



**Tuesday, August 4, 2020
5:00 PM**

**City Council
Tuesday Meeting Agenda**

**Jackie Dole Community Center
220 W. Front Street**

Call to Order

Call to Prayer and Pledge of Allegiance

Presentation Agenda

Agenda Adjustments

Add Routine Item #12

Authorize the publication of Request for Proposals for professional services related to disaster and pandemic response cost recovery and related grant and project management services associated with impacts from the ongoing COVID-19 Pandemic.

POLICY AGENDA

- 1. 2020-508** Approve the minutes for the July 20 and 21, 2020 meetings of the City Council.
- 2. 2020-491** Adopt Resolutions condemning the following properties as unclean and a menace to the health and safety of the community.
- 3. 2020-520** Adopt a Resolution setting Public Hearing on Tuesday, September 8, 2020 at 4:00 p.m. in the Jackie Dole Sherrill Community Center to determine if certain properties are in such a state of uncleanliness so as to be a menace to the health and safety of the community, according to the provision of MS Code 1972, Section 21-19-11.
- 4. 2020-529** Adopt a Resolution calling for a Special Election to be held on August 25, 2020 in the City of Hattiesburg for the Approval or Disapproval granting Non-Exclusive Electric Franchise to Mississippi power Company.
- 5. 2020-511** Adopt a Resolution declaring equipment surplus and authorize the disposal or sale of said equipment; authorize removal of equipment from the City inventory of the Department of Urban Development.

- 6. 2020-512** Adopt a Resolution declaring certain vehicles as surplus (per attached memo) and authorize sale of said vehicles at auction and remove from the City's inventory of the Department of Urban Development.
- 7. 2020-525** Adopt a Resolution authorizing Requisition No. 69 from the Project Fund Construction Account in connection with a certain loan agreement dated August 18, 2016, by and between the Mississippi Development Bank and the City of Hattiesburg.
- 8. 2020-505** Approve Supplemental Agreement No. 2 with Suncoast Infrastructure, Inc. for the Cured In Place Pipe Sewer Project In Various Locations Project to add work areas and calendar days to the existing project for a contract increase of \$291,918.20 and authorize the Mayor to execute in triplicate.
- 9. 2020-515** Approve Payment Application No. 3 and Final Payment to Wildstone Construction Services, LLC. in the amount of \$37,941.04 for construction services for the Hattiesburg Bus Stops project; Approve final acceptance of said project; and Authorize Publication of the Notice of Final Settlement of contract of said project.
- 10. 2020-524** Approve Agreement with the Natural Resources Conservation Services for an Emergency Watershed Protection (EWP) Project at Creekside Manor for a total cost of \$67,000.00 of which \$50,250.00 is Federally funded and \$16,750.00 is City funded and authorize the Mayor to execute any and all documents required for the project pre-application, application, and other required documents.
- 11. 2020-504** Approve Joint-Funding Agreement for the period of October 1, 2020 to September 30, 2021 to continue the cooperative program between the U.S. Geological Survey (USGS) and the City of Hattiesburg for the operation and maintenance of the Bouie River Flood Monitoring Site at Glendale Avenue, and for hydrologic modeling and development of inundation maps for the Leaf River, with total cost to the City of \$6,500.00 and authorize the Mayor to execute in duplicate.
- 12. 2020-510** Approve Cancellation of Deed of Trust from Karen Clark, Grantor, for property at 18 Annie Christie Drive, to City of Hattiesburg, Beneficiary, recorded in the Deed of Trust Book 1700 at Page 0503-0506 in the office of the Chancery Clerk of Forrest County, Mississippi, from a HOME-eligible buyer and authorize the Mayor to execute the same.
- 13. 2020-514** Approve renewal of contract (for one year) with Debristech, LLC for Debris Monitoring services in the event of a disaster and authorize the Mayor to execute in duplicate.
- 14. 2020-540** Approve renewal of Maintenance Agreement between the City of Hattiesburg and Pitney Bowes, Inc for a mail machine located in City Hall and authorize the Mayor to execute the same.

15. **2020-527** Approve a Service Agreement between the City of Hattiesburg and Harvard Pest Control for pest treatment at the Water Billing Office, in an amount not to exceed \$900.00 and authorize the Mayor to execute the same.
16. **2020-542** Approve Agreement between Mississippi State Fire Academy (MSFA) and the Hattiesburg Fire Department to provide the course for the NFPA 1001-I-II F and authorize the Mayor to execute the same.
17. **2020-530** Approve revised City of Hattiesburg Employee Handbook.
18. **2020-531** Approve the State Holiday Schedule as the City's holidays for the fiscal year 2020-2021 in accordance with MS Code 3-3-7, per attached list.
19. **2020-516** Approve and authorize issuance of manual checks for CDBG Program Claims for 303 JC Killingsworth Drive {Entitlement CDBG}.
20. **2020-519** Ratify and confirm the Mayor's appointment of Bernard Green (W3) to the Hattiesburg Board of Adjustment for a three-year term beginning August 8, 2020 and ending August 7, 2023.
21. **2020-518** Acknowledge bids received July 23, 2020 for the Hardy Street and Concart Street Drainage and Sidewalk Improvements Project and accept the bid from Gulf South Construction in the amount of \$355,925.80 for the Base Bid and Additive Alternate No. 1; Authorize Mayor to execute contracts upon preparation.
22. **2020-517** Acknowledge bids received July 23, 2020 for the Water Improvements Along Lincoln Road Project and accept the bid from C. B. Developers, Inc. in the amount of \$253,448.00; Authorize Mayor to execute contracts upon preparation.
23. **2020-507** Acknowledge bids received July 9, 2020 for the C.E. Roy Pathway Project and accept the bid from Gulf South Construction in the amount of \$178,118.73 for the Base Bid and Additive Alternate No. 1; Authorize Mayor to execute contracts upon preparation.
24. **2020-523** Acknowledge bids received July 23, 2020 for the Vehicular Wayfinding and Parking Signage Project and accept the bid from RJM McQueen Contracting, Inc. in the amount of \$69,097.74; Authorize Mayor to execute contracts upon preparation.

ROUTINE AGENDA

1. **2020-493** Authorize submission of a grant application to the National Endowment for the Arts (NEA) Grants for Arts Projects Program for funding to support the creation and installation of an outdoor sculpture, for a total project cost of \$200,000 (\$50,000 federal share and \$150,000 local share).
2. **2020-492** Authorize submission of a grant application to the Mississippi Arts Commission (MAC) Rapid Response Minigrant Program for funding to continue free virtual

programming in the Fall of 2020 with a 16-week public art workshop. The total project cost is \$2,000 (\$1,000 state share and \$1,000 local share).

3. **2020-494** Acknowledge receipt of a Drainage Release, executed by Terry L. Garner and Warren T. Hankins, for 4127 Lincoln Road.
4. **2020-497** Acknowledge Bids received July 23, 2020 in a reverse auction for Supervisory Control and Data Acquisition Units for the City Of Hattiesburg Water Department; Accept the bid from MD Electric in the amount of \$243,312.65.
5. **2020-509** Acknowledge receipt of the two-quote docket as provided for in 31-7-13(b) of the Mississippi Code of 1972
6. **2020-503** Approve and authorize publication of a Request for Proposals for service related to the provision of Job Access Reverse Commute services for Hub City Transit.
7. **2020-513** Approve Plans and Specifications for the Hardy Street Paving Project (21st Avenue to West Pine Street) and authorize advertisement for bids.
8. **2020-522** Approve Plans and Specifications for the Roadway Improvements on Highway 49, Camp Street, Adeline Street, and Mamie Street Project, Mississippi Department of Transportation State Aid Road Construction Project No. DECD-0018(35) BO and authorize advertisement for bids contingent upon Office of State Aid and Road Construction approval.
9. **2020-539** Approve Specifications and Authorize Publication for one (1) Twenty Yard Rear Loading Refuse Collection Truck for the City of Hattiesburg Public Works Department.
10. **2020-496** Approve the sale of grave spaces, per attached Memo's, Receipts, and Deeds.
11. **2020-526** Approve claims docket for the period ending July 31, 2020.
12. **2020-545** Authorize the publication of Request for Proposals for professional services related to disaster and pandemic response cost recovery and related grant and project management services associated with impacts from the ongoing COVID-19 Pandemic.

In Memoriam:

- **Mr. Lance Sanderford**
- **Representative Gene Saucier**
- **Senator Bob Dearing**
- **Mr. Alvin Eaton**
- **Mr. Ryan Locklear**
- **Ms. Rebecca Poston**

- **Ms. Flora Lofton Anderson**
- **Ms. Catherine Calbert Jones**
- **Mr. James “Bill” Watts**

Meeting Adjourn



Memorandum

To: Mayor Toby Barker and Members of City Council

From: Ronda Cole, Clerk of Council

cc:

Date: Tuesday, August 4, 2020

Re: Approve the minutes for the July 20 and 21, 2020 meetings of the City Council.
File Number: 2020-508
Minute Book #

Summary

According to Miss. Code Ann. § 21-15-33, "the minutes of every municipality must be adopted and approved by a majority of all the members of the governing body of the municipality at the next regular meeting or within thirty (30) days of the meeting thereof, whichever occurs first....."

Recommendation Statement

I recommend approval of the minutes.

Please place this on the August 4, 2020 City Council meeting for consideration.

Published Agenda



Monday, July 20, 2020	City Council	Jackie Dole Community Center
4:00 PM	Monday Meeting Agenda	220 W. Front Street

- Call to Order**
- Agenda Adjustments**
- Delete Policy Item #9 at the request of the Administration.

Agenda Review

Citizens' Forum

- Budget Presentation**
- Police Department
 - Engineering
 - Parks & Recreation

- Work Session**
- Personnel Director, presented by Councilwoman Delgado
 - Employee pay, presented by Councilwoman Delgado
 - Legislative Update, presented by Administration

Meeting Recess

Call to Order

BE IT REMEMBERED that the **Agenda Review meeting of the Hattiesburg City Council** was held at **4:00 p.m. Monday, July 20, 2020**, in Council Chambers at City Hall.

Those present included Mayor Toby Barker and members of the City Council Jeffrey George, Ward 1; Deborah Delgado, Ward 2; Carter Carroll, Ward 3; Mary Dryden, Ward 4; and Nicholas Brown, Ward 5. Others in attendance included City Attorney, Randy Pope; Clerk of Council, Ronda S. Cole; Deputy Clerk of Council, Lisa Luu; City staff members; media; and the public.

Council President Carroll Called the meeting to order.

Agenda Adjustments

- Delete Policy Agenda Item #9 at the request of the Administrations.

Agenda Review

Council President Carroll proceeded with the Agenda Review.

Following discussion of agenda items, Council President Carroll closed the Agenda Review.

Citizens' Forum

Council Vice President Dryden proceeded with the Citizens' Forum.

She stated the procedures and invited members of the public to speak.

The following citizens addressed the Council:

- David Rankin, 52 McCall Street
- Susan Hrostowski, 202 Beverly Lane
- Katherine Garner, 121 College Street

There were no other citizens present who wished to address the Council.

Council Vice President Dryden closed the Citizen Forum.

Budget Presentations

Council President Carroll proceeded with the Budget Presentations.

1.

2020-498

The Police Department Budget Presentation given by Chief Anthony Parker.

Attachments: [HPD Budget Presentation](#)
2.

2020-499

Engineering Budget Power Point Presentation given by Lamar Rutland, Director.

Attachments: [Engineering Department_TB](#)
3.

2020-500

Parks & Recreation Budget Power Point Presentation given by Chis McGee, Director.

Attachments: [21 Budget Slide](#)
[Parks Proposed 21 Budget](#)

Work Session

Council President Carroll proceeded with the Work Session, which included:

1.

2020-501

Personnel Director Overview, presented by Councilwoman Delgado.

Attachments: [DDD – HR MEMO](#)
2.

2020-502

Legislative Update, presented by Mayor Barker.

Meeting Recess

Council President Carroll declared the **meeting recessed at 6:12 p.m., this 20th day of July, 2020**, by unanimous consent, until the 21st day of July, 2020.

ATTEST:

APPROVE:

Clerk of Council

Council President

ATTEST AND CERTIFY:

APPROVE:

City Clerk

Mayor

Published Agenda



Tuesday, July 21, 2020
5:00 PM

City Council
Tuesday Meeting Agenda

Jackie Dole Community Center
220 W. Front Street

Call to Order

Call to Prayer and Pledge of Allegiance

Presentation Agenda

POLICY AGENDA

1. **2020-485** Approve the minutes for the July 6 & 7, 2020 meetings of the City Council.
2. **2020-477** Adopt an Ordinance requesting the Mississippi Legislature to amend Section 99-19-301 (1) of the Mississippi Code to include sexual orientation, gender identity and disability among the categories for which penalties may be enhanced and for related purposes.

3. **2020-478** Adopt an Ordinance for the petition filed by Terry Jackson, Jr., Applicant, and Tony Garino, LeHigh Hanson, Inc., Owner, to change the zoning classification for a certain property located at 119 Oak St. (Parcel 2-030L-11-138.01, PPIN 20306, Ward 2) from Section 4.5.3, R-1A (Single Family Residential) to Section 4.5.10, B-3 (Commercial Business) District. The Planning Commission recommended to Approve on July 1, 2020.
4. **2020-480** Adopt an Ordinance for the petition filed by Terry Jackson, Jr., Applicant, and Tony Garino, LeHigh Hanson, Inc., Owner, to close and vacate a portion of an undeveloped alley, which located north of East Hardy Street, south of Jersey Street, and to the east of Oak Street (Parcel 2-030L-11-138.01, PPIN 20306, Ward 2). The Planning Commission recommended to Approve on July 1, 2020.
5. **2020-479** Approve or Deny a petition filed by Terry Jackson, Jr., Applicant, and Tony Garino, LeHigh Hanson, Inc., Owner, to request a Conditional Use as “Warehousing and Distribution (Warehouse)” in B-3 (Commercial Business) District as defined by the LDC for a certain property located at 119 Oak Street (Parcel 2-030L-11-138.01, PPIN 20306, Ward 2). The Planning Commission recommended to Approve on July 1, 2020.
6. **2020-481** Adopt an Ordinance for the petition filed by Kenneth Moye, Representative and Bishop Arthur Cohens, Owner, to change the zoning classification for a certain property located at 103 Wisteria Drive (Parcel 2-038L-21-080.00, PPIN 39333, Ward 5) from Section 4.5.6, R-2 (Two Family Residential) District and to Section 4.5.7, R-3 (Multi-Family Residential) District. The Planning Commission recommended to Approve on July 1, 2020.
7. **2020-482** Approve or Deny a petition filed by Kenneth Moye, Representative and Bishop Arthur Cohens, Owner, to request a Conditional Use as “Places of Assembly not Otherwise Listed (Church)” in R-3 (Multi-Family Residential) District as defined by the LDC for certain properties located at 103 Wisteria Drive (Parcel 2-039I-20-008.00, PPIN 27137; Parcel 2-038L-21-080.00, PPIN 39333, Ward 5). The Planning Commission recommended to Approve on July 1, 2020.
8. **2020-483** Approve or Deny a petition filed by Robert St. John, Owner, to request a variance from Section 7.9.8.6 which states, “The maximum height of fences and walls shall be four feet above grade when located in a front yard. Otherwise the maximum height of a fence is eight feet” and instead allow for a ten (10) foot wall in the front yard for a variance of six (6) feet and a ten (10) foot wall in the side yard for a variance of two (2) feet for a proposed wall located at 3810 Hardy Street (Parcel 2-028M-07-076.01, PPIN 26450; Parcel 2-028M-07-074.00, PPIN 26449; Parcel 2-028M-07-020.00, PPIN 44632, Ward 3). The Board of Adjustment recommended to Approve on July 1, 2020.
9. **Deleted**

10. **2020-476** Adopt a Resolution authorizing Requisition No. 68 from the Project Fund Construction Account in connection with a certain loan agreement dated August 18, 2016, by and between the Mississippi Development Bank and the City of Hattiesburg.
11. **2020-470** Approve Agreement with Neel-Schaffer, Inc. for professional engineering services related to the Dynamic Message Sign Project and authorize the Mayor to execute it in triplicate.
12. **2020-471** Approve Lighting Agreement with Mississippi Power Company for additional lighting at the alley between 15th and 16th Avenues and Mamie and Adeline Streets for a monthly increase of

\$59.49 and authorize the Mayor to execute the same.

13. **2020-461** Approve Lighting Agreement with Mississippi Power Company for additional lighting at Franklin Street (Tuscan Avenue to Milton Barnes) for a monthly cost of \$169.27 and authorize the Mayor to execute the same.
14. **2020-486** Approve Lighting Agreement with Mississippi Power Company for additional lighting at 610 Ronie Street and 712 E. Second Street for a monthly increase of \$24.66 and authorize Mayor to execute the same.
15. **2020-468** Approve Lighting Agreement with Mississippi Power Company for additional lighting at Collins Street/Road (Edwards Street to Rouse Road) for a monthly increase of \$105.33 and authorize the Mayor to execute the same.
16. **2020-469** Approve Lighting Agreement with Mississippi Power Company for additional lighting at McCall Street (Edwards Street to Barkley Road) for a monthly cost of \$379.02 and authorize the Mayor to execute the same.
17. **2020-472** Approve Encroachment Agreement between and among the City of Hattiesburg, Raising Cane's Restaurants, LLC, and 100 Huevos De Raton, LLC; Authorize Mayor to execute in triplicate.
18. **2020-449** Approve Fire Protection Agreement between the City of Hattiesburg and the University of Southern Mississippi to provide fire protection and relates services for a one (1) year term, beginning July 1, 2020 and ending June 30, 2021, in the amount of \$95,652.00 and authorize the Mayor to execute the same.
19. **2020-489** Adopt a Resolution of the City Council of the City of Hattiesburg, Mississippi, affirming and supporting the Hattiesburg Police Department and for related purposes.
20. **2020-485** Approve Agreement between the City of Hattiesburg and University of Southern Mississippi to provide an education tuition discount partnership for education for full-time city employees of the Fire and Police Department and authorize the Mayor to execute the same.
21. **2020-484** Approve Agreement between the City of Hattiesburg and William Carey University to provide an education tuition discount partnership for education for full-time city employees of the Fire and Police Department and authorize the Mayor to execute the same.
22. **2020-460** Approve a Professional Services agreement with Grove Transportation Company of Mississippi for the continuation of the Job Access Reverse Commute service for a limited term, and authorize the Mayor to execute in duplicate.
23. **2020-459** Authorize acceptance of the award for the U.S. Department of Justice (DOJ), Office of Community Oriented Policing Services (COPS) Hiring Program to fund the hiring of four (4) additional police officers, for a total three-year cost of \$653,349 (\$490,012 federal share and \$163,337 local share).
24. **2020-462** Acknowledge the amended 2018-2022 Consolidated Plan and 2019 Action Plan, incorporating CDBG-CARES Act funding, as approved by the U.S. Department of Housing & Urban Development.
25. **2020-463** Acknowledge Federal Transit Administration award amendment MS-2016-007-02, incorporating an additional \$58,780 in Section 5339 federal funds for additional bus shelters and bus stop access improvements.
26. **2020-465** Acknowledge Federal Transit Administration award amendment MS-2017-003-01, incorporating an additional \$169,720 in Section 5307 federal funds for general preventive maintenance activities.
27. **2020-474** Approve and authorize issuance of manual checks for CDBG Program Claims per attached Memorandum. {Entitlement CDBG}.
28. **2020-475** Ratify and confirm the Mayor's re-appointment of James Trussell (W4) to the Hattiesburg Board of Adjustment for a three-year term beginning August 8, 2020 and ending August 7, 2023.

ROUTINE AGENDA

1. **2020-451** Adopt an order to approve the sale of a personal service weapon to retired Police Captain Ricky Myers pursuant to Mississippi Code Annotated 45-9-131.
2. **2020-452** Adopt an order to approve the sale of personal service weapon to retired Police Lieutenant Mark Denny pursuant to Mississippi Code Annotated 45-9-131.
3. **2020-453** Adopt an order to approve the sale of personal service weapon to retired Police Lieutenant Greg Holliman pursuant to Mississippi Code Annotated 45-9-131.
4. **2020-454** Acknowledge receipt of Privilege Tax License Monthly Reports for May and June 2020.
5. **2020-455** Acknowledge Proof of Publications for the month of June 2020.
6. **2020-448** Acknowledge receipt of a Drainage Release located at the William Carey University Health Sciences Building, 710 William Carey Parkway, executed by Grant Guthrie on behalf of William Carey University.

- 7. **2020-487** Acknowledge receipt of unadvertised bids for Hattiesburg Arts Center Rehab of Two (2) Bathrooms and Hallway (ADA) and accept the bid of B.W. Sullivan Building
- 8. **2020-464** Acknowledge bids received June 25, 2020 for the Sullivan Park Splash Pad project and reject all bids.
- 9. **2020-456** Approve specifications for one (1) or more new single axle dump truck(s) for the City of Hattiesburg Public Works Department; Authorize advertisement of same.
- 10. **2020-457** Approve specifications and authorize advertisement for one (1) New Hydraulic Mini Excavator with Swing Boom for the City of Hattiesburg Public Works Department.
- 11. **2020-450** Approve the sale of grave spaces, per attached Memo's, Receipts and Deeds.
- 12. **2020-458** Approve claims docket for the period ending July 17, 2020.

In Memoriam:

- **Mr. Alfred McGee**
- **Ms. Margaret Robertson Leday**
- **Mr. Dwayne Robertson**
- **Mrs. Sarah Hewes**
- **U. S. Representative John Lewis**
- **Mrs. Celia Hawthorne Felts**
- **Mrs. Tia Jones-Hinton**
- **Mr. Willie Ray Jones**
- **Mr. Roy Ferrell**
- **Dr. Bill Franklin Scaggs**

Meeting Recess

Call to Order

BE IT REMEMBERED that the **regular meeting of the Hattiesburg City Council was held at 5:00 p.m. Tuesday, July 21, 2020**, in Council Chambers at City Hall.

Those present included Mayor Toby Barker and members of the City Council Jeffrey George, Ward 1; Deborah Delgado, Ward 2; Carter Carroll, Ward 3; Mary Dryden, Ward 4; and Nicholas Brown, Ward 5. Others in attendance included City Attorney, Randy Pope; Clerk of Council, Ronda S. Cole; Deputy Clerk of Council, Lisa Luu; City staff members; media; and the public.

Council President Carroll Called the meeting to order.

Call to Prayer and Pledge of Allegiance

The prayer was given by Council Member Brown.

The Pledge of Allegiance was led by Council President Carroll.

Presentation Agenda

The PRESENTATION AGENDA came before the Council.

There were no presentations at this time.

Agenda Adjustments:

A MOTION was made by Council Member Delgado and seconded by Council Member Brown to Add

Policy Agenda Item #29, at the request of the City Council.

There being no discussion, the Motion received the affirmative vote of the Council as follows:

Yeas: 5 – George, Delgado, Carroll, Dryden and Brown

Nays: 0

POLICY AGENDA

The POLICY AGENDA came before the Council.

1. **2020-485** Approve the minutes for the July 6 and 7, 2020 meeting of the City Council.

Attachments: 7-6-2020 Unsafe PH, AR, WS Mins.
7-7-2020 Mins.

A MOTION was made by Council Member George and seconded by Council Member Brown to Approve the minutes for the July 6 and 7, 2020 meeting of the City Council.

There being no discussion, the Motion received the affirmative vote of the Council as follows:

Yeas: 5 - George, Delgado, Carroll, Dryden and Brown

Nays: 0

2. **2020-477** Adopt an Ordinance requesting the Mississippi Legislature to amend Section 99-19-301 (1) of the Mississippi Code to include sexual orientation, gender identity and disability among the categories for which penalties may be enhanced and for related purposes.

Attachments: Hate Crimes Ordinance

A MOTION was made by Council Member George and seconded by Council Vice President Dryden to Adopt an Ordinance (#3276) requesting the Mississippi Legislature to amend Section 99-19-301 (1) of the Mississippi Code to include sexual orientation, gender identity and disability among the categories for which penalties may be enhanced and for related purposes.

There being no discussion, the Motion received the affirmative vote of the Council as follows:

Yeas: 5 - George, Delgado, Carroll, Dryden and Brown

Nays: 0

3. **2020-478** Adopt an Ordinance for the petition filed by Terry Jackson, Jr., Applicant, and Tony Garino, LeHigh Hanson, Inc., Owner, to change the zoning classification for a certain property located at 119 Oak St. (Parcel 2-030L-11-138.01, PPIN 20306, Ward 2) from Section 4.5.3, R-1A (Single Family Residential) to Section 4.5.10, B-3 (Commercial Business) District. The Planning Commission recommended to Approve on July 1, 2020.

Attachments: hpc item a july 2020
JULY HPC Minutes
Ordinance - 119 Oak St

A MOTION was made by Council Member George and seconded by Council Member Delgado to Adopt an Ordinance (#3277) for the petition filed by Terry Jackson, Jr., Applicant, and Tony Garino, LeHigh Hanson, Inc., Owner, to change the zoning classification for a certain property located at 119 Oak St. (Parcel 2-030L-11-138.01, PPIN 20306, Ward 2) from Section 4.5.3, R-1A (Single Family Residential) to Section 4.5.10, B-3

(Commercial Business) District. The Planning Commission recommended to Approve on July 1, 2020.

There being no discussion, the Motion received the affirmative vote of the Council as follows:

Yeas: 5 - George, Delgado, Carroll, Dryden and Brown

Nays: 0

- 4. 2020-480** Adopt an Ordinance for the petition filed by Terry Jackson, Jr., Applicant, and Tony Garino, LeHigh Hanson, Inc., Owner, to close and vacate a portion of an undeveloped alley, which located north of East Hardy Street, south of Jersey Street, and to the east of Oak Street (Parcel 2-030L-11-138.01, PPIN 20306, Ward 2). The Planning Commission recommended to Approve on July 1, 2020.

Attachments: [hpc item c july 2020](#)
[Ordinance - Vacate Alley Oak St E Hardy](#)
[JULY HPC Minutes](#)

A MOTION was made by Council Member George and seconded by Council Member Brown to Adopt an Ordinance (#3278) for the petition filed by Terry Jackson, Jr., Applicant, and Tony Garino, LeHigh Hanson, Inc., Owner, to close and vacate a portion of an undeveloped alley, which located north of East Hardy Street, south of Jersey Street, and to the east of Oak Street (Parcel 2-030L-11-138.01, PPIN 20306, Ward 2). The Planning Commission recommended to Approve on July 1, 2020.

There being no discussion, the Motion received the affirmative vote of the Council as follows:

Yeas: 5 - George, Delgado, Carroll, Dryden and Brown

Nays: 0

- 5. 2020-479** Approve or Deny a petition filed by Terry Jackson, Jr., Applicant, and Tony Garino, LeHigh Hanson, Inc., Owner, to request a Conditional Use as "Warehousing and Distribution (Warehouse)" in B-3 (Commercial Business) District as defined by the LDC for a certain property located at 119 Oak Street (Parcel 2-030L-11-138.01, PPIN 20306, Ward 2). The Planning Commission recommended to Approve on July 1, 2020.

Attachments: [JULY HPC Minutes](#)
[hpc item b july 2020](#)

A MOTION was made by Council Member George and seconded by Council Member Delgado to Approve a petition filed by Terry Jackson, Jr., Applicant, and Tony Garino, LeHigh Hanson, Inc., Owner, to request a Conditional Use as "Warehousing and Distribution (Warehouse)" in B-3 (Commercial Business) District as defined by the LDC for a certain property located at 119 Oak Street (Parcel 2-030L-11-138.01, PPIN 20306, Ward 2). The Planning Commission recommended to Approve on July 1, 2020.

There being no discussion, the Motion received the affirmative vote of the Council as follows:

Yeas: 5 - George, Delgado, Carroll, Dryden and Brown

Nays: 0

- 6. 2020-481** Adopt an Ordinance for the petition filed by Kenneth Moye, Representative and Bishop Arthur Cohens, Owner, to change the zoning classification for a certain property located at 103 Wisteria Drive (Parcel 2-038L-21-080.00, PPIN 39333, Ward 5) from Section 4.5.6, R-2 (Two Family Residential) District and to Section 4.5.7, R-3 (Multi-Family Residential) District. The Planning Commission recommended to Approve on July 1, 2020.

Attachments: [hpc item d july 2020](#)
[Ordinance - 103 Wisteria](#)
[JULY HPC Minutes](#)

A MOTION was made by Council Member Brown and seconded by Council Member George to Adopt

an Ordinance (#3279) for the petition filed by Kenneth Moye, Representative and Bishop Arthur Cohens, Owner, to change the zoning classification for a certain property located at 103 Wisteria Drive (Parcel 2-038L-21-080.00, PPIN 39333, Ward 5) from Section 4.5.6, R-2 (Two Family Residential) District and to Section 4.5.7, R-3 (Multi-Family Residential) District. The Planning Commission recommended to Approve on July 1, 2020.

There being no discussion, the Motion received the affirmative vote of the Council as follows:

Yeas: 5 - George, Delgado, Carroll, Dryden and Brown

Nays: 0

7. **2020-482** Approve or Deny a petition filed by Kenneth Moye, Representative and Bishop Arthur Cohens, Owner, to request a Conditional Use as “Places of Assembly not Otherwise Listed (Church)” in R-3 (Multi-Family Residential) District as defined by the LDC for certain properties located at 103 Wisteria Drive (Parcel 2-039I-20-008.00, PPIN 27137; Parcel 2-038L-21-080.00, PPIN 39333, Ward 5). The Planning Commission recommended to Approve on July 1, 2020.

Attachments: [hpc item e july 2020](#)
[JULY HPC Minutes](#)

A MOTION was made by Council Member Brown and seconded by Council Vice President Dryden to Approve a petition filed by Kenneth Moye, Representative and Bishop Arthur Cohens, Owner, to request a Conditional Use as “Places of Assembly not Otherwise Listed (Church)” in R-3 (Multi-Family Residential) District as defined by the LDC for certain properties located at 103 Wisteria Drive (Parcel 2-039I-20-008.00, PPIN 27137; Parcel 2-038L-21-080.00, PPIN 39333, Ward 5). The Planning Commission recommended to Approve on July 1, 2020.

There being no discussion, the Motion received the affirmative vote of the Council as follows:

Yeas: 5 - George, Delgado, Carroll, Dryden and Brown

Nays: 0

8. **2020-483** Approve or Deny a petition filed by Robert St. John, Owner, to request a variance from Section 7.9.8.6 which states, “The maximum height of fences and walls shall be four feet above grade when located in a front yard. Otherwise the maximum height of a fence is eight feet” and instead allow for a ten (10) foot wall in the front yard for a variance of six (6) feet and a ten (10) foot wall in the side yard for a variance of two (2) feet for a proposed wall located at 3810 Hardy Street (Parcel 2-028M-07-076.01, PPIN 26450; Parcel 2-028M-07-074.00, PPIN 26449; Parcel 2-028M-07-020.00, PPIN 44632, Ward 3). The Board of Adjustment recommended to Approve on July 1, 2020.

Attachments: [boa item a july 2020](#)
[July BOA Minutes](#)
[El Rayo Powerpoint](#)

A MOTION was made by Council Member George and seconded by Council Vice President Dryden to Approve a petition filed by Robert St. John, Owner, to request a variance from Section 7.9.8.6 which states, “The maximum height of fences and walls shall be four feet above grade when located in a front yard. Otherwise the maximum height of a fence is eight feet” and instead allow for a ten (10) foot wall in the front yard for a variance of six (6) feet and a ten (10) foot wall in the side yard for a variance of two (2) feet for a proposed wall located at 3810 Hardy Street (Parcel 2-028M-07-076.01, PPIN 26450; Parcel 2-028M-07-074.00, PPIN 26449; Parcel 2-028M-07-020.00, PPIN 44632, Ward 3). The Board of Adjustment recommended to Approve on July 1, 2020.

There being no discussion, the Motion received the affirmative vote of the Council as follows:

Yeas: 5 - George, Delgado, Carroll, Dryden and Brown

Nays: 0

9. Deleted

10. 2020-476 Adopt a Resolution authorizing Requisition No. 68 from the Project Fund Construction Account in connection with a certain loan agreement dated August 18, 2016, by and between the Mississippi Development Bank and the City of Hattiesburg.

Attachments: 2016 Bond Resolution No. 68
Project Resolution Requisition 2016 Bonds No. 68

A MOTION was made by Council Vice President Dryden and seconded by Council Member George to Adopt a Resolution (#2020-206) authorizing Requisition No. 68 from the Project Fund Construction Account in connection with a certain loan agreement dated August 18, 2016, by and between the Mississippi Development Bank and the City of Hattiesburg.

There being no discussion, the Motion received the affirmative vote of the Council as follows:

Yeas: 5 - George, Delgado, Carroll, Dryden and Brown

Nays: 0

11. 2020-470 Approve Agreement with Neel-Schaffer, Inc. for professional engineering services related to the Dynamic Message Sign Project and authorize the Mayor to execute it in triplicate.

Attachments: Neel-Schaffer Agreement

A MOTION was made by Council Vice President Dryden and seconded by Council Member Brown to Approve Agreement with Neel-Schaffer, Inc. for professional engineering services related to the Dynamic Message Sign Project and authorize the Mayor to execute it in triplicate.

There being no discussion, the Motion received the affirmative vote of the Council as follows:

Yeas: 5 - George, Delgado, Carroll, Dryden and Brown

Nays: 0

12. 2020-471 Approve Lighting Agreement with Mississippi Power Company for additional lighting at the alley between 15th and 16th Avenues and Mamie and Adeline Streets for a monthly increase of \$59.49 and authorize the Mayor to execute the same.

Attachments: Street Lighting Authorization-Alley Between 15th and 16th Avenues and Mamie and Adeline Streets

A MOTION was made by Council Vice President Dryden and seconded by Council Member George to Approve Lighting Agreement with Mississippi Power Company for additional lighting at the alley between 15th and 16th Avenues and Mamie and Adeline Streets for a monthly increase of \$59.49 and authorize the Mayor to execute the same.

There being no discussion, the Motion received the affirmative vote of the Council as follows:

Yeas: 5 - George, Delgado, Carroll, Dryden and Brown

Nays: 0

13. 2020-461 Approve Lighting Agreement with Mississippi Power Company for additional lighting at Franklin Street (Tuscan Avenue to Milton Barnes) for a monthly cost of \$169.27 and authorize the Mayor to execute the same.

Attachments: Street Light Authorization and Calculation Sheet-Franklin Street

A MOTION was made by Council Member George and seconded by Council Member Brown to Approve Lighting Agreement with Mississippi Power Company for additional lighting at Franklin Street (Tuscan Avenue to Milton Barnes) for a monthly cost of \$169.27 and authorize the Mayor to execute the same.

There being no discussion, the Motion received the affirmative vote of the Council as follows:

Yeas: 5 - George, Delgado, Carroll, Dryden and Brown

Nays: 0

14. **2020-486** Approve Lighting Agreement with Mississippi Power Company for additional lighting at 610 Ronie Street and 712 E. Second Street for a monthly increase of \$24.66 and authorize Mayor to execute the same.

Attachments: MS Power City of Hattiesburg SL Auth form E Second and Ronie St

A MOTION was made by Council Member Delgado and seconded by Council Vice President Dryden to Approve Lighting Agreement with Mississippi Power Company for additional lighting at 610 Ronie Street and 712 E. Second Street for a monthly increase of \$24.66 and authorize Mayor to execute the same.

There being no discussion, the Motion received the affirmative vote of the Council as follows:

Yeas: 5 - George, Delgado, Carroll, Dryden and Brown

Nays: 0

15. **2020-468** Approve Lighting Agreement with Mississippi Power Company for additional lighting at Collins Street/Road (Edwards Street to Rouse Road) for a monthly increase of \$105.33 and authorize the Mayor to execute the same.

Attachments: Street Lighting Authorization and Calculation Sheet-Collins Street

A MOTION was made by Council Member George and seconded by Council Member Brown to Approve Lighting Agreement with Mississippi Power Company for additional lighting at Collins Street/Road (Edwards Street to Rouse Road) for a monthly increase of \$105.33 and authorize the Mayor to execute the same.

There being no discussion, the Motion received the affirmative vote of the Council as follows:

Yeas: 5 - George, Delgado, Carroll, Dryden and Brown

Nays: 0

16. **2020-469** Approve Lighting Agreement with Mississippi Power Company for additional lighting at McCall Street (Edwards Street to Barkley Road) for a monthly cost of \$379.02 and authorize the Mayor to execute the same.

Attachments: Street Lighting Authorization and Calculation Sheet-McCall Street

A MOTION was made by Council Member Brown and seconded by Council Member George to Approve Lighting Agreement with Mississippi Power Company for additional lighting at McCall Street (Edwards Street to Barkley Road) for a monthly cost of \$379.02 and authorize the Mayor to execute the same.

There being no discussion, the Motion received the affirmative vote of the Council as follows:

Yeas: 5 - George, Delgado, Carroll, Dryden and Brown

Nays: 0

17. **2020-472** Approve Encroachment Agreement between and among the City of Hattiesburg, Raising Cane's Restaurants, LLC, and 100 Huevos De Raton, LLC; Authorize Mayor to execute in triplicate.

Attachments: Raising Cane's - Encroachment Agreement - Partial Signatures

A MOTION was made by Council Member George and seconded by Council Vice President Dryden to Approve Encroachment Agreement between and among the City of Hattiesburg, Raising Cane's Restaurants, LLC, and 100 Huevos De Raton, LLC; Authorize Mayor to execute in triplicate.

There being no discussion, the Motion received the affirmative vote of the Council as follows:

Yeas: 5 - George, Delgado, Carroll, Dryden and Brown

Nays: 0

- 18. 2020-449** Approve Fire Protection Agreement between the City of Hattiesburg and the University of Southern Mississippi to provide fire protection and relates services for a one (1) year term, beginning July 1, 2020 and ending June 30, 2021, in the amount of \$95,652.00 and authorize the Mayor to execute the same.

Attachments: USM 2020

A MOTION was made by Council Member George and seconded by Council Vice President Dryden to Approve Fire Protection Agreement between the City of Hattiesburg and the University of Southern Mississippi to provide fire protection and relates services for a one (1) year term, beginning July 1, 2020 and ending June 30, 2021, in the amount of \$95,652.00 and authorize the Mayor to execute the same.

There being no discussion, the Motion received the affirmative vote of the Council as follows:

Yeas: 5 - George, Delgado, Carroll, Dryden and Brown

Nays: 0

- 19. 2020-489** Adopt a Resolution of the City Council of the City of Hattiesburg, Mississippi, affirming and supporting the Hattiesburg Police Department and for related purposes.

Attachments: HPD Resolution_Final_MD (002)

A MOTION was made by Council Vice President Dryden and seconded by Council Member George to Adopt a Resolution of the City Council of the City of Hattiesburg, Mississippi, affirming and supporting the Hattiesburg Police Department and for related purposes.

There being no discussion, the Motion received the affirmative vote of the Council as follows:

Yeas: 5 - George, Delgado, Carroll, Dryden and Brown

Nays: 0

- 20. 2020-485** Approve Agreement between the City of Hattiesburg and University of Southern Mississippi to provide an education tuition discount partnership for education for full-time city employees of the Fire and Police Department and authorize the Mayor to execute the same.

Attachments: MOU - Employment Education Agreement w/ USM 7-7-20 SIGNED

A MOTION was made by Council Member George and seconded by Council Vice President Dryden to Approve Agreement between the City of Hattiesburg and University of Southern Mississippi to provide an education tuition discount partnership for education for full-time city employees of the Fire and Police Department and authorize the Mayor to execute the same.

Following discussion, the Motion received the affirmative vote of the Council as follows:

Yeas: 5 - George, Delgado, Carroll, Dryden and Brown

Nays: 0

- 21. 2020-484** Approve Agreement between the City of Hattiesburg and William Carey University to provide an education tuition discount partnership for education for full-time city employees of the Fire and Police Department and authorize the Mayor to execute the same.

Attachments: MOU - Employment Education Agreement w/ William Carey 7-7-20 SIGNED

A MOTION was made by Council Vice President Dryden and seconded by Council Member George to Approve Agreement between the City of Hattiesburg and William Carey University to provide an education tuition discount partnership for education for full-time city employees of the Fire and Police Department and authorize the Mayor to execute the same.

Following discussion, the Motion received the affirmative vote of the Council as follows:

Yeas: 5 - George, Delgado, Carroll, Dryden and Brown

Nays: 0

- 22. 2020-460** Approve a Professional Services agreement with Grove Transportation Company of Mississippi for the continuation of the Job Access Reverse Commute service for a limited term, and authorize the Mayor to execute in duplicate.

Attachments: Professional Services - JARC - 7-2020

A MOTION was made by Council Vice President Dryden and seconded by Council Member Brown to Approve a Professional Services agreement with Grove Transportation Company of Mississippi for the continuation of the Job Access Reverse Commute service for a limited term, and authorize the Mayor to execute in duplicate.

There being no discussion, the Motion received the affirmative vote of the Council as follows:

Yeas: 5 - George, Delgado, Carroll, Dryden and Brown

Nays: 0

- 23. 2020-459** Authorize acceptance of the award for the U.S. Department of Justice (DOJ), Office of Community Oriented Policing Services (COPS) Hiring Program to fund the hiring of four (4) additional police officers, for a total three-year cost of \$653,349 (\$490,012 federal share and \$163,337 local share).

Attachments: ORI MS01801 - Award 2020UMWX0429 - Award package

A MOTION was made by Council Vice President Dryden and seconded by Council Member Brown to Authorize acceptance of the award for the U.S. Department of Justice (DOJ), Office of Community Oriented Policing Services (COPS) Hiring Program to fund the hiring of four (4) additional police officers, for a total three-year cost of \$653,349 (\$490,012 federal share and \$163,337 local share).

There being no discussion, the Motion received the affirmative vote of the Council as follows:

Yeas: 5 - George, Delgado, Carroll, Dryden and Brown

Nays: 0

- 24. 2020-462** Acknowledge the amended 2018-2022 Consolidated Plan and 2019 Action Plan, incorporating CDBG-CARES Act funding, as approved by the U.S. Department of Housing & Urban Development.

Attachments: Con Plan As Amended for CDBG-CV - 5-2020
 2019 Action Plan As Amended - 5-2020

A MOTION was made by Council Member George and seconded by Council Member Brown to Acknowledge the amended 2018-2022 Consolidated Plan and 2019 Action Plan, incorporating CDBG-CARES Act funding, as approved by the U.S. Department of Housing & Urban Development.

There being no discussion, the Motion received the affirmative vote of the Council as follows:

Yeas: 5 - George, Delgado, Carroll, Dryden and Brown

Nays: 0

- 25. 2020-463** Acknowledge Federal Transit Administration award amendment MS-2016-007-02, incorporating an additional \$58,780 in Section 5339 federal funds for additional bus shelters and bus stop access improvements.

Attachments: View Print Application - MS-2016-007-02

A MOTION was made by Council Vice President Dryden and seconded by Council Member Brown to Acknowledge Federal Transit Administration award amendment MS-2016-007-02, incorporating an additional \$58,780 in Section 5339 federal funds for additional bus shelters and bus stop access improvements.

There being no discussion, the Motion received the affirmative vote of the Council as follows:

Yeas: 5 - George, Delgado, Carroll, Dryden and Brown

Nays: 0

- 26. 2020-465** Acknowledge Federal Transit Administration award amendment MS-2017-003-01, incorporating an additional \$169,720 in Section 5307 federal funds for general preventive maintenance activities.

Attachments: View Print Application - MS-2017-003-01

A MOTION was made by Council Member George and seconded by Council Vice President Dryden to Acknowledge Federal Transit Administration award amendment MS-2017-003-01, incorporating an additional \$169,720 in Section 5307 federal funds for general preventive maintenance activities.

There being no discussion, the Motion received the affirmative vote of the Council as follows:

Yeas: 5 - George, Delgado, Carroll, Dryden and Brown

Nays: 0

- 27. 2020-474** Approve and authorize issuance of manual checks for CDBG Program Claims per attached Memorandum. {Entitlement CDBG}

Attachments: Manual Check Memo_07212020
 Hollimon_735 Longstreet_FINAL

A MOTION was made by Council Member Brown and seconded by Council Member George to Approve and authorize issuance of manual checks for CDBG Program Claims per attached Memorandum. {Entitlement CDBG}.

There being no discussion, the Motion received the affirmative vote of the Council as follows:

Yeas: 5 - George, Delgado, Carroll, Dryden and Brown

Nays: 0

28.

2020-475

Ratify and confirm the Mayor’s re-appointment of James Trussell (W4) to the Hattiesburg Board of Adjustment for a three-year term beginning August 8, 2020 and ending August 7, 2023.
- Attachments: [Data sheet James Trussell BOA 2020](#)

A MOTION was made by Council Vice President Dryden and seconded by Council Member George to Ratify and confirm the Mayor’s re-appointment of James Trussell (W4) to the Hattiesburg Board of Adjustment for a three-year term beginning August 8, 2020 and ending August 7, 2023.

There being no discussion, the Motion received the affirmative vote of the Council as follows:

Yeas: 5 - George, Delgado, Carroll, Dryden and Brown

Nays: 0

29.

2020-495

Adopt a Resolution of the City Council of the City of Hattiesburg, Mississippi, confirming support and showing appreciation to the employees of the City of Hattiesburg, Mississippi and for related purposes.
- Attachments: [Resolution city employee appreciation](#)

A MOTION was made by Council Member Delgado and seconded by Council Member Brown to Adopt a Resolution (#2020-208) of the City Council of the City of Hattiesburg, Mississippi, confirming support and showing appreciation to the employees of the City of Hattiesburg, Mississippi and for related purposes.

There being no discussion, the Motion received the affirmative vote of the Council as follows:

Yeas: 5 - George, Delgado, Carroll, Dryden and Brown

Nays: 0

ROUTINE AGENDA

THE ROUTINE AGENDA came before the Council.

A MOTION was made by Council Member George and seconded by Council Vice President Dryden to approve the Routine Agenda.

There being no discussion, the Motion received the affirmative vote of the Council as follows:

Yeas: 5 - George, Delgado, Carroll, Dryden and Brown

Nays: 0

1.

2020-451

Adopt an order to approve the sale of a personal service weapon to retired Police Captain Ricky Myers pursuant to Mississippi Code Annotated 45-9-131.
- Attachments: [Captain Myers Service Weapon](#)
2.

2020-452

Adopt an order to approve the sale of personal service weapon to retired Police Lieutenant Mark Denny pursuant to Mississippi Code Annotated 45-9-131.
- Attachments: [Lt. Mark Denny's Service Weapon](#)
3.

2020-453

Adopt an order to approve the sale of personal service weapon to retired Police Lieutenant Greg Holliman pursuant to Mississippi Code Annotated 45-9-131.

Attachments: Lt. Greg Holliman's Service Weapon

4. **2020-454** Acknowledge receipt of Privilege Tax License Monthly Reports for May and June 2020.

Attachments: Privilege Tax Lic Report June 2020
Privilege Tax Lic Report May 2020
5. **2020-455** Acknowledge Proof of Publications for the month of June 2020.

Attachments: Proof of Publication Clarion Ledger June 2020
Proof of Publication Hub City Spokes June 2020
6. **2020-448** Acknowledge receipt of a Drainage Release located at the William Carey University Health Sciences Building, 710 William Carey Parkway, executed by Grant Guthrie on behalf of William Carey University.

Attachments: Drainage Release William Carey University Health Sciences Building
7. **2020-487** Acknowledge receipt of unadvertised bids for Hattiesburg Arts Center Rehab of Two (2) Bathrooms and Hallway (ADA) and accept the bid of B.W. Sullivan Building

Attachments: 20200716102116
8. **2020-464** Acknowledge bids received June 25, 2020 for the Sullivan Park Splash Pad project and reject all bids.

Attachments: Certified Bid Tab
Recommendation Letter
9. **2020-456** Approve specifications for one (1) or more new single axle dump truck(s) for the City of Hattiesburg Public Works Department; Authorize advertisement of same.

Attachments: NOTICE TO BIDDER- Dump Truck
Specs- Dump Truck- PW
10. **2020-457** Approve specifications and authorize advertisement for one (1) New Hydraulic Mini Excavator with Swing Boom for the City of Hattiesburg Public Works Department.

Attachments: Excavator with Swing Boom
EXCAVATOR WITH SWING BOOM
11. **2020-450** Approve the sale of grave spaces, per attached Memo's, Receipts and Deeds.

Attachments: Memo's (07-21-2020)
Receipts (07-21-2020)
Deeds (07-21-2020)
12. **2020-458** Approve claims docket for the period ending July 17, 2020.

Attachments: Docket 7.17.20

In Memoriam:

A MOTION was made by Council President Carroll to Adjourn the meeting in memory of:

- Mr. Alfred McGee
- Ms. Margaret Robertson Leday
- Mr. Dwayne Robertson
- Mrs. Sarah Hewes
- U. S. Representative John Lewis
- Mrs. Celia Hawthorne Felts
- Mrs. Tia Jones-Hinton
- Mr. Willie Ray Jones
- Mr. Roy Ferrell
- Dr. Bill Franklin Scaggs

Meeting Adjourn

Council President Carroll declared the **meeting adjourned 5:18 p.m., this 21st day of July, 2020**, by unanimous consent, until the 3rd day of August, 2020.

ATTEST:

APPROVE:

Clerk of Council

Council President

ATTEST AND CERTIFY:

APPROVE:

City Clerk

Mayor



Memorandum

To: Mayor Toby Barker and Members of City Council

From: Andrew Ellard, Director

cc: Wiley Quinn, Code Enforcement Division Manager

Date: Tuesday, August 4, 2020

Re: Adopt Resolutions condemning the following properties as unclean and a menace to the health and safety of the community.
File Number: 2020-491
Minute Book #

Summary

Adopt Resolutions of Condemnation 8 4 2020

Recommendation Statement

I recommend the adoption of resolutions determining that the properties listed in the following attachments are in such a state of uncleanliness so as to be a menace to the health and safety of the community.

Please place this on the August 4, 2020 City Council meeting for consideration.



MAYOR
Toby Barker

COUNCIL - WARD ONE
Jeffrey George

COUNCIL - WARD TWO
Deborah Denard Delgado

COUNCIL - WARD THREE
Carter Carroll

COUNCIL - WARD FOUR
Mary Dryden

COUNCIL - WARD FIVE
Nicholas Brown

MEMORANDUM

TO: Mayor and City Council

FROM: Wiley Quinn, Code Enforcement Division Manager

DATE: August 4, 2020

RE: Adopt Condemnation Resolutions

I recommend the adoption of resolutions determining the following properties are in such a state of uncleanliness so as to be a menace to the health and safety of the community.

	Address	PPIN	Ward	Violations	Proposed Actions	Estimated Cost	Estimated Penalty
1.	3403 Pearl St.	23147	1	TREES	REMOVE	\$3500	\$1750
2.	111 Midway Ave.	24612	2	VS, US, OGL	Cut/Clean, Demo	\$3000	\$1500
3.	1407 Deason Ave.	22426	2	OGL, VS, ES, T&L, ID	Demo, Clean	\$2500	\$1500
4.	1211 Cherry St.	13583	2	VS, AS, ES, OGL	Close, Clean, Secure, Condemn	\$500	\$1500
5.	607 Graymont Ave.	24991	4	OGL, AS	Close, Clean, Secure	\$250	\$1500
6.	807 Railroad St.	19256	4	VS, US	Demo	\$5000	\$2500

7.	546 W. 4 th St. AKA 100 South St.	19728	4	US, US	Demo	\$9000	\$4500
8.	307 4 th Ave	19384	4	VS, TREE, GAR/RUB	Tree Removed	\$3000	\$1500
9.	725 Barkley Rd.	11029	5	AB, DB, OGL, X2	Demo	\$3000	\$1500
10.	1103 Johnston St.	6917	5	AB, DB	Demo	\$3000	\$1500

Garbage & Rubbish=GAR/RUB
 Dilapidated Building=DB
 Dangerous Structure=DS
 Imminent Danger=ID
 Overgrown Lot=OGL
 Open Storage=OS
 Unsafe Structure=US
 Abandoned Vehicle=AV
 Abandoned Structure=AS
 Vacant Structure=VS
 Owner Responsibility=OR

Prepared by:
City of Hattiesburg
Code Enforcement Division
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898

Return to:
City of Hattiesburg
City Clerk's Office
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898

**RESOLUTION
CONDEMNATION OF UNSAFE AND DILAPIDATED PROPERTY**

Case #1 3403 Pearl St.

WHEREAS, on the 7th day of July, 2020, the Council of the City of Hattiesburg, Mississippi, passed a resolution announcing the intention of the City Council to hold a hearing on the 3rd day of August, 2020, in the Jackie Dole Sherrill Community Center in Hattiesburg, Mississippi, as provided by Section 21-19-11 of the Mississippi Code of 1972, as annotated and amended, to determine whether or not the following described property is in such a state of uncleanness as to be a menace to the health and safety of the community, to-wit:

The East Five (5) feet of Lots 13 and 14 and the West Seventy (70) feet of Lots 15 and 16 and all that part of the vacated alley lying between said lots, all being Block Sixteen (16) of the Pinecrest Second Survey of Hattiesburg, Forrest County, Mississippi as per map or plat thereof on file in the office of the Chancery Clerk of Forrest County, Mississippi, together with the improvements and appurtenances thereunto belonging.

WHEREAS, the owner of the property is Roderick & Dorothy Wells, 3403 Pearl St., Hattiesburg, MS 39401, Mark S. Lansdale, 95 Tower Road, Hattiesburg, MS 39401

WHEREAS, proper and timely notice of said hearing was given to said parties more than two weeks prior to the date of the hearing; and

WHEREAS, at said hearing it was determined that the aforementioned property is in such a state of uncleanness as to be a menace to the health and safety of the community and should be condemned.

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Hattiesburg, Mississippi, as follows:

1. A period of fifteen (15) days shall be extended to the property owner for removal of the violations listed:

Removal of Hazardous Trees (Code of Ordinance #324.8 Section 4.2)

2. If the property owners do not take corrective action within fifteen (15) days to remove the violations, then after a complete and final legal review of the property conducted by the City Attorney, the City will take action to remove all violations listed, said work to be legally contracted with a private contractor or City crews, and the cost of same plus penalty to be certified to the City Clerk for further legal Disposition.

3. A copy of this Resolution will be certified and recorded in the Chancery Clerk's Office of Forrest County, Mississippi.

The above and foregoing Resolution, after having been first reduced to writing, was introduced by Council member _____ seconded by Council member _____, and was adopted by the following vote, to-wit:

YEAS:

NAYS:

ABSENT:

The motion having received the affirmative vote of a majority of the Council members present, the President declared the motion carried and the resolution adopted, on this the 4th day of August, 2020.

(SEAL)

ATTEST:

ADOPTED:

CLERK OF COUNCIL

PRESIDENT

The above and foregoing Resolution having been submitted to and approved by the Mayor, this the 4th day of August, 2020.

ATTEST:

APPROVED:

CITY CLERK

MAYOR

Prepared by:
City of Hattiesburg
Code Enforcement Division
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898

Return to:
City of Hattiesburg
City Clerk's Office
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898

**RESOLUTION
CONDEMNATION OF UNSAFE AND DILAPIDATED PROPERTY**

Case #2 111 Midway Avenue

WHEREAS, on the 7th day of July, 2020, the Council of the City of Hattiesburg, Mississippi, passed a resolution announcing the intention of the City Council to hold a hearing on the 3rd day of August, 2020, in the Jackie Dole Sherrill Community Center in Hattiesburg, Mississippi, as provided by Section 21-19-11 of the Mississippi Code of 1972, as annotated and amended, to determine whether or not the following described property is in such a state of uncleanness as to be a menace to the health and safety of the community, to-wit:

Lot 10, Block 1 of the Wayside Subdivision of the City of Hattiesburg, Forrest County, MS

WHEREAS, the owner of the property is Eddie & Laura Davis, 1285 Mannbrook Dr., Stone Mountain, GA 30083, 1209 Colony Dr., Ponoma, CA 91766

WHEREAS, proper and timely notice of said hearing was given to said parties more than two weeks prior to the date of the hearing; and

WHEREAS, at said hearing it was determined that the aforementioned property is in such a state of uncleanness as to be a menace to the health and safety of the community and should be condemned.

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Hattiesburg, Mississippi, as follows:

1. A period of fifteen (15) days shall be extended to the property owner for removal of the violations listed:

Abandoned and Unsafe Structure (International Property Maintenance Code 108.1.5.7), Vacant Structure (International Property Maintenance Code 301.3), Overgrown Lot or Weeds (International Property Code 302.4)

2. If the property owners do not take corrective action within fifteen (15) days to remove the violations, then after a complete and final legal review of the property conducted by the City Attorney, the City will take action to remove all violations listed, said work to be legally contracted with a private contractor or City crews, and the cost of same plus penalty to be certified to the City Clerk for further legal Disposition.

3. A copy of this Resolution will be certified and recorded in the Chancery Clerk's Office of Forrest County, Mississippi.

The above and foregoing Resolution, after having been first reduced to writing, was introduced by Council member _____ seconded by Council member _____, and was adopted by the following vote, to-wit:

YEAS:

NAYS:

ABSENT:

The motion having received the affirmative vote of a majority of the Council members present, the President declared the motion carried and the resolution adopted, on this the 4th day of August, 2020.

(SEAL)

ATTEST:

ADOPTED:

CLERK OF COUNCIL

PRESIDENT

The above and foregoing Resolution having been submitted to and approved by the Mayor, this the 4th day of August, 2020.

ATTEST:

APPROVED:

CITY CLERK

MAYOR

Prepared by:
City of Hattiesburg
Code Enforcement Division
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898

Return to:
City of Hattiesburg
City Clerk's Office
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898

**RESOLUTION
CONDEMNATION OF UNSAFE AND DILAPIDATED PROPERTY**

Case #3 1407 Deason Avenue

WHEREAS, on the 7th day of July, 2020, the Council of the City of Hattiesburg, Mississippi, passed a resolution announcing the intention of the City Council to hold a hearing on the 3rd day of August, 2020, in the Jackie Dole Sherrill Community Center in Hattiesburg, Mississippi, as provided by Section 21-19-11 of the Mississippi Code of 1972, as annotated and amended, to determine whether or not the following described property is in such a state of uncleanness as to be a menace to the health and safety of the community, to-wit:

Lot 5 Block 9 of the Omega Subdivision or Addition to the City of Hattiesburg, MS, according to the map and plat thereof on file in the office of the Chancery Clerk of Forrest County, MS, together with the improvements thereon and appurtenances thereunto belonging.

WHEREAS, the owner of the property is Albert E. & Nannie Pearl Jones c/o Larry Hinton, 1105 Country Club Road, Hattiesburg, MS 39401, 14801 Dunwood Valley Dr. Bowie, MD 20721

WHEREAS, proper and timely notice of said hearing was given to said parties more than two weeks prior to the date of the hearing; and

WHEREAS, at said hearing it was determined that the aforementioned property is in such a state of uncleanness as to be a menace to the health and safety of the community and should be condemned.

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Hattiesburg, Mississippi, as follows:

1. A period of fifteen (15) days shall be extended to the property owner for removal of the violations listed:

Overgrown Lot or Weeds (International Property Code 302.4), Vacant Structure (International Property Maintenance Code 301.3), Imminent Danger (International Property Maintenance Code 109.1)

2. If the property owners do not take corrective action within fifteen (15) days to remove the violations, then after a complete and final legal review of the property conducted by the City Attorney, the City will take action to remove all violations listed, said work to be legally contracted with a private contractor or City crews, and the cost of same plus penalty to be certified to the City Clerk for further legal Disposition.

3. A copy of this Resolution will be certified and recorded in the Chancery Clerk's Office of Forrest County, Mississippi.

The above and foregoing Resolution, after having been first reduced to writing, was introduced by Council member _____ seconded by Council member _____, and was adopted by the following vote, to-wit:

YEAS:

NAYS:

ABSENT:

The motion having received the affirmative vote of a majority of the Council members present, the President declared the motion carried and the resolution adopted, on this the 4th day of August, 2020.

(SEAL)

ATTEST:

ADOPTED:

CLERK OF COUNCIL

PRESIDENT

The above and foregoing Resolution having been submitted to and approved by the Mayor, this the 4th day of August, 2020.

ATTEST:

APPROVED:

CITY CLERK

MAYOR

Prepared by:
City of Hattiesburg
Code Enforcement Division
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898

Return to:
City of Hattiesburg
City Clerk's Office
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898

**RESOLUTION
CONDEMNATION OF UNSAFE AND DILAPIDATED PROPERTY**

Case #4 1211 Cherry St.

WHEREAS, on the 7th day of July, 2020, the Council of the City of Hattiesburg, Mississippi, passed a resolution announcing the intention of the City Council to hold a hearing on the 3rd day of August, 2020, in the Jackie Dole Sherrill Community Center in Hattiesburg, Mississippi, as provided by Section 21-19-11 of the Mississippi Code of 1972, as annotated and amended, to determine whether or not the following described property is in such a state of uncleanness as to be a menace to the health and safety of the community, to-wit:

Begin at the Southeast corner of Lot 12 of Block 13 of the Burkett Subdivision of Hattiesburg, Forrest County, Mississippi and run thence North 130 feet, thence run West 175 feet, thence run South 130 feet, thence run East 175 feet to the point of beginning, said parcel of land being the South 130 feet of Lots 11 and 13 and the South 130 feet of the East one-half of Lot 10 of said Block 13 of the Burkett Subdivision.

WHEREAS, the owner of the property is Henry & Mary Murphy, 422 Miller St., Hattiesburg, MS 39401

WHEREAS, proper and timely notice of said hearing was given to said parties more than two weeks prior to the date of the hearing; and

WHEREAS, at said hearing it was determined that the aforementioned property is in such a state of uncleanness as to be a menace to the health and safety of the community and should be condemned.

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Hattiesburg, Mississippi, as follows:

1. A period of fifteen (15) days shall be extended to the property owner for removal of the violations listed:

Overgrown Lot or Weeds (International Property Code 302.4), Abandoned and Unsafe Structure (International Property Maintenance Code 108.1.5.7), Vacant Structure (International Property Maintenance Code 301.3)

2. If the property owners do not take corrective action within fifteen (15) days to remove the violations, then after a complete and final legal review of the property conducted by the City Attorney, the City will take action to remove all violations listed, said work to be legally contracted with a private contractor or City crews, and the cost of same plus penalty to be certified to the City Clerk for further legal Disposition.

3. A copy of this Resolution will be certified and recorded in the Chancery Clerk's Office of Forrest County, Mississippi.

The above and foregoing Resolution, after having been first reduced to writing, was introduced by Council member _____ seconded by Council member _____, and was adopted by the following vote, to-wit:

YEAS:

NAYS:

ABSENT:

The motion having received the affirmative vote of a majority of the Council members present, the President declared the motion carried and the resolution adopted, on this the 4th day of August, 2020.

(SEAL)

ATTEST:

ADOPTED:

CLERK OF COUNCIL

PRESIDENT

The above and foregoing Resolution having been submitted to and approved by the Mayor, this the 4th day of August, 2020.

ATTEST:

APPROVED:

CITY CLERK

MAYOR

Prepared by:
City of Hattiesburg
Code Enforcement Division
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898

Return to:
City of Hattiesburg
City Clerk's Office
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898

**RESOLUTION
CONDEMNATION OF UNSAFE AND DILAPIDATED PROPERTY**

Case #5 607 Graymont Avenue

WHEREAS, on the 7th day of July, 2020, the Council of the City of Hattiesburg, Mississippi, passed a resolution announcing the intention of the City Council to hold a hearing on the 3rd day of August, 2020, in the Jackie Dole Sherrill Community Center in Hattiesburg, Mississippi, as provided by Section 21-19-11 of the Mississippi Code of 1972, as annotated and amended, to determine whether or not the following described property is in such a state of uncleanness as to be a menace to the health and safety of the community, to-wit:

Lot 2, Block 1 of the Westview Subdivision, A subdivision according to a map of plat thereof which is on file and of record in the office of The Chancery Clerk of Forrest County, Mississippi, in plat book 8 at page 31; together with all improvements thereon and appurtenances thereunto belonging.

WHEREAS, the owner of the property is The Bank of New York c/o HOMEQ, P. O. Box 13909, Durham, NC 27709-3909, Trustmark National Bank P. O. Box 1071, Hattiesburg, MS 39403, Jeffrey & Elma Griffin #10 Delond Place Hattiesburg, MS 39402

WHEREAS, proper and timely notice of said hearing was given to said parties more than two weeks prior to the date of the hearing; and

WHEREAS, at said hearing it was determined that the aforementioned property is in such a state of uncleanness as to be a menace to the health and safety of the community and should be condemned.

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Hattiesburg, Mississippi, as follows:

1. A period of fifteen (15) days shall be extended to the property owner for removal of the violations listed:

Overgrown Lot or Weeds (International Property Code 302.4), Abandoned and Unsafe Structure (International Property Maintenance Code 108.1.5.7)

2. If the property owners do not take corrective action within fifteen (15) days to remove the violations, then after a complete and final legal review of the property conducted by the City Attorney, the City will take action to remove all violations listed, said work to be legally contracted with a private contractor or City crews, and the cost of same plus penalty to be certified to the City Clerk for further legal Disposition.

3. A copy of this Resolution will be certified and recorded in the Chancery Clerk's Office of Forrest County, Mississippi.

The above and foregoing Resolution, after having been first reduced to writing, was introduced by Council member _____ seconded by Council member _____, and was adopted by the following vote, to-wit:

YEAS:

NAYS:

ABSENT:

The motion having received the affirmative vote of a majority of the Council members present, the President declared the motion carried and the resolution adopted, on this the 4th day of August, 2020.

(SEAL)

ATTEST:

ADOPTED:

CLERK OF COUNCIL

PRESIDENT

The above and foregoing Resolution having been submitted to and approved by the Mayor, this the 4th day of August, 2020.

ATTEST:

APPROVED:

CITY CLERK

MAYOR

Prepared by:
City of Hattiesburg
Code Enforcement Division
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898

Return to:
City of Hattiesburg
City Clerk's Office
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898

**RESOLUTION
CONDEMNATION OF UNSAFE AND DILAPIDATED PROPERTY**

Case #6 807 Railroad St.

WHEREAS, on the 7th day of July, 2020, the Council of the City of Hattiesburg, Mississippi, passed a resolution announcing the intention of the City Council to hold a hearing on the 3rd day of August, 2020, in the Jackie Dole Sherrill Community Center in Hattiesburg, Mississippi, as provided by Section 21-19-11 of the Mississippi Code of 1972, as annotated and amended, to determine whether or not the following described property is in such a state of uncleanness as to be a menace to the health and safety of the community, to-wit:

POB SW/CR LOT S BLK 137 NE 100FT NW 75FT SW25FT NW75FT SW 75FT SE150FT TO
POB ALL IN BLK 137 KAMPER & WHINNERY EXT 2

WHEREAS, the owner of the property is Maryanne Ezell, 807 Railroad St., Hattiesburg, MS 39401, Tower Loan of Hattiesburg, 6333 Highway 49 Ste. 30, Hattiesburg, MS 39401

WHEREAS, proper and timely notice of said hearing was given to said parties more than two weeks prior to the date of the hearing; and

WHEREAS, at said hearing it was determined that the aforementioned property is in such a state of uncleanness as to be a menace to the health and safety of the community and should be condemned.

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Hattiesburg, Mississippi, as follows:

1. A period of fifteen (15) days shall be extended to the property owner for removal of the violations listed:

Unsafe Structures or Equipment (International Fire Code 110.1.1), Vacant Structure (International Property Maintenance Code 301.3)

2. If the property owners do not take corrective action within fifteen (15) days to remove the violations, then after a complete and final legal review of the property conducted by the City Attorney, the City will take action to remove all violations listed, said work to be legally contracted with a private contractor or City crews, and the cost of same plus penalty to be certified to the City Clerk for further legal Disposition.

3. A copy of this Resolution will be certified and recorded in the Chancery Clerk's Office of Forrest County, Mississippi.

The above and foregoing Resolution, after having been first reduced to writing, was introduced by Council member _____ seconded by Council member _____, and was adopted by the following vote, to-wit:

YEAS:

NAYS:

ABSENT:

The motion having received the affirmative vote of a majority of the Council members present, the President declared the motion carried and the resolution adopted, on this the 4th day of August, 2020.

(SEAL)

ATTEST:

ADOPTED:

CLERK OF COUNCIL

PRESIDENT

The above and foregoing Resolution having been submitted to and approved by the Mayor, this the 4th day of August, 2020.

ATTEST:

APPROVED:

CITY CLERK

MAYOR

Prepared by:
City of Hattiesburg
Code Enforcement Division
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898

Return to:
City of Hattiesburg
City Clerk's Office
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898

**RESOLUTION
CONDEMNATION OF UNSAFE AND DILAPIDATED PROPERTY**

Case #7 546 W. 4th aka 100 South St.

WHEREAS, on the 7th day of July, 2020, the Council of the City of Hattiesburg, Mississippi, passed a resolution announcing the intention of the City Council to hold a hearing on the 3rd day of August, 2020, in the Jackie Dole Sherrill Community Center in Hattiesburg, Mississippi, as provided by Section 21-19-11 of the Mississippi Code of 1972, as annotated and amended, to determine whether or not the following described property is in such a state of uncleanness as to be a menace to the health and safety of the community, to-wit:

A part of Block "B" beginning 140 feet North of the Southwest corner of Lot 11, Block "B" and thence run East 79 feet; thence North 17 feet; thence West 79 feet; thence South 17 Feet back to the point of beginning, all located in Block "B", John Kamper subdivision, City of Hattiesburg, Forrest.

WHEREAS, the owner of the property is Nathaniel & Felicia Hibbler, 100 South St., Hattiesburg, MS 39401

WHEREAS, proper and timely notice of said hearing was given to said parties more than two weeks prior to the date of the hearing; and

WHEREAS, at said hearing it was determined that the aforementioned property is in such a state of uncleanness as to be a menace to the health and safety of the community and should be condemned.

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Hattiesburg, Mississippi, as follows:

1. A period of fifteen (15) days shall be extended to the property owner for removal of the violations listed:

Unsafe Structures or Equipment (International Fire Code 110.1.1), Vacant Structure (International Property Maintenance Code 301.3)

2. If the property owners do not take corrective action within fifteen (15) days to remove the violations, then after a complete and final legal review of the property conducted by the City Attorney, the City will take action to remove all violations listed, said work to be legally contracted with a private contractor or City crews, and the cost of same plus penalty to be certified to the City Clerk for further legal Disposition.

3. A copy of this Resolution will be certified and recorded in the Chancery Clerk's Office of Forrest County, Mississippi.

The above and foregoing Resolution, after having been first reduced to writing, was introduced by Council member _____ seconded by Council member _____, and was adopted by the following vote, to-wit:

YEAS:

NAYS:

ABSENT:

The motion having received the affirmative vote of a majority of the Council members present, the President declared the motion carried and the resolution adopted, on this the 4th day of August, 2020.

(SEAL)

ATTEST:

ADOPTED:

CLERK OF COUNCIL

PRESIDENT

The above and foregoing Resolution having been submitted to and approved by the Mayor, this the 4th day of August, 2020.

ATTEST:

APPROVED:

CITY CLERK

MAYOR

Prepared by:
City of Hattiesburg
Code Enforcement Division
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898

Return to:
City of Hattiesburg
City Clerk's Office
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898

**RESOLUTION
CONDEMNATION OF UNSAFE AND DILAPIDATED PROPERTY**

Case #8 307 4th Avenue

WHEREAS, on the 7th day of July, 2020, the Council of the City of Hattiesburg, Mississippi, passed a resolution announcing the intention of the City Council to hold a hearing on the 3rd day of August, 2020, in the Jackie Dole Sherrill Community Center in Hattiesburg, Mississippi, as provided by Section 21-19-11 of the Mississippi Code of 1972, as annotated and amended, to determine whether or not the following described property is in such a state of uncleanness as to be a menace to the health and safety of the community, to-wit:

Commence at the point of intersection of the Northwesterly boundary line of Corinne Street with the Northeasterly boundary line of Fourth Avenue and run thence in a Northwesterly direction along the Northeasterly boundary line of Fourth Avenue of 100 feet to the Point of Beginning; thence run Northeasterly parallel with Corinne Street for 150 feet; thence run in a Northwesterly direction at right angles to said last named course for 100 feet to the Southeasterly boundary line of the alley intersection said Block 149; run thence in a Southwesterly direction along the Southeasterly direction along the Northeasterly boundary line of Fourth Avenue for 100 feet to the Point of Beginning, the same being located in a part of the Northeast Quarter of the Southeast Quarter (NE ¼ of SE ¼) of Section 9, Township 4 North, Range 13 West, Forrest County, Mississippi; together with all improvements thereon and appurtenances thereunto belonging.

WHEREAS, the owner of the property is Anthony and Judy Bell, 307 4th Avenue, Hattiesburg, MS 39401, 5744 Linda Vista Rd., San Diego, CA 92110

WHEREAS, proper and timely notice of said hearing was given to said parties more than two weeks prior to the date of the hearing; and

WHEREAS, at said hearing it was determined that the aforementioned property is in such a state of uncleanness as to be a menace to the health and safety of the community and should be condemned.

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Hattiesburg, Mississippi, as follows:

1. A period of fifteen (15) days shall be extended to the property owner for removal of the violations listed:

Removal of Hazardous Trees (Code of Ordinance #324.8 Section 4.2)

2. If the property owners do not take corrective action within fifteen (15) days to remove the violations, then after a complete and final legal review of the property conducted by the City Attorney, the City will take action to remove all violations listed, said work to be legally contracted with a private contractor or City crews, and the cost of same plus penalty to be certified to the City Clerk for further legal Disposition.

3. A copy of this Resolution will be certified and recorded in the Chancery Clerk's Office of Forrest County, Mississippi.

The above and foregoing Resolution, after having been first reduced to writing, was introduced by Council member _____ seconded by Council member _____, and was adopted by the following vote, to-wit:

YEAS:

NAYS:

ABSENT:

The motion having received the affirmative vote of a majority of the Council members present, the President declared the motion carried and the resolution adopted, on this the 4th day of August, 2020.

(SEAL)

ATTEST:

ADOPTED:

CLERK OF COUNCIL

PRESIDENT

The above and foregoing Resolution having been submitted to and approved by the Mayor, this the 4th day of August, 2020.

ATTEST:

APPROVED:

CITY CLERK

MAYOR

Prepared by:
City of Hattiesburg
Code Enforcement Division
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898

Return to:
City of Hattiesburg
City Clerk's Office
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898

**RESOLUTION
CONDEMNATION OF UNSAFE AND DILAPIDATED PROPERTY**

Case #9 725 Barkley Road

WHEREAS, on the 7th day of July, 2020, the Council of the City of Hattiesburg, Mississippi, passed a resolution announcing the intention of the City Council to hold a hearing on the 3rd day of August, 2020, in the Jackie Dole Sherrill Community Center in Hattiesburg, Mississippi, as provided by Section 21-19-11 of the Mississippi Code of 1972, as annotated and amended, to determine whether or not the following described property is in such a state of uncleanness as to be a menace to the health and safety of the community, to-wit:

A part to Lot 1 Block 1 of D.E. McInnis Subdivision of the City of Hattiesburg, in the County of Forrest, State of Mississippi and being more particularly described as Commencing at the Southeast corner of said Lot 1, thence run North 89 degrees 59 minutes 12 seconds West along the South line of said Lot 1 for 212.41 feet, thence run North 88 degrees 28 minutes 11 seconds West along the said South line for 250.99 feet to the Point of Beginning; thence continue North 88 degrees 28 minutes 11 seconds West along the said South line for 310.96 feet, thence run North 01 degree 12 minutes 50 seconds East for 210 feet, thence sun South 88 degrees 38 minutes 53 East for 49.64 feet, thence run North 01 degrees 37 minutes 47 seconds East 444.52, thence run South 89 degrees 16 minutes 22 seconds East fir 250.45 feet, thence run South 00 degrees 33 seconds 03 minutes West 659.15 feet, to the Point of N=Beginning. (4.26 acres MOL)

WHEREAS, the owner of the property is Larry B. Pritchard, 27 Coyote Place, Apt., 202, Dakota Dunes, SD 57049, 725 Barkley Road, Hattiesburg, MS 39401, Concordia Bank & Trust, 498 Main St., Woodville, MS 39669

WHEREAS, proper and timely notice of said hearing was given to said parties more than two weeks prior to the date of the hearing; and

WHEREAS, at said hearing it was determined that the aforementioned property is in such a state of uncleanness as to be a menace to the health and safety of the community and should be condemned.

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Hattiesburg, Mississippi, as follows:

1. A period of fifteen (15) days shall be extended to the property owner for removal of the violations listed:

Dilapidated Building (International Property Maintenance Code 304.1), Overgrown Lot or Weeds (International Property Code 302.4)x2, Abandoned and Unsafe Structure (International Property Maintenance Code 108.1.5.7)

2. If the property owners do not take corrective action within fifteen (15) days to remove the violations, then after a complete and final legal review of the property conducted by the City Attorney, the City will take action to remove all violations listed, said work to be legally contracted with a private contractor or City crews, and the cost of same plus penalty to be certified to the City Clerk for further legal Disposition.

3. A copy of this Resolution will be certified and recorded in the Chancery Clerk's Office of Forrest County, Mississippi.

The above and foregoing Resolution, after having been first reduced to writing, was introduced by Council member _____ seconded by Council member _____, and was adopted by the following vote, to-wit:

YEAS:

NAYS:

ABSENT:

The motion having received the affirmative vote of a majority of the Council members present, the President declared the motion carried and the resolution adopted, on this the 4th day of August, 2020.

(SEAL)

ATTEST:

ADOPTED:

CLERK OF COUNCIL

PRESIDENT

The above and foregoing Resolution having been submitted to and approved by the Mayor, this the 4th day of August, 2020.

ATTEST:

APPROVED:

CITY CLERK

MAYOR

Prepared by:
City of Hattiesburg
Code Enforcement Division
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898

Return to:
City of Hattiesburg
City Clerk's Office
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898

**RESOLUTION
CONDEMNATION OF UNSAFE AND DILAPIDATED PROPERTY**

Case #10 1103 Johnston St.

WHEREAS, on the 7th day of July, 2020, the Council of the City of Hattiesburg, Mississippi, passed a resolution announcing the intention of the City Council to hold a hearing on the 3rd day of August, 2020, in the Jackie Dole Sherrill Community Center in Hattiesburg, Mississippi, as provided by Section 21-19-11 of the Mississippi Code of 1972, as annotated and amended, to determine whether or not the following described property is in such a state of uncleanness as to be a menace to the health and safety of the community, to-wit:

Beginning at the Northeast Corner of the Northeast Quarter (NE ¼) of the Northeast Quarter (NE ¼) of Section 27, Township 4 North, Range 13 West, Forrest, County, Mississippi; and run thence South 635 feet to and for the Point of Beginning; thence Continue South 75 feet; thence West 150 feet; thence North 75 feet; thence East 150 feet to the Point of Beginning.

WHEREAS, the owner of the property is Gwenevere Pugh, 209 Sheeplo Loop, Petal, MS 39465

WHEREAS, proper and timely notice of said hearing was given to said parties more than two weeks prior to the date of the hearing; and

WHEREAS, at said hearing it was determined that the aforementioned property is in such a state of uncleanness as to be a menace to the health and safety of the community and should be condemned.

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Hattiesburg, Mississippi, as follows:

1. A period of fifteen (15) days shall be extended to the property owner for removal of the violations listed:

Dilapidated Building (International Property Maintenance Code 304.1), Abandoned and Unsafe Structure (International Property Maintenance Code 108.1.5.7)

2. If the property owners do not take corrective action within fifteen (15) days to remove the violations, then after a complete and final legal review of the property conducted by the City Attorney, the City will take action to remove all violations listed, said work to be legally contracted with a private contractor or City crews, and the cost of same plus penalty to be certified to the City Clerk for further legal Disposition.

3. A copy of this Resolution will be certified and recorded in the Chancery Clerk's Office of Forrest County, Mississippi.

The above and foregoing Resolution, after having been first reduced to writing, was introduced by Council member _____ seconded by Council member _____, and was adopted by the following vote, to-wit:

YEAS:

NAYS:

ABSENT:

The motion having received the affirmative vote of a majority of the Council members present, the President declared the motion carried and the resolution adopted, on this the 4th day of August, 2020.

(SEAL)

ATTEST:

ADOPTED:

CLERK OF COUNCIL

PRESIDENT

The above and foregoing Resolution having been submitted to and approved by the Mayor, this the 4th day of August, 2020.

ATTEST:

APPROVED:

CITY CLERK

MAYOR



Memorandum

To: Mayor Toby Barker and Members of City Council

From: Andrew Ellard, Director

cc: Wiley Quinn, Code Enforcement Division Manager

Date: Tuesday, August 4, 2020

Re: Adopt a Resolution setting Public Hearing on Tuesday, September 8, 2020 at 4:00 p.m. in the Jackie Dole Sherrill Community Center to determine if certain properties are in such a state of uncleanliness so as to be a menace to the health and safety of the community, according to the provision of MS Code 1972, Section 21-19-11.
File Number: 2020-520
Minute Book #

Summary

Set Public Hearing 9 8 2020, Unsafe Properties

Recommendation Statement

I recommend the Setting of a Public Hearing to determine if certain properties are a menace to the health and safety of the community.

Please place this on the August 4, 2020 City Council meeting for consideration.

Prepared by:
City of Hattiesburg
Code Enforcement
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898

Return to:
City of Hattiesburg
City Clerk's Office
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898

RESOLUTION

WHEREAS, complaint has been made to the City of Hattiesburg, Mississippi, that the following properties to wit:

	Address	PPIN	Ward	Violations
1.	726 N. 19 th Avenue	14859	2	VS, DS, ID
2.	810 Whitney St.	25605	2	AS, VS, OGL
3.	535 W. 4 th St.	14464	2	DS, VS
4.	814 Atlanta St.	25711	2	AS, DS, OGL
5.	100 W 4 th St.	14580	2	VS
6.	406 S 11 th Avenue	17149	4	GAR/RUB, US
7.	301 S 17 TH Avenue	16234	4	GAR/RUB, VS, US

are in such a state of uncleanness so as to be a menace to the health and safety of the community;
and

WHEREAS, it is in the public interest that the City Council, on its own motion, hold hearings as provided by Section 21-19-11 of the Mississippi Code of 1972, as annotated and amended, to determine whether or not the above properties are in such a state of uncleanness so as to be a menace to the health and safety of the community.

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Hattiesburg, Mississippi, that the owners of the above-described properties be notified, as provided by law, of a hearing to be held by the City Council in the Jackie Dole Sherrill Community Center in Hattiesburg, Mississippi, at 4:00 p.m. on Tuesday, September 8, 2020, to determine whether or not the above- described properties are in such a state of uncleanness so as to be a menace to the health and safety of the community.

The above and foregoing Resolution, having been first reduced to writing, was introduced by Council member _____, seconded by Council member _____, and was adopted by the following vote, to-wit:

YEAS:

NAYS:

ABSENT:

The President thereby declared the motion carried and the resolution adopted, this the 4th day of August, 2020.

(SEAL)

ATTEST:

ADOPTED:

CLERK OF COUNCIL

PRESIDENT

The above and foregoing Resolution, having been submitted to and approved by the Mayor, this the 4th day of August, 2020.

ATTEST:

APPROVED:

CITY CLERK

MAYOR



MAYOR
Toby Barker

COUNCIL - WARD ONE
Jeffrey George

COUNCIL - WARD TWO
Deborah Denard Delgado

COUNCIL - WARD THREE
Carter Carroll

COUNCIL - WARD FOUR
Mary Dryden

COUNCIL - WARD FIVE
Nicholas Brown

MEMORANDUM

TO: Mayor and City Council

FROM: Wiley Quinn, Code Enforcement Manager

DATE: August 4, 2020

RE: Set Public Hearing

The Code Enforcement Division requests that the City Council hold a Public Hearing on Tuesday, September 8, 2020 to determine if the following properties are in such a state of uncleanliness so as to be a menace to the health and safety of the community, according to the provisions of MS Code 1972, Section 21-19-11.

	Address	PPIN	Ward	Violations	Proposed Actions	Estimated Cost	Estimated Penalty
1.	726 N. 19 th Avenue	14859	2	VS, DS, ID	Demo	\$4464	\$1500
2.	810 Whitney St.	25605	2	AS, VS, OGL	Cut/Clean, Demo	\$3344	\$1500
3.	535 W. 4 th St.	14464	2	DS, VS	Cut/Clean, Demo, Secure	\$5112	\$1500
4.	814 Atlanta St.	25711	2	AS, DS, OGL	Demo, Cut/Clean	\$3436	\$1500
5.	100 W 4 th St.	14580	2	VS	Close, Clean, Secure	\$1000	\$1500

6.	406 S 11 th Avenue	17149	4	GAR/RUB, US	Demo	\$5368	\$1500
7.	301 S 17 TH Avenue	16234	4	GAR/RUB, VS, US	Demo & Clear	\$6000	\$3000

Garbage & Rubbish=GAR/RUB
 Dilapidated Building=DB
 Dangerous Structure=DS
 Imminent Danger=ID
 Overgrown Lot=OGL
 Open Storage=OS
 Unsafe Structure=US
 Abandoned Vehicle=AV
 Abandoned Structure=AS
 Vacant Structure=VS
 Owner Responsibility=OR



Memorandum

To: Mayor Toby Barker and Members of City Council

From:

cc:

Date: Tuesday, August 4, 2020

Re: Adopt a Resolution calling for a Special Election to be held on August 25, 2020 in the City of Hattiesburg for the Approval or Disapproval granting Non-Exclusive Electric Franchise to Mississippi power Company.
File Number: 2020-529
Minute Book #

Summary

Recommendation Statement

Please place this on the August 4, 2020 City Council meeting for consideration.

There came on for consideration at a duly constituted meeting of the Mayor and Members of the City Council of the City of Hattiesburg, Mississippi, held on the 4th day of August, 2020, the following Resolution:

RESOLUTION 2020-

A RESOLUTION CALLING A SPECIAL ELECTION TO BE HELD IN THE MUNICIPALITY OF HATTIESBURG, MISSISSIPPI, ON THE 25TH DAY OF AUGUST, 2020, FOR THE PURPOSE OF SUBMITTING TO THE QUALIFIED ELECTORS OF THE MUNICIPALITY OF HATTIESBURG, MISSISSIPPI, THE APPROVAL OR DISAPPROVAL OF THE ACTION OF THE CITY COUNCIL IN ADOPTING ON THE 7TH DAY OF JULY, 2020, AN ORDINANCE GRANTING NON-EXCLUSIVE ELECTRIC FRANCHISE TO MISSISSIPPI POWER COMPANY, ITS SUCCESSORS, AND ASSIGNS A FRANCHISE IN THE MUNICIPALITY OF HATTIESBURG, MISSISSIPPI.

WHEREAS, on the 16TH day of June, 2020, at a regular meeting of the City Council of Hattiesburg, Mississippi, an ordinance was introduced entitled “AN ORDINANCE GRANTING A NON-EXCLUSIVE ELECTRIC FRANCHISE TO MISSISSIPPI POWER COMPANY, ITS SUCCESSORS, AND ASSIGNS, IN THE MUNICIPALITY OF HATTIESBURG, MISSISSIPPI,” which said ordinance has, pursuant to an order of this body, remained on file for public inspection for two weeks as provided by law; and

WHEREAS, on the 7th day of July 2020, the said ordinance was passed by said City Council in the form in which it was introduced, subject to publication thereof as provided by law and subject to the approval by the majority of the qualified electors voting thereon at a special election as provided for by law; and

WHEREAS, the City Council find that it is necessary to call a special election in order to refer the action of the City Council in the passage of the said ordinance to the approval or disapproval of the electors of said Municipality of Hattiesburg; and

WHEREAS, it is provided by law that whenever any measure or ordinance is to be referred to the qualified electors of the municipality for their approval or disapproval, it shall be the duty of the City Council to have such measure or ordinance printed in at least one daily or weekly newspaper published for at least once a week for three weeks next preceding the date of the special election in a newspaper published in such municipality; and

WHEREAS, Hub City Spokes is a newspaper published in the Municipality of Hattiesburg, Mississippi.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the Municipality of Hattiesburg, County of Forrest, State of Mississippi, as follows:

SECTION 1. That a special election shall be held in one (1) municipal precinct in the Municipality of Hattiesburg, Mississippi, on the 25th day of August, 2020, for the purpose of submitting to the qualified electors of the Municipality of Hattiesburg, Mississippi, for their approval or disapproval, the action of the City Council in adopting an ordinance entitled, “AN ORDINANCE GRANTING A NON-EXCLUSIVE ELECTRIC FRANCHISE TO MISSISSIPPI POWER COMPANY, ITS SUCCESSORS, AND ASSIGNS, IN THE MUNICIPALITY OF HATTIESBURG, MISSISSIPPI.”

SECTION 2. That the said election shall be held at one (1) voting place precinct and within the hours prescribed by law.

SECTION 3. That the Election Commissioners of the Municipality of Hattiesburg, Mississippi, shall cause to be prepared a ballot to be used in said special election in substantially the following form:

PROPOSITION

Do you approve or disapprove the action of the City Council of the Municipality of Hattiesburg, Mississippi, in adopting an ordinance entitled, “AN ORDINANCE GRANTING A NON-EXCLUSIVE ELECTRIC FRANCHISE TO MISSISSIPPI POWER COMPANY, ITS SUCCESSORS, AND ASSIGNS, IN THE MUNICIPALITY OF HATTIESBURG, MISSISSIPPI,” whereby an electric franchise was granted to Mississippi Power Company, its successors, and assigns, as per the terms of said ordinance which was adopted by the City Council on the 7th day of July, 2020.

FOR APPROVAL OF SAID ORDINANCE ()

AGAINST APPROVAL OF SAID ORDINANCE ()

(Instructions to voters: Place a cross (x) mark opposite your choice.)

SECTION 4. That said election shall be held and conducted by the Election Commissioners of the Municipality of Hattiesburg in all respects in accordance with law, and as far as practicable, as other elections are held in said Municipality of Hattiesburg and returns thereof made as provided by law.

SECTION 5. That the Clerk of said Municipality of Hattiesburg, Mississippi, shall give not less than twenty-one (21) days’ notice of said special election on said electric franchise by posting notice thereof in three public places within the municipality, and by publication in the Hub City Spokes. Said notice shall be in substantially the following form:

NOTICE OF SPECIAL ELECTION OF ELECTRIC FRANCHISE
MUNICIPALITY OF HATTIESBURG, MISSISSIPPI

Notice is hereby given to the qualified electors of the Municipality of Hattiesburg, Mississippi, that a special election shall be held in the Municipality of Hattiesburg, on the 25th day of August, 2020, on the following proposition:

PROPOSITION

Do you approve or disapprove the action of the City Council of the Municipality of Hattiesburg, Mississippi, in adopting an ordinance entitled, “AN ORDINANCE GRANTING A NON-EXCLUSIVE ELECTRIC FRANCHISE TO MISSISSIPPI POWER COMPANY, ITS SUCCESSORS, AND ASSIGNS, IN THE MUNICIPALITY OF HATTIESBURG, MISSISSIPPI,” whereby an electric franchise was granted to Mississippi Power Company, its successors, and assigns, as per the terms of said ordinance which was adopted by the City Council on the 7th day of July, 2020.

Said election will be held at the Jackie Dole Sherrill Community Center located at 220 W. Front Street 39401 of the Municipality of Hattiesburg.

Said polling place will be open from the hour of seven o'clock a.m. until the hour of seven o'clock p.m. on said day. All qualified electors may vote at said election.

Said special election will be held pursuant to a Resolution of the City Council, adopted on the 7th day of July, 2020, calling a special election for the approval or disapproval of a majority of the qualified electors-of the Municipality of Hattiesburg, Mississippi, of the action of the City Council in adopting an ordinance entitled, “AN ORDINANCE GRANTING A NON-EXCLUSIVE ELECTRIC FRANCHISE TO MISSISSIPPI POWER COMPANY, ITS SUCCESSORS, AND ASSIGNS, IN THE MUNICIPALITY OF HATTIESBURG, MISSISSIPPI.”

A copy of said ordinance and proceedings whereby same was adopted is attached hereto as part of this notice.

Done by order of the City Council, this the 7th day of July, 2020.

/s/ Kermas Eaton

Kermas Eaton
Clerk, Municipality of Hattiesburg, Mississippi

SECTION 6. That a certified copy of the Resolution shall be prepared by the Clerk of the Municipality of Hattiesburg and shall be delivered to the Election Commissioners of the Municipality of Hattiesburg, Mississippi, and shall operate as a warrant and authority to the Election Commissioners in the holding of such special election on the date herein fixed.

SECTION 7. The Election Commissioners shall duly certify to the City Council of Hattiesburg, Mississippi, the result of the election as required by law.

The above and foregoing Resolution, after having been first reduced to writing, was introduced by Council Member _____, seconded by Council Member _____, and was adopted by the following, to wit;

YEAS:

NAYS:

ABSENT:

The president thereby declared the motion carried and the Resolution adopted this the 4th day of July, 2020.

(SEAL)

ATTEST:

ADOPTED:

CLERK OF COUNCIL

COUNCIL PRESIDENT

The above and foregoing Resolution, having been submitted to and approved by the Mayor, this the 4th day August, 2020.

ATTEST:

APPROVED:

CITY CLERK

MAYOR

STATE OF MISSISSIPPI

COUNTY OF FORREST

MUNICIPALITY OF HATTIESBURG

I, Kermas Eaton, Clerk of the Municipality of Hattiesburg, Mississippi, hereby certify that the foregoing resolution was passed by the City Council on the 7th day of July, 2020, as same appears on the Minutes of the City Council of Hattiesburg, Mississippi, File Number_____.

Given under my hand and official seal, this the 7th day of July, 2020.

Kermas Eaton
Clerk, Municipality of Hattiesburg, Mississippi



Memorandum

To: Mayor Toby Barker and Members of City Council

From: Andrew Ellard, Director

cc:

Date: Tuesday, August 4, 2020

Re: Adopt a Resolution declaring equipment surplus and authorize the disposal or sale of said equipment;
authorize removal of equipment from the City inventory of the Department of Urban Development.
File Number: 2020-511
Minute Book #

Summary

Adopt a Resolution declaring equipment surplus (per attached list) and authorize the disposal or sale of said equipment;
authorize removal of equipment from City inventory of the Department of Urban Development.

Recommendation Statement

I recommend adoption of resolution to surplus items.

Please place this on the August 4, 2020 City Council meeting for consideration.

Department of Urban Development
August 4, 2020 Surplus List

[illegible]

RESOLUTION

WHEREAS, the City of Hattiesburg finds and determines the following equipment, as per attached list, is no longer needed for municipal or related purposes and is not to be used in the future operation of the City; and

WHEREAS, the governing authorities of the City of Hattiesburg are authorized and empowered in their discretion to convey said equipment in accordance with appropriate Miss Code statutes; and

WHEREAS, the governing authorities of the City of Hattiesburg desire to dispose of said equipment with no residual value at the solid waste landfill and dispose at auction any equipment having a residual value;

NOW, THEREFORE, BE IT RESOLVED that the Mayor and Hattiesburg City Council does hereby declare surplus the following equipment, as per attached memo, and authorize disposal or sale of said equipment.

The foregoing resolution having been reduced to writing, the same was introduced by Council member _____, seconded by Council member _____, and was adopted by the following vote, to wit:

YEAS:

NAYS:

The President thereby declared the motion carried and the Resolution adopted, on this 4th day of August, 2020.

(SEAL)

ATTEST:

ADOPTED:

CLERK OF COUNCIL

PRESIDENT OF COUNCIL

The above and foregoing Resolution having been submitted to and approved by the Mayor, on this 4th day of August, 2020.

ATTEST:

ADOPTED:

CITY CLERK

MAYOR



Memorandum

To: Mayor Toby Barker and Members of City Council

From: Andrew Ellard, Director

cc:

Date: Tuesday, August 4, 2020

Re: Adopt a Resolution declaring certain vehicles as surplus (per attached memo) and authorize sale of said vehicles at auction and remove from the City's inventory of the Department of Urban Development.
File Number: 2020-512
Minute Book #

Summary

Adopt a Resolution declaring certain vehicles as surplus (per attached memo) and authorize sale of said vehicle at auction and remove from the City's inventory of the Department of Urban Development.

Recommendation Statement

I recommend adoption of this resolution

Please place this on the August 4, 2020 City Council meeting for consideration.

RESOLUTION

WHEREAS, the City of Hattiesburg finds and determines the following equipment, as per attached memo, is no longer needed for municipal or related purposes and is not to be used in the future operation of the City; and

WHEREAS, the governing authorities of the City of Hattiesburg are authorized and empowered in their discretion to convey said equipment in accordance with appropriate Miss Code statutes; and

WHEREAS, the governing authorities of the City of Hattiesburg desire to dispose of said equipment with no residual value at the solid waste landfill and dispose at auction any equipment having a residual value;

NOW, THEREFORE, BE IT RESOLVED that the Mayor and Hattiesburg City Council does hereby declare surplus the following equipment, as per attached memo, and authorize disposal or sale of said equipment.

The foregoing resolution having been reduced to writing, the same was introduced by Council member _____, seconded by Council member _____, and was adopted by the following vote, to wit:

YEAS:

NAYS:

The President thereby declared the motion carried and the Resolution adopted, on this 4th day of August, 2020.

(SEAL)

ATTEST:

ADOPTED:

CLERK OF COUNCIL

PRESIDENT OF COUNCIL

The above and foregoing Resolution having been submitted to and approved by the Mayor, on this 4th day of August, 2020.

ATTEST:

ADOPTED:

CITY CLERK

MAYOR



Mayor
Toby Barker

Council – Ward One
Jeffrey George

Council – Ward Two
Deborah Denard Delgado

Council – Ward Three
Carter Carroll

Council – Ward Four
Mary Dryden

Council – Ward Five
Nicholas Brown

MEMORANDUM

TO: Mayor and Council

FROM: Andrew Ellard, Director of Urban Development

DATE: August 4, 2020

RE: Surplus of Hub City Transit Vehicle

This memo is to request that the vehicle listed below be declared surplus, removed from inventory, and sold at auction.

Unit #	Year	Make	Model	Color	License Plate	VIN
14681	2005	Chevrolet	Silverado	White	G 33679	1GCEC14V85Z298969
16759	2008	GMC	Bus-National	White	G 54117	1GDE4V1908F402402

Sincerely,

Andrew Ellard

Director of Urban Development



Memorandum

To: Mayor Toby Barker and Members of City Council

From: Lamar Rutland

cc:

Date: Tuesday, August 4, 2020

Re: Adopt a Resolution authorizing Requisition No. 69 from the Project Fund Construction Account in connection with a certain loan agreement dated August 18, 2016, by and between the Mississippi Development Bank and the City of Hattiesburg.
File Number: 2020-525
Minute Book #

Summary

Adopt a Resolution authorizing Requisition No. 69 from the Project Fund Construction Account in connection with a certain loan agreement dated August 18, 2016, by and between the Mississippi Development Bank and the City of Hattiesburg.

Recommendation Statement

I recommend approval of this item.

Please place this on the August 4, 2020 City Council meeting for consideration.

The City Council of the City of Hattiesburg, Mississippi (the “City”) acting for and on behalf of the City, took up for consideration the matter of requesting and authorizing Requisition No. **69** from the Project Fund Construction Account in connection with the loan agreement between the Mississippi Development Bank and the City dated August 18, 2016. After discussion of the subject, Council Member _____ offered and moved for the adoption of the following resolution:

RESOLUTION OF THE CITY COUNCIL OF THE CITY OF HATTIESBURG, MISSISSIPPI (THE “CITY”) AUTHORIZING REQUISITION NO. 69 FROM THE PROJECT FUND CONSTRUCTION ACCOUNT IN CONNECTION WITH THAT CERTAIN LOAN AGREEMENT, DATED AS OF AUGUST 18, 2016, BY AND BETWEEN THE MISSISSIPPI DEVELOPMENT BANK AND THE CITY.

Whereas, on August 18, 2016 the City entered into a loan with the Mississippi Development Bank in an amount not to exceed \$25,000,000 (the “Loan”) pursuant to the terms and conditions of that certain loan agreement, dated as of August 18, 2016, by and between the Mississippi Development Bank and the City (the “Loan Agreement”).

Whereas, the City Council of the City now finds it necessary to approve Requisition No. **69** from the Project Fund Construction Account under the Loan in the total aggregate amount of **\$98,143.17** for the purpose of paying Water & Sewer Projects in connection with the loan as more particularly described in Exhibit A.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF HATTIESBURG, MISSISSIPPI:

SECTION 1. The City Council of the City hereby authorizes and approves Requisition No. **69** from the Project Fund Construction Account under the Loan in the total aggregate amount of **Ninety-Eight Thousand One Hundred Forty-Three and 17/100 dollars (\$98,143.17)** for the purpose of paying Water & Sewer Projects in connection with the loan as more particularly described in Exhibit A.

SECTION 2. The City Council hereby directs Regions Bank, as Trustee to disburse funds of Requisition No. **69** in the total aggregate amount **Ninety-Eight Thousand One Hundred Forty-Three and 17/100 dollars (\$98,143.17)** as authorized herein, as more particularly described in Exhibit A.

SECTION 3. The Mayor and City Clerk are hereby authorized and directed for and on behalf of the City to take any and all action as may be required by the City to carry out and give effect to the aforesaid documents authorized pursuant to this Resolution and to execute all papers, documents, certificates and other instruments that may be required for the carrying out of the authority conferred by this Resolution in order to evidence the authority.

The above and foregoing Resolution, after having been first reduced to writing, was introduced by Council Member _____ seconded by Council Member _____, and was adopted by the following vote, to wit:

YEAS:

NAYS:

ABSENT:

The motion having received the affirmative vote of a majority of the Council members present, the President declared the motion carried and the resolution adopted, on this the **4th** day of **August, 2020**.

(SEAL)

ATTEST:

ADOPTED:

CLERK OF COUNCIL

PRESIDENT

The above and foregoing Resolution having been submitted to and approved by the Mayor, this the **4th** day of **August, 2020**.

ATTEST:

APPROVED:

CITY CLERK

MAYOR

EXHIBIT A

PROJECT FUND CONSTRUCTION ACCOUNT REQUISITION

PROJECT FUND CONSTRUCTION ACCOUNT REQUISITION

RE: \$25,000,000.00 Mississippi Development Bank Taxable Special Obligation Bonds, Series 2016 (Hattiesburg, Mississippi Combined Water and Sewer System Construction Project) (the "Series 2016 Bonds") secured by \$25,000,000.00 Taxable Promissory Note (Hattiesburg, Mississippi Combined Water and Sewer System Construction Project), dated August 18, 2016 (the "Series 2016 Note").

**TO: Regions Bank
400 West Capitol, 7th Floor
Little Rock, AR 72201
ATTN: Corporate Trust Department**

REQUISITION NO.: 69

DATE OF REQUISITION: 8/4/2020

Item #	Payee Name & Address	Budget Line Item	Payment Amount	Invoice #	Purpose of Payment
1	DNA Underground, LLC 16101 S. Swan Road Gulfport, MS 39503	093695.7220.74	98,143.17	Pay App. No. 11	Sewer Improvements Ph XII Period: 6/1/20 - 6/30/20 MB 2019-58
			<u>98,143.17</u>		



Engineering Progress

July 16, 2020

City of Hattiesburg
Post Office Box 1898
Hattiesburg MS 39403-1898

Attn: Lamar Rutland, P.E.

**RE: Comprehensive Sewer Improvements Ph XII
City of Hattiesburg**

Dear Mr. Rutland:

Enclosed please find Pay Estimate No. 11 in the amount of \$98,143.17 for the above referenced project.

Should you have any questions and/or comments, please, do not hesitate to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read 'K. Wallace', is written over the word 'Sincerely,'.

Kyle D. Wallace, P.E.
Project Engineer

/md

cc: DNA Underground, LLC
SDW files



Contractor's Application for Payment No. <u>11</u>	
Application Period: <u>6/1/20 to 6/30/20</u>	Application Date: <u>7/1/2020</u>
To (Owner): <u>City of Hattiesburg</u>	Via (Engineer):
Project: <u>Comprehensive Sewer Improvements - Phase XII</u>	
Owner's Contract No.: <u>1273-5012</u>	Engineer's Project No.:

Application For Payment
Change Order Summary

Approved Change Orders		1. ORIGINAL CONTRACT PRICE..... \$ \$1,913,694.00	
Number	Additions	Deductions	
			2. Net change by Change Orders..... \$
			3. Current Contract Price (Line 1 ± 2)..... \$ \$1,913,694.00
			4. TOTAL COMPLETED AND STORED TO DATE
			(Column F total on Progress Estimates)..... \$ \$1,104,503.60
			5. RETAINAGE:
			a. 5% X \$1,104,503.60 Work Completed..... \$ \$55,225.18
			b. 5% X Stored Material..... \$
			c. Total Retainage (Line 5.a + Line 5.b)..... \$ \$55,225.18
			6. AMOUNT ELIGIBLE TO DATE (Line 4 - Line 5.c)..... \$ \$1,049,278.42
			7. LESS PREVIOUS PAYMENTS (Line 6 from prior Application)..... \$ \$951,135.25
			8. AMOUNT DUE THIS APPLICATION..... \$ \$98,143.17
			9. BALANCE TO FINISH, PLUS RETAINAGE
			(Column G total on Progress Estimates + Line 5.c above)..... \$ \$864,415.58
TOTALS			
NET CHANGE BY			
CHANGE ORDERS			

Contractor's Certification

I hereby certify that the labor and materials listed on this request for payment has been used in the construction of this work or that all materials included in this request for payment and not yet incorporated into the construction are now on the site or stored at an approved location; and payment received from the last request for payment has been used to make payments to all first-tier subcontractors and suppliers except as listed below:

By: [Signature] Date: 7-2-20

Subscribed and sworn to me this 2nd day of July

Notary Public: [Signature]

My Commission Expires: May 16, 2024

Payment of: \$ 98,143.17

(Line 8 or other - attach explanation of the other amount)

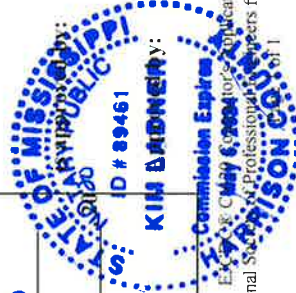
is recommended by [Signature] (Engineer) 7-16-2020 (Date)

Payment of: \$ _____

(Line 8 or other - attach explanation of the other amount)

(Owner) _____ (Date)

Funding or Financing Entity (if applicable) _____ (Date)



Progress Estimate - Unit Price Work

Contractor's Application

Comprehensive Sewer Improvements - Phase XII															Application Number: 11	
Application Period: 6/1/20 to 6/30/20															Application Date: 1-Jul-20	
A				B			C	E	C	D	E	F		Balance to Finish (B - H)		
Bid Item No.	Description	Item Quantity	Units	Unit Price	Total Value	of Item (\$)	Quantity Previous App	Value Previous	Estimated Quantity Installed	Value of Work Installed to Date	Materials Presently Stored	Total Completed and Stored to Date (E+F+G)	% (H / B)			
Sewer Pipe Items																
1	4" PVC Sewer Force Main (All Depths)(Open Cut)	40	LF	\$ 30.00	\$	1,200.00		\$ -						\$ 1,200.00		
2	6" PVC Sewer Force Main (All Depths)(Open Cut)	40	LF	\$ 32.00	\$	1,280.00		\$ -						\$ 1,280.00		
3	8" SDR 26 PVC Sewer Pipe (0'-6")(Open Cut) and Carrier Pipe)	1152	LF	\$ 36.00	\$	41,472.00	127	\$ 4,572.00				\$4,572.00	11.0%	\$ 36,900.00		
4	8" SDR 26 PVC Sewer Pipe (6'-8")(Open Cut)	806	LF	\$ 38.00	\$	30,628.00	1070.5	\$ 40,679.00	21	\$798.00		\$41,477.00	135.4%	\$ (10,849.00)		
5	8" SDR 26 PVC Sewer Pipe (8'-10")(Open Cut)	202	LF	\$ 40.00	\$	8,080.00	130	\$ 5,200.00				\$5,200.00	64.4%	\$ 2,880.00		
6	8" SDR 26 PVC Sewer Pipe (10'-12")(Open Cut)	40	LF	\$ 50.00	\$	2,000.00		\$ -						\$ 2,000.00		
7	8" SDR 26 PVC Sewer Pipe (12'-14")(Open Cut)	40	LF	\$ 70.00	\$	2,800.00		\$ -						\$ 2,800.00		
8	8" SDR 26 PVC Sewer Pipe (14'-16")(Open Cut)	20	LF	\$ 80.00	\$	1,600.00		\$ -						\$ 1,600.00		
9	8" SDR 26 PVC Sewer Pipe (16'-18")(Open Cut)	20	LF	\$ 100.00	\$	2,000.00		\$ -						\$ 2,000.00		
10	8" SDR 26 PVC Sewer Pipe (18'-20")(Open Cut)	20	LF	\$ 120.00	\$	2,400.00		\$ -						\$ 2,400.00		
11	8" SDR 26 PVC Sewer Pipe (20'-22")(Open Cut)	20	LF	\$ 150.00	\$	3,000.00		\$ -						\$ 3,000.00		
12	8" SDR 26 PVC Sewer Pipe (All Depths)(Bored)(No Casting)	120	LF	\$ 80.00	\$	9,600.00		\$ -						\$ 9,600.00		
13	10" SDR 26 PVC Sewer Pipe (10'-12")(Open Cut)	20	LF	\$ 80.00	\$	1,600.00	20	\$ 1,600.00				\$1,600.00	100.0%	\$ -		
14	12" SDR 26 PVC Sewer Pipe (10'-12")(Open Cut)	20	LF	\$ 85.00	\$	1,700.00	20	\$ 1,700.00				\$1,700.00	100.0%	\$ -		
15	12" SDR 26 PVC Sewer Pipe (12'-14")(Open Cut)	40	LF	\$ 90.00	\$	3,600.00		\$ -						\$ 3,600.00		
16	15" SDR 26 PVC Sewer Pipe (12'-14")(Open Cut)	20	LF	\$ 120.00	\$	2,400.00		\$ -						\$ 2,400.00		
17	18" PS115 PVC Sewer Pipe (0'-6")(Open Cut and Carrier Pipe)	200	LF	\$ 48.00	\$	9,600.00		\$ -						\$ 9,600.00		
18	18" PS115 PVC Sewer Pipe (8'-10")(Open Cut)	311	LF	\$ 58.00	\$	18,038.00		\$ -						\$ 18,038.00		
19	18" PS115 PVC Sewer Pipe (10'-12")(Open Cut)	996	LF	\$ 62.00	\$	61,752.00	1065	\$ 66,030.00	143	\$8,866.00		\$74,896.00	121.3%	\$ (13,144.00)		
20	18" PS115 PVC Sewer Pipe (12'-14")(Open Cut)	848	LF	\$ 72.00	\$	61,056.00	195	\$ 14,040.00	480	\$34,560.00		\$48,600.00	79.6%	\$ 12,456.00		
21	18" PS115 PVC Sewer Pipe (14'-18")(Open Cut)	428	LF	\$ 82.00	\$	35,096.00	300	\$ 24,600.00	80	\$6,560.00		\$31,160.00	88.8%	\$ 3,936.00		
22	18" PS115 PVC Sewer Pipe (16'-18")(Open Cut)	737	LF	\$ 98.00	\$	72,226.00	520	\$ 50,960.00				\$50,960.00	70.6%	\$ 21,266.00		
23	18" PS115 PVC Sewer Pipe (18'-20")(Open Cut)	636	LF	\$ 130.00	\$	82,680.00	187	\$ 24,310.00				\$24,310.00	29.4%	\$ 58,370.00		
24	18" PS115 PVC Sewer Pipe (20'-22")(Open Cut)	20	LF	\$ 152.00	\$	3,040.00	465	\$ 70,680.00				\$70,680.00	2325.0%	\$ (67,640.00)		
25	8" Ductile Iron Sewer Pipe (0'-6")(Open Cut)	240	LF	\$ 50.00	\$	12,000.00	246	\$ 12,300.00				\$12,300.00	102.5%	\$ (300.00)		
26	8" Ductile Iron Sewer Pipe (0'-6")(Open Cut Encased in concrete)	160	LF	\$ 80.00	\$	12,800.00	160	\$ 12,800.00				\$12,800.00	100.0%	\$ -		
27	12" Steel Casing (0.25" WT)(All Depths)(Bored)	160	LF	\$ 205.00	\$	32,800.00	127	\$ 26,035.00	40	\$8,200.00		\$34,235.00	104.4%	\$ (1,435.00)		
28	24" Steel Casing (0.25" WT)(All Depths)(Bored)	260	LF	\$ 285.00	\$	74,100.00		\$ -						\$ 74,100.00		

Progress Estimate - Unit Price Work

Contractor's Application

Comprehensive Sewer Improvements - Phase XII												
Application Number: 11												
Application Period: 6/1/20 to 6/30/20												
Application Date: 1-Jul-20												

Progress Estimate - Unit Price Work

Contractor's Application

Comprehensive Sewer Improvements - Phase XII															Application Number: 11									
Application Period: 6/1/20 to 6/30/20															Application Date: 1-Jul-20									
Item			A				B				C				E		D		C		F		Balance to Finish (B - H)	
Bid Item No.	Description	Item	Units	Contract Information	Unit Price	Total Value	of Item (\$)	Quantity Previous App	Value Previous	Estimated Quantity Installed	Value of Work Installed to Date	Materials Presently Stored	Total Completed and Stored to Date (E+F+G)	% (H / B)										
53	Water Service Repair (Incl. Service Tubing, Fittings, Corp Stop, Curb Stop, Tapping Saddle, Etc.) (No Meter)(Match Existing Size)(As Directed on Oak Forrest Dr Only)		34 EA	\$	350.00	\$	11,900.00		\$ -													\$	11,900.00	
54	Crushed Aggregate (Size 610) For Trench Repair in Paved Areas		640 Ton	\$	50.00	\$	32,000.00	2314.04	\$	115,702.00	\$1,301.00		\$117,003.00	365.6%								\$	(85,003.00)	
55	Select Fill Material (Class 9, Group C), LVM, for Trench Repair in Paved Areas		58200 CY	\$	7.00	\$	407,400.00	15398	\$	107,786.00			\$107,786.00	26.5%								\$	299,614.00	
56	Concrete Pavement Repair (All Depths)		380 SY	\$	50.00	\$	19,000.00		\$ -													\$	19,000.00	
57	9.5 mm Hot Mix Asphalt		460 Ton	\$	180.00	\$	82,800.00		\$ -													\$	82,800.00	
58	19mm Hot Mix Asphalt		430 Ton	\$	180.00	\$	77,400.00	20.42	\$	3,675.60			\$3,675.60	4.7%								\$	73,724.40	
59	Concrete Sidewalk Repair (All Depths)		56 SY	\$	50.00	\$	2,800.00		\$ -													\$	2,800.00	
60	Concrete Curb & Gutter (Match Existing Type)		20 LF	\$	25.00	\$	500.00		\$ -													\$	500.00	
61	Class "B" Concrete, Minor Structures		2 CY	\$	1,000.00	\$	2,000.00		\$ -	0.5	\$500.00		\$500.00	25.0%								\$	1,500.00	
62	Reinforcing Steel		76 LBS	\$	2.00	\$	152.00		\$ -													\$	152.00	
63	Inlet Castings		444 LBS	\$	3.00	\$	1,332.00		\$ -													\$	1,332.00	
64	12" Corrugated HDPE Pipe (Dual Wall)(Incl. Bedding)		352 LF	\$	38.00	\$	13,376.00		\$ -	60	\$2,280.00		\$2,280.00	17.0%								\$	11,096.00	
65	15" Corrugated HDPE Pipe (Dual Wall)(Incl. Bedding)		8 LF	\$	50.00	\$	400.00		\$ -													\$	400.00	
66	18" Corrugated HDPE Pipe (Dual Wall)(Incl. Bedding)		8 LF	\$	60.00	\$	480.00		\$ -													\$	480.00	
67	15" Reinforced Concrete Pipe (Class III)(Rubber Gaskets)		16 LF	\$	48.00	\$	768.00		\$ -	85	\$4,080.00		\$4,080.00	531.3%								\$	(3,312.00)	
68	18" Reinforced Concrete Pipe (Class III)(Rubber Gaskets)		8 LF	\$	58.00	\$	464.00		\$ -													\$	464.00	
69	24" Reinforced Concrete Pipe (Class III)(Rubber Gaskets)		32 LF	\$	68.00	\$	2,176.00		\$ -	48	\$3,264.00		\$3,264.00	150.0%								\$	(1,088.00)	
70	15" Reinforced Concrete Pipe Flared End Section		1 EA	\$	1,200.00	\$	1,200.00		\$ -													\$	1,200.00	
71	Removal of Existing Pipe Drains (All Sizes and Depths)		230 LF	\$	4.00	\$	920.00		\$ -													\$	920.00	
72	Removal of Existing Corrugated HDPE Pipe (All Sizes and Depths) and Reset		432 LF	\$	4.00	\$	1,728.00		\$ -													\$	1,728.00	
73	Remove, Salvage and Reset Existing Wood Fence		40 LF	\$	25.00	\$	1,000.00		\$ -													\$	1,000.00	
74	Remove, Salvage and Reset Existing Chain Link Fence		40 LF	\$	35.00	\$	1,400.00		\$ -													\$	1,400.00	
75	6" Yellow Thermoplastic Detail Traffic Stripe		150 LF	\$	20.00	\$	3,000.00		\$ -													\$	3,000.00	
76	Legend White Thermoplastic Traffic Marking (6" Equivalent)		148 LF	\$	20.00	\$	2,960.00		\$ -													\$	2,960.00	
77	Solid Sod (Incl. Sod, Top Soil, Fertilizer, Watering, etc.)		5530 SY	\$	6.00	\$	33,180.00		\$ -													\$	33,180.00	
78	Landscape Restoration (Incl. Top Soil, Plants, Mulch, Watering, etc.)		1500 SF	\$	6.00	\$	9,000.00		\$ -													\$	9,000.00	
79	Clearing and Grubbing		1 LS	\$	5,000.00	\$	5,000.00	0.75	\$	3,750.00			\$3,750.00	75.0%								\$	1,250.00	

Progress Estimate - Unit Price Work

Contractor's Application

Comprehensive Sewer Improvements - Phase XII														Application Number: 11		
6/1/20 to 6/30/20														Application Date: 1-Jul-20		
Item		A			B			C	E	C	D	E	F			
Bid Item No.	Description	Item Quantity	Units	Contract Information			Quantity Previous App	Value Previous	Estimated Quantity Installed	Value of Work Installed to Date	Materials Presently Stored	Total Completed and Stored to Date (E+F+G)	% (H / B)	Balance to Finish (B - H)		
				Unit Price	Total Value	of Item (\$)										
80	Temporary Erosion Control	1	LS	\$	20,000.00	\$	0.462	\$	9,240.00	0.052	\$1,040.00		\$10,280.00	51.4%	\$ 9,720.00	
81	Maintenance of Traffic	1	LS	\$	60,000.00	\$	0.523	\$	31,380.00	0.052	\$3,120.00		\$34,500.00	57.5%	\$ 25,500.00	
82	Mobilization	1	LS	\$	185,000.00	\$	1	\$	185,000.00				\$185,000.00	100.0%	\$ -	
	Totals					\$ 1,913,694.00		\$ 1,001,195.00			\$103,308.60		\$1,104,503.60	57.7%	\$ 809,190.40	

Hattiesburg, Mississippi does hereby certify to Regions Bank, as trustee in respect to the referenced Bonds (the Trustee”):

- (1) The amounts herein requisitioned to be paid to the above-designated payees are for the items or services hereinabove described.
- (2) The items or services listed above for which payment is proposed to be made hereunder have not formed the basis for any payment heretofore made from the Series 2016 Project Fund Construction Account.
- (3) Each of the items was reasonable and necessary in connection with the “Construction Project” being financed pursuant to the Loan Agreement dated as of August 18, 2016 (the “Loan Agreement”).
- (4) The payment herein authorized and approved is a proper charge against the Series 2016 Project Fund Construction Account as provided for in Section 3 of the Loan Agreement.
- (5) The invoices or statements from the contractor, vendor or other payee or other document supporting the amounts requisitioned herein are on file with the City.

CITY OF HATTIESBURG, MISSISSIPPI

By: _____
Title: Mayor or City Clerk
(Authorized City Representative)

As Approved by:

Regions Commercial Equipment Finance, LLC
As Purchaser

Authorized Officer

RESOLUTION OF THE CITY COUNCIL OF THE CITY OF HATTIESBURG, MISSISSIPPI (THE “CITY”) AUTHORIZING REQUISITION NO. 69 FROM THE PROJECT FUND CONSTRUCTION ACCOUNT IN CONNECTION WITH THAT CERTAIN LOAN AGREEMENT, DATED AS OF AUGUST 18, 2016, BY AND BETWEEN THE MISSISSIPPI DEVELOPMENT BANK AND THE CITY.

Whereas, the City Council of the City now finds it necessary to approve Requisition No. **69** from the Project Fund Construction Account under the Loan in the total aggregate amount of **\$98,143.17** for the purpose of paying Water & Sewer Projects in connection with the loan as more particularly described in Exhibit A.

SECTION 1. The City Council of the City hereby authorizes and approves Requisition No. **69** from the Project Fund Construction Account under the Loan in the total aggregate amount of **Ninety-Eight Thousand One Hundred Forty-Three and 17/100 dollars (\$98,143.17)** for the purpose of paying Water & Sewer Projects in connection with the loan as more particularly described in Exhibit A.

SECTION 3. The Mayor and City Clerk are hereby authorized and directed for and on behalf of the City to take any and all action as may be required by the City to carry out and give effect to the aforesaid documents authorized pursuant to this Resolution and to execute all papers, documents, certificates and other instruments that may be required for the carrying out of the authority conferred by this Resolution in order to evidence the authority.

ABSENT:

The motion having received the affirmative vote of a majority of the Council members present, the President declared the motion carried and the resolution adopted, on this the **4th** day of **August, 2020**.

(SEAL)

ATTEST:

ADOPTED:

CLERK OF COUNCIL

PRESIDENT

The above and foregoing Resolution having been submitted to and approved by the Mayor, this the **4th** day of **August, 2020**.

ATTEST:

APPROVED:

CITY CLERK

MAYOR

EXHIBIT A

PROJECT FUND CONSTRUCTION ACCOUNT REQUISITION

Hattiesburg, Mississippi does hereby certify to Regions Bank, as trustee in respect to the referenced Bonds (the Trustee”):

- (1) The amounts herein requisitioned to be paid to the above-designated payees are for the items or services hereinabove described.
- (2) The items or services listed above for which payment is proposed to be made hereunder have not formed the basis for any payment heretofore made from the Series 2016 Project Fund Construction Account.
- (3) Each of the items was reasonable and necessary in connection with the “Construction Project” being financed pursuant to the Loan Agreement dated as of August 18, 2016 (the “Loan Agreement”).
- (4) The payment herein authorized and approved is a proper charge against the Series 2016 Project Fund Construction Account as provided for in Section 3 of the Loan Agreement.
- (5) The invoices or statements from the contractor, vendor or other payee or other document supporting the amounts requisitioned herein are on file with the City.

CITY OF HATTIESBURG, MISSISSIPPI

By: _____
Title: Mayor or City Clerk
(Authorized City Representative)

As Approved by:

Regions Commercial Equipment Finance, LLC
As Purchaser

Authorized Officer



Memorandum

To: Mayor Toby Barker and Members of City Council

From: Lamar Rutland

cc:

Date: Tuesday, August 4, 2020

Re: Approve Supplemental Agreement No. 2 with Suncoast Infrastructure, Inc. for the Cured In Place Pipe Sewer Project In Various Locations Project to add work areas and calendar days to the existing project for a contract increase of \$291,918.20 and authorize the Mayor to execute in triplicate.
File Number: 2020-505
Minute Book #

Summary

Approve Supplemental Agreement No. 2 with Suncoast Infrastructure, Inc. for the Cured In Place Pipe Sewer Project In Various Locations Project to add work areas and calendar days to the existing project for a contract increase of \$291,918.20; Authorize Mayor to execute in triplicate.

Recommendation Statement

I recommend approval of this item.

Please place this on the August 4, 2020 City Council meeting for consideration.



Engineering Progress

July 15, 2020

City of Hattiesburg
P.O. Box 1898
Hattiesburg, MS 39403

Attn: Lamar Rutland, P.E.

**Re: Cured In Place Pipe Sewer Repair – Various Locations
City of Hattiesburg**

Dear Lamar:

Enclosed please find three (3) sets of Supplemental Agreement No. 2 for the above referenced project. Please review and process through the City Council and return all three (3) documents to our office for further processing

Should you have any questions or comments, please do not hesitate to call.

Sincerely,

A handwritten signature in blue ink, appearing to read 'K. Wallace', is written over a horizontal line.

Kyle D. Wallace, P.E.
Project Engineer

/md

Enclosures

**CURED IN PLACE PIPE SEWER PROJECT IN VARIOUS LOCATIONS
CITY OF HATTIESBURG**

SUPPLEMENTAL AGREEMENT NO. 2

CITY OF HATTIESBURG, MISSISSIPPI

WHEREAS, We, Suncoast Infrastructure, Inc. Contractor and Federal Insurance Company, Surety entered into a contract with the City of Hattiesburg on the 22nd Day of January, 2019 for the Cured In Place Pipe Sewer Project In Various Location.

WHEREAS: It is proposed that the following work areas will be added in the contract documents requested by the Owner and agreed by the Contractor. An additional 175 calendar days will be added to the contract as a result of Addendum No. 1 and No. 2.

Site 13 – Kamper Avenues (Zoo)

<u>No.</u>	<u>Item</u>	<u>Unit</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Total</u>
1	6" CIPP	LF	434	\$45.00	\$ 19,530.00
2	8" CIPP	LF	1,271	\$38.00	\$ 48,298.00
3	15" CIPP	LF	278	\$87.00	\$ 24,186.00
4	CIPP Service Lateral	LF	75	\$250.00	\$ 18,750.00
5	Cleanout Assembly (As Detailed)	EA	7	\$680.00	\$ 4,760.00
6a	Protruding Tap To Be Removed (8' – 30' Depth) (External)	EA	1	\$14,660.00	\$ 14,660.00
6b	Protruding Tap To Be Removed (8' – 30' Depth) (Internal)	EA	6	\$250.00	\$ 1,500.00
7	Manhole Rehabilitation	VF	33	\$235.00	\$ 7,755.00
8	CCTV Service Lateral	LF	250	\$20.00	\$ 5,000.00
9	Maintenance of Traffic	LS	1	\$1,650.00	\$ 1,650.00
10	Mobilization	LS	1	\$10,500.00	\$ 10,500.00
				Total:	\$ 156,589.00

Site 15 – Julianne Place

1	12" CCTV	LF	612	\$3.35	\$ 2,050.20
2	12" CIPP	LF	612	\$32.00	\$ 19,584.00
3	CIPP Service Lateral	LF	180	\$400.00	\$ 72,000.00
4	Cleanout Assembly (As Detailed)	EA	9	\$650.00	\$ 5,850.00
5a	Protruding Tap To Be Removed (8' – 30' Depth) (External)	EA	1	\$14,660.00	\$ 14,660.00
5b	Protruding Tap To Be Removed (8' – 30' Depth) (Internal)	EA	1	\$250.00	\$ 250.00
6	Manhole Rehabilitation	VF	11	\$235.00	\$ 2,585.00
7	CCTV Service Lateral	LF	180	\$50.00	\$ 9,000.00
8	Maintenance of Traffic	LS	1	\$850.00	\$ 850.00
9	Mobilization	LS	1	\$8,500.00	\$ 8,500.00

Total: \$135,329.20

Total Construction Contract Increase: \$291,918.20

This agreement in no way modifies or changes the original contract of which it becomes a part, except as specifically stated herein.

NOW, THEREFORE, We, Suncoast Infrastructure, Inc. Contractor and Federal Insurance Company, Surety, hereby agree that said Supplemental Agreement is hereby made a part of the Original Contract to be performed under the specifications thereof, and that the Original Contract is in full force and effect, except insofar as it might be modified by this Supplement Agreement.

DATED, this _____ day of _____, 2020.

Suncoast Infrastructure, Inc.

Federal Insurance Company

By: Stephen H. Rula
Contractor Stephen H. Rula, President

By: Mary Anne Goodin
Surety Mary Anne Goodin, Attorney in Fact

Witness: Jennifer L. Laster

Witness: Susan G. Johnston
Susan G. Johnston, MS Resident Agent

City of Hattiesburg

By: _____
Owner

Witness: _____

CHUBB

Power of Attorney

Federal Insurance Company | Vigilant Insurance Company | Pacific Indemnity Company

Know All by These Presents, That **FEDERAL INSURANCE COMPANY**, an Indiana corporation, **VIGILANT INSURANCE COMPANY**, a New York corporation, and **PACIFIC INDEMNITY COMPANY**, a Wisconsin corporation, do each hereby constitute and appoint **Ronald Lee Andrews, Mary Anne Goodin and Susan G. Johnston** of Vicksburg, Mississippi

each as their true and lawful Attorney-in-Fact to execute under such designation in their names and to affix their corporate seals to and deliver for and on their behalf as surety thereon or otherwise, bonds and undertakings and other writings obligatory in the nature thereof (other than bail bonds) given or executed in the course of business, and any instruments amending or altering the same, and consents to the modification or alteration of any instrument referred to in said bonds or obligations.

In Witness Whereof, said **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY** have each executed and attested these presents and affixed their corporate seals on this 1st day of **August, 2019**.

Dawn M. Chloros

Dawn M. Chloros, Assistant Secretary

Stephen M. Haney

Stephen M. Haney, Vice President



STATE OF NEW JERSEY

County of Hunterdon

SS.

On this 1st day of **August, 2019**, before me, a Notary Public of New Jersey, personally came Dawn M. Chloros, to me known to be Assistant Secretary of **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY**, the companies which executed the foregoing Power of Attorney, and the said Dawn M. Chloros, being by me duly sworn, did depose and say that she is Assistant Secretary of **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY** and knows the corporate seals thereof, that the seals affixed to the foregoing Power of Attorney are such corporate seals and were thereto affixed by authority of said Companies; and that she signed said Power of Attorney as Assistant Secretary of said Companies by like authority; and that she is acquainted with Stephen M. Haney, and knows him to be Vice President of said Companies; and that the signature of Stephen M. Haney, subscribed to said Power of Attorney is in the genuine handwriting of Stephen M. Haney, and was thereto subscribed by authority of said Companies and in deponent's presence.

Notarial Seal



KATHERINE J. ADELAAR
NOTARY PUBLIC OF NEW JERSEY
No. 2316885
Commission Expires July 16, 2024

Katherine J. Adelaar
Notary Public

CERTIFICATION

Resolutions adopted by the Boards of Directors of **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY** on August 30, 2016:

"RESOLVED, that the following authorizations relate to the execution, for and on behalf of the Company, of bonds, undertakings, recognizances, contracts and other written commitments of the Company entered into in the ordinary course of business (each a "Written Commitment"):

- (1) Each of the Chairman, the President and the Vice Presidents of the Company is hereby authorized to execute any Written Commitment for and on behalf of the Company, under the seal of the Company or otherwise.
- (2) Each duly appointed attorney-in-fact of the Company is hereby authorized to execute any Written Commitment for and on behalf of the Company, under the seal of the Company or otherwise, to the extent that such action is authorized by the grant of powers provided for in such person's written appointment as such attorney-in-fact.
- (3) Each of the Chairman, the President and the Vice Presidents of the Company is hereby authorized, for and on behalf of the Company, to appoint in writing any person the attorney-in-fact of the Company with full power and authority to execute, for and on behalf of the Company, under the seal of the Company or otherwise, such Written Commitments of the Company as may be specified in such written appointment, which specification may be by general type or class of Written Commitments or by specification of one or more particular Written Commitments.
- (4) Each of the Chairman, the President and the Vice Presidents of the Company is hereby authorized, for and on behalf of the Company, to delegate in writing to any other officer of the Company the authority to execute, for and on behalf of the Company, under the Company's seal or otherwise, such Written Commitments of the Company as are specified in such written delegation, which specification may be by general type or class of Written Commitments or by specification of one or more particular Written Commitments.
- (5) The signature of any officer or other person executing any Written Commitment or appointment or delegation pursuant to this Resolution, and the seal of the Company, may be affixed by facsimile on such Written Commitment or written appointment or delegation.

FURTHER RESOLVED, that the foregoing Resolution shall not be deemed to be an exclusive statement of the powers and authority of officers, employees and other persons to act for and on behalf of the Company, and such Resolution shall not limit or otherwise affect the exercise of any such power or authority otherwise validly granted or vested."

I, Dawn M. Chloros, Assistant Secretary of **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY** (the "Companies") do hereby certify that

- (i) the foregoing Resolutions adopted by the Board of Directors of the Companies are true, correct and in full force and effect,
- (ii) the foregoing Power of Attorney is true, correct and in full force and effect.

Given under my hand and seals of said Companies at Whitehouse Station, NJ, this



Dawn M. Chloros

Dawn M. Chloros, Assistant Secretary

IN THE EVENT YOU WISH TO VERIFY THE AUTHENTICITY OF THIS BOND OR NOTIFY US OF ANY OTHER MATTER, PLEASE CONTACT US AT:

Telephone (908) 903-3493 Fax (908) 903-3656 e-mail: surety@chubb.com



Memorandum

To: Mayor Toby Barker and Members of City Council

From: Andrew Ellard, Director

cc:

Date: Tuesday, August 4, 2020

Re: Approve Payment Application No. 3 and Final Payment to Wildstone Construction Services, LLC. in the amount of \$37,941.04 for construction services for the Hattiesburg Bus Stops project; Approve final acceptance of said project; and Authorize Publication of the Notice of Final Settlement of contract of said project.
File Number: 2020-515
Minute Book #

Summary

Approve Payment Application No. 3 and Final Payment to Wildstone Construction Services, LLC. in the amount of \$37,941.04 for construction services for the Hattiesburg Bus Stops project; Approve final acceptance of said project; and Authorize Publication of the Notice of Final Settlement of contract of said project.

Recommendation Statement

I recommend approving and authorizing publication.

Please place this on the August 4, 2020 City Council meeting for consideration.

NOTICE OF FINAL SETTLEMENT

NOTICE is hereby given that the contract between the City of Hattiesburg, Mississippi, as Owner and Wildstone Construction Services, LLC dated January 14, 2020, for the Hattiesburg Bust Stops project, as per approved plans and specification on file in the City Clerk's Office, has been fully and completely performed and exercised, and that final settlement thereof and thereunder will be made.

THIS NOTICE is given pursuant to and under the terms and provisions of Section 31-5-53, Mississippi Code of 1972, annotated as amended and pursuant to the authority conferred by Order of the Mayor and City Council of Hattiesburg, Mississippi, appearing for record upon and as part of the official minutes of said City of Hattiesburg.

WITNESS my signature and the official seal of said City, on this the 4th day of August, 2020,
A.D.

CITY OF HATTIESBURG, MISSISSIPPI

BY: _____
CITY CLERK

(S E A L)

Publish (1) Thursday, August 6, 2020
Return PROOF to City Clerk's Office
P O Box 1898
Hattiesburg, MS 39403

July 21, 2020
N-S Project No. 14877.001

Lamar Rutland, P.E.
Director of Engineering
City of Hattiesburg
P.O. Box 1898
Hattiesburg, MS 39403-1898

REFERENCE: CONTRACTORS FINAL ESTIMATE
CITY OF HATTIESBURG
HATTIESBURG BUS STOPS

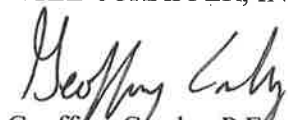
Dear Mr. Rutland:

Enclosed are three (3) originals of the Contractor's Final Estimate along with Final Close-Out Documents for the referenced project. I have reviewed the Contractor's Final Estimate and find the pay application to be in order. I, therefore, recommend payment to the contractor Wildstone Construction Services, in the amount of \$37,941.04 for work completed.

Please call me at 545-1565 if you have any questions or need additional information.

Sincerely,

NEEL-SCHAFFER, INC.


Geoffrey Crosby, P.E.
Senior Project Manager

Enclosures

APPLICATION AND CERTIFICATION FOR PAYMENT

TO OWNER:
City of Hattiesburg
200 Forrest Street
Hattiesburg, MS 39401

PROJECT:

Hattiesburg Bus Stops

FROM CONTRACTOR:
Wildstone Construction Services, LLC
PO Box 1122
Madison, MS 39130

VIA ENGINEER:
Neel-Schaffer, Inc.
704 Hardy Street
Hattiesburg, MS 39401

CONTRACT FOR:

CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract.
Continuation Sheet, AIA Document G703, is attached.

1. ORIGINAL CONTRACT SUM \$ 128,900.00
2. Net change by Change Orders \$ -
3. CONTRACT SUM TO DATE (Line 1 + 2) \$ 128,900.00
4. TOTAL COMPLETED & STORED TO DATE (Column G on G703) \$ 122,434.75
5. RETAINAGE:
 - a. 0 % of Completed Work (Column D + E on G703) \$0.00
 - b. 5 % of Stored Material (Column F on G703) \$0.00
 Total Retainage (Lines 5a + 5b or (Line 4 Less Line 5 Total) \$ -
6. TOTAL EARNED LESS RETAINAGE (Line 4 Less Line 5 Total) \$ 122,434.75
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 from prior Certificate) \$ \$84,493.71
8. CURRENT PAYMENT DUE \$ 37,941.04
9. BALANCE TO FINISH, INCLUDING RETAINAGE (Line 3 less Line 6) \$ 6,465.25

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner	\$0.00	-
Total approved this Month	\$0.00	-
TOTALS	\$0.00	-
NET CHANGES by Change Order	\$0.00	

Application for Payment

AIA DOCUMENT G702
APPLICATION NO: 3
PERIOD TO: 06/24/20
PROJECT NO:
CONTRACT DATE: 01/14/20
DISTRIBUTION TO:
X OWNER
X ENGINEER
CONTRACTOR

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

CONTRACTOR:

By: Emilia B. Pitt Date: 7-2-2020
State of: Mississippi County of: Madison
Subscribed and sworn to before me this 9 day of July 2020
Notary Public: Theresa Fox
My Commission Expires: August 31, 2020

ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising the application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED \$ 37,941.04

(Attach explanation if amount certified differs from the amount applied. Initial all figures on this Application and on the Continuation Sheet that are changed to conform with the amount certified.)

ARCHITECT:

By: Jeffrey Luby Date: 07/21/2020

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

Fax:

Progress Invoice No:

3

Continuation Form: Page 1 of Date: 7/3/2020

A ITEM NO.	B DESCRIPTION OF WORK	C UNITS	D QUANTITY VALUE	E UNIT PRICE	F TOTAL CONTRACT AMOUNT	G		H		I	J	K	L		M TOTAL COMPLETED TO DATE	N BALANCE TO FINISH	O RETAINAGE				
						QUANTITY PREVIOUS APP.	TOTAL PREVIOUS APP.	QUANTITY THIS PERIOD	TOTAL THIS PERIOD				MATERIAL STORED TOTAL THIS PERIOD	TOTAL THIS PERIOD							
BASE BID																					
202-B	Removal of Asphalt Pavement, All Depths	SY	60	\$50.00	\$3,000.00	69.57	\$3,478.50	0	\$0.00		\$0.00	0	\$0.00	\$3,478.50	(\$478.50)		\$173.93				
202-B	Removal of Concrete Pavement, All Depths	SY	260	\$62.00	\$16,120.00	172.35	\$10,685.70	0	\$0.00		\$0.00	0	\$0.00	\$10,685.70	\$5,434.30		\$534.29				
202-B	Removal of Curb & Gutter, All Types	LF	50	\$20.00	\$1,000.00	96.6	\$1,932.00	0	\$0.00		\$0.00	0	\$0.00	\$1,932.00	(\$932.00)		\$96.60				
202-B	Removal of Striping, 6" Equivalent	LF	125	\$20.00	\$2,500.00	0	\$0.00	175	\$3,500.00		\$0.00	0	\$0.00	\$3,500.00	(\$1,000.00)		\$175.00				
203-E	Borrow Excavation, AH, FME, Class B9	CY	150	\$30.00	\$4,500.00	16.9	\$507.00	0	\$0.00		\$0.00	0	\$0.00	\$507.00	\$3,993.00		\$25.35				
203-G	Excess Excavation, FM, AH	CY	120	\$30.00	\$3,600.00	0	\$0.00	80	\$2,400.00		\$0.00	0	\$0.00	\$2,400.00	\$1,200.00		\$120.00				
203-I	Site Grading	SY	50	\$50.00	\$2,500.00	0	\$0.00	50	\$2,500.00		\$0.00	0	\$0.00	\$2,500.00	\$0.00		\$125.00				
304-H	Size 610 Crushed Stone Base, AEA	CY	30	\$80.00	\$2,400.00	17.09	\$1,367.20	0	\$0.00		\$0.00	0	\$0.00	\$1,367.20	\$1,032.80		\$68.36				
211-B	Topsoil for Slope Treatment, Contractor Furnished	CY	60	\$50.00	\$3,000.00	0	\$0.00	60	\$3,000.00		\$0.00	0	\$0.00	\$3,000.00	\$0.00		\$150.00				
216-B	Solid Sodding, Centipede	SY	355	\$10.00	\$3,550.00	0	\$0.00	389	\$3,890.00		\$0.00	0	\$0.00	\$3,890.00	(\$340.00)		\$194.50				
219-A	Watering	KGAL	60	\$30.00	\$1,800.00	0	\$0.00	10	\$300.00		\$0.00	0	\$0.00	\$300.00	\$1,500.00		\$15.00				
234-A	Temporary Silt Fence	LF	415	\$6.00	\$2,490.00	137	\$822.00	0	\$0.00		\$0.00	0	\$0.00	\$822.00	\$1,668.00		\$41.10				
237-A	Wattles, 12"	LF	45	\$10.00	\$450.00	0	\$0.00	0	\$0.00		\$0.00	0	\$0.00	\$0.00	\$450.00		\$0.00				
246-A	Sandbags	EA	50	\$20.00	\$1,000.00	0	\$0.00	0	\$0.00		\$0.00	0	\$0.00	\$0.00	\$1,000.00		\$0.00				
608-A	Concrete Sidewalk, Without Reinforcement	SY	250	\$55.00	\$13,750.00	227.45	\$12,509.75	0	\$0.00		\$0.00	0	\$0.00	\$12,509.75	\$1,240.25		\$625.49				
608-A	Concrete Sidewalk, With Reinforcement	SY	70	\$65.00	\$4,550.00	57.8	\$3,757.00	0	\$0.00		\$0.00	0	\$0.00	\$3,757.00	\$793.00		\$187.85				
608-C	Detectable Warning Panels	SF	155	\$20.00	\$3,100.00	136	\$2,720.00	0	\$0.00		\$0.00	0	\$0.00	\$2,720.00	\$380.00		\$136.00				
609-D	Combination Concrete Curb and Gutter, Type I Modified	LF	150	\$40.00	\$6,000.00	183.98	\$7,359.20	0	\$0.00		\$0.00	0	\$0.00	\$7,359.20	(\$1,359.20)		\$367.96				
609-B	Concrete Curb, Header	LF	20	\$30.00	\$600.00	26	\$780.00	0	\$0.00		\$0.00	0	\$0.00	\$780.00	(\$180.00)		\$39.00				
614-B	Concrete Driveway, With Reinforcement, 6" Thickness	SY	20	\$80.00	\$1,600.00	62.78	\$5,022.40	0	\$0.00		\$0.00	0	\$0.00	\$5,022.40	(\$3,422.40)		\$251.12				
618-A	Maintenance of Traffic	LS	1	\$18,000.00	\$18,000.00	1	\$18,000.00	0	\$0.00		\$0.00	0	\$0.00	\$18,000.00	\$0.00		\$900.00				
618-B	Additional Construction Signs	SF	1	\$10.00	\$10.00	0	\$0.00	0	\$0.00		\$0.00	0	\$0.00	\$0.00	\$10.00		\$0.00				
620-A	Mobilization	LS	1	\$20,000.00	\$20,000.00	1	\$20,000.00	0	\$0.00		\$0.00	0	\$0.00	\$20,000.00	\$0.00		\$1,000.00				
907-630-PP	Pavement Mounted Sign, Flexible Delineator, Per Plans	EA	3	\$1,500.00	\$4,500.00	0	\$0.00	5	\$7,500.00		\$0.00	0	\$0.00	\$7,500.00	(\$3,000.00)		\$375.00				
625-G	Thermoplastic Detail Stripe, White, 6" Equiv.	LF	1260	\$6.00	\$7,560.00	0	\$0.00	1464	\$8,784.00		\$0.00	0	\$0.00	\$8,784.00	(\$1,224.00)		\$439.20				
625-E	Detail Traffic Stripe, White, 6" Equiv.	LF	220	\$6.00	\$1,320.00	0	\$0.00	270	\$1,620.00		\$0.00	0	\$0.00	\$1,620.00	(\$300.00)		\$81.00				
BASE BID TOTAL					\$128,900.00		\$88,940.75		\$33,494.00				\$0.00	\$122,434.75	\$6,465.25		\$6,121.74				

CONSENT OF SURETY TO FINAL PAYMENT

AIA Document G707

OWNER	☐
ARCHITECT	☐
CONTRACTOR	☐
SURETY	☒
OTHER	☐

Bond No. GS52800016

TO OWNER:
(Name and address)

City of Hattiesburg
200 Forrest Street
Hattiesburg, MS 39401

PROJECT:
(Name and address)

Hattiesburg Bus Stops, City of Hattiesburg, Mississippi

ARCHITECT'S PROJECT NO.:

CONTRACT FOR: "same as below"

CONTRACT DATED:

In accordance with the provisions of the Contract between the Owner and the Contractor as indicated above, the
(Insert name and address of Surety)

The Gray Casualty & Surety Company
P.O. Box 6202
Metairie, LA 70009-6202

on bond of
(Insert name and address of Contractor)

Wildstone Construction Services, LLC
P.O. Box 1122
Madison, MS 39130

hereby approves of the final payment to the Contractor, and agrees that final payment to the Contractor shall not relieve the Surety of
any of its obligations to
(Insert name and address of Owner)

City of Hattiesburg
200 Forrest Street
Hattiesburg, MS 39401

as set forth in said Surety's bond.

IN WITNESS WHEREOF, the Surety has hereunto set its hand on this date: July 2, 2020
(Insert in writing the month followed by the numeric date and year.)

cc: Wildstone Construction Services, LLC

The Gray Casualty & Surety Company

The Gray Casualty & Surety Company

(Surety)

By:

(Signature of authorized representative)

Peggy L Jackson

Attorney-in-Fact

(Printed name and title)

Resident MS Agent/Fisher Brown Bottrell Insurance, Inc.



Attest:
(Seal):

Amanda Charfauros, Witness

**THE GRAY INSURANCE COMPANY
THE GRAY CASUALTY & SURETY COMPANY
GENERAL POWER OF ATTORNEY**

KNOW ALL BY THESE PRESENTS, THAT The Gray Insurance Company and The Gray Casualty & Surety Company, corporations duly organized and existing under the laws of Louisiana, and having their principal offices in Metairie, Louisiana, do hereby make, constitute, and appoint: Peggy L Jackson

on behalf of each of the Companies named above its true and lawful Attorney-in-Fact, to make, execute, seal and deliver, for and on its behalf and as its deed, bonds, or other writings obligatory in the nature of a bond, as surety, contracts of suretyship as are or may be required or permitted by law, regulation, contract or otherwise, provided that no bond or undertaking or contract of suretyship executed under this authority shall exceed the amount of \$10,000,000.

Surety Bond Number: GS52800016

Principal: Wildstone Construction Services, LLC

Obligee: City of Hattiesburg

This Power of Attorney is granted and is signed by facsimile under and by the authority of the following Resolutions adopted by the Boards of Directors of both The Gray Insurance Company and The Gray Casualty & Surety Company at meetings duly called and held on the 26th day of June, 2003.

"RESOLVED, that the President, Executive Vice President, any Vice President, or the Secretary be and each or any of them hereby is authorized to execute a power of Attorney qualifying the attorney named in the given Power of Attorney to execute on behalf of the Company bonds, undertakings, and all contracts of surety, and that each or any of them is hereby authorized to attest to the execution of such Power of Attorney, and to attach the seal of the Company; and it is

FURTHER RESOLVED, that the signature of such officers and the seal of the Company may be affixed to any such Power of Attorney or to any certificate relating thereto by facsimile, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be binding upon the Company now and in the future when so affixed with regard to any bond, undertaking or contract of surety to which it is attached.

IN WITNESS WHEREOF, The Gray Insurance Company and The Gray Casualty & Surety Company have caused their official seals to be hereinto affixed, and these presents to be signed by their authorized officers this 12th day of September, 2011.



By:

Michael T. Gray

Michael T. Gray
President, The Gray Insurance Company
and
Vice President,
The Gray Casualty & Surety Company

Attest:

Mark S. Manguno

Mark S. Manguno
Secretary,
The Gray Insurance Company,
The Gray Casualty & Surety Company



State of Louisiana

ss:

Parish of Jefferson

On this 12th day of September, 2011, before me, a Notary Public, personally appeared Michael T. Gray, President of The Gray Insurance Company and Vice President of The Gray Casualty & Surety Company, and Mark S. Manguno, Secretary of The Gray Insurance Company and The Gray Casualty & Surety Company, personally known to me, being duly sworn, acknowledged that they signed the above Power of Attorney and affixed the seals of the companies as officers of, and acknowledged said instrument to be the voluntary act and deed, of their companies.



Lisa S. Millar

Lisa S. Millar, Notary Public, Parish of Orleans
State of Louisiana
My Commission is for Life

I, Mark S. Manguno, Secretary of The Gray Insurance Company and The Gray Casualty & Surety Company, do hereby certify that the above and forgoing is a true and correct copy of a Power of Attorney given by the companies, which is still in full force and effect.

IN WITNESS WHEREOF, I have set my hand and affixed the seals of the Companies this 2nd day of July, 2020



Mark S. Manguno

Mark S. Manguno, Secretary
The Gray Insurance Company
The Gray Casualty & Surety Company



July 2, 2020

Neel-Schaffer, Inc.
Attn: Geoffrey Crosby
P.O. Box 1487
Hattiesburg, MS 39403-1487

Re: Hattiesburg Bus Stops
City of Hattiesburg

Mr. Crosby:

Wildstone Construction Services, LLC certifies that all subcontractors and all project related debts in connection with the project have been paid in full, and there are no liens that have been filed against the project. All work has been completed in accordance with the plans and specifications for the project.

Wildstone Construction Services, LLC warrants and guarantees to the Owner (City of Hattiesburg) that all work was built in accordance with the Contract Documents and will not be defective. The one year construction warranty period for this project began on May 13, 2020 and will end on May 13, 2021.

Sincerely,

Emily B. Rut

Emily B. Rut
President



Rhonda J. Foxx
Notary Public in the
County of Madison
State of Mississippi
My Commission Expires:
August 3, 2020



Memorandum

To: Mayor Toby Barker and Members of City Council

From: Lamar Rutland

cc:

Date: Tuesday, August 4, 2020

Re: Approve Agreement with the Natural Resources Conservation Services for an Emergency Watershed Protection (EWP) Project at Creekside Manor for a total cost of \$67,000.00 of which \$50,250.00 is Federally funded and \$16,750.00 is City funded and authorize the Mayor to execute any and all documents required for the project pre-application, application, and other required documents.
File Number: 2020-524
Minute Book #

Summary

Approve agreement with the Natural Resources Conservation Services for an Emergency Watershed Protection (EWP) Project at 108 Creekside Manor for a total cost of \$67,000.00 of which \$50,250.00 is Federally funded and \$16,750.00 is City funded; Authorize Mayor to execute any and all documents required for the project pre-application, application, and other required documents.

Recommendation Statement

I recommend approval of this item.

Please place this on the August 4, 2020 City Council meeting for consideration.

**PLEASE COMPLETE HIGHLIGHTED AREAS AND PLACE DOCUMENT ON
SPONSOR LETTERHEAD BEFORE RETURNING**

December 30, 2019 (Don't edit this date)

Kurt Readus, State Conservationist
Natural Resources Conservation Service
100 W. Capitol Street, Suite 1321
Jackson, MS 39269-1602

RE: Emergency Watershed Protection (EWP) Assistance Request

Dear Mr. Readus:

We are requesting Federal assistance under the provisions of Section 216 of the Flood Control Act of 1950, Public Law 81-516 or Section 403 of the Agricultural Credit Act Of 1978, Public Law 95-334, to restore damages sustained in **City of Hattiesburg** by the extreme rainfall that occurred during **December 16, 2019** storm event. Roads, streams, utilities and structures in our area were adversely impacted as a result of this storm event.

We understand that as sponsors of an Emergency Watershed Protection (EWP) Program project, our responsibilities will include acquiring land rights and potentially any permits needed for construction. We also agree to operate and maintain the proposed measures. We are prepared to provide local funding and support for the cost of construction work in dollars.

The administrative and technical contact person for our organization is:

NAME, TITLE

MAILING ADDRESS

PHONE

E-MAIL

Thank you for your consideration of our request

Sincerely,

SIGNATURE

PRINT NAME

RECIPIENT CONTACT INFORMATION

RECIPIENT ORGANIZATION NAME: City of Hattiesburg

Recipient Project Manager for Agreement
Name:
Title:
Street Address:
City:
Zip Code:
PO Box:
Zip Code:
Office Phone:
Cell Phone:
Fax Number:
Email Address:

Recipient Financial Point of Contact
Name:
Title:
Street Address:
City:
Zip Code:
PO Box:
Zip Code:
Office Phone:
Cell Phone:
Fax Number:
Email Address:

Recipient Official Authorized to Sign the Agreement
Name:
Title:
Street Address:
City:
Zip Code:
PO Box:
Zip Code:
Office Phone:
Cell Phone:
Fax Number:
Email Address:

Approved EWP Site Agreement Package Instructions and Checklist for Sponsors Federal Contract

Sponsor: City of Hattiesburg

EWP Site Name: 108 Creekside Manor

The EWP site listed above that you submitted has been approved for funding by NRCS. In order to efficiently move forward with the requirements associated with this site being approved, the following checklist has been developed to assist you (the sponsor) in providing NRCS with the required items needed to ensure continued funding and project completion. Failure to provide the items listed below will delay the start of your project and could result in the termination of project funding if applicable deadlines are not met.

Attached behind this checklist are the following items that will need to be properly filled out and the originals returned to NRCS. Please use this checklist as a guide to ensure that the documents are completed according to the instructions given and that you have completed each required document.

Document Checklist and Instructions:

____ **1. NRCS-ADS-78:** This two page document should be signed on page 2 by the Mayor (for city projects) or the President of the Board of Supervisors (for county projects) and attested by the chancery clerk.

____ **2. Title of Opinion:** Attached with this package is a sample title of opinion letter which is simply an example of what a title of opinion looks like. Your city attorney or county attorney must copy the sample letter's paragraph onto the attorney's official letterhead and sign it. The attorney is certifying that the sponsor has acquired the temporary easements necessary for a contractor to complete the project.

____ **3. Operation and Maintenance Agreement:** This three page agreement should be signed on page 3 by the Mayor (for city projects) or the President of the Board of Supervisors (for county projects) and attested by the chancery clerk.

____ **4. Operation and Maintenance Plan:** This two page document should simply be reviewed by the sponsor and returned.

Keep in mind that there are deadlines associated with this project funding and each project must be completed within 220 days of funding. So your prompt return of the above documents will prevent loss of funding and ensure that the project is completed in the 220 day timeframe.

Please return this completed checklist along with all of the properly filled out documents listed above electronically to Norman Patterson as follows: norman.patterson@ms.usda.gov

Or mail to: Natural Resources Conservation Service
ATTN: Norman Patterson
113 Fairfield Suite 110
Hattiesburg,

**ASSURANCES RELATING TO
REAL PROPERTY ACQUISITION**

A. PURPOSE - This form is to be used by sponsor(s) to provide the assurances to the Natural Resources Conservation Service of the U.S. Department of Agriculture which is required in connection with the installation project measures which involve Federal financial assistance furnished by the Natural Resources Conservation Service.

B. PROJECT MEASURES COVERED -

Name of project: DSR: 28-04-19-5289-329

Identity of improvement or development: Erosion Control

Location: Forrest Co. – Site(s): 108 Creekside Manor

C. REAL PROPERTY ACQUISITION ASSURANCE -

This assurance is applicable if real property interests were acquired for the installation of project measures, and/or if persons, businesses, or farm operations were displaced as a result of such installation; and this assurance was not previously provided for in the watershed, project measure, or other type of plan.

If this assurance was not previously provided, the undersigned sponsor(s) hereby assures they have complied, to the extent practicable under State law, with the requirements of the Uniform Relocation Assistance and Real Property Acquisition Policies Act (42 U.S.C. 4601-4655), as implemented in 7 C.F.R. Part 21. Any exceptions taken from the real property acquisition requirements under the authority of 42 U.S.C. 4655 because of State law have been or are hereby furnished to the Natural Resources Conservation Service along with the opinion of the Chief Legal Officer of the State containing a full discussion of the facts and law furnished.

D. ASSURANCE OF ADEQUACY OF REAL PROPERTY RIGHTS -

The undersigned sponsor(s) hereby assures that adequate real property rights and interests, water rights if applicable, permits and licenses required by Federal, State, and local law, ordinance or regulation, and related actions have been taken to obtain the legal right to install, operate, maintain, inspect and inspect the above-described project measures, except for structures or improvements that are to be removed, relocated, modified, or salvaged before and/or during the installation process.

This assurance is given with the knowledge that sponsor(s) are responsible for any excess costs or other consequences in the event the real property rights are found to be inadequate during the installation process.

Furthermore, this assurance is supported by an attorney's opinion attached hereto that certifies an examination of the real property instruments and files was made and they were found to provide adequate title, right, permission and authority for the purpose(s) for which the property was acquired.

If any of the real property rights or interests were obtained by condemnation (eminent domain) proceedings, sponsor(s) further assure and agree to prosecute the proceedings to a final conclusion and pay such damages as awarded by the court.

Page 2 of 2 - ADS-78 Assurances Relating to Real Property Acquisition

City of Hattiesburg

(Name of Sponsor)

By: _____
(Signature)

Title: _____

Date: _____

This action is authorized at an official meeting
of the _____

on ____ day of _____, 20____

State of Mississippi

Attest

(Name)

(Title)

SAMPLE-
PLEASE TYPE ON ATTORNEY'S LETTERHEAD

"TITLE OF OPINION"

TO: USDA, Natural Resources Conservation Service
Suite 1321, Federal Building
100 West Capitol Street
Jackson, MS 39269

RE: **City of Hattiesburg (MS):**

108 Creekside Manor (Forrest County):

As attorney for and on behalf of the _____, I
(Sponsor)

hereby certify that I have examined the real property instruments and files that relate to the right-of-way of the sponsors to enter upon, construct, and operate and maintain the works of improvement above, and find them to provide adequate title, right, permission, and authority for the purpose for which these instruments were acquired.

Attorney -

Date _____

Watershed: City of Hattiesburg

OPERATION AND MAINTENANCE AGREEMENT

This agreement is entered into by and between the Natural Resources Conservation Service, United States Department of Agriculture, hereinafter referred to as NRCS, and the following organization(s), hereinafter referred to as the Sponsor(s):

City of Hattiesburg (MS)

The Sponsor(s) and the Service agree to carry out the terms of this agreement for the operation and maintenance of the project measures in the State of Mississippi. The project measures covered by this agreement are identified as follows: Streambank stabilization with rock riprap- 108 Creekside Manor.

I. OPERATIONS

- A. The Sponsor(s) will be responsible for operating the measure without cost to the Service as follows:
 - 1. In compliance with applicable Federal, State and local laws;
 - 2. In compliance with the conditions set out in the instruments by which rights were acquired to install, operate and maintain the measure(s);
 - 3. In a manner that will protect the environment and permit the measure(s) to serve the purpose for which installed as set forth in the program agreement;
 - 4. In keeping with the requirements to provide inspection, operation and maintenance reports within the time frame provided in the attached plan.
- B. The Service will, upon request of the Sponsor(s) and to the extent that its resources permit, provide consultative assistance in the operation of the structural measures.
- C. Admission or users fees shall be charged only as necessary to produce revenues required by the Sponsor(s) to amortize its share of installation costs for that portion of the measures pertaining to recreation of fish and wildlife and to provide adequate inspection, operation, maintenance, and replacement of the same.
- D. In a recreation or fish and wildlife measure the Sponsor(s) may dispense such services and commodities, or arrange with private concessionaires for the dispensing of such services and commodities, which will contribute to the full use and enjoyment of the measure by the public at prices which are reasonable and compatible with prices for similar services and commodities within the area served by the measure.

II. MAINTENANCE

- A. The Sponsor(s) will:

1. Be responsible for and promptly perform or have performed without cost to the Service all maintenance of the measures determined by either the Sponsor(s) or the Service to be needed.
 2. Obtain prior Service approval of all plans, designs and specifications for maintenance work.
- B. The Service will upon request of the Sponsor(s) and to the extent that its resources will permit, provide consultative assistance in the maintenance of the measure(s).

III. REPLACEMENT

- A. The Sponsor(s) will be responsible for the replacement of parts or portions of the measure(s) which has a physical life of less duration than the evaluated life of the measure(s).
- B. The Service will upon request of the Sponsor(s), provide consultative assistance in the replacement of measure parts or portions.

IV. PLAN OF OPERATION AND MAINTENANCE

The Service and the Sponsor(s) will prepare a detailed plan of operation and maintenance for each measure covered by the agreement. More than one measure may be included in a single plan provided that the measures are sufficiently similar to warrant such action. Each such plan shall be attached to become a part of this agreement.

V. INSPECTIONS AND REPORTS

- A. The sponsor(s) will inspect the measures at least annually and after each major storm or occurrence of any unusual conditions that might adversely affect the measure(s).
- B. The Service or Federal land administering agency may inspect the measures at any reasonable time during the period covered by this agreement. At the discretion of the State Conservationist, Service personnel may assist the Sponsor(s) in their inspection.
- C. A written report will be made of each inspection. A copy of each report will be provided by the inspecting party to the other party within ten days of the date on which the inspection was made. The report will describe the conditions found and list any corrective action needed with a time frame to complete each action.

VI. TIME OF RESPONSIBILITY

The Sponsor(s)' responsibility for operation and maintenance begins when a part of or all of the work of installing a measure is completed and accepted or is determined complete by the Service. This responsibility shall continue until the expiration of the evaluated life of all the installed project measures. This does not relieve the Sponsor(s)' liability which continues throughout the life of the measure or until the measure is modified to remove potential loss of life or property.

VII. RECORDS

The Sponsor(s) will maintain in a centralized location a record of all inspections and significant actions taken, cost of performance and completion date with respect to

operation, maintenance and replacement. The Service may inspect these records at any reasonable time during the term of the agreement.

VIII. GENERAL

- A. The Sponsor(s) will:
 - 1. Prohibit the installation of any structure or facilities that will interfere with the operation or maintenance of the project measures.
 - 2. Obtain prior Service approval of the plans and specifications for any alteration or improvement to the structural measures.
 - 3. Obtain prior Service approval of any agreement to be entered into with other parties for the operation or maintenance of all or any part of the agreement after it has been signed by the Sponsor(s) and the other party.
- B. Service personnel will be provided the right to free access to the project measures at any reasonable time for the purpose of carrying out the terms of this agreement.
- C. The responsibilities of the Sponsor(s) under this agreement are effective simultaneously with the acceptance of the project measures in whole or part.
- D. Comply with the attached PROPERTY MANAGEMENT STANDARDS.

Name of Sponsor: **City of Hattiesburg (MS)**

By: _____ Title: _____ Date: _____

This action was authorized at an official meeting of the Sponsor named immediately above on _____ at _____

Attest: _____ Title: _____

Natural Resources Conservation Service, United States Department of Agriculture

By: _____ Title: _____ Date: _____

OPERATION AND MAINTENANCE PLAN

City of Hattiesburg
108 Creekside Manor

I. Operation

The Sponsors will operate this measure in accordance with the terms of the Operation and Maintenance Agreement. This includes the administration, management, and performance of nonmaintenance actions needed to keep completed works of improvement functioning as planned.

II. Maintenance

- A. The channel should be maintained in such a way as to keep it free of any debris, silt bars or other obstructions that will reduce its capacity. Bank stabilization measures should be used to prevent erosion. The undesirable vegetation should be cut or sprayed with approved herbicides and removed from the channel. An access road should be maintained alongside the channel for easy maintenance.
- B. It is anticipated that the following items of maintenance, repair, or replacement will be needed during the effective life of the measure.
 - 1. Vegetation:
 - a. Reseed, resod, and fertilize areas of stand or areas destroyed by erosion, freezing, or drought. If necessary, restore eroded areas before reseeding.
 - b. Cut or spray with approved herbicide and remove undesirable vegetation. Observe local ordinances regarding spraying and burning.
 - c. Fertilize vegetation as required to maintain a vigorous stand.
 - d. Control grazing to insure proper vegetative cover.
 - e. Mow grass at regular intervals to maintain optimum cover.
 - 2. Channels - lined and unlined
 - a. Remove sand and gravel bars and properly dispose of them outside the channel perimeter.
 - b. Remove and properly dispose of debris. Give special attention to removal and proper disposal of debris and repair erosion damage at structures.
 - c. Replace, reinforce, or extend riprap where needed. Make repairs to grade control structures where needed.
 - d. Keep access roads for maintenance and maintenance travel ways in usable condition.
 - e. Maintain dikes and spoil to divert water to protected inlets and prevent overbank flow.
 - f. Renovate channel banks damaged by storm flow.
 - g. Rehabilitate damaged pipe inlets from fields or side channels. Replace eroded soil adjacent to structures.
- C. The estimated average annual cost of providing the necessary maintenance for this measure is \$200.00. Funds to finance this cost will be provided by the City of Hattiesburg, from general tax revenues.

- D. The **City of Hattiesburg** will be responsible for and promptly perform or have performed all maintenance of the measure determined by either the Sponsors or the Service to be needed.
- The **City of Hattiesburg**, with consulting assistance from the Natural Resources Conservation Service, will assist in the maintenance which can be accomplished with normal farm equipment such as removal of debris, control of undesirable vegetation, controlled grazing and mowing, and fertilizing vegetation.
- E. The measure will be inspected at least annually and after unusually severe floods or the occurrence of any other unusual condition that might adversely affect the measure. Annual inspections will be performed during the month of July. Annual and special inspections will include but not be limited to an examination of the following items.
1. Stability of channel grades and side slopes
 2. Excessive sedimentation
 3. Condition of rip-rapped areas
 4. Obstructions and undesirable vegetative growth
 5. Scour at bridge piers, abutments and other adjacent property
 6. Severity of erosion of berms and undesirable vegetative growth
 7. Condition of cleared and snagged areas
 8. Condition of fences and gates
- F. A written report will be made of each inspection as provided in the O&M Agreement. A follow-up report will be provided when all corrective action has been accomplished.
- G. The requirements will remain in effect until the expiration of the effective life of the measure based on a mutual determination of the Sponsors and the Service.
- H. Service personnel will assist the Sponsors on annual and special inspections until such time as the State Conservationist determines that Service participation is no longer necessary. At this time, he will so notify the Sponsor in writing. This notice will constitute an amendment to the Plan.
- I. Each sponsoring organization that has responsibility for O&M of any project measure will be furnished an Operation and Maintenance Handbook. The handbook is to acquaint Sponsors with the essentials of operating and maintaining their projects. The information and suggestions can help Sponsors understand the jobs and how to carry them out in a timely and efficient manner.

Application for Federal Assistance SF-424

*** 1. Type of Submission:**

- ☐ Preapplication
☒ Application
☐ Changed/Corrected Application

*** 2. Type of Application:**

- ☒ New
☐ Continuation
☐ Revision

*** If Revision, select appropriate letter(s):**

*** Other (Specify):**

*** 3. Date Received:**

4. Applicant Identifier:

5a. Federal Entity Identifier:

5b. Federal Award Identifier:

State Use Only:

6. Date Received by State:

7. State Application Identifier:

8. APPLICANT INFORMATION:

*** a. Legal Name:**

Sponsor Name Here

*** b. Employer/Taxpayer Identification Number (EIN/TIN):**

*** c. Organizational DUNS:**

d. Address:

*** Street1:**

Street2:

*** City:**

County/Parish:

*** State:**

Province:

*** Country:**

USA: UNITED STATES

*** Zip / Postal Code:**

e. Organizational Unit:

Department Name:

Division Name:

f. Name and contact information of person to be contacted on matters involving this application:

Prefix:

*** First Name:**

Middle Name:

*** Last Name:**

Suffix:

Title:

Organizational Affiliation:

*** Telephone Number:**

Fax Number:

*** Email:**

Application for Federal Assistance SF-424

* 9. Type of Applicant 1: Select Applicant Type:

Type of Applicant 2: Select Applicant Type:

Type of Applicant 3: Select Applicant Type:

* Other (specify):

* 10. Name of Federal Agency:

USDA, Natural Resources Conservation Service

11. Catalog of Federal Domestic Assistance Number:

10.923

CFDA Title:

Emergency Watershed Protection Program

* 12. Funding Opportunity Number:

N/A

* Title:

N/A

13. Competition Identification Number:

N/A

Title:

N/A

14. Areas Affected by Project (Cities, Counties, States, etc.):

Add Attachment

Delete Attachment

View Attachment

* 15. Descriptive Title of Applicant's Project:

Attach supporting documents as specified in agency instructions.

Add Attachments

Delete Attachments

View Attachments

Application for Federal Assistance SF-424**16. Congressional Districts Of:**

* a. Applicant

* b. Program/Project

Attach an additional list of Program/Project Congressional Districts if needed.

Add Attachment

Delete Attachment

View Attachment

17. Proposed Project:

* a. Start Date:

* b. End Date:

18. Estimated Funding (\$):

* a. Federal

* b. Applicant

* c. State

* d. Local

* e. Other

* f. Program Income

* g. TOTAL

*** 19. Is Application Subject to Review By State Under Executive Order 12372 Process?**☐ a. This application was made available to the State under the Executive Order 12372 Process for review on☐ b. Program is subject to E.O. 12372 but has not been selected by the State for review.☒ c. Program is not covered by E.O. 12372.*** 20. Is the Applicant Delinquent On Any Federal Debt? (If "Yes," provide explanation in attachment.)**☐ Yes☐ No

If "Yes", provide explanation and attach

Add Attachment

Delete Attachment

View Attachment

21. *By signing this application, I certify (1) to the statements contained in the list of certifications and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances** and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U.S. Code, Title 218, Section 1001)**

☐ ** I AGREE

** The list of certifications and assurances, or an internet site where you may obtain this list, is contained in the announcement or agency specific instructions.

Authorized Representative:

Prefix:

* First Name:

Middle Name:

* Last Name:

Suffix:

* Title:

* Telephone Number:

Fax Number:

* Email:

* Signature of Authorized Representative:

* Date Signed:

Application for Federal Assistance SF-424

*** 1. Type of Submission:**

- ☐ Preapplication
☐ Application
☐ Changed/Corrected Application

*** 2. Type of Application:**

- ☐ New
☐ Continuation
☐ Revision

* If Revision, select appropriate letter(s):

* Other (Specify):

* 3. Date Received:

4. Applicant Identifier:

5a. Federal Entity Identifier:

5b. Federal Award Identifier:

State Use Only:

6. Date Received by State:

7. State Application Identifier:

8. APPLICANT INFORMATION:

* a. Legal Name:

* b. Employer/Taxpayer Identification Number (EIN/TIN):

* c. Organizational DUNS:

d. Address:

* Street1:

Street2:

* City:

County/Parish:

* State:

Province:

* Country:

 USA: UNITED STATES

* Zip / Postal Code:

e. Organizational Unit:

Department Name:

Division Name:

f. Name and contact information of person to be contacted on matters involving this application:

Prefix:

* First Name:

Middle Name:

* Last Name:

Suffix:

Title:

Organizational Affiliation:

* Telephone Number:

Fax Number:

* Email:

Application for Federal Assistance SF-424

* 9. Type of Applicant 1: Select Applicant Type:

Type of Applicant 2: Select Applicant Type:

Type of Applicant 3: Select Applicant Type:

* Other (specify):

* 10. Name of Federal Agency:

11. Catalog of Federal Domestic Assistance Number:

CFDA Title:

* 12. Funding Opportunity Number:

* Title:

13. Competition Identification Number:

Title:

14. Areas Affected by Project (Cities, Counties, States, etc.):

Add Attachment

Delete Attachment

View Attachment

* 15. Descriptive Title of Applicant's Project:

Attach supporting documents as specified in agency instructions.

Add Attachments

Delete Attachments

View Attachments

Application for Federal Assistance SF-424

16. Congressional Districts Of:

* a. Applicant

* b. Program/Project

Attach an additional list of Program/Project Congressional Districts if needed.

Add Attachment

Delete Attachment

View Attachment

17. Proposed Project:

* a. Start Date:

* b. End Date:

18. Estimated Funding (\$):

* a. Federal

* b. Applicant

* c. State

* d. Local

* e. Other

* f. Program Income

* g. TOTAL

* 19. Is Application Subject to Review By State Under Executive Order 12372 Process?

☐ a. This application was made available to the State under the Executive Order 12372 Process for review on

☐ b. Program is subject to E.O. 12372 but has not been selected by the State for review.

☐ c. Program is not covered by E.O. 12372.

* 20. Is the Applicant Delinquent On Any Federal Debt? (If "Yes," provide explanation in attachment.)

☐ Yes

☐ No

If "Yes", provide explanation and attach

Add Attachment

Delete Attachment

View Attachment

21. *By signing this application, I certify (1) to the statements contained in the list of certifications** and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances** and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U.S. Code, Title 218, Section 1001)

☐ ** I AGREE

** The list of certifications and assurances, or an internet site where you may obtain this list, is contained in the announcement or agency specific instructions.

Authorized Representative:

Prefix:

* First Name:

Middle Name:

* Last Name:

Suffix:

* Title:

* Telephone Number:

Fax Number:

* Email:

* Signature of Authorized Representative:

* Date Signed:

Please wait...

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Memorandum

To: Mayor Toby Barker and Members of City Council

From: Lamar Rutland

cc:

Date: Tuesday, August 4, 2020

Re: Approve Joint-Funding Agreement for the period of October 1, 2020 to September 30, 2021 to continue the cooperative program between the U.S. Geological Survey (USGS) and the City of Hattiesburg for the operation and maintenance of the Bouie River Flood Monitoring Site at Glendale Avenue, and for hydrologic modeling and development of inundation maps for the Leaf River, with total cost to the City of \$6,500.00 and authorize the Mayor to execute in duplicate.
File Number: 2020-504
Minute Book #

Summary

Approve Joint-Funding Agreement for the period of October 1, 2020 to September 30, 2021 to continue the cooperative program between the U.S. Geological Survey (USGS) and the City of Hattiesburg for the operation and maintenance of the Bouie River Flood Monitoring Site at Glendale Avenue, and for hydrologic modeling and development of inundation maps for the Leaf River, with total cost to the City of \$6,500.00 and authorize the Mayor to execute in duplicate.

Recommendation Statement

I recommend approval of this item.

Please place this on the August 4, 2020 City Council meeting for consideration.



United States Department of the Interior

U.S. GEOLOGICAL SURVEY
Lower Mississippi-Gulf Water Science Center
Jackson Office
308 South Airport Road
Jackson, MS. 39208

July 22, 2020

Mr. Lamar Rutland, P.E., City Engineer
City of Hattiesburg
P.O. Box 1898
Hattiesburg, MS 39403-1898

Dear Mr. Rutland:

Enclosed are two copies of a Joint-Funding Agreement for the period of October 1, 2020 to September 30, 2021 to continue the cooperative program between the U.S. Geological Survey (USGS) and the City of Hattiesburg. This agreement will provide funding for the operation and maintenance of a flood monitoring site on the Bouie River at Glendale Avenue. The Bouie River flood monitoring site will provide real-time river stage data via the USGS Web site during flood events and will be utilized by the National Weather Service to provide flood forecast information to local residents and emergency managers during future flood events. The operating costs for FY21 for this site will remain the same as for the previous year at \$11,250 which will be shared by the City of Hattiesburg (\$6,500) and USGS (\$4,750).

Work performed with funds from this agreement will be operated on a fixed price basis and will be billed annually. The results of work under this agreement will be available for publication by the U.S. Geological Survey.

If this proposed program meets your approval, please sign and return one copy of this agreement to the attention of Markeshia Watson, at the address of **3535 S. Sherwood Forest Ste. 120 Blvd. Baton Rouge, LA. 70816**

Your technical point of contact for this agreement will continue to be Michael Runner at 601-933-2941. For administrative or billing matters, please contact Markeshia 225-615-6305.

Sincerely,

DIANNA
HOGAN
Digitally signed by
DIANNA HOGAN
Date: 2020.07.23
08:38:19 -04'00'
Dianna Hogan, Acting Director
LMG Water Science Center

Attachments

Updated May
2018

**U.S. Department of the Interior
U.S. Geological Survey
Joint Funding Agreement
FOR
Water Resource Investigations**

**Customer #: 6000001885
Agreement #: 21MLJFAMSDA088
Project #: ML009Z5
TIN #: 64-6000432**

Fixed Cost Agreement YES[X] NO[]

THIS AGREEMENT is entered into as of the October 1, 2020, by the U.S. GEOLOGICAL SURVEY, Lower Mississippi-Gulf Water Science Center, UNITED STATES DEPARTMENT OF THE INTERIOR, party of the first part, and the City of Hattiesburg, MS party of the second part.

1. The parties hereto agree that subject to the availability of appropriations and in accordance with their respective authorities there shall be maintained in cooperation Water Resource Investigations (per attachment), herein called the program. The USGS legal authority is 43 USC 36C; 43 USC 50, and 43 USC 50b.

2. The following amounts shall be contributed to cover all of the cost of the necessary field and analytical work directly related to this program. 2(b) include In-Kind-Services in the amount of \$0.00

- (a) \$4,750 by the party of the first part during the period
October 1, 2020 to September 30, 2021
- (b) \$6,500 by the party of the second part during the period
October 1, 2020 to September 30, 2021
- (c) Contributions are provided by the party of the first part through other USGS regional or national programs, in the amount of: \$0

Description of the USGS regional/national program:

- (d) Additional or reduced amounts by each party during the above period or succeeding periods as may be determined by mutual agreement and set forth in an exchange of letters between the parties.
- (e) The performance period may be changed by mutual agreement and set forth in an exchange of letters between the parties.

3. The costs of this program may be paid by either party in conformity with the laws and regulations respectively governing each party.

4. The field and analytical work pertaining to this program shall be under the direction of or subject to periodic review by an authorized representative of the party of the first part.

5. The areas to be included in the program shall be determined by mutual agreement between the parties hereto or their authorized representatives. The methods employed in the field and office shall be those adopted by the party of the first part to insure the required standards of accuracy subject to modification by mutual agreement.

6. During the course of this program, all field and analytical work of either party pertaining to this program shall be open to the inspection of the other party, and if the work is not being carried on in a mutually satisfactory manner, either party may terminate this agreement upon 60 days written notice to the other party.

7. The original records resulting from this program will be deposited in the office of origin of those records. Upon request, copies of the original records will be provided to the office of the other party.

8. The maps, records or reports resulting from this program shall be made available to the public as promptly as possible. The maps, records or reports normally will be published by the party of the first part. However, the party of the second part reserves the right to publish the results of this program, and if already published by the party of the first part shall, upon request, be furnished by the party of the first part, at cost, impressions suitable for purposes of reproduction similar to that for which the original copy was prepared. The maps, records or reports published by either party shall contain a statement of the cooperative relations between the parties. The Parties acknowledge that scientific information and data developed as a result of the Scope of Work (SOW) are subject to applicable USGS review, approval, and release requirements, which are available on the USGS Fundamental Science Practices website (<https://www.usgs.gov/about/organization/science-support/science-quality-and-integrity/fundamental-science-practices>).

U.S. Department of the Interior
U.S. Geological Survey
Joint Funding Agreement
FOR

Customer #: 6000001885
Agreement #: 21MLJFAMSDA088
Project #: ML009Z5
TIN #: 64-6000432

Water Resource Investigations

9. Billing for this agreement will be rendered annually. Invoices not paid within 60 days from the billing date will bear Interest, Penalties, and Administrative cost at the annual rate pursuant the Debt Collection Act of 1982, (codified at 31 U.S.C. § 3717) established by the U.S. Treasury.

USGS Technical Point of Contact

Name: Michael Runner
Supervisory Hydrologist
Address: 308 S. Airport Road
Jackson, MS 39208
Telephone: (601) 933-2941
Fax: (601) 933-2901
Email: msrunner@usgs.gov

Customer Technical Point of Contact

Name: Lamar Rutland
P.E., City Engineer
Address: P.O. Box 1898
Hattiesburg, MS 39403-1898
Telephone: (601) 545-4640
Fax:
Email:

USGS Billing Point of Contact

Name: Markeshia Watson
Administrative Specialist
Address: 3535 South Sherwood Forest Blvd.
Baton Rouge, LA 70816
Telephone: (225) 298-5481 Ext 3106
Fax:
Email: mwatson@usgs.gov

Customer Billing Point of Contact

Name: Lamar Rutland
P.E., City Engineer
Address: P.O. Box 1898
Hattiesburg, MS 39403-1898
Telephone: (601) 545-4640
Fax:
Email:

U.S. Geological Survey
United States
Department of Interior

City of Hattiesburg, MS

Signature
Digitally signed by
DIANNA HOGAN
Date: 2020.07.23
08:39:22 -04'00'
By DIANNA HOGAN
Name: Dianna Hogan
Title: Acting Director, LMG Water Science Center

Signatures
By _____ Date: _____
Name:
Title:

By _____ Date: _____
Name:
Title:

By _____ Date: _____
Name:
Title:



Memorandum

To: Mayor Toby Barker and Members of City Council

From: Andrew Ellard, Director

cc:

Date: Tuesday, August 4, 2020

Re: Approve Cancellation of Deed of Trust from Karen Clark, Grantor, for property at 18 Annie Christie Drive, to City of Hattiesburg, Beneficiary, recorded in the Deed of Trust Book 1700 at Page 0503-0506 in the office of the Chancery Clerk of Forrest County, Mississippi, from a HOME-eligible buyer and authorize the Mayor to execute the same.
File Number: 2020-510
Minute Book #

Summary

Approve Cancellation of Deed of Trust from Karen Clark, Grantor, for property at 18 Annie Christie Drive, to City of Hattiesburg, Beneficiary, recorded in the Deed of Trust Book 1700 at Page 0503-0506 in the office of the Chancery Clerk of Forrest County, Mississippi, from a HOME-eligible buyer and authorize the Mayor to execute the same.

Recommendation Statement

I recommend the execution of the cancellation of Deed of Trust from Karen Clark HOME-eligible buyer. {Entitlement}

Please place this on the August 4, 2020 City Council meeting for consideration.

CANCELLATION OF DEED OF TRUST

Prepared by:

Stephanie Campos
City of Hattiesburg – Urban Development
200 Forrest Street
Hattiesburg, Mississippi 39401
(601) 545-4675

Return to:

Petra Wingo
City of Hattiesburg – Community Development
200 Forrest Street
Hattiesburg, Mississippi 39401
(601) 545-4558

Grantor/Mortgagor: Karen Clark

18 Annie Christie Drive
Hattiesburg, Mississippi 39401
(601) 299-0398

Grantee/Mortgagee: City of Hattiesburg – Community Development

200 Forrest Street
Hattiesburg, Mississippi 39401
(601) 545-4558

Abbreviated Legal Description: Lot 8 of Block 2 of the Evansville Subdivision of Forrest County, Mississippi.

STATE OF MISSISSIPPI

COUNTY OF FORREST

CANCELLATION OF LIEN OF DEED OF TRUST

KNOW ALL MEN BY THESE PRESENTS: That the **CITY OF HATTIESBURG**,

the beneficiary in that certain lien of deed of trust executed by Patricia Bryant as follows:

FILED:	June 18, 2009
BOOK:	1700
PAGE:	0503 - 0506
GRANTOR:	Karen Clark
TRUSTEE:	Charles E. Lawrence, Jr.
BENEFICIARY:	City of Hattiesburg
AMOUNT:	\$5,000.00

in the office of the Chancery Clerk of Forrest County, Mississippi, is now fully paid and satisfied; and the Clerk of Chancery Court of Forrest County, Mississippi, is hereby authorized to enter satisfaction and certificate of payment in full upon said instrument and that this order be recorded in the records of said County as is provided by law.

Legal Description:

Lot Eight (8) of Block Two (2), Evansville Subdivision of Forrest County, Mississippi, as per plat or map on file in the office of Chancery Clerk of Forrest County, Mississippi, Section 22, Township 4 North, Range 13 West.

.

IN WITNESS WHEREOF, this instrument is executed on this the 4th day of

August, 2020.

CITY OF HATTIESBURG

BY: _____
TOBY BARKER, MAYOR

ATTEST:

Kermas Eaton, City Clerk

STATE OF MISSISSIPPI

COUNTY OF FORREST

Personally appeared before me, the undersigned authority in and for said county and state, on this the 4th day of August 2020, the within named **TOBY BARKER**, who acknowledged that he is the **MAYOR OF THE CITY OF HATTIESBURG**, and that for and on behalf of said corporation, and as its act and deed he executed the above and foregoing instrument, after first having been duly authorized by said corporation so to do.

NOTARY PUBLIC

MY COMMISSION EXPIRES:



Memorandum

To: Mayor Toby Barker and Members of City Council

From: Lamar Rutland

cc:

Date: Tuesday, August 4, 2020

Re: Approve renewal of contract (for one year) with Debristech, LLC for Debris Monitoring services in the event of a disaster and authorize the Mayor to execute in duplicate.
File Number: 2020-514
Minute Book #

Summary

Approve renewal of contract (for one year) with Debristech, LLC for Debris Monitoring services in the event of a disaster and authorize the Mayor to execute in duplicate.

Recommendation Statement

I recommend approval of this item.

Please place this on the August 4, 2020 City Council meeting for consideration.

INDEPENDENT CONTRACTOR AGREEMENT EXTENSION

THIS AGREEMENT EXTENSION is made and entered into effective as of the 2nd day of July, 2020, by and between the CITY OF HATTIESBURG, MISSISSIPPI (the "City"), and DEBRISTECH, LLC, a Mississippi limited liability company (the "Contractor").

WITNESSETH

WHEREAS, the parties entered into a certain Contractor Agreement for Disaster Debris Removal Services on the 19th day of August, 2019.

WHEREAS, the parties agree to extend the term of the Contractor Agreement in accordance with the terms set forth below.

NOW, THEREFORE, in consideration of the mutual covenants contained herein, the parties hereby agree as follows:

1. The parties agree to extend the term of the Contractor Agreement for DEBRIS MONITORING services for a period of 1 year, which shall be from the extension effective date to August 19, 2021.
2. This extension agreement shall be binding upon and inure to the benefit of the parties, their successors, and personal representatives. This document, including the original Contractor Agreement, is the entire agreement between the parties.

All other terms and conditions of the original Contractor Agreement remain unchanged.

CITY OF HATTIESBURG, MS

By: _____

Title: _____

Date: _____

DEBRISTECH, LLC.

By: 

Title: **President**

Date: **7/2/2020**



Memorandum

To: Mayor Toby Barker and Members of City Council

From:

cc:

Date: Tuesday, August 4, 2020

Re: Approve renewal of Maintenance Agreement between the City of Hattiesburg and Pitney Bowes, Inc for a mail machine located in City Hall and authorize the Mayor to execute the same.
File Number: 2020-540
Minute Book #

Summary

Authorize Mayor to renew a maintenance agreement between the City of Hattiesburg and Pitney Bowes, Inc for a mail machine located in City Hall.

Recommendation Statement

I recommend the approval of said agreement.

Please place this on the August 4, 2020 City Council meeting for consideration.

1	M9SS	Mailstream Intellilink Services
1	ME1C	Meter Equipment - P Series, LV
1	MSD2	15" Color Touch Display
1	MW90007	SendPro P Series Drop Stacker
1	MW96000	Weighing Platform
1	MW97182	Wireless LAN Adapter
1	SJM5	SoftGuard for Sendpro P2000 Basic/500W
1	STDSLA	Standard SLA-Equipment Service Agreement (for SendPro P Series)
1	T6CS	Receiving - Standard

Your Payment Plan

Initial Term: 60 months	Initial Payment Amount:	
Number of Months	Monthly Amount	Billed Quarterly at*
60	\$ 387.08	\$ 1,161.24

*Does not include any applicable sales, use, or property taxes which will be billed separately.

- ☐ Tax Exempt Certificate Attached
- ☐ Tax Exempt Certificate Not Required
- ☐ Purchase Power® transaction fees included
- ☐ Purchase Power® transaction fees extra

Your Signature Below

By signing below, you agree to be bound by your State's/Entity's/Cooperative's contract, which is available at www.pb.com/states. The terms and conditions of this contract will govern this transaction and be binding on us after we have completed our credit and documentation approval process and have signed below.

8200045149
State/Entity's Contract #

Lessee Signature

Print Name

Title

Date

Pitney Bowes Signature

Print Name

Title

Date

Email Address

Sales Information

Rhonda Beam	rhonda.beam@pb.com
Account Rep Name	Email Address



Memorandum

To: Mayor Toby Barker and Members of City Council

From:

cc:

Date: Tuesday, August 4, 2020

Re: Approve a Service Agreement between the City of Hattiesburg and Harvard Pest Control for pest treatment at the Water Billing Office, in an amount not to exceed \$900.00 and authorize the Mayor to execute the same.
File Number: 2020-527
Minute Book #

Summary

Authorize Mayor to execute a pest control service agreement between the City of Hattiesburg and Harvard Pest Control for pest treatment at the Water Billing Office, in an amount not to exceed \$900.00.

Recommendation Statement

I recommend approval of said item.

Please place this on the August 4, 2020 City Council meeting for consideration.

Account #

145547

HAVARD PEST CONTROL, INC.

No 27214

P.O. Box 15007 • Hattiesburg, MS 39404-5007

CONTRACT FOR TREATMENT OF WOOD DESTROYING INSECTS

This contract made this the 26 day of June, 20 20 at Hattiesburg, Mississippi by and between HAVARD PEST CONTROL, INC. hereunto duly authorized, (hereinafter called the contractor), licensed under the Mississippi laws and regulations governing Pest Control Operators, and City of Hattiesburg (hereinafter called the purchaser) of age and residence of the city of Hattiesburg, state of Mississippi whose address being P.O. Box 1598 39403. In Consideration of the sum of 900.00 dollars, (\$ 900.00) to be paid as follows: When billed

The contractor does hereby agree to treat the building or buildings described herein in accordance with all of the rules and regulations and requirements of Mississippi Department of Agriculture and Commerce, Bureau of Plant Industry.

A. 1. TREATMENT SPECIFICATIONS

This contract provides for the treatment and control of:

- | | | |
|---|--|--|
| 1. Subterranean termites | 3. Wood destroying beetles | Termidor Exterior
Perimeter / Localized
Interior Treatment |
| a. (☒) Reticulitermes spp. | a. () Anobiidae-powder post beetles | |
| b. (☒) Coptotermes-Formosan | b. () Lyctidae-true powder post beetles | |
| 2. () Dry wood termites | c. () Cerambycidae-old house borers | |
| | 4. () Other _____ | |

Work performed under this contract shall comply with the requirements of the Mississippi Department of Agriculture and Commerce, Bureau of Plant Industry for the type of building and construction thereof with the exception of the following:

Bath traps not treated

The property to be treated under this contract is known as:

105 S Park ave Hattiesburg Forrest, and is
Street Town County

the following type construction: mono

The building or buildings to be treated on the above property are more specifically described as follows:

1 building

Diagram showing location of visible damage and outline of work to be carried out is on back of this contract.

The property described above shall be treated with:

Chemical used Termidor TPI II + HG Percent Concentration 12.5 Total Volume 5000/26 gal

B. ☒ 1. RETREAT ONLY GUARANTEEThis is a retreat only warranty due to the following conditions: Existing StructureTechnician's Initial IM☐ 2. REPLACE GUARANTEE WITH THE FOLLOWING LIMITATIONS

In fulfilling the condition of this contract, Havard Pest Control, Inc. Agrees to treat and control the insects indicated above as required under the rules and regulations of the Bureau of Plant Industry for a period of one (1) year from the effective date of this contract and to make an initial inspection within thirty (30) days of the anniversary date of the initial treatment at no additional cost and to perform any additional treatment as may be necessary, also at no additional cost, provided there has been no change to the structure or conditions of the structure as originally treated.

Contractor guarantees to repair damage occurring after initial treatment due to active subterranean termites. However, contractor only agrees to retreat for control of other wood destroying insects listed above.

The purchaser warrants full cooperation with the contractor during the life of this contract, and agrees to maintain the area treated free from any factor contributing to an infestation, such as wood, trash, lumber, direct wood soil contact, or wood shavings around perimeter on the area treated. Purchaser agrees not to make any alterations or additions to the structure without notifying the contractor for proper treatment to be performed and agrees to eliminate faulty plumbing, leaks and dampness from drains, condensation or leaks from the roof or otherwise into, onto or under said area treated. At no time will damage caused to any portion of the structure, even by an active wood destroying insect infestation, be the responsibility of the contractor in areas where any of the conditions described in this paragraph exist.

C. 1. RENEWAL/CANCELLATION

Technician's Initial _____

On the anniversary date of this contract, it may be continued and the price will be 200.00 + tax per year payable a year in advance. At the end of each year, the renewal fee may be renegotiated. Upon renewal of this agreement the contractor agrees to inspect said property not less than once annually and to do any retreatment work required at no further cost to the purchaser provided there has been no change by the purchaser or anyone else to the structure or the conditions of the structure as originally treated.

Either party shall have the right upon the anniversary date of this contract to cancel this agreement in its entirety by written notification thirty (30) days prior to the anniversary date, which notice shall be delivered or mailed to the addresses of each of the parties shown in this contract.

D. 1. LIABILITY

The obligation of the contractor under this contract is conditioned upon payment in full of the contract price as set forth above and failure to pay same in full shall cancel this contract in its entirety and discharge the contractor of any, and all liability and any amount paid shall become the property of the contractor as liquidated damages hereunder. The termite contractor agrees to exercise due care in applying the treatment in order to avoid damage to shrubs, vegetation around the structure but under no circumstances or conditions shall the termite contractor be responsible for damage involved in this job or stains or discolorations to any part of the structure except those resulting from negligence on the part of the termite contractor.

ACCEPTED BY: PURCHASER

DATE

CONTRACTOR

DATE 6-26-20

Hattiesburg
601/583-4451
Oak Grove
601/284-2847

Columbia
601/738-8018
McComb
601/250-0100

Jackson
601/838-0309
Vicksburg
601/618-8888

Ridgeland
601/898-0903
Richland
601/853-0390

Gulfport
228/868-2520
Biloxi
228/388-7808

Bay St. Louis
228/468-2848
Piquette
601/749-8888

Slidell
985/849-2542
Wiggins
601/628-8343



Memorandum

To: Mayor Toby Barker and Members of City Council

From: Sherrocko Stewart, Fire Chief, Danny Wade, Assistant Fire Chief

cc:

Date: Tuesday, August 4, 2020

Re: Approve Agreement between Mississippi State Fire Academy (MSFA) and the Hattiesburg Fire Department to provide the course for the NFPA 1001-I-II F and authorize the Mayor to execute the same.
File Number: 2020-542
Minute Book #

Summary

Memorandum of Understanding with the State Fire Academy to provide the course NFPA 1001-I-II-F.

Recommendation Statement

I recommend approval of the Memorandum of Understanding.

Please place this on the August 4, 2020 City Council meeting for consideration.



Mississippi State Fire Academy
#1 Fire Academy USA
Jackson, MS 39208-9600
Telephone: 601-932-2444
Fax Apparatus Building: 601-939-5846
Main Fax Administration Building: 601-932-2819



CONFIDENTIAL COVER SHEET

To:	Name: Chris Carr Title: Battalion Chief	From:	MSFA
Location:	Hattiesburg Fire Department 662 Corinne Street Hattiesburg, MS 39401		Number of Pages Including Cover:
Email Address or Fax #:	ccarr@hattiesburgms.com	Date:	July 9, 2020
Re:	Contract for: NFPA 1001 –I-II F		

Message:

Please review the contract. Fill in the following information:

Page One: Federal Identification Number
Email address

Page Two: Sign and date
Include purchase order number or copy of purchase order if applicable
List billing/invoicing address and phone number

Email or fax document(s) to Lynn Tyler: lytler@msfa.ms.gov or 601-932-2819.

Or, mail original signature document to:

Lynn Tyler
Mississippi State Fire Academy
#1 Fire Academy USA
Jackson MS 39208-9600



STATE FIRE ACADEMY



Terry Wages
Executive Director

Division of Mississippi Department of Insurance
1 Fire Academy U.S.A.
Jackson, Mississippi 39208-9600
Phone: (601) 932-2444

Mike Chaney
Insurance Commissioner

Memorandum of Understanding (Rev. 9/2019)

This Memorandum of Understanding is entered into between the Mississippi State Fire Academy (MSFA), #1 Fire Academy USA, Jackson, MS 39208 (Rankin County Mississippi) and the following Customer:

Customer Name: Hattiesburg Fire Department
Address: 622 Corinne Street
City, State Zip: Hattiesburg, MS 39401
Phone: 601-582-3311
Fax: 601-545-4652
Federal ID Number: _____
Contact Person/Title: Chris Carr / Battalion Chief
Email Address: ccarr@hattiesburgms.com

1. DATE(S) OF SERVICE:

2. LOCATION FOR SERVICE TO BE PERFORMED:

3. DESCRIPTION OF SERVICE TO BE PROVIDED TO CUSTOMER Mississippi State Fire Academy (MSFA) shall provide the course **NFPA 1001-I-II E**. Academy Staff will provide the local course coordinator a complete package to manage the delivery of the course. **No books are included.** MSFA will administer all written and skill examinations.

Examination dates must be approved by MSFA personnel. All communications concerning test scores, student activities, etc. shall be between the MSFA coordinator and the local course manager. Certificate will be issued upon successful completion of course.

All documents and curriculum provided to you from the MSFA is the property of MSFA and cannot be duplicated for use outside of this delivery. **No books are included, and customer is wholly responsible for purchasing any required books through the textbook publisher.**

4: NUMBER OF STUDENTS THIS MEMORANDUM OF UNDERSTANDING APPLIES TO:

Minimum Number: 10

Maximum Number: 15

5. SERVICE FEE: Total Cost: **14 X 500.00 = \$7000.00** And/or Cost Per Student: **\$500.00 per student**

Customer agrees to pay the service fee for the minimum number of seats being reserved herein, regardless of whether the minimum number of students actually attends the training.

If a Purchase Order is required for this service, indicate so and provide a purchase order number and/or copy of the purchase order:

Please note : If there is more than one department/organization entering this agreement for this course and the fee is split between the departments/organizations, the cost per student is based on the provided number of students. If the number of students from participating departments/organizations changes, the cost per student will change. However, the total of the fees will equal the total cost above and will be split between the participating departments/organizations.

If on Academy campus Monday through Thursday, are meals to be provided: ☐ Yes ☐ No If Yes, indicate which meals are provided:
____ Breakfast served 6:30 a.m. to 7:15 a.m. ____ Lunch served 11:30 a.m. to 12:45 p.m.

If on Academy campus Monday through Thursday, are dorm beds requested: ☐ Yes ____ # of Beds ☐ No

Note: An invoice will be submitted to the customer upon completion of the service. If a purchase order number is required from your company, please fill in the appropriate blocks on this form. Payment for services is due within thirty (30) days of completion of services and receipt of invoice.

6. MODIFICATION, AMENDMENT, OR TERMINATION OF AGREEMENT:

Modifications, amendments, or termination of the Memorandum of Understanding may be made upon mutual agreement of both parties but must be in writing and signed by both parties. This Agreement may be terminated by the Academy upon written notice to the Customer should the Academy be subject to governmental budgetary cuts or if personnel cuts limit the amount of available manpower necessary to execute the professional service.

7. INSURANCE:

Customer represents that it will maintain workers' compensation insurance as prescribed by law that will insure to the benefit of the customer's personnel, as well as comprehensive general liability insurance. The Academy represents that it maintains workers compensation insurance for Academy personnel during the course of their official duties. Further, the Academy represents that as a state agency, the Mississippi Tort Claims Board views the organization as a sub-agency of the Mississippi Insurance Department. The Mississippi Insurance Department is certified by the Mississippi Tort Claims Board by participating in the Mississippi Tort Claims Fund as set forth in Chapter 46, Title 11, Mississippi Code 1972, as amended. This fund provides protection for tort claims against state employees and agencies subject to terms and limitations established by law while in the scope of their duties.

8. GOVERNING LAW:

This Agreement will be construed and governed in accordance with the laws of the State of Mississippi excluding its conflicts of laws provisions, and any litigation with respect thereto shall be brought in the courts of the State.

9. ACADEMY COURSE MATERIAL IS PROTECTED PROPERTY:

Academy course instructional material (lesson plans, power point presentations, handouts, skills check offs, etc.) shall be considered Protected Property belonging to the Academy. If part of this agreement is to provide the Customer this information for performance of this agreement, the Customer shall not copy, duplicate, transcribe, or any other form of duplication, in whole or in part, any course material submitted to them for use in fulfilling this Memorandum of Understanding, either directly or indirectly, for personal benefit, the benefit of another, or for future use. This statement of policy shall continue to be in effect whether or not the Agreement is terminated or has expired. Additionally, if any state property is utilized as part of this agreement, the Customer assures proper custody and care of the property (withstanding normal use and wear and tear).

10. ACKNOWLEDGEMENT OF MEMORANDUM OF UNDERSTANDING:

This constitutes the entire agreement of both parties with respect to the subject matter contained herein and supersedes and replaces any and all prior negotiations, understandings and agreements, written or oral, between the parties relating thereto. For the faithful performance of the terms of this agreement, the parties hereto have caused this Agreement to be executed by their undersigned authorized representatives.

PARTIES IN AGREEMENT:

Mississippi State Fire Academy
Authorized Personnel: Terry Wages, Executive Director
Authorized Personnel: Paul Ammerman, Office Director
Authorized Personnel: Daniel Cross, Deputy Chief
Instructor

Customer: Hattiesburg Fire Department
Authorized Personnel: Sherrocko Stewart
Title: Fire Chief

Authorized Personnel: Chris Carr, Battalion Chief

Signature/Date

Signature/Date

Signature/Date

Academy Contact Regarding this Agreement:

Telephone:

Email:

Signature/Date

Optional Signature/Date:

If a Purchase Order is required for this service, indicate so and provide a purchase order number and/or copy of the purchase order:

Customer Invoicing/Billing Address:

Contact Name:

Contact Phone Number:



Memorandum

To: Mayor Toby Barker and Members of City Council
From: Ann Jones
cc:
Date: Tuesday, August 4, 2020
Re: Approve revised City of Hattiesburg Employee Handbook.
File Number: 2020-530
Minute Book #

Summary

Enclosed revisions of the employee handbook.

Recommendation Statement

I recommend adoption of the revised employee handbook.

Please place this on the August 4, 2020 City Council meeting for consideration.



EMPLOYEE HANDBOOK

August 2020

INTRODUCTION

This Handbook has been adopted by the City Council of Hattiesburg, Mississippi (hereinafter “the City”), to inform you about the City’s employment policies and procedures, and to summarize the employee obligations owed by you to the City, as your employer, as well as the employee benefits available to you as a City employee. It is your responsibility to read your Handbook and familiarize yourself with the information it contains, and thereafter to refer to it whenever you have a question. If you have a question that is not answered by the Handbook, ask your department head, the Human Resources Department or the City Clerk.

As a City employee, the taxpayers and citizens of Hattiesburg, Mississippi, collectively are your ultimate “boss”. You are an integral part of a diversified work force which has the single purpose of serving the taxpayers and citizens of our city. The skills and experience you bring to your job are an important aspect of providing this service. Your day to day and occasional contacts with individual citizens will often be the only basis by which they are able to determine the efficiency, professionalism and responsiveness of the whole of City government. Therefore, it is of the utmost importance you always make the best possible impression when you are interacting with members of the general public. Your job, as is each job with the City, is an essential part of the overall operation of our City. As an employee, we all are counting on you to always provide honest, efficient, reliable and courteous service.

The City administration, acting by and through the elected City Council, reserves the right to amend, modify, supplement or cancel this Handbook at any time whatsoever, including, without limitation, any or all of the various policies, rules, procedures, and programs outlined within this Handbook. Whenever the masculine gender (he, him, his) is used, it also refers to the feminine gender (she, her, hers).

This handbook is not to be construed in any manner as a contract of employment. It does not create a contractual relationship between the City and any employee, nor shall anything in this Handbook be deemed to imply a guarantee of continued employment or benefits for any length of time whatsoever. This Handbook fully preserves the EMPLOYMENT AT WILL doctrine. Although it is hoped your employment relationship with us will be for an extended duration, you or the City of Hattiesburg may terminate this employment relationship at any time, with or without cause or notice. No director, chief, supervisor, manager, or representative of the City of Hattiesburg has the authority to enter into any agreement with you for employment for any specified period of time or to make any promises or commitments contrary to the at-will relationship between you and the City of Hattiesburg.

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CHAPTER ONE

EMPLOYMENT INFORMATION

1-1. At-Will Employment

Employment with the City of Hattiesburg is on an at-will basis. At-will means employment with the City may be ended at any time, for any reason, with or without cause by either you or the City of Hattiesburg. You should not rely upon any written or verbal statement to the contrary, no matter who provides it, as it is invalid. This handbook does not alter the at-will relationship, and nothing in this handbook should be interpreted as a guarantee of continued employment.

1-2. Equal Employment Opportunity

The City of Hattiesburg is committed to providing employment opportunities for all qualified employees and applicants. The City of Hattiesburg also seeks to employ the most competent, qualified, and motivated individuals into available positions, while remaining in compliance with federal and state requirements against discrimination. The City of Hattiesburg does not and shall not discriminate on the basis of race, gender, gender identity, sexual orientation, personal or family genetic predisposition, age, religious beliefs, national origin, veteran, and/or disability status. The City provides reasonable accommodation to individuals with a disability during the application process and as an employee. The obligation applies to all terms, condition and privileges of employment including, but not limited to: hiring, placement, upgrading, transfer and demotion, termination, and/or suspension, recruitment, advertising or compensation, treatment during employment, selection of training, and social and recreational programs.

1-3. Commitment to Diversity

The City of Hattiesburg is committed to being a diverse organization and actively seeks to recognize, value, and incorporate diversity in its services, policies and operations, vendors and workforce. In the event you have a work-related dispute or complaint, please raise your concern in accordance with the City of Hattiesburg's Grievance policy found in this handbook.

1-4. Immigration Employment Law Compliance

The City of Hattiesburg only employs citizens of the United States and alien persons who are authorized to work in the United States. Newly hired employees must complete the federal government I-9 eligibility verification form and present documentation to the Human Resources Department establishing employment eligibility and identity. The City of Hattiesburg uses the E-Verify government system to help establish eligibility.

If you do not present the required verification information that establishes your right to work

in the United States, you will not be permitted to work.

1-5. Infectious Diseases

The City of Hattiesburg does not discriminate against individuals with infectious diseases, including those who are infected with the Acquired Immune Deficiency Syndrome (AIDS) virus. The City will make reasonable accommodations for such individuals who are otherwise qualified to perform their assigned job duties. While privacy of the individual will be protected, the City reserves the right to inform any employee who might have been exposed to infectious diseases in a medically recognized situation.

1-6. Employment of Relatives

Your relatives who apply for employment with the City of Hattiesburg are eligible to be employed unless specifically prohibited by the state nepotism law or unless there is the possibility that public safety will be compromised. These individuals will be evaluated on their qualifications for the position and their relationship to you will be neither an advantage nor disadvantage. However, relatives employed with the City are not to be placed in close working proximity to each other and are not to supervise each other, directly or indirectly.

If you apply for an internal transfer to an available position, your relationship to the supervisor/manager, etc. of the position will be taken into consideration before a transfer is approved.

For the purposes of this policy, a relative is defined as:

Relative by Blood

Parent
Child
Grandparent
Grandchild
Sibling

Relative by Marriage

Spouse
Stepchild
Stepparent
Parent In-Law
Sibling In-Law

AND any other relative who lives in your household.

It is your responsibility to inform management when a relationship (as defined above) exists. Failure to do so could result in disciplinary action.

1-7. Employment Process

A. Position Announcement

In general, positions which have been approved to be filled and open to all candidates will be posted in Human Resources, on the City's website, the Job Line, and at various departmental locations. In addition, notice of position openings will be sent to the MS Employment Security office and sent out using the City's social media process. The City does, however, retain the discretion to allow department heads to verbally announce an opening and hire from within the department. Interested, qualified individuals may apply on-line by going to the City's website or by coming to the HR Department.

To ensure the City reviews applications that are from candidates currently interested in a position, only applications for posted positions are accepted and applicants must submit a new application to be considered for additional positions that become open.

Employees are encouraged to apply for a transfer should a position come open they are qualified for and interested in and the employee is out of their probationary period. When applying for an internal transfer which requires testing for skills such as Typing, Word and/or Excel, you will be required to submit to these skills tests.

To allow ample opportunity for internal transfer requests, vacant positions are posted a minimum of five (5) days before a selection is made and a job offer extended. The interview process will not begin until the minimum 5 day posting requirement is met.

You may apply for the next available Police or Fire Academy only when such applications are being actively recruited, in accordance with Civil Service guidelines. You must meet the minimum requirements for the position(s).

B. Probation Period

You are considered to be on probationary status for a period of six (6) months (12 months for sworn police and fire personnel). This probationary period gives you the opportunity to become familiar with the job and your supervisor an opportunity to evaluate your performance. As a standard practice, you will be evaluated at 2 months, 4 months and 5 months of employment. Should you not be performing at an acceptable level, your supervisor may establish a performance improvement plan.

During this period of employment, you may be reassigned or terminated without grievance or appeal rights.

If you are a temporary employee and are subsequently hired into a full-time position, you will serve a full six months (one year if sworn personnel) probation period; this period begins with the first workday in the permanent position.

C. Duty Assignment

Your supervisor is responsible for assigning duties, and you are expected to carry out these assignments to the best of your ability with a cooperative and helpful attitude. You may not change assignments without the knowledge and permission of your supervisor.

1-8. Classification of Employees

Fair Labor Standards Act Classifications

All paid positions with the City of Hattiesburg are classified as either exempt or nonexempt from the minimum wage and overtime provisions of the Fair Labor Standards Act (FLSA). For purposes of salary administration and eligibility for overtime payments, employees are classified as follows:

Non-exempt employees

Employees who are required to be paid the minimum wage and overtime or compensatory time at the rate of one and one-half times the employee's regular rate of pay for all hours worked in excess of forty hours in a workweek, in accordance with applicable federal wage and hour laws, or more frequently in accordance with certain state or local wage and hour laws.

Exempt employees

Employees who are not required to be paid the minimum wage and overtime or compensatory time in accordance with applicable federal wage and hour laws for work performed in excess of forty (40) hours in a workweek. Executives, professional employees, certain administrative and computer employees are typically exempt.

The City of Hattiesburg (COH) intends to comply with all federal regulations with respect to the Fair Labor Standards (FLSA). In this regard, the FLSA provides an exemption from both minimum wage and overtime payment for employees employed in a bona fide executive, administrative, professional and computer positions. To qualify for an overtime exemption, an employee generally must be paid no less than \$35,368 a year or \$684 per week on a salary basis (certain exempt computer employees may be paid at least \$684 on a salary basis or on an hourly basis at a rate not less than \$27.63 per hour.)

Being paid on a "salary basis" refers to an employee who regularly receives a predetermined amount of compensation each pay period on a weekly or less frequent basis which cannot be reduced

because of variations in the quality or quantity of work. Subject to the exceptions listed below, an exempt employee must receive his or her full salary for any workweek in which the employee performs any work, regardless of the number of days or hours worked. Exempt employees do not need to be paid for any work week in which they perform no work and will not be paid, unless appropriate accrued leave is utilized. If deductions are made from an employee's predetermined salary because of the employer's operating requirements, that employee is not paid on a "salary basis." If the employee is ready, willing, and able to work, deductions may not be made for time when work is not available.

Deductions from pay are permissible when an exempt employee is:

- absent from work for personal reasons, other than sickness or disability;
- absent from work due to sickness and disability, if the deduction is made in accordance with a bona fide plan, policy or practice of providing compensation for salary lost due to illness;
- in receipt of amounts such as jury or witness fees; or
- on an unpaid disciplinary suspension for one or more full days, imposed in good faith for workplace conduct rule infractions.

Also, the COH is not required to pay an employee's full salary in the initial or final week of employment, for penalties imposed in good faith for infractions of safety rules of major significance, or for weeks in which an exempt employee takes unpaid leave under the Family and Medical Leave Act. In these circumstances, either a partial-day or full-day deduction may be made. Finally, as a public sector employer, the COH operates under principles of public accountability, which permit deductions from the pay of an exempt employee for partial-day or full-day absences due to illness, injury, or personal reasons when accrued paid leave is not used by an employee because:

- permission for its use has not been sought or has been sought and denied;
- accrued leave has been exhausted; or
- the employee chooses to use leave without pay, if such leave is available.

The COH has classified those positions which are considered to be "exempt." It is the policy of the COH to comply with the "salary basis" requirements of the FLSA with regard to exempt employees.

If you believe that an improper deduction has been made to your salary, you should immediately report this information to the Human Resources Department. Reports of an improper deduction from wages will be promptly investigated. If it is determined that an improper deduction has occurred, you will be promptly reimbursed for improper deduction.

Job titles do not determine exempt status. In order for an exemption to apply, an employee's specific job duties and salary must meet all the requirements of the Department of Labor's regulations and must be approved by your Director and by Administration. The City of Hattiesburg may compensate certain exempt executive, administrative, professional, and computer employees on a guaranteed salary basis. Deductions from these salaries may only be made when the employee absents himself/herself for personal reasons, for sickness when his/her bona-fide sick leave plan has been exhausted, for disciplinary reasons for infractions of major safety or conduct rules, or in initial or terminal weeks. It is the policy of the City of Hattiesburg to not make any improper salary deductions based on variations in quantity or quality of work

done. Any salaried exempt employee who believes that an improper deduction was made from his/her salary may file a written complaint with the Human Resources Department over such deduction. The Human Resources Department will conduct an investigation into the deduction to determine if it was improper. If it is found that the deduction was improper, the amount of the deduction will be reimbursed to the employee by no later than the next pay day, and the City of Hattiesburg will ensure that such deduction is not made in the future from any exempt employee's salary. There will be no retaliation against the employee for filing a complaint under this section.

All salaried employees of the City of Hattiesburg are paid salaries that are intended to cover all hours that are worked.

Types of Employees

1. Elected and Appointed Officials - Mayor, Council Member, Director/Chief, City Attorney, Municipal City Clerk, Deputy Municipal Clerk, Deputy Municipal Court Clerk, Clerk of Council, Deputy Clerk of Council, Municipal Court Clerk, Municipal Judge, Municipal Prosecutor, and Municipal Public Defender.
2. Permanent Full Time – Employees, who are hired to work longer than six months, and who are regularly scheduled to work forty hours in a work week; or, if a sworn police or fire employee hired to work their scheduled FSLA cycle.
3. Permanent Part Time – employees who are hired to work longer than six months, and who are regularly scheduled to work less than forty hours in a work week. These employees are not entitled to full time benefits. They may, however, be required to participate in the Public Employees Retirement System. Human Resources will make that determination. These employees may work more than part-time hours on a temporary basis only, but will remain classified as part-time.
4. Temporary – employees hired to work less than 4 1/2 months because of seasonal needs or emergency situations. Such employees may work full time hours or part time hours. These employees are not entitled to employee benefits including participation in the Public Employees Retirement System.
5. Inactive – employees who, for whatever reason, are unable to work, have no available leave time, and are not eligible or no longer eligible for Family Medical Leave. Employees on inactive status will no longer continue to accrue benefits and are responsible for paying their single health and life insurance premium and any other voluntary deductions. Employees can only

remain on inactive status for 6 months. At 6 months of inactive status if the employee is unable to return to work, the employee's employment will automatically be terminated. Nothing in the previous statement shall prohibit from reapplying for employment.

1-9. Retirement

To be classified as a retiree with the City of Hattiesburg, you as an employee must meet the established criteria for eligibility for service retirement benefits under the Public Employees Retirement System (PERS) or the Municipal System. You also must be employed with the City when you become eligible and at the time you apply for retirement benefits.

To be eligible for service retirement benefits under PERS, you must have four (4) years of contributing membership service if you began paying into the retirement system before 07/01/07. If you began paying into the retirement system 07/01/07 or later, you must have eight (8) years of contributing membership AND be age 60 or older. You may begin drawing retirement benefits at any age if you have 30 years of creditable service in the retirement system (25 years of creditable service if hired 6/30/11 or before) or you are approved for disability retirement benefits by the retirement system. Benefits are based on the number of years of creditable service you have accrued and on the average of the greatest four years of compensation you earned.

For details, please see the Public Employee's Retirement System website at www.pers.ms.gov.

1.10. Compensation

The City of Hattiesburg has established by Ordinance a classification/compensation plan known as the Hattiesburg Variable Plan (HAV PAY). All employee salary ranges fall under this plan. The City encourages all pay be direct deposited into a checking or savings account and have established relationships with financial institutions to help employees meet this standard if needed.

A. Pay Period

The City's workweek begins on Saturday and ends on the following Friday. There are two workweeks in a pay period. Therefore, each paycheck you receive will be payment for hours worked or accrued leave time taken for the previous two workweeks.

You are responsible for clocking in when you begin work and out when you leave work into the City's time keeping system by entering your Employee ID Number and your biometric fingerprint. Employees may also be required to clock in/out for their meal period. Your biometric fingerprint clocking your work time is the official record of the time you have worked and is used to determine your pay. No one shall clock in or out for another unless fulfilling a supervisory responsibility.

Information on your pay will be given only to you, unless you have submitted signed authorization to your supervisor or to Human Resources identifying someone else who is allowed to obtain your pay information. The person you give permission to obtain this information for you must present picture identification for verification.

B. Rate of Pay

The City of Hattiesburg has established wage guidelines and ranges for all positions, including sworn police and fire personnel. Compensation paid is within this established range. There are exceptions, but they occur rarely and only with prior approval of the Mayor. The City will attempt, for the benefit of employees, to maintain wages that are competitive with those paid for similar work by other cities and local industry.

1-11. Work Hours

Workdays for City employees are based on the type of work done and are set by individual departments. A “normal” workweek is 40 hours for non-sworn employees. Sworn employees are paid every two weeks, but their assigned work hours will be different. However, in certain instances work schedules may vary and various employees may work different schedules because of our responsibility to the citizens of the City of Hattiesburg. Your supervisor determines scheduling of your work hours and any unpaid meal period. Your work schedule may need to be changed temporarily to meet the needs of the City. If you refuse to meet needed changes, disciplinary action, up to and including termination, may be taken.

Due to the nature of certain jobs in the City of Hattiesburg, some hourly (non-exempt) employees are subject to being on-call, ready to return to work after their normal work shift is finished.

For the inconvenience of being in such on-call status, employees will be paid \$2.00 per hour for any time spent in such waiting to be called back to work. For any time that such employee is working when called-in back to work, he/she will be paid their normal hourly rate of pay (time and a half such regular rate of pay for hours worked over 40 in a week). Overtime will be calculated on the on-call pay by use of the Wage and Hour Coefficient Table, an acceptable method of overtime pay computation per the Wage and Hour Division.

In order for such employee to be able to return to work in a safe and healthy condition, such employee must refrain from taking any substances, such as alcohol or drugs, including prescription drugs, that may hinder or impede him/her from performing their work. Also, they must be able to report back to work within 30 minutes.

Failure of any employee to accept on-call status and/or work may result in disciplinary action against the employee, up to and including termination of employment. Failure of an on-call

employee to remain sober and able to return to work while in on-call status may result in disciplinary action, up to and including termination of employment. Failure of the on-call employee to remain in close proximity to their job location that would permit them to report back to work within 30 minutes of being notified of the requirement that they return to work may result in disciplinary action against the employee, up to and including termination of employment.

1-12. Meal Period

You are normally given a meal period break during the workday. Meal periods are typically 30 minutes to one hour and you generally are not compensated. Meal periods are scheduled in advance at the discretion of your supervisor. You are required to take your meal period away from your work station area. The City provides a break area for employees who wish to remain at their job location during their meal period.

In rare circumstances, and only with your supervisor's prior approval and there is productive work available, you will be allowed to skip or shorten the meal period to shorten your workday or to make up worktime missed.

1-13. Work Breaks

Breaks may be provided, but not required, and must be approved by the supervisor and scheduled for the convenience of the department. In no case shall there be more than two breaks per eight (8) hour shift, and each break should be no more than fifteen (15) minutes long.

1-14. Overtime

If you are required to work beyond the normal work week or work cycle, you should be granted equal time off during that same work week so the total actual hours worked is the normal total hours in a workweek.

When this is impossible or impractical, if you are a nonexempt employee, you will be paid at one and one-half times your normal hourly rate of pay or accrue compensatory time at the rate of one and one-half hours for all hours worked beyond the normal work week (must work a minimum of 40 hours) in accordance with the Fair Labor Standards Act – FLSA. You may work overtime ONLY with prior authorization of your supervisor and are required to work additional hours as instructed. Refusal to work additional or other than normal scheduled hours may result in disciplinary action up to, and including termination of employment. You will need to provide an explanation of overtime worked to your supervisor so it can be entered into the timekeeping system as an explanation of duties performed to warrant additional work time. If you fail to clock in/out when working or do not report additional time worked to your supervisor during the pay period it is earned, it can be reported and calculated for inclusion on the next paycheck. A manual check will not be

issued to pay over-time hours not included when you fail to use the timekeeping system or report your work hours within the required timeframe. You may have to wait until the next regularly scheduled pay date.

When calculating overtime, do not count holidays or accrued leave time (personal, sick or compensatory hours) as hours worked.

1-15. Compensatory Time

You may, at times, receive credit for compensatory leave. This generally happens when your manager considers it essential you work after normal hours and you are unable to take the time off during the same workweek.

If you are a non-exempt, non-sworn employee, you may earn compensatory time -- instead of cash overtime pay - at a rate of an hour and half for each hour worked over forty (40) hours in a workweek (as defined in Department of Labor regulations). You are limited to 240 hours of earned compensatory time. Sworn Police and Fire have different limits.

Any compensatory hours you earn above the maximum will not be accrued but will be paid out to you. You must first exhaust all accrued compensatory hours when requesting personal leave. Your accrued unused compensatory time will be paid to you when you attain exempt status or leave City employment.

1-16. Promotions

A promotion is the movement of an employee from one position to another position that requires a higher level of skill and/or responsibility. It is also usually assigned to a higher pay range.

After you have served six (6) months in a position or meet the established standards for sworn personnel, you may apply for promotional opportunities through the internal transfer process.

1-17. Internal Transfer

Whenever possible, the City of Hattiesburg promotes and encourages personal and/or professional growth and development for its employees through internal transfers, promotions, and training and educational opportunities. Occasionally, the City will opt to change an employee's duties or position, not at the individual's request, but as a result of some other need, for instance job performance or elimination of the position.

There are two types of transfer requests for non-sworn employees:

A. Employee Request

You may request a transfer to an approved and posted position by submitting a completed Application for Transfer Form and a resume. Applicants must also meet the minimum criteria as listed below:

- You have held your current position for at least six (6) months.
- You have met or exceed the minimum requirements for the position.
- You have a satisfactory job performance and attendance record.
- The position has been approved to be filled and is posted.
- If the position requires candidates to successfully pass a typing test and/or other Clerical Skills test, internal transfer applicants who meet all other minimum requirements will be scheduled for testing.
- An approval for a transfer is at the discretion of the manager with the position open, it is not a guarantee.

The section on the form that you complete must be submitted to your manager. To give you ample time to apply for a transfer and perform any required tests, available positions are posted for a minimum of 5 working days before a hiring decision is made.

Internal transfer requests are only given more consideration than an outside applicant when all other qualifications are equal. Management will consider your ability, employment record and other qualifications in deciding whether to select you for a transfer. (In the event that two or more employees apply for a transfer to the same position and ALL qualifications - including education, initiative, attitude and other factors - are essentially the same among all applicants, the job will be awarded to the employee with seniority.)

If you request and receive a transfer, you will be placed on a six (6) month probationary period to determine job suitability. If your performance in the new position is unsatisfactory, your employment may be terminated if an alternative solution is not determined.

Your pay may be adjusted (either increased or decreased) to accommodate new job duties.

B. Management Transfer

Occasionally, the organizational needs of the City warrant movement of an employee to a different position. Because this movement is at the discretion of management, the previous criteria established for an employee internal transfer does not apply.

If you are a management-transferred employee, you will also be placed on a six (6) month probationary period to determine job suitability. If your performance in the new position is unsatisfactory, your employment may be terminated if an alternative solution is not determined.

If you receive a management transfer, you may receive an adjustment in your pay (either increase or decrease) to fit the responsibilities and the budget of the new position.

1-18. Personnel Records, References and Privacy

Personnel records shall be maintained for each employee in Human Resources. These records are the property of the City and are confidential. Departments are permitted to maintain additional files of employee information, but the official employment record is the one in Human Resources. All appropriate documentation must be forwarded to Human Resources to be included in this file. As an employee of the City, you are required to notify Human Resources of any changes in personal status (i.e.; marital status, number of dependents, beneficiaries, home address, telephone number, etc.) and of any additional educational and skill training you acquire after you are hired.

You may view your personnel records by notifying Human Resources and scheduling a time for inspection that is mutually convenient. If you are a current employee, you may request a copy of your file. Former employees are only allowed access to their employment files by court order.

All inquiries concerning current and former employees shall be referred to the Human Resources Department.

1-19. Performance Evaluations

As a City of Hattiesburg employee, your job performance will be evaluated to help identify your successes as well as areas that need improvement. Newly hired employees and employees who transfer to a new position, will be evaluated several times over the 6 month probationary period (note: Fire and Police Sworn Personnel are under a 1 year probationary period). Evaluations allow your supervisor to measure your work against the requirements of the position and to assess specific behaviors related to your job performance. As part of the process, you will be given the opportunity to review the evaluation and to set goals. If improvement is needed, your supervisor will work with you to develop an action plan that notes any required improvements and provides a time frame for achieving them.

You will be re-evaluated at the appropriate time to determine if improvement has been made; if you are unwilling or unable to make necessary adjustments, termination may be considered.

Performance evaluations will become a permanent part of your personnel file.

1-20. Travel and Expenses

If you are required to travel in the performance of an official duty, City policy allows you to be reimbursed for reasonable expenses incurred as allowed by policy. You are required to use city-owned vehicles when traveling unless circumstances prohibit and you have obtained prior written approval for use of a personal vehicle from your Director or Manager. You can be reimbursed for overnight lodging if you have proper authorization and receipts, and if travel circumstances prevent departure and return on the same day. You are expected to exercise the same care incurring expenses as a prudent person traveling for personal reasons.

It is your responsibility to obtain information regarding the City's travel reimbursement procedure from your department's purchasing and travel manual before you travel. To be reimbursed for any travel expenses, you must follow pre-established rules and regulations. The Purchasing Division is available to answer any additional questions you may have.

1-21. Polygraph Examination

As a condition of employment with the City, applicants for certain positions may be required to take a post-offer of employment polygraph examination. These are positions of trust that involve the handling of cash, property, evidence, equipment, confidential information, civilian law enforcement position, and/or those occupations designated as Deputy Municipal Clerk or Deputy Court Clerk. Results will not be used as the only factor in the hiring decision.

Employees may also be required to participate in specific-issue polygraph examinations during an investigation. It is a condition of employment with the City that you fully cooperate with any law enforcement agency's criminal investigation. Refusing or failing a polygraph with supporting evidence may result in disciplinary action, up to and including termination of employment. Results of a polygraph will be confidential and will be shared only with those who are in a "need-to-know" position.

1-22. Information Technology

The use of computer, electronic mail and Internet systems is reserved for the conduct of business within the City of Hattiesburg. Any unauthorized access or use of the City of Hattiesburg's computer systems is strictly prohibited. The City has established a computing policy. Upon employment, you are given a copy and are responsible for compliance. The City of Hattiesburg's computing Policy is incorporated by reference herein. A violation of this policy may result in disciplinary action ranging from a verbal warning up to discharge from employment.

1-23. Position which requires Bonding

If you were hired into a position which requires you to be bonded or should you transfer to a position which requires you to be bonded, you will **not be allowed to work** in that position until you successfully complete the bonding process and have been bonded. The bond will be paid for by the City. You are also responsible to remain in compliance with all bonding requirements to ensure your bond does not lapse. Failure to obtain bonding will mean termination of your employment should alternative arrangements not be feasible.

CHAPTER TWO

STANDARDS OF EMPLOYEE CONDUCT

2.1. Attendance

Regardless of your position or the duties you perform, you are a valuable employee and your presence is needed if the City is to function properly and efficiently. It is your responsibility to be ready and able to work at the start of your shift.

If for any reason you cannot report to duty or are unable to report to work on time, you must follow pre-established guidelines and notify your supervisor prior to the start of your scheduled work time. Your manager will provide you instructions on how you are to contact your department should an unforeseen circumstance occur.

If you report to work after the scheduled start time, even if it is due to circumstances beyond your control, you will be considered tardy and may be subject to disciplinary action.

If you are absent three or more consecutive days without proper notice or explanation to your supervisor, you may be considered to have abandoned your position and your employment may be terminated.

2.2. Commitment During Work Hours

While at work, you should apply yourself to your assigned duties during the entire work period for which you are being compensated, except for reasonable time needed to take care of personal needs, as approved by your supervisor.

2.3. Resignation

You are required to submit a written resignation to your supervisor if you want to terminate your employment. You should provide a minimum resignation period (“notice”) of ten (10) working days. You may not use compensatory time, personal time, or sick leave during your resignation period. If you happen to fall ill during your resignation period, you must submit a doctor’s excuse to be allowed to use accrued sick time. The resignation period may be extended for the number of days missed due to illness.

If your resignation period ends on a scheduled holiday, you must work the day after the holiday to be eligible to receive holiday pay.

2.4. Conflict of Interest

You should be very careful to avoid using, or appearing to use, your position with the City of Hattiesburg for personal gain. As an employee, you are not to engage in any activity,

whether in private or on official City business, which may pose or appear to pose a conflict of interest.

2.5. Political Activity

You shall not be compelled to participate in any political campaign, nor may you do so voluntarily while on paid duty time. You are encouraged to register to vote and to exercise that right in local, state, and federal elections. You are allowed to voice your opinion on issues and candidates on your own time and as a private citizen, but may not wear buttons, T-shirts, caps, stickers, etc., endorsing a particular candidate or party as part of your work attire or uniform.

2.6. Outside Employment

You are not prohibited from holding outside employment as long as it does not interfere with the performance of your duties, does not create a conflict of interest, and as long as you have informed your supervisor of your outside employment. However, you may not work for another employer while being paid accrued sick leave hours.

2.7. Workplace Violence

Safety of employees is our highest concern. We encourage you always to be alert to the possibility of workplace violence and require that you immediately report all acts of violence or threats of violence to your supervisor. All reports of violence will be handled in a confidential manner, with information released only to those who have a need to know. Every effort will be made to protect the safety and anonymity of anyone who comes forward with concerns about a threat or act of violence. You are given a copy of the City's Work Place Violence Policy upon employment. This policy is incorporated by reference herein. A violation of this policy may result in disciplinary action ranging from a verbal warning up to discharge from employment.

2-8. Harassment – including Harassment of a Sexual Nature

The City is committed in providing a work environment that is free from the hostile atmosphere created by harassment or intimidation. Unlawful harassment of any kind will not be tolerated. Harassment based upon an individual's sex, race, ethnicity, national origin, age, religion, or any other characteristics protected by law will not be tolerated. All employees, including management personnel, both elected and unelected, are expected and required to abide by this policy.

Use of racial or ethnic derogatory remarks, jokes, or gestures will not be allowed, the same shall be investigated, and disciplinary action may be taken, whenever found warranted.

Harassment of a sexual nature is also prohibited. Sexual harassment does not refer to

occasional compliments of a socially acceptable nature. It refers to behavior that is not welcome, that is personally offensive, that lowers morale and that, therefore, interferes with work effectiveness. Specifically, unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature constitutes sexual harassment when: (1) submission to or rejection of such conduct is made either explicitly or implicitly a term or condition of an individual's employment, (2) submission to or rejection of such conduct by an individual is used as the basis for decisions about employment, promotion, transfer, selection for training, performance evaluations, benefits, or other terms and conditions of employment; or (3) such conduct has the purpose or effect of substantially interfering with an individual's work performance or creating an intimidating, hostile, or offensive work environment.

If you believe you have been harassed on the basis of your sex, race, national origin, ethnicity, religion, or any other legally protected background as described in this Handbook, by any individual, including management personnel, employed by the City, you should immediately report the incident to your Director, the Human Resources Manager, the Chief Administrative Officer or the City Clerk. If your supervisor is one of the above or it involves a Council member, you should report harassing conduct to the Mayor. Such charges shall be promptly investigated and, if substantiated, the offending individual will be appropriately disciplined. To the extent possible, all persons involved in a complaint of harassment will be given the utmost protection of privacy, and such matters will be handled as discreetly and confidentially as possible. Persons complaining of harassment will be protected from reprisals and retaliation by other employees as a result of such complaints, and any claim of retaliation, or complaint of filing false harassment claims, shall be investigated and disciplinary action and disciplinary action may be taken, whenever found warranted.

2-9. Substance Abuse in the Workplace

The City of Hattiesburg is committed to maintaining a workplace free of alcohol or drug abuse, and therefore prohibits the sale, possession, and use of alcohol and/or drugs. You will be tested — and must successfully pass — a drug and/or alcohol test before the offer of employment is confirmed. You are subject to testing during your employment with the City for reasonable suspicion and after an accident/incident. A positive test is grounds for immediate termination. Employees in the positions of sworn police, sworn fire, equipment operators, plant operators, employees in Mass Transit, and any other position requiring a CDL are subject to random testing. Should you face the problem of drug/alcohol abuse, please know that you have the option, before testing, of accepting help through the City's Employee Assistance program. However, you can't ask for help after an incident or accident has already occurred. In addition, accessing the Employee Assistance Program does not mean you cannot be disciplined if warranted if you violate City policy, even if the discipline is for actions that are traceable to substance abuse. You are given a copy of the City's Substance Abuse in the Workplace Policy and Program upon employment. This policy is incorporated by reference herein. A violation of this policy may result in disciplinary action ranging from a verbal warning up to discharge from employment.

2-10. Intimate Relationships

You, as an employee, are encouraged to socialize and develop professional relationships in the workplace provided that these relationships do not interfere with the work performance of you or the other person. When you engage in personal relationships (including romantic and sexual relationships) you should always be aware of your professional responsibilities and assure that the relationship does not raise concerns about favoritism, bias, ethics and conflict of interest.

Romantic or sexual relationships between employees, even if consensual, where one individual has influence or control over the other's conditions of employment are inappropriate and prohibited. These relationships or behavior may result in disciplinary action up to and including immediate termination of employment for both parties.

2-11. Personal Phone Calls or Text Messages

Please place your cell phone on vibrate or silent mode when in city buildings. No-hands free cell phone devices are to be worn while at work at any time.

In conducting personal business while at work, you are expected to exercise the same discretion when using personal cellular phones as when using City of Hattiesburg phones. Making or receiving personal calls or text messages during the workday, regardless of the phone used, will interfere with productivity and may distract others.

You are asked to keep personal phone calls, received or made, during work hours to a minimum and to limit them to no more than three (3) minutes at a time. Although the City of Hattiesburg understands you may have personal obligations you feel demand immediate attention, City policy requires you make and receive personal phone calls and/or text messages during non-work-time. Please make sure family members and friends are made aware and adhere to the City's policy.

If an emergency arises, you may be contacted through your supervisor.

You should have no expectation of privacy in the use of City owned cell-phones, computers or other electronic devices. These devices may be searched and monitored.

2-12. Personal Use of City Provided Cellular Phones or Devices

Business cellular phones or other devices may be issued to employees as a necessary part of their jobs. City-issued cellular phones or devices are to be used for business purposes only. If you use a city-issued phone or other device for personal business, you may be required to reimburse the City.

As stated previously, employees should have no expectation of privacy in the use of City owned cell-phones, pagers, computers or other electronic devices. These devices may be searched and monitored.

2-13. Safety Issues for Use of Cellular Phones or Devices

City employees are bombarded with distractions when driving. Limiting the use of cellular devices during this time is one way to minimize the risk of an accident for our employees. Safety must come before all other concerns.

If your job responsibilities include regular or occasional driving, whether in a City-owned or personal vehicle, while on City time, you are expected to refrain from using any type of cell phone while driving a vehicle. Sending or reading text messages, surfing the Internet, receiving or responding to email, and checking text messages is **prohibited** while driving. (Note: Bluetooth may be used for conversation only in vehicles that have capability.)

You should pull safely off of the road and stop your vehicle before placing or accepting a phone call or reading/sending a text message. Texting while driving is not only against City policy but it is also illegal.

You are acting outside the scope of your employment if you use a cell-phone while driving. You are never to place yourself or others at risk to fulfill business needs.

If you are charged with traffic violations occurring because you were driving while using a City-issued or personal cell phone or other device or sending/reading text messages, you will be solely responsible for all liabilities that result from your actions and will be subject to disciplinary action up to and including termination of employment.

2-14. Assigned City Equipment

If you have been assigned City equipment for the performance of your job duties, it must be returned in good condition by your last day of employment or when requested. Should you fail to do so, the fair market value of the equipment may be withheld from your earnings or accrued time as allowed by law.

You are also expected to protect City equipment (i.e., cellular phone, radio, laptop, etc.) assigned to you from loss, damage, or theft. You may be responsible for repaying the City for lost or damaged equipment assigned to your care. If equipment assigned to you is stolen, you must complete a police report. City policy prohibits the misuse or use of City equipment for personal business. You should have no expectation of privacy in the use of City-owned cell phones, pagers, computers or other electronic devices. These devices may be searched and monitored.

2-15. Assignment or Use of City Vehicle

If you are assigned or use a city vehicle and receive a vehicle citation while using that vehicle you are personally responsible for reporting the incident to your immediate supervisor and payment of the citation in a timely manner. Depending on the circumstances you may be subject to disciplinary action up to and including termination of employment.

2-16. Smoking in the Workplace

The City of Hattiesburg is a smoke-free work environment. Breaks may be provided, but are not required and must be scheduled for the convenience of the department. If a break is provided, you may smoke in designated areas only and follow the City of Hattiesburg's Smoking Ordinance. Each break should be no more than fifteen (15) minutes long, and in no case should you take more than two breaks per eight (8) hour shift. Employees are not allowed to smoke in any City owned vehicle.

2-17. Driver's License

As an employee with the City of Hattiesburg you will have the potential to operate a City vehicle, motorized equipment (i.e., tractor, backhoe, etc.), or your personal vehicle while working. Therefore, unless specifically exempted by your Department Director and Administration, you are required to have and maintain a valid MS driver's license throughout the course of your employment. State law requires MS residents obtain a Mississippi license within 30 days, even if their previous license has not expired.

You are required to immediately report to your supervisor should your license expire, or becomes suspended or invalid for any reason.

If you are not exempted from having a valid driver's license for you to perform your day to day job duties and your license becomes *suspended* you will be suspended for 3 work days and given no more than 90 days to have your license reinstated. During this 90-day period of time, and only if it is feasible, you will be temporarily reassigned to duties which do not require a license. If temporary reassignment is not feasible, you will not be able to work until you obtain your valid license (you can use available Personal Leave or will be in a non-paid status.)

Failure to comply with these requirements may result in disciplinary actions up to and including termination of your employment.

2-18. Dress Code

The dress code and appearance of City employees is a direct reflection on the

professionalism of our services. City employees meet with the public daily as part of their regular work day. A neat, well-groomed employee will present a positive image of the City and demonstrate the pride of our City employees. Our appearance and attire have a definite impact on the way we are perceived by others and the confidence that citizens have in our ability to provide quality services.

City employees are expected to be neat, clean, and dress in attire appropriate to their positions. The following information should guide employees on proper dress in the workplace. Although it is difficult to develop a policy that will cover all individual variations in dress and style for each work situation or circumstance, the following guidelines have been established based on public image, job safety, and personal hygiene.

Non-Uniformed Personnel – Office Environment:

The following items of clothing are considered inappropriate for the office environment (Guidelines apply to full-time, part-time, interns, work-study, etc.)

- T-shirts or sweatshirts (unless with supervisor approval)
- Tube tops, halter tops, tank tops, muscle shirts
- Sweat pants or workout clothes
- Any clothing that is overly revealing or outlandish so as to cause distraction
- Clothing with advertisements (City-related logos are acceptable)
- Body-hugging clothing, including leggings and spandex garments
- Shorts
- Jeans (except on Casual Fridays)
- Military or hunting clothes
- Athletic shoes, tennis shoes, flip flops

Leggings are allowed if paired with an appropriate upper garment that is no more than 3 inches above the knee. Cardigan sweaters, dresses or full-length blazers are recommended attire with leggings. Long shirts are not considered a dress. The employee should be conscious of the length of attire to ensure professionalism is maintained.

Casual Friday is considered a casual dress day. Although considered more casual than the normal business attire, the guidelines set forth previously are to be followed. Jeans must not be overly worn, faded, or in disrepair.

Field workers in the office setting for a full day shall follow the same guidelines for non-uniformed personnel.

Please exercise good judgment when dressing for work. Violations may be just cause to require that you leave the work site to change into appropriate attire; you **will not** be paid for

work time missed if you are required to change clothes.

2-19. City Identification Badges

Upon employment, you are provided a City badge identifying you as an employee and listing your position and department. Badges are to be worn while at work and when on official City business unless you are working in certain outside jobs and wear a city uniform with your name on the shirt.

You are required to return your badge to your supervisor if you resign or your employment is terminated. If a badge is lost, there is a replacement fee to obtain a new one as allowed by law. Damaged badges will be replaced at no cost but may result in disciplinary action.

2-20. Solicitation

The City of Hattiesburg limits solicitation and distribution on its premises because such activities can interfere with normal City operations, can be detrimental to efficiency, can be annoying, and can pose a threat to security.

Persons who are not employed by the City are prohibited from soliciting funds or signatures, conducting membership drives, posting, distributing literature or gifts, offering to sell or to purchase merchandise or services (except by representative of properly identified supplies), or engaging in any other solicitation, distribution, or similar activity on City property. The City of Hattiesburg may authorize a limited number of fund drives by employees on behalf of charitable organizations.

The City may permit employees to engage in solicitation or distribution of literature for any group or organization, including charitable organizations, within the following guidelines:

- The sale of merchandise is limited to City functions and activities. Solicitation and distribution of literature with proper approval from Administration should not interfere with work time of either the employee making the solicitation or distribution, or the targeted employee. The term “work time” does not include an employee’s authorized lunch or rest period or other time when the employee is not required to be working.
- The City of Hattiesburg maintains bulletin boards to communicate City information to employees and to post notices required by law. Any unauthorized posting of notices, photographs, or other printed or written material on bulletin boards or any other City property is prohibited. There is only one community bulletin board. It is located on the second floor of City Hall outside of Council Chambers.

2-21. Social Media Policy

- The City of Hattiesburg respects the right of employees to use social media and networking sites as well as personal websites and blogs, but it is important that employees’ personal use of these sites does not damage the reputation of the City or have the potential to affect the operations of the City.
- All employees of the City of Hattiesburg shall observe the following while participating in any social media websites.

Access of social media websites for individual (personal) use during hours when an employee is on duty is prohibited.

Employees shall not post any data, documents, photos or other information to any website or application that has the potential to affect the operations of the City.

Employees shall never use their personal social media accounts in any way purporting to be or speaking for the City of Hattiesburg.

- Violation of any of these policies may result in disciplinary action up to and including termination.

CHAPTER THREE
EMPLOYMENT BENEFITS

3-1. Holidays

Full-time employees receive regular pay for ten (10) legal holidays and for any other day proclaimed as a holiday by the Governor or the President of the United States (section 3-3-7, Mississippi Code of 1972, Annotated, as amended).

If you are a full-time employee, you are required to work your regularly scheduled workday immediately before and after a scheduled holiday to be eligible to receive holiday pay, unless you are on an approved leave of absence, or have requested and been approved in advance to use your accrued personal time off. If you do not have available personal time, you must work the workday immediately before and after a holiday to be eligible to receive pay for the holiday. If you become sick and have to miss the day before or after a holiday, you must submit a physician's certification of illness or a physician's excuse to your supervisor immediately upon your return to work to be eligible for the holiday pay.

The legal holidays are as follows:

January 1	New Year's Day
The Third Monday of January	Martin Luther King's Birthday
The Third Monday of February	Washington's Birthday/President's Day
The Last Monday of April	Confederate Memorial Day [the City substitutes the Friday before Easter Sunday (Good Friday) in lieu of Confederate Memorial Day]
The Last Monday of May	Memorial Day
July 4	Independence Day
The First Monday of September	Labor Day
November 11	Armistice or Veteran's Day
A day fixed by proclamation by the Governor	Thanksgiving Day

of Mississippi as a day of Thanksgiving, which shall be fixed to correspond to the date proclaimed by the President of the United States.

December 25

Christmas Day

The exact dates for observing holidays are published following formal Council adoption each year. If you are a full-time employee who is required to work on an announced holiday, you will receive holiday pay (or equitable compensatory time) and pay for actual hours worked. Holiday pay does not count as hours worked for determining overtime. If you are an exempt employee scheduled to work during a holiday, you may take the holiday at a later date as approved by your supervisor. A holiday cannot be taken before it occurs.

The City of Hattiesburg reserves the right to decrease or add additional holidays each year, as it deems appropriate.

3-2. Personal Leave

A. Accrual

Full-time employees accrue personal leave time based on continuous full-time employment. You are not allowed to use accrued personal leave until you have reached your six-month period of full-time employment.

Full time employees accrue personal leave time hours as indicated below:

Continuing Full Time Employment	Accrual Rate Monthly	Days Earned Annually
1 month - 2 years	8 hours	12 days
25 months - 12 years	12 hours	18 days
145months - 20 years	16 hours	24 days
241months and longer	18 hours	27 days

Advances on personal leave are not permitted.

B. Accumulation

There is no limit to the accumulation of personal leave. Unused personal leave will be carried over from year to year.

C. Payout

If you are resigning or retiring, upon separation of employment you may request to be paid up to 30 days (240 hours) of earned, unused personal leave. All remaining unused accrued personal leave will be certified to the Public Employees Retirement System (PERS) for award as creditable service under the state retirement plan.

D. Personal Leave Request

All personal leave off must be requested and approved in advance by your manager/supervisor. Occasionally situations may arise where you need to be off and requesting off in advance is not an option. Those situations will be handled on a case by case basis and are at the sole discretion of your supervisor.

When requesting off three (3) or more consecutive days, you should provide your manager a minimum of two (2) work weeks of notice. Some departments may require longer, so be sure to check with your supervisor. Unused Holidays and accrued compensatory time must be exhausted before you may use accrued personal leave.

3-3. Sick Leave

A. Accrual

As a full-time employees accrue sick leave time based on continuous full-time employment. Leave cannot be taken before it is earned.

You are eligible to request to use sick leave as soon as it is accrued.

<u>Continuing Full Time Employment</u>	<u>Accrual Rate Monthly</u>	<u>Days Earned Annually</u>
1 month to 2 years	8 hours	12 days
25 months to 12 years	7 hours	10.5 days
145 months to 20 years	6 hours	9 days
241 months and longer	5 hours	7.5 days

B. Accumulation

There is no limit to the accumulation of sick leave. Unused sick leave will be carried over from year to year.

C. Usage

You may only use accrued sick leave for the following reasons:

1. Absence from work due to personal illness
2. Absence from work for a doctor's appointment (includes dentist, eye, etc.)
3. Absence from work due to an approved Family Medical Leave qualifying event (even if an immediate family member)
4. Absence from work (maximum of 3 days) for the death of an immediate family member (spouse, child, parent, brother, sister, grandparents, grandchildren, or similar relationships that are "in-law" or "step."). This is called Emergency Leave.

D. Documentation Required

You are required to submit a physician's certification of illness (sick excuse) before you will be allowed to use accrued sick time for the following reasons:

- on the 3rd consecutive day of illness
- for a medical condition that will require periodic absences from work for a time frame beyond your initial absences
- for a Family Medical Leave event
- when your supervisor has notified you in writing that a physician's certificate of illness will be required for further absences for a specific period of time due to illness/doctor's appointment
- when you miss work due to illness the work day before or the work day after a holiday.

If at anytime, 10% or more of employees scheduled to work in a department designated as vital to the safety of the City of Hattiesburg (Sworn Fire and Police) or to ensure City functions (Sanitation, Water, Mass Transit, etc.) are out at the same time due to illness, all employees who missed work during that period will be required to present a doctor's certificate of illness upon their return to work.

E. Payout

You will not be paid out your accumulated, unused sick hours upon separation of employment. Rather, the unused hours will be certified to the Public Employee's Retirement System (PERS) for award as creditable service under the state retirement plan.

3-4. Administrative Leave

A. Administrative Leave - With Pay

The Mayor may grant you administrative leave with pay when you must serve as a juror, City witness or party litigant in City-related cases, as verified by the clerk of the applicable court (such leave may be in addition to any fees paid for such services). Verification must accompany your timesheet.

The Mayor may also grant administrative leave with pay for a specific length of time if you are involved in a traumatic situation and leave is recommended by your Chief or Director, or if you are under investigation for a violation of City policy and it is in the best interest of the City that you not appear at work. This type of administrative leave is usually of a short duration.

The Mayor may also grant administrative leave with pay in the event of extreme weather conditions or in the event of a man-made, technological, natural disaster, pandemic or other emergency.

B. Administrative Leave - Without Pay

As a City employee, you may be placed on leave without pay for disciplinary reasons and upon approval of your Chief or Director and the Mayor. However, the Mayor may permit you to continue to work when you, with a recommendation from your Director, request instead that a like number of days be deducted from your personal or compensatory leave accumulation, or a combination thereof. Suspension for disciplinary reasons with pay is prohibited.

In extreme and rare situations, you may be allowed to take leave without pay for a period of time not to exceed six (6) months. Leave without pay is granted on a case-by-case basis after all accrued leave is exhausted and if you are not eligible or no longer eligible for Family and Medical Leave. Your Chief or Director, with the Mayor's knowledge and approval, may grant leave without pay for up to one (1) month; only the Mayor can approve leave without pay for periods longer than one month (up to six months).

While on leave without pay, you will be placed on inactive status and will not be eligible to accrue benefits. You also will be responsible for paying individual or family insurance premium(s) each month to maintain coverage. You may choose to drop coverage if it is not under the Section 125 Cafeteria plan, however, if health insurance is terminated you will have to wait until the first of the month after 90 days of active status for your health insurance to go back into effect. You will not be able to pick up coverage again on optional benefits such as dental, vision, etc. until the City's annual open enrollment period.

Upon your timely return from an approved Administrative Leave - Without Pay, you

will be guaranteed your prior position or a position of equal status and equal pay.

3-5. Leave of Absence from Work

The City follows all legal requirements for allowing employees to be off from work including Pregnancy, Family and Medical Leave, and Military. A leave of absence is granted when your department can spare you, when your employee record justifies the privilege, and/or when there is a legal requirement to do so. An approved leave of absence does not guarantee you a job when you are able to return to work, except for Military and Medical Leave. Please contact the Human Resources Department for specifics on any leave of absence from work.

3-6. Jury Duty and Court Appearances

If you are selected for Jury duty, special leave with pay will be granted at your normal rate of pay. You must present a certificate from the court that indicates the date(s) of service to the Human Resources Department.

Should the court excuse you during your normal work hours, you are to report to work.

3-7. Voting

The City of Hattiesburg fully supports our democratic system and affords all of its employees an opportunity to exercise their right to vote. Upon the approval of your supervisor or manager, you may take up to two hours of compensatory or accumulated personal leave should it be impossible to vote either before or after your normal work schedule.

3-8. Employee Assistance Program

As an employee of The City of Hattiesburg, you have access to the Employee Assistance Program (EAP). EAP offers a variety of services to you and your spouse, and/or your dependent children, including personal assessments, referrals, counseling, and educational information to assist in resolving personal problems.

All contacts with EAP are handled professionally and are strictly confidential.

You have two avenues of referral:

- Self- Referral - You recognize that there is a problem and call the EAP to request an assessment. After the assessment, a recommendation and referral will be made for counseling or treatment.
- Supervisor /Mandatory Referral - A supervisor, recognizing a decline in job

performance and suspecting that personal problems may be a significant factor, consults with Human Resources and directs you to obtain an assessment from EAP. After the assessment has been completed, a recommendation and referral will be made and counseling or treatment may begin if needed. As a condition of continued employment, you are required to abide by the recommendation from EAP.

Please contact the Human Resources Department for information on the City's current provider.

3-9. Employee Health Clinic

Employees and eligible dependents may access the City's Employee Health Clinic. It is staffed by a Nurse Practitioner and a Lab Technician to provide free non-emergency health care. All services provided at the clinic are FREE! Un-insured City employees and their eligible dependents may also use the clinic but are required to pay a fee for each office visit and pay the cost for labs performed.

3-10. Employee Professional Development/Training

As an employee you may be afforded an opportunity to enhance your work skills. Details on training offered will be provided by your supervisor.

3-11. Worker's Compensation

The Mississippi Workers' Compensation Law covers all City employees. This law provides certain benefits in the event you suffer a work-related illness or injury. In case of a work-related fatality, this law guarantees the payments of benefits to your spouse and/or dependents. These benefits are provided at no cost to you or your dependents. Contact the Risk Management department for specifics.

You must report any work-related illness or injury to your immediate supervisor as soon as possible so appropriate medical treatment can be arranged. Timely reporting also insures you will be paid all wage loss benefits without undue delay.

3-12. Payroll Deductions for Benefits

Full-time, regular status employees are entitled to receive health, dental, or vision group insurance. Only single group health is provided free of charge. If you elect to cover yourself, you may also elect to cover your dependent(s).

Dependent Classification

You must be legally married in order to insure someone as a spouse.

To insure a child as a dependent, he/she MUST be:

- You or your spouse's biological child, OR
- You or your spouse's legally adoptive child, OR
- You or your spouse's legal foster child, OR
- You or your spouse is the legal guardian of the child, AND
- The child is age 26 or under to be covered under the group health plan, OR age 25 and under AND a full-time student at a college or university to be covered under the group dental or vision plan. For the group dental and vision plans, the college or university must provide verification of full-time enrollment status each fall by September 15 and again in the spring semester by January 15 of each year the dependent remains covered.

A. Health Insurance

As a full-time, regular status employee, you are provided health insurance coverage by the City of Hattiesburg on the first of the month following the completion of sixty (60) days of continuous full-time employment. Dependent coverage is available and is paid through payroll deduction. Should you wish to add dependent coverage at a later date, it can only be done during the City's annual Open Enrollment period unless you have a "qualifying event."

Changes must be made within 31 days of the "qualifying event." Please contact Human Resources if you have questions about "qualifying events."

If you enter into an inactive status, you are responsible for paying the total premium for single health (as well as family health, if applicable) until the time you return to full-time active status.

Upon termination/retirement you may elect to remain on the City's health insurance for the time period allowed by the Consolidated Omnibus Budget Reconciliation Act (COBRA). You are responsible for paying the total monthly premium.

B. Basic Life Insurance

As a full-time, regular status employee, you are provided a Basic Term Life and Accidental Death and Dismemberment Insurance policy of \$20,000. The effective date of coverage is the same as the health insurance, on the first of the month following the completion of sixty (60) days of continuous full-time employment.

C. Optional Term Life Insurance

As a full-time, regular status employee, you are provided an opportunity to purchase additional term life insurance. Group rates are based on your age. Coverage may also be obtained on your spouse and/or dependent children if you choose the additional voluntary life. If a newly eligible employee, you are given a one-time opportunity to obtain up to a \$100,000 policy without underwriting requirements. Spouses and dependents do not have the same guarantee. The effective date of coverage is the first of the month following the completion of sixty (60) days of continuous full-time employment. After initial eligibility, coverage can only be added during the City's annual Open Enrollment period.

D. Dental Insurance

As a full-time, regular status employee, you may elect to purchase group dental insurance, paying your premiums through payroll deduction. The effective date of coverage is the first of the month after sixty (60) days of continuous full-time employment. Dependent coverage is also available. Should you wish to add dependent coverage at a later date, it can only be done during the City's annual Open Enrollment period unless you have a "qualifying event." Changes must be made within 31 days of the "qualifying event." After initial eligibility, coverage can only be added during the City's annual Open Enrollment period.

Upon termination/retirement you may elect to remain on the City's health insurance for the time period allowed by the Consolidated Omnibus Budget Reconciliation Act (COBRA). You are responsible for paying the total monthly premium.

E. Vision Insurance

As a full-time, regular status employee, you may elect to purchase group vision insurance, paying your premiums through payroll deduction. The effective date of coverage is the first of the month after sixty (60) days of continuous full-time employment. Dependent coverage is also available. Should you wish to add dependent coverage at a later date, it can only be done during the City's annual Open Enrollment period unless you have a "qualifying event." Changes must be made within 31 days of the "qualifying event." After initial eligibility, coverage can only be added during the City's annual Open Enrollment period.

Upon termination/retirement you may elect to remain on the City's health insurance for the time period allowed by the Consolidated Omnibus Budget Reconciliation Act (COBRA). You are responsible for paying the total monthly premium.

F. Retirement

Another one of the great benefits you receive as an employee working for the City is your required participation in the Public Employee's Retirement System (PERS) of Mississippi. If you are an eligible employee, both you and the City contribute a percentage of your gross pay each payroll towards your individual retirement account. Currently you will be required to contribute 9% of your gross and the City will contribute 15.75%! This contribution rate may be adjusted in the future by the PERS retirement system. Please go to the Public Employees Retirement System website at www.pers.state.ms.us for additional information as well as current percentages.

If you do not retire but leave public service, you may obtain a refund of your contributions, less 20% withholding for income tax purposes. A penalty may be assessed; retirement contributions are not taxable until they are withdrawn. Please contact the Human Resources Department for additional information.

G. Deferred Compensation

Deferred Compensation is a supplemental, voluntary savings plan administered by the Public Employee's Retirement System offering tax advantages to participants. If you choose to participate, you may set aside part of your salary each year; income tax liability is postponed on that part of the salary until the year you receive the deferred amount. Interest and/or earnings also are tax deferred until withdrawal. Please contact Human Resources for more information

H. Section 125 Cafeteria Plan

The City of Hattiesburg participates in a tax savings mechanism permitted by

Section 125 of the Internal Revenue Code and Sections 25-17-1 to 25-17-9, Mississippi Code of 1972, Annotated, as amended. A Section 125 plan, also legally known as a "cafeteria plan," allows you to payroll deduct, before taxes, premiums paid for health, dental, vision, accident, and other policies. If you place an item under the cafeteria plan, you are prohibited by law from dropping the elected coverage for one year or until the next "Open Enrollment" effective date, unless you experience an eligible "qualifying event." A qualifying event includes marriage or divorce, employment termination, birth or adoption of a child, and loss of a dependent due to age or death. If you experience a qualifying event, you may make

changes to your coverage within 31 days of the qualifying event; any changes must be directly related to the qualifying event. Contact Human Resources for specifics on participating in this plan.

I. Social Security

The City and you (through payroll deduction) each contribute a percentage of your gross taxable income for Social Security/Medicare contributions. Federal law determines the amount to be withheld.

J. Federal and State Income Taxes

As required by law, the City will deduct federal and state income taxes from each of your paychecks. The amount withheld is based on your gross income, marital status, and the number of exemptions you claim and the current tax table.

K. Credit Unions

As a City employee, you may join Central Sunbelt's Federal Credit Union and Southern Mississippi Federal Credit Union for savings or checking accounts or personal loans and have those items withheld as payroll deductions.

L. Garnishments

The City of Hattiesburg will process employee garnishments as required by law. Should you be involved in a garnishment, please know that as long as your financial concerns do not interfere with your job performance, the City of Hattiesburg will merely make the deductions and payments as required. If they do interfere with your job performance, the City may take disciplinary action, as related to your job performance.

M. Optional Deductions

During Open Enrollment, authorized vendors will be on hand to offer additional insurances, such as accident/disability, life, etc. You may sign up for these items and have them payroll deducted during the Open Enrollment Period. In addition, you may join the Family Y and/or the Institute for Wellness and Sports Medicine any time during the year and have those monthly fees payroll deducted.

3-13. Grievance Process

The City of Hattiesburg does its best to provide you fair and equitable treatment. It also encourages you to discuss problems that may arise concerning your working conditions or the treatment you receive in the workplace. Therefore, a grievance process has been established to provide you a mechanism to resolve your issues of concern and a subsequent appeals process.

Ultimately, the grievance process is designed to:

- Resolve the grievance in a manner that is timely and that avoids bias and unfair employment practices;
- Settle the dispute at the lowest management level possible;
- Correct the cause of the grievance, if appropriate and if possible, and prevent future similar complaints;
- Afford the aggrieved party all the applicable safeguards of procedural due-process; and
- Guarantee that as an employee who files a grievance, you are free from reprisal.

The grievance procedure is a step-structured, time-limited process. You may file a formal grievance through this process. However, if you are sworn Police or Fire personnel you are not to use this process, please refer to your Civil Service grievance guidelines.

Employment actions or issues that you may dispute (grieve) are listed below:

- Disciplinary actions (non-sworn personnel only);
- Application of personnel policies, procedures, rules, regulations, ordinances, and statutes;
- Acts of reprisal against you for filing a grievance;
- Complaints of discrimination on the basis of race, color, creed, political affiliation, religion, age, disability, national origin, or gender;
- Performance appraisal ratings, if they affect or potentially may affect your employment status or compensation.

If the employment action is a suspension, demotion, or a reduction in pay, you may dispute these issues by submitting a written, signed, dated document directly with the Chief Administrative Officer (CAO) within five (5) working days from the employment action. The CAO will meet with you within five (5) working days of receiving the document of dispute, and after consultation with the Mayor, will provide you a written response within ten (10) working days of this meeting. This written decision will be final.

The following are employment actions or issues that you may NOT dispute (grieve):

- Issues which are pending or have been concluded by direct appeal through administrative or judicial procedures;
- Relocation or transfer;
- Temporary work assignments which do not exceed 90 days;
- Budget and organizational structure, including the number or assignment of employees or positions in any organizational unit;
- Performance standards and performance elements established as criteria for performance appraisal;
- The selection of an individual to fill a position through promotion, transfer, or demotion, unless it is alleged that selection is in violation of a written City policy or Civil Service statutes;
- Internal security practices;
- Termination or lay-off from duties because of lack of work, reduction of the work force or job abolishment;
- Any matter which is not within the jurisdiction or control of the appointing authority;
- The content of published City or department policy;
- An action by the City pursuant to federal or state law;
- Establishment and revision of the compensation plan (HAV Pay), position classification, and general benefits;
- At Will Employment.

Technical Assistance The Human Resources Division, will provide technical assistance in grieving/appealing issues or actions. Such assistance will not include the actual preparing of grievances/appeals and responses but may include reviewing drafts to assure the forms are technically correct.

Grievance Procedure:

- people
- Step I.
- a. You should first discuss the issue with your immediate supervisor and make every effort to resolve the issue before filing a formal grievance. Submit your concerns in writing to your immediate Supervisor within five (5) working days of the effective date of the action causing concern. There is not a form that you must use, just write your complaint. Be specific as possible. Include dates, involved, etc. to fully explain what happened. Be sure to include your signature and the date on the document you submit to your manager.
 - b. Your immediate supervisor will meet in person with you within five (5) working days of receiving your written grievance.
 - c. After your meeting, you will receive a response in writing from your Supervisor within five (5) working days.

- Step II .
- a. If you do not agree with your supervisor's response, you may, if desired, further grieve the issue by submitting to your Department Director a signed and dated written document stating you do not agree with the outcome of your meeting with your supervisor and the reason for your disagreement. Be specific. You must submit this written document within five (5) working days of your immediate supervisor's written response.
 - b. Your Department Director will meet with you within five (5) working days of receiving your grievance to discuss your concerns. You will receive a written response within five (5) working days of that meeting.
- Step III.
- a. Finally, if you do not agree with the Director's written response, you may further grieve the issue with the Chief Administrative Officer (CAO) by submitting to your Department Director a signed and dated, written document stating you do not agree with the outcome of your meeting and the reason(s) why. Be very specific. This written document must be submitted within five (5) working days of your receipt of your Director's written response.
 - b. The CAO (or designated other) will meet with you within five (5) working days of receiving your grievance and will respond in writing within ten (10) working days of that meeting. The CAO's decision will be final. Should the Department Director or CAO not be available, a person may be designated to act in their stead to continue the process. The CAO or designee's decision will be final.

Time Limit: If you do not initiate the grievance of an issue within the time as set forth above, it will be dismissed. Also, if your grievance is not advanced to the next step within the specified time limit, or within an agreed-upon extension of that limit, it will be considered settled on the basis of the response. Time limits on each step may be extended by mutual agreement of the parties involved. The extension must be in writing, dated, and signed by all parties.

CHAPTER FOUR

EMPLOYEE DISCIPLINE

4-1. Discipline Procedures

The City is committed to a disciplinary procedure that is more corrective and constructive than punitive. Disciplinary actions may arise when an employee violates any rules, regulations, or policies/procedures governing his/her employment, when an employee is guilty of offenses or misconduct which violate general rules of civil behavior, or for offenses against the City.

Normally, the disciplinary procedure to be followed is progressive in nature, as outlined below. However, each situation is considered individually, and the City reserves the right to bypass any of the normal process should circumstances warrant.

- A. Oral Reprimand - Designed to allow a supervisor to give informal, corrective guidance to an employee for a minor infraction or misbehavior.
- B. Written Reprimand - Designed to be issued when an employee has committed a more serious infraction or misbehavior or has repeated a minor infraction or behavior for which he/she has already been warned.
- C. Suspension-Without Pay - This action may be taken when an employee has committed a third infraction or misbehavior for which he/she has been reprimanded twice, either orally or in writing, previously or if an infraction or misconduct of a more serious nature occurs. An employee may be suspended without pay for up to five (5) working days. For suspensions greater than one day, the days will be consecutive work days. When, in the opinion of the director/chief, actual time-off would hinder the operation of the division/department, the employee may be offered the opportunity to have an equivalent number of days deducted from his/her vacation leave and/or compensatory time accruals. In either case, the notice of suspension will include notification of his/her grievance/appeal rights.
- D. Termination: - When infractions or acts of misconduct are repeated or where a single infraction or misconduct is severe, an employee may be terminated from City employment. Terminations will be effective immediately with the employee being advised of his/her grievance/appeal rights.
- E. Personal Conduct - City employees are always in the public eye. It is, therefore, especially important that actions which bring discredit to the City should be avoided in our relationships with the public and each other as fellow employees. Conduct by employees should conform to published rules and regulations and accepted customs

and standards of courtesy, conduct and cooperation. Listed below are examples of actions and conduct (although this is not an exhaustive list) which are unacceptable to the City and may result in disciplinary action, up to and including termination of employment. This policy is not all-inclusive, and the City of Hattiesburg reserves the right to add to or amend to this policy as necessary.

- a. Unauthorized absences or excessive tardiness. Three (3) days no call, no show employee is subject to immediate termination.
- b. Abuse of City Leave Policy
- c. Leaving work without permission or stopping work before time authorized
- d. Conviction of a felony or a crime involving moral turpitude, or a job-related Misdemeanor, or conviction of embezzlement
- e. Conduct unbecoming a City employee
- f. Negligence in performing job duties
- g. Failure to follow instructions of individuals in line of supervisory authority
- h. Insubordination
- i. Willful disregard or violation of safety rules
- j. Failure to report an accident, incident and/or injury
- k. Unauthorized use or mis-use of City equipment or property (including traffic signal control devices)
- l. Theft or removal of City property or that of a fellow employee
- m. Involvement in an accident chargeable to the employee while operating a City vehicle
- n. Accidents/incidents chargeable to the employee that result in injury and/or property damage
- o. Possession, use, distribution or sale of drugs or alcohol on the job
- p. Reporting to work under the influence of alcohol or drugs
- q. Testing positive (as defined by the alcohol/drug testing policy) on an alcohol/drug test
- r. Falsifying leave or work records, giving false information, or giving false testimony in an administrative or judicial proceeding
- s. Use of abusive language
- t. Threats against supervisors, co-workers, or other individuals encountered in the performance of his/her duties
- u. Fighting on the job
- v. Failure to cooperate in an internal investigation, including but not limited to, taking a polygraph examination
- w. Failure of a supervisor to discipline his/her employees at all or consistently

CHAPTER FIVE

EMPLOYEE ATTENDANCE

5-1. EMPLOYEE ATTENDANCE

There are two types of missed work time: Tardy or an Absence.

A. Tardiness

It is important for the operations of the City of Hattiesburg that you are at work and available to begin working at your scheduled start time. Tardiness causes undue hardship on co-workers and diminishes the City of Hattiesburg's service to its citizens.

Tardiness is defined as beginning the workday after your scheduled start time without prior authorization or returning from a rest or lunch period after your scheduled return time without prior authorization; even if you clocked in within the established rounding window for the timekeeping system and your pay is not being adjusted for the minutes late (docked). For any tardy in excess of 2 hours, you will be dismissed for the remainder of the day and will not be allowed to use accrued leave time.

This policy is not all-inclusive, and the City of Hattiesburg reserves the right to add to or amend to this policy as necessary.

B. Absences

There are two types of absences from work; Excused Absence and Unexcused Absence

Excused Absence

For an absence from work to be considered excused, your supervisor must approve the absence **prior** to your missing work. Under certain circumstances (i.e.; absences falling under FMLA, etc.) absences may be excused after an absence. To ensure departmental needs are being met and to allow proper scheduling, you should request time off less than 4 hours at least 12 hours in advance. Time off of 4 hours or more should be requested at least 3 workdays in advance.

Unexcused Absence

An unexcused absence should only occur in cases of unforeseeable circumstances or emergencies.

You are required to personally notify your supervisor that you need time off before the start of your work shift, unless you are hospitalized or otherwise physically unable to do so. Divisions may establish specific guidelines setting the minimum amount of notice that must be given and how you are to call in. Be sure to follow these guidelines to ensure you are meeting your departmental requirements.

If you are abusing your accumulated leave time, your manager may notify you in writing that you will not be allowed future use of your accumulated sick leave time without a written physician's excuse until notified in writing the requirement is lifted.

You are required to work your scheduled work day immediately before or after a City approved Holiday to be eligible for Holiday pay unless you are on approved paid Leave (Personal or Sick).

This policy is not all-inclusive, and the City of Hattiesburg reserves the right to add or amend to this policy as deemed necessary.

CHAPTER SIX

LEAVE PAYMENT – RESIGNATION OR TERMINATION OF EMPLOYMENT

Disclaimer: While the City of Hattiesburg does acknowledge different types of separations from employment and places higher merit on forms of separation such as resignation for unforeseen reasons, PERS statutes do not

The City of Hattiesburg has established the following guidelines for paying your accrued personal leave, accrued sick, and earned compensatory time when you terminate (leave) employment.

6-1. Resigning and Terminated Employee

A. Personal Leave Hours

If you have been employed in a permanent full-time position six months or greater and resign from the City of Hattiesburg, your final check may include pay for unused personal leave; state statute limits this pay to thirty (30) days of accrued hours (total of 240 hours).

As standard procedure, Human Resources will pay your available accrued hours (up to 240 hours) on your final check unless you submit a written request for **less** hours to the Human Resources Department by 5:00 p.m. the Monday before the Friday of your final payday (should that Monday be a holiday, you will need to contact Human Resources before the holiday to make other arrangements).

Any time you have remaining after the payout will be certified to the Public Employees Retirement System (PERS) for award as creditable service under the state retirement plan.

B. Sick Hours

You cannot be paid for accrued, unused sick hours when you are resigning. Instead, all unused time will be certified to the Public Employees Retirement System (PERS) for award as creditable service under the state retirement plan. You may not use sick hours during a resignation period unless you have presented a physician's certification of illness for the time you are sick or for the time you are visiting a doctor.

C. Compensatory Hours

Your unused earned compensatory hours will be paid out on your final payroll check. You may not use compensatory hours during a resignation period.

6-2. Retiring Employee

A. Personal Leave Hours

If you are retiring, you will be allowed to remain on payroll (if desired and you have sufficient unused accrued personal leave time) for up to 30 workdays. A workday is defined as 8 hours, therefore, the total can be no more than 240 hours. You may not use earned, unused sick leave or compensatory time, and at no time will you be allowed to remain on payroll after this date.

State statute allows you to receive a lump-sum payment on your final check for accrued personal leave hours of up to 240 hours.

As standard procedure, Human Resources will pay your available accrued hours (up to 240 hours) on your final check unless you submit a written request for less hours to the Human Resources Department by 5:00 p.m. the Monday before the Friday of your final payday (should that Monday be a holiday, you will need to contact Human Resources before the holiday to make other arrangements).

Any accrued time you have remaining after the payout will be certified to the Public Employees Retirement System (PERS) for award as creditable service under the state retirement plan.

B. Sick Hours

You cannot be paid for accrued, unused sick hours when you are retiring. Instead, all unused time will be certified to the Public Employees Retirement System (PERS) for award as creditable service under the state retirement plan. You may not use sick hours during a resignation period unless you have presented a physician's certification of illness for the time you are sick or for the time you are visiting a doctor.

C. Compensatory Hours

When you retire, your unused earned compensatory hours will be paid out on your final payroll check. You may not use compensatory hours during your resignation period.



Memorandum

To: Mayor Toby Barker and Members of City Council

From:

cc:

Date: Tuesday, August 4, 2020

Re: Approve the State Holiday Schedule as the City's holidays for the fiscal year 2020-2021 in accordance with MS Code 3-3-7, per attached list.

File Number: 2020-531
Minute Book #

Summary

Approve the State Holiday Schedule as the City's holidays for the fiscal year 2020-2021 in accordance with MS Code 3-3-7, per attached list.

Recommendation Statement

I recommend approval of said item.

Please place this on the August 4, 2020 City Council meeting for consideration.

Veteran's Day	1 day	Wednesday	November 11, 2020
Thanksgiving	1 day	Thursday	November 26, 2020***
Christmas	1 day	Friday	December 25, 2020***
New Year's Day	1 day	Friday	January 1, 2021***
Martin Luther King, Jr.	1 day	Monday	January 18, 2021
President's Day	1 day	Monday	February 15, 2021
Good Friday	1 day	Friday	April 2, 2021
Memorial Day	1 day	Monday	May 31, 2021
Independence Day	1 day	Sunday	July 5, 2020
Labor Day	1 day	Monday	September 6, 2021

Additional holidays proclaimed by the Governor for Thanksgiving, Christmas and New Year's.

Additional days proclaimed by the Governor for any other holidays may be granted by the City Council approval.

*****To be proclaimed by the Governor.**



Memorandum

To: Mayor Toby Barker and Members of City Council

From: Andrew Ellard, Director

cc: Kermas Eaton, City Clerk

Date: Tuesday, August 4, 2020

Re: Approve and authorize issuance of manual checks for CDBG Program Claims for 303 JC Killingsworth Drive {Entitlement CDBG}.
File Number: 2020-516
Minute Book #

Summary

Approve and authorize issuance of manual checks for CDBG Program Claims per attached Memorandum. {Entitlement CDBG}

Recommendation Statement

Please place this on the August 4, 2020 City Council meeting for consideration.

MEMORANDUM

TO: City of Hattiesburg Council Members

FROM: Andrew Ellard, Director Department of Urban Development

DATE: August 4, 2020

SUBJECT: Authorize Issuance of manual check for CDBG Program claims

The following request for payment is being submitted for approval during the City Council's August 4, 2020 meeting. Please authorize and approve issuance of manual checks for the claim listed below:

Recipient: Helen O'Neal
Activity: Temporary Relocation (*Substantial Rehab Project*)
Program: CDBG
Project Site: 303 J C Killingsworth
Amount Requested: \$1,800.00
Purpose of Request: Relocation assistance
(June 28 – July 27, 2020 & July 28 – August 27, 2020)
[temp relocation payment request #1 & 2]

Recipient: Hollimon Construction
Activity: Substantial Rehab
Program: CDBG
Project Site: 303 J C Killingsworth
Amount Requested: \$2,100.00
Purpose of Request:

Hollimon Construction

Curtis Hollimon
145 Hinton Drive
Hattiesburg, Ms 39401
601.270.3164

Helen O'Neal
303 JC Killingsworth Drive
Hattiesburg, Ms 39401

Gutting inside of house

Hauling debris off

Material & Labor : \$2,100.00

Curtis Hollimon

7/27/20



Memorandum

To: Mayor Toby Barker and Members of City Council

From: Ginger Lowrey, Planning Administrator

cc: Andrew Ellard, Director

Date: Tuesday, August 4, 2020

Re: Ratify and confirm the Mayor's appointment of Bernard Green (W3) to the Hattiesburg Board of Adjustment for a three year term beginning August 8, 2020 and ending August 7, 2023.
File Number: 2020-519
Minute Book #

Summary

Board of Adjustment appointment – Bernard Green W3

Recommendation Statement

Ratify and confirm the Mayor's appointment of Bernard Green (W3) to the Hattiesburg Board of Adjustment

Please place this on the August 4, 2020 City Council meeting for consideration.

BERNARD GREEN

9 Old Trace Circle • Hattiesburg, MS 39402 • (601) 606-6404
bg@globalgreenhattiesburg.com

EDUCATION

University of Southern Mississippi, Hattiesburg, MS
Bachelor of Arts in Business Administration w/ emphasis in Finance

Graduation Date: May 1994

WORK HISTORY

GLOBALGREEN INSURANCE AGENCY, Hattiesburg, MS

March 1998 – Present

An Independent Insurance Agency, *Agency Owner*

- Promote and market a wide range of highly competitive auto, home, property, business and life insurance products.
- Organize marketing events and seminars to attract new customers as well as strengthen relationships with existing clients
- Build, train and maintain a team of licensed professionals to prospect, retain, and assist new and current customers with their insurance portfolios.
- Partner with specialty and diversified markets in personal lines and commercial lines insurance

A. B. GREEN & ASSOCIATES INC., Hattiesburg, MS

September 2003 - Present

Real Estate Investment Firm, *President/Owner*

- Compiles market research and feasibility studies for profitable land and property acquisition and development
- Negotiates purchase of property and financing options/terms
- Organizes construction and development of projects including procurement of any/all necessary documentation, licenses and permits
- Markets and advertises the project for the purpose of profitable sale
- Develop and lease commercial and residential investment properties.

THE PROPERTY CENTRE LLC, Hattiesburg, MS

April 2002 – December 2006

Real Estate Investment Company, *President/Owner*

- Research and analyze current community/market situations for real estate investment opportunity
- Locate and renovate undervalued properties
- Work closely with HUD, CHDOs, NACA, Section 8, and other non-profit entities to provide housing for low-moderate income families
- Prospect, sell, and obtain financing for qualified aspiring homeowners.

AWARDS & ACHIEVEMENTS

2000 Top Allstate Agency in State of Mississippi	<i>December 2000</i>
Allstate Chairman's Inner Circle Award	<i>2010-2011</i>
Allstate National Conference Award	<i>1998-2010</i>
Allstate Life Leader Award	<i>1999-2011</i>
Allstate Honor Ring Award	<i>1998-2011</i>

LEADERSHIP ACTIVITIES

<i>Member</i> Independent Insurance Agents and Brokers of America - Big "I"	<i>2020 - present</i>
<i>Member</i> National Association of Insurance and Financial Advisors	<i>1998 - present</i>
<i>Chairman</i> West Point Baptist Church Finance Committee	<i>1999 – present</i>
<i>Vice Polemarch</i> Hattiesburg Alumni Chapter of Kappa Alpha Psi Fraternity, Inc.	<i>1993 – present</i>
<i>Board of Directors</i> Area Development Partnership	<i>2011 - 2015</i>
<i>Major (Retired)</i> United States Army Reserve	<i>1989 - 2013</i>
<i>Co-Chair, Financial Growth Committee</i> Allstate National Advisory Board	<i>2008 - 2012</i>
<i>Chairman, Marketing and Public Relations Committee</i> Pine Belt Foundation	<i>2008 - 2011</i>
<i>Commissioner</i> Hattiesburg-Laurel Regional Airport Board of Commissioners	<i>2004 - 2008</i>
<i>Board of Directors</i> University of Southern Mississippi Alumni Association	<i>2003 - 2006</i>
<i>Board of Directors</i> American Red Cross	<i>2000 - 2003</i>
<i>Ambassador</i> Area Development Partnership-Chamber of Commerce Division	<i>1998 - 2002</i>

17 Plaza Drive Ste 120 • Hattiesburg, MS 39402 • (601) 264-1628 • bernardgreen@allstate.com

BOARD/COMMISSION APPOINTMENT DATA SHEET

BOARD/COMMISSION Board of Adjustment

TERM OF OFFICE: 3 years PERIOD: August 8, 2020 through August 7, 2023

REPLACES: Rebekah Ray

NAME OF PROPOSED APPOINTEE Bernard Green

ADDRESS 9 Old Trace Circle

HOME PHONE NUMBER (601) 606-6404 WARD Ward 3

PLACE OF EMPLOYMENT Global Green Insurance Agency, A.B. Green & Associates Inc.

EMPLOYMENT ADDRESS 2200 Hardy Street, Suite 30

EMPLOYMENT PHONE NO: 601- 602-2227 POSITION: Agency Owner

PERSON CONTACTED BY Mayor Toby Barker DATE:

AGREED TO SERVE: Yes DECLINED:



Memorandum

To: Mayor Toby Barker and Members of City Council

From: Lamar Rutland

cc:

Date: Tuesday, August 4, 2020

Re: Acknowledge bids received July 23, 2020 for the Hardy Street and Concart Street Drainage and Sidewalk Improvements Project and accept the bid from Gulf South Construction in the amount of \$355,925.80 for the Base Bid and Additive Alternate No. 1; Authorize Mayor to execute contracts upon preparation.
File Number: 2020-518
Minute Book #

Summary

Acknowledge bids received July 23, 2020 for the Hardy Street and Concart Street Drainage and Sidewalk Improvements Project and accept the bid from Gulf South Construction in the amount of \$355,925.80 for the Base Bid and Additive Alternate No. 1; Authorize Mayor to execute contracts upon preparation.

Recommendation Statement

I recommend approval of this item.

Please place this on the August 4, 2020 City Council meeting for consideration.

July 27, 2020
N-S Project No. 15360.000

Lamar Rutland, P.E.
Director of Engineering
City of Hattiesburg
P.O. Box 1898
Hattiesburg, Mississippi 39403

REFERENCE: Hardy Street and Concart Street Drainage and Sidewalk Improvements

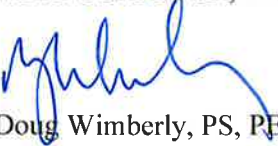
Dear Mr. Rutland:

Please find enclosed the Certified Bid Tabulation of the bids received for the referenced project which were opened and read aloud at the bid opening on July 23, 2020. Of the two (2) bids received, Gulf South Construction of Hattiesburg, MS submitted the lowest bid in the amount of \$355,925.80 including a base bid amount of \$318,049.55 and an additive alternate bid of \$37,876.25. The other bid received was from Pavecon Ltd. Co. DBA Pavecon of Grand Prairie, TX in the amount of \$643,759.00 including a base bid amount of \$590,368.54 and an additive alternate bid of \$53,390.46. Based on the bids received, we recommend award to the low bidder, Gulf South Construction, Inc. in the amount of their total proposal (base + add alternate), \$355,925.80.

If the City concurs in our recommendation, let us know how the contract is to be awarded, i.e. base only or base plus add. alternate and we'll prepare the Notice of Award.

If you have any questions regarding this information, give me a call.

Sincerely,
NEEL-SCHAFFER, INC.



Doug Wimberly, PS, PE
Vice President

Encl.

CITY OF HATTIESBURG
Hardy Street & Concart Street Drainage & Sidewalk Improvements

				Gulf South Construction P O Box 16105 Hattiesburg, MS 39404		Pavecon 3022 Ray Orr Blvd Grand Prairie, TX 75050	
Pay Item	Pay Item Description	Unit	Estimated Quantity	Unit Price	Item Total	Unit Price	Item Total
202-B	Removal of Pavement, All Types and Depths	SY	1015	\$4.00	\$4,060.00	\$13.23	\$13,428.45
202-B	Removal of Concrete Sidewalk	SY	261	\$5.00	\$1,305.00	\$9.36	\$2,442.96
202-B	Removal of Curb &/or Curb and Gutter, All Types	LF	285	\$7.50	\$2,137.50	\$11.70	\$3,334.50
202-B	Removal of Inlets, All Sizes	EA	4	\$550.00	\$2,200.00	\$4,682.00	\$18,728.00
202-B	Removal of Pipe, 8" And Above	LF	24	\$10.00	\$240.00	\$45.65	\$1,095.60
202-B	Removal of Traffic Stripe, All Types	LF	160	\$7.20	\$1,152.00	\$7.02	\$1,123.20
211-B	Topsoil for Slope Treatment, Contractor Furnished	CY	9	\$20.00	\$180.00	\$46.82	\$421.38
211-C	Topsoil for Plant Holes, Contractor Furnished	CY	32	\$68.50	\$2,192.00	\$40.97	\$1,311.04
216-B	Solid Sodding, Centipede	SY	165	\$6.55	\$1,080.75	\$5.27	\$869.55
219-A	Watering	KGAL	30	\$20.00	\$600.00	\$20.00	\$600.00
230-A	Shrub Planting, Daylily	EA	250	\$9.00	\$2,250.00	\$11.70	\$2,925.00
230-A	Shrub Planting, Parsons Juniper	EA	170	\$9.00	\$1,530.00	\$10.53	\$1,790.10
230-A	Shrub Planting, Drift Rose, "Peach"	EA	90	\$30.00	\$2,700.00	\$17.56	\$1,580.40
230-B	Tree Planting, Live Oak	EA	6	\$131.75	\$790.50	\$409.65	\$2,457.90
230-B	Tree Planting, "Slender Silhouette" Sweetgum	EA	8	\$131.75	\$1,054.00	\$228.23	\$1,825.84
230-B	Tree Planting, Crape Myrtle, "Tonto"	EA	12	\$131.75	\$1,581.00	\$239.94	\$2,879.28
230-D	Bed Preparation	SF	2650	\$0.80	\$2,280.00	\$2.28	\$6,498.00
232-A	Fertilizer for Woody Plant Material, Tablet, 21 G	K	1	\$250.00	\$250.00	\$29.26	\$29.26
233-A	Tree Bark Mulch, Type III	CY	22	\$30.00	\$660.00	\$30.43	\$669.46
233-A	Tree Bark Mulch, Type V	CY	50	\$60.00	\$3,000.00	\$25.02	\$1,251.00
907-258-PP	Herbicide Treatment, Per Plans	SF	2650	\$0.15	\$427.50	\$1.11	\$3,163.50
234-A	Temporary Silt Fence	LF	570	\$3.50	\$1,995.00	\$3.86	\$2,200.20
237-A	Wattles, 12"	LF	130	\$8.00	\$1,040.00	\$6.48	\$842.40
907-242-PP	Construction of Raised Crosswalk, Per Plans	LS	1	\$15,550.00	\$15,550.00	\$13,480.00	\$13,480.00
246-A	Sandbags	EA	25	\$15.00	\$375.00	\$7.19	\$179.75
304-G	Size 610 Crushed Stone Base, AEA	CY	35	\$110.00	\$3,850.00	\$126.41	\$4,424.35
403-A	12.5-mm, MT, Asphalt Pavement	TON	8	\$360.00	\$2,880.00	\$246.46	\$1,987.84
403-A	9.5-mm, MT, Asphalt Pavement	TON	5	\$360.00	\$1,800.00	\$361.51	\$1,807.55
601-B	Class "B" Structural Concrete, Minor Structures	CY	38	\$1,340.00	\$50,920.00	\$2,900.25	\$110,209.50
602-A	Reinforcing Steel	LBS	2800	\$3.60	\$10,080.00	\$1.76	\$4,928.00
603-CA	18" Reinforced Concrete Pipe, Class III, Rubber Type Gaskets	LF	158	\$45.00	\$7,110.00	\$46.23	\$7,304.34
603-CA	24" Reinforced Concrete Pipe, Class II, Rubber Type Gaskets	LF	180	\$55.00	\$9,900.00	\$57.94	\$10,429.20
603-CE	22"X13" Concrete Arch Pipe, Class III A, Flexible Type Gaskets	LF	22	\$52.00	\$1,144.00	\$53.84	\$1,184.48
604-A	Castings	LBS	1286	\$3.50	\$4,501.00	\$6.44	\$8,281.84
604-B	Gratings	LBS	482	\$4.00	\$1,928.00	\$6.44	\$3,104.08
907-607-PP	Steel Fence and Post, Per Plans	LF	240	\$63.00	\$15,120.00	\$140.45	\$33,708.00
608-A	Concrete Sidewalk, Without Reinforcement	SY	1004	\$72.00	\$72,288.00	\$95.51	\$95,892.04
608-B	Concrete Sidewalk, With Reinforcement	SY	20	\$80.00	\$1,600.00	\$95.35	\$1,907.00
907-608-E	Asphalt Pavement Texturing	SF	600	\$7.50	\$4,500.00	\$8.78	\$5,268.00
609-B	Concrete Curb, Header	LF	175	\$30.00	\$5,250.00	\$53.57	\$9,374.75
609-D	Combination Concrete Curb and Gutter Type 1 Modified	LF	434	\$27.50	\$11,935.00	\$39.00	\$16,926.00
614-B	Concrete Driveway, With Reinforcement, 6 Inch Thickness	SY	17	\$95.00	\$1,615.00	\$97.25	\$1,653.25
618-A	Maintenance of Traffic	LS	1	\$24,000.00	\$24,000.00	\$14,045.00	\$14,045.00
618-B	Additional Construction Signs	SF	1	\$10.00	\$10.00	\$10.00	\$10.00
620-A	Mobilization	LS	1	\$3,400.00	\$3,400.00	\$149,415.60	\$149,415.60
626-G	Thermoplastic Detail Stripe, White	LF	45	\$6.00	\$270.00	\$5.85	\$263.25
626-H	Thermoplastic Legend Stripe, White, 6" Equivalent	LF	620	\$7.20	\$4,464.00	\$8.19	\$5,077.80
626-H	Thermoplastic Legend Stripe, White	SF	11	\$91.00	\$1,001.00	\$87.78	\$965.58
628-E	6" Cold Plastic Detail Stripe, White	LF	105	\$12.00	\$1,260.00	\$11.70	\$1,228.50
628-E	6" Cold Plastic Detail Stripe, Yellow	LF	35	\$12.00	\$420.00	\$11.70	\$409.50
630-A	Standard Roadside Signs, Sheet Aluminum, 0.080" Thickness	SF	18	\$50.00	\$900.00	\$11.55	\$207.90
630-C	Steel U-Section Posts, 3.0 to 3.5 lb/ft	LF	28	\$11.10	\$310.80	\$8.48	\$237.44
647-PP	Electric Pullbox, Per Plans	EA	2	\$675.00	\$1,350.00	\$658.36	\$1,316.72
668-B	Traffic Signal Conduit, Underground Drilled or Jacked, Rolled Pipe, 2"	LF	270	\$19.50	\$5,265.00	\$19.02	\$5,135.40
682-A	Underground Branch Circuit, 1" Conduit	LF	475	\$7.90	\$3,752.50	\$7.72	\$3,667.00
682-B	Underground Branch Circuit, Jack Or Bored, 1" Conduit	LF	40	\$19.50	\$780.00	\$19.02	\$760.80
682-D	Pull Box, Flush Mounted	EA	11	\$165.00	\$1,815.00	\$160.93	\$1,770.23
699-A	Roadway Construction Stakes	LS	1	\$12,000.00	\$12,000.00	\$2,340.83	\$2,340.83
Total Base Bid =					\$318,049.55	#1	\$580,368.54

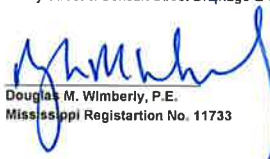
Additive Alternate No. 1

Pay Item	Pay Item Description	Unit	Estimated Quantity	Unit Price	Item Total	Unit Price	Item Total
682-A	Underground Branch Circuit Awg 10, 3 Conductor	LF	515	\$3.75	\$1,931.25	\$3.66	\$1,884.90
907-683-PP	Lighting Assembly, Low Mast, Type 16-1.0-52, Per Plans	EA	11	\$2,595.00	\$28,545.00	\$4,024.76	\$44,272.36
682-F	Secondary Power Controller	EA	1	\$7,400.00	\$7,400.00	\$7,233.20	\$7,233.20
Total Additive Alternate No. 1 Bid =					\$37,876.25		\$53,390.46

Total Base Bid + Additive Alternate No. 1 Bid =					\$355,925.80		\$643,759.00
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#1 - Incorrect Total Base Bid - Bid proposal reflected \$348,649.55

I certify this to be a true & accurate Bid Tabulation of bids received @ 2:00p.m., Thursday, July 23rd, 2020 for the City of Hattiesburg - Hardy Street & Concart Street Drainage & Sidewalk Improvements Project.


Douglas M. Wimberly, P.E.
Mississippi Registration No. 11733





Memorandum

To: Mayor Toby Barker and Members of City Council

From: Lamar Rutland

cc:

Date: Tuesday, August 4, 2020

Re: Acknowledge bids received July 23, 2020 for the Water Improvements Along Lincoln Road Project and accept the bid from C. B. Developers, Inc. in the amount of \$253,448.00; Authorize Mayor to execute contracts upon preparation.
File Number: 2020-517
Minute Book #
Funding Account 075695.7245.30

Summary

Acknowledge bids received July 23, 2020 for the Water Improvements Along Lincoln Road Project and accept the bid from C. B. Developers, Inc. in the amount of \$253,448.00; Authorize Mayor to execute contracts upon preparation.

Recommendation Statement

I recommend approval of this item.

Please place this on the August 4, 2020 City Council meeting for consideration.



Engineering Progress

July 27, 2020

City of Hattiesburg
P.O. Box 1898
Hattiesburg, MS 39403-1898

Attn: Lamar Rutland, P.E.

RE: Water Improvements along Lincoln Rd
City of Hattiesburg, MS

Dear Lamar:

I have certified the enclosed bid tabulation that represents all bids that were received and opened at 10:00 a.m. on July 23, 2020 for the above referenced project.

I am recommending C.B. Developers, Inc. of Hattiesburg, MS in the bid amount of Two Hundred Fifty-Three Thousand, Four Hundred and Forty-Eight Dollars and Zero Cents (\$253,448.00).

Enclosed is a copy of the original bid from C.B. Developers, Inc. and original bids from all other bidders.

Should you have any questions and/or comments, please, do not hesitate to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Shea E. McNease'.

Shea E. McNease, P.E.
Project Engineer

/md

BID TAB				July 23, 2020		C.B. Developers, Inc.		DNA Underground, LLC		Myers Underground Utilities		Hudson Contracting, Inc.		Miller Enterprises, LLC	
Project: Water Improvements along Lincoln Road						1716 Evelyn Gandy Pkwy, STE B		16101 S Swan Road		408 Ryan Road		P.O. Box 30		136 Wilson Road	
Project No. 11248W						Hattiesburg, MS 39401		Gulfport, MS 39503		Hattiesburg, MS 39401		Waynesboro, MS 39367		Hattiesburg, MS 39402	
BASE BID															
Item No.	Item Description	Quantity	Unit	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
Water Pipe Items															
1	8" Class 350 Ductile Iron Water Pipe (Open Cut)	90	Lin. Ft.	\$36.00	\$3,240.00	\$35.00	\$3,150.00	\$43.00	\$3,870.00	\$58.00	\$5,220.00	\$52.60	\$4,734.00		
2	12" Class 350 Ductile Iron Water Pipe (Open Cut)	1,720	Lin. Ft.	\$50.00	\$86,000.00	\$42.00	\$72,240.00	\$55.35	\$95,202.00	\$60.00	\$103,200.00	\$51.50	\$88,580.00		
3	12" Class 350 Ductile Iron Water Pipe (Bored)	70	Lin. Ft.	\$107.00	\$7,490.00	\$155.00	\$10,850.00	\$89.00	\$6,230.00	\$138.00	\$9,660.00	\$190.50	\$13,335.00		
4	10" 200 PSI, DR11, HDPE (Open Cut) (Incl. Adapter Fittings)	100	Lin. Ft.	\$49.00	\$4,900.00	\$128.00	\$12,800.00	\$104.75	\$10,475.00	\$55.00	\$5,500.00	\$123.75	\$12,375.00		
5	16" 200 PSI, DR11, HDPE (Open Cut) (Incl. Adapter Fittings)	200	Lin. Ft.	\$121.00	\$24,200.00	\$225.00	\$45,000.00	\$187.30	\$37,460.00	\$110.00	\$22,000.00	\$192.70	\$38,540.00		
6	16" 200 PSI, DR11, HDPE (Directional Bore) (Incl. Adapter Fittings)	160	Lin. Ft.	\$82.00	\$13,120.00	\$216.00	\$34,560.00	\$178.50	\$28,560.00	\$258.00	\$41,280.00	\$183.65	\$29,384.00		
7	12" Steel Casing (0.25" WT) (Bored)	80	Lin. Ft.	\$80.00	\$6,400.00	\$177.00	\$14,160.00	\$158.60	\$12,688.00	\$200.00	\$16,000.00	\$156.35	\$12,508.00		
8	24" Steel Casing (0.25" WT) (Bored)	160	Lin. Ft.	\$158.00	\$25,280.00	\$300.00	\$48,000.00	\$232.00	\$37,120.00	\$335.00	\$53,600.00	\$292.25	\$46,760.00		
9	Tracer Wire System for Water	1	LS	\$4,800.00	\$4,800.00	\$1,500.00	\$1,500.00	\$3,500.00	\$3,500.00	\$4,500.00	\$4,500.00	\$4,000.00	\$4,000.00		
Water Connection Items															
10	Connection: Proposed 8" to Proposed 12" (Tee & other Fittings)	1	Each	\$2,200.00	\$2,200.00	\$1,150.00	\$1,150.00	\$4,940.00	\$4,940.00	\$2,450.00	\$2,450.00	\$1,620.00	\$1,620.00		
11	Connection: Proposed 12" to Existing 12" (Various Fittings)	2	Each	\$1,900.00	\$3,800.00	\$920.00	\$1,840.00	\$5,040.00	\$10,080.00	\$2,100.00	\$4,200.00	\$2,275.00	\$4,550.00		
12	Connection: Proposed 12" to Proposed 12" (Tee & other Fittings)	1	Each	\$2,500.00	\$2,500.00	\$1,350.00	\$1,350.00	\$6,330.00	\$6,330.00	\$2,875.00	\$2,875.00	\$2,700.00	\$2,700.00		
Water Valve Items															
13	8" Gate Valve	2	Each	\$1,400.00	\$2,800.00	\$1,300.00	\$2,600.00	\$1,335.00	\$2,670.00	\$1,395.00	\$2,790.00	\$1,400.00	\$2,800.00		
14	12" Gate Valve	6	Each	\$2,400.00	\$14,400.00	\$2,250.00	\$13,500.00	\$2,522.00	\$15,132.00	\$2,535.00	\$15,210.00	\$2,295.00	\$13,770.00		
Water Fire Protection Items															
15	3 Way Fire Hydrant w/ Appurtenances (Incl. Tee, Valve, Hydrant, Brass Tag, Pipe, & other fittings)	3	Each	\$4,500.00	\$13,500.00	\$3,550.00	\$10,650.00	\$3,675.00	\$11,025.00	\$4,115.00	\$12,345.00	\$4,925.00	\$14,775.00		
Miscellaneous Construction Items															
16	Crushed Aggregate (Size 610)	3	Ton	\$89.00	\$267.00	\$65.00	\$195.00	\$190.00	\$570.00	\$100.00	\$300.00	\$59.75	\$179.25		
17	Select Fill Material (Class 9, Group C), LVM	11	CY	\$41.00	\$451.00	\$13.00	\$143.00	\$24.00	\$264.00	\$20.00	\$220.00	\$12.05	\$132.55		
18	Clearing and Grubbing	1	Acre	\$600.00	\$600.00	\$1,300.00	\$1,300.00	\$1,920.00	\$1,920.00	\$500.00	\$500.00	\$2,225.00	\$2,225.00		
19	Temporary Erosion Control	1	LS	\$3,600.00	\$3,600.00	\$9,250.00	\$9,250.00	\$3,860.00	\$3,860.00	\$2,500.00	\$2,500.00	\$2,940.00	\$2,940.00		
20	Maintenance of Traffic	1	LS	\$8,900.00	\$8,900.00	\$6,500.00	\$6,500.00	\$3,333.00	\$3,333.00	\$3,500.00	\$3,500.00	\$3,525.00	\$3,525.00		
21	Mobilization	1	LS	\$25,000.00	\$25,000.00	\$15,000.00	\$15,000.00	\$15,100.00	\$15,100.00	\$12,000.00	\$12,000.00	\$23,500.00	\$23,500.00		
Bid Total:				\$253,448.00		\$305,738.00		\$310,329.00		\$319,850.00		\$322,932.80			

This is to certify that I have checked the tabulation of the bids received by the City of Hattiesburg on July 23rd, 2020, and that said tabulation is true and correct to the best of my belief.

Shea E. McNease, P.E.

Comments:



Memorandum

To: Mayor Toby Barker and Members of City Council

From: Lamar Rutland

cc:

Date: Tuesday, August 4, 2020

Re: Acknowledge bids received July 9, 2020 for the C.E. Roy Pathway Project and accept the bid from Gulf South Construction in the amount of \$178,118.73 for the Base Bid and Additive Alternate No. 1; Authorize Mayor to execute contracts upon preparation.
File Number: 2020-507
Minute Book #

Summary

Acknowledge bids received July 9, 2020 for the C.E. Roy Pathway Project and accept the bid from Gulf South Construction in the amount of \$178,118.73 for the Base Bid and Additive Alternate No. 1; Authorize Mayor to execute contracts upon preparation.

Recommendation Statement

I recommend approval of this item.

Please place this on the August 4, 2020 City Council meeting for consideration.

C.E. ROY PATHWAY
CITY OF HATTIESBURG, MISSISSIPPI

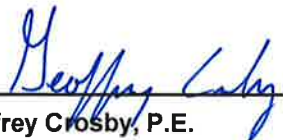
				Gulf South Construction P O Box 16105 Hattiesburg, MS 39404		Simmons Erosion Control P O Box 206 Lake, MS 39092		Pavecon 6677 I-55 South Byrum, MS 39272	
Pay Item	Description	Qty	Unit	Unit Price	Price Extension	Unit Price	Price Extension	Unit Price	Price Extension
202-B	REMOVAL OF PAVEMENT, ALL TYPES, ALL DEPTHS	50	SQ. YD.	\$17.90	\$895.00	\$29.00	\$1,450.00	\$21.13	\$1,056.50
202-B	REMOVAL OF CONCRETE CURB	40	LIN. FT.	\$15.30	\$612.00	\$22.50	\$900.00	\$5.05	\$202.00
203-EX	BORROW EXCAVATION, FM, CLASS B9, AH	250	CU. YD.	\$12.90	\$3,225.00	\$32.50	\$8,125.00	\$75.00	\$18,750.00
203-G	EXCESS EXCAVATION, FM, AH	150	CU. YD.	\$11.60	\$1,740.00	\$30.00	\$4,500.00	\$80.00	\$12,000.00
211-A	TOPSOIL FROM RIGHT-OF-WAY	600	SQ. YD.	\$13.80	\$8,280.00	\$6.00	\$3,600.00	\$21.96	\$13,176.00
216-B	SOLID SODDING, CENTIPEDE	1200	SQ. YD.	\$4.70	\$5,640.00	\$5.00	\$6,000.00	\$4.64	\$5,568.00
234-A	TEMPORARY SILT FENCE	1000	LIN. FT.	\$4.65	\$4,650.00	\$3.00	\$3,000.00	\$4.55	\$4,550.00
237-A	WATTLES, 12"	100	LIN. FT.	\$6.60	\$660.00	\$5.00	\$500.00	\$7.42	\$742.00
246-A	SANDBAGS	100	EACH	\$14.45	\$1,445.00	\$5.00	\$500.00	\$5.99	\$599.00
603-CE	29" x 18" REINFORCED CONCRETE ARCH PIPE, CLASS III	8	LIN. FT.	\$99.95	\$799.60	\$125.00	\$1,000.00	\$118.50	\$948.00
603-CF	29" x 18" REINFORCED CONCRETE ARCH PIPE - FLARED END SECTIONS	2	EACH	\$1,101.00	\$2,202.00	\$1,100.00	\$2,200.00	\$764.74	\$1,529.48
608-A	CONCRETE SIDEWALK, WITHOUT REINFORCEMENT, 5" THICKNESS	1100	SQ. YD.	\$62.50	\$68,750.00	\$65.00	\$71,500.00	\$72.51	\$79,761.00
609-B	CONCRETE CURB HEADER	65	LIN. FT.	\$35.05	\$2,278.25	\$30.00	\$1,950.00	\$57.42	\$3,732.30
618-A	MAINTENANCE OF TRAFFIC	1	LUMP SUM	\$16,862.00	\$16,862.00	\$15,000.00	\$15,000.00	\$4,008.00	\$4,008.00
620-A	MOBILIZATION	1	LUMP SUM	\$17,640.00	\$17,640.00	\$20,000.00	\$20,000.00	\$12,253.00	\$12,253.00
626-H	THERMOPLASTIC LEGEND, WHITE, XING, 8" HEIGHT	2	EACH	\$1,039.00	\$2,078.00	\$1,050.00	\$2,100.00	\$413.50	\$827.00
626-H	THERMOPLASTIC LEGEND, WHITE, BIKE SYMBOL, 8" HEIGHT	2	EACH	\$1,039.00	\$2,078.00	\$1,050.00	\$2,100.00	\$362.65	\$725.30
626-H	THERMOPLASTIC LEGEND, WHITE, 6" EQUIVALENT	460	LIN. FT.	\$6.90	\$3,174.00	\$6.75	\$3,105.00	\$5.57	\$2,562.20
628-F	COLD PASTIC LEGEND, WHITE, ROAD, 4' HEIGHT	2	EACH	\$1,297.00	\$2,594.00	\$1,230.00	\$2,460.00	\$104.05	\$208.10
628-F	COLD PLASTIC LEGEND, WHITE, XING, 4' HEIGHT	2	EACH	\$1,297.00	\$2,594.00	\$1,230.00	\$2,460.00	\$104.05	\$208.10
628-F	COLD PLASTIC LEGEND, WHITE, 6" EQUIVALENT	240	LIN. FT.	\$11.50	\$2,760.00	\$11.10	\$2,664.00	\$2.21	\$530.40
630-A	STANDARD ROADSIDE SIGNS, SHEET ALUMINUM, 0.080" THICKNESS	113	SQ. FT.	\$49.85	\$5,633.05	\$37.00	\$4,181.00	\$31.22	\$3,527.86
630-C	STEEL U-SECTION POSTS, 3.0 TO 3.5 LB/FT	238	LIN. FT.	\$11.00	\$2,618.00	\$14.75	\$3,510.50	\$6.38	\$1,518.44
TOTAL BASE BID					\$159,207.90		\$162,805.50		\$168,982.68

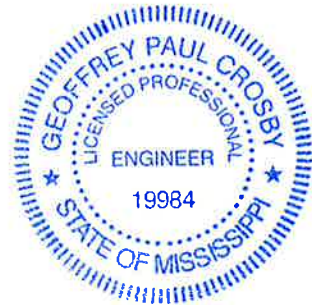
ADDITIVE ALTERNATE #1

Pay Item	Description	Unit	Qty	Unit Price	Price Extension	Unit Price	Price Extension	Unit Price	Price Extension
211-C	TOPSOIL FOR PLANT HOLES, CONTRACTOR FURNISHED	CY	25	\$67.80	\$1,695.00	\$58.00	\$1,450.00	\$50.00	\$1,250.00
219-A	WATERING	KGAL	50	\$20.00	\$1,000.00	\$20.00	\$1,000.00	\$20.00	\$1,000.00
230-A	SHRUB PLANTING, PARSONS JUNIPER	EACH	75	\$10.10	\$757.50	\$15.75	\$1,181.25	\$15.00	\$1,125.00
230-A	SHRUB PLANTING, LOROPETALUM 'PURPLE DIAMOND'	EACH	46	\$31.45	\$1,446.70	\$44.50	\$2,047.00	\$17.00	\$782.00
230-A	SHRUB PLANTING, GLOSSY ABELIA 'KALEIDOSCOPE	EACH	25	\$23.75	\$593.75	\$44.50	\$1,112.50	\$20.00	\$500.00
230-B	TREE PLANTING, TEDDY BEAR MAGNOLIA	EACH	38	\$148.35	\$5,637.30	\$320.00	\$12,160.00	\$150.00	\$5,700.00
230-B	TREE PLANTING, NELLIE R STEVENS HOLLY	EACH	20	\$166.15	\$3,323.00	\$235.00	\$4,700.00	\$100.00	\$2,000.00
230-B	TREE PLANTING, CRAPE MYRTLE 'MUSKOGEE'	EACH	12	\$136.45	\$1,637.40	\$213.00	\$2,556.00	\$200.00	\$2,400.00
230-D	BED PREPARATION	SQ. FT.	1820	\$0.60	\$1,092.00	\$2.75	\$5,005.00	\$3.10	\$5,642.00
232-A	FERTILIZER FOR WOODY PLANT MATERIAL, TABLET, 21 GRAM	K	0.50	\$415.35	\$207.68	\$103.25	\$51.63	\$62.00	\$31.00
233-A	TREE BARK MULCH, TYPE III	CU. YD.	20	\$23.75	\$475.00	\$67.00	\$1,340.00	\$39.00	\$780.00
233-A	TREE BARK MULCH, TYPE V	CU. YD.	30	\$25.75	\$772.50	\$67.00	\$2,010.00	\$30.00	\$900.00
907-258-PP	HERBICIDE TREATMENT, PER PLANS	SQ. FT.	1820	\$0.15	\$273.00	\$2.00	\$3,640.00	\$2.00	\$3,640.00
ADDITIVE ALTERNATE #1 TOTAL					\$18,910.83	#2	\$38,253.38		\$25,750.00

#1 Incorrect Extension - Bid Proposal reflected \$757.50 #2 Incorrect Total Add Alt #1 - Bid Proposal reflected \$18,895.83

**I hereby certify this to be a true and accurate Bid Tabulation of bids received at 10:00A.M., local time, Thursday, July 9, 2020
for the C.E. Roy Pathway Project - City of Hattiesburg, Forrest County Mississippi**


Geoffrey Crosby, P.E.
Mississippi Registration No. 19984



July 16, 2020
N-S Project No. 8667.018.31

Toby Barker
Mayor
City of Hattiesburg
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898

REFERENCE: C.E. ROY PATHWAY
HATTIESBURG, MISSISSIPPI

Dear Mayor Barker:

Enclosed for your records is one (1) copy of the Certified Bid Tabulation for the bids received for the referenced project. As you are aware, there were three (3) bids submitted, opened, and read at the bid opening on July 9th, 2020, at 10:00 am. Upon review and tabulation of the bid received and opened, the base bid submitted by Gulf South Construction in the amount of \$159,207.90 was determined to be the apparent low bidder. It is our understanding that the City of Hattiesburg would like to award both the Base Bid and the Additive Alternate No. 1. Similarly, the lowest bid using the combination of the Base Bid (\$159,207.90) and Additive Alternate No. 1 (\$18,910.83) in the amount of \$178,118.73 was also received by Gulf South Construction.

Neel-Schaffer therefore recommends that the City of Hattiesburg review the bid submitted by Gulf South Construction, and award the project, to the lowest and best bidder.

Sincerely,

NEEL-SCHAFFER, INC.



Geoffrey Crosby, P.E.
Senior Project Manager

Enclosures



Memorandum

To: Mayor Toby Barker and Members of City Council

From: Lamar Rutland

cc:

Date: Tuesday, August 4, 2020

Re: Acknowledge bids received July 23, 2020 for the Vehicular Wayfinding and Parking Signage Project and accept the bid from RJM McQueen Contracting, Inc. in the amount of \$69,097.74; Authorize Mayor to execute contracts upon preparation.
File Number: 2020-523
Minute Book #

Summary

Acknowledge bids received July 23, 2020 for the Vehicular Wayfinding and Parking Signage Project and accept the bid from RJM McQueen Contracting, Inc. in the amount of \$69,097.74; Authorize Mayor to execute contracts upon preparation.

Recommendation Statement

I recommend approval of this item.

Please place this on the August 4, 2020 City Council meeting for consideration.

engineers
planners
surveyors
environmental
scientists
landscape
architects

July 27, 2020
N-S Project No. 15561.000

Lamar Rutland, P.E.
Director of Engineering
City of Hattiesburg
P.O. Box 1898
Hattiesburg, Mississippi 39403

REFERENCE: Vehicular Wayfinding and Parking Signage

Dear Mr. Rutland:

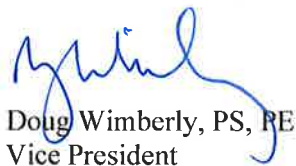
Please find enclosed the Certified Bid Tabulation of the bids received for the referenced project which were opened and read aloud at the bid opening on July 23, 2020. Of the three (3) bids received, RJM McQueen Contracting, Inc. (RJM), of Collins, MS submitted the lowest bid in the amount of \$69,097.74. The other two bids received were from Hudson Contracting, Inc., of Waynesboro, MS in the amount of \$126,160.00 and from Pavecon Ltd. Co. DBA Pavecon of Grand Prairie, TX in the amount of \$126,636.00.

RJM was not listed as a plan holder ahead of receiving their bid. We consider this a minor irregularity which may be waived by the Owner per the Advertisement for Bids. We recommend that the City review the bids submitted, and should it agree and subject to the approval of its legal counsel, waive the irregularity as minor and award to RJM.

If the City concurs in our recommendation, let us know and we'll prepare the Notice of Award.

If you have any questions regarding this information, give me a call.

Sincerely,
NEEL-SCHAFFER, INC.


Doug Wimberly, PS, PE
Vice President

Encl.

CITY OF HATTIESBURG
Wayfinding & Parking Signage - Downtown Hattiesburg

Pay Item	Pay Item Description	Unit	Estimated Quantity	RJM McQueen		Hudson Contracting, Inc.		Pavecon, Ltd.	
				Unit Price	Item Total	Unit Price	Item Total	Unit Price	Item Total
618-A	MAINTENANCE OF TRAFFIC	LS	1	\$1,200.00	\$1,200.00	\$3,300.00	\$3,300.00	\$2,500.00	\$2,500.00
620-A	MOBILIZATION	LS	1	\$20,600.00	\$20,600.00	\$12,000.00	\$12,000.00	\$8,737.50	\$8,737.50
907-242-PP001	CONSTRUCTION OF POST CAP, 3" DIA., PER PLANS	EA	24	\$54.34	\$1,304.16	\$65.00	\$1,560.00	\$111.20	\$2,668.80
907-242-PP001	CONSTRUCTION OF LARGE POST, ROUND, PAINTED BLACK, PER PLANS	EA	8	\$512.40	\$4,099.20	\$1,000.00	\$8,000.00	\$1,876.70	\$15,013.60
907-242-PP001	CONSTRUCTION OF SMALL POST, ROUND, PAINTED BLACK, PER PLANS	EA	8	\$483.00	\$3,864.00	\$950.00	\$7,600.00	\$1,780.35	\$14,242.80
907-242-PP001	CONSTRUCTION OF PARKING SIGNS, INC. POLE, BLUE PARKING SIGN, TOP EMBLEM, PER PLANS	EA	8	\$630.00	\$5,040.00	\$1,250.00	\$10,000.00	\$2,569.80	\$20,558.40
907-242-PP001	CONSTRUCTION OF 3" DIA. STEEL MOUNTING BRACKETS, PAINTED BLACK, POST TO FRAME, PER PLANS	EA	48	\$76.65	\$3,679.20	\$190.00	\$9,120.00	\$118.60	\$5,692.80
907-242-PP001	CONSTRUCTION OF 6.5" DIA. STEEL MOUNTING BRACKETS, PAINTED BLACK, EXISTING POST TO FRAME, PER PLANS	EA	39	\$117.60	\$4,586.40	\$265.00	\$10,335.00	\$137.20	\$5,350.80
907-242-PP001	CONSTRUCTION OF BELOW GRADE POSTS, ROUND, PAINTED BLACK, PER PLANS	EA	24	\$164.85	\$3,956.40	\$950.00	\$22,800.00	\$504.10	\$12,098.40
907-242-PP001	CONSTRUCTION OF LARGE 1/2" STEEL FRAME, DECORATIVE CUT, INC. 1/8" BRUSHED ALUMINUM BACKING, PER PLANS	EA	17	\$484.31	\$8,233.27	\$925.00	\$15,725.00	\$966.20	\$16,425.40
907-242-PP001	CONSTRUCTION OF SMALL 1/2" STEEL FRAME, DECORATIVE CUT, INC. 1/8" BRUSHED ALUMINUM BACKING, PER PLANS	EA	12	\$399.00	\$4,788.00	\$800.00	\$9,600.00	\$852.50	\$10,230.00
907-242-PP001	CONSTRUCTION OF METAL MOUNTING STAND OFF, BLACK, PKG OF 4, PER PLANS	EA	29	\$39.69	\$1,151.01	\$115.00	\$3,335.00	\$111.20	\$3,224.80
907-242-PP001	CONSTRUCTION OF LARGE SIGN FACE WITH HIGH PERFORMANCE OVERLAMINATE, 0.080" ALUMINUM, PER PLANS	EA	17	\$270.90	\$4,605.30	\$505.00	\$8,585.00	\$359.50	\$6,111.50
907-242-PP001	CONSTRUCTION OF SMALL SIGN FACE WITH HIGH PERFORMANCE OVERLAMINATE, 0.080" ALUMINUM, PER PLANS	EA	12	\$165.90	\$1,990.80	\$350.00	\$4,200.00	\$315.10	\$3,781.20
Total Base Bid					\$69,097.74		\$126,160.00		\$126,636.00

I certify this to be a true & accurate Bid Tabulation of bids received @ 10:00a m., Thursday, July 23rd, 2020 for the City of Hattiesburg - Wayfinding & Parking Signage Project.

Douglas M. Wimberly
Douglas M. Wimberly, P.E.
Mississippi Registration No. 11733





Memorandum

To: Mayor Toby Barker and Members of City Council

From: Lamar Rutland

cc:

Date: Tuesday, August 4, 2020

Re: Authorize submission of a grant application to the National Endowment for the Arts (NEA) Grants for Arts Projects Program for funding to support the creation and installation of an outdoor sculpture, for a total project cost of \$200,000 (\$50,000 federal share and \$150,000 local share).
File Number: 2020-493
Minute Book #

Summary

NEA 2020 Grants for Arts Projects

Recommendation Statement

I recommend authorization of the submission of a grant application to the National Endowment for the Arts (NEA) Grants for Arts Projects Program for funding to support the creation and installation of an outdoor sculpture, for a total project cost of \$200,000 (\$50,000 federal share and \$150,000 local share).

Please place this on the August 4, 2020 City Council meeting for consideration.

Applicant Information

Tracking Number: GRANT13151440

Application #: 1884115

Date: 07-21-2020 15:38 PM

Application Information

Category Grants for Arts Projects
Name City of Hattiesburg

Organization Information

NEA Discipline for Proposed Project

Visual Arts

Legal/IRS Name (per your IRS Determination Letter) *

City of Hattiesburg

Popular Name (if different)

Briefly summarize the mission of your organization. *

Our vision is for Hattiesburg to become a premier city in the Gulf South. In economic growth, education, health care, culture, entrepreneurship, tourism and especially customer service, our aim is to be the best. We will consistently strive to be bold in our vision and meet and surpass a high standard of excellence in city services.

Briefly summarize the background/history of your organization:

The City of Hattiesburg was established in 1884 and has 46,251 residents across its 54 square miles. The city is currently led by Mayor Toby Barker. In 1985, the City of Hattiesburg elected its first official under the Mayor/Council form of government. The City Council is the legislative authority of the municipality and is charged with adopting laws and setting policy for the City as a whole. The City is made up of Administration, City Clerk/Tax Division, Municipal Court, Police Department, Fire Department, Parks & Recreation, Water & Sewer, Public Works, Urban Development, and Engineering.

Organization Budget

	Most Recently Completed FY	Previous FY	Two FYs Prior
FY End Date (MM/DD/YYYY)	9/30/2019	9/30/2018	9/30/2017
Income:			
Earned	\$0	\$0	\$0
Contributed	\$761,633	\$720,592	\$767,714
<u>Total Income</u>	\$761,633	\$720,592	\$767,714
Expenses:			
Artistic Salaries	\$0	\$0	\$0
Production / Exhibition / Service	\$0	0.00	\$0
Administrative Expenses	\$761,633	\$720,592	\$767,714
<u>Total Expenses</u>	\$761,633	\$720,592	\$767,714
Operating Surplus and Deficit	\$0	\$0	\$0

In the space below, discuss the fiscal health of your organization. In addition, you must explain: 1) any changes of 15% or more in either your income or expenses from one year to the next, and 2) plans for reducing any deficit (include the factors that contributed to the deficit and its amount). *

FY 2019 ended with stable sales and property tax revenues. Property tax revenue increased 5.75% over the prior year. Sales tax revenue increased 4%. Part of the sales tax increase is due to a new 1% motel/restaurant tax, in effect for 3 years, to be used to improve city recreation and university athletic facilities. The General Fund's ending balance increased 17% from FY 2018, due in part to various structural changes (streamlining job duties and elimination of positions as employees resigned/retired) and reclassification of funds held from prior fiscal year, pending distribution to various state agencies and city revenue accounts.

A diverse economic base continues to minimize the cyclical economy's impact. FY 2019 saw notable increases in residential and commercial building permits issued. Industrial, medical, and educational facilities represent the largest employers and have the largest tax base. The list of those entities has remained virtually unchanged for a number of years.

Programmatic Activities

Year 1 *

2017

Representative Examples Year 1 *

Since 2016, the City of Hattiesburg and Hattiesburg Alliance for Public Art (HAPA) have collaborated yearly in HAPA's outdoor sculpture competition and exhibits. The City provides site preparation and installation, while HAPA coordinates the competition/selection process. Examples are presented from the yearly sculpture exhibits. In October of 2017, Mayor Toby Barker enlisted the help of Betsy Mercier to paint City Hall's fire hydrant in a way to honor those who have battled breast cancer. The fire hydrant quickly morphed into a way to engage Hattiesburg residents through public art. Each month, the City Hall fire hydrant reveals a different presentation of art on social media.

Sculpture exhibits:

Andrew Light's "Anomis Exquisite"

Ryan Lamfer's "Emergence"

Ray Katz's "Stargazer"

Stacey Rathert's "Which Way Home"

Kevin Vanek's "The Screws That We Lose are the Hardest to Replace"

Fire Hydrant Art:

Oct. 2017: Breast Cancer Awareness

Nov. 2017: No Shave Nov.

Dec. 2017: Rudolph

Year 2 *

2018

Representative Examples Year 2 *

HAPA & City of Hattiesburg sculpture exhibits:

•Richard Herzog's "Movin'On"

•Clifton Cox's "Boundless Voyage"

•James Davis's "This is a Piece of Something I Had to Go Through"

•Andy Denton's "Lovearch"

•Joni Younkins-Herzog's "Laideedee"

Fire Hydrant Art:

•Jan. 2018 – In Honor of Martin Luther King

•Feb. 2018 – Mardi Gras

•Mar. 2018 – St. Patrick's Day

•Apr. 2018 – Autism Awareness

•May 2018 – Police Week

•May 2018 – Graduation

•June 2018 – FestivalSouth

•July 2018 – Stars & Stripes

•Aug. 2018 – Lil Brown Jug Game

•Sept. 2018 – Suicide Prevention

•Oct. 2018 – Breast Cancer Awareness

•Oct. 2018 – Halloween

•Nov. 2018 – Veterans Day

•Dec. 2018 – The Grinch

Year 3 *

2019

Representative Examples Year 3 *	HAPA & City of Hattiesburg sculpture exhibits: •Jason Kimes's "Positive Capability" •Glenn Zwegardt's "Earth Om" •Jacob Burmood's "Aloft" •Joe Barrington's "Wild Boar" •Phil Proctor's "Cumulon" Fire Hydrant Art: •Jan. 2019 – In Memory of the 2017 Tornado Victims •Feb. 2019 – In Honor of Ensign Jesse Brown •Mar. 2019 – In Honor of Evelyn Gandy •Apr. 2019 – Downtown Crawfish Jam •May 2019 – Bike to Work •June 2019 – 75th Anniversary of D-Day •July 2019 – 50th Anniversary of Apollo 11/Man on the Moon •Aug. 2019 – Back to School in the Burg •Sept. 2019 – 9/11 Memorial •Oct. 2019 – Breast Cancer Awareness •Nov. 2019 – 50th Anniversary of Sesame Street •Dec. 2019 – Christmas
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Project Information

NEA Discipline for Proposed Project *	Visual Arts
Project Title *	To support the installation of a sculpture celebrating Hattiesburg’s music history at the Hardy Street Roundabout
ProjectSummary *	To support the installation of a sculpture celebrating Hattiesburg’s music history at the Hardy Street Roundabout, the City of Hattiesburg and VisitHattiesburg aim to collaborate in the transformation of the Hardy Street Roundabout into a public art display where residents, arts enthusiasts, and tourists can all enjoy a beautified public space and experience inspiration and appreciation of Hattiesburg’s rich artistic and cultural history.
Project Description *	The City of Hattiesburg proposes to place a sculpture celebrating Hattiesburg’s music history in the center of what will be a newly constructed roundabout welcoming residents and visitors to the vibrant entertainment district awaiting in Downtown Hattiesburg. The sculpture will be placed on top of a fountain, with legendary Blind Roosevelt Graves and his guitar welcoming the multitudes heading east into Downtown Hattiesburg. Accompanying Blind Roosevelt Graves will be a violinist and a trumpet player—and all three will reflect different ethnicities as a nod to the diversity that defines and enriches Hattiesburg, with each facing a different direction. The period of performance will consist of the selection of the artist and the development, creation, and installation of the sculpture. The requested grant funds will be used to pay a portion of the artist fee associated with the development, creation, and installation of the sculpture. The theme for the current project arises from a desire to honor and promote Hattiesburg’s lively music history. The Mississippi Blues Trail is a collection of sites across the state that memorialize and tell the story of the people and places that played a significant role in giving birth to the blues music genre. A marker along the trail in Hattiesburg honors key player Blind Roosevelt Graves and his songs that combined sacred and secular elements. Roosevelt Graves was playing the juke joints in the Mississippi Delta with his brother Uaroy when they caught the attention of talent scout H.C. Spier. In 1936, H.C. Spier assembled what came to be known as the Mississippi Jook Band for a recording at Hotel Hattiesburg on Mobile Street in Downtown Hattiesburg. The Mississippi Jook Band consisted of Blind Roosevelt Graves (vocals and guitar), Uaroy Graves (tambourine and kazoo), and Cooney Vaughn (piano). Legend has it this recording resulted in the first music termed “rock and roll,” and why Hattiesburg, Mississippi, is regarded by some to be the birthplace of rock and roll. The sculpture is intended to provide beautification as a part of ongoing efforts to revitalize once-neglected Downtown Hattiesburg, as well as draw residents, tourists, and arts and music enthusiasts to Hattiesburg and especially to the Downtown area—to eat, stay, play and enjoy the growing number of live music venues. In adding interest and beauty for every member of society to enjoy, the sculpture will also recognize and celebrate important people and events in the city’s diverse history, and strengthen community support for and engagement with public art. Greeting residents and visitors heading into Downtown Hattiesburg, the sculpture of Blind Roosevelt Graves will preserve our city’s and state’s music history, encourage future generations in contributing to the music culture of Hattiesburg, and support the development of Downtown as an energetic entertainment district that is known throughout Mississippi as a live music destination.

Selection of Key Organizational Partners:

The City of Hattiesburg will partner with VisitHattiesburg. The City of Hattiesburg has a history of successful collaboration with VisitHattiesburg, and their expertise will prove instrumental in planning, implementing, and promoting the project.

Selection of Key Individuals: *

The City of Hattiesburg and VisitHattiesburg have partnered successfully on numerous projects. As a result, Marlo Dorsey, as the Executive Director of VisitHattiesburg, has been chosen as a key individual for this project. Her marketing expertise and assistance with commissioning the sculpture will prove invaluable to the implementation and success of the project. Other key individuals are city employees chosen based on their experience managing and implementing city projects.

Name	Description	Proposed or committed?
-------------	--------------------	-------------------------------

Name	Description	Proposed or committed?
VisitHattiesburg	VisitHattiesburg is the official destination marketing organization for Hattiesburg. VisitHattiesburg is committed to several key strategic focuses, including prioritizing placemaking and enhancing the Hattiesburg experience. Their expected role will include managing the process of commissioning the sculpture, as well as offering their marketing expertise to ensure the project is successful.	Committed
Lamar Rutland	Lamar Rutland has served as the Director of Engineering for the City of Hattiesburg since 2014, and will be the Project Director overseeing the project. Mr. Rutland is a licensed civil engineer and has 12 years of project management experience.	Committed
Ann Jones	Ann Jones has worked for the City of Hattiesburg since 1994, in many roles. In her current role of Chief Administrative Officer, she will assist with the implementation and management of the project.	Committed
Marlo Dorsey	Marlo Dorsey has served as the Executive Director of VisitHattiesburg, and played a pivotal role in Hattiesburg becoming the third most visited city in Mississippi. She will assist with the process of commissioning the sculpture and offering her marketing expertise to promote the installation of the sculpture.	Committed

Project Start Date *

6/1/2021

Project End Date *

5/31/2023

Describe the significant dates in the project *

Sculpture Timeline:

June 2021: Develop and distribute a national call for artist proposals

July 2021: Develop selection committee

Aug. 2021: Distribute artist proposals to committee members

Sept. 2021: Host selection meeting for committee review of artist proposals

Oct. 2021: Invite two finalists to further develop proposals and present them in person

Nov. 2021: Finalist presentations

Dec. 2021: Prepare artist contract

Jan. 2022: Announce sculptor selected

Jan. 2022 – May 2023: Monitor progress of sculpture work

May 2023: Sculpture Installation

Performance Measurement *

The City of Hattiesburg and VisitHattiesburg will promote/document the project on their websites and social media accounts. Short-term impact will be evaluated by direct observation and by collecting oral and written feedback from stakeholders and the public. Early measures of success will focus primarily on reaction to the sculpture, such as traffic numbers, the nature of verbal feedback, and nature of press coverage. Since longer-term goals involve shifts in attitude—toward the community, the arts, and cultural resources—we will gather responses on quality of life issues, measuring the impact on sense of community attachment and access to arts.

Intended Audience/Participants/Community. Who will benefit from the project and how? *

The primary intended beneficiaries of the project are the residents of the City of Hattiesburg. However, it is the hope that this sculpture will draw a large number of visitors from throughout the Hattiesburg Metropolitan Statistical Area (which includes Forrest, Lamar, and Perry Counties), as well as tourists from within the entire state of Mississippi and throughout the nation. The sculpture itself will be located on heavily traveled Hardy Street, and viewable/accessible to all—so barriers such as socioeconomic status will not hinder residents or visitors from enjoying the public work of art. The sculpture will ensure that the story of Blind Roosevelt Graves lives on in the minds and hearts of all who pass through this part of Hattiesburg, reminding all of Hattiesburg's place in music history and inspiring future generations to cultivate their talents and contribute to the music culture of Hattiesburg. The sculpture will aid in the development and promotion of tourism in Hattiesburg, attracting tourists and arts and music enthusiasts, increasing the health of the economy and subsequently contributing to an improved quality of life for residents.

Discipline-Specific Item 1

Selection process:

The City of Hattiesburg owns the project site. Artist selection will involve the following:

- Develop and distribute a national call for artist proposals
- Develop a selection committee composed of professional sculptors, city officials, and arts patrons
- Distribute proposals to selection committee for review
- Host selection meeting where committee members will evaluate and score entries based on published criteria

Discipline-Specific Item 3

[illegible]

	\$0
	\$0
	\$0
	\$0
	\$0
<u>Total Other Expenses</u>	\$200,000

<u>TOTAL DIRECT COSTS</u>	\$200,000
----------------------------------	-----------

INDIRECT COSTS (if applicable)	
Federal Agency	
Rate Agency (.0000)	0.00
Base	\$0
TOTAL INDIRECT COSTS	

Project Income

Cash Project Income	
Description	Amount
City General Fund	\$100,000
<u>Total Cash</u>	\$100,000

In-kind Project Income	
Description	Amount
Private Fundraising	\$50,000
<u>Total in-kind</u>	\$50,000

Amount Requested from the NEA \$50,000
Total Cost Share/Match for this project (Total CASH + Total IN-KIND) \$150,000
TOTAL PROJECT INCOME (Total Cost Share / Match + Amount Requested from NEA) \$200,000
TOTAL PROJECT COSTS/EXPENSES (Total Direct Costs + Total Indirect Costs) \$200,000

Additional Project Budget Notes (Optional): Provide information to clarify any line item included in the project budget.

Uploaded Docs, Work Samples

Support Material	Title	Description
Hattiesburg Work Samples.pdf	Hattiesburg Work Samples	The attachment includes examples from previous City of Hattiesburg public art projects, as well as images that are representative of the developing concept for the current project.

Organization & Project Information

Applicant Organization Discipline: Select the primary discipline that is most relevant to your organization and, optionally, up to two additional disciplines. This refers to the primary artistic emphasis of your organization. *

- None of the Above

Applicant Organization Description: Select the primary description that is most relevant to your organization *

- Government

Does your organization have a disaster preparedness plan (i.e., plans to handle disasters and emergencies such as floods, hurricanes, and man-made disasters)?

- Yes

Project Activity Type: *

- Artwork Creation - Includes media arts, design projects, and commissions

Race/Ethnicity (choose all that apply)

- No specific racial/ethnic group

Age Ranges (choose all that apply)

- No specific age group

Underserved/Distinct Groups (choose all that apply)

- No specific underserved/distinct group



Memorandum

To: Mayor Toby Barker and Members of City Council

From: Chris McGee, Director of Parks and Recreation

cc:

Date: Tuesday, August 4, 2020

Re: Authorize submission of a grant application to the Mississippi Arts Commission (MAC) Rapid Response Minigrant Program for funding to continue free virtual programming in the Fall of 2020 with a 16-week public art workshop. The total project cost is \$2,000 (\$1,000 state share and \$1,000 local share).
File Number: 2020-492
Minute Book #

Summary

MAC Rapid Response Minigrant

Recommendation Statement

I recommend authorization of the submission of a grant application to the Mississippi Arts Commission (MAC) Rapid Response Minigrant Program for funding to continue free virtual programming in the Fall of 2020 with a 16-week public art workshop. The total project cost is \$2,000 (\$1,000 state share and \$1,000 local share).

Please place this on the August 4, 2020 City Council meeting for consideration.

FY2020 - Rapid Response Organization Application

Hattiesburg Community Arts Center

Mrs Emily Gallaspy

825 Main Street

Hattiesburg, MS 39402

O: 601-620-6422

Mrs Emily Adcock Gallaspy

825 Main Street

Hattiesburg, MS 39401

egallaspy@hattiesburgms.com

O: 601-620-6422

Application Form

Organization Information

Rapid Response Organization Mini Grant

DEADLINE to apply is 11:59pm on July 17, 2020.

Check the appropriate grant program under which you are applying:*

- **Arts-Based Community Development** (arts councils, after school programs, fraternal groups, main street associations, theatre's etc.).
- **Arts Industry** (fine arts organizations, such as Museums, Opera's, Symphonies).
- **Arts Education** (schools and organizations involved in arts curriculum such as arts integration or arts infusion).
- **Folk and Traditional Arts** (Examples include: traditional music and cultural festivals, folk art/music museums, or cultural organizations that promote cultural heritage and folk art genres).

Arts-Based Community Development

Year organization was founded.*

List the year the organization was founded.

1882

Incorporation date*

List the year that the organization was incorporated.

1884

IRS 501(c)3 Determination Letter

MAC provides grants to organizations who are certified 501c3 nonprofits or units of governments, such as municipalities, schools or libraries.

You do not need to submit a copy of the letter if your organization has submitted a copy to MAC in the past 3 years.

However, if your organization is new or you are not sure if you have submitted a letter in the past, please submit a copy of your IRS 501(c)3 determination letter.

Public schools, universities, libraries and other agencies of local government are exempt from this requirement.

IRS Letter 4076C.pdf

Amount Requested*

The minimum amount = \$200.

The maximum amount = \$1,000.

Rapid Response Mini Grants are MATCHING GRANTS and can support up to half of the total expenses of a project.

Grantees must be able to provide a dollar for dollar financial match for the requested amount with organizational dollars.

\$1,000.00

What type of support are you requesting?*

Minigrants to Organizations can only be used for one of the following: (see guidelines for more eligibility detail)

Adapting your organization's work for online or social distancing (including virtual programming)

Project Start Date*

Projects must take place during MAC's current fiscal year. (September 1st, 2020 and ending no later than June 30, 2021)

On what date will activities relevant to your project begin? List the specific date on which you will start your project.

***REMEMBER: You cannot start your project prior to September 1st, 2020.**

09/03/2020

Project End Date*

Projects must take place during MAC's current fiscal year. (September 1st, 2020 and ending no later than June 30, 2021)

On what date will activities relevant to your project end? List the specific date on which you will complete your project.

12/19/2020

Does your organization serve any of the following underserved groups?

People of Color
Individuals with Disabilities
Veterans
Those with extremely high poverty rates

Is your organization led by people of color?*

(Led by = majority staff or board)

No

Has your organization already received COVID-19 relief from MAC or other state or federal agencies?*

Yes

Narrative Description of Project Activity*

Brief description regarding your proposed Rapid Response project. *NOTE: Your answers will depend on the type of request you are making.*

If you are:

- **Hiring a Roster Artist**
 - List the artist(s) name(s), services they will provide & who will benefit. If not a MAC Roster artist, tell us which adjudicated Roster they are on.
- **Attending a Conference, Workshop or Training**
 - The staff & board of arts organizations may apply to attend conferences/workshop or trainings. List the name of the training, who will attend & how they will benefit.
- **Hiring an organizational consultant:**
 - Arts organizations may apply to hire a consultant for strategic planning, I.D.E.A, Emergency Prep or other internal trainings.
- **Adapting an organization's work for online or social distancing**
 - Organizations may apply to convene virtually or to create distanced programming such as an online workshops, live streams, virtual tours, etc.
 - Provide more details including how, and for whom you will provide programming.

The Hattiesburg Community Arts Center, located in Downtown Hattiesburg, is managed by the City of Hattiesburg. The facility began operation in 2019 with the hiring of a facility director. Since opening, the HCAC has hosted a variety of productions, art collective meetings, and children's programs. The growth of the art center was quickly halted by the outbreak of COVID-19. Like most other community centers, events and programming were canceled and the building became quiet and empty.

Understanding the importance of self-expression and the power of creativity, now more than ever, HCAC responded quickly with a partnership with Hattiesburg Arts Council. Using funds intended for summer camps, virtual art classes were created to continue the free HAC smART Space program. On March 27 virtual classes began, offering art, music, and movement exercises every Monday, Wednesday, and Friday from 9 a.m. until 10 a.m. With the increase in participation, a month-long camp was created in June. Supplies needed for each of the 12 classes were packaged for parents to pick up. Children and adults were then able to complete projects along with the classes without having to purchase any supplies. The HAC smART Space Virtual Summer Camp was able to reach 106 people within a 30-mile radius.

In addition to creating virtual programming, the Hattiesburg Community Art Center started a community mural project. Donated sheets of plywood were placed at Town Square Park in Downtown Hattiesburg. Oil pastels were provided so people visiting the park could draw or write something encouraging. Three murals were completed during the summer, and there is hope to continue the program to give people an outlet during these uncertain times.

The Hattiesburg Community Arts Center is requesting funds from the MS Arts Commission's Rapid Response Minigrants for Organizations program to continue free virtual programming in the Fall of 2020 with a 16-week public art workshop. The workshop would include a weekly class streamed via Facebook Live and uploaded to a Google Classroom. Each week's content would include demonstrations and lectures on how to create public art in your own community. Classes would be taught by local artist Abigail Lenz Allen, Program Coordinator for HAC smART Space. In addition to hosting virtual art classes, she will also hold a monthly service project at four different parks to install or create a piece of public art with workshop participants.

This program would be offered at no charge to participants and marketed towards students in the Hattiesburg Public School District. By hosting classes via Facebook Live and uploading content to Google Classroom, students would be able to access content whenever and wherever they are able. Public school teachers would also be able to use Google Classroom materials for supplemental learning. By hosting in-person service projects each month at four different neighborhood parks, we are hoping to reach children with limited access to the internet and transportation. Based on participation in HAC smART Space Virtual

Summer Camp, 100 online students and 15 in-person students would be expected to take part in the workshop.

The Public Art Workshop would begin on Thursday, September 3. Marketing efforts would begin before the start of the school year. Information about the program would be provided to teachers and administration at Woodley, Grace Christian, Thames, and Rowan Elementary Schools; N.R. Burger Middle School; and Hattiesburg High School. Social media marketing efforts would include posting content on the Facebook pages for Hattiesburg Parks and Recreation, Camp Create, and Art Makes Art Hattiesburg.

Each Public Art Workshop class would include a different technique used in the creation of public art, a tour of Hattiesburg public art pieces, or an interview with a local artist. Community service projects would be held on the third Saturday of each month from September until December. The first public art installation would be held on Saturday, September 19 from 9 a.m. until 12 p.m. at Town Square Park with the creation of a painted rock garden. Other installation locations include Chain Park, Kamper Park, and the Hattiesburg Community Arts Center. The final three projects will be decided based on input from students participating in the workshop. The hope is to encourage students to create art that they feel represents their own neighborhoods and communities.

The main goal for the Hattiesburg Community Arts Center Public Art Workshop is to not only provide arts education to children but to also encourage them to use their voices and creativity to make their own footprints in their community. Four public art installations would be created in four neighborhoods, featuring the work of dozens of young artists and children exploring art as a safe outlet for self-expression. Giving young people a creative outlet and voice in their community will help strengthen their pride and ownership of their neighborhoods. This program will be an important resource for young people to learn about art and connect with other young artists, especially during current stay-at-home and social distancing practices.

Supporting Documentation*

Upload the required documentation for each request. *NOTE: Your documentation will depend on the type of request you are making.*

If you are:

- **Hiring a Roster Artist**
 - Create and **attach** a letter of agreement between your organization and the intended artist(s) for hire, stating your intent to hire if awarded MAC support.
 - Submit a screenshot of, or a link to, the adjudicated roster on which the artist is listed.
- **Attending a Conference/Workshop/Training**
 - Upload a copy of the registration form including related fees. If travel funds are being requested, please include price estimates (hotel/flight quote)
- **Hiring a Consultant:**
 - Attach a narrative with more information about the proposed consultant including rationale for hiring and the organization's desired outcomes for the consultation.
- **Adapting an organization's work for online or social distancing**
 - Attach a narrative that includes a description of the planning programming, how it will take place, who it will benefit and the desired outcomes.

HCAC Public Art Workshop Proposal.pdf

****Eligible file types: Word, PDF, JPEG, or Excel; for a full list of eligible types check the FAQ**

Additional Supporting Documentation Request (if applicable)

****Eligible file types: Word, PDF, JPEG, or Excel; for a full list of eligible types check the FAQ**

[Unanswered]

Additional Supporting Documentation Request (if applicable)

****Eligible file types: Word, PDF, JPEG, or Excel; for a full list of eligible types check the FAQ**

Project Participation

Please estimate the number of people who will take part in your project. Your estimate should include everyone who will participate, including attendees, volunteers, staff, and artists.

TOTAL number of people taking part?*

List a total estimated number of people who will take part in activities supported by this grant:

100

Under 18?*

List the total estimated number of people under 18 who will take part in this activity?

98

How many people will be paid for work connected with these activities?*

For example: artist or consultant fees, the project director's salary, or other subcontractor fees.

2

How many of the paid individuals are artists?*

1

Organization Structure

First and Last Name of PRIMARY STAFF PERSON working on the project*

Emily Adcock Gallaspy

Staff Bio #1:*

Key Artistic or Administrative Personnel: Provide a short biography for the **primary staff person** (listed above) within the organization working on the project.

Include only relevant biographical and professional details and state whether they are paid or volunteer.

Emily Adcock Gallaspy, Hattiesburg Community Arts Center Director, is employed by the City of Hattiesburg. She is a graduate of The University of Southern Mississippi (USM) with a BS in Hotel, Restaurant, and Tourism Management and an MS in Economic Development. In response to COVID-19, she coordinated a

collaborative effort between the City of Hattiesburg and Hattiesburg Arts Council to teach 14 weeks of free, virtual art and music classes for children and adults.

First and Last Name of SECONDARY STAFF PERSON working on the project

Abigail Lenz Allen

Staff Bio #2:

Key Artistic or Administrative Personnel: Provide a short biography for the **secondary staff person** (listed above) within the organization working on the project. *Include only relevant biographical and professional details and state whether they are paid or volunteer.*

Abigail Lenz Allen, HAC smART Space Program Coordinator, is a resident artist at the Hattiesburg Community Arts Center. Between March and July of this year, she created a free virtual arts program in an effort to bring arts education into people's homes through the use of simple streaming services such as Facebook Live. In addition, she is the Creator/Producer of Hattiesburleque, Co-Creator of Center Stage at Sacred Heart School, and Creator of Art Makes Art Materials Exchange and Camp Create.

Demographics

List of Board of Directors

List or upload the names of the organization's board members and their roles and experience. Please indicate their ethnic make-up and any members with disabilities.

Example:

Mae Smith (African American)
Secretary
Deputy Director of Museum
Disability: Yes

Jeffrey George (White)
Ward One Representative
Disability: No

Jeffrey George is serving his first term as representative for Ward One. He is the director of marketing and business development for Mike Rozier Construction. He is a member of the USM Alumni Association, Eagle Club and Dugout Club, and advisor for Pi Kappa Phi fraternity. He is also a member of the Area Development Partnership and the Pine Belt Young Professionals board and serves as Vice President of Highlands Neighborhood Association.

Deborah Delgado (African American)
Ward Two Representative
Disability: No

Deborah Delgado is in her fifth term representing Ward Two. She is the founder and chairperson of the annual Historic Mobile Street Renaissance Festival. She is a board member of the National Black Caucus of Local Elected Officials (NBC-LEO), the NBC-LEO Foundation, and Vice President for Trust of the World Conference of Mayors. She is a member of the Advisory Council of the National League of Cities (NLC), Delta

Sigma Theta Sorority, National Association for the Advancement of Colored People (NAACP), and numerous other social and civic organizations.

Carter Carroll (White)
Ward Three Representative/ City Council President
Disability: No

Carter Carroll is in his sixth term representing Ward Three, and he currently serves as president of City Council. Carroll is a Senior Account Executive for Ability Network. He is a lifetime member of the USM Alumni Association and is involved in numerous civic and social organizations.

Mary Dryden (White)
Ward Four Representative/ City Council Vice President
Disability: No

Mary Dryden is in her second term representing Ward Four. She also serves as vice president of City Council. A former teacher, she entered private practice in 2000 as a licensed professional counselor and licensed marriage and family therapist. She is a member of the South MS Art Association, Phi Mu Alumni Association, USM Alumni Association, Historic Hattiesburg Downtown Association, the Oaks Neighborhood Association, and numerous other civic and cultural organizations.

Nicholas Brown (African American)
Ward Five Representative
Disability: No

Nicholas Brown is in his first term representing Ward Five. He is the owner of Brown Lawn Service, which he established in 2009. Until his election to the City Council, Councilman Brown served as a substitute teacher with the Hattiesburg Public School District. His career has also included work in the management programs at Walgreens and Sanderson Farms, Inc.

List the total number of Board Members*

5

Demographics of Board Members:

For reporting sake, we must collect a % of racial composition of staff and board. Please enter the racial demographic make-up of your **Board of Directors** in number form. Make sure that the racial composition equals 100%.

- **(Example):**
 - **30% White = 30**
 - **35% African American = 35**
 - **.5% Native American =.5**
 - **25% Hispanic = 25**
 - **9% Asian = 9**
 - **.5% Other = .5**

% Board Members - White

60.0

% Board Members - African American

40.0

% Board Members - Native American

0.0

% Board Members - Hispanic

0.0

% Board Members - Asian

0.0

% Board Members - Other

0.0

List the total number of Staff Members*

1

Demographics of Staff: For reporting sake, we must collect a % of racial composition of staff and board. Please enter the racial demographic make-up of your **staff** in number form. Make sure that the racial composition equals 100%.

- **(Example):**
 - **30% White = 30**
 - **35% African American = 35**
 - **.5% Native American = .5**
 - **25% Hispanic = 25**
 - **9% Asian = 9**
 - **.5% Other = .5**

% Staff Members - White

100.0

% Staff Members - African American

0.0

% Staff Members - Native American

0.0

% Staff Members - Hispanic

0.0

% Staff Members - Asian

0.0

% Staff Members - Other

0.0

List the total number of Artists taking part in the project

1

Demographics of Artists Taking Part: For reporting sake, we must collect a % of racial composition of artists and all anticipated participants. Please enter the racial demographic make-up of your **artists** in number form. Make sure that the racial composition equals 100%.

- **(Example):**
 - 30% White = 30
 - 35% African American = 35
 - .5% Native American = .5
 - 25% Hispanic = 25
 - 9% Asian = 9
 - .5% Other = .5

% Artists - White

100.0

% Artists - African American

0.0

% Artists - Native American

0.0

% Artists - Hispanic

0.0

% Artists - Asian

0.0

% Artists - Other

0.0

List the TOTAL # of all people anticipated to take part in grant related activities*

100

Demographics of the TOTAL number of anticipated people taking part in all grant related activities: For reporting sake, we must collect a % of racial composition of artist and all anticipated participants. Please enter the racial demographic make-up of **ALL anticipated number of people taking part** in number form. Make sure that the racial composition equals 100%.

- **(Example):**
 - **30% White = 30**
 - **35% African American = 35**
 - **.5% Native American =.5**
 - **25% Hispanic = 25**
 - **9% Asian = 9**
 - **.5% Other = .5**

% Total People Taking Part in all Activities - White

3.0

% Total People Taking Part in all Activities - African American

88.2

% Total People Taking Part in all Activities - Native American

0.0

% Total People Taking Part in all Activities - Hispanic

6.1

% Total People Taking Part in all Activities - Asian

0.0

% Total People Taking Part in all Activities - Other

2.2

Describe your organization's geographic area of service.*

Please be specific. Name the city, county, or multi-county region that your organization serves with its programs and services.

The Greater Hattiesburg Area includes Forrest, Lamar and Perry Counties. The Hattiesburg Community Arts Center is located in Hattiesburg, MS in Forrest County and is managed by the City of Hattiesburg Parks and Recreation. In response to COVID-19, Hattiesburg Parks and Recreation partnered with the Hattiesburg Arts Council to create 14 weeks of free arts programming. Classes were streamed via Facebook Live every Monday, Wednesday, and Friday for one to one and a half hours. The program was able to reach children and adults in a 30-mile radius, as well as further locations such as Jones and Rankin Counties.

List the Total Population for the Community you Serve.*

149119

Population of your Community: Enter the racial composition of the Total Population for the Community you Serve below. Make sure that the racial composition equals 100%. Community is defined as the geographic area served by your organization. Check the U.S. Census Bureau's website (www.census.gov) to find the most recent estimate of your community's population.

- **(Example):**
 - **30% White = 30**
 - **35% African American = 35**
 - **.5% Native American = .5**
 - **25% Hispanic = 25**
 - **9% Asian = 9**
 - **.5% Other = .5**

% Population - White

66.0

% Population - African American

29.0

% Population - Native American

0.0

% Population - Hispanic

3.0

% Population - Asian

1.0

% Population - Other

0.0

Accessibility

Where will the activities take place?*

Name the facility (or facilities) and the city where the event will be taking place. *You must include the actual street address.*

If this is a virtual event, include the address where the primary broadcast will take place.

Hattiesburg Community Arts Center, 825 Main Street, Hattiesburg, MS

Accessibility: Disabilities*

Are the facilities listed above accessible to persons with physical or other disabilities?

Yes

Briefly explain how the facilities are accessible to persons with disabilities*

The Hattiesburg Community Arts Center meets ADA requirements such as having a ramp to the front entrance of the building, wide hallways, and large restrooms. In addition to addressing physical restrictions, the HCAC has also implemented more socially accessible workspaces through the creation of quiet rooms, sensory spaces, and open classrooms.

Accessibility: General Public*

Are the facilities open and available to the general public?

In the space provided, please explain how the facilities and activities are accessible.

Please Note: MAC funded activities must be accessible to the general public. Activities planned for private residences will receive low priority in funding decisions.

The Hattiesburg Community Arts Center is open to the public from 9 a.m. until 5 p.m. Monday through Friday. HCAC is in Downtown Hattiesburg, walking distance from Hawkins Elementary School, Hattiesburg Public Library, and many neighborhoods. The HCAC Public Art Workshop will host weekly lectures and demonstrations through the Hattiesburg Parks and Recreation Facebook page. Instructional videos will also be uploaded to a Google Classroom page each week, so people without Facebook will be able to access the content. Also, once a month, the Public Art Workshop will meet in a public space to install public art. A major concern with outreach efforts has been transportation. By bringing public art projects into different neighborhoods, HCAC seeks to remove any transportation restrictions that may keep people from participating in after school arts education and community service.

Budget Information

Rapid Response Budget Form*

Download the Rapid Response Budget Form by clicking <https://arts.ms.gov/wp-content/uploads/2020/07/Final-Rapid-Response-MG-Application-Budget-Form.pdf>**HERE**.

Download the Budget Form first and SAVE the form to your computer (DO NOT fill out in internet browser), fill out the form, Re-save to your computer and upload.

PLEASE DOUBLE CHECK THAT YOU DO NOT UPLOAD A BLANK BUDGET.

Final-Rapid-Response-MG-Application-Budget-Form-1.pdf

Legislative Districts

List (below) the Legislative District numbers associated with your street address and zip code. To determine U.S. Congressional District, MS Senate District and MS House District numbers visit Project Vote Smart (www.votesmart.org) and type in your zip code +4 to find their names. If you don't know your zip code+4 number, you can find it using the "Zip Code Lookup" feature on the U.S. Postal Service website:

<http://zip4.usps.com/zip4/welcome.jsp>.

U.S. Congressional District*

Select the number that coincides with your street address and zip code.

004

MS Senate District*

Senate District numbers are 1-52. Select the number that coincides with your street address and zip code.

34

MS House District*

House District numbers are 1-122. Select the number that coincides with your street address and zip code.

103

Certification and Electronic Signatures

Rapid Response Mini Grant

DEADLINE: July 17th, 2020 by 11:59pm

In July and August, MAC staff along with the grants committee will review the applications and make funding decisions. **Applicants will be notified whether or not their application will be awarded funding by late August, 2020.** No information on the status of the application will be available prior to that time.

Certification

The authorizing official and project director certify that the information contained in the application, including all attachments and supporting material, is true and correct to the best of our knowledge. We certify that the applicant will comply with all general and specific guidelines and restrictions of the Mississippi Arts Commission

and, when applicable, of the National Endowment for the Arts, including the Civil Rights Act of 1964 and Section 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act of 1990, Executive Order 12549, Fair Labor Standards, and the Drug Free Workplace Act of 1988. For a complete list of the federal regulations, please see the NEA's General Terms and Conditions at www.arts.gov/managementaward/GTC.pdf.

Project Director Name, Title, Date*

(As a reminder, your organization's Project Director and Authorizing Official must be two different people.)

I certify that the application form has been completed with information representing the applying organization and that the above-listed documents are attached.

Please type in your name, title and date below:

Emily Adcock Gallaspy, Hattiesburg Community Arts Center Director

Date*

07/14/2020

Incomplete applications missing one or more of the requirements **will not be considered for funding.**

NOTE: You will not be able to submit the application if the required fields are not complete. **Common error - extra spaces after numbers.**

Applications will **NOT BE ACCEPTED** after 11:59 p.m. on the November 1 deadline. **BOTH** the Project Director and Authorizing Official must be signed and authorized by 11:59 P.M.

Authorizing Official Approval

Authorizing Official - Email Address*

Include the Authorizing Official's email address, then click on "Compose Email" and type a brief message to the person serving as authorizer for the organization.

Let them know that they will receive an automatic email for their approval (remind them to check junk mail). Once you send the email to the authorizer, you can go ahead and submit the application. The application will be considered ready for review once the authorizing official responds.

NOTE: The Authorizing Official and Project Director must be two different individuals with separate email addresses, application will not be valid if both are signed by the same person.

jshows@hattiesburgms.com

File Attachment Summary

Applicant File Uploads

- IRS Letter 4076C.pdf
- HCAC Public Art Workshop Proposal.pdf
- Final-Rapid-Response-MG-Application-Budget-Form-1.pdf

ATLANTA GA 39901-0001

In reply refer to: 0752161057
Jan. 31, 2019 LTR 4076C 0
64-6000432 000000 00

00006598
BODC: TE

CITY OF HATTIESBURG MISSISSIPPI
PO BOX 1898
HATTIESBURG MS 39403-1898

Federal Identification Number: 64-6000432
Person to Contact: TEGE
Toll Free Telephone Number: 1-877-829-5500

Dear Taxpayer:

This responds to your request for information about your federal tax status. Our records do not specify your federal tax status. However, the following general information about the tax treatment of state and local governments and affiliated organizations may be of interest to you.

GOVERNMENTAL UNITS

Governmental units, such as States and their political subdivisions, are not generally subject to federal income tax. Political subdivisions of a State are entities with one or more of the sovereign powers of the State such as the power to tax. Typically they include counties or municipalities and their agencies or departments. Charitable contributions to governmental units are tax-deductible under section 170(c)(1) of the Internal Revenue Code if made for a public purpose.

ENTITIES MEETING THE REQUIREMENTS OF SECTION 115(1)

An entity that is not a governmental unit but that performs an essential government function may not be subject to federal income tax, pursuant to Code section 115(1). The income of such entities is excluded from the definition of gross income as long as the income (1) is derived from a public utility or the exercise of an essential government function, and (2) accrues to a State, a political subdivision of a State, or the District of Columbia. Contributions made to entities whose income is excluded income under section 115 may not be tax deductible to contributors.

TAX-EXEMPT CHARITABLE ORGANIZATIONS

An organization affiliated with a State, county, or municipal government may qualify for exemption from federal income tax under section 501(c)(3) of the Code, if (1) it is not an integral part of the government, and (2) it does not have governmental powers inconsistent with exemption (such as the power to tax or to exercise enforcement or regulatory powers). Note that entities may meet the requirements of both sections 501(c)(3) and 115 under certain circumstances. See Revenue Procedure 2003-12, 2003-1 C.B. 316.

0752161057

Jan. 31, 2019 LTR 4076C 0

64-6000432 000000 00

00006599

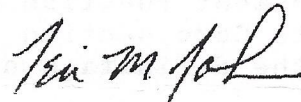
CITY OF HATTIESBURG MISSISSIPPI
PO BOX 1898
HATTIESBURG MS 39403-1898

Most entities must file a Form 1023, Application for Recognition of Exemption Under Section 501(c)(3) of the Internal Revenue Code, to request a determination that the organization is exempt from federal income tax under 501(c)(3) of the Code and that charitable contributions are tax deductible to contributors under section 170(c)(2). In addition, private foundations and other persons sometimes want assurance that their grants or contributions are made to a governmental unit or a public charity. Generally, grantors and contributors may rely on the status of governmental units based on State or local law. Form 1023 and Publication 4220, Applying for 501(c)(3) Tax-Exempt Status, are available online at www.irs.gov/eo.

We hope this general information will be of assistance to you. This letter, however, does not determine that you have any particular tax status. If you are unsure of your status as a governmental unit or state institution whose income is excluded under section 115(1) you may seek a private letter ruling by following the procedures specified in Revenue Procedure 2007-1, 2007-1 I.R.B. 1 (updated annually).

If you have any questions, please call us at the telephone number shown in the heading of this letter.

Sincerely yours,



Teri M. Johnson
Operations Manager, AM Ops. 3



Hattiesburg Community Arts Center Virtual Public Art Workshop



Hattiesburg Community Art Center Virtual Public Art Workshop

The Hattiesburg Community Arts Center, located in Downtown Hattiesburg, is managed by the City of Hattiesburg. The facility began operation in 2019 with the hiring of a facility director. Since opening, the HCAC has hosted a variety of productions, art collective meetings, and children's programs. The growth of the art center was quickly halted by the outbreak of COVID-19. Like most other community centers, events and programming were canceled and the building became quiet and empty.

Understanding the importance of self-expression and the power of creativity, now more than ever, HCAC responded quickly with a partnership with Hattiesburg Arts Council. Using funds intended for summer camps, virtual art classes were created to continue the HAC smART Space program. On March 27 virtual classes began, offering art, music, and



movement exercises every Monday, Wednesday, and Friday from 9 a.m. until 10 a.m. With the increase in participation, a month-long camp was created in June. Supplies needed for each of the 12 classes were packaged for parents to pick up. Children and adults were then able to complete projects along with the classes without having to purchase any supplies. The HAC smART Space Virtual Summer Camp was able to reach 106 people within a 30-mile radius.

In addition to creating virtual programming, the Hattiesburg Community Art Center started a community mural project. Donated sheets of plywood were placed at Town Square Park in Downtown Hattiesburg. Oil pastels were provided so people visiting the park could draw or write something encouraging. Three murals were completed during the summer, and there is hope to continue the program to give people an outlet during these uncertain times.



The Hattiesburg Community Arts Center is requesting funds from the MS Arts Commission's Rapid Response Minigrants for Organizations program to continue free virtual programming in the Fall of 2020 with a 16-week public arts workshop. The workshop would include a weekly class streamed via Facebook Live and uploaded to a Google Classroom. Each week's content would include demonstrations and lectures on how to create public art in your own community. Classes would be taught by local artist Abigail Lenz Allen, Program Coordinator for smART Space. In addition to hosting virtual art classes, she will also hold a monthly service project at four different parks to install or create a piece of public art with workshop participants.

This program would be offered at no charge to participants and marketed towards students in the Hattiesburg Public School District. By hosting classes via Facebook Live and uploading content to Google Classroom, students would be able to access content whenever and wherever they are able. Public school teachers would also be able to use Google Classroom materials for supplemental learning. By hosting in-person service projects each month at four different neighborhood parks, we are hoping to reach children with limited access to the internet and transportation. Based on participation in HAC smART Space Virtual Summer Camp, 100 online students and 15 in-person students would be expected to take part in the workshop.

Enrollment by Subgroup

Group Name	Group Number	Group Percent (%)
Female	1910	49.58%
Male	1942	50.42%
Asian	*	*
African American	3398	88.21%
Hispanic or Latino	235	6.10%
American Indian or Alaskan Native	*	*
White	117	3.04%
Two or More Races	86	2.23%
Native Hawaiian or Pacific Islander	*	*

Hattiesburg Public School District Enrollment 1 -Mississippi Department of Education

Enrollment by Grade

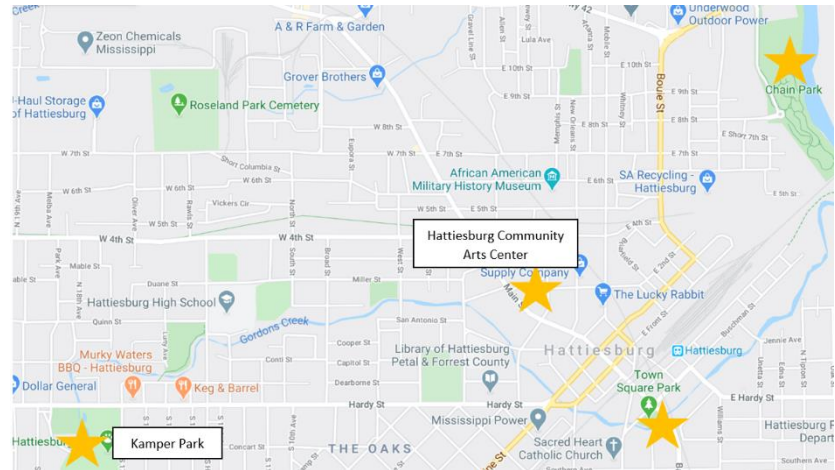
Grade	Number Enrolled
Pre-Kindergarten	94
Special Education Pre-K	*
Kindergarten	344
Special Education Kindergarten	*
Elementary Special Education	53
Grade 1	332
Grade 2	279
Grade 3	324
Grade 4	284
Grade 5	317
Grade 6	308
Grade 7	291
Grade 8	285
Grade 9	228
Grade 10	228
Grade 11	214
Grade 12	186
Secondary Special Education	67
Total Enrollment	3852

*Hattiesburg Public School District
Enrollment 2 -Mississippi Department
of Education*

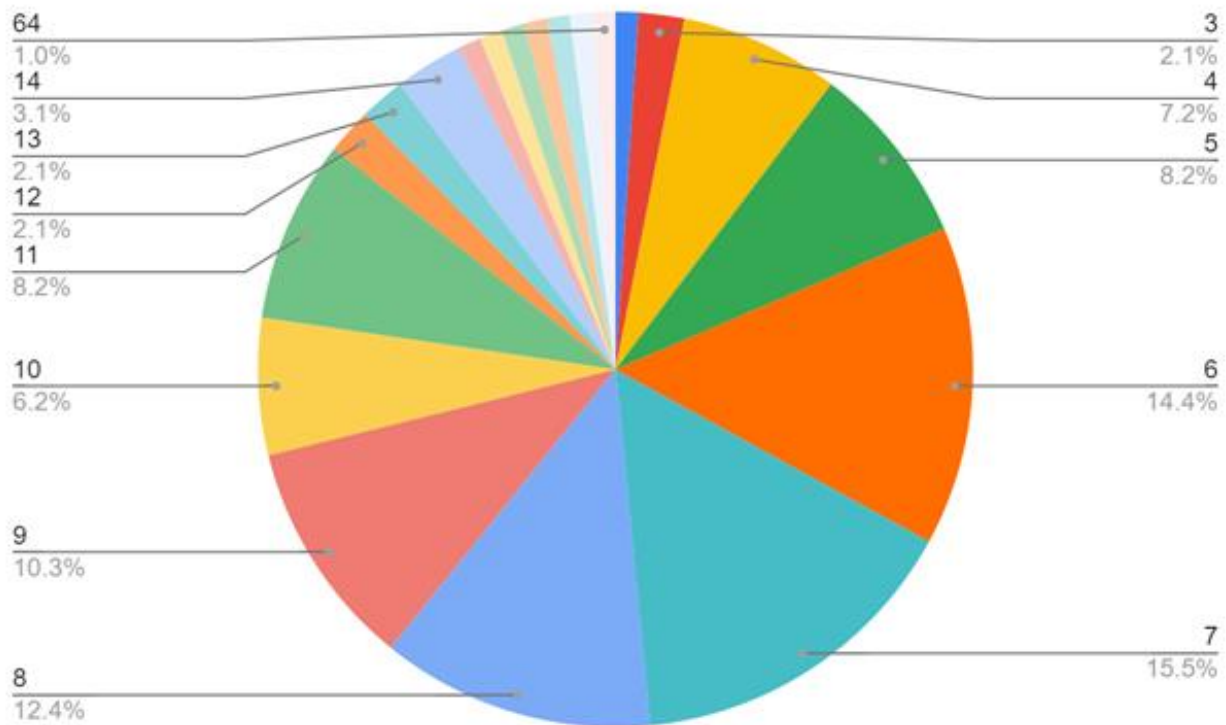
The Public Art Workshop would begin on Thursday, September 3. Marketing efforts would begin before the start of the school year. Information about the program would be provided to teachers and administration at Woodley, Grace Christian, Thames, and Rowan Elementary Schools; N.R. Burger Middle School; and Hattiesburg High School. Social media marketing efforts would

include posting content on the Facebook pages for Hattiesburg Parks and Recreation, Camp Create, and Art Makes Art Hattiesburg.

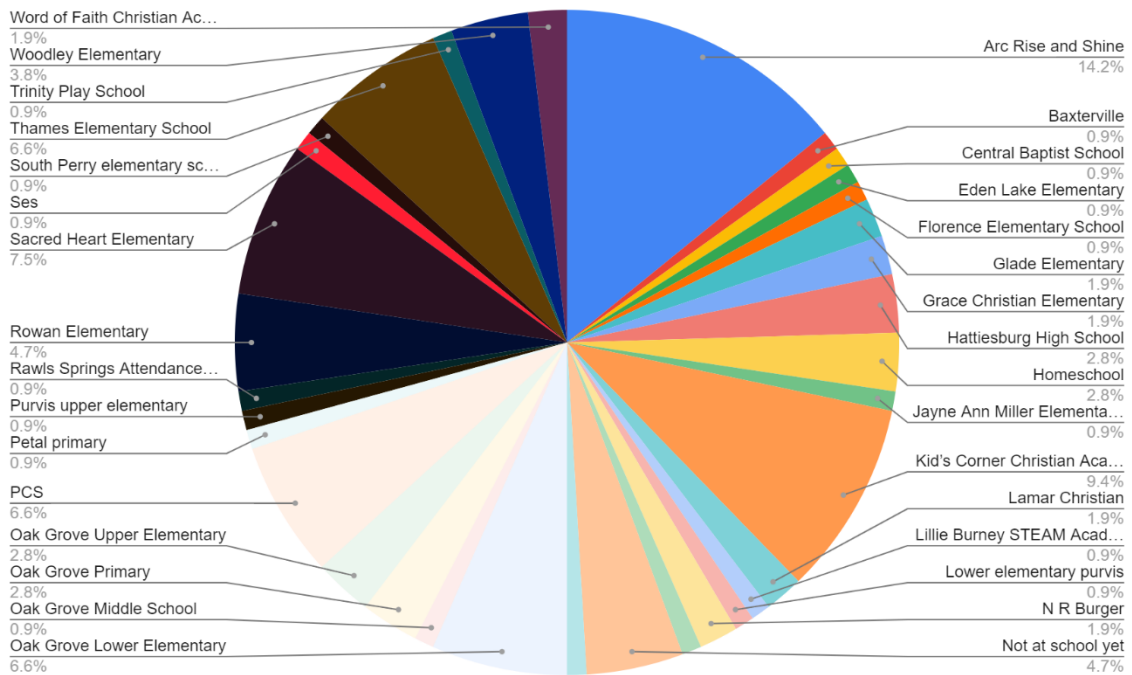
Each Public Art Workshop class would include a different technique used in the creation of public art, a tour of Hattiesburg public art pieces, or an interview with a local artist. Community service projects would be held on the third Saturday of each month from September until December. The first public art installation would be held on Saturday, September 19 from 9 a.m. until 12 p.m. at Town Square Park with the creation of a painted rock garden. Other installation locations include Chain Park, Kamper Park, and the Hattiesburg Community Arts Center. The final three projects will be decided based on input from students participating in the workshop. The hope is to encourage students to create art that they feel represents their own neighborhoods and communities.



The main goal for the Hattiesburg Community Arts Center Public Art Workshop is to not only provide arts education to children, but to also encourage them to use their voices and creativity to make their own footprints in their community. Four public art installations would be created in four neighborhoods, featuring the work of dozens of young artists and children exploring art as a safe outlet for self-expression. Giving young people a creative outlet and voice in their community will help strengthen their pride and ownership of their neighborhoods. This program will be an important resource for young people to learn about art and connect with other young artists, especially during the current stay-at-home and social distancing practices.



HAC smART Space Virtual Summer Camp Attendance- Age



HAC smART Space Virtual Summer Camp Attendance-Schools



Abigail Lenz Allen opens HAC smART Space Virtual Summer Camp on Monday, June 8.



Abigail Lenz Allen demonstrates how to participate in the Community Mural Project using oil pastels.



Making Garden Mobile with Emily Gallaspy



Making Flowerpots for Earth Day



Book Binding with Emily Gallaspy



Abigail Lenz Allen teaches moving and stretching.

Organization Rapid Response Budget: **Expenses**

Please include all expenses related to your project in this form. Rapid Response Mini Grants require a dollar-for-dollar total cash match (column totals must match; not line items). MAC requires the **total cash income equal or exceed the total cash expenses** on the budget form. **NOT EVERY LINE WILL BE APPLICABLE TO YOUR ORGANIZATION. Fill in what is applicable to your request.** DO NOT SUBMIT A BLANK BUDGET. **Please note: MAC does not fund food or permanent equipment.** Provide written description for each item in the Description of Expense column (if more space is needed, provide additional information on the expense itemization on pg. 2).

Cash Expenses	Description of Expense	Cash Match	MAC Grant	Total Amount
1. Project Fees (Contractors):				
A. Hiring an Artist				\$0
B. Hiring a Consultant				\$0
C. Hiring other professional	Abigail Lenz Allen- Program Coordinator (\$20/hour for 80 hours)	\$800	\$800	\$1,600
2. Marketing / Promo costs				
A. Design costs				\$0
B. Printing costs				\$0
3. Workshop/Conference costs				
A. Workshop Costs				\$0
B. Conference Costs				\$0
C. Other				\$0
4. Travel Costs:				
A. Transportation expenses				\$0
B. Food (cash match only)				\$0
C. Lodging expenses				\$0
5. Registration Fees				
A. Workshop Fees				\$0
B. Conference Fees				\$0
C. Other applicable fees				\$0
6. Remaining expenses:				
A. Other	Public Art Materials (plywood, paint, wire, etc.)	\$200	\$200	\$400
B. Other				\$0
C. Other				\$0
D. Other				\$0
E. Other				\$0
5. Total cash expenses:		\$1,000	\$1,000	\$2,000

Please provide detail and explain each item that is not already clearly defined the previous page. The Subtotals are automatically generated from the information provided on the preceeding page. For example, "printing" would not require further explanation; however, the service provided by "other contractor" would need a brief detailed explanation.

Mississippi Arts Commission, Rapid Response Mini Grant Application Budget, page 2

Organization Rapid Response Budget: **Income**

Please include all income related to your project in this form. Rapid Response Mini Grants require a **dollar-for-dollar cash match up to \$1,000**. MAC requires the total cash income equal or exceed the total cash expenses on the budget form. Provide written description for each item in the "Description of Income" column (if more space is needed, provide additional descriptions in the eGRANT field provided). *Before submission, verify the total cash expenses (yellow box on pg.1) are less than or equal to the total cash income (green box on pg.3).*

Cash Income	Description of Income	Amount
1. Revenue:		
A. Admissions		
B. Other income		
2. Private-sector support:		
A. Corporate contributions		
B. Foundation grants		
C. Other private contributions		
3. Government support:		
A. Federal		
B. State/regional (other than MAC grants)		
C. County		
D. Municipal	City of Hattiesburg Match	\$1,000
4. Applicant cash match:		
5. Subtotal:		\$1,000
6. Funds requested from MAC:		\$1,000
7. Total Cash Income:	(total income must <u>equal</u> or <u>exceed</u> total cash expenses)	\$2,000

In-Kind*

Defined as goods and services contributed by groups other than the applicant organization (for example, work done by volunteers or donated office space). Applicants are not required to demonstrate in-kind support; however, providing in-kind details will help the review panel get a better picture of the level of support for your project. Provide information regarding your in-kind in the text box below:

The Hattiesburg Community Arts Center receives donations from the public to the Art Makes Art Materials Exchange located in the art center. The Public Art Workshop will be able to use donated supplies to help contribute to each public art installation.



Memorandum

To: Mayor Toby Barker and Members of City Council

From: Andrew Ellard, Director, Armendia Esters

cc: Kermas Eaton, City Clerk

Date: Tuesday, August 4, 2020

Re: Acknowledge receipt of a Drainage Release, executed by Terry L. Garner and Warren T. Hankins, for 4127 Lincoln Road.
File Number: 2020-494
Minute Book #

Summary

Acknowledge receipt of a Drainage Release, executed by Terry L. Garner and Warren T. Hankins, releasing the City from any damages which may occur due to the construction located at 4127 Lincoln Road.

Recommendation Statement

Please place this on the August 4, 2020 City Council meeting for consideration.

Prepared by:
City of Hattiesburg
Urban Development/Planning
PO Box 1898
Hattiesburg, MS 39403-1898

Return to:
City of Hattiesburg
Planning Division
PO Box 1898
Hattiesburg, MS 39403-1896

STATE OF MISSISSIPPI

COUNTY OF LAMAR

DRAINAGE RELEASE

WHEREAS, the undersigned Terry L. Garner and Warren T. Hankins are the owners of that certain property located in the City of Hattiesburg, Lamar County, Mississippi known as 4127 Lincoln Road and more particularly described as:

A parcel of land located in the SE 1/4 of the SW 1/4 of Section 13 and in the NE 1/4 of the NW 1/4 of Section 24, Township 4 North, Range 14 West, Lamar County, Mississippi, and being more particularly described as follows:

Commence at a concrete monument found marking the NE corner of the said NE 1/4 of the NW 1/4 of said Section 24; thence run South 89 degrees 52 minutes 00 seconds West along the north line of the said NE 1/4 of the NW 1/4 for 429.65 feet to the Point of Beginning; thence run South 00 degrees 08 minutes 00 seconds East for 154.71 feet; thence run South 89 degrees 52 minutes 00 seconds West for 235.13 feet; thence run North 00 degrees 51 minutes 09 seconds West for 154.73 feet to an iron pin found on the south line of the said SE 1/4 of the SW 1/4 of said Section 13; thence run South 89 degrees 53 minutes 48 seconds West along said south line for 43.88 feet to an iron pin found on the southern right-of-way line of Lincoln Road; thence run North 73 degrees 05 minutes 28 seconds East along said southern right-of-way line for 146.33 feet to an iron pin found; thence run South for 42.26 feet to an iron pin found on the said north line of the said NE 1/4 of the NW 1/4 of said Section 24; thence run North 89 degrees 52 minutes 00 seconds East along said north line for 140.95 feet back to the Point of Beginning. Said parcel contains 0.91 acre, more or less. Bearings in this description are based on a GPS observation of geodetic North.

WHEREAS, a structure will be constructed contrary to Section 1 of Ordinance Number 1858 (see Section 22.6 of the City of Hattiesburg Code of Ordinances) and there is a likelihood of surface water flowing across said lot; and

WHEREAS, said Terry L. Garner and Warren T. Hankins is now applying to the City of Hattiesburg for a building permit to construct said structure; and

WHEREAS, the City of Hattiesburg is willing to issue such building permit only upon the condition that the said Terry L. Garner and Warren T. Hankins assumes the risk of damage to said house and lot from the surface waters passing down said City streets and avenues.

NOW, THEREFORE, for and in consideration of the issuance of a building permit to me by the City of Hattiesburg, I, the undersigned do hereby release and fully acquit the City of Hattiesburg for and from all damages which have accrued or may in the future accrue to me, my successors, or assignees in title to said lot by reason of surface waters which may flow from any City streets or avenues onto, near or across said lot as described above, or which may have heretofore flowed across said lot.

WITNESS MY SIGNATURE this the 30 day of June, A.D. 2020

Signature: 

PRINTED/TYPED NAME: Terry L. Garner

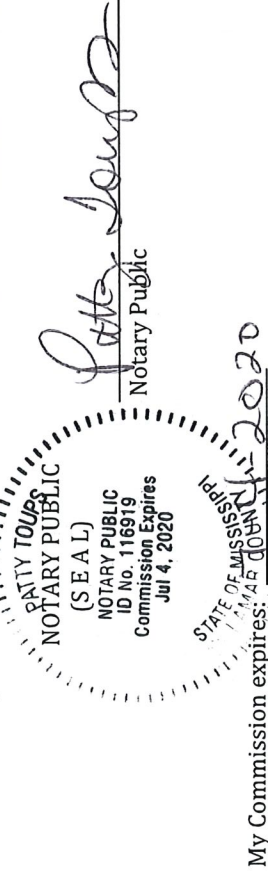
Signature: 

PRINTED/TYPED NAME: Warren T. Hankins

STATE OF MISSISSIPPI
COUNTY OF LAMAR

PERSONALLY came and appeared before me, the undersigned authority in and for said state and county, the within named Terry L. Garner who acknowledged to me that he signed and delivered the above and foregoing drainage release as and for his free act and deed, on the day and year therein mentioned, and who acknowledged to me that he is the owner of the property described herein.

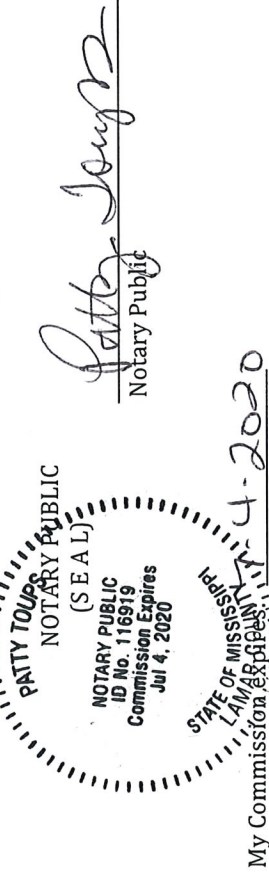
GIVEN under my hand and official seal on this the 30 day of June, A.D. 2020



STATE OF MISSISSIPPI
COUNTY OF LAMAR

PERSONALLY came and appeared before me, the undersigned authority in and for said state and county, the within named Warren T. Hankins who acknowledged to me that he signed and delivered the above and foregoing drainage release as and for his free act and deed, on the day and year therein mentioned, and who acknowledged to me that he is the owner of the property described herein.

GIVEN under my hand and official seal on this the 30 day of June, A.D. 2020





Memorandum

To: Mayor Toby Barker and Members of City Council

From: Kermas Eaton, City Clerk

cc:

Date: Tuesday, August 4, 2020

Re: Acknowledge Bids received July 23, 2020 in a reverse auction for Supervisory Control and Data Acquisition Units for the City Of Hattiesburg Water Department; Accept the bid from MD Electric in the amount of \$243,312.65.
File Number: 2020-497
Minute Book #

Summary

Acknowledge Bids received July 23, 2020 in a reverse auction for Supervisory Control and Data Acquisition Units for the City Of Hattiesburg Water Department; Accept the bid from MD Electric in the amount of \$243,312.65.

Recommendation Statement

I recommend accepting the bid of MD Electric for \$243,312.65 for Supervisory Control and Data Acquisition Units.

Please place this on the August 4, 2020 City Council meeting for consideration.

Title:	Supervisory Control and Data Acquisition Units
Agency:	Mississippi > City of Hattiesburg
Start date:	23-Jul-2020 10:30:00 AM
End date:	23-Jul-2020 11:00:00 AM

BidID	Username	Bid Amount	Bid Submittal Date/Time	First Name	Last Name	Company name	Email Address	Phone Number
44323	MDElectric	243312.6500	23-Jul-2020 10:32:11 AM	Michael	McDaniel	MD Electric	michaelmgm72@aol.com	601-731-3800



Memorandum

To: Mayor Toby Barker and Members of City Council
From: Sylvester London, Division Manager
cc:
Date: Tuesday, August 4, 2020
Re: Acknowledge receipt of the two quote docket as provided for in 31-7-13(b) of the Mississippi Code of 1972
File Number: 2020-509
Minute Book #

Summary

Acknowledge receipt of the two quote docket as provided for in 31-7-13(b) of the Mississippi Code of 1972

Recommendation Statement

Attached is the unadvertised bid docket for the period of June 26, 2020 through July 26, 2020, covering purchases requiring the obtaining of a minimum of two (2) bids as defined in Section 31-7-13 (B) of the Mississippi Code.

This report is submitted for your review, approval, and acknowledgement on the minutes of the City Council. Should there be any questions, please feel free to contact my office.

Please place this on the August 4, 2020 City Council meeting for consideration.

BILL TO: CITY OF HATTIESBURG
ACCOUNTING DEPT
PO BOX 1898
HATTIESBURG, MS 39403-1898
FAX INVOICE TO: 601-545-6661

CITY OF HATTIESBURG
PURCHASE ORDER
THE CITY IS NOT LIABLE FOR SALES TAX ID# 64-6000432

Page
Date

PO No.

Req No.

VENDOR MAILING:
COURTESY MOTORS INC
6393 HIGHWAY 98 WEST
HATTIESBURG MS 39402

BOLTON, SHARON
MINUTE BOOK # PENDING
VENDOR # 000001304

(601) 5453356

SHIP TO
CITY OF HATTIESBURG
HUB CITY TRANSIT
1001 SOUTH TIPTON
HATTIESBURG MS 39401

PROCESSING CODE:

PROJECT LINE: REMOVE AND INSTALL AUTOMATIC TRANSMISSION # 19535

SEND METHOD 1 (601)5453204

Account #	Description	QTY	UM	UNIT COST	TOTAL COST
073570.6385.01	REMOVE AND INSTALL AUTOMATIC TRANSMISSION, OIL COOLER OR COOLER LINES FLUSH AND FLUIDS # 19535	1.00	EA	6,234.6000	6,234.60

TOTAL CONTRACT AMOUNT NOT TO EXCEED

6,234.60

SUBMIT SEPARATE INVOICES FOR
EACH ORDER. PREPAY SHIPPING
CHARGES IF ANY AND ADD TO INVOICE.

THIS PO NUMBER MUST APPEAR
ON ALL PACKAGES & INVOICES.

FOR CORRECTIONS TO VENDOR
ADDRESS ABOVE, CONTACT ACCOUNTING
(601) 545-4686.

KERMAE EATON
CITY CLERK

CITY OF HATTIESBURG
QUOTE REQUEST RESPONSE FORM
 Page No.
 Date 6/25/20
 Order Number 2968 00

 COURTESY MOTORS INC.
 6393 HIGHWAY 98 WEST
 HATTIESBURG MS 39402

 Mail To CITY OF HATTIESBURG
 PURCHASING DIVISION
 220 W FRONT ST. 2ND FLOOR
 PO BOX 1898
 HATTIESBURG MS 39401

Phone Number . . . 601 5454512

 PRINTED NAME Courtesy - Terri Smith
 SIGNATURE Terri Smith DATE 6/24/20

Shipping terms are F.O.B. destination, freight prepaid

PROJECT LINE: REMOVE AND INSTALL AUTOMATIC TRANSMISSION # 19535

ITEM DESCRIPTION	Request Date	QTY	UM	Unit Price	Extended Cost	Delivery Date	Expired Date
REMOVE AND INSTALL AUTOMATIC TRANSMISSION, OIL COOLER OR COOLER LINES FLUSH AND FLUIDS # 19535	06/25/20	1.00	EA	16234.60	16234.60	7-3-20	8-3-20

 TOTAL BID PRICE 16234.60

 7-2-20


QUOTE REQUEST RESPONSE FORM

Date - 6/25/20
Order Number - 2968 00

GLOBAL ONE INC
dba AMCO TRANSMISSION
2101 W PINE ST
HATTIESBURG MS 39402-2839

Mail To . . . CITY OF HATTIESBURG
PURCHASING DIVISION
220 W FRONT ST. 2ND FLOOR
PO BOX 1898
HATTIESBURG MS 39401

PRINTED NAME

George Chark

SIGNATURE

George Chark DATE 6/23/2020

Phone Number . . 601 5454512

Shipping terms are F.O.B. destination, freight prepaid

PROJECT LINE: REMOVE AND INSTALL AUTOMATIC TRANSMISSION # 19535

ITEM DESCRIPTION

REMOVE AND INSTALL
AUTOMATIC TRANSMISSION, OIL COOLER OR COOLER LINES FLUSH
AND FLUIDS # 19535

Request
Date 06/25/20

QTY 1.00

UM EA

Unit
Price 6,303.28

Extended
Cost 6,303.28

Delivery
Date 7/29/20

Expired
Date 7/29/20

TOTAL BID PRICE 6,303.28

BILL TO: CITY OF HATTIESBURG
 ACCOUNTING DEPT
 PO BOX 1898
 HATTIESBURG, MS 39403-1898
 FAX INVOICE TO: 601-545-6661

CITY OF HATTIESBURG
 PURCHASE ORDER
 THE CITY IS NOT LIABLE FOR SALES TAX ID# 64-6000432

POINT OF CONTACT:

- 07/22/2011
 -
 PO No. 200823
 Req No. 2969

VENDOR MAILING:
 MID SOUTH UNIFORM & SUPPLY INC
 1825 UNIVERSITY BLVD
 JACKSON MS 39204

WADE, DANNY
 MINUTE BOOK # PENDING
 VENDOR # 00001805

(601) 5823311

SHIP TO :
 CITY OF HATTIESBURG
 FIRE DEPT-STATION #1
 810 N MAIN STREET
 HATTIESBURG MS 39401

PROCESSING CODE:

PROJECT LINE: HFD UNIFORMS FOR ALL PERSONNEL

SEND METHOD 1 (601)3733616

Account #	Description	QTY	UM	UNIT COST	TOTAL COST
001160.5350	TRU 24/7 PANTS-NAVY 65/35 R/S	125.00	EA	41.8000	5,225.00
001160.5350	TIE-CLIP ON-18" Reg Lenght 18" or long 20"	24.00	EA	5.0000	120.00
001160.5350	BELT-TROUSER-PLN- Velcro 1 1/2"	20.00	EA	22.7800	455.60
001160.5350	TRI MOUNTAIN SOFT Shell fleece. Includes American Flag on right and sewing department patch provided by HFD on left sleeve.	10.00	EA	56.7400	567.40
001160.5350	NEW DIMENSION LS Shirt-Navy. Horace small or southeastern shirt code3.	25.00	EA	38.2800	957.00

TOTAL CONTRACT AMOUNT NOT TO EXCEED

7,325.00

SUBMIT SEPARATE INVOICES FOR
 EACH ORDER. PREPAY SHIPPING
 CHARGES IF ANY AND ADD TO INVOICE.

THIS PO NUMBER MUST APPEAR
 ON ALL PACKAGES & INVOICES.

FOR CORRECTIONS TO VENDOR
 ADDRESS ABOVE CONTACT ACCOUNTING
 (601) 545-4686.

KERMAE EATON
 CITY CLERK

CITY OF HATTIESBURG
QUOTE REQUEST RESPONSE FORMPage No. 1
Date 7/01/20
Order Number 2969 OQSPECIAL OPS UNIFORMS OF A
6320 SCOTT HAMILTON DR
LITTLE ROCK AR 72209-8536Mail To. . . . CITY OF HATTIESBURG
PURCHASING DIVISION
220 W FRONT ST. 2ND FLOOR
PO BOX 1898
HATTIESBURG MS 39401

PRINTED NAME Daniel A. Tate, Jr.

Phone Number . . 601 5454512

SIGNATURE Daniel A. Tate, Jr. DATE 07/09/20

Shipping terms are F.O.B. destination, freight prepaid

PROJECT LINE: HFD UNIFORMS FOR ALL PERSONNEL

ITEM DESCRIPTION	Request Date	QTY	UM	Unit Price	Extended Cost	Delivery Date	Expired Date
TRU 24/7 PANTS-NAVY 65/35 R/S	06/29/20	125.00	EA	\$49.99	\$6,248.75	per mfr availability usually 30-45 days	
TIE-CLIP ON-18" Reg Length 18" or long 20"	06/29/20	24.00	EA	\$5.50	\$132.00	per mfr availability usually 30-45 days	
BELT-TROUSER-PLN- Velcro 1 1/2"	06/29/20	20.00	EA	\$24.99	\$499.80	per mfr availability usually 30-45 days	
TRI MOUNTAIN SOFT Shell fleece. Includes American Flag on right and sewing department patch provided by HFD on left sleeve.	06/29/20	10.00	EA	\$59.99	\$599.90	per mfr availability usually 30-45 days	
NEW DIMENSION LS Shirt-Navy. Horace small or southeastern shirt code3.	06/29/20	25.00	EA	\$39.99	\$999.75	per mfr availability usually 30-45 days	

TOTAL BID PRICE \$8,480.20

43530

CITY OF HATTIESBURG
QUOTE REQUEST RESPONSE FORMMID SOUTH UNIFORM & SUPPL
1925 UNIVERSITY BLVD
JACKSON MS 39204Page No. 1
Date 7/01/20
Order Number 2969 00Mail To: CITY OF HATTIESBURG
PURCHASING DIVISION
220 W FRONT ST 2ND FLOOR
PO BOX 1898
HATTIESBURG MS 39401

PRINTED NAME: Mark Clay

Phone Number . . 601 5454512

SIGNATURE *Mark Clay* DATE 07/02/20

PROJECT LINE: HFD UNIFORMS FOR ALL PERSONNEL

Shipping terms are F.O.B. destination, freight prepaid

ITEM DESCRIPTION	Request Date	QTY	UM	Unit Price	Extended Cost	Delivery Date	Expired Date
TRU 24/7 PANTS-NAVY 65/85 R/S	06/29/20	125.00	EA	41.80	5225.00	**	12/31/20
TIE-CLIP ON-18" Reg Length 18" or long 20"	06/29/20	24.00	EA	5.00	120.00	**	12/31/20
BELT-TROUSER-PLA- Velcro 1 1/2"	06/29/20	20.00	EA	22.78	455.60	**	12/31/20
TRI MOUNTAIN SOFT Sweil fleece. Includes American flag on right and sewing department patch provided by HFD on left sleeve.	06/29/20	10.00	EA	56.74	567.40	**	12/31/20
NEW DIMENSION LS Shirt-Navy. Horace small or southeastern shirt code3.	06/29/20	25.00	EA	38.28	957.00	**	12/31/20

TOTAL BID PRICE \$7325.00

** Delivery date - Since our suppliers manufacturing plants have been shut down due to Covid19, I am really not sure how to determine the delivery dates. Normally I would say 30 to 60 days at the most but I can't guarantee that right now.

Assad Chap Daytub



BILL TO: CITY OF HATTIESBURG
CITY OF HATTIESBURG
ACCOUNTING DEPT
PO BOX 1898
HATTIESBURG, MS 39403-1898
FAX INVOICE TO: 601-545-6661

CITY OF HATTIESBURG
PURCHASE ORDER
THE CITY IS NOT LIABLE FOR SALES TAX ID# 64-6000432

POINT OF CONTACT:

WAGGONER, ROBIN
MINUTE BOOK #
VENDOR # 00001753

SHIP TO:
CITY OF HATTIESBURG
WATER PLANT #2
900 JAMES STREET
HATTIESBURG MS 39401

Page Date 07/15/2011

PO No. 200682

Req No. 2971

VENDOR MAILING:
PINE BELT CDJR, INC
401 BROADWAY DR
HATTIESBURG MS 39401-6324

PROJECT LINE: TWO NEW RAM QUAD CAB PICK UP TRUCKS

Account # Description QTY UNIT COST TOTAL COST

009672.7450

QUAD CAB PICK UP
SPECIFICATIONS FOR TWO TRUCKS:
- QUAD CAB CHASSIS
- 2WD
- 5.7L V8
- 8-SPEED AUTOMATIC
- WHITE OR GRAY IN EXTERIOR COLOR
- CLOTH OR VINYL SEATS
- 40/20/40 BENCH SEATS

2.00 EA 24,203.0000 48,406.00

PROCESSING CODE:
SEND METHOD 1 (601)5446950

TOTAL CONTRACT AMOUNT NOT TO EXCEED 48,406.00

SUBMIT SEPARATE INVOICES FOR EACH ORDER, PREPAY SHIPPING CHARGES IF ANY AND ADD TO INVOICE.

FOR CORRECTIONS TO VENDOR ADDRESS ABOVE CONTACT ACCOUNTING (601) 545-4686.

KERMAE EATON
CITY CLERK

43530

CITY OF HATTIESBURG
QUOTE REQUEST RESPONSE FORMPINE BELT CDJR, INC
401 BROADWAY DR
HATTIESBURG MS 39401-6324

Mail To . . .

CITY OF HATTIESBURG
PURCHASING DIVISION
220 W FRONT ST. 2ND FLOOR
PO BOX 1898
HATTIESBURG MS 39401

PRINTED NAME

Bitchie Bearden

SIGNATURE

*B Bearden*DATE 7/12/20

Phone Number . . 601 5454512

Shipping terms are F.O.B. destination, freight prepaid

PROJECT LINE: TWO NEW RAM QUAD CAB PICK UP TRUCKS

ITEM DESCRIPTION

QUAD CAB PICK UP
SPECIFICATIONS FOR TWO TRUCKS:

- QUAD CAB CHASSIS
- 2WD
- 5.7L V8
- 8-SPEED AUTOMATIC
- WHITE OR GRAY IN EXTERIOR COLOR
- CLOTH OR VINYL SEATS
- 40/20/40 BENCH SEATS

Request Date	QTY	UM	Unit Price	Extended Cost	Delivery Date	Expired Date
07/01/20	2.00	EA	<u>24,203</u>			

TOTAL BID PRICE

48,406

QUOTE REQUEST RESPONSE FORM

Date - 7/09/20
Order Number : 2971 OQ

BLACKBURN MOTOR COMPANY I
dba BLACKBURN CHRYSLER JE
2135 N FRONTAGE RD
VICKSBURG MS 39180-5182

Mail To : CITY OF HATTIESBURG
PURCHASING DIVISION
220 W FRONT ST. 2ND FLOOR
PO BOX 1898
HATTIESBURG MS 39401

PRINTED NAME: Greg Acorns

Phone Number : 601 5454512

SIGNATURE: [Signature] DATE: 7-13-20

Shipping terms are F.O.B. destination, freight prepaid

PROJECT LINE: TWO NEW RAM QUAD CAB PICK UP TRUCKS

ITEM DESCRIPTION

QUAD CAB PICK UP
SPECIFICATIONS FOR TWO TRUCKS:

- QUAD CAB CHASSIS
- 5.7L V8
- 8-SPEED AUTOMATIC
- WHITE OR GRAY IN EXTERIOR COLOR
- CLOTH OR VINYL SEATS
- 40/20/40 BENCH SEATS

Request Date	QTY	UM	Unit Price	Extended Cost	Delivery Date	Expired Date
07/01/20	2.00	EA	28,800			8-30-20

TOTAL BID PRICE 57,600

BILL TO: CITY OF HATTIESBURG
 ACCOUNTING DEPT
 PO BOX 1898
 HATTIESBURG, MS 39403-1898
 FAX INVOICE TO: 601-545-6661

CITY OF HATTIESBURG
 PURCHASE ORDER
 THE CITY IS NOT LIABLE FOR SALES TAX ID# 64-6000432

POINT OF CONTACT:

PO No. 200718
 Req No. 2974

Page Date 07/16/20

VENDOR MAILING:
 MARK RUSSELL
 dba PERFORMANCE RESCUE
 96 N BRYANT RD
 SUMRALL MS 39482-4379

WADE, DANNY
 MINUTE BOOK # PENDING
 VENDOR # 00089442

(601) 5823311

SHIP TO :
 CITY OF HATTIESBURG
 FIRE DEPT-STATION #1
 810 N MAIN STREET
 HATTIESBURG MS 39401

PROCESSING CODE:

PROJECT LINE: HFD REPLACEMENT RAMS FOR EXTRICATION TOOLS

SEND METHOD 1 (601)7580350

Account #	Description	QTY	UM	UNIT COST	TOTAL COST
001160.5460	M28 VOLT 40" RAM	2.00	EA	6,145.0000	12,290.00
001160.5460	RAM ACCESSORY KIT	2.00	EA	530.0000	1,060.00
001160.5460	FREIGHT/SHIPPING	1.00	EA	150.0000	150.00

TOTAL CONTRACT AMOUNT NOT TO EXCEED 13,500.00

SUBMIT SEPARATE INVOICES FOR EACH ORDER. PREPAY SHIPPING CHARGES IF ANY AND ADD TO INVOICE.

THIS PO NUMBER MUST APPEAR ON ALL PACKAGES & INVOICES.

FOR CORRECTIONS TO VENDOR ADDRESS ABOVE, CONTACT ACCOUNTING (601) 545-4686.

KERMAE EATON
 CITY CLERK

CITY OF HATTIESBURG
QUOTE REQUEST RESPONSE FORMPage No. 1
Date 7/13/20
Order Number 2974 00MARK RUSSELL
dba PERFORMANCE RESCUE
56 N BRYANT RD
SUMRALL MS 39482-4379Mail To: CITY OF HATTIESBURG
PURCHASING DIVISION
220 W FRONT ST. 2ND FLOOR
PO BOX 1898
HATTIESBURG MS 39401PRINTED NAME MARK RUSSELL dba PERFORMANCE RESCUE

Phone Number 601 5454512

SIGNATURE [Signature] DATE 07/14/20

Shipping terms are F.O.B. destination, freight prepaid

PROJECT LINE: HFD REPLACEMENT RAMS FOR EXTRICATION TOOLS

ITEM DESCRIPTION	Request Date	QTY	UM	Unit Price	Extended Cost	Delivery Date	Expired Date
M28 VOLT 40" RAM	07/10/20	2.00	EA	\$ 6,145.00	\$ 12,290.00	30 DAYS FROM PO	9/14/20
RAM ACCESSORY KIT	07/10/20	2.00	EA	\$ 530.00	\$ 1,060.00	30 DAYS FROM P.O.	9/14/20
FREIGHT/SHIPPING	07/10/20	1.00	EA	\$ 150.00	\$ 150.00	30 DAYS	9/14/20

TOTAL BID PRICE \$13,500.00

Assist Chief Gary Ward



QUOTE REQUEST RESPONSE FORM

Date 7/13/20
Order Number 2974 00

GLEN LAWRENCE BAUMFIND
dba MID SOUTH RESCUE
4870 RALEIGH LAGRANGE
COLLIERVILLE TN 38017

CITY OF HATTIESBURG
PURCHASING DIVISION
200 W FRONT ST 2ND FLOOR
BOX 1898
HATTIESBURG MS 39401

Mail To

PRINTED NAME GLEN L. BAUMFIND

Phone Number 601 5454512

SIGNATURE Glen L Baumfind DATE 7-16-20

Shipping terms are F.O.B. destination. freight prepaid

PROJECT LINE: HFD REPLACEMENT RAMS FOR EXTRICATION TOOLS

ITEM DESCRIPTION	Request Date	QTY	UM	Unit Price	Extended Cost	Delivery Date	Expired Date
M28 VOLT 40" RAM	07/10/20	2.00	EA	6345.00	12690.00	8-15	10-15
RAM ACCESSORY KIT	07/10/20	2.00	EA	630.00	1260.00	8-15	10-15
FREIGHT/SHIPPING	07/10/20	1.00	EA	200.00	200.00	8-15	10-15

TOTAL BID PRICE 14,150.00

VENDOR MAILING:
MUNICO CORP
dba TRAFFIC SAFETY WAREHOUSE
PO BOX 1125
DEERFIELD IL 60015-1125

BIVINS, REDONDA
MINUTE BOOK # PENDING
VENDOR # 00111008

SHIP TO :
CITY OF HATTIESBURG
TRAFFIC
125 WALNUT ST
HATTIESBURG MS 39401

PROCESSING CODE:

SEND METHOD 1 (847)9661205

Account #	Description	QTY	UM	UNIT COST	TOTAL COST
001191.5540	RUBBER SPEED HUMP MIDDLE PIECE 35" WX24" LX 2.25" H	144.00	EA	50.0000	7,200.00
001191.5540	RUBBER SPEED HUMP MALE END CAP 35"WX17.5"LX2.25" H	12.00	EA	30.0000	360.00
001191.5540	RUBBER SPEED HUMP FEMALE END CAP 35" WX17.5"LX2.25"H	12.00	EA	30.0000	360.00
001191.5540	REBAR SPIKES FOR SPEED BUMPS/PARKING STOPS SINGLE PIECE - 14" SPIKE & WASHER	984.00	EA	3.0000	2,952.00

SUBMIT SEPARATE INVOICES FOR
EACH ORDER. PREPAY SHIPPING
CHARGES IF ANY AND ADD TO INVOICE.

TOTAL CONTRACT AMOUNT NOT TO EXCEED

10,872.00

FOR CORRECTIONS TO VENDOR
ADDRESS ABOVE, CONTACT ACCOUNTING
(601) 545-4686.

KERMAS EATON
CITY CLERK

TRAFFIC SAFETY WAREHOUSE
P.O. Box 1125
Deerfield, IL 60015
Toll Free (877) 966-1018
Local (847) 966-1018
Fax (847) 966-1205
www.trafficafetywarehouse.com

Quotation # 76961A

Quotation Date 07/14/20

Page 1

Bill To

Redonde Bivens
City Of Hattiesburg
P O Box 1898 - Acct Dept
Hattiesburg, MS 39403

Ship To
City Of Hattiesburg - Traffic
125 Walnut St
P.O. #
Hattiesburg, MS 39401

Customer No.

69369

Sales I.D.

/MM

P.O. #

Source

01/

Terms

QUOTATION, EXP 08/12/20

Phone Number

(601) 545-4627

Pkg

0

Ship Via

LTL

valid for 15 days. Freight is curbside only and does not

include a lift gate or special services. Receiver must unload

Estimated lead time is 5 to 10 days to ship ARO from IL

Qty	B/O	Ship	Item #	Description	Un. Price	Ds	Amount
-----	-----	------	--------	-------------	-----------	----	--------

144			SH	Rubber Speed Hump	50.0000	--	7200.00
36			SH	Middle Piece 35" W x 24" L x 2.25" H			
12			SH	Rubber Speed Hump	30.0000	--	360.00
ECM			SH	Male End Cap 35" W x 17.5" L x 2.25" H			
12			SH	Rubber Speed Hump	30.0000	--	360.00
ECF			SH	Rubber Speed Hump			
12			SH	Female End Cap 35" W x 17.5" L x 2.25" H	30.0000	--	360.00
984			XASPHALT	Rebar Spikes for Speed Bumps/Parking Stops	3.0000	--	2952.00
				Single Piece - 14" Spike & Washer			

MERCHANDISE QUOTATION TOTAL \$ 10872.00
QUOTATION TOTAL \$ 10872.00



[Handwritten signature]

CITY OF HATTIESBURG
QUOTE REQUEST RESPONSE FORM

Page No. 1
 Date 7/14/20
 Order Number 2975 00

TRANSAGE INC
 1225 SPECTRUM DR STE 100
 LAWRENCEVILLE GA 30043-57

Mail To CITY OF HATTIESBURG
 PURCHASING DIVISION
 220 W FRONT ST. 2ND FLOOR
 PO BOX 1898
 HATTIESBURG MS 39401

PRINTED NAME Kia Morgan

Phone Number . . . 601 . . 5454512

SIGNATURE K Morgan DATE 7-14-20

Shipping terms are F.O.B. destination, freight prepaid

PROJECT LINE: SPEED HUMPS

ITEM DESCRIPTION	Request Date	QTY	UM	Unit Price	Extended Cost	Delivery Date	Expired Date
RUBBER SPEED HUMP MIDDLE PIECE 35" WX24" LX 2.25" H	07/14/20	144.00	EA	15.11	10,855.84	4-6 weeks	
RUBBER SPEED HUMP MALE END CAP 35" WX17.5" LX2.25" H	07/14/20	12.00	EA	61.72	740.64	4-6 weeks	
RUBBER SPEED HUMP FEMALE END CAP 35" WX17.5" LX2.25" H	07/14/20	12.00	EA	61.72	740.64	4-6 weeks	
REAR SPIKES FOR SPEED BUMPS/PARKING STOPS SINGLE PIECE - 14" SPIKE & WASHER	07/14/20	994.00	EA	5.09	5,088.56	4-6 weeks	

TOTAL BID PRICE ~~17,427.54~~
 17,305.68

CITY OF HATTIESBURG
UNADVERTISED BID RESULTS

OQ# 2975

ITEM SPEED HUMPS

BID #1

WINNING BID

COMPANY TRAFFIC SAFETY WAREHOUSE

BID

AMOUNT \$10,872.00

BID #2

COMPANY TRANSafe INC

BID

AMOUNT \$17,305.68

BID #3

COMPANY _____

BID

AMOUNT _____

BID #4

COMPANY _____

BID

AMOUNT _____

THANK YOU FOR SENDING A QUOTE FOR THIS PROJECT.



Sylvester London, DIVISION MANAGER

BILL TO: CITY OF HATTIESBURG
ACCOUNTING DEPT
PO BOX 1898
HATTIESBURG, MS 39403-1898
FAX INVOICE TO: 601-545-6661

CITY OF HATTIESBURG
PURCHASE ORDER
THE CITY IS NOT LIABLE FOR SALES TAX ID# 64-60000432

POINT OF CONTACT:

Page Date 07/24/201

VENDOR MAILING:
DOLEAC ELECTRIC CO INC
PO BOX 1936
HATTIESBURG MS 39403-1936

LONDON, SYLVESTER
VENDOR # 00012220

(601) 5454512

SHIP TO :
CITY OF HATTIESBURG
ENGINEERING/PUBLIC SERVICES
212 WEST FRONT STREET-CENTENNIAL BLDG
HATTIESBURG MS 39401

PROCESSING CODE:

PROJECT LINE: INSTALL AND MOUNT CAMERAS

SEND METHOD 1 (601)5824121

Account #	Description	QTY	UM	UNIT COST	TOTAL COST
-----------	-------------	-----	----	-----------	------------

001402.6049

INSTALL/MT CAMERAS
CONTRACTOR SHALL PROVIDE ALL COSTS AND MATERIALS TO INSTALL
AND MOUNT CAMERAS. CONTRACTOR SHALL INCLUDE IN HIS BID
THE POLE AND INSTALLATION OF SAID POLE, METER BOX, MOUNTING
HARDWARE AND BRACKET FOR THE CAMERAS AND ANY OTHER ITEMS
NEEDED TO INSTALL THE POLE MOUNTED CAMERA. THE MAX MOUNTING
HEIGHT OF THE CAMERA WILL BE 20". THE CITY WILL PROVIDE THE
CAMERAS AND THE MOUNTING ARMS. CONTRACTOR SHALL PROVIDE ALL
OTHER MATERIALS AND EQUIPMENT. CONTRACTOR SHALL PROVIDE A
PRICE TO INSTALL 20 CAMERAS AT 20 DIFFERENT LOCATIONS.
CAMERAS SHALL BE INSTALLED BY FRIDAY, SEPTEMBER 25, 2020.
THE POLICE DEPARTMENT WILL PROVIDE LOCATIONS FOR ALL
CAMERAS.

EA	25,990.0000	1.00	EA	25,990.00
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TOTAL CONTRACT AMOUNT NOT TO EXCEED

25,990.00

SUBMIT SEPARATE INVOICES FOR
EACH ORDER. PREPAY SHIPPING
CHARGES IF ANY AND ADD TO INVOICE.

THIS PO NUMBER MUST APPEAR
ON ALL PACKAGES & INVOICES.

FOR CORRECTIONS TO VENDOR
ADDRESS ABOVE, CONTACT ACCOUNTING
(601) 545-4686.

KERMAE EATON
CITY CLERK

Page No. 1
Date 7/17/20
Order Number 2977 00

CITY OF HATTIESBURG
PURCHASING DIVISION
220 W FRONT ST. 2ND FLOOR
PO BOX 1898
HATTIESBURG MS 39401

Phone Number : 601 5454512

Shipping terms are F.O.B. destination, freight prepaid

Shipping terms are F.O.B. destination, freight prepaid

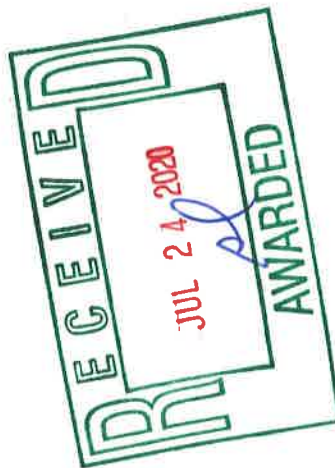
ITEM DESCRIPTION	Request Date	QTY	UM	Unit Price	Extended Cost	Delivery Date	Expired Date
INSTRUMENT AMPLIFERS CUTAW FOR SHIRT PROVIDE ALL PARTS AND MATERIALS TO INSTANT	07/17/20	1.00	EA	\$25,990.00	\$25,990.00	BEFORE 9/25/20	9/4/20

[illegible]

TOTAL BID PRICE \$25,990.00

James H. Hester

Lamar Rutland, Director of Engineering



CITY OF HATTIESBURG
QUOTE REQUEST RESPONSE FORM

Page No. 1
Date 7/17/20
Order Number 2977 00

CHAIN ELECTRIC COMPANY
PO BOX 2058
HATTIESBURG MS 39403-2058

Mail To. CITY OF HATTIESBURG
PURCHASING DIVISION
220 W FRONT ST. 2ND FLOOR
PO BOX 1898
HATTIESBURG MS 39401

PRINTED NAME Harvey Simmons

Phone Number 601 5454512

SIGNATURE Mary Sore

DATE 7-24-2020 Shipping terms are F.O.B. destination, freight prepaid

PROJECT LINE: INSTALL AND MOUNT CAMERAS

ITEM DESCRIPTION	Request Date	QTY	UM	Unit Price	Extended Cost	Delivery Date	Expired Date
INSTALL/MT CAMERAS CONTRACTOR SHALL PROVIDE ALL COSTS AND MATERIALS TO INSTALL AND MOUNT CAMERAS. CONTRACTOR SHALL INCLUDE IN HIS BID THE POLE AND INSTALLATION OF SAID POLE, METER BOX, MOUNTING HARDWARE AND BRACKET FOR THE CAMERAS AND ANY OTHER ITEMS NEEDED TO INSTALL THE POLE MOUNTED CAMERA. THE MAX MOUNTING HEIGHT OF THE CAMERA WILL BE 20'. THE CITY WILL PROVIDE THE CAMERAS AND THE MOUNTING ARMS. CONTRACTOR SHALL PROVIDE ALL OTHER MATERIALS AND EQUIPMENT. CONTRACTOR SHALL PROVIDE A PRICE TO INSTALL 20 CAMERAS AT 20 DIFFERENT LOCATIONS. CAMERAS SHALL BE INSTALLED BY FRIDAY, SEPTEMBER 25, 2020. THE POLICE DEPARTMENT WILL PROVIDE LOCATIONS FOR ALL CAMERAS.	07/17/20	1.00	EA	<u>\$37,800.00</u>	<u>\$37,800.00</u>	<u>9-25-20</u>	<u>7-31-20</u>

TOTAL BID PRICE \$37,800.00

SUCCESSFUL BID/ OTHER BID	BID RECEIVED	BID AWARDED	BID AMOUNT	PURCHASE ORDER	ITEM DESCRIPTION
COURTESY MOTORS INC AAMCO TRANSMISSION (PINE ST)	06/29/20 06/29/20	07/07/20 07/07/20	6,234.60 6,303.28	200475	REMOVE AND INSTALL AUTOMATIC TRANSMISSION #
TRAFFIC SAFETY WAREHOUSE TRANSAFE INC	07/14/20 07/14/20	07/14/20 07/14/20	10,872.00 17,305.68	200660	SPEED HUMPS
PINE BELT CDJR, INC (MCMULLAN EQUIPMENT) BLACKBURN MOTOR COMPANY INC	07/02/20 07/13/20	07/15/20 07/15/20	48,406.00 57,600.00	200682	TWO NEW RAM QUAD CAB PICK UP TRUCKS
PERFORMANCE RESCUE MID SOUTH RESCUE	07/14/20 07/16/20	07/16/20 07/16/20	13,500.00 14,150.00	200718	HFD REPLACEMENT RAMS FOR EXTRICATION TOOLS
SULLIVAN, B W BLDG CONTRACTOR INC HUB CITY CONSTRUCTION INC	07/14/20 07/14/20	07/22/20 07/21/20	36,700.00 38,900.00	* 200806	HBG ARTS CENTER REHAB OF 2 BATHROOMS & HALL
MID SOUTH UNIFORM & SUPPLY INC SPECIAL OPS UNIFORMS OF ARKANSAS INC	07/02/20 07/09/20	07/22/20 07/22/20	7,325.00 8,480.20	200823	HFD UNIFORMS FOR ALL PERSONNEL
DOLEAC ELECTRIC CO INC CHAIN ELECTRIC COMPANY	07/24/20 07/20/20	07/24/20 07/24/20	25,990.00 37,800.00	200890	INSTALL AND MOUNT CAMERAS

* - Approved at 7/21/20 council meeting (2020-487)



Memorandum

To: Mayor Toby Barker and Members of City Council

From:

cc:

Date: Tuesday, August 4, 2020

Re: Approve and authorize publication of a Request for Proposals for service related to the provision of Job Access Reverse Commute services for Hub City Transit.
File Number: 2020-503
Minute Book #

Summary

RFP for the provision of Job Access Reverse Commute type services for Hub City Transit.

Recommendation Statement

I recommend placing this item on the council agenda to consider service providers for JARC services.

Please place this on the August 4, 2020 City Council meeting for consideration.



To be published in the *The Hattiesburg Post* and the *Clarion Ledger* in the Thursday, August 6, 2020 and Thursday, August 13, 2020 in the Classified Ad Section Block Style on behalf of the City of Hattiesburg, Mississippi.

Please prepare a ***PROOF OF PUBLICATION*** and remit to the City Clerk, City of Hattiesburg, P.O. Box 1898, Hattiesburg, Mississippi 39403-1898. **TEAR SHEETS ARE NOT ACCEPTABLE AS PROOFS.**

NOTICE TO BIDDERS

NOTICE is hereby given that the Mayor and Council of the City of Hattiesburg, Mississippi will receive sealed proposals/bids until 10:00 a.m., Thursday, September 3, 2020 in the City Clerk's Office in the City Hall of said City furnishing the City's requirements of the following items for Hub City Transit, to-wit:

Job Access Reverse Commute (JARC) Transportation Services

The above shall propose/bid upon and deliver as per detailed specifications on file in the Office of the City Clerk, P.O. Box 1898, 200 Forrest Street, Hattiesburg, Mississippi, 39403-1898, (601) 545-4552 which may be obtained upon request and on line at www.hattiesburgms.com/mpo.

Each PROPOSAL/BID must be received in a sealed envelope which is marked in the lower left-hand corner with the word "PROPOSAL/BID" and the NAME OF THE ITEM, which is "JARC Transportation Services" and the DATE OF BID OPENING.

The best bid received will be accepted, subject to the provisions of Section 31-7-13 of the Mississippi Code of the Mississippi Code of 1972, Annotated as Amended, and other applicable State law; but the Council reserves the right to reject any or all bids received and to waive informalities.

PUBLISHED by Order of the Council on this the ____ day of _____, 2020

CITY OF HATTIESBURG, MISSISSIPPI

CITY CLERK

(S E A L)

Published 8/06/20 & 8/13/20



**Request for Proposals
for
Job Access Reverse Commute (JARC) Transportation Services**

Issue Date: August 4, 2020

Schedule: Pre-Bid Meeting: August 25, 2020 at 10:00 a.m. (CDST)

Open Bids: September 3, 2020 10:00 a.m. (CDST)

Submission Instructions:

One (1) original plus Three (3) copies (4 copies total) & one electronic copy as a pdf on USB storage device of the submittal must be returned in a sealed envelope, and be clearly marked "JARC RFP"

Contact: Questions or comments regarding the RFP may be submitted in writing until 5:00 p.m. 25th day of August, 2020 should be directed to:

Calvin Russell
Hattiesburg-Petal-Forrest-Lamar Metropolitan Planning Organization
P.O. Box 1898
Hattiesburg, MS 39401
Fax: (601) 545-6327
or e-mail: mpo@hattiesburgms.com

**Email is preferred*



Submission Instructions:

One (1) original plus Three (3) copies (4 copies total) of the submittal must be returned in a sealed envelope, and be clearly marked “**JARC RFP.**”

SUBMITTALS SHOULD BE MAILED OR HAND DELIVERED TO:

Mailing Address:

City of Hattiesburg, Mississippi
Office of City Clerk
P.O. Box 1898
Hattiesburg, MS 39403-1898

Delivery Address:

City of Hattiesburg, Mississippi
Office of City Clerk
200 Forrest St
Hattiesburg, MS 39401

PROPOSAL DEADLINE: September 3, 2020 10:00 a.m. (CDST)

No proposal shall be received by facsimile or via electronic mail.

Anticipated Contract Term: October 1, 2020 – December 31, 2022

PRE-PROPOSAL CONFERENCE will be held at

10:00 A.M. On 25th day, August, 2020

City of Hattiesburg Council Chambers
2nd Floor City Hall/200 Forrest Street
Hattiesburg, MS 39401

The purpose of this conference will be to review the attached specifications for **JARC PASSENGER TRANSPORTATION SERVICES** to be provided to the Urbanized area within and outside the Hub City Transit service area, on behalf of the City of Hattiesburg Department of Urban Development.

You are encouraged to attend or to be represented at the Pre-Proposal Conference if you plan to submit a proposal. Further details of the COH’s requirements will be addressed at this time.

*Questions or comments regarding the RFP may be submitted in writing until 5:00 p.m. **25th day of August, 2020** should be directed to:

Calvin Russell
Hattiesburg-Petal-Forrest-Lamar Metropolitan Planning Organization
P.O. Box 1898
Hattiesburg, MS 39401
Fax: (601) 545-6327
or e-mail: mpo@hattiesburgms.com

**Email is preferred*

Proposals will be received until 10:00 a.m. September 3, 2020



**CITY OF HATTIESBURG (COH) REQUEST FOR PROPOSALS
JOB ACCESS REVERSE COMMUTE PASSENGER TRANSPORTATION SERVICES**

**TRANSMITTAL LETTER
FY 2020**

It is certified that this proposal is made in good faith and without collusion with any other person bidding on this contract or with any officer or employee of the City of Hattiesburg.

The City of Hattiesburg operates its programs and services in accordance with Title VI of the Civil Rights Act, as amended, 42 U.S.C. § 2000d, section 303 of the Age Discrimination Act of 1975, as amended, 42 U.S.C. § 6102, section 202 of the Americans with Disabilities Act of 1990, 42 U.S.C. § 12132, and Federal transit law at 49 U.S.C. § 5332, the Contractor agrees that it will not discriminate against any employee or applicant for employment because of race, color, creed, national origin, sex, age, or disability. In addition, the Contractor agrees to comply with applicable Federal implementing regulations and other implementing requirements FTA may issue.

COMPANY (as identified with the Office of Secretary
of State of Mississippi)

AUTHORIZED SIGNATURE

TYPED NAME AND TITLE

FEDERAL IDENTIFICATION #

MAILING ADDRESS (P.O. BOX OR STREET)

TELEPHONE NUMBER

CITY, STATE AND ZIP CODE

FAX NUMBER

E-MAIL ADDRESS



REQUEST FOR PROPOSAL

ISSUING AGENCY:

The City of Hattiesburg, Department of Urban Development

SUBJECT: Job Access Reverse Commute (JARC) Passenger Transportation Services

DUE DATE:

Sealed proposals, including One (1) original plus Three (3) copies (4 copies total) & one electronic copy as a pdf on USB storage device must be received not later than **10:00 A.M. Thursday, September 3, 2020.**

Mail proposal to:

City of Hattiesburg, Mississippi
Office of City Clerk
P.O. Box 1898
Hattiesburg, MS 39403-1898

Hand deliver proposal to:

City of Hattiesburg, Mississippi
Office of City Clerk
200 Forrest St
Hattiesburg, MS 39401

With **“JARC RFP”** indicated on envelope. Late submittals will not be considered.

1.0 GENERAL INFORMATION

1.1 RFP PURPOSE

This Request for Proposal (RFP) provides interested applicants (Applicant/Provider) with the information necessary to prepare and submit proposals to the COH. This document sets forth the requirements, expectations, and process that applicants must follow in order to be considered for a Contract with the COH. Applicants must describe all activities that are a part of the services to be provided. No capital purchases are included in this RFP. The COH may award one or more contracts for the services specified herein. The COH is seeking proposals from qualified transportation providers for rendering single and shared-passenger transportation services for individuals authorized by the City of Hattiesburg for related transportation services.

1.2 AUTHORITY



Proposals in response to this RFP and any Contracts awarded in connection with this RFP shall be governed in accordance with all applicable federal, state, and local laws and regulations.

1.3 SCOPE OF SERVICES

Demand-Response and Standing Order transportation services for individuals authorized by the City of Hattiesburg. A Standing Order Trip is defined as a trip to and from the same location at the same time on the same day(s) of the week. A Demand- Response Trip is defined as any trip not considered a Standing Order Trip. Advance reservations may be required with either types of service. Round Trips will include origins and destinations within the city limits of Hattiesburg, MS and outside of the city limits, but within the Hattiesburg Urbanized area. Trips may require child day care transportation trips in conjunction with parent work trips. Some may require a wheelchair lift-equipped vehicle and that type of service must be provided; trips in which such equipment is required shall be billed at the same rate as trips not requiring such equipment.

Service Times: Providers must be available various hours for services Monday through Friday and Weekends. Applicants may submit proposals for any number of one-way passenger trips for any or all of the Service Areas described herein, up to the estimated number of trips specified.

1.4 SERVICE REQUIREMENTS

A. PROVIDER VEHICLES

1. The Provider shall use only vehicles owned or leased and operated by the Provider for provision of services and shall provide sufficient vehicle back-up capacity in case of breakdowns.
2. All vehicles operating under a Contract with the COH must comply with or exceed the safety, mechanical, and operating standards of the State of Mississippi and/or the City of Hattiesburg and be maintained under a preventative maintenance program.
3. All vehicles must provide appropriate safety equipment, first aid kit, blood borne pathogens, triangles, etc.
4. All vehicles must be clearly marked with the Provider's name as to allow passengers to easily identify its vehicles.
5. Provider is expected to perform pre-trip inspections of vehicles to be used under a Contract with the COH; vehicles failing the daily inspection shall not be used until deficiencies are corrected.
6. The Provider shall provide a means of communications between and among its



dispatchers and vehicle drivers.

7. SERVICE PROVIDERS under contract to COH shall comply with the U.S.DOT Drug and Alcohol Testing Regulations 49 CFR Part 40 and Part 655. This also includes all drivers subcontracted by any SERVICE PROVIDER.

Drivers and other safety sensitive employees shall successfully pass an approved pre-employment drug and alcohol screening prior to being employed on active service.

B. PROVIDER DRIVERS

All drivers employed or subcontracted by the Provider:

1. Shall maintain a valid appropriate Mississippi driver's license,
2. Shall have a satisfactory criminal records background check conducted by the Provider,
3. Must be trained to drive vehicles that serve public transportation to include but not limited to defensive and safe driving. Provider shall maintain written documentation of such training provided to its drivers,
4. Shall not smoke or use smokeless tobacco products while transporting passengers,
5. Shall be neat and clean in appearance when transporting passengers and do not utilize cell phones while transporting.

C. OTHER PROVIDER SERVICE REQUIREMENTS

1. Provider must ensure the maintenance of sufficient staff, facilities and equipment to deliver the agreed upon services.
2. Provider must attend scheduled or requested meetings with COH to discuss problems, procedures and/or needed adjustments to service delivery.
3. Provider must be certified by the Mississippi Office of the Secretary of State (non-profit providers are eligible but must be listed with the Office of the Secretary of State with such).
4. Provider's transit vehicle shall pick up and discharge passengers on the curb in front of their home or destination. The driver shall be responsible for assisting the passenger to ensure child safety-seats are properly secured in the vehicles before operating vehicles with child passengers under the age of 8 years (or as required by law).



5. Provider's transit vehicle shall pick up passengers from origin pick up location within 15 minutes of scheduled pick up time and must pick up return trip passengers within 1 hour of notification that the passenger is ready for the return trip. The Provider must provide proper restraints for disabled passengers.
6. Children under the age of 8 years (or as required by law) shall be transported in a size and weight appropriate child safety seat that is provided by the child's Parent or Guardians. The Service Provider shall not be expected to provide such safety seats but must refuse to transport a child until such time the appropriate safety seat is provided.
7. Provider shall notify the COH by telephone within one-half hour and report in writing within 24 hours of the below listed occurrences:
 - a) A collision between Provider's vehicle in which a COH client is a passenger and another vehicle, person or object;
 - b) Any passenger complaint, accident, or illness while being transported under a Contract between Provider and the COH.
8. Providers must report all 'no-shows' and "change of schedules" on a monthly basis.
9. Provider's driver shall wait for an assigned passenger for a maximum of five (5) minutes at the pick-up location before leaving the pick-up location and reporting the 'no-show trip to the COH.
10. The passenger shall pay ½ of the fare to be collected by the provider.
11. Every effort must be made by Provider to provide transportation for JARC related activities during inclement weather.
12. The Provider, employees of the Provider, or subcontractors of the Provider shall be subject to the confidentiality laws of the State of Mississippi.
13. Provider program records and documentation must be open to COH, the Mississippi Department of Transportation (MDOT), and the Federal Transit Administration (FTA) personnel to monitor for state and federal compliance.
14. The Provider will be responsible for the authorization of passengers eligible for the JARC program. As follows:
 - a) Written authorization shall include passenger name, phone number if available, trip origin and destination address, scheduled pick up and return dates/times, number of infants being transported, and any special instructions.
 - b) Shall request transportation services no later than 3:00 PM on the day before a requested trip except in extreme circumstances.



c) Shall enforce its Transportation “No Show” policy, which includes a loss of transportation services for missing 2 or more scheduled trips, failure to give 24 hours’ notice of cancellation for a scheduled trip, and unruly behavior.

1.5 PROPOSAL CONTENT and CRITERIA

All materials submitted in response to this proposal will become the property of COH. Responses to this RFP must correlate with the alphanumeric characters in the RFP. Each item in the RFP should be addressed in Applicant’s proposal. An original and three (3) copies & one electronic copy as a pdf on USB storage device of the complete proposal for this contract must be submitted in a sealed envelope and must contain the following:

1. A transmittal letter signed and dated by an individual authorized to bind the bidder legally must accompany each proposal. Evidence must be submitted showing the individual's authority to bind the bidder. The transmittal letter must bear the name of the firm.
2. A cover sheet that includes the applicant’s identification information including business mailing address, phone and fax numbers, person(s) to be contacted, and Federal Tax ID Number.
3. A brief (not to exceed 5 double-spaced pages) narrative that describes:
 - a) A history and overview of the Applicant agency
 - b) Number and location of local and headquarter offices
 - c) Agency’s experience in providing services requested
 - d) Agency’s mediation procedures for customer complains
 - e) Year, manufacture/model, & seating capacity of any Agency vehicles to be used; include how many are equipped with wheelchair lift.
4. Copy of last fiscal year audit. If the provider is a new firm, documents from the providers financial institution and/or accountant showing the company’s financial stability.
5. The names of three references, each including a specific contact name and phone number. References should be able to attest to the ability of applicant to provide the services requested. No COH employees may be used as references.
7. Other information that a bidder believes to be pertinent but not specifically requested elsewhere in this Request for Proposal.
6. The proposal must be typed in a 12-point font. The proposal should be organized in accordance with the selection criteria noted in Section 5.0.

Proposals not in compliance with these requirements or submitted after the deadline will not be considered under the review process.



1.6 TERM OF CONTRACT

The contract term shall begin upon signatories and end December 30, 2022.

1.7 PAYMENT

Billing to COH will be on a monthly basis. Provider's monthly invoice shall be accompanied by a transportation log that contains:

- | | |
|--|--|
| a) Authorized passenger names | f) Trip Cost |
| b) Pickup and Destination street address | g) Passenger Fair paid |
| c) Date of trips | h) Discount or Reduction per agreement |
| d) Total monthly miles | i) Amount due from COH |
| e) Total monthly hours | |

Following contract approval, the COH will pay all invoices for documented fees and charges within thirty (30) days of receipt of Provider's invoices.

1.8 SCHEDULE OF ACTIVITIES

The events leading to the consideration of an award of a contract associated with this RFP are as follows:

Publish Notices: Request for Proposals:	August 6, 2020 & August 13, 2020
Bidders' Conference:	10:00 a.m. 25 th day, August, 2020
Proposals Due:	10:00 a.m. 3 rd day, September, 2020
Earliest Review of Proposals:	3 rd day, September, 2020
*Determine Bid(s) Recommendation:	22 th day September 2020
Commence Services:	1st day, October, 2020

*All applicants will be notified of bid recommendations after this date. Award notices to successful applicants will be tentative pending approval by the Mayor and City Council and MDOT if required.

1.9 PROPOSAL DEADLINE

All proposals must be received by 10:00 a.m. the 3rd day, September, 2020 as follows:

By Mail:

City of Hattiesburg, Mississippi
Office of City Clerk
P.O. Box 1898
Hattiesburg, MS 39403-1898

By Hand:

City of Hattiesburg, Mississippi
Office of City Clerk
200 Forrest St
Hattiesburg, MS 39401



1.10 BIDDERS CONFERENCE

All potential applicants are encouraged to attend a Bidders conference to be held beginning **at 10:00 A.M. On 25th day, August, 2020** in the City of Hattiesburg Council Chambers, 2nd Floor City Hall, 200 Forrest Street, Hattiesburg, MS 39401. The purpose of this conference is to answer questions about this RFP.

2.0 ADMINISTRATIVE REQUIREMENTS

2.1 SOLE POINT OF CONTACT

No questions regarding this RFP will be answered by MPO staff. Questions concerning this RFP should be provided in writing prior to 5:00 PM 25th day, August, 2020 and directed to:

Calvin Russell
Hattiesburg-Petal-Forrest-Lamar Metropolitan Planning Organization
P.O. Box 1898
Hattiesburg, MS 39401
Fax: (601) 545-6327
or e-mail: mpo@hattiesburgms.com

**Email is preferred*

2.2 RESPONSE EXPENSE

The COH assumes no liability for expenses incurred by Providers resulting from response to this Request for Proposal.

2.3 COMPENSATION TO THE SELECTED BIDDER

The selected bidder will be compensated for providing the specified services at the rates, terms, and conditions established in the signed contract.

3.0 INFORMATION REQUIRED FROM THE BIDDER

3.1 BIDDER'S QUALIFICATIONS

The proposal must contain any documents and other information the bidder deems necessary to demonstrate fully its qualifications and allow the COH to evaluate its ability to provide the service.



3.2 SUBCONTRACTING

The selected Providers shall not subcontract any part of the contracted services after award of the contract without written approval of COH. The selected Providers will require all subcontractors to comply with all provisions herein. Notwithstanding, the selected Providers will be held liable for compliance with all duties and functions required by the contract, whether performed by the Provider or an approved subcontractor.

4.0 INSURANCE REQUIREMENTS

The Provider shall maintain for the duration of a contract, at its sole expense, the following insurance coverage:

4.1 COMMERCIAL LIABILITY INSURANCE

The Provider shall:

- a) Maintain insurance in compliance with the Mississippi Department Of Transportation Household Goods And Passenger Carriers Certificate Of Convenience And Necessity, Intrastate Guidelines (Attachment A). Such insurance shall name COH, its officials, officers, and employees as insured, with respect to performance of the services of this contract. The coverage shall contain no special limitations on the scope of protection afforded to the above listed insurers.
- b) Shall be primary with respect to insurance or self-insured retention programs covering COH, its officials, officers, and employees.

4.2 BUSINESS AUTOMOBILE LIABILITY INSURANCE

The Provider shall maintain business automobile liability insurance or equivalent form with a limit of not less than \$1,500,000 each accident. Such insurance shall include coverage for owned, hired, and non-owned automobiles used to provide services under this Agreement.

4.3 WORKERS' COMPENSATION AND EMPLOYERS LIABILITY INSURANCE

The Provider shall maintain workers' compensation insurance with the State of Mississippi statutory limits and employers' liability insurance with limits of not less than \$100,000 each accident.



4.4 OTHER INSURANCE REQUIREMENTS

The Provider shall:

- a) Prior to commencement of services, furnish the COH with properly executed certificates of insurance which shall clearly evidence all insurance required in this section, and provide that such insurance shall not be cancelled, allowed to expire, or be materially reduced in coverage except on 30 days' prior notice to the COH at: COH Attn: MPO Division, P.O. Box 1898 or 200 Forrest St, Hattiesburg, Ms. 39403-1898
- b) Provide certified copies of endorsements and policies, if requested by COH, in lieu of or in addition to certificates of insurance.
- c) Replace certificates, policies, and endorsements for any such insurance that expires prior to the completion of services under this Agreement.
- d) Maintain such insurance with insurers authorized to do business in Mississippi and having A.M. Best Company ratings of not less than A. Any alternatives to this requirement shall require written approval of COH.
- e) A contract must not be executed without a properly executed certificate of insurance evidencing all required coverage, including evidence of required additional insured.

BID REQUIREMENT

A certificate of insurance must be submitted with each bid. This certificate may be a sample. However, a contract will not be executed without a properly executed certificate of insurance evidencing all required coverages, including evidence of required additional insurance.

5.0 DETERMINATION OF SUCCESSFUL BIDDER(S)

On or before 22th day of September 2020 the COH expects to select Provider(s) to provide the specified services. In awarding contract(s) for this service, the COH will determine in its sole judgment the proposal(s) which is/are the most advantageous to the COH, considering the price, performance, and all other factors listed in the RFP.

The proposal will be rated on the following criteria:

- ☐ Applicant's ability to best meet the criteria set forth in this RFP
- ☐ Cost-effectiveness
- ☐ Agency's experience in providing services

The Applicant(s) whose combination of these criteria is/are deemed to be in the best interest of the COH will be selected as the successful Applicant(s). The COH reserves the unqualified right to reject any or all bids.

6.0 CONDITIONS



6.1 BINDING CONTRACT/MODIFICATION OR WITHDRAWAL OF PROPOSALS

A proposal in response to the RFP shall remain available for acceptance for a period of ninety (90) days from the bid opening date.

6.2 INDEPENDENT PRICE DETERMINATION

By submission of a proposal, the Applicant certifies the following:

- a. Prices in the proposal were developed independently, without consultation, communication, or agreement for the purpose of restricting competition, as to any matter relating to such prices with any other Providers or with any competitor;
- b. Unless otherwise required by law, prices were not knowingly disclosed by the Applicant to others and will not knowingly be disclosed by the Applicant prior to bid opening; and
- c. No attempt has been made or will be made by the Applicant to induce any other person or firm to submit a proposal for the purpose of restricting competition.

6.3 DISCLAIMER

A summary of JARC trips over the prior three months are available for review upon request to mpo@hattiesburgms.com, which may serve well in understanding past demands of the program.

All statistical and fiscal information contained in this RFP and its appendices, including amendments and modifications thereto, reflect the best and most accurate information available to the COH at the time of RFP preparation but are not to be construed as a guarantee of future activities.

6.4 TERMINATION

The contract will be subject to termination under any of the following conditions:

- a. Upon Notice: The COH or the selected Provider may terminate the contract at any time with a thirty (30) day prior written notice to the other party.
- b. By the COH For Cause Without Notice: If the selected Provider fails to perform its obligation in a timely manner in accordance with the requirements of the contract.
- c. Failure of COH To Pay Without Notice: The contract may be terminated by the selected Provider(s) upon failure of the COH to make appropriate payments for services duly provided and accepted by the COH, if payment is more than thirty (30) days overdue.



6.5 REQUESTING ADDITIONAL INFORMATION

The COH reserves the right to request additional data, information, oral discussion, or presentation to support any written proposal or to clarify any aspect of any proposal.



Understanding of RFP Procedures, Terms and Conditions*

****(To be returned with proposal submission)***

**Invitation to Submit Proposals
City of Hattiesburg, Mississippi**

I acknowledge I have read and understand all procedures and requirements of the above referenced RFP and have complied fully with the general terms and conditions outlined in the RFP.

Contractor: _____

Representative's Signature: _____

Representative's Printed Name: _____

Date: _____



Attachment A

MISSISSIPPI DEPARTMENT OF TRANSPORTATION HOUSEHOLD GOODS and PASSENGER CARRIERS CERTIFICATE OF CONVENIENCE and NECESSITY

Intrastate Guidelines

The following are the guidelines for applying for a Certificate of Convenience and Necessity.

In order to apply for a Certificate of Convenience and Necessity, a letter of application must be sent to the Mississippi Department of Transportation containing the following information:

1. The name and address of the applicant, and if the applicant is a corporation, the names and addresses of its principal officers.
2. The public highway or highways over which, and cities, towns or villages between which and the route or routes or the territory within which it proposes to operate; in case of irregular route operation, the cities, towns or villages to be served and the territory to be served.
3. The kind of transportation, whether passenger or property, or both, together with a full and complete description of the character of the vehicle or vehicles to be used, including the seating capacity of any vehicle to be used for passenger traffic, and the weight of the vehicle or vehicle to be used.
4. A complete description of the property proposed to be devoted to the public service.
5. Detailed statement showing the assets and liabilities of such applicant; if the applicant is a corporation, such statement shall be sworn to by an executive officer of the applicant.
6. Proof satisfactory to the commission that the applicant will be able immediately upon obtaining a certificate to comply with the laws respecting public liability property damage and cargo insurance or bond.
7. A statement of the existing carriers serving the route or territory proposed to be served and who will be affected by the proposed service.
8. Any other additional information which the commission by order may require.



Carriers desiring to transport household goods and passengers in the State of Mississippi must complete the application packet and submit it to the Mississippi Department of Transportation (MDOT).

In order to process your application, you **must** complete the entire packet:

1. Application Form (USDOT/MC #'s)

- a. Complete all sections entirely
- b. Be sure to include official signature and date
- c. Exhibit A-1- **Clearly label i.e., "Exhibit A"**

2. Filing Fee

- a. Fifty dollar (\$50.00) filing fee must accompany the application packet
- b. Fee can be paid by credit card, cashiers' check, or money order
- c. Checks and money orders should be payable to the Mississippi Department of Transportation (MDOT)

The insurance requirements listed below must be met before carrier operations begin.

Minimum insurance coverage required is the same as the requirements contained in 49 C.F.R. Part 387. These limits are as follows:

1. LIABILITY COVERAGE:

(a) Property (non- hazardous)	\$750,000
-------------------------------	-----------

2. CARGO INSURANCE:

(a) Cargo liability for loads of three tons or less	\$5,000
(b) Cargo liability for loads of more than three tons	\$10,000

3. PASSENGER CARRIERS:

(a) Seating capacity of 16 or more	\$5,000,000
(b) Seating capacity of 15 or less	\$1,500,000

4. BOC-3 Form: For applicants not domiciled in the State of Mississippi.

5. TARIFF/CONTRACT: Tariff of rates, schedules of rates, Power of Attorney, or a Rate Association if filing for a Certificate as an Intrastate Common Carrier and Contracts if filing for a permit as an Intrastate Contract Carrier.

If you have any questions, contact the Mississippi Department of Transportation at: (601) 359-1717 (Option 2) or Toll Free @ 888 737-0061 (Option 2).



HEARING AND DISPOSITION ON APPLICATION FOR CERTIFICATE

Upon the filing of an application for a certificate of public convenience and necessity, the commission shall within a reasonable time, fix a time and place for hearing such application, **not less than twenty (20) days** after such filing and shall hear and determine such application within a reasonable length of time.

In determining whether the certificate shall be granted, the commission shall, among other things, give due consideration to the present transportation facilities over the proposed route of the applicant, the volume of traffic over such route, the financial condition of the applicant, and condition of the highway over the proposed route, or routes.

If the commission shall find the proposed operation justified, and that the applicant is fit, willing, and able to properly perform the services proposed and to conform to the provisions of the chapter and of the requirements, rules and regulations of the commission, it shall issue a certificate to the applicant, subject to such terms, limitations and restrictions as the commission may deem proper, authorizing in whole or in part the operations covered by the application. If the commission shall find the proposed operation not justified, the application shall be denied.



FTA CONTRACTUAL CLAUSES

FTA CIRCULAR 4220.1F



ATTACHMENT 1
FTA CIRCULAR 4220.1F
PROVISIONS, CERTIFICATIONS, REPORTS, FORMS, AND OTHER—MATRICES
B. APPLICABILITY OF THIRD-PARTY CONTRACT PROVISIONS

(excluding micro-purchases, except Davis-Bacon requirements apply to contracts exceeding \$2,000)

TYPE OF PROCUREMENT					
PROVISION	Professional Services/A&E	Operations/ Management	Rolling Stock Purchase	Construction	Materials & Supplies
No Federal Government Obligations to Third Parties (by Use of a Disclaimer)	All	All	All	All	All
False Statements or Claims Civil and Criminal Fraud	All	All	All	All	All
Access to Third Party Contract Records	All	All	All	All	All
Changes to Federal Requirements	All	All	All	All	All
Termination	>\$10,000 if 49 CFR Part 18 applies.	>\$10,000 if 49 CFR Part 18 applies.	>\$10,000 if 49 CFR Part 18 applies.	>\$10,000 if 49 CFR Part 18 applies.	>\$10,000 if 49 CFR Part 18 applies.
Civil Rights (Title VI, ADA, EEO except Special DOL EEO clause for construction projects)	All	All	All>\$10,000	All	All
Special DOL EEO clause for construction projects				>\$10,000	
Disadvantaged Business Enterprises (DBEs)	All	All	All	All	All
Incorporation of FTA Terms	All	All	All	All	All
Debarment and Suspension	>\$25,000	>\$25,000	>\$25,000	>\$25,000	>\$25,000
Buy America			>\$100,000 As of Feb. 2011, FTA has not adopted the FAR 2.101 \$150,000 standard.	>\$100,000 As of Feb. 2011, FTA has not adopted the FAR 2.101 \$150,000 standard.	>\$100,000 As of Feb. 2011, FTA has not adopted the FAR 2.101 \$150,000 standard.
Resolution of Disputes, Breaches, or Other Litigation	>\$100,000	>\$100,000	>\$100,000	>\$100,000	>\$100,000
Lobbying	>\$100,000	>\$100,000	>\$100,000	>\$100,000	>\$100,000
Clean Air	>\$100,000	>\$100,000	>\$100,000	>\$100,000	>\$100,000
Clean Water	>\$100,000	>\$100,000	>\$100,000	>\$100,000	>\$100,000
Cargo Preference			Transport by ocean vessel.	Transport by ocean vessel.	Transport by ocean vessel.
Fly America	Foreign air transp./travel.	Foreign air transp./travel.	Foreign air transp./travel.	Foreign air transp./travel.	Foreign air transp./travel.



PROVISIONS, CERTIFICATIONS, REPORTS, FORMS, AND OTHER—MATRICES

B. APPLICABILITY OF THIRD-PARTY CONTRACT PROVISIONS (Continued)

(excluding micro-purchases, except Davis-Bacon requirements apply to construction contracts exceeding \$2,000)

TYPE OF PROCUREMENT					
PROVISION	Professional Services/A&E	Operations/ Management	Rolling Stock Purchase	Construction	Materials & Supplies
Davis-Bacon Act				>\$2,000 (also ferries).	
Contract Work Hours and Safety Standards Act		>\$100,000 (transportation services excepted).	>\$100,000	>\$100,000 (also ferries).	
Copeland Anti-Kickback Act Section 1 Section 2				All > \$2,000 (also ferries).	
Bonding				\$100,000	
Seismic Safety	A&E for new buildings & additions.			New buildings & additions.	
Transit Employee Protective Arrangements		Transit operations.			
Charter Service Operations		All			
School Bus Operations		All			
Drug Use and Testing		Transit operations.			
Alcohol Misuse and Testing		Transit operations.			
Patent Rights	R & D				
Rights in Data and Copyrights	R & D				
Energy Conservation	All	All	All	All	All
Recycled Products		EPA-selected items \$10,000 or more annually.		EPA-selected items \$10,000 or more annually.	EPA-selected items \$10,000 or more annually.
Conformance with ITS National Architecture	ITS projects.	ITS projects.	ITS projects.	ITS projects.	ITS projects.
ADA Access	A&E	All	All	All	All
Notification of Federal Participation for States	Limited to States.	Limited to States.	Limited to States.	Limited to States.	Limited to States.



No Government Obligation to Third-Parties

Applicability to Contracts

Applicable to all contracts.

Applicability to Micro-Purchases

Micro-purchases are defined as those purchases under \$2,500. These requirements do not apply to micro-purchases.

Flow Down

Not required by statute or regulation for either primary contractors or subcontractors, this concept should flow down to all levels to clarify, to all parties to the contract, that the Federal Government does not have contractual liability to third parties, absent specific written consent.

Model Clause/Language

While no specific language is required, FTA has developed the following language.

No Obligation by the Federal Government.

1. The Purchaser and Contractor acknowledge and agree that, notwithstanding any concurrence by the Federal Government in or approval of the solicitation or award of the underlying contract, absent the express written consent by the Federal Government, the Federal Government is not a party to this contract and shall not be subject to any obligations or liabilities to the Purchaser, Contractor, or any other party (whether or not a party to that contract) pertaining to any matter resulting from the underlying contract.
2. The Contractor agrees to include the above clause in each subcontract financed in whole or in part with Federal assistance provided by FTA. It is further agreed that the clause shall not be modified, except to identify the subcontractor who will be subject to its provisions.

I acknowledge I have read and understand all procedures and requirements of the above referenced RFP and have complied fully with the general terms and conditions outlined in the RFP.

Contractor: _____

Representative's Signature: _____

Representative's Printed Name: _____

Date: _____



Program Fraud and False or Fraudulent Statements and Related Acts

31 U.S.C. 3801 et seq.
49 CFR Part 31 18 U.S.C. 1001
49 U.S.C. 5307

Applicability to Contracts

These requirements are applicable to all contracts.

Applicability to Micro-Purchases

Micro-purchases are defined as those purchases under \$2,500. These requirements do not apply to micro-purchases.

Flow Down

These requirements flow down to contractors and subcontractors who make, present, or submit covered claims and statements.

Model Clause/Language

These requirements have no specified language, so FTA proffers the following language.

Program Fraud and False or Fraudulent Statements or Related Acts.

1. The Contractor acknowledges that the provisions of the Program Fraud Civil Remedies Act of 1986, as amended, 31 U.S.C. § 3801 et seq. and U.S. DOT regulations, "Program Fraud Civil Remedies," 49 C.F.R. Part 31, apply to its actions pertaining to this Project. Upon execution of the underlying contract, the Contractor certifies or affirms the truthfulness and accuracy of any statement it has made, it makes, it may make, or causes to be made, pertaining to the underlying contract or the FTA assisted project for which this contract work is being performed. In addition to other penalties that may be applicable, the Contractor further acknowledges that if it makes, or causes to be made, a false, fictitious, or fraudulent claim, statement, submission, or certification, the Federal Government reserves the right to impose the penalties of the Program Fraud Civil Remedies Act of 1986 on the Contractor to the extent the Federal Government deems appropriate.
2. The Contractor also acknowledges that if it makes, or causes to be made, a false, fictitious, or fraudulent claim, statement, submission, or certification to the Federal Government under a contract connected with a project that is financed in whole or in part with Federal assistance originally awarded by FTA under the authority of 49 U.S.C. § 5307, the Government reserves the right to impose the penalties of 18 U.S.C. § 1001 and 49 U.S.C. § 5307(n)(1) on the Contractor, to the extent the Federal Government deems appropriate.
3. The Contractor agrees to include the above two clauses in each subcontract financed in whole or in part with Federal assistance provided by FTA. It is further agreed that the clauses shall not be modified, except to identify the subcontractor who will be subject to the provisions.

I acknowledge I have read and understand all procedures and requirements of the above referenced RFP and have complied fully with the general terms and conditions outlined in the RFP.

Contractor: _____

Representative's Signature: _____

Representative's Printed Name: _____

Date: _____



Access to Records and Reports

49 U.S.C. 5325
18 CFR 18.36 (i)
49 CFR 633.17

Applicability to Contracts

Reference Chart "Requirements for Access to Records and Reports by Type of Contracts"

Applicability to Micro-Purchases

Micro-purchases are defined as those purchases under \$2,500. These requirements do not apply to micro-purchases.

Flow Down

FTA does not require the inclusion of these requirements in subcontracts.

Model Clause/Language

The specified language is not mandated by the statutes or regulations referenced, but the language provided paraphrases the statutory or regulatory language.

The specified language is not mandated by the statutes or regulations referenced, but the language provided paraphrases the statutory or regulatory language.

Access to Records - The following access to records requirements apply to this Contract:

1. Where the Purchaser is not a State but a local government and is the FTA Recipient or a subgrantee of the FTA Recipient in accordance with 49 C. F. R. 18.36(i), the Contractor agrees to provide the Purchaser, the FTA Administrator, the Comptroller General of the United States or any of their authorized representatives access to any books, documents, papers and records of the Contractor which are directly pertinent to this contract for the purposes of making audits, examinations, excerpts and transcriptions. Contractor also agrees, pursuant to 49 C. F. R. 633.17 to provide the FTA Administrator or his authorized representatives including any PMO Contractor access to Contractor's records and construction sites pertaining to a major capital project, defined at 49 U.S.C. 5302(a)1, which is receiving federal financial assistance through the programs described at 49 U.S.C. 5307, 5309 or 5311.
2. Where the Purchaser is a State and is the FTA Recipient or a subgrantee of the FTA Recipient in accordance with 49 C.F.R. 633.17, Contractor agrees to provide the Purchaser, the FTA Administrator or his authorized representatives, including any PMO Contractor, access to the Contractor's records and construction sites pertaining to a major capital project, defined at 49 U.S.C. 5302(a)1, which is receiving federal financial assistance through the programs described at 49 U.S.C. 5307, 5309 or 5311. By definition, a major capital project excludes contracts of less than the simplified acquisition threshold currently set at \$100,000.
3. Where the Purchaser enters into a negotiated contract for other than a small purchase or under the simplified acquisition threshold and is an institution of higher education, a hospital or other non-profit organization and is the FTA Recipient or a subgrantee of the FTA Recipient in accordance with 49 C.F.R. 19.48, Contractor agrees to provide the Purchaser, FTA Administrator, the Comptroller General of the United States or any of their duly authorized representatives with access to any books, documents, papers and record of the Contractor which are directly pertinent to this contract for the purposes of making audits, examinations, excerpts and transcriptions.
4. Where any Purchaser which is the FTA Recipient or a subgrantee of the FTA Recipient in accordance with 49 U.S.C. 5325(a) enters into a contract for a capital project or improvement (defined at 49 U.S.C. 5302(a)1) through other than competitive bidding, the Contractor shall make available records related to the contract to the Purchaser, the Secretary of Transportation and the Comptroller General or any authorized officer or employee of any of them for the purposes of conducting an audit and inspection.
5. The Contractor agrees to permit any of the foregoing parties to reproduce by any means whatsoever or to copy excerpts and transcriptions as reasonably needed.
6. The Contractor agrees to maintain all books, records, accounts and reports required under this contract for a period of not less than three years after the date of termination or expiration of this contract, except in the event of litigation or settlement of claims arising from the performance of this contract, in which case Contractor agrees to maintain same until the Purchaser, the FTA Administrator, the Comptroller General, or any of their duly authorized representatives, have disposed of all such litigation, appeals, claims or exceptions related thereto. Reference 49 CFR 18.39(i) (11).
7. FTA does not require the inclusion of these requirements in subcontracts.



Requirements for Access to Records and Reports by Types of Contract

Contract Characteristics	Contract	Operational Service Contract	Turnkey	Construction	Architectural Engineering	Acquisition of Rolling Stock	Professional Services
I. State Grantees	a. Contracts below SAT (\$100,000)	None	Those imposed on state pass thru to Contractor	None	None	None	None
	b. Contracts above \$100,000/Capital Projects	None unless ¹ non-competitive award	Those imposed on state pass thru to Contractor	Yes, if non-competitive award or if funded thru ² 5307/5309/5311	None unless non-competitive award	None unless non-competitive award	None unless non-competitive award
II. Non-State Grantees	a. Contracts below SAT (\$100,000)	Yes ³	Those imposed on non-state Grantee pass thru to Contractor	Yes	Yes	Yes	Yes
	b. Contracts above \$100,000/Capital Projects	Yes ³	Those imposed on non-state Grantee pass thru to Contractor	Yes	Yes	Yes	Yes

Sources of Authority

1. 49 USC 5325 (a)
2. 49 CFR 633.17
3. 18 CFR 18.36 (i)

I acknowledge I have read and understand all procedures and requirements of the above referenced RFP and have complied fully with the general terms and conditions outlined in the RFP.

Contractor: _____

Representative's Signature: _____

Representative's Printed Name: _____

Date: _____



Federal Changes

49 CFR Part 18

Applicability to Contracts

The Federal Changes requirement applies to all contracts.

Applicability to Micro-Purchases

Micro-purchases are defined as those purchases under \$2,500. These requirements do not apply to micro-purchases.

Flow Down

The Federal Changes requirement flows down appropriately to each applicable changed requirement.

Model Clause/Language

No specific language is mandated. The following language has been developed by FTA.

Federal Changes - Contractor shall at all times comply with all applicable FTA regulations, policies, procedures and directives, including without limitation those listed directly or by reference in the Master Agreement between Purchaser and FTA, as they may be amended or promulgated from time to time during the term of this contract. Contractor's failure to so comply shall constitute a material breach of this contract.

I acknowledge I have read and understand all procedures and requirements of the above referenced RFP and have complied fully with the general terms and conditions outlined in the RFP.

Contractor: _____

Representative's Signature: _____

Representative's Printed Name: _____

Date: _____



Termination

49 U.S.C. Part 18
FTA Circular 4220.1E

Applicability to Contracts

All contracts (with the exception of contracts with nonprofit organizations and institutions of higher education,) in excess of \$10,000 shall contain suitable provisions for termination by the grantee including the manner by which it will be affected and the basis for settlement. (For contracts with nonprofit organizations and institutions of higher education the threshold is \$100,000.) In addition, such contracts shall describe conditions under which the contract may be terminated for default as well as conditions where the contract may be terminated because of circumstances beyond the control of the contractor.

Flow Down

The termination requirements flow down to all contracts in excess of \$10,000, with the exception of contracts with nonprofit organizations and institutions of higher learning.

Model Clause/Language

FTA does not prescribe the form or content of such clauses. The following are suggestions of clauses to be used in different types of contracts:

- a. **Termination for Convenience (General Provision)** The (Recipient) may terminate this contract, in whole or in part, at any time by written notice to the Contractor when it is in the Government's best interest. The Contractor shall be paid its costs, including contract close-out costs, and profit on work performed up to the time of termination. The Contractor shall promptly submit its termination claim to (Recipient) to be paid the Contractor. If the Contractor has any property in its possession belonging to the (Recipient), the Contractor will account for the same, and dispose of it in the manner the (Recipient) directs.
- b. **Termination for Default [Breach or Cause] (General Provision)** If the Contractor does not deliver supplies in accordance with the contract delivery schedule, or, if the contract is for services, the Contractor fails to perform in the manner called for in the contract, or if the Contractor fails to comply with any other provisions of the contract, the (Recipient) may terminate this contract for default. Termination shall be affected by serving a notice of termination on the contractor setting forth the manner in which the Contractor is in default. The contractor will only be paid the contract price for supplies delivered and accepted, or services performed in accordance with the manner of performance set forth in the contract.

If it is later determined by the (Recipient) that the Contractor had an excusable reason for not performing, such as a strike, fire, or flood, events which are not the fault of or are beyond the control of the Contractor, the (Recipient), after setting up a new delivery of performance schedule, may allow the Contractor to continue work, or treat the termination as a termination for convenience.

- c. **Opportunity to Cure (General Provision)** The (Recipient) in its sole discretion may, in the case of a termination for breach or default, allow the Contractor [an appropriately short period of time] in which to cure the defect. In such case, the notice of termination will state the time period in which cure is permitted and other appropriate conditions

If Contractor fails to remedy to (Recipient)'s satisfaction the breach or default of any of the terms, covenants, or conditions of this Contract within [ten (10) days] after receipt by Contractor of written notice from (Recipient) setting forth the nature of said breach or default, (Recipient) shall have the right to terminate the Contract without any further obligation to Contractor. Any such termination for default shall not in any way operate to preclude (Recipient) from also pursuing all available remedies against Contractor and its sureties for said breach or default.

- d. **Waiver of Remedies for any Breach** In the event that (Recipient) elects to waive its remedies for any breach by Contractor of any covenant, term or condition of this Contract, such waiver by (Recipient) shall not limit (Recipient)'s remedies for any succeeding breach of that or of any other term, covenant, or condition of this Contract.
- e. **Termination for Convenience (Professional or Transit Service Contracts)** The (Recipient), by written notice, may terminate this contract, in whole or in part, when it is in the Government's interest. If this contract is terminated, the Recipient shall be liable only for payment under the payment provisions of this contract for services rendered before the effective date of termination.
- f. **Termination for Default (Supplies and Service)** If the Contractor fails to deliver supplies or to perform the services within the time specified in this contract or any extension or if the Contractor fails to comply with any other provisions of this contract, the (Recipient) may terminate this contract for default. The (Recipient) shall terminate by delivering to the Contractor a Notice of Termination specifying the nature of the default. The Contractor will only be paid the contract price for supplies delivered and accepted, or services performed in accordance with the manner or performance set forth in this contract.

If, after termination for failure to fulfill contract obligations, it is determined that the Contractor was not in default, the rights and obligations of the parties shall be the same as if the termination had been issued for the convenience of the Recipient.



- g. **Termination for Default (Transportation Services)** If the Contractor fails to pick up the commodities or to perform the services, including delivery services, within the time specified in this contract or any extension or if the Contractor fails to comply with any other provisions of this contract, the (Recipient) may terminate this contract for default. The (Recipient) shall terminate by delivering to the Contractor a Notice of Termination specifying the nature of default. The Contractor will only be paid the contract price for services performed in accordance with the manner of performance set forth in this contract.

If this contract is terminated while the Contractor has possession of Recipient goods, the Contractor shall, upon direction of the (Recipient), protect and preserve the goods until surrendered to the Recipient or its agent. The Contractor and (Recipient) shall agree on payment for the preservation and protection of goods. Failure to agree on an amount will be resolved under the Dispute clause.

If, after termination for failure to fulfill contract obligations, it is determined that the Contractor was not in default, the rights and obligations of the parties shall be the same as if the termination had been issued for the convenience of the (Recipient).

- h. **Termination for Default (Construction)** If the Contractor refuses or fails to prosecute the work or any separable part, with the diligence that will insure its completion within the time specified in this contract or any extension or fails to complete the work within this time, or if the Contractor fails to comply with any other provisions of this contract, the (Recipient) may terminate this contract for default. The (Recipient) shall terminate by delivering to the Contractor a Notice of Termination specifying the nature of the default. In this event, the Recipient may take over the work and complete it by contract or otherwise, and may take possession of and use any materials, appliances, and plant on the work site necessary for completing the work. The Contractor and its sureties shall be liable for any damage to the Recipient resulting from the Contractor's refusal or failure to complete the work within specified time, whether or not the Contractor's right to proceed with the work is terminated. This liability includes any increased costs incurred by the Recipient in completing the work.

The Contractor's right to proceed shall not be terminated nor the Contractor charged with damages under this clause if-

1. the delay in completing the work arises from unforeseeable causes beyond the control and without the fault or negligence of the Contractor. Examples of such causes include: acts of God, acts of the Recipient, acts of another Contractor in the performance of a contract with the Recipient, epidemics, quarantine restrictions, strikes, freight embargoes; and
2. the contractor, within [10] days from the beginning of any delay, notifies the (Recipient) in writing of the causes of delay. If in the judgment of the (Recipient), the delay is excusable, the time for completing the work shall be extended. The judgment of the (Recipient) shall be final and conclusive on the parties, but subject to appeal under the Disputes clauses.

If, after termination of the Contractor's right to proceed, it is determined that the Contractor was not in default, or that the delay was excusable, the rights and obligations of the parties will be the same as if the termination had been issued for the convenience of the Recipient.

- i. **Termination for Convenience or Default (Architect and Engineering)** The (Recipient) may terminate this contract in whole or in part, for the Recipient's convenience or because of the failure of the Contractor to fulfill the contract obligations. The (Recipient) shall terminate by delivering to the Contractor a Notice of Termination specifying the nature, extent, and effective date of the termination. Upon receipt of the notice, the Contractor shall (1) immediately discontinue all services affected (unless the notice directs otherwise), and (2) deliver to the Contracting Officer all data, drawings, specifications, reports, estimates, summaries, and other information and materials accumulated in performing this contract, whether completed or in process.

If the termination is for the convenience of the Recipient, the Contracting Officer shall make an equitable adjustment in the contract price but shall allow no anticipated profit on unperformed services.

If the termination is for failure of the Contractor to fulfill the contract obligations, the Recipient may complete the work by contract or otherwise and the Contractor shall be liable for any additional cost incurred by the Recipient.

If, after termination for failure to fulfill contract obligations, it is determined that the Contractor was not in default, the rights and obligations of the parties shall be the same as if the termination had been issued for the convenience of the Recipient.

- j. **Termination for Convenience or Default (Cost-Type Contracts)** The (Recipient) may terminate this contract, or any portion of it, by serving a notice of termination on the Contractor. The notice shall state whether the termination is for convenience of the (Recipient) or for the default of the Contractor. If the termination is for default, the notice shall state the manner in which the contractor has failed to perform the requirements of the contract. The Contractor shall account for any property in its possession paid for from funds received from the (Recipient), or property supplied to the Contractor by the (Recipient). If the termination is for default, the (Recipient) may fix the fee, if the contract provides for a fee, to be paid the contractor in proportion to the value, if any, of work performed up to the time of termination. The Contractor shall promptly submit its termination claim to the (Recipient) and the parties shall negotiate the termination settlement to be paid the Contractor.

If the termination is for the convenience of the (Recipient), the Contractor shall be paid its contract close-out costs, and a fee, if the contract provided for payment of a fee, in proportion to the work performed up to the time of termination.

If, after serving a notice of termination for default, the (Recipient) determines that the Contractor has an excusable reason for not performing, such as strike, fire, flood, events which are not the fault of and are beyond the control of the contractor, the (Recipient), after setting up a new work schedule, may allow the Contractor to continue work, or treat the termination as a termination for convenience.



I acknowledge I have read and understand all procedures and requirements of the above referenced RFP and have complied fully with the general terms and conditions outlined in the RFP.

Contractor: _____

Representative's Signature: _____

Representative's Printed Name: _____

Date: _____



Civil Rights Requirements

29 U.S.C. § 623, 42 U.S.C. § 2000
42 U.S.C. § 6102, 42 U.S.C. § 12112
42 U.S.C. § 12132, 49 U.S.C. § 5332
29 CFR Part 1630, 41 CFR Parts 60 et seq.

Applicability to Contracts

The Civil Rights Requirements apply to all contracts.

Applicability to Micro-Purchases

Micro-purchases are defined as those purchases under \$2,500. These requirements do not apply to micro-purchases.

Flow Down

The Civil Rights requirements flow down to all third-party contractors and their contracts at every tier.

Model Clause/Language

The following clause was predicated on language contained at 49 CFR Part 19, Appendix A, but FTA has shorten the lengthy text.

Civil Rights - The following requirements apply to the underlying contract:

1. *Nondiscrimination* - In accordance with Title VI of the Civil Rights Act, as amended, 42 U.S.C. § 2000d, section 303 of the Age Discrimination Act of 1975, as amended, 42 U.S.C. § 6102, section 202 of the Americans with Disabilities Act of 1990, 42 U.S.C. § 12132, and Federal transit law at 49 U.S.C. § 5332, the Contractor agrees that it will not discriminate against any employee or applicant for employment because of race, color, creed, national origin, sex, age, or disability. In addition, the Contractor agrees to comply with applicable Federal implementing regulations and other implementing requirements FTA may issue.
2. *Equal Employment Opportunity* - The following equal employment opportunity requirements apply to the underlying contract:
 - a. *Race, Color, Creed, National Origin, Sex* - In accordance with Title VII of the Civil Rights Act, as amended, 42 U.S.C. § 2000e, and Federal transit laws at 49 U.S.C. § 5332, the Contractor agrees to comply with all applicable equal employment opportunity requirements of U.S. Department of Labor (U.S. DOL) regulations, "Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor," 41 C.F.R. Parts 60 et seq., (which implement Executive Order No. 11246, "Equal Employment Opportunity," as amended by Executive Order No. 11375, "Amending Executive Order 11246 Relating to Equal Employment Opportunity," 42 U.S.C. § 2000e note), and with any applicable Federal statutes, executive orders, regulations, and Federal policies that may in the future affect construction activities undertaken in the course of the Project. The Contractor agrees to take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, creed, national origin, sex, or age. Such action shall include, but not be limited to, the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. In addition, the Contractor agrees to comply with any implementing requirements FTA may issue.
 - b. *Age* - In accordance with section 4 of the Age Discrimination in Employment Act of 1967, as amended, 29 U.S.C. § § 623 and Federal transit law at 49 U.S.C. § 5332, the Contractor agrees to refrain from discrimination against present and prospective employees for reason of age. In addition, the Contractor agrees to comply with any implementing requirements FTA may issue.
 - c. *Disabilities* - In accordance with section 102 of the Americans with Disabilities Act, as amended, 42 U.S.C. § 12112, the Contractor agrees that it will comply with the requirements of U.S. Equal Employment Opportunity Commission, "Regulations to Implement the Equal Employment Provisions of the Americans with Disabilities Act," 29 C.F.R. Part 1630, pertaining to employment of persons with disabilities. In addition, the Contractor agrees to comply with any implementing requirements FTA may issue.
3. The Contractor also agrees to include these requirements in each subcontract financed in whole or in part with Federal assistance provided by FTA, modified only if necessary to identify the affected parties.



I acknowledge I have read and understand all procedures and requirements of the above referenced RFP and have complied fully with the general terms and conditions outlined in the RFP.

Contractor: _____

Representative's Signature: _____

Representative's Printed Name: _____

Date: _____



Disadvantaged Business Enterprise (DBE)

49 CFR Part 26

Background and Applicability

The newest version on the Department of Transportation's Disadvantaged Business Enterprise (DBE) program became effective July 16, 2003. The rule provides guidance to grantees on the use of overall and contract goals, requirement to include DBE provisions in subcontracts, evaluating DBE participation where specific contract goals have been set, reporting requirements, and replacement of DBE subcontractors. Additionally, the DBE program dictates payment terms and conditions (including limitations on retainage) applicable to all subcontractors regardless of whether they are DBE firms or not.

The DBE program applies to all DOT-assisted contracting activities. A formal clause such as that below must be included in all contracts above the micro-purchase level. The requirements of clause subsection b flow down to subcontracts.

A substantial change to the payment provisions in this newest version of Part 26 concerns retainage (see section 26.29). Grantee choices concerning retainage should be reflected in the language choices in clause subsection d.

Clause Language

The following clause language is suggested, not mandatory. It incorporates the payment terms and conditions applicable to all subcontractors based in Part 26 as well as those related only to DBE subcontractors. The suggested language allows for the options available to grantees concerning retainage, specific contract goals, and evaluation of DBE subcontracting participation when specific contract goals have been established.

Disadvantaged Business Enterprises

- a. This contract is subject to the requirements of Title 49, Code of Federal Regulations, Part 26, *Participation by Disadvantaged Business Enterprises in Department of Transportation Financial Assistance Programs*. The national goal for participation of Disadvantaged Business Enterprises (DBE) is 10%. The agency's overall goal for DBE participation is **1.2 %**. A separate contract goal **has not** been established for this procurement.
- b. The contractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of this DOT-assisted contract. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as **City of Hattiesburg** deems appropriate. Each subcontract the contractor signs with a subcontractor must include the assurance in this paragraph (see 49 CFR 26.13(b)).
- c. ***{If a separate contract goal has been established, use the following}*** Bidders/offerors are required to document sufficient DBE participation to meet these goals or, alternatively, document adequate good faith efforts to do so, as provided for in 49 CFR 26.53. Award of this contract is conditioned on submission of the following **[concurrent with and accompanying sealed bid]**
[concurrent with and accompanying an initial proposal] [prior to award]:

1. The names and addresses of DBE firms that will participate in this contract;
2. A description of the work each DBE will perform;
3. The dollar amount of the participation of each DBE firm participating;
4. Written documentation of the bidder/offeror's commitment to use a DBE subcontractor whose participation it submits to meet the contract goal;
5. Written confirmation from the DBE that it is participating in the contract as provided in the prime contractor's commitment; and
6. If the contract goal is not met, evidence of good faith efforts to do so.

[Bidders][Offerors] must present the information required above **[as a matter of responsiveness] [with initial proposals] [prior to contract award]** (see 49 CFR 26.53(3)).

{If no separate contract goal has been established, use the following} The successful bidder/offeror will be required to report its DBE participation obtained through race-neutral means throughout the period of performance.

- d. The contractor is required to pay its subcontractors performing work related to this contract for satisfactory performance of that work no later than 30 days after the contractor's receipt of payment for that work from the **City of Hattiesburg**. In addition, **[the contractor may not hold retainage from its subcontractors.]**
- e. The contractor must promptly notify **City of Hattiesburg**, whenever a DBE subcontractor performing work related to this contract is terminated or fails to complete its work, and must make good faith efforts to engage another DBE subcontractor to perform at least the same amount of work. The contractor may not terminate any DBE subcontractor and perform that work through its own forces or those of an affiliate without prior written consent of **City of Hattiesburg**.



I acknowledge I have read and understand all procedures and requirements of the above referenced RFP and have complied fully with the general terms and conditions outlined in the RFP.

Contractor: _____

Representative's Signature: _____

Representative's Printed Name: _____

Date: _____



Incorporation of Federal Transit Administration (FTA) Terms

FTA Circular 4220.1E

Applicability to Contracts

The incorporation of FTA terms applies to all contracts.

Applicability to Micro-Purchases

Micro-purchases are defined as those purchases under \$2,500. These requirements do not apply to micro-purchases.

Flow Down

The incorporation of FTA terms has unlimited flow down.

Model Clause/Language

FTA has developed the following incorporation of terms language:

Incorporation of Federal Transit Administration (FTA) Terms - The preceding provisions include, in part, certain Standard Terms and Conditions required by DOT, whether or not expressly set forth in the preceding contract provisions. All contractual provisions required by DOT, as set forth in FTA Circular 4220.1E are hereby incorporated by reference. Anything to the contrary herein notwithstanding, all FTA mandated terms shall be deemed to control in the event of a conflict with other provisions contained in this Agreement. The Contractor shall not perform any act, fail to perform any act, or refuse to comply with any City of Hattiesburg requests which would cause City of Hattiesburg to be in violation of the FTA terms and conditions.

I acknowledge I have read and understand all procedures and requirements of the above referenced RFP and have complied fully with the general terms and conditions outlined in the RFP.

Contractor: _____

Representative's Signature: _____

Representative's Printed Name: _____

Date: _____



Government-Wide Debarment and Suspension (Nonprocurement)

49 CFR Part 29
Executive Order 12549

Background and Applicability

In conjunction with the Office of Management and Budget and other affected Federal agencies, DOT published an update to 49 CFR Part 29 on November 26, 2003. This government-wide regulation implements Executive Order 12549, *Debarment and Suspension*, Executive Order 12689, *Debarment and Suspension*, and 31 U.S.C. 6101 note (Section 2455, Public Law 103-355, 108 Stat. 3327).

The provisions of Part 29 apply to all grantee contracts and subcontracts at any level expected to equal or exceed \$25,000 as well as any contract or subcontract (at any level) for Federally required auditing services. 49 CFR 29.220(b). This represents a change from prior practice in that the dollar threshold for application of these rules has been lowered from \$100,000 to \$25,000. These are contracts and subcontracts referred to in the regulation as "covered transactions."

Grantees, contractors, and subcontractors (at any level) that enter into covered transactions are required to verify that the entity (as well as its principals and affiliates) they propose to contract or subcontract with is not excluded or disqualified. They do this by (a) Checking the Excluded Parties List System, (b) Collecting a certification from that person, or (c) Adding a clause or condition to the contract or subcontract. This represents a change from prior practice in that certification is still acceptable but is no longer required. 49 CFR 29.300.

Grantees, contractors, and subcontractors who enter into covered transactions also must require the entities they contract with to comply with 49 CFR 29, subpart C and include this requirement in their own subsequent covered transactions (i.e., the requirement flows down to subcontracts at all levels).

Clause Language

The following clause language is suggested, not mandatory. It incorporates the optional method of verifying that contractors are not excluded or disqualified by certification.

Suspension and Debarment

This contract is a covered transaction for purposes of 49 CFR Part 29. As such, the contractor is required to verify that none of the contractor, its principals, as defined at 49 CFR 29.995, or affiliates, as defined at 49 CFR 29.905, are excluded or disqualified as defined at 49 CFR 29.940 and 29.945.

The contractor is required to comply with 49 CFR 29, Subpart C and must include the requirement to comply with 49 CFR 29, Subpart C in any lower tier covered transaction it enters into.

By signing and submitting its bid or proposal, the bidder or proposer certifies as follows:

The certification in this clause is a material representation of fact relied upon by **City of Hattiesburg**. If it is later determined that the bidder or proposer knowingly rendered an erroneous certification, in addition to remedies available to **City of Hattiesburg**, the Federal Government may pursue available remedies, including but not limited to suspension and/or debarment. The bidder or proposer agrees to comply with the requirements of 49 CFR 29, Subpart C while this offer is valid and throughout the period of any contract that may arise from this offer. The bidder or proposer further agrees to include a provision requiring such compliance in its lower tier covered transactions.

I acknowledge I have read and understand all procedures and requirements of the above referenced RFP and have complied fully with the general terms and conditions outlined in the RFP.

Contractor: _____

Representative's Signature: _____

Representative's Printed Name: _____

Date: _____



Breaches and Dispute Resolution

49 CFR Part 18
FTA Circular 4220.1E

Applicability to Contracts

All contracts in excess of \$100,000 shall contain provisions or conditions which will allow for administrative, contractual, or legal remedies in instances where contractors violate or breach contract terms, and provide for such sanctions and penalties as may be appropriate. This may include provisions for bonding, penalties for late or inadequate performance, retained earnings, liquidated damages or other appropriate measures.

Flow Down

The Breaches and Dispute Resolutions requirements flow down to all tiers.

Model Clauses/Language

FTA does not prescribe the form or content of such provisions. What provisions are developed will depend on the circumstances and the type of contract. Recipients should consult legal counsel in developing appropriate clauses. The following clauses are examples of provisions from various FTA third party contracts.

Disputes - Disputes arising in the performance of this Contract which are not resolved by agreement of the parties shall be decided in writing by the authorized representative of (Recipient)'s [title of employee]. This decision shall be final and conclusive unless within [ten (10)] days from the date of receipt of its copy, the Contractor mails or otherwise furnishes a written appeal to the [title of employee]. In connection with any such appeal, the Contractor shall be afforded an opportunity to be heard and to offer evidence in support of its position. The decision of the [title of employee] shall be binding upon the Contractor and the Contractor shall abide by the decision.

Performance During Dispute - Unless otherwise directed by (Recipient), Contractor shall continue performance under this Contract while matters in dispute are being resolved.

Claims for Damages - Should either party to the Contract suffer injury or damage to person or property because of any act or omission of the party or of any of his employees, agents or others for whose acts he is legally liable, a claim for damages therefore shall be made in writing to such other party within a reasonable time after the first observance of such injury or damage.

Remedies - Unless this contract provides otherwise, all claims, counterclaims, disputes and other matters in question between the (Recipient) and the Contractor arising out of or relating to this agreement or its breach will be decided by arbitration if the parties mutually agree, or in a court of competent jurisdiction within the State in which the (Recipient) is located.

Rights and Remedies - The duties and obligations imposed by the Contract Documents and the rights and remedies available there under shall be in addition to and not a limitation of any duties, obligations, rights and remedies otherwise imposed or available by law. No action or failure to act by the (Recipient), (Architect) or Contractor shall constitute a waiver of any right or duty afforded any of them under the Contract, nor shall any such action or failure to act constitute an approval of or acquiescence in any breach there under, except as may be specifically agreed in writing.

I acknowledge I have read and understand all procedures and requirements of the above referenced RFP and have complied fully with the general terms and conditions outlined in the RFP.

Contractor: _____

Representative's Signature: _____

Representative's Printed Name: _____

Date: _____



Lobbying

31 U.S.C. 1352

49 CFR Part 19

49 CFR Part 20

Applicability to Contracts

The Lobbying requirements apply to Construction/Architectural and Engineering/Acquisition of Rolling Stock/Professional Service Contract/Operational Service Contract/Turnkey contracts.

Applicability to Micro-Purchases

Micro-purchases are defined as those purchases under \$2,500. These requirements do not apply to micro-purchases.

Flow Down

The Lobbying requirements mandate the maximum flow down, pursuant to Byrd Anti-Lobbying Amendment, 31 U.S.C. § 1352(b)(5) and 49 C.F.R. Part 19, Appendix A, Section 7.

Mandatory Clause/Language

- Clause and specific language therein are mandated by 49 CFR Part 19, Appendix A.
Modifications have been made to the Clause pursuant to Section 10 of the Lobbying Disclosure Act of 1995, P.L. 104-65 [to be codified at 2 U.S.C. § 1601, *et seq.*]
- Lobbying Certification and Disclosure of Lobbying Activities for third party contractors are mandated by 31 U.S.C. 1352(b)(5), as amended by Section 10 of the Lobbying Disclosure Act of 1995, and DOT implementing regulation, "New Restrictions on Lobbying," at 49 CFR § 20.110(d)
- Language in Lobbying Certification is mandated by 49 CFR Part 19, Appendix A, Section 7, which provides that contractors file the certification required by 49 CFR Part 20, Appendix A.
Modifications have been made to the Lobbying Certification pursuant to Section 10 of the Lobbying Disclosure Act of 1995.
- Use of "Disclosure of Lobbying Activities," Standard Form-LLL set forth in Appendix B of 49 CFR Part 20, as amended by "Government wide Guidance for New Restrictions on Lobbying," 61 Fed. Reg. 1413 (1/19/96) is mandated by 49 CFR Part 20, Appendix A.

Byrd Anti-Lobbying Amendment, 31 U.S.C. 1352, as amended by the Lobbying Disclosure Act of 1995, P.L. 104-65 [to be codified at 2 U.S.C. § 1601, *et seq.*] - Contractors who apply or bid for an award of \$100,000 or more shall file the certification required by 49 CFR part 20, "New Restrictions on Lobbying." Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352. Each tier shall also disclose the name of any registrant under the Lobbying Disclosure Act of 1995 who has made lobbying contacts on its behalf with non-Federal funds with respect to that Federal contract, grant or award covered by 31 U.S.C. 1352. Such disclosures are forwarded from tier to tier up to the recipient.

APPENDIX A, 49 CFR PART 20--CERTIFICATION REGARDING LOBBYING

Certification for Contracts, Grants, Loans, and Cooperative Agreements

(To be submitted with each bid or offer exceeding \$100,000)

The undersigned [Contractor] certifies, to the best of his or her knowledge and belief, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.



2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for making lobbying contacts to an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form--LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions [as amended by "Government wide Guidance for New Restrictions on Lobbying," 61 Fed. Reg. 1413 (1/19/96). Note: Language in paragraph (2) herein has been modified in accordance with Section 10 of the Lobbying Disclosure Act of 1995 (P.L. 104-65, to be codified at 2 U.S.C. 1601, *et seq.*)]
3. The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31, U.S.C. § 1352 (as amended by the Lobbying Disclosure Act of 1995). Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

[Note: Pursuant to 31 U.S.C. § 1352(c)(1)-(2)(A), any person who makes a prohibited expenditure or fails to file or amend a required certification or disclosure form shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such expenditure or failure.]

The Contractor, _____, certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. A 3801, *et seq.*, apply to this certification and disclosure, if any.

Signature of Contractor's Authorized Official

Name and Title of Contractor's Authorized Official

Date

I acknowledge I have read and understand all procedures and requirements of the above referenced RFP and have complied fully with the general terms and conditions outlined in the RFP.

Contractor: _____

Representative's Signature: _____

Representative's Printed Name: _____

Date: _____



Energy Conservation Requirements

42 U.S.C. 6321 et seq.
49 CFR Part 18

Applicability to Contracts

The Energy Conservation requirements are applicable to all contracts.

Applicability to Micro-Purchases

Micro-purchases are defined as those purchases under \$2,500. These requirements do not apply to micro-purchases.

Flow Down

The Energy Conservation requirements extend to all third-party contractors and their contracts at every tier and subrecipients and their sub agreements at every tier.

Model Clause/Language

No specific clause is recommended in the regulations because the Energy Conservation requirements are so dependent on the state energy conservation plan. The following language has been developed by FTA.

Energy Conservation - The contractor agrees to comply with mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act.

I acknowledge I have read and understand all procedures and requirements of the above referenced RFP and have complied fully with the general terms and conditions outlined in the RFP.

Contractor: _____

Representative's Signature: _____

Representative's Printed Name: _____

Date: _____



Clean Water Requirements

33 U.S.C. 1251

Applicability to Contracts

The Clean Water requirements apply to each contract and subcontract which exceeds \$100,000.

Flow Down

The Clean Water requirements flow down to FTA recipients and subrecipients at every tier.

Model Clause/Language

While no mandatory clause is contained in the Federal Water Pollution Control Act, as amended, the following language developed by FTA contains all the mandatory requirements.

Clean Water - (1) The Contractor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Federal Water Pollution Control Act, as amended, 33 U.S.C. 1251 et seq. The Contractor agrees to report each violation to the Purchaser and understands and agrees that the Purchaser will, in turn, report each violation as required to assure notification to FTA and the appropriate EPA Regional Office.

(2) The Contractor also agrees to include these requirements in each subcontract exceeding \$100,000 financed in whole or in part with Federal assistance provided by FTA.

I acknowledge I have read and understand all procedures and requirements of the above referenced RFP and have complied fully with the general terms and conditions outlined in the RFP.

Contractor: _____

Representative's Signature: _____

Representative's Printed Name: _____

Date: _____



CLEAN AIR

42 U.S.C. 7401 *et seq*

40 CFR 15.61

49 CFR Part 18

Applicability to Contracts

The Clean Air requirements apply to all contracts exceeding \$100,000, including indefinite quantities where the amount is expected to exceed \$100,000 in any year.

Flow Down

The Clean Air requirements flow down to all subcontracts which exceed \$100,000.

Model Clauses/Language

No specific language is required. FTA has proposed the following language.

Clean Air - (1) The Contractor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act, as amended, 42 U.S.C. §§ 7401 *et seq*. The Contractor agrees to report each violation to the Purchaser and understands and agrees that the Purchaser will, in turn, report each violation as required to assure notification to FTA and the appropriate EPA Regional Office.

(2) The Contractor also agrees to include these requirements in each subcontract exceeding \$100,000 financed in whole or in part with Federal assistance provided by FTA.

I acknowledge I have read and understand all procedures and requirements of the above referenced RFP and have complied fully with the general terms and conditions outlined in the RFP.

Contractor: _____

Representative's Signature: _____

Representative's Printed Name: _____

Date: _____



Contract Work Hours and Safety Standards Act

Background and Application

The Contract Work Hours and Safety Standards Act is codified at 40 USC 3701, et seq. The Act applies to grantee contracts and subcontracts “financed at least in part by loans or grants from ... the [Federal] Government.” 40 USC 3701(b)(1)(B)(iii) and (b)(2), 29 CFR 5.2(h), 49 CFR 18.36(i)(6). Although the original Act required its application in any construction contract over \$2,000 or non-construction contract to which the Act applied over \$2,500 (and language to that effect is still found in 49 CFR 18.36(i)(6)), the Act no longer applies to any “contract in an amount that is not greater than \$100,000.” 40 USC 3701(b)(3)(A)(iii).

The Act applies to construction contracts and, in very limited circumstances, non-construction projects that employ “laborers or mechanics on a public work.” These non-construction applications do not generally apply to transit procurements because transit procurements (to include rail cars and buses) are deemed “commercial items.” 40 USC 3707, 41 USC 403 (12). A grantee that contemplates entering into a contract to procure a developmental or unique item should consult counsel to determine if the Act applies to that procurement and that additional language required by 29 CFR 5.5(c) must be added to the basic clause below.

The clause language is drawn directly from 29 CFR 5.5(b) and any deviation from the model clause below should be coordinated with counsel to ensure the Act’s requirements are satisfied.

Clause Language

Contract Work Hours and Safety Standards

1. **Overtime requirements** - No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.
2. **Violation; liability for unpaid wages; liquidated damages** - In the event of any violation of the clause set forth in paragraph (1) of this section the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1) of this section, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1) of this section.
3. **Withholding for unpaid wages and liquidated damages** - The (write in the name of the grantee) shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2) of this section.
4. **Subcontracts** - The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraphs (1) through (4) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1) through (4) of this section.

I acknowledge I have read and understand all procedures and requirements of the above referenced RFP and have complied fully with the general terms and conditions outlined in the RFP.

Contractor: _____

Representative’s Signature: _____

Representative’s Printed Name: _____

Date: _____



Drug and Alcohol Testing

49 U.S.C. §5331
49 CFR Parts 653 and 654

Applicability to Contracts

The Drug and Alcohol testing provisions apply to Operational Service Contracts.

Applicability to Micro-Purchases

Micro-purchases are defined as those purchases under \$2,500. These requirements do not apply to micro-purchases.

Flow Down Requirements

Anyone who performs a safety-sensitive function for the recipient or subrecipient is required to comply with 49 CFR 653 and 654, with certain exceptions for contracts involving maintenance services. Maintenance contractors for non-urbanized area formula program grantees are not subject to the rules. Also, the rules do not apply to maintenance subcontractors.

Model Clause/Language

Introduction

FTA's drug and alcohol rules, 49 CFR 653 and 654, respectively, are unique among the regulations issued by FTA. First, they require recipients to ensure that any entity performing a safety-sensitive function on the recipient's behalf (usually subrecipients and/or contractors) implement a complex drug and alcohol testing program that complies with Parts 653 and 654. Second, the rules condition the receipt of certain kinds of FTA funding on the recipient's compliance with the rules; thus, the recipient is not in compliance with the rules unless every entity that performs a safety-sensitive function on the recipient's behalf is in compliance with the rules. Third, the rules do not specify how a recipient ensures that its subrecipients and/or contractors comply with them.

How a recipient does so depend on several factors, including whether the contractor is covered independently by the drug and alcohol rules of another Department of Transportation operating administration, the nature of the relationship that the recipient has with the contractor, and the financial resources available to the recipient to oversee the contractor's drug and alcohol testing program. In short, there are a variety of ways a recipient can ensure that its subrecipients and contractors comply with the rules.

Therefore, FTA has developed three model contract provisions for recipients to use "as is" or to modify to fit their particular situations.

Explanation of Model Contract Clauses

Under Option 1, the recipient ensures the contractor's compliance with the rules by requiring the contractor to participate in a drug and alcohol program administered by the recipient. The advantages of doing this are obvious: the recipient maintains total control over its compliance with 49 CFR 653 and 654. The disadvantage is that the recipient, which may not directly employ any safety-sensitive employees, has to implement a complex testing program. Therefore, this may be a practical option only for those recipients which have a testing program for their employees, and can add the contractor's safety-sensitive employees to that program.

Under Option 2, the recipient relies on the contractor to implement a drug and alcohol testing program that complies with 49 CFR 653 and 654, but retains the ability to monitor the contractor's testing program; thus, the recipient has less control over its compliance with the drug and alcohol testing rules than it does under option 1. The advantage of this approach is that it places the responsibility for complying with the rules on the entity that is actually performing the safety-sensitive function. Moreover, it reserves to the recipient the power to ensure that the contractor complies with the program. The disadvantage of Option 2 is that without adequate monitoring of the contractor's program, the recipient may find itself out of compliance with the rules.

Under option 3, the recipient specifies some or all of the specific features of a contractor's drug and alcohol compliance program. Thus, it requires the recipient to decide what it wants to do and how it wants to do it. The advantage of this option is that the recipient has more control over the contractor's drug and alcohol testing program, yet it is not actually administering the testing program. The disadvantage is that the recipient has to specify and understand clearly what it wants to do and why.

Drug and Alcohol Testing Option 1

The contractor agrees to:

(a) participate in (grantee's or recipient's) drug and alcohol program established in compliance with 49 CFR 653 and 654.



Drug and Alcohol Testing Option 2

The contractor agrees to establish and implement a drug and alcohol testing program that complies with 49 CFR Parts 653 and 654, produce any documentation necessary to establish its compliance with Parts 653 and 654, and permit any authorized representative of the United States Department of Transportation or its operating administrations, the State Oversight Agency of (name of State), or the (insert name of grantee), to inspect the facilities and records associated with the implementation of the drug and alcohol testing program as required under 49 CFR Parts 653 and 654 and review the testing process. The contractor agrees further to certify annually its compliance with Parts 653 and 654 before (insert date) and to submit the Management Information System (MIS) reports before (insert date before March 15) to (insert title and address of person responsible for receiving information). To certify compliance the contractor shall use the "Substance Abuse Certifications" in the "Annual List of Certifications and Assurances for Federal Transit Administration Grants and Cooperative Agreements," which is published annually in the Federal Register.

Drug and Alcohol Testing Option 3

The contractor agrees to establish and implement a drug and alcohol testing program that complies with 49 CFR Parts 653 and 654, produce any documentation necessary to establish its compliance with Parts 653 and 654, and permit any authorized representative of the United States Department of Transportation or its operating administrations, the State Oversight Agency of (name of State), or the (insert name of grantee), to inspect the facilities and records associated with the implementation of the drug and alcohol testing program as required under 49 CFR Parts 653 and 654 and review the testing process. The contractor agrees further to certify annually its compliance with Parts 653 and 654 before (insert date) and to submit the Management Information System (MIS) reports before (insert date before March 15) to (insert title and address of person responsible for receiving information). To certify compliance the contractor shall use the "Substance Abuse Certifications" in the "Annual List of Certifications and Assurances for Federal Transit Administration Grants and Cooperative Agreements," which is published annually in the Federal Register. The Contractor agrees further to [Select a, b, or c] (a) submit before (insert date or upon request) a copy of the Policy Statement developed to implement its drug and alcohol testing program; OR (b) adopt (insert title of the Policy Statement the recipient wishes the contractor to use) as its policy statement as required under 49 CFR 653 and 654; OR (c) submit for review and approval before (insert date or upon request) a copy of its Policy Statement developed to implement its drug and alcohol testing program. In addition, the contractor agrees to: (to be determined by the recipient, but may address areas such as: the selection of the certified laboratory, substance abuse professional, or Medical Review Officer, or the use of a consortium).

I acknowledge I have read and understand all procedures and requirements of the above referenced FTA Contractual Clause and have complied fully with the general terms and conditions stated above.

Contractor: _____

Representative's Signature: _____

Representative's Printed Name: _____

Date: _____



Transit Employee Protective Agreements

49 U.S.C. § 5310, § 5311, and § 5333
29 CFR Part 215

Applicability to Contracts

The Transit Employee Protective Provisions apply to each contract for transit operations performed by employees of a Contractor recognized by FTA to be a transit operator. (Because transit operations involve many activities apart from directly driving or operating transit vehicles, FTA determines which activities constitute transit "operations" for purposes of this clause.)

Applicability to Micro-Purchases

Micro-purchases are defined as those purchases under \$2,500. These requirements do not apply to micro-purchases.

Flow Down

These provisions are applicable to all contracts and subcontracts at every tier.

Model Clause/Language

Since no mandatory language is specified, FTA had developed the following language.

Transit Employee Protective Provisions.

1. The Contractor agrees to the comply with applicable transit employee protective requirements as follows:
 - a. *General Transit Employee Protective Requirements* - To the extent that FTA determines that transit operations are involved, the Contractor agrees to carry out the transit operations work on the underlying contract in compliance with terms and conditions determined by the U.S. Secretary of Labor to be fair and equitable to protect the interests of employees employed under this contract and to meet the employee protective requirements of 49 U.S.C. A 5333(b), and U.S. DOL guidelines at 29 C.F.R. Part 215, and any amendments thereto. These terms and conditions are identified in the letter of certification from the U.S. DOL to FTA applicable to the FTA Recipient's project from which Federal assistance is provided to support work on the underlying contract. The Contractor agrees to carry out that work in compliance with the conditions stated in that U.S. DOL letter. The requirements of this subsection (1), however, do not apply to any contract financed with Federal assistance provided by FTA either for projects for elderly individuals and individuals with disabilities authorized by 49 U.S.C. § 5310(a)(2), or for projects for nonurbanized areas authorized by 49 U.S.C. § 5311. Alternate provisions for those projects are set forth in subsections (b) and (c) of this clause.
 - b. *Transit Employee Protective Requirements for Projects Authorized by 49 U.S.C.*

§ 5310(a)(2) for Elderly Individuals and Individuals with Disabilities - If the contract involves transit operations financed in whole or in part with Federal assistance authorized by 49 U.S.C. § 5310(a)(2), and if the U.S. Secretary of Transportation has determined or determines in the future that the employee protective requirements of 49 U.S.C. § 5333(b) are necessary or appropriate for the state and the public body subrecipient for which work is performed on the underlying contract, the Contractor agrees to carry out the Project in compliance with the terms and conditions determined by the U.S. Secretary of Labor to meet the requirements of 49 U.S.C. § 5333(b), U.S. DOL guidelines at 29 C.F.R. Part 215, and any amendments thereto. These terms and conditions are identified in the U.S. DOL's letter of certification to FTA, the date of which is set forth Grant Agreement or Cooperative Agreement with the state. The Contractor agrees to perform transit operations in connection with the underlying contract in compliance with the conditions stated in that U.S. DOL letter.
 - c. *Transit Employee Protective Requirements for Projects Authorized by 49 U.S.C.*

§ 5311 in Nonurbanized Areas - If the contract involves transit operations financed in whole or in part with Federal assistance authorized by 49 U.S.C. § 5311, the Contractor agrees to comply with the terms and conditions of the Special Warranty for the Nonurbanized Area Program agreed to by the U.S. Secretaries of Transportation and Labor, dated May 31, 1979, and the procedures implemented by U.S. DOL or any revision thereto.
2. The Contractor also agrees to include the any applicable requirements in each subcontract involving transit operations financed in whole or in part with Federal assistance provided by FTA.



Charter Bus Requirements

49 U.S.C. 5323(d)
49 CFR Part 604

Applicability to Contracts

The Charter Bus requirements apply to the following type of contract: Operational Service Contracts.

Applicability to Micro-Purchases

Micro-purchases are defined as those purchases under \$2,500. These requirements do not apply to micro-purchases.

Flow Down Requirements

The Charter Bus requirements flow down from FTA recipients and subrecipients to first tier service contractors.

Model Clause/Language

The relevant statutes and regulations do not mandate any specific clause or language. The following clause has been developed by FTA.

Charter Service Operations - The contractor agrees to comply with 49 U.S.C. 5323(d) and 49 CFR Part 604, which provides that recipients and subrecipients of FTA assistance are prohibited from providing charter service using federally funded equipment or facilities if there is at least one private charter operator willing and able to provide the service, except under one of the exceptions at 49 CFR 604.9. Any charter service provided under one of the exceptions must be "incidental," i.e., it must not interfere with or detract from the provision of mass transportation.

School Bus Requirements

49 U.S.C. 5323(F)
49 CFR Part 605

Applicability to Contracts

The School Bus requirements apply to the following type of contract: Operational Service Contracts.

Flow Down Requirements

The School Bus requirements flow down from FTA recipients and subrecipients to first tier service contractors.

Model Clause/Language

The relevant statutes and regulations do not mandate any specific clause or language. The following clause has been developed by FTA.

School Bus Operations - Pursuant to 49 U.S.C. 5323(f) and 49 CFR Part 605, recipients and subrecipients of FTA assistance may not engage in school bus operations exclusively for the transportation of students and school personnel in competition with private school bus operators unless qualified under specified exemptions. When operating exclusive school bus service under an allowable exemption, recipients and subrecipients may not use federally funded equipment, vehicles, or facilities.



I acknowledge I have read and understand all procedures and requirements of the above referenced RFP and have complied fully with the general terms and conditions outlined in the RFP.

Contractor: _____

Representative's Signature: _____

Representative's Printed Name: _____

Date: _____



Energy Conservation Requirements

42 U.S.C. 6321 et seq.
49 CFR Part 18

Applicability to Contracts

The Energy Conservation requirements are applicable to all contracts.

Applicability to Micro-Purchases

Micro-purchases are defined as those purchases under \$2,500. These requirements do not apply to micro-purchases.

Flow Down

The Energy Conservation requirements extend to all third-party contractors and their contracts at every tier and subrecipients and their sub agreements at every tier.

Model Clause/Language

No specific clause is recommended in the regulations because the Energy Conservation requirements are so dependent on the state energy conservation plan. The following language has been developed by FTA.

Energy Conservation - The contractor agrees to comply with mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan

I acknowledge I have read and understand all procedures and requirements of the above referenced RFP and have complied fully with the general terms and conditions outlined in the RFP.

Contractor: _____

Representative's Signature: _____

Representative's Printed Name: _____

Date: _____



Privacy Act

5 U.S.C. 552

Applicability to Contracts

When a grantee maintains files on drug and alcohol enforcement activities for FTA, and those files are organized so that information could be retrieved by personal identifier, the Privacy Act requirements apply to all contracts.

Applicability to Micro-Purchases

Micro-purchases are defined as those purchases under \$2,500. These requirements do not apply to micro-purchases.

Flow Down

The Federal Privacy Act requirements flow down to each third-party contractor and their contracts at every tier.

Model Clause/Language

The text of the following clause has not been mandated by statute or specific regulation, but has been developed by FTA.

Contracts Involving Federal Privacy Act Requirements - The following requirements apply to the Contractor and its employees that administer any system of records on behalf of the Federal Government under any contract:

1. The Contractor agrees to comply with, and assures the compliance of its employees with, the information restrictions and other applicable requirements of the Privacy Act of 1974,

5 U.S.C. § 552a. Among other things, the Contractor agrees to obtain the express consent of the Federal Government before the Contractor or its employees operate a system of records on behalf of the Federal Government. The Contractor understands that the requirements of the Privacy Act, including the civil and criminal penalties for violation of that Act, apply to those individuals involved, and that failure to comply with the terms of the Privacy Act may result in termination of the underlying contract.
2. The Contractor also agrees to include these requirements in each subcontract to administer any system of records on behalf of the Federal Government financed in whole or in part with Federal assistance provided by FTA.

I acknowledge I have read and understand all procedures and requirements of the above referenced RFP and have complied fully with the general terms and conditions outlined in the RFP.

Contractor: _____

Representative's Signature: _____

Representative's Printed Name: _____

Date: _____



Breaches and Dispute Resolution

49 CFR Part 18
FTA Circular 4220.1E

Applicability to Contracts

All contracts in excess of \$100,000 shall contain provisions or conditions which will allow for administrative, contractual, or legal remedies in instances where contractors violate or breach contract terms, and provide for such sanctions and penalties as may be appropriate. This may include provisions for bonding, penalties for late or inadequate performance, retained earnings, liquidated damages or other appropriate measures.

Flow Down

The Breaches and Dispute Resolutions requirements flow down to all tiers.

Model Clauses/Language

FTA does not prescribe the form or content of such provisions. What provisions are developed will depend on the circumstances and the type of contract. Recipients should consult legal counsel in developing appropriate clauses. The following clauses are examples of provisions from various FTA third party contracts.

Disputes - Disputes arising in the performance of this Contract which are not resolved by agreement of the parties shall be decided in writing by the authorized representative of (Recipient)'s [title of employee]. This decision shall be final and conclusive unless within [ten (10)] days from the date of receipt of its copy, the Contractor mails or otherwise furnishes a written appeal to the [title of employee]. In connection with any such appeal, the Contractor shall be afforded an opportunity to be heard and to offer evidence in support of its position. The decision of the [title of employee] shall be binding upon the Contractor and the Contractor shall abide by the decision.

Performance During Dispute - Unless otherwise directed by (Recipient), Contractor shall continue performance under this Contract while matters in dispute are being resolved.

Claims for Damages - Should either party to the Contract suffer injury or damage to person or property because of any act or omission of the party or of any of his employees, agents or others for whose acts he is legally liable, a claim for damages therefor shall be made in writing to such other party within a reasonable time after the first observance of such injury or damage.

Remedies - Unless this contract provides otherwise, all claims, counterclaims, disputes and other matters in question between the (Recipient) and the Contractor arising out of or relating to this agreement or its breach will be decided by arbitration if the parties mutually agree, or in a court of competent jurisdiction within the State in which the (Recipient) is located.

Rights and Remedies - The duties and obligations imposed by the Contract Documents and the rights and remedies available thereunder shall be in addition to and not a limitation of any duties, obligations, rights and remedies otherwise imposed or available by law. No action or failure to act by the (Recipient), (Architect) or Contractor shall constitute a waiver of any right or duty afforded any of them under the Contract, nor shall any such action or failure to act constitute an approval of or acquiescence in any breach thereunder, except as may be specifically agreed in writing.

I acknowledge I have read and understand all procedures and requirements of the above referenced RFP and have complied fully with the general terms and conditions outlined in the RFP.

Contractor: _____

Representative's Signature: _____

Representative's Printed Name: _____

Date: _____



Transit Employee Protective Agreements

49 U.S.C. § 5310, § 5311, and § 5333
29 CFR Part 215

Applicability to Contracts

The Transit Employee Protective Provisions apply to each contract for transit operations performed by employees of a Contractor recognized by FTA to be a transit operator. (Because transit operations involve many activities apart from directly driving or operating transit vehicles, FTA determines which activities constitute transit "operations" for purposes of this clause.)

Applicability to Micro-Purchases

Micro-purchases are defined as those purchases under \$2,500. These requirements do not apply to micro-purchases.

Flow Down

These provisions are applicable to all contracts and subcontracts at every tier.

Model Clause/Language

Since no mandatory language is specified, FTA had developed the following language.

Transit Employee Protective Provisions.

1. The Contractor agrees to the comply with applicable transit employee protective requirements as follows:
 - a. *General Transit Employee Protective Requirements* - To the extent that FTA determines that transit operations are involved, the Contractor agrees to carry out the transit operations work on the underlying contract in compliance with terms and conditions determined by the U.S. Secretary of Labor to be fair and equitable to protect the interests of employees employed under this contract and to meet the employee protective requirements of 49 U.S.C. A 5333(b), and U.S. DOL guidelines at 29 C.F.R. Part 215, and any amendments thereto. These terms and conditions are identified in the letter of certification from the U.S. DOL to FTA applicable to the FTA Recipient's project from which Federal assistance is provided to support work on the underlying contract. The Contractor agrees to carry out that work in compliance with the conditions stated in that U.S. DOL letter. The requirements of this subsection (1), however, do not apply to any contract financed with Federal assistance provided by FTA either for projects for elderly individuals and individuals with disabilities authorized by 49 U.S.C. § 5310(a)(2), or for projects for nonurbanized areas authorized by 49 U.S.C. § 5311. Alternate provisions for those projects are set forth in subsections (b) and (c) of this clause.
 - b. *Transit Employee Protective Requirements for Projects Authorized by 49 U.S.C.*

§ 5310(a)(2) for Elderly Individuals and Individuals with Disabilities - If the contract involves transit operations financed in whole or in part with Federal assistance authorized by 49 U.S.C. § 5310(a)(2), and if the U.S. Secretary of Transportation has determined or determines in the future that the employee protective requirements of 49 U.S.C. § 5333(b) are necessary or appropriate for the state and the public body subrecipient for which work is performed on the underlying contract, the Contractor agrees to carry out the Project in compliance with the terms and conditions determined by the U.S. Secretary of Labor to meet the requirements of 49 U.S.C. § 5333(b), U.S. DOL guidelines at 29 C.F.R. Part 215, and any amendments thereto. These terms and conditions are identified in the U.S. DOL's letter of certification to FTA, the date of which is set forth Grant Agreement or Cooperative Agreement with the state. The Contractor agrees to perform transit operations in connection with the underlying contract in compliance with the conditions stated in that U.S. DOL letter.
 - c. *Transit Employee Protective Requirements for Projects Authorized by 49 U.S.C.*

§ 5311 in Nonurbanized Areas - If the contract involves transit operations financed in whole or in part with Federal assistance authorized by 49 U.S.C. § 5311, the Contractor agrees to comply with the terms and conditions of the Special Warranty for the Nonurbanized Area Program agreed to by the U.S. Secretaries of Transportation and Labor, dated May 31, 1979, and the procedures implemented by U.S. DOL or any revision thereto.
2. The Contractor also agrees to include the any applicable requirements in each subcontract involving transit operations financed in whole or in part with Federal assistance provided by FTA.



I acknowledge I have read and understand all procedures and requirements of the above referenced RFP and have complied fully with the general terms and conditions outlined in the RFP.

Contractor: _____

Representative's Signature: _____

Representative's Printed Name: _____

Date: _____



AMERICANS WITH DISABILITIES ACT (ADA)

ADA Access – The FTA Best Practices Procurement Manual does not yet include a description of this required clause. In general, contractors must comply applicable requirements of the Americans with Disabilities Act of 1990 (ADA), Section 504 of the Rehabilitation Act of 1973, and USDOT/FTA implementing regulations.

Americans with Disabilities Act (ADA). The Contractor agrees to comply with all applicable requirements of the Americans with Disabilities Act of 1990 (ADA), as amended, 42 USC § 12101 et seq.; section 504 of the Rehabilitation Act of 1973, as amended, 29 USC § 794; 49 USC § 5301(d); and any implementing requirements FTA may issue. These regulations provide that no handicapped individual, solely by reason of his or her handicap, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity included in or resulting from this Agreement.

I acknowledge I have read and understand all procedures and requirements of the above referenced RFP and have complied fully with the general terms and conditions outlined in the RFP.

Contractor: _____

Representative's Signature: _____

Representative's Printed Name: _____

Date: _____



Memorandum

To: Mayor Toby Barker and Members of City Council

From: Lamar Rutland

cc:

Date: Tuesday, August 4, 2020

Re: Approve Plans and Specifications for the Hardy Street Paving Project (21st Avenue to West Pine Street) and authorize advertisement for bids.
File Number: 2020-513
Minute Book #

Summary

Approve Plans and Specifications for the Hardy Street Paving Project (21st Avenue to West Pine Street) and authorize advertisement for bids.

Recommendation Statement

I recommend approval of this item.

Please place this on the August 4, 2020 City Council meeting for consideration.

***CONTRACT DOCUMENTS AND TECHNICAL
SPECIFICATIONS***

FOR

HARDY STREET PAVING PROJECT

FOR THE

**CITY OF HATTIESBURG
HATTIESBURG, MISSISSIPPI
FORREST COUNTY**



JULY 2020

PREPARED BY



NEEL-SCHAFER
Solutions you can build upon

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ADVERTISEMENT FOR BIDS

**HARDY STREET PAVING PROJECT
CITY OF HATTIESBURG, MISSISSIPPI**

Sealed bids will be received by the City of Hattiesburg, at the City Clerk's office, Mississippi, hereafter referred to as Owner, located at 200 Forrest Street, Hattiesburg, Mississippi, 39401, until 10:00 A.M., Local Time, Thursday, **September 17**, 2020 for supplying all labor, equipment, and materials (as specified) necessary for the construction of the above referenced project. Work consists milling and overlay of Hardy Street from 21st Avenue to West Pine Street. When bids are submitted electronically, the same requirements for submitting sealed bids shall apply. Electronic bids shall be submitted online at www.hattiesburgsbids.com and shall include a document representing the cover of the envelope containing the aforementioned criteria.

The above general outline of features of the work does not in any way limit the responsibility of the Contractor to perform all work and furnish all labor, equipment and materials required by the specifications and the drawings referred to therein.

Bidder must be qualified under Mississippi Law and show current Certificate of Responsibility issued by the Mississippi State Board of Public Contractors establishing his classification as to the value and type of construction on which he is authorized to bid.

Each Bidder shall write his Certificate of Responsibility Number on the outside of the sealed envelope containing his proposal.

Proposals shall be submitted in duplicate, sealed and deposited with the Owner prior to the hour and date hereinbefore designated. No bidder may withdraw his bid within 90 days after the actual date of the opening thereof.

Awarding public contracts to non-resident Bidders will be on the same basis as the non-resident bidder's state awards contracts to Mississippi Contractors bidding under similar circumstances. In order to ensure that Mississippi's so-called Golden Rule is followed state law requires a non-resident bidder is to attach to his bid a copy of his resident state's current laws pertaining to such state's treatment of non-resident contractors.

Each Bidder must deposit with his proposal, a Bid Bond or Certified Check in an amount equal to five percent of his bid, payable to the Owner, as bid security. Bidders shall also submit a current financial statement, if requested, by the Owner. The successful bidder will be required to furnish a Payment Bond and Performance Bond each in the amount of 100 percent of the contract amount.

Bid documents are being made available via paper copy or pdf. All interested bidders are required to log-in or register for an account at www.hattiesburgsbids.com OR www.neel-schafferplans.com to view and order Bid Documents. All plan holders are required to have a valid email address for registration. Bid documents are non-refundable and must be purchased through the website. Questions regarding website registration and online orders please contact Plan House Printing at (601) 336-6378.

"Mississippi Standard Specifications for Road and Bridge Construction, 2017 Edition" as referred to herein, may be purchased from the Mississippi Department of Transportation.

The Owner hereby notifies all Bidders that it will affirmatively insure that in any contract entered into pursuant to this advertisement, disadvantaged and women's business enterprises will be afforded the full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

The Engineer is Neel-Schaffer, Inc., 704 Hardy Street, Hattiesburg, Mississippi 39401; Phone No. (601) 545-1565, Fax No. (601)-545-2267. Jeffery Lee, P.E. – Vice President.

The Owner reserves the right to reject any and all bids and to waive any informalities or irregularities therein.

BY: _____
City Clerk
City of Hattiesburg, Mississippi

DATES OF PUBLICATION:

August 12, 2020

August 19, 2020

INSTRUCTIONS TO BIDDERS

HARDY STREET PAVING PROJECT CITY OF HATTIESBURG, MISSISSIPPI

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1. COORDINATION OF SPECIFICATIONS

Work under this Contract shall be performed in accordance with the Contract Documents, which includes General Conditions, Supplementary Conditions and Technical Specifications contained therein. Division 200 through 800 of the *Mississippi Standard Specifications for Road and Bridge Construction*, 2017 Edition (can be downloaded at www.gomdot.com) is made a part hereof as if it were attached hereto, except where superseded and/or supplemented by the technical specifications and special provisions contained herein.

2. DATE AND PLACE OF OPENING OF PROPOSALS

The date, time, and place for opening Proposals will be as set out in the published "Advertisement for Bids."

The Owner reserves the right to postpone the date for presentation and opening of Proposals and will give notice of any such postponement to each known prospective Bidder.

3. FORM FOR PROPOSALS

Proposals must be submitted in duplicate on the forms furnished by the Owner and the envelope containing the Proposals must be sealed and addressed to:

City Clerk
City of Hattiesburg
200 Forrest Street
Hattiesburg, Mississippi 39401

The outside of the envelope containing the Proposal shall bear the inscription:

**SEALED BID FOR: HARDY STREET PAVING PROJECT
CITY OF HATTIESBURG, MISSISSIPPI**

BY _____

Certificate of Responsibility No. _____

State License No. _____

The duplicate Proposals shall be in the form of one original Proposal, marked "ORIGINAL" and one photocopy (Xerox or similarly reproduced copy) marked "PHOTOCOPY" of the original Proposal.

If Proposals are forwarded by the U.S. Postal Service, delivery shall be by Registered or Certified Mail.

4. PREQUALIFICATION

All Bidders must be in good standing with the Owner. Bidders who are not in good standing with the Owner will not be considered for award of the contract. Good standing includes, among other things: (a) whether Bidder has failed to successfully complete the work or punchlist items under another Owner contract; (b) whether Bidder is currently, or has been in the past five years, involved in litigation with the Owner regarding work under another Owner contract, either as a general contractor or subcontractor; (c) whether Bidder has been or is currently in default under another Owner contract the past five years. with the Owner; or (d) whether Bidder has failed to fulfill provisions of another Owner contract within

5. CERTIFICATE OF RESPONSIBILITY

Prior to filing Bids on Owner projects (in excess of \$50,000), the prospective Bidder must obtain a Certificate of Responsibility from the Mississippi State Board of Public Contractors, establishing his classification as to the value and the type of construction on which he is authorized to bid. Application must be submitted to the Board at least 30 days prior to a regular Board meeting scheduled every Quarter on the first Tuesday of January, April, July and October.

6. ANNUAL LICENSE TO BID (Not Used)

7. CHARGES FOR PROPOSALS, PLANS AND SPECIFICATIONS

Prospective Bidders may obtain Proposal forms including one copy of Contract Documents upon payment of the amount of money stipulated in the "Advertisement for Bids."

No refunds will be made for return of Plans or Specifications.

In the event all Bids are rejected and the Project is re-advertised, the original Bidders shall **NOT** be entitled to free Bidders Proposal forms for the subsequent letting.

8. OMISSIONS AND DISCREPANCIES

Should a Bidder find discrepancies, errors or omissions in the Drawings or Specifications, or should he be in doubt as to the correctness of the Plan details, dimensions and layout, he should immediately notify the Engineer in order to permit checking and any necessary revisions or modifications.

9. ADDENDA

Prior to the date set for opening of Bids, the right is reserved, in the interests of the Owner, as it may require, to revise or amend the Contract Documents. Such revisions, if any, will be announced by an Addendum or Addenda, and copies of such Addenda will be furnished to all prospective Bidders who have purchased Plans and Specifications for acknowledgment by return fax. If the revisions and Addenda are of a nature which require material changes in quantities or prices Bid, or both, the date set for opening Bids may be postponed to enable Bidders to revise their Bids. In such case, the Addendum or Addenda will include an announcement of the new date for opening Bids.

10. INTERPRETATIONS

No oral interpretation made to any Bidder as to the meaning of the Contract Documents shall be considered an effective modification of any of the provisions of the Contract Documents. In order to ensure appropriate and concise responses, and avoid any misinterpretations, no verbal questions will be received. Written requests for interpretation of the Plans and Specifications shall be submitted to the Engineer at least 10 days prior to opening of Proposals so that a formal decision can be given in writing to all known prospective Bidders in the form of an Addendum. The Contract Document contains the provisions required for the construction of the Project. Information obtained from an officer, agent, or employee of the Owner or any other person shall not affect the risks or obligations assumed by the Contractor or relieve him from fulfilling any of the conditions of the Contract.

11. BID SECURITY

All Bids shall be accompanied by a Bid Security in the form of a Certified Check upon a national or state bank or a Bid Bond made by a bonding company registered in the State of Mississippi, drawn and made payable to the Owner in an amount equal to five percent of the Bid. The Certified Check or Bid Bond must be enclosed in the same envelope with the Bid. Except as noted below, the Bid Security of all known unsuccessful Bidders will be returned promptly after a Notice of Award has been sent to the successful Bidder or in the event that all Bids are rejected.

The Bid Security of the next two lowest qualified Bidders will be retained until the Contract has been executed with the lowest qualified Bidder. The Bid Security of the successful Bidder will be returned when satisfactory Performance and Payment Bonds have been furnished and approved and the Contract executed.

12. GENERAL INFORMATION

Bidders shall inform themselves and comply with all pertinent Owner regulations and ordinances, State and Federal laws, licenses and tax liabilities which may in any manner affect their Bids and the prosecution of the work. The successful bidder will be responsible for obtaining all building, plumbing, and electrical permits required by the local city government. Special attention is directed to the rules and regulations published by the Mississippi State Tax Commission outlining certain taxes imposed on Contractors by the state of Mississippi.

13. REJECTION OF PROPOSAL

Proposals may be rejected in the case of any omission, alterations of forms, additions or conditions not called for, unauthorized alternate Bids, incomplete Bids, erasures or irregularities of any kind. Bids received conditioning their consideration or rejection upon Bids for the other work submitted by the same Bidder may be classed as irregular, unless the Contract Documents specifically invite or permit conditional or combination Bids. Bids in which the prices obviously are unbalanced may be rejected.

14. CONDITIONS OF WORK

Each Bidder must inform himself fully of the conditions relating to the construction of the Project and the employment of labor thereon. Failure to do so will not relieve a successful Bidder of his obligation to furnish all materials and labor necessary to carry out the provisions of his Contract. Insofar as possible, the Contractor, in carrying out his work, must employ such methods or means as

will not cause any interruption of or interference with the work of any other Contractor.

15. SECURITY FOR FAITHFUL PERFORMANCE

Simultaneously with his delivery of the Executed Contract, the Contractor shall furnish a Performance Bond and a Payment Bond each in the sum of 100% of the Contract amount as security for faithful performance of his Contract and for the payment of all persons performing labor on the Project under his Contract and furnishing materials in connection with his Contract, as specified in the Contract Documents. The surety of such Bonds shall be issued by a duly authorized surety company listed on the Treasury Department's most current list Circular 570 (as amended) and satisfactory to the Owner.

Attorneys in fact who sign Bid Bonds or Payment Bonds and Performance Bonds must file with each bond a certified and effective dated copy of their Power of Attorney. Failure of the successful Bidder to execute the Contract and to supply the required bonds within 10 calendar days from the date that the Notice of Award is delivered, or within such extended period as the Owner may grant based upon reasons determined sufficient by the Owner, shall constitute a default, and the Owner, at his discretion, may either award the Contract to the next lowest qualified Bidder or readvertise for Bids, and may charge against the Bidder the difference between the amount for which a Contract for the work is subsequently executed, irrespective of whether the amount thus due exceeds the amount of the Bid Bond. If a more favorable bid is received by readvertising, the defaulting Bidder shall have no claim against the Owner for a refund. The Contractor's bond will not be released until all provisions of the Contract have been fulfilled.

16. INSURANCE

The Contractor will be required to carry the types and amounts of insurance named in the Contract Documents for the full life of the Contract.

17. SUBCONTRACTORS

Bidders are specifically advised that any person, firm or other party to whom it is proposed to award a Subcontract must be acceptable to the Owner. Nothing contained in the Contract Documents shall create any contractual relation between subcontractor and the Owner.

18. METHOD OF AWARD – LOWEST RESPONSIVE BIDDER

The Owner will award the Contract to the lowest and best Bid unless all Bids are rejected. The award will be based on the evaluation of the low bid for the total base bid or the total alternate bid as decided upon by the Owner.

The responsiveness of the low Bidder shall be determined by (1) the completeness and regularity of the Bidders Proposal; (2) the Bidders Proposal being without exclusions or special conditions; (3) the Bid Form having no alternative Bids for any item unless requested in the Technical Specifications; and (4) such other factors as may be considered under State law, Federal law or regulation.

The evaluation of the low bidder will be based on whether the Bidder (1) maintains a permanent place of business; (2) has adequate plant equipment to do the work properly and within the time limit that is established; (3) has adequate financial status to meet his obligations contingent to the work; (4) has adequate manpower and present workload is such that he can perform according to a reasonable

schedule; and (5) such other factors as may be considered under State law, Federal law or regulation.

19. OBLIGATION OF BIDDER

At the time of the opening of Bids, each Bidder will be presumed to have inspected the site and to have read and to be thoroughly familiar with the Plans and Contract Documents (including all Addenda).

The failure or omission of any Bidder to examine any form, instrument or document shall in no way relieve any Bidder from any obligation in respect to his Bid. Submission of Bid shall be accepted as prima facie evidence that Bidder has inspected the site and is familiar with the Plans and Contract Documents.

20. SUBSURFACE DATA

Not Used.

21. EXECUTION OF CONTRACT

If the successful Bidder is a corporation, the officer who signs the Contract shall furnish copies of the resolution of the Directors of the corporation authorizing him to sign the contract. Such resolution should bear the seal of the corporation.

Subject to the applicable provisions of law, the Contract shall be in full force and effect only from and after the date when a fully executed and approved counterpart thereof has been rendered or delivered, or both, to the Contractor or his duly authorized agent or representative. Deposit of said counterpart in the United States mail in an envelope or wrapper properly addressed shall constitute compliance with these provisions by the Owner.

22. INTERCHANGEABLE TERMS

The terms "Bid" and "Proposal" wherever they are used in the Contract Documents are interchangeable and have the same meaning. The terms "Contract" and "Agreement", are interchangeable and have the same meaning. The terms "Contract Drawings" and "Plans", are interchangeable and have the same meaning.

23. QUALIFICATIONS OF BIDDER, OWNER'S RIGHTS

The Owner may make such investigation as it deems necessary to determine the ability of the Bidder to perform the work, and the Bidder shall furnish to the Owner all such information and data for this purpose as the Owner may request. The Owner reserves the right to reject any bid if the evidence submitted by or investigation of such Bidder fails to satisfy the Owner that such Bidder is properly qualified to carry out the obligations of the Contract and to complete the work contemplated therein.

24. MATERIALS AND EQUIPMENT

Whenever materials or equipment are specified or described in the Contract Documents by using the name of a manufacturer, fabricator, supplier, or distributor, the naming of the item in this manner is intended to establish the type, function and quality required. Materials or equipment of other manufacturers, fabricators, suppliers, or distributors may be accepted by the Engineer if sufficient

information is submitted by the Contractor to allow the Engineer to determine that the material or equipment proposed is equivalent to that named in the Contract Documents. Bidders are referred to Section 6.3 of the General Conditions regarding procedures for approval of substitute materials and equipment.

25. NON-RESIDENT BIDDERS

Awarding public contracts to non-resident Bidders will be on the same basis as the non-resident Bidder's state awards contractors to Mississippi Contractors bidding under similar circumstances. In order to ensure that Mississippi's so called "Golden Rule" is followed, state law requires a non-resident Bidder to attach to his bid a copy of his resident state's current laws pertaining to such state's treatment of non-resident contractors.

26. DESIGNATING OWNER AND ENGINEER

Any reference in the Contract Documents to the State of Mississippi, Mississippi Department of Transportation, Mississippi Transportation Commission, or any official thereof shall be interpreted to mean the City of Hattiesburg, Mississippi, the "Owner".

Any reference in the Standard Specifications to the Project Engineer, District Engineer, Office Engineer, or Engineer shall be interpreted to mean the Engineer for the City of Hattiesburg, Mississippi, Neel-Schaffer, Inc.

27. MATERIALS TESTING AND CONSTRUCTION STAKING

The Contractor shall be responsible for all testing of materials associated with the project. Materials shall be tested in accordance to the requirements and frequencies outlined in the *Mississippi Standard Specifications for Road and Bridge Construction* (2017 Edition), and shall be considered an absorbed item.

Contractor shall be responsible for all construction staking as specified (cost absorbed). Construction staking shall also include earthwork quantity calculations for applicable pay items

28. CONTRACT TIME

The Contractor shall commence the work required by the Contract Documents within 10 calendar days after the date of the Notice to Proceed and will retain substantial completion within **60** consecutive calendar days of the Notice to Proceed date unless the period for completion is extended otherwise by the Contract Documents.

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BIDDER'S PROPOSAL

HARDY STREET PAVING PROJECT
CITY OF HATTIESBURG, MISSISSIPPI

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BIDDER'S PROPOSAL

**HARDY STREET PAVING PROJECT
CITY OF HATTIESBURG, MISSISSIPPI**

DATE: _____, 20_____

PROPOSAL OF _____
(Name of Bidder)

(Address of Bidder)

for construction of the Hardy Street Paving Project.

The documents on which this Proposal is based include the Instructions to Bidders, Bid Forms, General Conditions, Supplementary Conditions, Supplemental General Conditions, Technical Specifications, Contract Drawings, and all supplements, amendments and addenda for this Project and are made a part hereof by reference.

**TO: CITY OF HATTIESBURG
200 FORREST STREET
HATTIESBURG, MISSISSIPPI 39401**

Gentlemen:

The following Proposal is submitted on behalf of the undersigned Bidder(s) and no others. Evidence of my (our) authority to submit the Proposal is hereby furnished. The Proposal is submitted without collusion on the part of any person, firm or corporation.

I (We), the undersigned Bidder(s), certify that I (we) have carefully examined the Instructions to Bidders, Bid Forms, General Conditions, Supplemental Conditions, Technical Specifications, Contract Drawings and any and all Addenda thereof.

I (We) further certify that I, (we) have visited and carefully examined the site of the proposed Work and have inspected the location and condition of all public utilities and existing structures or other facilities on the site or adjacent thereto which may be affected by the proposed construction and fully understand all conditions relative to construction difficulties, hazards, labor, transportation and all other factors affecting the prosecution of the work covered by this Proposal.

I (We) understand that the quantities mentioned below are approximate only and are subject to either increase or decrease, and hereby propose to perform any increased or decreased quantities of work at the unit prices bid. No increase in quantities of work shall be performed until a written change order is duly executed in advance and approved in the public minutes of the Owner.

In accordance with the requirements of the Instructions to Bidders, Bid Forms, Federal Supplement to Bidder's Proposal, Technical Specifications, General Conditions, Supplementary Conditions, Contract

Drawings, and any Addenda, I (we) propose to furnish all necessary materials, equipment, labor, tools and other means of construction and will do all Work called for by the Contract Documents within the specified Contract Time. The following is my (our) itemized proposal for the project:

Prices Bid and Approximate Quantities – Base Bid

Pay Item	Description	Qty	Unit	Unit Price	Price Extension
202-B	REMOVAL OF PAVEMENT, ALL DEPTHS	150	SY		
202-B	REMOVAL OF CONCRETE COMBINATION CURB & GUTTER	190	LF		
202-B	REMOVAL OF CONCRETE PAVEMENT, FAILED AREAS	15	SY		
202-B	REMOVAL OF CONCRETE SIDEWALK	30	SY		
203-G	EXCESS EXCAVATION, FM, AH	30	CY		
304-G	SIZE 610 CRUSHED STONE BASE, AEA	30	CY		
403-A	19-mm ST, ASPHALT PAVEMENT	10	TON		
403-A	9.5-mm, ST, ASPHALT PAVEMENT	3,691	TON		
403-B	9.5-mm, ST, ASPHALT PAVEMENT, LEVELING	1,845	TON		
406-D	FINE MILLING OF BITUMINOUS PAVEMENT, ALL DEPTHS	44,745	SY		
407-A	ASPHALT FOR TACK COAT	6,711	GALLON		
608-A	CONCRETE SIDEWALK, WITHOUT REINFORCEMENT	30	SY		
609-D	COMBINATION CURB AND GUTTER, TYPE I MODIFIED	190	LF		
907-608-1	ASPHALT PAVEMENT TEXTURING	10,340	SF		
613-D	ADJUSTMENT OF INLET	1	EA		
613-D005-PP	ADJUSTMENT OF MANHOLE, ADD CONCRETE PAD	46	EA		
613-D011-PP	ADJUSTMENT OF WATER VALVE, ADD CONCRETE PAD	16	EA		
618-A	MAINTENANCE OF TRAFFIC	1	LUMP SUM	XXXX	
620-A	MOBILIZATION	1	LUMP SUM	XXXX	

626-A	6" THERMOPLASTIC TRAFFIC STRIPE, SKIP WHITE	11,974	LF		
626-E	6" THERMOPLASTIC TRAFFIC STRIPE, CONTINUOUS YELLOW	14,450	LF		
626-G	THERMOPLASTIC DETAIL STRIPE, WHITE	595	LF		
626-G	THERMOPLASTIC DETAIL STRIPE, YELLOW	1,414	LF		
626-H	THERMOPLASTIC LEGEND, WHITE (6" EQUIV.)	2,787	LF		
626-H	THERMOPLASTIC LEGEND, WHITE	613	SF		
627-K	RED-CLEAR REFLECTIVE HIGH PERFORMANCE RAISED MARKERS	30	EA		
627-L	TWO-WAY YELLOW REFLECTIVE HIGH PERFORMANCE RAISED MARKERS	1,061	EA		
TOTAL BASE BID \$					

ALTERNATE BID AMOUNT \$	Contractor shall perform all work between the hours 6PM to 6AM: ADD or DEDUCT (Circle One): Lump Sum	\$ _____
-------------------------	--	----------

TOTAL BID AMOUNT \$	Sum of Total Base Bid and Alternate Bid Amount	\$ _____
----------------------------	--	----------

THE BIDDER'S TOTAL ABOVE IS HIS TOTAL BID BASED ON HIS UNIT PRICES AND LUMP SUM PRICES AND THE ESTIMATED QUANTITIES. THIS FIGURE IS FOR INFORMATION ONLY AT THE TIME OF OPENING BIDS. THE OWNER WILL MAKE THE BID TABULATION FROM THE UNIT PRICES AND LUMP SUM PRICES BID. IF THERE IS AN ERROR IN THE TOTAL BY THE BIDDER, IT SHALL BE CHANGED AS ONLY THE UNIT PRICES AND LUMP SUM PRICES SHALL GOVERN.

NOTE: FAILURE OF BIDDER TO INCLUDE PRICES FOR THE ALTERNATE BID ITEMS MAY RENDER HIS PROPOSAL NON-RESPONSIVE.

NOTE: Bids shall include sales tax and all other applicable taxes and fees.

I (We) further propose to execute the Contract Agreement as bound herein within ten working days after receipt of Contract Forms from the Owner and to complete the work within the contract time. I (We) agree to pay as liquidated damages the actual costs, expenses and other losses reasonably incurred by Owner for each consecutive calendar day beyond the specified Contract Time.

I (We) also propose to execute a Performance Bond and a Payment Bond, as shown in the Specifications, each in an amount of not less than one hundred percent (100%) of the total of my (our) Bid. These Bonds shall not only serve to guarantee the completion of the Work on my (our) part, but also to guarantee the excellence of both workmanship and materials until the Work is finally accepted.

I (We) enclose a Bid Bond or Certified Check for 5 percent of _____
_____, DOLLARS (\$_____)
(Base Bid Amount)

and hereby agree that in case of my (our) failure to execute the Contract and furnish the Bonds within ten calendar days after delivery of the Notice of Award, the amount of this check (Bid Bond) will be forfeited to the Owner as liquidated damages arising out of my (our) failure to execute the Contract as proposed.

It is understood that in case I (we) am (are) not awarded the Work, the Certified Check or Bid Bond submitted as Bid security will be returned as stipulated in the Contract Documents.

Bidder acknowledges receipt of the following Addenda:

No. _____	Dated _____	No. _____	Dated _____
No. _____	Dated _____	No. _____	Dated _____
No. _____	Dated _____	No. _____	Dated _____
No. _____	Dated _____	No. _____	Dated _____

Respectfully Submitted,

Contractor(s)

By: _____
Title

Address

BIDDER'S CORPORATE DECLARATION
(TO BE FILLED IN IF BIDDER IS A CORPORATION)

Date: _____, 20_____.

Our corporation is chartered under the Laws of the state of _____ and the names, titles and business addresses of the executives are as follows:

President

Secretary

Treasurer

DECLARATION OF PARTNERSHIP

(To be filled in if a Bidder is a Partnership)

Our Partnership is composed of the following individuals:

Address

Address

NON-COLLUSION AFFIDAVIT

**HARDY STREET PAVING PROJECT
CITY OF HATTIESBURG, MISSISSIPPI**

(THIS AFFIDAVIT MUST BE EXECUTED FOR THE BID TO BE CONSIDERED)

STATE OF _____)
COUNTY OF _____) ss.

_____ being first duly sworn,
(Person)
deposes and says that he is _____

(Sole owner, a partner, president, secretary, etc.)
of _____ the party making the foregoing Proposal or Bid;
(Name of Firm)

that such Bid is genuine and not collusive; that said Bidder is not financially interested in, or otherwise affiliated in a business way with any other bidder on the same contract; that said Bidder has not colluded, conspired, connived, or agreed, directly or indirectly, with any bidder or person, to put in a sham bid, or that such other person shall refrain from bidding, and has not in any manner, directly or indirectly sought by agreement or collusion, or communication or conference, with any person, to fix the bid price of affiant or any other bidder, or to fix any overhead, profit or cost element of said bid price, or of that of any other bidder, or to secure any advantage against the Owner or any person or persons interested in the proposed contract; and that all statements contained in said Proposal or Bid are true; and further, that such Bidder has not, directly or indirectly submitted his Bid, or the contents thereof, or divulged information or data relative thereto to any association or to any member or agent thereof.

Affiant

Sworn to and subscribed before me this _____ day of _____, 20_____.

Notary Public in and for

_____ County,

(SEAL)

My Commission Expires
_____, 20_____.

BID BOND

**HARDY STREET PAVING PROJECT
CITY OF HATTIESBURG, MISSISSIPPI**

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned _____ as Principal, and _____ as Surety, are hereby held and firmly bound unto the Owner, in the penal sum of \$_____ for the payment of which, well and truly to be made, we hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors and assigns. Signed this ____ day of _____, 20 _____.

The condition of the above obligation is such that whereas the Principal has submitted to the Owner, a certain bid, attached hereto and hereby made a part hereof to enter into a contract in writing for the above referenced project.

NOW THEREFORE,

- (a) If said Bid shall be rejected, or in the alternate,
- (b) If said Bid shall be accepted and the Principal shall execute and deliver a contract in the Form of Contract attached hereto (properly completed in accordance with said Bid) and shall furnish a bond for his faithful performance of said contract, and for the payment of all persons performing labor or furnishing materials in connection therewith, and shall in all other respects perform the agreement created by the acceptance of said Bid,

then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

The surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by any extension of the time within which the Owner may accept such Bid; and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to signed by their proper officers, the day and year first set forth above.

Contractor

SEAL

By:_____

Surety

SEAL

By:_____

PROPOSED SUBCONTRACTORS

**HARDY STREET PAVING PROJECT
CITY OF HATTIESBURG, MISSISSIPPI**

The names and addresses of all persons and parties who will be utilized for subcontract Work in the foregoing Bidder's Proposal are listed below. (The Contractor must list all Subcontractors to be utilized on the Work. Failure to list Subcontractors may cause the Bidder's Proposal to be rejected by the Owner as non-responsive.) If the Bidder does not propose Subcontractors, so state.

NAME	ADDRESS

CONTRACT FORMS

**HARDY STREET PAVING PROJECT
CITY OF HATTIESBURG, MISSISSIPPI**

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CONTRACT

**HARDY STREET PAVING PROJECT
CITY OF HATTIESBURG, MISSISSIPPI**

This Contract, made this the _____ day of _____, 20____, by and between the City of Hattiesburg, Mississippi, a municipal corporation, hereinafter called "Owner" and _____ doing business as a _____ located in _____ hereinafter called the "Contractor".

WITNESSETH: That for and in consideration of the payments and agreements hereinafter mentioned:

1. THE CONTRACTOR will commence and complete the "Hardy Street Paving Project" in strict accordance with the Contract Documents and the Contract Drawings.
2. The Contractor will commence the work required by the CONTRACT DOCUMENTS within 10 calendar days after the date of the NOTICE TO PROCEED and will attain Final Completion within the contract time stipulated in the INSTRUCTION TO BIDDERS unless the period for completion is extended otherwise by the CONTRACT DOCUMENTS.
The Contractor agrees to pay, as liquidated damages, the actual damages, costs, losses and expenses reasonably incurred by Owner for each consecutive calendar day that he shall be in default in attaining Final Completion within the time stipulated as provided herein.
3. The term "CONTRACT DOCUMENTS" means and includes Advertisement for Bids, Instructions to Bidders, Bidder's Proposal, Bid Bond, Contract, Payment Bond, Performance Bond, General Conditions, Supplementary Conditions, Technical Specifications, Contract Drawings, Notice of Award, Notice to Proceed, Addenda (if any), and all subsequent Change Orders, Supplemental Agreements and/or other modifications as if formally recopied in this Contract.
4. The Contractor agrees to furnish all materials in place and to faithfully complete all of said work contemplated by this Contract in good and workmanlike manner, strictly in accordance with said Contract Documents, Contract Drawings and other requirements of the Owner, and to the complete satisfaction of the Owner or his authorized representatives, and in accordance with the Laws of the state of Mississippi and the Ordinances of the Owner, for which the Owner hereby agrees to pay and the Contractor agrees to accept a sum of money in current funds equal to the contract amount of _____ (\$ _____) plus the amount of any supplemental agreements and force accounts for extra work authorized and duly set forth in a written change order approved and executed by the Owner and set forth in the public minutes of the Owner and in full compensation for furnishing all materials, the doing of all work contemplated under the Contract, as well as all loss or damage, if any, arising out of the nature of the work, or the action of the weather, and any and all other unforeseen obstructions or difficulties that may be encountered in the prosecution of the same, the Contractor assuming all risks of every kind and description in the performance of this Contract.
5. The Contractor shall protect, indemnify and save harmless the Owner from and against any and all damage, loss, claims, judgments or expenses, including but not limited to reasonable

attorney's fees, which the Owner may suffer or be subjected to by the performance of the work, including but without limitation injury to or death of any person whomever and destruction or damage to any property whatsoever.

6. Attached hereto and made a part of this Contract is a Performance Bond, executed by a Surety Company doing business in the state of Mississippi, in the sum of

(\$_____).
7. Attached hereto and made a part of this Contract is a Payment Bond, executed by a Surety Company doing business in the state of Mississippi, in the sum of

(\$_____).
8. The Contractor agrees to allow the Owner, or any of their duly authorized representatives, access to any books, documents, papers and records of the Contractor which are directly pertinent to the project which is the subject of this Contract, for the purpose of making audits, examinations, excerpts and transcriptions, and Contractor agrees to insert an identical clause in any and all subcontracts.
9. The Owner will pay to the Contractor in the manner and at such times and amounts as set forth in the Contract Documents.
10. This Contract shall be binding upon all parties hereto and their respective heirs, executors, administrators, successors, and assigns.
11. If, through any cause, the Contractor shall fail to fulfill in a timely and proper manner his obligations under this Contract, or if the Contractor shall violate any of the covenants, agreements, or stipulations of this Contract, the Owner shall thereupon have the right to terminate this Contract by giving written notice to the Contractor of such termination and specifying the effective date thereof, at least five days before the effective date of such termination. Notwithstanding the above, the Contractor shall not be relieved of liability to the Owner for damages sustained by the Owner by virtue of any breach of the Contract by the Contractor and the Owner may withhold any payments to the Contractor until such time as the exact amount of damages due the Owner from the Contractor is determined.

IN WITNESS THEREOF, the parties hereto have executed, or caused to be executed by their duly authorized officials, this Contract in _____ counterparts, each of which shall be deemed an original on the date first above written. (number)

OWNER

CONTRACTOR

BY _____

BY _____

ATTEST _____

ATTEST _____

(Seal)

(Seal)

PARTNERSHIP CERTIFICATE

State of _____

County of _____ Ss.

On this _____ day of _____, 20_____, before me personally appeared _____, known to me and known by me to be the person who executed the above instrument, who being by me first duly sworn, did depose and say that he is a general partner in the firm of _____; that said firm consists of himself and _____; and that he executed the foregoing instrument on behalf of said firm for the uses and purposes stated herein.

Notary Public in the

County of _____

State of _____

Notary Seal

My Commission Expires:

CORPORATE CERTIFICATE

I, _____ certify that I am the Secretary of the Corporation named as Contractor in the foregoing Contract; that _____, who signed said Contract on behalf of the Contractor was then _____ of said Corporation; that said Contract was duly signed for and in behalf of said Corporation by authority of its governing body and is within the scope of its corporate powers.

Secretary

Corporate Seal

GENERAL INSTRUCTIONS FOR BONDS

1. The surety on each Bond must be a responsible surety company, which is qualified to do business in Mississippi and satisfactory to the Owner.
2. The name, including full Christian name and residence of each individual party to the Bond shall be inserted in the body thereof, and each such party shall sign the Bond with his usual signature on the line opposite the seal and if signed in Maine, Massachusetts or New Hampshire an adhesive seal shall be affixed opposite the signature. The bond must be either signed or countersigned by a Mississippi Resident Agent of the Surety Company.
3. If the principals are partners, their individual names will appear in the body of the Bond with the recital that they are partners composing a firm, naming it; and all the members of the firm shall execute the Bond as individuals.
4. The signature of a witness shall appear in the appropriate place, attesting to the signature of each individual party to the Bond.
5. If the principal or surety is a corporation, the name of the State in which incorporated shall be inserted in the appropriate place in the body of the Bond, and said instrument shall be executed and attested under the corporate seal as indicated in the form. If the corporation has no corporate seal the fact shall be stated, in which case, a scroll or adhesive seal shall appear following the corporate name.
6. The official character and authority of the person or persons executing the Bond for the principal, if a corporation, shall be certified by the secretary or assistant secretary, according to the form attached hereto. In lieu of such certificate there may be attached to the Bond copies of so much of the records of the corporation as will show the official character and authority of the officer signing, duly certified by the secretary or assistant secretary, under the corporate seal, to be true copies.
7. The date of this Bond must not be prior to the date of the Contract in connection with which it is given.
8. Surety Companies executing Bonds must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the State where the project is located.

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS: that

(Name of Contractor)

(Address of Contractor)

a _____ hereinafter called Principal, and
(Corporation, Partnership, or Individual)

(Name of Surety)

(Address of Surety)

hereinafter called Surety, are held and firmly bound unto _____

(Name of Owner)

(Address of Owner)

hereinafter called OWNER, in the penal sum of _____ Dollars,
\$(_____) in lawful money of the United States, for the payment of which sum well
and truly to be made, we bind ourselves, successors, and assigns, jointly and severally, firmly by these
presents.

THE CONDITION OF THIS OBLIGATION is such that whereas, the Principal entered into a certain
contract with the OWNER, dated _____ day of _____ 20 _____,
a copy of which is hereto attached and made a part hereof for the construction of :

NOW, THEREFORE, if the Principal shall well, truly and faithfully perform its duties, all the undertakings,
covenants, terms, conditions, and agreements of said contract during the original term thereof, and any
extensions thereof which may be granted by the OWNER, with or without notice to the Surety and during the
one year guaranty period, and if he shall satisfy all claims and demands incurred under such contract, and
shall fully indemnify and save harmless the OWNER from all costs and damages which it may suffer by
reason of failure to do so, and shall reimburse and repay the OWNER all outlay and expense which the
OWNER may incur in making good any default, then this obligation shall be void; otherwise to remain in full
force and effect.

NOW, THEREFORE, if the Principal shall promptly make payment of all taxes, licenses, assignments,
contributions, damages, penalties, and interest thereon, when and as the same may lawfully be due the state of
Mississippi, or any county, municipality, board, department, commission, or political subdivision thereof, by
reason of and directly connected with the performance of said Contract or any part thereof as provided by
Sections 27-65-1, 27-65-21, 27-67-301 and 31-5-3, supra, or any other applicable statute or other authority,
then this obligation shall be null and void; otherwise, it shall remain in full force and effect.

PROVIDED, FURTHER, that the said Surety for value received hereby stipulates and agrees that no change,

00500-7

extension of time, alteration or addition to the terms of the contract or to the WORK to be performed thereunder or the SPECIFICATIONS accompanying the same shall in any wise affect its obligation on this BOND, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the WORK or to the SPECIFICATIONS.

PROVIDED, FURTHER, that no final settlement between the OWNER and the CONTRACTOR shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this statement is executed in _____ counterparts, each one of which shall
(number)
be deemed an original, this the _____ day of _____, 20 _____.

ATTEST:

(Principal) Secretary
(Seal)

Principal
By _____

(Address)

Witness as to Principal

(Address)

ATTEST:

Surety
By _____

Witness as to Surety

(Address)

(Address)

NOTE: Date of BOND must not be prior to date of Contract.
 If CONTRACTOR is Partnership, all partners should execute BOND.

IMPORTANT: Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the State where the PROJECT is located.

KNOW ALL MEN BY THESE PRESENTS THAT

(Address of Contractor)

(Corporation, Partnership, or Individual)

(Name of Surety)

hereinafter called Surety, are held and firmly bound unto

(Address of Owner)

Dollars, \$(

THE CONDITION OF THIS OBLIGATION is such that whereas, the Principal entered into a certain contract with the OWNER, dated the _____ day of _____ 20 _____, a copy of which is hereto attached and made a part hereof for the construction of:

PROVIDED, FURTHER, that no final settlement between the OWNER and the CONTRACTOR shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this statement is executed in _____ counterparts, each one of which shall
(number)
be deemed an original, this the _____ day of _____, 20 _____.

ATTEST:

(Seal) (Principal) Secretary

By _____ Principal

(Address)

Witness as to Principal

(Address)

ATTEST:

Surety

By _____

Witness as to Surety

(Address)

(Address)

NOTE:

Date of BOND must not be prior to date of Contract.

If CONTRACTOR is Partnership, all partners should execute BOND.

IMPORTANT:

Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the State where the PROJECT is located.

NOTICE OF AWARD

00500-10

Date _____

TO: _____

RE: Hardy Street Paving Project
City of Hattiesburg, Mississippi

NOTICE OF AWARD

Gentlemen:

The Owner has considered the Proposal submitted by you for the above referenced Work in response to its Advertisement for Bids and Instructions to Bidders.

You are hereby notified that your Proposal has been accepted in the amount of \$_____.

You are required by the Instruction to Bidders to execute the Contract and furnish to the Owner the required Contractor's Performance Bond, Payment Bond and certificates of insurance within 10 calendar days from the date of delivery of this Notice to you. We have enclosed five copies of the necessary contract forms and bond forms. Please return all five copies of these documents to the offices of Neel-Schaffer, 704 Hardy Street, Hattiesburg, MS 39401.

If you fail to execute said Contract and to furnish said Bonds within 10 days from the date of delivery of this Notice, the Owner will be entitled to consider all your rights arising out of the Owner's acceptance of your proposal as abandoned and as a forfeiture of your Bid Bond. The Owner will be entitled to such other rights as may be granted by Law.

You are required by the General Conditions and Supplementary Conditions to submit to Neel-Schaffer, Inc. an estimated progress schedule, a preliminary schedule of Shop Drawing submissions and a preliminary schedule of values of the Work within 10 days after the effective date of this Contract, all in accordance with Article 2.5 of the General Conditions.

You are required to return an acknowledged copy of this Notice of Award directly to the City of Hattiesburg, Mississippi, Attention: Lamar Rutland, P.E., and to Neel-Schaffer, Inc.

Sincerely,

NEEL-SCHAFFER, INC.

Jeffery L Lee, P.E.

Vice President

c: Lamar Rutland, P. E.
City of Hattiesburg
200 Forrest Street
Hattiesburg, MS 39401

ACCEPTANCE OF NOTICE

Receipt of the above Notice of Award is hereby acknowledged by _____ this, the
_____ day of _____, 20_____.

By _____

Title _____

NOTICE TO PROCEED

Date _____

To: _____

Attention: _____

REFERENCE: NOTICE TO PROCEED
HARDY STREET PAVING PROJECT
CITY OF HATTIESBURG, MISSISSIPPI

Dear _____:

You are hereby notified to commence Work in accordance with the Contract dated _____, on or before _____. You are to complete the Work within ____ consecutive calendar days from the effective date of this Notice to Proceed. The date of Final Completion is therefore _____. Liquidated damages in the amount of the actual damages, costs, losses and expenses reasonably incurred by the OWNER per calendar day for each day the Work has not achieved Final Completion after _____ will be imposed unless the contract time is otherwise adjusted for due cause by change orders to the Contract. Liquidated Damages, as defined herein, will be assessed unless the Contract Time is otherwise adjusted for due cause by change order to the Contract.

The engineering firm of Neel-Schaffer, Inc. will act as the Engineer on behalf of the City of Hattiesburg, Mississippi for the work to be performed under the contract. Jeffery L. Lee, P.E., of Neel-Schaffer, Inc. will be the designated representative of the Engineer.

Please return a copy of this NOTICE TO PROCEED and ACCEPTANCE OF NOTICE to the undersigned and to Neel-Schaffer, Inc., indicating your receipt of this document in the space provided below.

Sincerely,

City of Hattiesburg, Mississippi

Mayor Toby Barker

ACCEPTANCE OF NOTICE

Receipt of the above NOTICE TO PROCEED

is hereby acknowledged by _____

this, the _____ day

of _____, 20_____.

By _____

Title _____

CONTRACT CHANGE ORDER

OWNER: _____ PROJECT NAME: _____

CONTRACTOR: _____

DATE: _____

CHANGE ORDER NUMBER: _____ CONTRACT NUMBER: _____

REASON FOR CHANGE: _____

YOU ARE HEREBY REQUESTED TO COMPLY WITH THE FOLLOWING CHANGES FROM THE CONTRACT
PLANS, SPECIFICATIONS AND CONTRACT DOCUMENTS: (USE ADDITIONAL SHEETS IF REQUIRED)

ITEM NO.	DESCRIPTION OF CHANGE(S) (QUANTITIES, ETC.)	QTY	UNIT COST	TOTAL CONTRACT
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00
				0.00

TOTAL CONTRACT CHANGE	\$
	TOTAL CONTRACT
ORIGINAL CONTRACT AMOUNT:	\$
CURRENT CONTRACT AMOUNT:	\$
THIS CONTRACT CHANGE	
REVISED CONTRACT AMOUNT:	\$
CURRENT CONTRACT COMPLETION DATE:	
TIME EXTENSION REQUIRED BY CHANGE:	
REVISED CONTRACT COMPLETION DATE:	
THIS DOCUMENT SHALL BE AN AMENDMENT TO THE CONTRACT AND ALL PROVISIONS OF THE CONTRACT WILL APPLY. RECOMMENDED BY: _____ ENGINEER _____ DATE _____ NEEL-SCHAFFER, INC. ACCEPTED BY: _____ CONTRACTOR _____ DATE _____	

**Engineers Joint Documents Committee
Design and Construction Related Documents
Instructions and License Agreement**

Instructions

Before you use any EJCDC document:

1. Read the License Agreement. You agree to it and are bound by its terms when you use the EJCDC document.
2. Make sure that you have the correct version for your word processing software.

How to Use:

1. While EJCDC has expended considerable effort to make the software translations exact, it can be that a few document controls (e.g., bold, underline) did not carry over.
2. Similarly, your software may change the font specification if the font is not available in your system. It will choose a font that is close in appearance. In this event, the pagination may not match the control set.
3. If you modify the document, you must follow the instructions in the License Agreement about notification.
4. Also note the instruction in the License Agreement about the EJCDC copyright.

License Agreement

You should carefully read the following terms and conditions before using this document. Commencement of use of this document indicates your acceptance of these terms and conditions. If you do not agree to them, you should promptly return the materials to the vendor, and your money will be refunded.

The Engineers Joint Contract Documents Committee ("EJCDC") provides **EJCDC Design and Construction Related Documents** and licenses their use worldwide. You assume sole responsibility for the selection of specific documents or portions thereof to achieve your intended results, and for the installation, use, and results obtained from **EJCDC Design and Construction Related Documents**.

You acknowledge that you understand that the text of the contract documents of **EJCDC Design and Construction Related Documents** has important legal consequences and that consultation with an attorney is recommended with respect to use or modification of the text. You further acknowledge that EJCDC documents are protected by the copyright laws of the United States.

License:

You have a limited nonexclusive license to:

1. Use **EJCDC Design and Construction Related Documents** on any number of machines owned, leased or rented by your company or organization.
2. Use **EJCDC Design and Construction Related Documents** in printed form for bona fide contract documents.
3. Copy **EJCDC Design and Construction Related Documents** into any machine readable or printed form for backup or modification purposes in support of your use of **EJCDC Design and Construction Related Documents**.

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This Agreement shall be governed by the laws of the State of Virginia. Should you have any questions concerning this Agreement, you may contact EJCDC by writing to:

Arthur Schwartz, Esq.
General Counsel
National Society of Professional Engineers
1420 King Street
Alexandria, VA 22314

Phone: (703) 684-2845
Fax: (703) 836-4875
e-mail: aschwartz@nspe.org

You acknowledge that you have read this agreement, understand it and agree to be bound by its terms and conditions. You further agree that it is the complete and exclusive statement of the agreement between us which supersedes any proposal or prior agreement, oral or written, and any other communications between us relating to the subject matter of this agreement.

This document has important legal consequences; consultation with an attorney is encouraged with respect to its use or modification. This document should be adapted to the particular circumstances of the contemplated Project and the Controlling Law.

STANDARD GENERAL CONDITIONS OF THE CONSTRUCTION CONTRACT

Prepared by

ENGINEERS JOINT CONTRACT DOCUMENTS COMMITTEE

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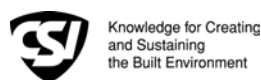
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These General Conditions have been prepared for use with the Suggested Forms of Agreement Between Owner and Contractor Nos. C-520 or C-525 (2002 Editions). Their provisions are interrelated and a change in one may necessitate a change in the other. Comments concerning their usage are contained in the EJCDC Construction Documents, General and Instructions (No. C-001) (2002 Edition). For guidance in the preparation of Supplementary Conditions, see Guide to the Preparation of Supplementary Conditions (No. C-800) (2002 Edition).

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GENERAL CONDITIONS

ARTICLE 1 - DEFINITIONS AND TERMINOLOGY

1.01 *Defined Terms*

A. Wherever used in the Bidding Requirements or Contract Documents and printed with initial capital letters, the terms listed below will have the meanings indicated which are applicable to both the singular and plural thereof. In addition to terms specifically defined, terms with initial capital letters in the Contract Documents include references to identified articles and paragraphs, and the titles of other documents or forms.

1. *Addenda*--Written or graphic instruments issued prior to the opening of Bids which clarify, correct, or change the Bidding Requirements or the proposed Contract Documents.

2. *Agreement*--The written instrument which is evidence of the agreement between Owner and Contractor covering the Work.

3. *Application for Payment*--The form acceptable to Engineer which is to be used by Contractor during the course of the Work in requesting progress or final payments and which is to be accompanied by such supporting documentation as is required by the Contract Documents.

4. *Asbestos*--Any material that contains more than one percent asbestos and is friable or is releasing asbestos fibers into the air above current action levels established by the United States Occupational Safety and Health Administration.

5. *Bid*--The offer or proposal of a Bidder submitted on the prescribed form setting forth the prices for the Work to be performed.

6. *Bidder*--The individual or entity who submits a Bid directly to Owner.

7. *Bidding Documents*--The Bidding Requirements and the proposed Contract Documents (including all Addenda).

8. *Bidding Requirements*--The Advertisement or Invitation to Bid, Instructions to Bidders, bid security of acceptable form, if any, and the Bid Form with any supplements.

9. *Change Order*--A document recommended by Engineer which is signed by Contractor and Owner and authorizes an addition, deletion, or revision in the Work or an adjustment in the Contract Price or the Contract Times, issued on or after the Effective Date of the Agreement.

10. *Claim*--A demand or assertion by Owner or Contractor seeking an adjustment of Contract Price or Contract Times, or both, or other relief with respect to the terms of the Contract. A demand for money or services by a third party is not a Claim.

11. *Contract*--The entire and integrated written agreement between the Owner and Contractor concerning the Work. The Contract supersedes prior negotiations, representations, or agreements, whether written or oral.

12. *Contract Documents*-- Those items so designated in the Agreement. Only printed or hard copies of the items listed in the Agreement are Contract Documents. Approved Shop Drawings, other Contractor's submittals, and the reports and drawings of subsurface and physical conditions are not Contract Documents.

13. *Contract Price*--The moneys payable by Owner to Contractor for completion of the Work in accordance with the Contract Documents as stated in the Agreement (subject to the provisions of Paragraph 11.03 in the case of Unit Price Work).

14. *Contract Times*--The number of days or the dates stated in the Agreement to: (i) achieve Milestones, if any, (ii) achieve Substantial Completion; and (iii) complete the Work so that it is ready for final payment as evidenced by Engineer's written recommendation of final payment.

15. *Contractor*--The individual or entity with whom Owner has entered into the Agreement.

16. *Cost of the Work*--See Paragraph 11.01.A for definition.

17. *Drawings*--That part of the Contract Documents prepared or approved by Engineer which graphically shows the scope, extent, and character of the Work to be performed by Contractor. Shop Drawings and other Contractor submittals are not Drawings as so defined.

18. *Effective Date of the Agreement*--The date indicated in the Agreement on which it becomes effective, but if no such date is indicated, it means the date on which the Agreement is signed and delivered by the last of the two parties to sign and deliver.

19. *Engineer*--The individual or entity named as such in the Agreement.

20. *Field Order*--A written order issued by Engineer which requires minor changes in the Work but which does not involve a change in the Contract Price or the Contract Times.

21. *General Requirements*--Sections of Division 1 of the Specifications. The General Requirements pertain to all sections of the Specifications.

22. *Hazardous Environmental Condition*--The presence at the Site of Asbestos, PCBs, Petroleum, Hazardous Waste, or Radioactive Material in such quantities or circumstances that may present a substantial danger to persons or property exposed thereto in connection with the Work.

23. *Hazardous Waste*--The term Hazardous Waste shall have the meaning provided in Section 1004 of the Solid Waste Disposal Act (42 USC Section 6903) as amended from time to time.

24. *Laws and Regulations; Laws or Regulations*--Any and all applicable laws, rules, regulations, ordinances, codes, and orders of any and all governmental bodies, agencies, authorities, and courts having jurisdiction.

25. *Liens*--Charges, security interests, or encumbrances upon Project funds, real property, or personal property.

26. *Milestone*--A principal event specified in the Contract Documents relating to an intermediate completion date or time prior to Substantial Completion of all the Work.

27. *Notice of Award*--The written notice by Owner to the Successful Bidder stating that upon timely compliance by the Successful Bidder with the conditions precedent listed therein, Owner will sign and deliver the Agreement.

28. *Notice to Proceed*--A written notice given by Owner to Contractor fixing the date on which the Contract Times will commence to run and on which Contractor shall start to perform the Work under the Contract Documents.

29. *Owner*--The individual or entity with whom Contractor has entered into the Agreement and for whom the Work is to be performed.

30. *PCBs*--Polychlorinated biphenyls.

31. *Petroleum*--Petroleum, including crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute), such as oil, petroleum, fuel oil, oil sludge, oil refuse, gasoline, kerosene, and oil mixed with other non-Hazardous Waste and crude oils.

32. *Progress Schedule*--A schedule, prepared and maintained by Contractor, describing the sequence and duration of the activities comprising the Contractor's plan to accomplish the Work within the Contract Times.

33. *Project*--The total construction of which the Work to be performed under the Contract Documents may be the whole, or a part.

34. *Project Manual*--The bound documentary information prepared for bidding and constructing the Work. A listing of the contents of the Project Manual, which may be bound in one or more volumes, is contained in the table(s) of contents.

35. *Radioactive Material*--Source, special nuclear, or byproduct material as defined by the Atomic Energy Act of 1954 (42 USC Section 2011 et seq.) as amended from time to time.

36. *Related Entity* -- An officer, director, partner, employee, agent, consultant, or subcontractor.

37. *Resident Project Representative*--The authorized representative of Engineer who may be assigned to the Site or any part thereof.

38. *Samples*--Physical examples of materials, equipment, or workmanship that are representative of some portion of the Work and which establish the standards by which such portion of the Work will be judged.

39. *Schedule of Submittals*--A schedule, prepared and maintained by Contractor, of required submittals and the time requirements to support scheduled performance of related construction activities.

40. *Schedule of Values*--A schedule, prepared and maintained by Contractor, allocating portions of the Contract Price to various portions of the Work and used as the basis for reviewing Contractor's Applications for Payment.

41. *Shop Drawings*--All drawings, diagrams, illustrations, schedules, and other data or information which are specifically prepared or assembled by or for Contractor and submitted by Contractor to illustrate some portion of the Work.

42. *Site*--Lands or areas indicated in the Contract Documents as being furnished by Owner upon which the Work is to be performed, including rights-of-way and easements for access thereto, and such other lands furnished by Owner which are designated for the use of Contractor.

43. *Specifications*--That part of the Contract Documents consisting of written requirements for materials, equipment, systems, standards and workmanship as applied to the Work, and certain

administrative requirements and procedural matters applicable thereto.

44. *Subcontractor*--An individual or entity having a direct contract with Contractor or with any other Subcontractor for the performance of a part of the Work at the Site.

45. *Substantial Completion*--The time at which the Work (or a specified part thereof) has progressed to the point where, in the opinion of Engineer, the Work (or a specified part thereof) is sufficiently complete, in accordance with the Contract Documents, so that the Work (or a specified part thereof) can be utilized for the purposes for which it is intended. The terms "substantially complete" and "substantially completed" as applied to all or part of the Work refer to Substantial Completion thereof.

46. *Successful Bidder*--The Bidder submitting a responsive Bid to whom Owner makes an award.

47. *Supplementary Conditions*--That part of the Contract Documents which amends or supplements these General Conditions.

48. *Supplier*--A manufacturer, fabricator, supplier, distributor, materialman, or vendor having a direct contract with Contractor or with any Subcontractor to furnish materials or equipment to be incorporated in the Work by Contractor or any Subcontractor.

49. *Underground Facilities*--All underground pipelines, conduits, ducts, cables, wires, manholes, vaults, tanks, tunnels, or other such facilities or attachments, and any encasements containing such facilities, including those that convey electricity, gases, steam, liquid petroleum products, telephone or other communications, cable television, water, wastewater, storm water, other liquids or chemicals, or traffic or other control systems.

50. *Unit Price Work*--Work to be paid for on the basis of unit prices.

51. *Work*--The entire construction or the various separately identifiable parts thereof required to be provided under the Contract Documents. Work includes and is the result of performing or providing all labor, services, and documentation necessary to produce such construction, and furnishing, installing, and incorporating all materials and equipment into such construction, all as required by the Contract Documents.

52. *Work Change Directive*--A written statement to Contractor issued on or after the Effective Date of the Agreement and signed by Owner and recommended by Engineer ordering an addition, deletion, or revision in the Work, or responding to differing or unforeseen subsurface or physical conditions under which the Work is to be performed or to emergencies. A Work Change Directive will not change the Contract Price or the Contract Times

but is evidence that the parties expect that the change ordered or documented by a Work Change Directive will be incorporated in a subsequently issued Change Order following negotiations by the parties as to its effect, if any, on the Contract Price or Contract Times.

1.02 Terminology

A. The following words or terms are not defined but, when used in the Bidding Requirements or Contract Documents, have the following meaning.

B. Intent of Certain Terms or Adjectives

1. The Contract Documents include the terms "as allowed," "as approved," "as ordered," "as directed" or terms of like effect or import to authorize an exercise of professional judgment by Engineer. In addition, the adjectives "reasonable," "suitable," "acceptable," "proper," "satisfactory," or adjectives of like effect or import are used to describe an action or determination of Engineer as to the Work. It is intended that such exercise of professional judgment, action or determination will be solely to evaluate, in general, the Work for compliance with the requirements of and information in the Contract Documents and conformance with the design concept of the completed Project as a functioning whole as shown or indicated in the Contract Documents (unless there is a specific statement indicating otherwise). The use of any such term or adjective is not intended to and shall not be effective to assign to Engineer any duty or authority to supervise or direct the performance of the Work or any duty or authority to undertake responsibility contrary to the provisions of Paragraph 9.09 or any other provision of the Contract Documents.

C. Day

1. The word "day" means a calendar day of 24 hours measured from midnight to the next midnight.

D. Defective

1. The word "defective," when modifying the word "Work," refers to Work that is unsatisfactory, faulty, or deficient in that it:

- a. does not conform to the Contract Documents, or
- b. does not meet the requirements of any applicable inspection, reference standard, test, or approval referred to in the Contract Documents, or
- c. has been damaged prior to Engineer's - recommendation of final payment (unless responsibility for the protection thereof has been assumed by Owner at Substantial Completion in accordance with Paragraph 14.04 or 14.05).

E. Furnish, Install, Perform, Provide

1. The word “furnish,” when used in connection with services, materials, or equipment, shall mean to supply and deliver said services, materials, or equipment to the Site (or some other specified location) ready for use or installation and in usable or operable condition.

2. The word “install,” when used in connection with services, materials, or equipment, shall mean to put into use or place in final position said services, materials, or equipment complete and ready for intended use.

3. The words “perform” or “provide,” when used in connection with services, materials, or equipment, shall mean to furnish and install said services, materials, or equipment complete and ready for intended use.

4. When “furnish,” “install,” “perform,” or “provide” is not used in connection with services, materials, or equipment in a context clearly requiring an obligation of Contractor, “provide” is implied.

F. Unless stated otherwise in the Contract Documents, words or phrases which have a well-known technical or construction industry or trade meaning are used in the Contract Documents in accordance with such recognized meaning.

ARTICLE 2 - PRELIMINARY MATTERS

2.01 *Delivery of Bonds and Evidence of Insurance*

A. When Contractor delivers the executed counterparts of the Agreement to Owner, Contractor shall also deliver to Owner such bonds as Contractor may be required to furnish.

B. *Evidence of Insurance:* Before any Work at the Site is started, Contractor and Owner shall each deliver to the other, with copies to each additional insured identified in the Supplementary Conditions, certificates of insurance (and other evidence of insurance which either of them or any additional insured may reasonably request) which Contractor and Owner respectively are required to purchase and maintain in accordance with Article 5.

2.02 *Copies of Documents*

A. Owner shall furnish to Contractor up to ten printed or hard copies of the Drawings and Project Manual. Additional copies will be furnished upon request at the cost of reproduction.

2.03 *Commencement of Contract Times; Notice to Proceed*

A. The Contract Times will commence to run on the thirtieth day after the Effective Date of the Agreement

or, if a Notice to Proceed is given, on the day indicated in the Notice to Proceed. A Notice to Proceed may be given at any time within 30 days after the Effective Date of the Agreement. In no event will the Contract Times commence to run later than the sixtieth day after the day of Bid opening or the thirtieth day after the Effective Date of the Agreement, whichever date is earlier.

2.04 *Starting the Work*

A. Contractor shall start to perform the Work on the date when the Contract Times commence to run. No Work shall be done at the Site prior to the date on which the Contract Times commence to run.

2.05 *Before Starting Construction*

A. *Preliminary Schedules:* Within 10 days after the Effective Date of the Agreement (unless otherwise specified in the General Requirements), Contractor shall submit to Engineer for timely review:

1. a preliminary Progress Schedule; indicating the times (numbers of days or dates) for starting and completing the various stages of the Work, including any Milestones specified in the Contract Documents;

2. a preliminary Schedule of Submittals; and

3. a preliminary Schedule of Values for all of the Work which includes quantities and prices of items which when added together equal the Contract Price and subdivides the Work into component parts in sufficient detail to serve as the basis for progress payments during performance of the Work. Such prices will include an appropriate amount of overhead and profit applicable to each item of Work.

2.06 *Preconstruction Conference*

A. Before any Work at the Site is started, a conference attended by Owner, Contractor, Engineer, and others as appropriate will be held to establish a working understanding among the parties as to the Work and to discuss the schedules referred to in Paragraph 2.05.A, procedures for handling Shop Drawings and other submittals, processing Applications for Payment, and maintaining required records.

2.07 *Initial Acceptance of Schedules*

A. At least 10 days before submission of the first Application for Payment a conference attended by Contractor, Engineer, and others as appropriate will be held to review for acceptability to Engineer as provided below the schedules submitted in accordance with Paragraph 2.05.A. Contractor shall have an additional 10 days to make corrections and adjustments and to complete and resubmit the schedules. No progress payment shall be made to Contractor until acceptable schedules are submitted to Engineer.

1. The Progress Schedule will be acceptable to Engineer if it provides an orderly progression of the Work to completion within the Contract Times. Such acceptance will not impose on Engineer responsibility for the Progress Schedule, for sequencing, scheduling, or progress of the Work nor interfere with or relieve Contractor from Contractor's full responsibility therefor.

2. Contractor's Schedule of Submittals will be acceptable to Engineer if it provides a workable arrangement for reviewing and processing the required submittals.

3. Contractor's Schedule of Values will be acceptable to Engineer as to form and substance if it provides a reasonable allocation of the Contract Price to component parts of the Work.

ARTICLE 3 - CONTRACT DOCUMENTS: INTENT, AMENDING, REUSE

3.01 *Intent*

A. The Contract Documents are complementary; what is required by one is as binding as if required by all.

B. It is the intent of the Contract Documents to describe a functionally complete Project (or part thereof) to be constructed in accordance with the Contract Documents. Any labor, documentation, services, materials, or equipment that may reasonably be inferred from the Contract Documents or from prevailing custom or trade usage as being required to produce the intended result will be provided whether or not specifically called for at no additional cost to Owner.

C. Clarifications and interpretations of the Contract Documents shall be issued by Engineer as provided in Article 9.

3.02 *Reference Standards*

A. Standards, Specifications, Codes, Laws, and Regulations

1. Reference to standards, specifications, manuals, or codes of any technical society, organization, or association, or to Laws or Regulations, whether such reference be specific or by implication, shall mean the standard, specification, manual, code, or Laws or Regulations in effect at the time of opening of Bids (or on the Effective Date of the Agreement if there were no Bids), except as may be otherwise specifically stated in the Contract Documents.

2. No provision of any such standard, specification, manual or code, or any instruction of a Supplier shall be effective to change the duties or

responsibilities of Owner, Contractor, or Engineer, or any of their subcontractors, consultants, agents, or employees from those set forth in the Contract Documents. No such provision or instruction shall be effective to assign to Owner, or Engineer, or any of, their Related Entities, any duty or authority to supervise or direct the performance of the Work or any duty or authority to undertake responsibility inconsistent with the provisions of the Contract Documents.

3.03 *Reporting and Resolving Discrepancies*

A. Reporting Discrepancies

1. *Contractor's Review of Contract Documents Before Starting Work:* Before undertaking each part of the Work, Contractor shall carefully study and compare the Contract Documents and check and verify pertinent figures therein and all applicable field measurements. Contractor shall promptly report in writing to Engineer any conflict, error, ambiguity, or discrepancy which Contractor may discover and shall obtain a written interpretation or clarification from Engineer before proceeding with any Work affected thereby.

2. *Contractor's Review of Contract Documents During Performance of Work:* If, during the performance of the Work, Contractor discovers any conflict, error, ambiguity, or discrepancy within the Contract Documents or between the Contract Documents and any provision of any Law or Regulation applicable to the performance of the Work or of any standard, specification, manual or code, or of any instruction of any Supplier, Contractor shall promptly report it to Engineer in writing. Contractor shall not proceed with the Work affected thereby (except in an emergency as required by Paragraph 6.16.A) until an amendment or supplement to the Contract Documents has been issued by one of the methods indicated in Paragraph 3.04.

3. Contractor shall not be liable to Owner or Engineer for failure to report any conflict, error, ambiguity, or discrepancy in the Contract Documents unless Contractor knew or reasonably should have known thereof.

B. Resolving Discrepancies

1. Except as may be otherwise specifically stated in the Contract Documents, the provisions of the Contract Documents shall take precedence in resolving any conflict, error, ambiguity, or discrepancy between the provisions of the Contract Documents and:

a. the provisions of any standard, specification, manual, code, or instruction (whether or not specifically incorporated by reference in the Contract Documents); or

b. the provisions of any Laws or Regulations applicable to the performance of the Work

(unless such an interpretation of the provisions of the Contract Documents would result in violation of such Law or Regulation).

3.04 *Amending and Supplementing Contract Documents*

A. The Contract Documents may be amended to provide for additions, deletions, and revisions in the Work or to modify the terms and conditions thereof by either a Change Order or a Work Change Directive.

B. The requirements of the Contract Documents may be supplemented, and minor variations and deviations in the Work may be authorized, by one or more of the following ways:

1. A Field Order;

2. Engineer's approval of a Shop Drawing or Sample; (Subject to the provisions of Paragraph 6.17.D.3); or

3. Engineer's written interpretation or clarification.

3.05 *Reuse of Documents*

A. Contractor and any Subcontractor or Supplier or other individual or entity performing or furnishing all of the Work under a direct or indirect contract with Contractor, shall not:

1. have or acquire any title to or ownership rights in any of the Drawings, Specifications, or other documents (or copies of any thereof) prepared by or bearing the seal of Engineer or Engineer's consultants, including electronic media editions; or

2. reuse any of such Drawings, Specifications, other documents, or copies thereof on extensions of the Project or any other project without written consent of Owner and Engineer and specific written verification or adaption by Engineer.

B. The prohibition of this Paragraph 3.05 will survive final payment, or termination of the Contract. Nothing herein shall preclude Contractor from retaining copies of the Contract Documents for record purposes.

3.06 *Electronic Data*

A. Copies of data furnished by Owner or Engineer to Contractor or Contractor to Owner or Engineer that may be relied upon are limited to the printed copies (also known as hard copies). Files in electronic media format of text, data, graphics, or other types are furnished only for the convenience of the receiving party. Any conclusion or information obtained or derived from such electronic files will be at the user's

sole risk. If there is a discrepancy between the electronic files and the hard copies, the hard copies govern.

B. Because data stored in electronic media format can deteriorate or be modified inadvertently or otherwise without authorization of the data's creator, the party receiving electronic files agrees that it will perform acceptance tests or procedures within 60 days, after which the receiving party shall be deemed to have accepted the data thus transferred. Any errors detected within the 60-day acceptance period will be corrected by the transferring party..

C. When transferring documents in electronic media format, the transferring party makes no representations as to long term compatibility, usability, or readability of documents resulting from the use of software application packages, operating systems, or computer hardware differing from those used by the data's creator.

ARTICLE 4 - AVAILABILITY OF LANDS; SUBSURFACE AND PHYSICAL CONDITIONS; HAZARDOUS ENVIRONMENTAL CONDITIONS; REFERENCE POINTS

4.01 *Availability of Lands*

A. Owner shall furnish the Site. Owner shall notify Contractor of any encumbrances or restrictions not of general application but specifically related to use of the Site with which Contractor must comply in performing the Work. Owner will obtain in a timely manner and pay for easements for permanent structures or permanent changes in existing facilities. If Contractor and Owner are unable to agree on entitlement to or on the amount or extent, if any, of any adjustment in the Contract Price or Contract Times, or both, as a result of any delay in Owner's furnishing the Site or a part thereof, Contractor may make a Claim therefor as provided in Paragraph 10.05.

B. Upon reasonable written request, Owner shall furnish Contractor with a current statement of record legal title and legal description of the lands upon which the Work is to be performed and Owner's interest therein as necessary for giving notice of or filing a mechanic's or construction lien against such lands in accordance with applicable Laws and Regulations.

C. Contractor shall provide for all additional lands and access thereto that may be required for temporary construction facilities or storage of materials and equipment.

4.02 *Subsurface and Physical Conditions*

A. *Reports and Drawings:* The Supplementary Conditions identify:

1. those reports of explorations and tests of subsurface conditions at or contiguous to the Site that Engineer has used in preparing the Contract Documents; and

2. those drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Site (except Underground Facilities) that Engineer has used in preparing the Contract Documents.

B. *Limited Reliance by Contractor on Technical Data Authorized:* Contractor may rely upon the general accuracy of the “technical data” contained in such reports and drawings, but such reports and drawings are not Contract Documents. Such “technical data” is identified in the Supplementary Conditions. Except for such reliance on such “technical data,” Contractor may not rely upon or make any claim against Owner or Engineer, or any of their Related Entities with respect to:

1. the completeness of such reports and drawings for Contractor’s purposes, including, but not limited to, any aspects of the means, methods, techniques, sequences, and procedures of construction to be employed by Contractor, and safety precautions and programs incident thereto; or

2. other data, interpretations, opinions, and information contained in such reports or shown or indicated in such drawings; or

3. any Contractor interpretation of or conclusion drawn from any “technical data” or any such other data, interpretations, opinions, or information.

4.03 *Differing Subsurface or Physical Conditions*

A. *Notice:* If Contractor believes that any subsurface or physical condition at or contiguous to the Site that is uncovered or revealed either:

1. is of such a nature as to establish that any “technical data” on which Contractor is entitled to rely as provided in Paragraph 4.02 is materially inaccurate; or

2. is of such a nature as to require a change in the Contract Documents; or

3. differs materially from that shown or indicated in the Contract Documents; or

4. is of an unusual nature, and differs materially from conditions ordinarily encountered and generally recognized as inherent in work of the character provided for in the Contract Documents;

then Contractor shall, promptly after becoming aware thereof and before further disturbing the subsurface or physical conditions or performing any Work in connection therewith (except in an emergency as required by Paragraph 6.16.A), notify Owner and Engineer in writing about such condition. Contractor shall not further disturb such condition or perform any Work in connection therewith (except as aforesaid) until receipt of written order to do so.

B. *Engineer’s Review:* After receipt of written notice as required by Paragraph 4.03.A, Engineer will promptly review the pertinent condition, determine the necessity of Owner’s obtaining additional exploration or tests with respect thereto, and advise Owner in writing (with a copy to Contractor) of Engineer’s findings and conclusions.

C. Possible Price and Times Adjustments

1. The Contract Price or the Contract Times, or both, will be equitably adjusted to the extent that the existence of such differing subsurface or physical condition causes an increase or decrease in Contractor’s cost of, or time required for, performance of the Work; subject, however, to the following:

a. such condition must meet any one or more of the categories described in Paragraph 4.03.A; and

b. with respect to Work that is paid for on a Unit Price Basis, any adjustment in Contract Price will be subject to the provisions of Paragraphs 9.07 and 11.03.

2. Contractor shall not be entitled to any adjustment in the Contract Price or Contract Times if:

a. Contractor knew of the existence of such conditions at the time Contractor made a final commitment to Owner with respect to Contract Price and Contract Times by the submission of a Bid or becoming bound under a negotiated contract; or

b. the existence of such condition could reasonably have been discovered or revealed as a result of any examination, investigation, exploration, test, or study of the Site and contiguous areas required by the Bidding Requirements or Contract Documents to be conducted by or for Contractor prior to Contractor’s making such final commitment; or

c. Contractor failed to give the written notice as required by Paragraph 4.03.A.

3. If Owner and Contractor are unable to agree on entitlement to or on the amount or extent, if any, of any adjustment in the Contract Price or Contract Times, or both, a Claim may be made therefor as provided in Paragraph 10.05. However, Owner and Engineer, and any of their Related Entities shall not be liable to Contractor for any claims, costs, losses, or damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) sustained by Contractor on or in connection with any other project or anticipated project.

4.04 *Underground Facilities*

A. *Shown or Indicated:* The information and data shown or indicated in the Contract Documents with respect to existing Underground Facilities at or contiguous to the Site is based on information and data furnished to Owner or Engineer by the owners of such Underground Facilities, including Owner, or by others. Unless it is otherwise expressly provided in the Supplementary Conditions:

1. Owner and Engineer shall not be responsible for the accuracy or completeness of any such information or data; and

2. the cost of all of the following will be included in the Contract Price, and Contractor shall have full responsibility for:

- a. reviewing and checking all such information and data,
- b. locating all Underground Facilities shown or indicated in the Contract Documents,
- c. coordination of the Work with the owners of such Underground Facilities, including Owner, during construction, and
- d. the safety and protection of all such Underground Facilities and repairing any damage thereto resulting from the Work.

B. *Not Shown or Indicated*

1. If an Underground Facility is uncovered or revealed at or contiguous to the Site which was not shown or indicated, or not shown or indicated with reasonable accuracy in the Contract Documents, Contractor shall, promptly after becoming aware thereof and before further disturbing conditions affected thereby or performing any Work in connection therewith (except in an emergency as required by Paragraph 6.16.A), identify the owner of such Underground Facility and give written notice to that owner and to Owner and Engineer. Engineer will

promptly review the Underground Facility and determine the extent, if any, to which a change is required in the Contract Documents to reflect and document the consequences of the existence or location of the Underground Facility. During such time, Contractor shall be responsible for the safety and protection of such Underground Facility.

2. If Engineer concludes that a change in the Contract Documents is required, a Work Change Directive or a Change Order will be issued to reflect and document such consequences. An equitable adjustment shall be made in the Contract Price or Contract Times, or both, to the extent that they are attributable to the existence or location of any Underground Facility that was not shown or indicated or not shown or indicated with reasonable accuracy in the Contract Documents and that Contractor did not know of and could not reasonably have been expected to be aware of or to have anticipated. If Owner and Contractor are unable to agree on entitlement to or on the amount or extent, if any, of any such adjustment in Contract Price or Contract Times, Owner or Contractor may make a Claim therefor as provided in Paragraph 10.05.

4.05 *Reference Points*

A. Owner shall provide engineering surveys to establish reference points for construction which in Engineer's judgment are necessary to enable Contractor to proceed with the Work. Contractor shall be responsible for laying out the Work, shall protect and preserve the established reference points and property monuments, and shall make no changes or relocations without the prior written approval of Owner. Contractor shall report to Engineer whenever any reference point or property monument is lost or destroyed or requires relocation because of necessary changes in grades or locations, and shall be responsible for the accurate replacement or relocation of such reference points or property monuments by professionally qualified personnel.

4.06 *Hazardous Environmental Condition at Site*

A. *Reports and Drawings:* Reference is made to the Supplementary Conditions for the identification of those reports and drawings relating to a Hazardous Environmental Condition identified at the Site, if any, that have been utilized by the Engineer in the preparation of the Contract Documents.

B. *Limited Reliance by Contractor on Technical Data Authorized:* Contractor may rely upon the general accuracy of the "technical data" contained in such reports and drawings, but such reports and drawings are not Contract Documents. Such "technical data" is identified in the Supplementary Conditions. Except for such reliance on such "technical data," Contractor may not rely upon or make any claim against Owner or Engineer, or any of their Related Entities with respect to:

1. the completeness of such reports and drawings for Contractor's purposes, including, but not limited to, any aspects of the means, methods, techniques, sequences and procedures of construction to be employed by Contractor and safety precautions and programs incident thereto; or

2. other data, interpretations, opinions and information contained in such reports or shown or indicated in such drawings; or

3. any Contractor interpretation of or conclusion drawn from any "technical data" or any such other data, interpretations, opinions or information.

C. Contractor shall not be responsible for any Hazardous Environmental Condition uncovered or revealed at the Site which was not shown or indicated in Drawings or Specifications or identified in the Contract Documents to be within the scope of the Work. Contractor shall be responsible for a Hazardous Environmental Condition created with any materials brought to the Site by Contractor, Subcontractors, Suppliers, or anyone else for whom Contractor is responsible.

D. If Contractor encounters a Hazardous Environmental Condition or if Contractor or anyone for whom Contractor is responsible creates a Hazardous Environmental Condition, Contractor shall immediately: (i) secure or otherwise isolate such condition; (ii) stop all Work in connection with such condition and in any area affected thereby (except in an emergency as required by Paragraph 6.16.A); and (iii) notify Owner and Engineer (and promptly thereafter confirm such notice in writing). Owner shall promptly consult with Engineer concerning the necessity for Owner to retain a qualified expert to evaluate such condition or take corrective action, if any.

E. Contractor shall not be required to resume Work in connection with such condition or in any affected area until after Owner has obtained any required permits related thereto and delivered to Contractor written notice: (i) specifying that such condition and any affected area is or has been rendered safe for the resumption of Work; or (ii) specifying any special conditions under which such Work may be resumed safely. If Owner and Contractor cannot agree as to entitlement to or on the amount or extent, if any, of any adjustment in Contract Price or Contract Times, or both, as a result of such Work stoppage or such special conditions under which Work is agreed to be resumed by Contractor, either party may make a Claim therefor as provided in Paragraph 10.05.

F. If after receipt of such written notice Contractor does not agree to resume such Work based on a reasonable belief it is unsafe, or does not agree to resume such Work under such special conditions, then Owner may order the portion of the Work that is in the area affected by such condition to be deleted from the Work. If Owner and Contractor cannot agree as to

entitlement to or on the amount or extent, if any, of an adjustment in Contract Price or Contract Times as a result of deleting such portion of the Work, then either party may make a Claim therefor as provided in Paragraph 10.05. Owner may have such deleted portion of the Work performed by Owner's own forces or others in accordance with Article 7.

G. To the fullest extent permitted by Laws and Regulations, Owner shall indemnify and hold harmless Contractor, Subcontractors, and Engineer, and the officers, directors, partners, employees, agents, consultants, and subcontractors of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to a Hazardous Environmental Condition, provided that such Hazardous Environmental Condition: (i) was not shown or indicated in the Drawings or Specifications or identified in the Contract Documents to be included within the scope of the Work, and (ii) was not created by Contractor or by anyone for whom Contractor is responsible. Nothing in this Paragraph 4.06. G shall obligate Owner to indemnify any individual or entity from and against the consequences of that individual's or entity's own negligence.

H. To the fullest extent permitted by Laws and Regulations, Contractor shall indemnify and hold harmless Owner and Engineer, and the officers, directors, partners, employees, agents, consultants, and subcontractors of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to a Hazardous Environmental Condition created by Contractor or by anyone for whom Contractor is responsible. Nothing in this Paragraph 4.06.H shall obligate Contractor to indemnify any individual or entity from and against the consequences of that individual's or entity's own negligence.

I. The provisions of Paragraphs 4.02, 4.03, and 4.04 do not apply to a Hazardous Environmental Condition uncovered or revealed at the Site.

ARTICLE 5 - BONDS AND INSURANCE

5.01 *Performance, Payment, and Other Bonds*

A. Contractor shall furnish performance and payment bonds, each in an amount at least equal to the Contract Price as security for the faithful performance and payment of all of Contractor's obligations under the Contract Documents. These bonds shall remain in effect until one year after the date when final payment becomes due or until completion of the correction period specified

in Paragraph 13.07, whichever is later, except as provided otherwise by Laws or Regulations or by the Contract Documents. Contractor shall also furnish such other bonds as are required by the Contract Documents.

B. All bonds shall be in the form prescribed by the Contract Documents except as provided otherwise by Laws or Regulations, and shall be executed by such sureties as are named in the current list of "Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies" as published in Circular 570 (amended) by the Financial Management Service, Surety Bond Branch, U.S. Department of the Treasury. All bonds signed by an agent must be accompanied by a certified copy of the agent's authority to act.

C. If the surety on any bond furnished by Contractor is declared bankrupt or becomes insolvent or its right to do business is terminated in any state where any part of the Project is located or it ceases to meet the requirements of Paragraph 5.01.B, Contractor shall promptly notify Owner and Engineer and shall, within 20 days after the event giving rise to such notification, provide another bond and surety, both of which shall comply with the requirements of Paragraphs 5.01.B and 5.02.

5.02 *Licensed Sureties and Insurers*

A. All bonds and insurance required by the Contract Documents to be purchased and maintained by Owner or Contractor shall be obtained from surety or insurance companies that are duly licensed or authorized in the jurisdiction in which the Project is located to issue bonds or insurance policies for the limits and coverages so required. Such surety and insurance companies shall also meet such additional requirements and qualifications as may be provided in the Supplementary Conditions.

5.03 *Certificates of Insurance*

A. Contractor shall deliver to Owner, with copies to each additional insured identified in the Supplementary Conditions, certificates of insurance (and other evidence of insurance requested by Owner or any other additional insured) which Contractor is required to purchase and maintain.

B. Owner shall deliver to Contractor, with copies to each additional insured identified in the Supplementary Conditions, certificates of insurance (and other evidence of insurance requested by Contractor or any other additional insured) which Owner is required to purchase and maintain.

5.04 *Contractor's Liability Insurance*

A. Contractor shall purchase and maintain such liability and other insurance as is appropriate for the Work being performed and as will provide protection

from claims set forth below which may arise out of or result from Contractor's performance of the Work and Contractor's other obligations under the Contract Documents, whether it is to be performed by Contractor, any Subcontractor or Supplier, or by anyone directly or indirectly employed by any of them to perform any of the Work, or by anyone for whose acts any of them may be liable:

1. claims under workers' compensation, disability benefits, and other similar employee benefit acts;

2. claims for damages because of bodily injury, occupational sickness or disease, or death of Contractor's employees;

3. claims for damages because of bodily injury, sickness or disease, or death of any person other than Contractor's employees;

4. claims for damages insured by reasonably available personal injury liability coverage which are sustained:

a. by any person as a result of an offense directly or indirectly related to the employment of such person by Contractor, or

b. by any other person for any other reason;

5. claims for damages, other than to the Work itself, because of injury to or destruction of tangible property wherever located, including loss of use resulting therefrom; and

6. claims for damages because of bodily injury or death of any person or property damage arising out of the ownership, maintenance or use of any motor vehicle.

B. The policies of insurance required by this Paragraph 5.04 shall:

1. with respect to insurance required by Paragraphs 5.04.A.3 through 5.04.A.6 inclusive, include as additional insured (subject to any customary exclusion regarding professional liability) Owner and Engineer, and any other individuals or entities identified in the Supplementary Conditions, all of whom shall be listed as additional insureds, and include coverage for the respective officers, directors, partners, employees, agents, consultants and subcontractors of each and any of all such additional insureds, and the insurance afforded to these additional insureds shall provide primary coverage for all claims covered thereby;

2. include at least the specific coverages and be written for not less than the limits of liability provided in the Supplementary Conditions or required by Laws or Regulations, whichever is greater;

3. include completed operations insurance;

4. include contractual liability insurance covering Contractor's indemnity obligations under Paragraphs 6.11 and 6.20;

5. contain a provision or endorsement that the coverage afforded will not be canceled, materially changed or renewal refused until at least 30 days prior written notice has been given to Owner and Contractor and to each other additional insured identified in the Supplementary Conditions to whom a certificate of insurance has been issued (and the certificates of insurance furnished by the Contractor pursuant to Paragraph 5.03 will so provide);

6. remain in effect at least until final payment and at all times thereafter when Contractor may be correcting, removing, or replacing defective Work in accordance with Paragraph 13.07; and

7. with respect to completed operations insurance, and any insurance coverage written on a claims-made basis, remain in effect for at least two years after final payment.

a. Contractor shall furnish Owner and each other additional insured identified in the Supplementary Conditions, to whom a certificate of insurance has been issued, evidence satisfactory to Owner and any such additional insured of continuation of such insurance at final payment and one year thereafter.

5.05 *Owner's Liability Insurance*

A. In addition to the insurance required to be provided by Contractor under Paragraph 5.04, Owner, at Owner's option, may purchase and maintain at Owner's expense Owner's own liability insurance as will protect Owner against claims which may arise from operations under the Contract Documents.

5.06 *Property Insurance*

A. Unless otherwise provided in the Supplementary Conditions, Owner shall purchase and maintain property insurance upon the Work at the Site in the amount of the full replacement cost thereof (subject to such deductible amounts as may be provided in the Supplementary Conditions or required by Laws and Regulations). This insurance shall:

1. include the interests of Owner, Contractor, Subcontractors, and Engineer, and any other individuals or entities identified in the Supplementary Conditions, and the officers, directors, partners, employees, agents, consultants and subcontractors of each and any of them, each of whom is deemed to have an insurable interest and shall be listed as an insured or additional insured;

2. be written on a Builder's Risk "all-risk" or open peril or special causes of loss policy form that shall at least include insurance for physical loss or damage to the Work, temporary buildings, false work, and materials and equipment in transit, and shall insure against at least the following perils or causes of loss: fire, lightning, extended coverage, theft, vandalism and malicious mischief, earthquake, collapse, debris removal, demolition occasioned by enforcement of Laws and Regulations, water damage, (other than caused by flood) and such other perils or causes of loss as may be specifically required by the Supplementary Conditions;

3. include expenses incurred in the repair or replacement of any insured property (including but not limited to fees and charges of engineers and architects);

4. cover materials and equipment stored at the Site or at another location that was agreed to in writing by Owner prior to being incorporated in the Work, provided that such materials and equipment have been included in an Application for Payment recommended by Engineer;

5. allow for partial utilization of the Work by Owner;

6. include testing and startup; and

7. be maintained in effect until final payment is made unless otherwise agreed to in writing by Owner, Contractor, and Engineer with 30 days written notice to each other additional insured to whom a certificate of insurance has been issued.

B. Owner shall purchase and maintain such boiler and machinery insurance or additional property insurance as may be required by the Supplementary Conditions or Laws and Regulations which will include the interests of Owner, Contractor, Subcontractors, and Engineer, and any other individuals or entities identified in the Supplementary Conditions, and the officers, directors, partners, employees, agents, consultants and subcontractors of each and any of them, each of whom is deemed to have an insurable interest and shall be listed as an insured or additional insured.

C. All the policies of insurance (and the certificates or other evidence thereof) required to be purchased and maintained in accordance with Paragraph 5.06 will contain a provision or endorsement that the coverage afforded will not be canceled or materially changed or renewal refused until at least 30 days prior written notice has been given to Owner and Contractor and to each other additional insured to whom a certificate of insurance has been issued and will contain waiver provisions in accordance with Paragraph 5.07.

D. Owner shall not be responsible for purchasing and maintaining any property insurance specified in this Paragraph 5.06 to protect the interests of Contractor, Subcontractors, or others in the Work to the extent of any

deductible amounts that are identified in the Supplementary Conditions. The risk of loss within such identified deductible amount will be borne by Contractor, Subcontractors, or others suffering any such loss, and if any of them wishes property insurance coverage within the limits of such amounts, each may purchase and maintain it at the purchaser's own expense.

E. If Contractor requests in writing that other special insurance be included in the property insurance policies provided under Paragraph 5.06, Owner shall, if possible, include such insurance, and the cost thereof will be charged to Contractor by appropriate Change Order. Prior to commencement of the Work at the Site, Owner shall in writing advise Contractor whether or not such other insurance has been procured by Owner.

5.07 *Waiver of Rights*

A. Owner and Contractor intend that all policies purchased in accordance with Paragraph 5.06 will protect Owner, Contractor, Subcontractors, and Engineer, and all other individuals or entities identified in the Supplementary Conditions to be listed as insureds or additional insureds (and the officers, directors, partners, employees, agents, consultants and subcontractors of each and any of them) in such policies and will provide primary coverage for all losses and damages caused by the perils or causes of loss covered thereby. All such policies shall contain provisions to the effect that in the event of payment of any loss or damage the insurers will have no rights of recovery against any of the insureds or additional insureds thereunder. Owner and Contractor waive all rights against each other and their respective officers, directors, partners, employees, agents, consultants and subcontractors of each and any of them for all losses and damages caused by, arising out of or resulting from any of the perils or causes of loss covered by such policies and any other property insurance applicable to the Work; and, in addition, waive all such rights against Subcontractors, and Engineer, and all other individuals or entities identified in the Supplementary Conditions to be listed as insured or additional insured (and the officers, directors, partners, employees, agents, consultants and subcontractors of each and any of them) under such policies for losses and damages so caused. None of the above waivers shall extend to the rights that any party making such waiver may have to the proceeds of insurance held by Owner as trustee or otherwise payable under any policy so issued.

B. Owner waives all rights against Contractor, Subcontractors, and Engineer, and the officers, directors, partners, employees, agents, consultants and subcontractors of each and any of them for:

1. loss due to business interruption, loss of use, or other consequential loss extending beyond direct physical loss or damage to Owner's property or the Work caused by, arising out of, or resulting from fire or other perils whether or not insured by Owner; and

2. loss or damage to the completed Project or part thereof caused by, arising out of, or resulting from fire or other insured peril or cause of loss covered by any property insurance maintained on the completed Project or part thereof by Owner during partial utilization pursuant to Paragraph 14.05, after Substantial Completion pursuant to Paragraph 14.04, or after final payment pursuant to Paragraph 14.07.

C. Any insurance policy maintained by Owner covering any loss, damage or consequential loss referred to in Paragraph 5.07.B shall contain provisions to the effect that in the event of payment of any such loss, damage, or consequential loss, the insurers will have no rights of recovery against Contractor, Subcontractors, or Engineer, and the officers, directors, partners, employees, agents, consultants and subcontractors of each and any of them.

5.08 *Receipt and Application of Insurance Proceeds*

A. Any insured loss under the policies of insurance required by Paragraph 5.06 will be adjusted with Owner and made payable to Owner as fiduciary for the insureds, as their interests may appear, subject to the requirements of any applicable mortgage clause and of Paragraph 5.08.B. Owner shall deposit in a separate account any money so received and shall distribute it in accordance with such agreement as the parties in interest may reach. If no other special agreement is reached, the damaged Work shall be repaired or replaced, the moneys so received applied on account thereof, and the Work and the cost thereof covered by an appropriate Change Order.

B. Owner as fiduciary shall have power to adjust and settle any loss with the insurers unless one of the parties in interest shall object in writing within 15 days after the occurrence of loss to Owner's exercise of this power. If such objection be made, Owner as fiduciary shall make settlement with the insurers in accordance with such agreement as the parties in interest may reach. If no such agreement among the parties in interest is reached, Owner as fiduciary shall adjust and settle the loss with the insurers and, if required in writing by any party in interest, Owner as fiduciary shall give bond for the proper performance of such duties.

5.09 *Acceptance of Bonds and Insurance; Option to Replace*

A. If either Owner or Contractor has any objection to the coverage afforded by or other provisions of the bonds or insurance required to be purchased and maintained by the other party in accordance with Article 5 on the basis of non-conformance with the Contract

Documents, the objecting party shall so notify the other party in writing within 10 days after receipt of the certificates (or other evidence requested) required by Paragraph 2.01.B. Owner and Contractor shall each provide to the other such additional information in respect of insurance provided as the other may reasonably request. If either party does not purchase or maintain all of the bonds and insurance required of such party by the Contract Documents, such party shall notify the other party in writing of such failure to purchase prior to the start of the Work, or of such failure to maintain prior to any change in the required coverage. Without prejudice to any other right or remedy, the other party may elect to obtain equivalent bonds or insurance to protect such other party's interests at the expense of the party who was required to provide such coverage, and a Change Order shall be issued to adjust the Contract Price accordingly.

5.10 *Partial Utilization, Acknowledgment of Property Insurer*

A. If Owner finds it necessary to occupy or use a portion or portions of the Work prior to Substantial Completion of all the Work as provided in Paragraph 14.05, no such use or occupancy shall commence before the insurers providing the property insurance pursuant to Paragraph 5.06 have acknowledged notice thereof and in writing effected any changes in coverage necessitated thereby. The insurers providing the property insurance shall consent by endorsement on the policy or policies, but the property insurance shall not be canceled or permitted to lapse on account of any such partial use or occupancy.

ARTICLE 6 - CONTRACTOR'S RESPONSIBILITIES

6.01 *Supervision and Superintendence*

A. Contractor shall supervise, inspect, and direct the Work competently and efficiently, devoting such attention thereto and applying such skills and expertise as may be necessary to perform the Work in accordance with the Contract Documents. Contractor shall be solely responsible for the means, methods, techniques, sequences, and procedures of construction. Contractor shall not be responsible for the negligence of Owner or Engineer in the design or specification of a specific means, method, technique, sequence, or procedure of construction which is shown or indicated in and expressly required by the Contract Documents.

B. At all times during the progress of the Work, Contractor shall assign a competent resident superintendent who shall not be replaced without written notice to Owner and Engineer except under extraordinary circumstances. The superintendent will be Contractor's representative at the Site and shall have authority to act on behalf of Contractor. All communications given to or

received from the superintendent shall be binding on Contractor.

6.02 *Labor; Working Hours*

A. Contractor shall provide competent, suitably qualified personnel to survey and lay out the Work and perform construction as required by the Contract Documents. Contractor shall at all times maintain good discipline and order at the Site.

B. Except as otherwise required for the safety or protection of persons or the Work or property at the Site or adjacent thereto, and except as otherwise stated in the Contract Documents, all Work at the Site shall be performed during regular working hours. Contractor will not permit the performance of Work on a Saturday, Sunday, or any legal holiday without Owner's written consent (which will not be unreasonably withheld) given after prior written notice to Engineer.

6.03 *Services, Materials, and Equipment*

A. Unless otherwise specified in the Contract Documents, Contractor shall provide and assume full responsibility for all services, materials, equipment, labor, transportation, construction equipment and machinery, tools, appliances, fuel, power, light, heat, telephone, water, sanitary facilities, temporary facilities, and all other facilities and incidentals necessary for the performance, testing, start-up, and completion of the Work.

B. All materials and equipment incorporated into the Work shall be as specified or, if not specified, shall be of good quality and new, except as otherwise provided in the Contract Documents. All special warranties and guarantees required by the Specifications shall expressly run to the benefit of Owner. If required by Engineer, Contractor shall furnish satisfactory evidence (including reports of required tests) as to the source, kind, and quality of materials and equipment.

C. All materials and equipment shall be stored, applied, installed, connected, erected, protected, used, cleaned, and conditioned in accordance with instructions of the applicable Supplier, except as otherwise may be provided in the Contract Documents.

6.04 *Progress Schedule*

A. Contractor shall adhere to the Progress Schedule established in accordance with Paragraph 2.07 as it may be adjusted from time to time as provided below.

1. Contractor shall submit to Engineer for acceptance (to the extent indicated in Paragraph 2.07) proposed adjustments in the Progress Schedule that will not result in changing the Contract Times. Such adjustments will comply with any provisions of the General Requirements applicable thereto.

2. Proposed adjustments in the Progress Schedule that will change the Contract Times shall be submitted in accordance with the requirements of Article 12. Adjustments in Contract Times may only be made by a Change Order.

6.05 *Substitutes and "Or-Equals"*

A. Whenever an item of material or equipment is specified or described in the Contract Documents by using the name of a proprietary item or the name of a particular Supplier, the specification or description is intended to establish the type, function, appearance, and quality required. Unless the specification or description contains or is followed by words reading that no like, equivalent, or "or-equal" item or no substitution is permitted, other items of material or equipment or material or equipment of other Suppliers may be submitted to Engineer for review under the circumstances described below.

1. *"Or-Equal" Items:* If in Engineer's sole discretion an item of material or equipment proposed by Contractor is functionally equal to that named and sufficiently similar so that no change in related Work will be required, it may be considered by Engineer as an "or-equal" item, in which case review and approval of the proposed item may, in Engineer's sole discretion, be accomplished without compliance with some or all of the requirements for approval of proposed substitute items. For the purposes of this Paragraph 6.05.A.1, a proposed item of material or equipment will be considered functionally equal to an item so named if:

a. in the exercise of reasonable judgment Engineer determines that:

1) it is at least equal in materials of construction, quality, durability, appearance, strength, and design characteristics;

2) it will reliably perform at least equally well the function and achieve the results imposed by the design concept of the completed Project as a functioning whole,

3) it has a proven record of performance and availability of responsive service; and

b. Contractor certifies that, if approved and incorporated into the Work:

1) there will be no increase in cost to the Owner or increase in Contract Times, and

2) it will conform substantially to the detailed requirements of the item named in the Contract Documents.

2. Substitute Items

a. If in Engineer's sole discretion an item of material or equipment proposed by Contractor does not qualify as an "or-equal" item under Paragraph 6.05.A.1, it will be considered a proposed substitute item.

b. Contractor shall submit sufficient information as provided below to allow Engineer to determine that the item of material or equipment proposed is essentially equivalent to that named and an acceptable substitute therefor. Requests for review of proposed substitute items of material or equipment will not be accepted by Engineer from anyone other than Contractor.

c. The requirements for review by Engineer will be as set forth in Paragraph 6.05.A.2.d, as supplemented in the General Requirements and as Engineer may decide is appropriate under the circumstances.

d. Contractor shall make written application to Engineer for review of a proposed substitute item of material or equipment that Contractor seeks to furnish or use. The application:

1) shall certify that the proposed substitute item will:

a) perform adequately the functions and achieve the results called for by the general design,

b) be similar in substance to that specified, and

c) be suited to the same use as that specified;

2) will state:

a) the extent, if any, to which the use of the proposed substitute item will prejudice Contractor's achievement of Substantial Completion on time;

b) whether or not use of the proposed substitute item in the Work will require a change in any of the Contract Documents (or in the provisions of any other direct contract with Owner for other work on the Project) to adapt the design to the proposed substitute item; and

c) whether or not incorporation or use of the proposed substitute item in connection with the Work is subject to payment of any license fee or royalty;

3) will identify:

a) all variations of the proposed substitute item from that specified, and

b) available engineering, sales, maintenance, repair, and replacement services;

4) and shall contain an itemized estimate of all costs or credits that will result directly or indirectly from use of such substitute item, including costs of redesign and claims of other contractors affected by any resulting change,

B. Substitute Construction Methods or Procedures: If a specific means, method, technique, sequence, or procedure of construction is expressly required by the Contract Documents, Contractor may furnish or utilize a substitute means, method, technique, sequence, or procedure of construction approved by Engineer. Contractor shall submit sufficient information to allow Engineer, in Engineer's sole discretion, to determine that the substitute proposed is equivalent to that expressly called for by the Contract Documents. The requirements for review by Engineer will be similar to those provided in Paragraph 6.05.A.2.

C. Engineer's Evaluation: Engineer will be allowed a reasonable time within which to evaluate each proposal or submittal made pursuant to Paragraphs 6.05.A and 6.05.B. Engineer may require Contractor to furnish additional data about the proposed substitute item. Engineer will be the sole judge of acceptability. No "or equal" or substitute will be ordered, installed or utilized until Engineer's review is complete, which will be evidenced by either a Change Order for a substitute or an approved Shop Drawing for an "or equal." Engineer will advise Contractor in writing of any negative determination.

D. Special Guarantee: Owner may require Contractor to furnish at Contractor's expense a special performance guarantee or other surety with respect to any substitute.

E. Engineer's Cost Reimbursement: Engineer will record Engineer's costs in evaluating a substitute proposed or submitted by Contractor pursuant to Paragraphs 6.05.A.2 and 6.05.B. Whether or not Engineer approves a substitute item so proposed or submitted by Contractor, Contractor shall reimburse Owner for the charges of Engineer for evaluating each such proposed substitute. Contractor shall also reimburse Owner for the charges of Engineer for making changes in the Contract

Documents (or in the provisions of any other direct contract with Owner) resulting from the acceptance of each proposed substitute.

F. Contractor's Expense: Contractor shall provide all data in support of any proposed substitute or "or-equal" at Contractor's expense.

6.06 Concerning Subcontractors, Suppliers, and Others

A. Contractor shall not employ any Subcontractor, Supplier, or other individual or entity (including those acceptable to Owner as indicated in Paragraph 6.06.B), whether initially or as a replacement, against whom Owner may have reasonable objection. Contractor shall not be required to employ any Subcontractor, Supplier, or other individual or entity to furnish or perform any of the Work against whom Contractor has reasonable objection.

B. If the Supplementary Conditions require the identity of certain Subcontractors, Suppliers, or other individuals or entities to be submitted to Owner in advance for acceptance by Owner by a specified date prior to the Effective Date of the Agreement, and if Contractor has submitted a list thereof in accordance with the Supplementary Conditions, Owner's acceptance (either in writing or by failing to make written objection thereto by the date indicated for acceptance or objection in the Bidding Documents or the Contract Documents) of any such Subcontractor, Supplier, or other individual or entity so identified may be revoked on the basis of reasonable objection after due investigation. Contractor shall submit an acceptable replacement for the rejected Subcontractor, Supplier, or other individual or entity, and the Contract Price will be adjusted by the difference in the cost occasioned by such replacement, and an appropriate Change Order will be issued. No acceptance by Owner of any such Subcontractor, Supplier, or other individual or entity, whether initially or as a replacement, shall constitute a waiver of any right of Owner or Engineer to reject defective Work.

C. Contractor shall be fully responsible to Owner and Engineer for all acts and omissions of the Subcontractors, Suppliers, and other individuals or entities performing or furnishing any of the Work just as Contractor is responsible for Contractor's own acts and omissions. Nothing in the Contract Documents:

1. shall create for the benefit of any such Subcontractor, Supplier, or other individual or entity any contractual relationship between Owner or Engineer and any such Subcontractor, Supplier or other individual or entity, nor

2. shall anything in the Contract Documents create any obligation on the part of Owner or Engineer to pay or to see to the payment of any moneys due any such Subcontractor, Supplier, or other individual

or entity except as may otherwise be required by Laws and Regulations.

D. Contractor shall be solely responsible for scheduling and coordinating the Work of Subcontractors, Suppliers, and other individuals or entities performing or furnishing any of the Work under a direct or indirect contract with Contractor.

E. Contractor shall require all Subcontractors, Suppliers, and such other individuals or entities performing or furnishing any of the Work to communicate with Engineer through Contractor.

F. The divisions and sections of the Specifications and the identifications of any Drawings shall not control Contractor in dividing the Work among Subcontractors or Suppliers or delineating the Work to be performed by any specific trade.

G. All Work performed for Contractor by a Subcontractor or Supplier will be pursuant to an appropriate agreement between Contractor and the Subcontractor or Supplier which specifically binds the Subcontractor or Supplier to the applicable terms and conditions of the Contract Documents for the benefit of Owner and Engineer. Whenever any such agreement is with a Subcontractor or Supplier who is listed as an additional insured on the property insurance provided in Paragraph 5.06, the agreement between the Contractor and the Subcontractor or Supplier will contain provisions whereby the Subcontractor or Supplier waives all rights against Owner, Contractor, and Engineer, and all other individuals or entities identified in the Supplementary Conditions to be listed as insureds or additional insureds (and the officers, directors, partners, employees, agents, consultants and subcontractors of each and any of them) for all losses and damages caused by, arising out of, relating to, or resulting from any of the perils or causes of loss covered by such policies and any other property insurance applicable to the Work. If the insurers on any such policies require separate waiver forms to be signed by any Subcontractor or Supplier, Contractor will obtain the same.

6.07 *Patent Fees and Royalties*

A. Contractor shall pay all license fees and royalties and assume all costs incident to the use in the performance of the Work or the incorporation in the Work of any invention, design, process, product, or device which is the subject of patent rights or copyrights held by others. If a particular invention, design, process, product, or device is specified in the Contract Documents for use in the performance of the Work and if to the actual knowledge of Owner or Engineer its use is subject to patent rights or copyrights calling for the payment of any license fee or royalty to others, the existence of such rights shall be disclosed by Owner in the Contract Documents.

B. To the fullest extent permitted by Laws and Regulations, Contractor shall indemnify and hold harmless Owner and Engineer, and the officers, directors, partners, employees, agents, consultants and subcontractors of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to any infringement of patent rights or copyrights incident to the use in the performance of the Work or resulting from the incorporation in the Work of any invention, design, process, product, or device not specified in the Contract Documents.

6.08 *Permits*

A. Unless otherwise provided in the Supplementary Conditions, Contractor shall obtain and pay for all construction permits and licenses. Owner shall assist Contractor, when necessary, in obtaining such permits and licenses. Contractor shall pay all governmental charges and inspection fees necessary for the prosecution of the Work which are applicable at the time of opening of Bids, or, if there are no Bids, on the Effective Date of the Agreement. Owner shall pay all charges of utility owners for connections for providing permanent service to the Work.

6.09 *Laws and Regulations*

A. Contractor shall give all notices required by and shall comply with all Laws and Regulations applicable to the performance of the Work. Except where otherwise expressly required by applicable Laws and Regulations, neither Owner nor Engineer shall be responsible for monitoring Contractor's compliance with any Laws or Regulations.

B. If Contractor performs any Work knowing or having reason to know that it is contrary to Laws or Regulations, Contractor shall bear all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such Work. However, it shall not be Contractor's primary responsibility to make certain that the Specifications and Drawings are in accordance with Laws and Regulations, but this shall not relieve Contractor of Contractor's obligations under Paragraph 3.03.

C. Changes in Laws or Regulations not known at the time of opening of Bids (or, on the Effective Date of the Agreement if there were no Bids) having an effect on the cost or time of performance of the Work shall be the subject of an adjustment in Contract Price or Contract Times. If Owner and Contractor are unable to agree on entitlement to or on the amount or extent, if any, of any such adjustment, a Claim may be made therefor as provided in Paragraph 10.05.

6.10 Taxes

A. Contractor shall pay all sales, consumer, use, and other similar taxes required to be paid by Contractor in accordance with the Laws and Regulations of the place of the Project which are applicable during the performance of the Work.

6.11 Use of Site and Other Areas

A. Limitation on Use of Site and Other Areas

1. Contractor shall confine construction equipment, the storage of materials and equipment, and the operations of workers to the Site and other areas permitted by Laws and Regulations, and shall not unreasonably encumber the Site and other areas with construction equipment or other materials or equipment. Contractor shall assume full responsibility for any damage to any such land or area, or to the owner or occupant thereof, or of any adjacent land or areas resulting from the performance of the Work.

2. Should any claim be made by any such owner or occupant because of the performance of the Work, Contractor shall promptly settle with such other party by negotiation or otherwise resolve the claim by arbitration or other dispute resolution proceeding or at law.

3. To the fullest extent permitted by Laws and Regulations, Contractor shall indemnify and hold harmless Owner and Engineer, and the officers, directors, partners, employees, agents, consultants and subcontractors of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to any claim or action, legal or equitable, brought by any such owner or occupant against Owner, Engineer, or any other party indemnified hereunder to the extent caused by or based upon Contractor's performance of the Work.

B. Removal of Debris During Performance of the Work: During the progress of the Work Contractor shall keep the Site and other areas free from accumulations of waste materials, rubbish, and other debris. Removal and disposal of such waste materials, rubbish, and other debris shall conform to applicable Laws and Regulations.

C. Cleaning: Prior to Substantial Completion of the Work Contractor shall clean the Site and the Work and make it ready for utilization by Owner. At the completion of the Work Contractor shall remove from the Site all tools, appliances, construction equipment and machinery, and surplus materials and shall restore to original condition all property not designated for alteration by the Contract Documents.

D. Loading Structures: Contractor shall not load nor permit any part of any structure to be loaded in any manner that will endanger the structure, nor shall Contractor subject any part of the Work or adjacent property to stresses or pressures that will endanger it.

6.12 Record Documents

A. Contractor shall maintain in a safe place at the Site one record copy of all Drawings, Specifications, Addenda, Change Orders, Work Change Directives, Field Orders, and written interpretations and clarifications in good order and annotated to show changes made during construction. These record documents together with all approved Samples and a counterpart of all approved Shop Drawings will be available to Engineer for reference. Upon completion of the Work, these record documents, Samples, and Shop Drawings will be delivered to Engineer for Owner.

6.13 Safety and Protection

A. Contractor shall be solely responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the Work. Contractor shall take all necessary precautions for the safety of, and shall provide the necessary protection to prevent damage, injury or loss to:

1. all persons on the Site or who may be affected by the Work;

2. all the Work and materials and equipment to be incorporated therein, whether in storage on or off the Site; and

3. other property at the Site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures, utilities, and Underground Facilities not designated for removal, relocation, or replacement in the course of construction.

B. Contractor shall comply with all applicable Laws and Regulations relating to the safety of persons or property, or to the protection of persons or property from damage, injury, or loss; and shall erect and maintain all necessary safeguards for such safety and protection. Contractor shall notify owners of adjacent property and of Underground Facilities and other utility owners when prosecution of the Work may affect them, and shall cooperate with them in the protection, removal, relocation, and replacement of their property.

C. All damage, injury, or loss to any property referred to in Paragraph 6.13.A.2 or 6.13.A.3 caused, directly or indirectly, in whole or in part, by Contractor, any Subcontractor, Supplier, or any other individual or entity directly or indirectly employed by any of them to perform any of the Work, or anyone for whose acts any of them may be liable, shall be remedied by Contractor (except damage or loss attributable to the fault of Draw-

ings or Specifications or to the acts or omissions of Owner or Engineer or , or anyone employed by any of them, or anyone for whose acts any of them may be liable, and not attributable, directly or indirectly, in whole or in part, to the fault or negligence of Contractor or any Subcontractor, Supplier, or other individual or entity directly or indirectly employed by any of them).

D. Contractor's duties and responsibilities for safety and for protection of the Work shall continue until such time as all the Work is completed and Engineer has issued a notice to Owner and Contractor in accordance with Paragraph 14.07.B that the Work is acceptable (except as otherwise expressly provided in connection with Substantial Completion).

6.14 *Safety Representative*

A. Contractor shall designate a qualified and experienced safety representative at the Site whose duties and responsibilities shall be the prevention of accidents and the maintaining and supervising of safety precautions and programs.

6.15 *Hazard Communication Programs*

A. Contractor shall be responsible for coordinating any exchange of material safety data sheets or other hazard communication information required to be made available to or exchanged between or among employers at the Site in accordance with Laws or Regulations.

6.16 *Emergencies*

A. In emergencies affecting the safety or protection of persons or the Work or property at the Site or adjacent thereto, Contractor is obligated to act to prevent threatened damage, injury, or loss. Contractor shall give Engineer prompt written notice if Contractor believes that any significant changes in the Work or variations from the Contract Documents have been caused thereby or are required as a result thereof. If Engineer determines that a change in the Contract Documents is required because of the action taken by Contractor in response to such an emergency, a Work Change Directive or Change Order will be issued.

6.17 *Shop Drawings and Samples*

A. Contractor shall submit Shop Drawings and Samples to Engineer for review and approval in accordance with the acceptable Schedule of Submittals (as required by Paragraph 2.07). Each submittal will be identified as Engineer may require.

1. Shop Drawings

a. Submit number of copies specified in the General Requirements.

b. Data shown on the Shop Drawings will be complete with respect to quantities, dimensions, specified performance and design criteria, materials, and similar data to show Engineer the services, materials, and equipment Contractor proposes to provide and to enable Engineer to review the information for the limited purposes required by Paragraph 6.17.D.

2. *Samples*: Contractor shall also submit Samples to Engineer for review and approval in accordance with the acceptable schedule of Shop Drawings and Sample submittals.

a. Submit number of Samples specified in the Specifications.

b. Clearly identify each Sample as to material, Supplier, pertinent data such as catalog numbers, the use for which intended and other data as Engineer may require to enable Engineer to review the submittal for the limited purposes required by Paragraph 6.17.D.

B. Where a Shop Drawing or Sample is required by the Contract Documents or the Schedule of Submittals , any related Work performed prior to Engineer's review and approval of the pertinent submittal will be at the sole expense and responsibility of Contractor.

C. Submittal Procedures

1. Before submitting each Shop Drawing or Sample, Contractor shall have determined and verified:

a. all field measurements, quantities, dimensions, specified performance and design criteria, installation requirements, materials, catalog numbers, and similar information with respect thereto;

b. the suitability of all materials with respect to intended use, fabrication, shipping, handling, storage, assembly, and installation pertaining to the performance of the Work;

c. all information relative to Contractor's responsibilities for means, methods, techniques, sequences, and procedures of construction, and safety precautions and programs incident thereto; and

d. shall also have reviewed and coordinated each Shop Drawing or Sample with other Shop Drawings and Samples and with the requirements of the Work and the Contract Documents.

2. Each submittal shall bear a stamp or specific written certification that Contractor has satisfied Contractor's obligations under the Contract Documents

with respect to Contractor's review and approval of that submittal.

3. With each submittal, Contractor shall give Engineer specific written notice of any variations, that the Shop Drawing or Sample may have from the requirements of the Contract Documents. This notice shall be both a written communication separate from the Shop Drawing's or Sample Submittal; and, in addition, by a specific notation made on each Shop Drawing or Sample submitted to Engineer for review and approval of each such variation.

D. Engineer's Review

1. Engineer will provide timely review of Shop Drawings and Samples in accordance with the Schedule of Submittals acceptable to Engineer. Engineer's review and approval will be only to determine if the items covered by the submittals will, after installation or incorporation in the Work, conform to the information given in the Contract Documents and be compatible with the design concept of the completed Project as a functioning whole as indicated by the Contract Documents.

2. Engineer's review and approval will not extend to means, methods, techniques, sequences, or procedures of construction (except where a particular means, method, technique, sequence, or procedure of construction is specifically and expressly called for by the Contract Documents) or to safety precautions or programs incident thereto. The review and approval of a separate item as such will not indicate approval of the assembly in which the item functions.

3. Engineer's review and approval shall not relieve Contractor from responsibility for any variation from the requirements of the Contract Documents unless Contractor has complied with the requirements of Paragraph 6.17.C.3 and Engineer has given written approval of each such variation by specific written notation thereof incorporated in or accompanying the Shop Drawing or Sample. Engineer's review and approval shall not relieve Contractor from responsibility for complying with the requirements of Paragraph 6.17.C.1.

E. Resubmittal Procedures

1. Contractor shall make corrections required by Engineer and shall return the required number of corrected copies of Shop Drawings and submit, as required, new Samples for review and approval. Contractor shall direct specific attention in writing to revisions other than the corrections called for by Engineer on previous submittals.

6.18 Continuing the Work

A. Contractor shall carry on the Work and adhere to the Progress Schedule during all disputes or

disagreements with Owner. No Work shall be delayed or postponed pending resolution of any disputes or disagreements, except as permitted by Paragraph 15.04 or as Owner and Contractor may otherwise agree in writing.

6.19 Contractor's General Warranty and Guarantee

A. Contractor warrants and guarantees to Owner that all Work will be in accordance with the Contract Documents and will not be defective. Engineer and its Related Entities shall be entitled to rely on representation of Contractor's warranty and guarantee.

B. Contractor's warranty and guarantee hereunder excludes defects or damage caused by:

1. abuse, modification, or improper maintenance or operation by persons other than Contractor, Subcontractors, Suppliers, or any other individual or entity for whom Contractor is responsible; or

2. normal wear and tear under normal usage.

C. Contractor's obligation to perform and complete the Work in accordance with the Contract Documents shall be absolute. None of the following will constitute an acceptance of Work that is not in accordance with the Contract Documents or a release of Contractor's obligation to perform the Work in accordance with the Contract Documents:

1. observations by Engineer;

2. recommendation by Engineer or payment by Owner of any progress or final payment;

3. the issuance of a certificate of Substantial Completion by Engineer or any payment related thereto by Owner;

4. use or occupancy of the Work or any part thereof by Owner;

5. any review and approval of a Shop Drawing or Sample submittal or the issuance of a notice of acceptability by Engineer;

6. any inspection, test, or approval by others; or

7. any correction of defective Work by Owner.

6.20 Indemnification

A. To the fullest extent permitted by Laws and Regulations, Contractor shall indemnify and hold harmless Owner and Engineer, and the officers, directors, partners, employees, agents, consultants and subcontractors of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or

arbitration or other dispute resolution costs) arising out of or relating to the performance of the Work, provided that any such claim, cost, loss, or damage is attributable to bodily injury, sickness, disease, or death, or to injury to or destruction of tangible property (other than the Work itself), including the loss of use resulting therefrom but only to the extent caused by any negligent act or omission of Contractor, any Subcontractor, any Supplier, or any individual or entity directly or indirectly employed by any of them to perform any of the Work or anyone for whose acts any of them may be liable .

B. In any and all claims against Owner or Engineer or any of their respective consultants, agents, officers, directors, partners, or employees by any employee (or the survivor or personal representative of such employee) of Contractor, any Subcontractor, any Supplier, or any individual or entity directly or indirectly employed by any of them to perform any of the Work, or anyone for whose acts any of them may be liable, the indemnification obligation under Paragraph 6.20.A shall not be limited in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for Contractor or any such Subcontractor, Supplier, or other individual or entity under workers' compensation acts, disability benefit acts, or other employee benefit acts.

C. The indemnification obligations of Contractor under Paragraph 6.20.A shall not extend to the liability of Engineer and Engineer's officers, directors, partners, employees, agents, consultants and subcontractors arising out of:

1. the preparation or approval of, or the failure to prepare or approve, maps, Drawings, opinions, reports, surveys, Change Orders, designs, or Specifications; or
2. giving directions or instructions, or failing to give them, if that is the primary cause of the injury or damage.

6.21 *Delegation of Professional Design Services*

A. Contractor will not be required to provide professional design services unless such services are specifically required by the Contract Documents for a portion of the Work or unless such services are required to carry out Contractor's responsibilities for construction means, methods, techniques, sequences and procedures. Contractor shall not be required to provide professional services in violation of applicable law.

B. If professional design services or certifications by a design professional related to systems, materials or equipment are specifically required of Contractor by the Contract Documents, Owner and Engineer will specify all performance and design criteria that such services must satisfy. Contractor shall cause such services or certifications to be provided by a properly licensed professional, whose signature and seal

shall appear on all drawings, calculations, specifications, certifications, Shop Drawings and other submittals prepared by such professional. Shop Drawings and other submittals related to the Work designed or certified by such professional, if prepared by others, shall bear such professional's written approval when submitted to Engineer.

C. Owner and Engineer shall be entitled to rely upon the adequacy, accuracy and completeness of the services, certifications or approvals performed by such design professionals, provided Owner and Engineer have specified to Contractor all performance and design criteria that such services must satisfy.

D. Pursuant to this Paragraph 6.21, Engineer's review and approval of design calculations and design drawings will be only for the limited purpose of checking for conformance with performance and design criteria given and the design concept expressed in the Contract Documents. Engineer's review and approval of Shop Drawings and other submittals (except design calculations and design drawings) will be only for the purpose stated in Paragraph 6.17.D.1.

E. Contractor shall not be responsible for the adequacy of the performance or design criteria required by the Contract Documents.

ARTICLE 7 - OTHER WORK AT THE SITE

7.01 *Related Work at Site*

A. Owner may perform other work related to the Project at the Site with Owner's employees, or via other direct contracts therefor, or have other work performed by utility owners. If such other work is not noted in the Contract Documents, then:

1. written notice thereof will be given to Contractor prior to starting any such other work; and

2. if Owner and Contractor are unable to agree on entitlement to or on the amount or extent, if any, of any adjustment in the Contract Price or Contract Times that should be allowed as a result of such other work, a Claim may be made therefor as provided in Paragraph 10.05.

B. Contractor shall afford each other contractor who is a party to such a direct contract, each utility owner and Owner, if Owner is performing other work with Owner's employees, proper and safe access to the Site, a reasonable opportunity for the introduction and storage of materials and equipment and the execution of such other work, and shall properly coordinate the Work with theirs. Contractor shall do all cutting, fitting, and patching of the Work that may be required to properly connect or otherwise make its several parts come together and

properly integrate with such other work. Contractor shall not endanger any work of others by cutting, excavating, or otherwise altering their work and will only cut or alter their work with the written consent of Engineer and the others whose work will be affected. The duties and responsibilities of Contractor under this Paragraph are for the benefit of such utility owners and other contractors to the extent that there are comparable provisions for the benefit of Contractor in said direct contracts between Owner and such utility owners and other contractors.

C. If the proper execution or results of any part of Contractor's Work depends upon work performed by others under this Article 7, Contractor shall inspect such other work and promptly report to Engineer in writing any delays, defects, or deficiencies in such other work that render it unavailable or unsuitable for the proper execution and results of Contractor's Work. Contractor's failure to so report will constitute an acceptance of such other work as fit and proper for integration with Contractor's Work except for latent defects and deficiencies in such other work.

7.02 *Coordination*

A. If Owner intends to contract with others for the performance of other work on the Project at the Site, the following will be set forth in Supplementary Conditions:

1. the individual or entity who will have authority and responsibility for coordination of the activities among the various contractors will be identified;

2. the specific matters to be covered by such authority and responsibility will be itemized; and

3. the extent of such authority and responsibilities will be provided.

B. Unless otherwise provided in the Supplementary Conditions, Owner shall have sole authority and responsibility for such coordination.

7.03 *Legal Relationships*

A. Paragraphs 7.01.A and 7.02 are not applicable for utilities not under the control of Owner.

B. Each other direct contract of Owner under Paragraph 7.01.A shall provide that the other contractor is liable to Owner and Contractor for the reasonable direct delay and disruption costs incurred by Contractor as a result of the other contractor's actions or inactions.

C. Contractor shall be liable to Owner and any other contractor for the reasonable direct delay and disruption costs incurred by such other contractor as a result of Contractor's action or inactions.

ARTICLE 8 - OWNER'S RESPONSIBILITIES

8.01 *Communications to Contractor*

A. Except as otherwise provided in these General Conditions, Owner shall issue all communications to Contractor through Engineer.

8.02 *Replacement of Engineer*

A. In case of termination of the employment of Engineer, Owner shall appoint an engineer to whom Contractor makes no reasonable objection, whose status under the Contract Documents shall be that of the former Engineer.

8.03 *Furnish Data*

A. Owner shall promptly furnish the data required of Owner under the Contract Documents.

8.04 *Pay When Due*

A. Owner shall make payments to Contractor when they are due as provided in Paragraphs 14.02.C and 14.07.C.

8.05 *Lands and Easements; Reports and Tests*

A. Owner's duties in respect of providing lands and easements and providing engineering surveys to establish reference points are set forth in Paragraphs 4.01 and 4.05. Paragraph 4.02 refers to Owner's identifying and making available to Contractor copies of reports of explorations and tests of subsurface conditions and drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Site that have been utilized by Engineer in preparing the Contract Documents.

8.06 *Insurance*

A. Owner's responsibilities, if any, in respect to purchasing and maintaining liability and property insurance are set forth in Article 5.

8.07 *Change Orders*

A. Owner is obligated to execute Change Orders as indicated in Paragraph 10.03.

8.08 *Inspections, Tests, and Approvals*

A. Owner's responsibility in respect to certain inspections, tests, and approvals is set forth in Paragraph 13.03.B.

8.09 *Limitations on Owner's Responsibilities*

A. The Owner shall not supervise, direct, or have control or authority over, nor be responsible for, Contractor's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of Contractor to comply with Laws and Regulations applicable to the performance of the Work. Owner will not be responsible for Contractor's failure to perform the Work in accordance with the Contract Documents.

8.10 *Undisclosed Hazardous Environmental Condition*

A. Owner's responsibility in respect to an undisclosed Hazardous Environmental Condition is set forth in Paragraph 4.06.

8.11 *Evidence of Financial Arrangements*

A. If and to the extent Owner has agreed to furnish Contractor reasonable evidence that financial arrangements have been made to satisfy Owner's obligations under the Contract Documents, Owner's responsibility in respect thereof will be as set forth in the Supplementary Conditions.

ARTICLE 9 - ENGINEER'S STATUS DURING CONSTRUCTION

9.01 *Owner's Representative*

A. Engineer will be Owner's representative during the construction period. The duties and responsibilities and the limitations of authority of Engineer as Owner's representative during construction are set forth in the Contract Documents and will not be changed without written consent of Owner and Engineer.

9.02 *Visits to Site*

A. Engineer will make visits to the Site at intervals appropriate to the various stages of construction as Engineer deems necessary in order to observe as an experienced and qualified design professional the progress that has been made and the quality of the various aspects of Contractor's executed Work. Based on information obtained during such visits and observations, Engineer, for the benefit of Owner, will determine, in general, if the Work is proceeding in accordance with the Contract Documents. Engineer will not be required to make exhaustive or continuous inspections on the Site to check the quality or quantity of the Work. Engineer's efforts will be directed toward providing for Owner a greater degree of confidence that the completed Work will conform generally to the Contract Documents. On the basis of such visits and observations, Engineer will keep

Owner informed of the progress of the Work and will endeavor to guard Owner against defective Work.

B. Engineer's visits and observations are subject to all the limitations on Engineer's authority and responsibility set forth in Paragraph 9.09. Particularly, but without limitation, during or as a result of Engineer's visits or observations of Contractor's Work Engineer will not supervise, direct, control, or have authority over or be responsible for Contractor's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of Contractor to comply with Laws and Regulations applicable to the performance of the Work.

9.03 *Project Representative*

A. If Owner and Engineer agree, Engineer will furnish a Resident Project Representative to assist Engineer in providing more extensive observation of the Work. The authority and responsibilities of any such Resident Project Representative and assistants will be as provided in the Supplementary Conditions, and limitations on the responsibilities thereof will be as provided in Paragraph 9.09. If Owner designates another representative or agent to represent Owner at the Site who is not Engineer's consultant, agent or employee, the responsibilities and authority and limitations thereon of such other individual or entity will be as provided in the Supplementary Conditions.

9.04 *Authorized Variations in Work*

A. Engineer may authorize minor variations in the Work from the requirements of the Contract Documents which do not involve an adjustment in the Contract Price or the Contract Times and are compatible with the design concept of the completed Project as a functioning whole as indicated by the Contract Documents. These may be accomplished by a Field Order and will be binding on Owner and also on Contractor, who shall perform the Work involved promptly. If Owner or Contractor believes that a Field Order justifies an adjustment in the Contract Price or Contract Times, or both, and the parties are unable to agree on entitlement to or on the amount or extent, if any, of any such adjustment, a Claim may be made therefor as provided in Paragraph 10.05.

9.05 *Rejecting Defective Work*

A. Engineer will have authority to reject Work which Engineer believes to be defective, or that Engineer believes will not produce a completed Project that conforms to the Contract Documents or that will prejudice the integrity of the design concept of the completed Project as a functioning whole as indicated by the Contract Documents. Engineer will also have authority to require special inspection or testing of the Work as provided in Paragraph 13.04, whether or not the Work is fabricated, installed, or completed.

9.06 *Shop Drawings, Change Orders and Payments*

A. In connection with Engineer's authority, and limitations thereof, as to Shop Drawings and Samples, see Paragraph 6.17.

B. In connection with Engineer's authority, and limitations thereof, as to design calculations and design drawings submitted in response to a delegation of professional design services, if any, see Paragraph 6.21.

C. In connection with Engineer's authority as to Change Orders, see Articles 10, 11, and 12.

D. In connection with Engineer's authority as to Applications for Payment, see Article 14.

9.07 *Determinations for Unit Price Work*

A. Engineer will determine the actual quantities and classifications of Unit Price Work performed by Contractor. Engineer will review with Contractor the Engineer's preliminary determinations on such matters before rendering a written decision thereon (by recommendation of an Application for Payment or otherwise). Engineer's written decision thereon will be final and binding (except as modified by Engineer to reflect changed factual conditions or more accurate data) upon Owner and Contractor, subject to the provisions of Paragraph 10.05.

9.08 *Decisions on Requirements of Contract Documents and Acceptability of Work*

A. Engineer will be the initial interpreter of the requirements of the Contract Documents and judge of the acceptability of the Work thereunder. All matters in question and other matters between Owner and Contractor arising prior to the date final payment is due relating to the acceptability of the Work, and the interpretation of the requirements of the Contract Documents pertaining to the performance of the Work, will be referred initially to Engineer in writing within 30 days of the event giving rise to the question

B. Engineer will, with reasonable promptness, render a written decision on the issue referred. If Owner or Contractor believe that any such decision entitles them to an adjustment in the Contract Price or Contract Times or both, a Claim may be made under Paragraph 10.05. The date of Engineer's decision shall be the date of the event giving rise to the issues referenced for the purposes of Paragraph 10.05.B.

C. Engineer's written decision on the issue referred will be final and binding on Owner and Contractor, subject to the provisions of Paragraph 10.05.

D. When functioning as interpreter and judge under this Paragraph 9.08, Engineer will not show

partiality to Owner or Contractor and will not be liable in connection with any interpretation or decision rendered in good faith in such capacity.

9.09 *Limitations on Engineer's Authority and Responsibilities*

A. Neither Engineer's authority or responsibility under this Article 9 or under any other provision of the Contract Documents nor any decision made by Engineer in good faith either to exercise or not exercise such authority or responsibility or the undertaking, exercise, or performance of any authority or responsibility by Engineer shall create, impose, or give rise to any duty in contract, tort, or otherwise owed by Engineer to Contractor, any Subcontractor, any Supplier, any other individual or entity, or to any surety for or employee or agent of any of them.

B. Engineer will not supervise, direct, control, or have authority over or be responsible for Contractor's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of Contractor to comply with Laws and Regulations applicable to the performance of the Work. Engineer will not be responsible for Contractor's failure to perform the Work in accordance with the Contract Documents.

C. Engineer will not be responsible for the acts or omissions of Contractor or of any Subcontractor, any Supplier, or of any other individual or entity performing any of the Work.

D. Engineer's review of the final Application for Payment and accompanying documentation and all maintenance and operating instructions, schedules, guarantees, bonds, certificates of inspection, tests and approvals, and other documentation required to be delivered by Paragraph 14.07.A will only be to determine generally that their content complies with the requirements of, and in the case of certificates of inspections, tests, and approvals that the results certified indicate compliance with the Contract Documents.

E. The limitations upon authority and responsibility set forth in this Paragraph 9.09 shall also apply to, the Resident Project Representative, if any, and assistants, if any.

ARTICLE 10 - CHANGES IN THE WORK; CLAIMS

10.01 *Authorized Changes in the Work*

A. Without invalidating the Contract and without notice to any surety, Owner may, at any time or from time to time, order additions, deletions, or revisions in the Work by a Change Order, or a Work Change Directive. Upon receipt of any such document, Contractor shall

promptly proceed with the Work involved which will be performed under the applicable conditions of the Contract Documents (except as otherwise specifically provided).

B. If Owner and Contractor are unable to agree on entitlement to, or on the amount or extent, if any, of an adjustment in the Contract Price or Contract Times, or both, that should be allowed as a result of a Work Change Directive, a Claim may be made therefor as provided in Paragraph 10.05.

10.02 *Unauthorized Changes in the Work*

A. Contractor shall not be entitled to an increase in the Contract Price or an extension of the Contract Times with respect to any work performed that is not required by the Contract Documents as amended, modified, or supplemented as provided in Paragraph 3.04, except in the case of an emergency as provided in Paragraph 6.16 or in the case of uncovering Work as provided in Paragraph 13.04.B.

10.03 *Execution of Change Orders*

A. Owner and Contractor shall execute appropriate Change Orders recommended by Engineer covering:

1. changes in the Work which are: (i) ordered by Owner pursuant to Paragraph 10.01.A, (ii) required because of acceptance of defective Work under Paragraph 13.08.A or Owner's correction of defective Work under Paragraph 13.09, or (iii) agreed to by the parties;

2. changes in the Contract Price or Contract Times which are agreed to by the parties, including any undisputed sum or amount of time for Work actually performed in accordance with a Work Change Directive; and

3. changes in the Contract Price or Contract Times which embody the substance of any written decision rendered by Engineer pursuant to Paragraph 10.05; provided that, in lieu of executing any such Change Order, an appeal may be taken from any such decision in accordance with the provisions of the Contract Documents and applicable Laws and Regulations, but during any such appeal, Contractor shall carry on the Work and adhere to the Progress Schedule as provided in Paragraph 6.18.A.

10.04 *Notification to Surety*

A. If notice of any change affecting the general scope of the Work or the provisions of the Contract Documents (including, but not limited to, Contract Price or Contract Times) is required by the provisions of any bond to be given to a surety, the giving of any such notice will be Contractor's responsibility. The amount of each applicable bond will be adjusted to reflect the effect of any such change.

10.05 *Claims*

A. *Engineer's Decision Required:* All Claims, except those waived pursuant to Paragraph 14.09, shall be referred to the Engineer for decision. A decision by Engineer shall be required as a condition precedent to any exercise by Owner or Contractor of any rights or remedies either may otherwise have under the Contract Documents or by Laws and Regulations in respect of such Claims.

B. *Notice:* Written notice stating the general nature of each Claim, shall be delivered by the claimant to Engineer and the other party to the Contract promptly (but in no event later than 30 days) after the start of the event giving rise thereto. The responsibility to substantiate a Claim shall rest with the party making the Claim. Notice of the amount or extent of the Claim, with supporting data shall be delivered to the Engineer and the other party to the Contract within 60 days after the start of such event (unless Engineer allows additional time for claimant to submit additional or more accurate data in support of such Claim). A Claim for an adjustment in Contract Price shall be prepared in accordance with the provisions of Paragraph 12.01.B. A Claim for an adjustment in Contract Time shall be prepared in accordance with the provisions of Paragraph 12.02.B. Each Claim shall be accompanied by claimant's written statement that the adjustment claimed is the entire adjustment to which the claimant believes it is entitled as a result of said event. The opposing party shall submit any response to Engineer and the claimant within 30 days after receipt of the claimant's last submittal (unless Engineer allows additional time).

C. *Engineer's Action:* Engineer will review each Claim and, within 30 days after receipt of the last submittal of the claimant or the last submittal of the opposing party, if any, take one of the following actions in writing:

1. deny the Claim in whole or in part,

2. approve the Claim, or

3. notify the parties that the Engineer is unable to resolve the Claim if, in the Engineer's sole discretion, it would be inappropriate for the Engineer to do so. For purposes of further resolution of the Claim, such notice shall be deemed a denial.

D. In the event that Engineer does not take action on a Claim within said 30 days, the Claim shall be deemed denied.

E. Engineer's written action under Paragraph 10.05.C or denial pursuant to Paragraphs 10.05.C.3 or 10.05.D will be final and binding upon Owner and Contractor, unless Owner or Contractor invoke the dispute resolution procedure set forth in Article 16 within 30 days of such action or denial.

F. No Claim for an adjustment in Contract Price or Contract Times will be valid if not submitted in accordance with this Paragraph 10.05.

ARTICLE 11 - COST OF THE WORK; ALLOWANCES; UNIT PRICE WORK

11.01 *Cost of the Work*

A. *Costs Included:* The term Cost of the Work means the sum of all costs, except those excluded in Paragraph 11.01.B, necessarily incurred and paid by Contractor in the proper performance of the Work. When the value of any Work covered by a Change Order or when a Claim for an adjustment in Contract Price is determined on the basis of Cost of the Work, the costs to be reimbursed to Contractor will be only those additional or incremental costs required because of the change in the Work or because of the event giving rise to the Claim. Except as otherwise may be agreed to in writing by Owner, such costs shall be in amounts no higher than those prevailing in the locality of the Project, shall include only the following items, and shall not include any of the costs itemized in Paragraph 11.01.B.

1. Payroll costs for employees in the direct employ of Contractor in the performance of the Work under schedules of job classifications agreed upon by Owner and Contractor. Such employees shall include, without limitation, superintendents, foremen, and other personnel employed full time at the Site. Payroll costs for employees not employed full time on the Work shall be apportioned on the basis of their time spent on the Work. Payroll costs shall include, but not be limited to, salaries and wages plus the cost of fringe benefits, which shall include social security contributions, unemployment, excise, and payroll taxes, workers' compensation, health and retirement benefits, bonuses, sick leave, vacation and holiday pay applicable thereto. The expenses of performing Work outside of regular working hours, on Saturday, Sunday, or legal holidays, shall be included in the above to the extent authorized by Owner.

2. Cost of all materials and equipment furnished and incorporated in the Work, including costs of transportation and storage thereof, and Suppliers' field services required in connection therewith. All cash discounts shall accrue to Contractor unless Owner deposits funds with Contractor with which to make payments, in which case the cash discounts shall accrue to Owner. All trade discounts, rebates and refunds and returns from sale of surplus materials and equipment shall accrue to Owner, and Contractor shall make provisions so that they may be obtained.

3. Payments made by Contractor to Subcontractors for Work performed by Subcontractors. If required by Owner, Contractor shall obtain competitive bids from subcontractors acceptable to Owner and

Contractor and shall deliver such bids to Owner, who will then determine, with the advice of Engineer, which bids, if any, will be acceptable. If any subcontract provides that the Subcontractor is to be paid on the basis of Cost of the Work plus a fee, the Subcontractor's Cost of the Work and fee shall be determined in the same manner as Contractor's Cost of the Work and fee as provided in this Paragraph 11.01.

4. Costs of special consultants (including but not limited to Engineers, architects, testing laboratories, surveyors, attorneys, and accountants) employed for services specifically related to the Work.

5. Supplemental costs including the following:

a. The proportion of necessary transportation, travel, and subsistence expenses of Contractor's employees incurred in discharge of duties connected with the Work.

b. Cost, including transportation and maintenance, of all materials, supplies, equipment, machinery, appliances, office, and temporary facilities at the Site, and hand tools not owned by the workers, which are consumed in the performance of the Work, and cost, less market value, of such items used but not consumed which remain the property of Contractor.

c. Rentals of all construction equipment and machinery, and the parts thereof whether rented from Contractor or others in accordance with rental agreements approved by Owner with the advice of Engineer, and the costs of transportation, loading, unloading, assembly, dismantling, and removal thereof. All such costs shall be in accordance with the terms of said rental agreements. The rental of any such equipment, machinery, or parts shall cease when the use thereof is no longer necessary for the Work.

d. Sales, consumer, use, and other similar taxes related to the Work, and for which Contractor is liable, imposed by Laws and Regulations.

e. Deposits lost for causes other than negligence of Contractor, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, and royalty payments and fees for permits and licenses.

f. Losses and damages (and related expenses) caused by damage to the Work, not compensated by insurance or otherwise, sustained by Contractor in connection with the performance of the Work (except losses and damages within the deductible amounts of property insurance established in accordance with Paragraph 5.06.D), provided such losses and damages have

resulted from causes other than the negligence of Contractor, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable. Such losses shall include settlements made with the written consent and approval of Owner. No such losses, damages, and expenses shall be included in the Cost of the Work for the purpose of determining Contractor's fee.

g. The cost of utilities, fuel, and sanitary facilities at the Site.

h. Minor expenses such as telegrams, long distance telephone calls, telephone service at the Site, expresses, and similar petty cash items in connection with the Work.

i. The costs of premiums for all bonds and insurance Contractor is required by the Contract Documents to purchase and maintain.

B. Costs Excluded: The term Cost of the Work shall not include any of the following items:

1. Payroll costs and other compensation of Contractor's officers, executives, principals (of partnerships and sole proprietorships), general managers, safety managers, engineers, architects, estimators, attorneys, auditors, accountants, purchasing and contracting agents, expeditors, timekeepers, clerks, and other personnel employed by Contractor, whether at the Site or in Contractor's principal or branch office for general administration of the Work and not specifically included in the agreed upon schedule of job classifications referred to in Paragraph 11.01.A.1 or specifically covered by Paragraph 11.01.A.4, all of which are to be considered administrative costs covered by the Contractor's fee.

2. Expenses of Contractor's principal and branch offices other than Contractor's office at the Site.

3. Any part of Contractor's capital expenses, including interest on Contractor's capital employed for the Work and charges against Contractor for delinquent payments.

4. Costs due to the negligence of Contractor, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, including but not limited to, the correction of defective Work, disposal of materials or equipment wrongly supplied, and making good any damage to property.

5. Other overhead or general expense costs of any kind and the costs of any item not specifically and expressly included in Paragraphs 11.01.A and 11.01.B.

C. Contractor's Fee: When all the Work is performed on the basis of cost-plus, Contractor's fee shall

be determined as set forth in the Agreement. When the value of any Work covered by a Change Order or when a Claim for an adjustment in Contract Price is determined on the basis of Cost of the Work, Contractor's fee shall be determined as set forth in Paragraph 12.01.C.

D. Documentation: Whenever the Cost of the Work for any purpose is to be determined pursuant to Paragraphs 11.01.A and 11.01.B, Contractor will establish and maintain records thereof in accordance with generally accepted accounting practices and submit in a form acceptable to Engineer an itemized cost breakdown together with supporting data.

11.02 Allowances

A. It is understood that Contractor has included in the Contract Price all allowances so named in the Contract Documents and shall cause the Work so covered to be performed for such sums and by such persons or entities as may be acceptable to Owner and Engineer.

B. Cash Allowances

1. Contractor agrees that:

a. the cash allowances include the cost to Contractor (less any applicable trade discounts) of materials and equipment required by the allowances to be delivered at the Site, and all applicable taxes; and

b. Contractor's costs for unloading and handling on the Site, labor, installation, overhead, profit, and other expenses contemplated for the cash allowances have been included in the Contract Price and not in the allowances, and no demand for additional payment on account of any of the foregoing will be valid.

C. Contingency Allowance

1. Contractor agrees that a contingency allowance, if any, is for the sole use of Owner to cover unanticipated costs.

D. Prior to final payment, an appropriate Change Order will be issued as recommended by Engineer to reflect actual amounts due Contractor on account of Work covered by allowances, and the Contract Price shall be correspondingly adjusted.

11.03 Unit Price Work

A. Where the Contract Documents provide that all or part of the Work is to be Unit Price Work, initially the Contract Price will be deemed to include for all Unit Price Work an amount equal to the sum of the unit price for each separately identified item of Unit Price Work times the estimated quantity of each item as indicated in the Agreement.

B. The estimated quantities of items of Unit Price Work are not guaranteed and are solely for the purpose of comparison of Bids and determining an initial Contract Price. Determinations of the actual quantities and classifications of Unit Price Work performed by Contractor will be made by Engineer subject to the provisions of Paragraph 9.07.

C. Each unit price will be deemed to include an amount considered by Contractor to be adequate to cover Contractor's overhead and profit for each separately identified item.

D. Owner or Contractor may make a Claim for an adjustment in the Contract Price in accordance with Paragraph 10.05 if:

1. the quantity of any item of Unit Price Work performed by Contractor differs materially and significantly from the estimated quantity of such item indicated in the Agreement; and

2. there is no corresponding adjustment with respect any other item of Work; and

3. Contractor believes that Contractor is entitled to an increase in Contract Price as a result of having incurred additional expense or Owner believes that Owner is entitled to a decrease in Contract Price and the parties are unable to agree as to the amount of any such increase or decrease.

ARTICLE 12 - CHANGE OF CONTRACT PRICE; CHANGE OF CONTRACT TIMES

12.01 *Change of Contract Price*

A. The Contract Price may only be changed by a Change Order. Any Claim for an adjustment in the Contract Price shall be based on written notice submitted by the party making the Claim to the Engineer and the other party to the Contract in accordance with the provisions of Paragraph 10.05.

B. The value of any Work covered by a Change Order or of any Claim for an adjustment in the Contract Price will be determined as follows:

1. where the Work involved is covered by unit prices contained in the Contract Documents, by application of such unit prices to the quantities of the items involved (subject to the provisions of Paragraph 11.03); or

2. where the Work involved is not covered by unit prices contained in the Contract Documents, by a mutually agreed lump sum (which may include an

allowance for overhead and profit not necessarily in accordance with Paragraph 12.01.C.2); or

3. where the Work involved is not covered by unit prices contained in the Contract Documents and agreement to a lump sum is not reached under Paragraph 12.01.B.2, on the basis of the Cost of the Work (determined as provided in Paragraph 11.01) plus a Contractor's fee for overhead and profit (determined as provided in Paragraph 12.01.C).

C. *Contractor's Fee:* The Contractor's fee for overhead and profit shall be determined as follows:

1. a mutually acceptable fixed fee; or

2. if a fixed fee is not agreed upon, then a fee based on the following percentages of the various portions of the Cost of the Work:

a. for costs incurred under Paragraphs 11.01.A.1 and 11.01.A.2, the Contractor's fee shall be 15 percent;

b. for costs incurred under Paragraph 11.01.A.3, the Contractor's fee shall be five percent;

c. where one or more tiers of subcontracts are on the basis of Cost of the Work plus a fee and no fixed fee is agreed upon, the intent of Paragraph 12.01.C.2.a is that the Subcontractor who actually performs the Work, at whatever tier, will be paid a fee of 15 percent of the costs incurred by such Subcontractor under Paragraphs 11.01.A.1 and 11.01.A.2 and that any higher tier Subcontractor and Contractor will each be paid a fee of five percent of the amount paid to the next lower tier Subcontractor;

d. no fee shall be payable on the basis of costs itemized under Paragraphs 11.01.A.4, 11.01.A.5, and 11.01.B;

e. the amount of credit to be allowed by Contractor to Owner for any change which results in a net decrease in cost will be the amount of the actual net decrease in cost plus a deduction in Contractor's fee by an amount equal to five percent of such net decrease; and

f. when both additions and credits are involved in any one change, the adjustment in Contractor's fee shall be computed on the basis of the net change in accordance with Paragraphs 12.01.C.2.a through 12.01.C.2.e, inclusive.

12.02 *Change of Contract Times*

A. The Contract Times may only be changed by a Change Order. Any Claim for an adjustment in the Contract Times shall be based on written notice submitted

by the party making the Claim to the Engineer and the other party to the Contract in accordance with the provisions of Paragraph 10.05.

B. Any adjustment of the Contract Times covered by a Change Order or any Claim for an adjustment in the Contract Times will be determined in accordance with the provisions of this Article 12.

12.03 Delays

A. Where Contractor is prevented from completing any part of the Work within the Contract Times due to delay beyond the control of Contractor, the Contract Times will be extended in an amount equal to the time lost due to such delay if a Claim is made therefor as provided in Paragraph 12.02.A. Delays beyond the control of Contractor shall include, but not be limited to, acts or neglect by Owner, acts or neglect of utility owners or other contractors performing other work as contemplated by Article 7, fires, floods, epidemics, abnormal weather conditions, or acts of God.

B. If Owner, Engineer, or other contractors or utility owners performing other work for Owner as contemplated by Article 7, or anyone for whom Owner is responsible, delays, disrupts, or interferes with the performance or progress of the Work, then Contractor shall be entitled to an equitable adjustment in the Contract Price or the Contract Times, or both. Contractor's entitlement to an adjustment of the Contract Times is conditioned on such adjustment being essential to Contractor's ability to complete the Work within the Contract Times.

C. If Contractor is delayed in the performance or progress of the Work by fire, flood, epidemic, abnormal weather conditions, acts of God, acts or failures to act of utility owners not under the control of Owner, or other causes not the fault of and beyond control of Owner and Contractor, then Contractor shall be entitled to an equitable adjustment in Contract Times, if such adjustment is essential to Contractor's ability to complete the Work within the Contract Times. Such an adjustment shall be Contractor's sole and exclusive remedy for the delays described in this Paragraph 12.03.C.

D. Owner, Engineer and the Related Entities of each of them shall not be liable to Contractor for any claims, costs, losses, or damages (including but not limited to all fees and charges of Engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) sustained by Contractor on or in connection with any other project or anticipated project.

E. Contractor shall not be entitled to an adjustment in Contract Price or Contract Times for delays within the control of Contractor. Delays attributable to and within the control of a Subcontractor or Supplier shall be deemed to be delays within the control of Contractor.

ARTICLE 13 - TESTS AND INSPECTIONS; CORRECTION, REMOVAL OR ACCEPTANCE OF DEFECTIVE WORK

13.01 Notice of Defects

A. Prompt notice of all defective Work of which Owner or Engineer has actual knowledge will be given to Contractor. All defective Work may be rejected, corrected, or accepted as provided in this Article 13.

13.02 Access to Work

A. Owner, Engineer, their consultants and other representatives and personnel of Owner, independent testing laboratories, and governmental agencies with jurisdictional interests will have access to the Site and the Work at reasonable times for their observation, inspecting, and testing. Contractor shall provide them proper and safe conditions for such access and advise them of Contractor's Site safety procedures and programs so that they may comply therewith as applicable.

13.03 Tests and Inspections

A. Contractor shall give Engineer timely notice of readiness of the Work for all required inspections, tests, or approvals and shall cooperate with inspection and testing personnel to facilitate required inspections or tests.

B. Owner shall employ and pay for the services of an independent testing laboratory to perform all inspections, tests, or approvals required by the Contract Documents except:

1. for inspections, tests, or approvals covered by Paragraphs 13.03.C and 13.03.D below;

2. that costs incurred in connection with tests or inspections conducted pursuant to Paragraph 13.04.B shall be paid as provided in said Paragraph 13.04.C; and

3. as otherwise specifically provided in the Contract Documents.

C. If Laws or Regulations of any public body having jurisdiction require any Work (or part thereof) specifically to be inspected, tested, or approved by an employee or other representative of such public body, Contractor shall assume full responsibility for arranging and obtaining such inspections, tests, or approvals, pay all costs in connection therewith, and furnish Engineer the required certificates of inspection or approval.

D. Contractor shall be responsible for arranging and obtaining and shall pay all costs in connection with any inspections, tests, or approvals required for Owner's and Engineer's acceptance of materials or equipment to

be incorporated in the Work; or acceptance of materials, mix designs, or equipment submitted for approval prior to Contractor's purchase thereof for incorporation in the Work. Such inspections, tests, or approvals shall be performed by organizations acceptable to Owner and Engineer.

E. If any Work (or the work of others) that is to be inspected, tested, or approved is covered by Contractor without written concurrence of Engineer, it must, if requested by Engineer, be uncovered for observation.

F. Uncovering Work as provided in Paragraph 13.03.E shall be at Contractor's expense unless Contractor has given Engineer timely notice of Contractor's intention to cover the same and Engineer has not acted with reasonable promptness in response to such notice.

13.04 *Uncovering Work*

A. If any Work is covered contrary to the written request of Engineer, it must, if requested by Engineer, be uncovered for Engineer's observation and replaced at Contractor's expense.

B. If Engineer considers it necessary or advisable that covered Work be observed by Engineer or inspected or tested by others, Contractor, at Engineer's request, shall uncover, expose, or otherwise make available for observation, inspection, or testing as Engineer may require, that portion of the Work in question, furnishing all necessary labor, material, and equipment.

C. If it is found that the uncovered Work is defective, Contractor shall pay all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such uncovering, exposure, observation, inspection, and testing, and of satisfactory replacement or reconstruction (including but not limited to all costs of repair or replacement of work of others); and Owner shall be entitled to an appropriate decrease in the Contract Price. If the parties are unable to agree as to the amount thereof, Owner may make a Claim therefor as provided in Paragraph 10.05.

D. If, the uncovered Work is not found to be defective, Contractor shall be allowed an increase in the Contract Price or an extension of the Contract Times, or both, directly attributable to such uncovering, exposure, observation, inspection, testing, replacement, and reconstruction. If the parties are unable to agree as to the amount or extent thereof, Contractor may make a Claim therefor as provided in Paragraph 10.05.

13.05 *Owner May Stop the Work*

A. If the Work is defective, or Contractor fails to supply sufficient skilled workers or suitable materials or equipment, or fails to perform the Work in such a way that the completed Work will conform to the Contract Documents, Owner may order Contractor to stop the Work, or any portion thereof, until the cause for such order has been eliminated; however, this right of Owner to stop the Work shall not give rise to any duty on the part of Owner to exercise this right for the benefit of Contractor, any Subcontractor, any Supplier, any other individual or entity, or any surety for, or employee or agent of any of them.

13.06 *Correction or Removal of Defective Work*

A. Promptly after receipt of notice, Contractor shall correct all defective Work, whether or not fabricated, installed, or completed, or, if the Work has been rejected by Engineer, remove it from the Project and replace it with Work that is not defective. Contractor shall pay all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such correction or removal (including but not limited to all costs of repair or replacement of work of others).

B. When correcting defective Work under the terms of this Paragraph 13.06 or Paragraph 13.07, Contractor shall take no action that would void or otherwise impair Owner's special warranty and guarantee, if any, on said Work.

13.07 *Correction Period*

A. If within one year after the date of Substantial Completion (or such longer period of time as may be prescribed by the terms of any applicable special guarantee required by the Contract Documents) or by any specific provision of the Contract Documents, any Work is found to be defective, or if the repair of any damages to the land or areas made available for Contractor's use by Owner or permitted by Laws and Regulations as contemplated in Paragraph 6.11.A is found to be defective, Contractor shall promptly, without cost to Owner and in accordance with Owner's written instructions:

1. repair such defective land or areas; or
2. correct such defective Work; or
3. if the defective Work has been rejected by Owner, remove it from the Project and replace it with Work that is not defective, and
4. satisfactorily correct or repair or remove and replace any damage to other Work, to the work of others or other land or areas resulting therefrom.

B. If Contractor does not promptly comply with the terms of Owner's written instructions, or in an emergency where delay would cause serious risk of loss or damage, Owner may have the defective Work corrected or repaired or may have the rejected Work removed and replaced. All claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such correction or repair or such removal and replacement (including but not limited to all costs of repair or replacement of work of others) will be paid by Contractor.

C. In special circumstances where a particular item of equipment is placed in continuous service before Substantial Completion of all the Work, the correction period for that item may start to run from an earlier date if so provided in the Specifications .

D. Where defective Work (and damage to other Work resulting therefrom) has been corrected or removed and replaced under this Paragraph 13.07, the correction period hereunder with respect to such Work will be extended for an additional period of one year after such correction or removal and replacement has been satisfactorily completed.

E. Contractor's obligations under this Paragraph 13.07 are in addition to any other obligation or warranty. The provisions of this Paragraph 13.07 shall not be construed as a substitute for or a waiver of the provisions of any applicable statute of limitation or repose.

13.08 *Acceptance of Defective Work*

A. If, instead of requiring correction or removal and replacement of defective Work, Owner (and, prior to Engineer's recommendation of final payment, Engineer) prefers to accept it, Owner may do so. Contractor shall pay all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) attributable to Owner's evaluation of and determination to accept such defective Work (such costs to be approved by Engineer as to reasonableness) and the diminished value of the Work to the extent not otherwise paid by Contractor pursuant to this sentence. If any such acceptance occurs prior to Engineer's recommendation of final payment, a Change Order will be issued incorporating the necessary revisions in the Contract Documents with respect to the Work, and Owner shall be entitled to an appropriate decrease in the Contract Price, reflecting the diminished value of Work so accepted. If the parties are unable to agree as to the amount thereof, Owner may make a Claim therefor as provided in Paragraph 10.05. If the acceptance occurs after such recommendation, an appropriate amount will be paid by Contractor to Owner.

13.09 *Owner May Correct Defective Work*

A. If Contractor fails within a reasonable time after written notice from Engineer to correct defective Work or to remove and replace rejected Work as required by Engineer in accordance with Paragraph 13.06.A, or if Contractor fails to perform the Work in accordance with the Contract Documents, or if Contractor fails to comply with any other provision of the Contract Documents, Owner may, after seven days written notice to Contractor, correct or remedy any such deficiency.

B. In exercising the rights and remedies under this Paragraph 13.09, Owner shall proceed expeditiously. In connection with such corrective or remedial action, Owner may exclude Contractor from all or part of the Site, take possession of all or part of the Work and suspend Contractor's services related thereto, take possession of Contractor's tools, appliances, construction equipment and machinery at the Site, and incorporate in the Work all materials and equipment stored at the Site or for which Owner has paid Contractor but which are stored elsewhere. Contractor shall allow Owner, Owner's representatives, agents and employees, Owner's other contractors, and Engineer and Engineer's consultants access to the Site to enable Owner to exercise the rights and remedies under this Paragraph.

C. All claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) incurred or sustained by Owner in exercising the rights and remedies under this Paragraph 13.09 will be charged against Contractor, and a Change Order will be issued incorporating the necessary revisions in the Contract Documents with respect to the Work; and Owner shall be entitled to an appropriate decrease in the Contract Price. If the parties are unable to agree as to the amount of the adjustment, Owner may make a Claim therefor as provided in Paragraph 10.05. Such claims, costs, losses and damages will include but not be limited to all costs of repair, or replacement of work of others destroyed or damaged by correction, removal, or replacement of Contractor's defective Work.

D. Contractor shall not be allowed an extension of the Contract Times because of any delay in the performance of the Work attributable to the exercise by Owner of Owner's rights and remedies under this Paragraph 13.09.

ARTICLE 14 - PAYMENTS TO CONTRACTOR AND COMPLETION

14.01 *Schedule of Values*

A. The Schedule of Values established as provided in Paragraph 2.07.A will serve as the basis for progress

payments and will be incorporated into a form of Application for Payment acceptable to Engineer. Progress payments on account of Unit Price Work will be based on the number of units completed.

14.02 *Progress Payments*

A. Applications for Payments

1. At least 20 days before the date established in the Agreement for each progress payment (but not more often than once a month), Contractor shall submit to Engineer for review an Application for Payment filled out and signed by Contractor covering the Work completed as of the date of the Application and accompanied by such supporting documentation as is required by the Contract Documents. If payment is requested on the basis of materials and equipment not incorporated in the Work but delivered and suitably stored at the Site or at another location agreed to in writing, the Application for Payment shall also be accompanied by a bill of sale, invoice, or other documentation warranting that Owner has received the materials and equipment free and clear of all Liens and evidence that the materials and equipment are covered by appropriate property insurance or other arrangements to protect Owner's interest therein, all of which must be satisfactory to Owner.

2. Beginning with the second Application for Payment, each Application shall include an affidavit of Contractor stating that all previous progress payments received on account of the Work have been applied on account to discharge Contractor's legitimate obligations associated with prior Applications for Payment.

3. The amount of retainage with respect to progress payments will be as stipulated in the Agreement.

B. Review of Applications

1. Engineer will, within 10 days after receipt of each Application for Payment, either indicate in writing a recommendation of payment and present the Application to Owner or return the Application to Contractor indicating in writing Engineer's reasons for refusing to recommend payment. In the latter case, Contractor may make the necessary corrections and resubmit the Application.

2. Engineer's recommendation of any payment requested in an Application for Payment will constitute a representation by Engineer to Owner, based on Engineer's observations on the Site of the executed Work as an experienced and qualified design professional and on Engineer's review of the Application for Payment and the accompanying data and schedules, that to the best of Engineer's knowledge, information and belief:

a. the Work has progressed to the point indicated;

b. the quality of the Work is generally in accordance with the Contract Documents (subject to an evaluation of the Work as a functioning whole prior to or upon Substantial Completion, to the results of any subsequent tests called for in the Contract Documents, to a final determination of quantities and classifications for Unit Price Work under Paragraph 9.07, and to any other qualifications stated in the recommendation); and

c. the conditions precedent to Contractor's being entitled to such payment appear to have been fulfilled in so far as it is Engineer's responsibility to observe the Work.

3. By recommending any such payment Engineer will not thereby be deemed to have represented that:

a. inspections made to check the quality or the quantity of the Work as it has been performed have been exhaustive, extended to every aspect of the Work in progress, or involved detailed inspections of the Work beyond the responsibilities specifically assigned to Engineer in the Contract Documents; or

b. that there may not be other matters or issues between the parties that might entitle Contractor to be paid additionally by Owner or entitle Owner to withhold payment to Contractor.

4. Neither Engineer's review of Contractor's Work for the purposes of recommending payments nor Engineer's recommendation of any payment, including final payment, will impose responsibility on Engineer:

a. to supervise, direct, or control the Work, or

b. for the means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or

c. for Contractor's failure to comply with Laws and Regulations applicable to Contractor's performance of the Work, or

d. to make any examination to ascertain how or for what purposes Contractor has used the moneys paid on account of the Contract Price, or

e. to determine that title to any of the Work, materials, or equipment has passed to Owner free and clear of any Liens.

5. Engineer may refuse to recommend the whole or any part of any payment if, in Engineer's opinion, it would be incorrect to make the representations to Owner stated in Paragraph 14.02.B.2. Engineer may also refuse to recommend any such payment or, because of subsequently discovered evidence or the results of subsequent

inspections or tests, revise or revoke any such payment recommendation previously made, to such extent as may be necessary in Engineer's opinion to protect Owner from loss because:

- a. the Work is defective, or completed Work has been damaged, requiring correction or replacement;
- b. the Contract Price has been reduced by Change Orders;
- c. Owner has been required to correct defective Work or complete Work in accordance with Paragraph 13.09; or
- d. Engineer has actual knowledge of the occurrence of any of the events enumerated in Paragraph 15.02.A.

C. Payment Becomes Due

1. Ten days after presentation of the Application for Payment to Owner with Engineer's recommendation, the amount recommended will (subject to the provisions of Paragraph 14.02.D) become due, and when due will be paid by Owner to Contractor.

D. Reduction in Payment

1. Owner may refuse to make payment of the full amount recommended by Engineer because:

- a. claims have been made against Owner on account of Contractor's performance or furnishing of the Work;
- b. Liens have been filed in connection with the Work, except where Contractor has delivered a specific bond satisfactory to Owner to secure the satisfaction and discharge of such Liens;
- c. there are other items entitling Owner to a set-off against the amount recommended; or
- d. Owner has actual knowledge of the occurrence of any of the events enumerated in Paragraphs 14.02.B.5.a through 14.02.B.5.c or Paragraph 15.02.A.

2. If Owner refuses to make payment of the full amount recommended by Engineer, Owner will give Contractor immediate written notice (with a copy to Engineer) stating the reasons for such action and promptly pay Contractor any amount remaining after deduction of the amount so withheld. Owner shall promptly pay Contractor the amount so withheld, or any adjustment thereto agreed to by Owner and Contractor, when Contractor corrects to Owner's satisfaction the reasons for such action.

3. If it is subsequently determined that Owner's refusal of payment was not justified, the amount wrongfully withheld shall be treated as an amount due as determined by Paragraph 14.02.C.1.

14.03 Contractor's Warranty of Title

A. Contractor warrants and guarantees that title to all Work, materials, and equipment covered by any Application for Payment, whether incorporated in the Project or not, will pass to Owner no later than the time of payment free and clear of all Liens.

14.04 Substantial Completion

A. When Contractor considers the entire Work ready for its intended use Contractor shall notify Owner and Engineer in writing that the entire Work is substantially complete (except for items specifically listed by Contractor as incomplete) and request that Engineer issue a certificate of Substantial Completion.

B. Promptly after Contractor's notification, , Owner, Contractor, and Engineer shall make an inspection of the Work to determine the status of completion. If Engineer does not consider the Work substantially complete, Engineer will notify Contractor in writing giving the reasons therefor.

C. If Engineer considers the Work substantially complete, Engineer will deliver to Owner a tentative certificate of Substantial Completion which shall fix the date of Substantial Completion. There shall be attached to the certificate a tentative list of items to be completed or corrected before final payment. Owner shall have seven days after receipt of the tentative certificate during which to make written objection to Engineer as to any provisions of the certificate or attached list. If, after considering such objections, Engineer concludes that the Work is not substantially complete, Engineer will within 14 days after submission of the tentative certificate to Owner notify Contractor in writing, stating the reasons therefor. If, after consideration of Owner's objections, Engineer considers the Work substantially complete, Engineer will within said 14 days execute and deliver to Owner and Contractor a definitive certificate of Substantial Completion (with a revised tentative list of items to be completed or corrected) reflecting such changes from the tentative certificate as Engineer believes justified after consideration of any objections from Owner.

D. At the time of delivery of the tentative certificate of Substantial Completion, Engineer will deliver to Owner and Contractor a written recommendation as to division of responsibilities pending final payment between Owner and Contractor with respect to security, operation, safety, and protection of the Work, maintenance, heat, utilities, insurance, and warranties and guarantees. Unless Owner and Contractor agree otherwise in writing and so inform Engineer in writing prior to Engineer's issuing the definitive certificate of Substantial

Completion, Engineer's aforesaid recommendation will be binding on Owner and Contractor until final payment.

E. Owner shall have the right to exclude Contractor from the Site after the date of Substantial Completion subject to allowing Contractor reasonable access to complete or correct items on the tentative list.

14.05 *Partial Utilization*

A. Prior to Substantial Completion of all the Work, Owner may use or occupy any substantially completed part of the Work which has specifically been identified in the Contract Documents, or which Owner, Engineer, and Contractor agree constitutes a separately functioning and usable part of the Work that can be used by Owner for its intended purpose without significant interference with Contractor's performance of the remainder of the Work, subject to the following conditions.

1. Owner at any time may request Contractor in writing to permit Owner to use or occupy any such part of the Work which Owner believes to be ready for its intended use and substantially complete. If and when Contractor agrees that such part of the Work is substantially complete, Contractor will certify to Owner and Engineer that such part of the Work is substantially complete and request Engineer to issue a certificate of Substantial Completion for that part of the Work.

2. Contractor at any time may notify Owner and Engineer in writing that Contractor considers any such part of the Work ready for its intended use and substantially complete and request Engineer to issue a certificate of Substantial Completion for that part of the Work.

3. Within a reasonable time after either such request, Owner, Contractor, and Engineer shall make an inspection of that part of the Work to determine its status of completion. If Engineer does not consider that part of the Work to be substantially complete, Engineer will notify Owner and Contractor in writing giving the reasons therefor. If Engineer considers that part of the Work to be substantially complete, the provisions of Paragraph 14.04 will apply with respect to certification of Substantial Completion of that part of the Work and the division of responsibility in respect thereof and access thereto.

4. No use or occupancy or separate operation of part of the Work may occur prior to compliance with the requirements of Paragraph 5.10 regarding property insurance.

14.06 *Final Inspection*

A. Upon written notice from Contractor that the entire Work or an agreed portion thereof is complete, Engineer will promptly make a final inspection with Owner and Contractor and will notify Contractor in writing of all particulars in which this inspection reveals

that the Work is incomplete or defective. Contractor shall immediately take such measures as are necessary to complete such Work or remedy such deficiencies.

14.07 *Final Payment*

A. Application for Payment

1. After Contractor has, in the opinion of Engineer, satisfactorily completed all corrections identified during the final inspection and has delivered, in accordance with the Contract Documents, all maintenance and operating instructions, schedules, guarantees, bonds, certificates or other evidence of insurance certificates of inspection, marked-up record documents (as provided in Paragraph 6.12), and other documents, Contractor may make application for final payment following the procedure for progress payments.

2. The final Application for Payment shall be accompanied (except as previously delivered) by:

a. all documentation called for in the Contract Documents, including but not limited to the evidence of insurance required by Paragraph 5.04.B.7;

b. consent of the surety, if any, to final payment;

c. a list of all Claims against Owner that Contractor believes are unsettled; and

d. complete and legally effective releases or waivers (satisfactory to Owner) of all Lien rights arising out of or Liens filed in connection with the Work.

3. In lieu of the releases or waivers of Liens specified in Paragraph 14.07.A.2 and as approved by Owner, Contractor may furnish receipts or releases in full and an affidavit of Contractor that: (i) the releases and receipts include all labor, services, material, and equipment for which a Lien could be filed; and (ii) all payrolls, material and equipment bills, and other indebtedness connected with the Work for which Owner or Owner's property might in any way be responsible have been paid or otherwise satisfied. If any Subcontractor or Supplier fails to furnish such a release or receipt in full, Contractor may furnish a bond or other collateral satisfactory to Owner to indemnify Owner against any Lien.

B. *Engineer's Review of Application and Acceptance*

1. If, on the basis of Engineer's observation of the Work during construction and final inspection, and Engineer's review of the final Application for Payment and accompanying documentation as required by the Contract Documents, Engineer is satisfied that the Work has been completed and Contractor's other obligations

under the Contract Documents have been fulfilled, Engineer will, within ten days after receipt of the final Application for Payment, indicate in writing Engineer's recommendation of payment and present the Application for Payment to Owner for payment. At the same time Engineer will also give written notice to Owner and Contractor that the Work is acceptable subject to the provisions of Paragraph 14.09. Otherwise, Engineer will return the Application for Payment to Contractor, indicating in writing the reasons for refusing to recommend final payment, in which case Contractor shall make the necessary corrections and resubmit the Application for Payment.

C. Payment Becomes Due

1. Thirty days after the presentation to Owner of the Application for Payment and accompanying documentation, the amount recommended by Engineer, less any sum Owner is entitled to set off against Engineer's recommendation, including but not limited to liquidated damages, will become due and , will be paid by Owner to Contractor.

14.08 *Final Completion Delayed*

A. If, through no fault of Contractor, final completion of the Work is significantly delayed, and if Engineer so confirms, Owner shall, upon receipt of Contractor's final Application for Payment (for Work fully completed and accepted) and recommendation of Engineer, and without terminating the Contract, make payment of the balance due for that portion of the Work fully completed and accepted. If the remaining balance to be held by Owner for Work not fully completed or corrected is less than the retainage stipulated in the Agreement, and if bonds have been furnished as required in Paragraph 5.01, the written consent of the surety to the payment of the balance due for that portion of the Work fully completed and accepted shall be submitted by Contractor to Engineer with the Application for such payment. Such payment shall be made under the terms and conditions governing final payment, except that it shall not constitute a waiver of Claims.

14.09 *Waiver of Claims*

A. The making and acceptance of final payment will constitute:

1. a waiver of all Claims by Owner against Contractor, except Claims arising from unsettled Liens, from defective Work appearing after final inspection pursuant to Paragraph 14.06, from failure to comply with the Contract Documents or the terms of any special guarantees specified therein, or from Contractor's continuing obligations under the Contract Documents; and

2. a waiver of all Claims by Contractor against Owner other than those previously made in accordance

with the requirements herein and expressly acknowledged by Owner in writing as still unsettled.

ARTICLE 15 - SUSPENSION OF WORK AND TERMINATION

15.01 *Owner May Suspend Work*

A. At any time and without cause, Owner may suspend the Work or any portion thereof for a period of not more than 90 consecutive days by notice in writing to Contractor and Engineer which will fix the date on which Work will be resumed. Contractor shall resume the Work on the date so fixed. Contractor shall be granted an adjustment in the Contract Price or an extension of the Contract Times, or both, directly attributable to any such suspension if Contractor makes a Claim therefor as provided in Paragraph 10.05.

15.02 *Owner May Terminate for Cause*

A. The occurrence of any one or more of the following events will justify termination for cause:

1. Contractor's persistent failure to perform the Work in accordance with the Contract Documents (including, but not limited to, failure to supply sufficient skilled workers or suitable materials or equipment or failure to adhere to the Progress Schedule established under Paragraph 2.07 as adjusted from time to time pursuant to Paragraph 6.04);

2. Contractor's disregard of Laws or Regulations of any public body having jurisdiction;

3. Contractor's disregard of the authority of Engineer; or

4. Contractor's violation in any substantial way of any provisions of the Contract Documents.

B. If one or more of the events identified in Paragraph 15.02.A occur, Owner may, after giving Contractor (and surety) seven days written notice of its intent to terminate the services of Contractor:

1. exclude Contractor from the Site, and take possession of the Work and of all Contractor's tools, appliances, construction equipment, and machinery at the Site, and use the same to the full extent they could be used by Contractor (without liability to Contractor for trespass or conversion),

2. incorporate in the Work all materials and equipment stored at the Site or for which Owner has paid Contractor but which are stored elsewhere, and

3. complete the Work as Owner may deem expedient.

C. If Owner proceeds as provided in Paragraph 15.02.B, Contractor shall not be entitled to receive any further payment until the Work is completed. If the unpaid balance of the Contract Price exceeds all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) sustained by Owner arising out of or relating to completing the Work, such excess will be paid to Contractor. If such claims, costs, losses, and damages exceed such unpaid balance, Contractor shall pay the difference to Owner. Such claims, costs, losses, and damages incurred by Owner will be reviewed by Engineer as to their reasonableness and, when so approved by Engineer, incorporated in a Change Order. When exercising any rights or remedies under this Paragraph Owner shall not be required to obtain the lowest price for the Work performed.

D. Notwithstanding Paragraphs 15.02.B and 15.02.C, Contractor's services will not be terminated if Contractor begins within seven days of receipt of notice of intent to terminate to correct its failure to perform and proceeds diligently to cure such failure within no more than 30 days of receipt of said notice.

E. Where Contractor's services have been so terminated by Owner, the termination will not affect any rights or remedies of Owner against Contractor then existing or which may thereafter accrue. Any retention or payment of moneys due Contractor by Owner will not release Contractor from liability.

F. If and to the extent that Contractor has provided a performance bond under the provisions of Paragraph 5.01.A, the termination procedures of that bond shall supersede the provisions of Paragraphs 15.02.B, and 15.02.C.

15.03 *Owner May Terminate For Convenience*

A. Upon seven days written notice to Contractor and Engineer, Owner may, without cause and without prejudice to any other right or remedy of Owner, terminate the Contract. In such case, Contractor shall be paid for (without duplication of any items):

1. completed and acceptable Work executed in accordance with the Contract Documents prior to the effective date of termination, including fair and reasonable sums for overhead and profit on such Work;

2. expenses sustained prior to the effective date of termination in performing services and furnishing labor, materials, or equipment as required by the Contract Documents in connection with uncompleted Work, plus fair and reasonable sums for overhead and profit on such expenses;

3. all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) incurred in settlement of terminated contracts with Subcontractors, Suppliers, and others; and

4. reasonable expenses directly attributable to termination.

B. Contractor shall not be paid on account of loss of anticipated profits or revenue or other economic loss arising out of or resulting from such termination.

15.04 *Contractor May Stop Work or Terminate*

A. If, through no act or fault of Contractor, (i) the Work is suspended for more than 90 consecutive days by Owner or under an order of court or other public authority, or (ii) Engineer fails to act on any Application for Payment within 30 days after it is submitted, or (iii) Owner fails for 30 days to pay Contractor any sum finally determined to be due, then Contractor may, upon seven days written notice to Owner and Engineer, and provided Owner or Engineer do not remedy such suspension or failure within that time, terminate the Contract and recover from Owner payment on the same terms as provided in Paragraph 15.03.

B. In lieu of terminating the Contract and without prejudice to any other right or remedy, if Engineer has failed to act on an Application for Payment within 30 days after it is submitted, or Owner has failed for 30 days to pay Contractor any sum finally determined to be due, Contractor may, seven days after written notice to Owner and Engineer, stop the Work until payment is made of all such amounts due Contractor, including interest thereon. The provisions of this Paragraph 15.04 are not intended to preclude Contractor from making a Claim under Paragraph 10.05 for an adjustment in Contract Price or Contract Times or otherwise for expenses or damage directly attributable to Contractor's stopping the Work as permitted by this Paragraph.

ARTICLE 16 - DISPUTE RESOLUTION

16.01 *Methods and Procedures*

A. Either Owner or Contractor may request mediation of any Claim submitted to Engineer for a decision under Paragraph 10.05 before such decision becomes final and binding. The mediation will be

governed by the Construction Industry Mediation Rules of the American Arbitration Association in effect as of the Effective Date of the Agreement. The request for mediation shall be submitted in writing to the American Arbitration Association and the other party to the Contract. Timely submission of the request shall stay the effect of Paragraph 10.05.E.

B. Owner and Contractor shall participate in the mediation process in good faith. The process shall be concluded within 60 days of filing of the request. The date of termination of the mediation shall be determined by application of the mediation rules referenced above.

C. If the Claim is not resolved by mediation, Engineer's action under Paragraph 10.05.C or a denial pursuant to Paragraphs 10.05.C.3 or 10.05.D shall become final and binding 30 days after termination of the mediation unless, within that time period, Owner or Contractor:

1. elects in writing to invoke any dispute resolution process provided for in the Supplementary Conditions, or

2. agrees with the other party to submit the Claim to another dispute resolution process, or

3. gives written notice to the other party of their intent to submit the Claim to a court of competent jurisdiction.

ARTICLE 17 - MISCELLANEOUS

17.01 *Giving Notice*

A. Whenever any provision of the Contract Documents requires the giving of written notice, it will be deemed to have been validly given if:

1. delivered in person to the individual or to a member of the firm or to an officer of the corporation for whom it is intended, or

2. delivered at or sent by registered or certified mail, postage prepaid, to the last business address known to the giver of the notice.

17.02 *Computation of Times*

A. When any period of time is referred to in the Contract Documents by days, it will be computed to exclude the first and include the last day of such period. If the last day of any such period falls on a Saturday or Sunday or on a day made a legal holiday by the law of the applicable jurisdiction, such day will be omitted from the computation.

17.03 *Cumulative Remedies*

A. The duties and obligations imposed by these General Conditions and the rights and remedies available hereunder to the parties hereto are in addition to, and are not to be construed in any way as a limitation of, any rights and remedies available to any or all of them which are otherwise imposed or available by Laws or Regulations, by special warranty or guarantee, or by other provisions of the Contract Documents. The provisions of this Paragraph will be as effective as if repeated specifically in the Contract Documents in connection with each particular duty, obligation, right, and remedy to which they apply.

17.04 *Survival of Obligations*

A. All representations, indemnifications, warranties, and guarantees made in, required by, or given in accordance with the Contract Documents, as well as all continuing obligations indicated in the Contract Documents, will survive final payment, completion, and acceptance of the Work or termination or completion of the Contract or termination of the services of Contractor.

17.05 *Controlling Law*

A. This Contract is to be governed by the law of the state in which the Project is located.

17.06 *Headings*

A. Article and paragraph headings are inserted for convenience only and do not constitute parts of these General Conditions.

SUPPLEMENTARY CONDITIONS

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SUPPLEMENTARY CONDITIONS

1. Definitions

- A. The definition of "Technical Specifications" shall be the same as the definition for Specifications stated in Paragraph 1.01 under item number 43 of the General Conditions.
- B. Delete Paragraph 1.01.A.12 of the General Conditions in its' entirety.
- C. In Paragraph 1.01A.52 delete the following words, "or responding to differing or unseen subsurface or physical conditions under which the work is to be performed or to emergencies."

2. Commencement of Contract Time: Notice to Proceed

The commencement of Contract Time, as stated in Item 2.03 of the General Conditions is changed to read The Contract Time will commence to run within the sixtieth day after the Effective Date of the Agreement, or, if a Notice to Proceed is given, on the day indicated in the Notice to Proceed; but in no event shall the Contract Time commence to run later than the sixtieth day after the Effective Date of the Agreement.

Notice to Proceed may be given at any time within sixty days after the Effective Date of the Agreement. Refer to Item 21 of the Instructions to Bidders regarding execution of the Contract.

3. Before Starting Construction

In addition to the requirements of Paragraph 2.05 of the General Conditions, "**CONTRACTOR** shall deliver to the **OWNER**, with his signed Contract, all bonds and insurance which he is required to purchase and maintain in accordance with Article 5 of the General Conditions. A copy shall also be submitted to the **ENGINEER**. The **OWNER** shall deliver to the **CONTRACTOR** a copy of all policies of insurance which the **OWNER** is required to purchase and maintain in accordance with Article 5 of the General Conditions."

4. Preconstruction Conference

The time period for holding the preconstruction conference as stated in Paragraph 2.06 of the General Conditions shall be within 30 days after the Effective date of the Agreement, but before the **CONTRACTOR** starts the Work at the site.

5. Subsurface and Physical Conditions

Paragraphs 4.02 and 4.03 shall be deleted in its' entirety and replaced with the following:

DIFFERING SITE CONDITIONS PROVISION:

Execution of this Contract (Agreement) by the Contractor is a representation that the Contractor has visited the site, that general and local conditions are suitable for the work to be performed and that the Contractor accepts all conditions at the Project site. The Contractor assumes all risks with respect to the requirements of the Contract Documents, including without limitation the characteristics (natural and manmade) of the site, site accessibility, labor rates and availability, weather conditions, and any other matter that could affect the performance and cost of the work.

6. Insurance Requirements

- A. Paragraphs 5.05 and 5.06 shall be deleted in their entirety.
- B. Paragraphs 5.07.B, 5.07.B.1 and 5.07.B.2 shall be deleted in their entirety.
- C. In addition to the requirements of Article 5 of the General Conditions, insurance coverage specified herein constitutes the minimum requirements and said requirements shall in no way lessen or limit the liability of the **CONTRACTOR** under the terms of the Contract. The **CONTRACTOR** shall procure and maintain at his own expense any additional kinds and amounts of insurance that, in his own judgment, may be necessary for his proper protection in the prosecution of the Work.
 - 1. The **CONTRACTOR** shall carry insurance as prescribed herein and all policies shall be with companies satisfactory to the **OWNER**. If a part of this Contract is sublet, the **CONTRACTOR** shall require each Subcontractor to carry insurance of the same kinds and in like amounts as carried by the **CONTRACTOR**, including all additional insureds and waivers of subrogation.
 - 2. Certificates of insurance shall state that 30 days written notice will be given to the **OWNER** before the policy is canceled or changed. No **CONTRACTOR** or Subcontractor will be allowed to start any construction work on this Contract until certificates of all insurance required herein and all coverage requirements specified in contract documents are filed with and approved by the **OWNER**. The certificates shall show the type, amount, class of operations covered, effective dates and the dates of expiration of policies.
 - 3. The **CONTRACTOR** shall secure and maintain in effect for the period of the **CONTRACT** and pay all premiums for the following kinds and amounts of insurance:
 - a. Worker's Compensation and Employer's Liability Insurance: This insurance shall protect the **CONTRACTOR** against all claims under applicable State Worker's Compensation Laws. The **CONTRACTOR** shall also be protected and shall cause each Subcontractor to be protected against claims for injury, disease, or death of employees, which for any reason, may not fall within the provisions of a Worker's Compensation Law. The liability limits shall not be less than the required statutory limits for Worker's Compensation and Employer's Liability limits in the amount of ONE MILLION DOLLARS (\$1,000,000.00). **CONTRACTOR** and subcontractors shall supply **OWNER** endorsements from their carriers evidencing waiver of subrogation in favor of the **OWNER**.
 - b. **CONTRACTOR'S** and Subcontractor's Comprehensive General Liability Insurance, including bodily injury, property damage, contractual and other

standard coverage contained in Comprehensive General Liability Insurance, in an amount of not less than ONE MILLION DOLLARS (\$1,000,000) per occurrence and aggregate. **OWNER** shall be provided an endorsement naming the **OWNER** as an insured from the insurer for the work contracted. The Comprehensive General Liability policies carried by both the **CONTRACTOR** and the Subcontractors shall contain an endorsement to include the coverage of the following hazards:

- i. Explosion, collapse, and underground property damage to include any damage or destruction of property below the surface of the ground, such as wires, conduits, pipes, mains, sewers, etc., caused by the **CONTRACTOR'S** operations.
 - ii. The collapse of and structural injury to any building, structure or property on or adjacent to the **OWNER'S** premises or right-of-way caused by the **CONTRACTOR'S** operations in the removal of other buildings, structures, or supports, or by excavation below the surface of the ground.
 - iii. Contractual Liability Coverage for the Hold Harmless segments of the Contract Documents.
- c. **CONTRACTOR'S** Contingent or Protective Liability and Property Damage: In case part of this Contract is sublet, the **CONTRACTOR** shall secure contingent or protective liability and property damage insurance to protect the **CONTRACTOR** from any and all claims arising from the operation of Subcontractors in the execution of Work included in the Contract. In no case shall the amount of such protection be less than the limits of \$500,000/\$1,000,000 for Public Liability Insurance and \$500,000/\$1,000,000 for Property Damage Insurance. The coverage in each case shall be acceptable to the **OWNER**.
- d. Auto Liability: The **CONTRACTOR** shall maintain Auto Liability Insurance in the amount of not less than ONE MILLION DOLLARS (\$1,000,000) Combined Single Limit to protect him from any and all claims arising from the use of the following:
- i. **CONTRACTOR'S** own automobiles and trucks.
 - ii. Hired and non-owned automobiles and trucks.
 - iii. Automobiles and trucks owned by Subcontractors.
- The aforementioned is to cover use of automobiles and trucks on and off the site of the Project. The **OWNER** shall be provided an endorsement from the insurer naming the **OWNER** as an insured for the work contracted.
- e. **OWNER'S** Protective Liability Policy: The **CONTRACTOR** shall maintain **OWNER'S** Protective Liability Insurance with the **OWNER** as the named insured, and the **ENGINEER**, and their servants, agents and employees as additional insureds, in an amount not less than ONE MILLION DOLLARS (\$1,000,000).
- f. Umbrella Liability: The **CONTRACTOR** shall provide **OWNER** a certificate of insurance evidencing Umbrella Liability Insurance in the amount of not less than FIVE MILLION DOLLARS (\$5,000,000).
- g. Builder's Risk and Boiler and Machinery Insurance: The **CONTRACTOR** shall purchase and maintain Builder's Risk and Boiler and Machinery Insurance in the amount of the total value of the materials necessary for the

project. A certificate evidencing such coverage shall be on file with the **OWNER**.

h. Property Insurance: No property insurance is required for this project.

7. Contractor's Responsibilities

Delete Paragraph 6.02.B in its entirety.

8. Record Documents

In addition to the requirements of Paragraph 6.12 of the General Conditions, **CONTRACTOR** shall provide accurate 'mark-ups' acceptable to the **ENGINEER** on or before the date of Substantial Completion of the Project for use by the **ENGINEER** in the preparation of 'record' drawings. Final payment will not be made to the **CONTRACTOR** prior to the **ENGINEER** receiving these mark-ups from the **CONTRACTOR**.

9. Limitations on ENGINEER'S Responsibilities

In addition to the requirements of Paragraph 9.09.B, when it comes to his attention, the **ENGINEER** will immediately notify the **OWNER** in the event that the **CONTRACTOR** is not complying with the Contract Documents or is conducting the Work in such a manner that could be considered grounds for termination of the Contract. The **CONTRACTOR** shall retain responsibility for performing all Work in compliance with the Contract Documents.

The following language shall be added to Paragraph 9.09.B:

“Consistent with the express provisions of this Section 00700, Article 6.13, Article 6.17.D.2, Article 9.02.B, Article 9.09, this Article 9.09.B, and Article 14.02.B.4.b, any reference to “safety” elsewhere in this contract, including but not limited to those found in Section 00700, Articles 4.02.B.1, 4.04.A.2.d, 4.04.B.1, 4.06.B.1, 6.02.B, 6.14, 6.15, 6.16, 6.17.C.1.c, and 13.02.A, does not impose upon the Engineer any duty, obligation or other contractual undertaking to administer the “safety” aspects of Contractor’s performance, or any other matter relating to the Contractor’s means, methods, techniques, sequences or procedures. Contractor’s contractual safety obligations and means and methods during construction are the sole responsibility of the Contractor and are not being administered, overseen or reviewed in any way by the Engineer in performing its contractual obligations”

10. Change of the Contract Time

In addition to the requirements of Paragraph 12.03 of the General Conditions, rainstorms which are encountered in the project area on a regular and seasonal basis do not constitute an abnormal weather condition.

11. Payments to **CONTRACTOR**

Paragraph 14.02.A, Application for Payments, is deleted in its' entirety and the following substituted therefore:

-
- A. Monthly Estimates and Partial Payments: The **CONTRACTOR'S** partial payment period shall end on the last day of each month. The **CONTRACTOR** shall submit acceptable Application for Payment to the **ENGINEER** by the date indicated on the payment schedule as supplied to **CONTRACTOR** by **ENGINEER** provided that the amount due on completed work is at least \$500.00. The partial payment request shall be filled out and signed by the **CONTRACTOR** covering the work completed as of the date of the request and accompanied by such supporting documentation as is required by the Contract Documents and also as the **ENGINEER** may reasonably require. At the discretion of the **OWNER**, the **ENGINEER** may be authorized to include in any monthly estimate advances covering approximately 95 percent of the value of unused materials delivered and stored on the site of the work. If payment is requested on the basis of materials and equipment not incorporated in the Work but delivered and suitably stored at the site, the Application for Payment shall also be accompanied by such data, satisfactory to **OWNER**, as will establish **OWNER'S** title to the material and equipment and protect **OWNER'S** title to the material and equipment and protect **OWNER'S** interest therein, including applicable insurance. Each subsequent Application for Payment shall include an affidavit of **CONTRACTOR** stating that all previous progress payments received on account of the Work have been applied to discharge in full all of **CONTRACTOR'S** obligations reflected in prior Applications for Payment.
- B. After each monthly estimate has been approved, the **OWNER** shall pay to the **CONTRACTOR** 95 percent of the amount of said estimate. From the total value of each estimate there will be deducted an amount equivalent to 5 percent of the whole as a retainage to be held by the **OWNER**. The monthly estimates will be approximate only and subject to correction in any subsequent estimate rendered following discovery of the error. At the discretion of the **OWNER**, the **ENGINEER** may be authorized to include any monthly advances covering approximately 95 percent of the value of unused materials delivered and stored on the site of the work.
- C. Subsequent to discovery of any defective or questionable work, an amount equal to the estimated value of such work will be deducted from the next current estimate. The sum will not be included in a subsequent estimate until the defects have been remedied to the **ENGINEER'S** satisfaction.
- D. The **OWNER** reserves the right to withhold payment of any monthly estimate that becomes due if, in the opinion of the **OWNER'S** Attorney, such action is warranted because of any breach of the Contract Provisions or malfeasance on the part of the **CONTRACTOR** or because the progress or the quality of the work is unsatisfactory and does not comply with the Plans and Specifications.

Paragraph 14.02.C of the General Conditions is modified to read "60 days after presentation of the Application for Payment to **OWNER** with **ENGINEER'S** recommendation, the amount recommended will (subject to the provisions of Paragraph 14.02.D) become due, and when due will be paid by **OWNER** to **CONTRACTOR**."

Paragraph 14.07.C of the General Conditions is modified to read, "If the Application and accompanying documentation are appropriate as to form and substance, **OWNER** shall, within 60 days after receipt thereof, pay **CONTRACTOR** the amount recommended by **ENGINEER**."

Delete Paragraph 14.09.A.2 in its entirety.

12. List of Contract Drawings: Not Used.

13. Liquidated and Special Damages

The **CONTRACTOR** will be subject to liquidated damages and actual damages in the amount of the actual costs incurred by the Owner after the time stipulated for Final Completion of the work.

The **CONTRACTOR** will be subject to liquidated damages in the amount of **\$750** for each consecutive calendar day after the time stipulated for Final Completion of the work. The actual costs includes, but is not limited to construction related costs resulting from the Contractor's failure to complete the work on schedule.

When the Contractor fails to complete the work within the time stipulated, a deduction will be made of \$750 a day from the money due the Contractor not as a penalty but as liquidated damages. The Contractor and the Contractor's Sureties shall be liable for all liquidated damages in excess of money due the Contractor

The liquidated damages provided for herein were not calculated in contemplation or anticipation that the **CONTRACTOR** would default or otherwise abandon the project. In the event the **CONTRACTOR** does default or otherwise abandon the project, the **OWNER** reserves the right to collect from the **CONTRACTOR** or its surety, in addition to the liquidated damages, the actual damages including, but not limited to, additional engineering costs, incurred by the **OWNER** as a result of the default or abandonment.

14. Suspension of Work and Termination

In Paragraph 15.04.A delete the following words: "or Engineer fails to act on any Application for Payment within thirty days, after it is submitted" and add the words "if the". In Paragraph 15.04.B delete the following words: "if Engineer has failed to act on an Application for Payment within thirty days after it is submitted" and add the words "if the".

16. Methods and Procedures

Delete sentence 16.01.C.2 in its entirety

**** END OF SECTION ****

SECTION 01010
SUMMARY OF WORK

PART 1 GENERAL

1.01 Location of Work

All of the work of this Contract is located in public right-of-way or on easements and property owned or obtained by the Owner.

1.02 Work to be Done

- A. The CONTRACTOR shall furnish all labor, materials, equipment, tools, services and incidentals to complete all work required by these Specifications and as shown on the Drawings.
- B. The CONTRACTOR shall perform the work complete, in place, and ready for continuous service, and shall include repairs, testing, permits, cleanup, replacements and restoration required as a result of damages caused during this construction.
- C. All materials, equipment, skills, tools and labor which are reasonably and properly inferable and necessary for the proper completion of the work in a substantial manner and in compliance with the requirements stated or implied by these Specifications or Drawings shall be furnished and installed by the CONTRACTOR without additional compensation, whether specifically indicated in the Contract Documents or not.
- D. The CONTRACTOR shall comply with all county, state, federal, and other codes which are applicable to the proposed construction work.

1.03 General Description of Work to be Performed

- A. The Work included in the Contract shall be as described in the Contract Documents.
- B. All work shall be done as described in the Specifications and as shown on the Drawings, complete, tested and ready for operation.

1.04 Work Sequence

- A. All work to be done under the Contract shall be done with minimum inconvenience to the OWNER. The CONTRACTOR shall coordinate his work with private property owners such that existing drainage, water service, sewer service and garbage pickup and other public services are maintained at all times.
- B. Construct Work in stages to accommodate the OWNER'S use of the premises during the construction period; coordinate the construction schedule and operations with the ENGINEER.
- C. Construct the Work in stages to provide for public convenience. Do not close off public

access until completion of one stage of construction will provide alternative usage.

1.05 Construction Areas

- A. CONTRACTOR shall limit his use of the construction areas for Work and for storage, to allow for:
 - 1. Work by other contractors.
 - 2. OWNER use.
 - 3. Public use.
- B. Coordinate use of work site under direction of ENGINEER.
- C. Assume full responsibility for the protection, security and safekeeping of products under this Contract stored on the site.
- D. Move any stored products, under CONTRACTOR'S control which interfere with operations of the OWNER or other contractors.
- E. Obtain and pay for the use of additional storage or work areas needed for operations.

1.06 Owner Occupancy

- A. OWNER will have full access to and use of all existing sewer facilities during the entire period of construction for the conduct of his normal operations. Cooperate with ENGINEER in all construction operations to minimize conflict and to facilitate OWNER usage.
- B. CONTRACTOR shall at all times conduct his operations as to insure the least inconvenience to the general public.

1.07 Partial Owner Occupancy

The CONTRACTOR shall schedule his operations for completion of portions of the Work, as designated, for the OWNER'S occupancy prior to Substantial Completion of the entire Work.

1.08 Plans and Specifications

- A. Specifications: The Technical Specifications consist of three parts: General, Products, and Execution. The General section contains general requirements which govern the work. The Products and Execution sections modify and supplement these by detailed requirements of the work and shall always govern whenever there appears to be a conflict.
- B. Intent:
 - 1. All work called for in the Specifications applicable to the Contract but not shown on the Plans in their present form or vice versa shall be of like effect as if shown or mentioned in both. Work not specified in either the Plans or in the Specifications but involved in carrying out their intent or in the complete and proper execution of the work is required and shall be performed by the CONTRACTOR as though it were specifically delineated or described at the CONTRACTOR'S expense.
 - 2. The apparent silence of the Specifications as to any detail, or the apparent omission

from them of a detailed description concerning any work to be done and materials to be furnished, shall be regarded as meaning that only the best general practice is to prevail and that only material and workmanship of the best quality is to be used, and interpretation of these Specifications shall be made upon that basis.

- C. Conflict between Drawings and Specifications. Where an obvious conflict exists between the Plans and Specifications, the ENGINEER shall decide which governs and the CONTRACTOR shall comply with the decision. Such decision shall not be grounds for additional payment to the CONTRACTOR, i.e., the CONTRACTOR shall include the price of the most expensive alternative in his bid.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

**** END OF SECTION ****

SECTION 01030

SPECIAL PROJECT PROCEDURES

PART 1 GENERAL

1.01 WORKMANSHIP, MATERIAL AND EQUIPMENT

- A. When a particular product is specified or called for, it is intended and shall be understood that the Contractor include those products in his bid. Should the Contractor desire to substitute products which he purports to be equal to those specified, the Contractor shall furnish information as described in Section 00700, General Conditions, The alternative products(s) submitted by the Contractor shall meet the requirements of the specifications and shall, in all respects, be equal to the products specified by name herein.
- B. All apparatus, mechanism, equipment, machinery, and manufactured articles for incorporation into the Work shall be new and unused and the standard products of recognized reputable manufacturers.

1.02 PROVISIONS FOR CONTROL OF EROSION AND POLLUTANTS

Sufficient precautions shall be taken during construction to minimize the runoff of polluting substances such as silt, clay, fuels, oils, bitumens, calcium chloride, or other materials harmful to humans, fish, or other life, into the ground and surface waters of the state. Contractor will give all notices and comply with all laws, notices, ordinances, rules and regulations applicable to the work, without exception.

1.03 ON-SITE STORAGE

The Contractor's attention is invited to special storage requirements and possible charges for noncompliance of on-site storage requirements for materials and equipment as specified in Section 01600.

1.04 INCLEMENT WEATHER

- A. In the event of inclement weather, or whenever Engineer shall direct, Contractor and Subcontractors will protect carefully the work and materials against damage or injury from the weathers, including sudden rises in flows due to storms outside the immediate construction zone. Damaged Work and materials shall be removed and replaced. If, in the opinion of Engineer, any portion of Work or materials shall have been damaged or injured by reason of failure on the part of the Contractor or Subcontractors to so protect the Work, no additional time for removal and replacement will be given by the Owner.

1.05 WARRANTIES

- A. All work supplied under the Contract shall be warranted for a period of one (1) year or such longer period of time as may be prescribed by any special guarantee required by Change Orders or issued by Subcontractor, suppliers, or manufacturers, from the date of acceptance for operations (beneficial use) by the Owner as specified in Section 01740, Warranties and Bonds.
- B. The work shall be warranted to be free from defects in workmanship, design and materials. If any part of the work should fail during warranty period, it shall be replaced or restored to service at no expense to the Owner.

1.06 CONSTRUCTION CONDITIONS

The Contractor shall strictly adhere to the specific requirements of the governmental units(s) or agency(ices) having jurisdiction over the work. Wherever there is a difference in the requirements of a jurisdictional body and these Specifications, the more stringent shall apply.

1.07 PUBLIC NUISANCE

The Contractor shall not create a public nuisance, including, but not limited to, encroachment on adjacent lands, flooding of adjacent lands, or excessive noise.

1.08 SUSPENSION OF WORK DUE TO WEATHER

During inclement weather, all work which might be damaged or rendered inferior by such weather conditions shall be suspended. The orders and decisions of the Engineer as to suspensions shall be final and binding. The authority of the Engineer to issue such an order shall not be interpreted as a requirement to do so. During suspension of the work from any cause, the work shall be suitably covered and protected so as to preserve it from injury by the weather. Notwithstanding this provision, it is understood and agreed that the General Conditions shall control.

1.09 RELOCATIONS

The Contractor shall be responsible for the relocation of structures, including, but not limited to, light poles, signs, sign poles, fences, mailboxes, piping, conduits and drains that interfere with the positioning of the work as set out on the Drawings. The cost of all such relocations shall be included in the bid.

1.10 SALVAGE

Any existing equipment or materials, including, but not limited to, valves, pipes, fittings, couplings, etc., which are removed or replaced as a result of construction under this project may be designated as salvage by the Engineer and, if so, shall be removed and delivered to the Owner at a location directed by the Engineer.

1.11 PERMITS

Upon notice of award, the Contractor shall immediately apply for all applicable permits not previously obtained by the Owner to do the work from the appropriate governmental agency or agencies. No work shall commence until all applicable permits have been obtained and copies delivered to the Engineer. The costs for obtaining all permits shall be borne by the Contractor.

1.12 HAZARDOUS LOCATION

- A. The existing wet wells, manholes, sewers, force mains, pipes, and other related areas are hazardous locations in that explosive concentrations of sewage gas may be present. The Contractor is cautioned that the above areas, especially the wet well, may be deficient in oxygen. Checks shall be made by the Contractor whenever personnel are working in these areas to insure that adequate ventilation has been provided.
- B. In his operations in hazardous locations, the Contractor shall use spark-proof tools and explosion-proof temporary lighting and shall not use electric power tools, open flame devices, electric welding or any device or methods which might conceivably cause ignition or explosion.
- C. If a working is atmosphere is unsafe, the Contractor shall furnish, install, operate, and later remove such temporary auxiliary ventilating facilities as are necessary to provide a safe atmosphere.
- D. The Contractor shall also instruct and caution his employees and the employees of his subcontractors to avoid smoking while in the hazardous areas. Suitable prominent "No Smoking" signs shall be placed at locations where sewage gas could be present.

1.13 NOTIFICATION OF WORK ON EXISTING FACILITIES

Before commencing work on any of the existing structures or equipment, the Contractor shall notify the Engineer, in writing, at least ten (10) calendar days in advance of the date he proposes to commence such work.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

*** * END OF SECTION * ***

SECTION 01041

PROJECT COORDINATION

PART 1 GENERAL

1.01 Work Progress

The CONTRACTOR shall furnish personnel and equipment which will be efficient, appropriate, and large enough to secure a satisfactory quality of work and a rate of progress which will insure the completion of the work within the time stipulated in the contract. If at any time such personnel appear to the ENGINEER to be inefficient, inappropriate, or insufficient for performing the quality of work required or for producing the rate of progress aforesaid, he may order the CONTRACTOR to increase the efficiency, change the character or increase the personnel and equipment, and the CONTRACTOR shall conform to such order at his own expense. Failure of the ENGINEER to give such order shall in no way relieve the CONTRACTOR of his obligations to perform the work at the specified quality and rate of progress.

1.02 Private Land

The CONTRACTOR shall not enter or occupy private land outside of the OWNER'S land, right-of-ways, or servitudes except by written permission of both the OWNER and the Owner of the private land. Such permission shall be obtained by and at the expense of the CONTRACTOR and at no additional cost to the OWNER.

1.03 Work Locations

Work shall be located substantially as indicated on the Drawings, but the Engineer reserves the right to make such modifications in locations as may be found desirable to avoid interference with existing structures or for other reasons.

1.04 Open Excavations

All open excavations shall be adequately safeguarded by providing temporary barricades, caution signs, lights and other means to prevent accidents to persons and damage to property. The CONTRACTOR shall, at his own expense, provide suitable and safe bridges and other crossings for accommodating travel by the public, OWNER'S and ENGINEER'S personnel, and workmen.

1.05 Test Pits

Test pits for the purpose of locating underground utilities or structures which may interfere with installation of the Work shall be excavated in advance of the Work and backfilled by the CONTRACTOR. Test pits shall be backfilled immediately after their purpose has been satisfied and maintained in a manner satisfactory to the ENGINEER. The costs for such test pits shall be included in the cost of the work for which the test pits benefit.

1.06 Water for Construction Purposes

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- A. In locations where public water supply is available, the CONTRACTOR shall purchase water for all construction purposes.
 - B. The CONTRACTOR shall make his own arrangements and pay all costs for connections to public water systems and for water used. Existing OWNER supplies or connections shall not be used without prior approval by OWNER.

1.07 Maintenance of Flow

The CONTRACTOR shall maintain the flow of sewers, drains, and water courses interrupted during the progress of the Work, including complete pumped bypass systems where necessary. The CONTRACTOR shall immediately remove all offensive matter. The entire procedure of maintaining existing flow shall be fully discussed with the ENGINEER well in advance of the interruption of any flow. All temporary works installed for flow maintenance shall be removed when the permanent work is finished and the areas cleaned and restored to good condition.

1.08 Protection of Construction and Equipment

- A. All newly constructed work shall be carefully protected from injury in any way. No wheeling or walking or placing of heavy loads on it shall be allowed. All portions of the work injured shall be reconstructed by the CONTRACTOR at his own expense.
- B. All structures shall be protected in a suitable manner. Should any parts of the structures become heaved, cracked or otherwise damaged, all such damaged portions of the work shall be completely repaired and made good by the CONTRACTOR at his own expense and to the satisfaction of the ENGINEER. If, in the final inspection of the work, any defects, faults or omissions are found, the CONTRACTOR shall cause the same to be repaired or removed and replaced by proper materials and workmanship without extra compensation for the materials and labor required. Further, the CONTRACTOR shall be fully responsible for the satisfactory maintenance and repair of the construction and other work undertaken herein for at least the guarantee period described in the contract.
- C. The CONTRACTOR shall take all necessary precautions to prevent damage to any structure due to water pressure (groundwater or surface water) during and after construction and until such structure is accepted and taken over by the OWNER.
- D. The CONTRACTOR is responsible for security of the site. Security of all equipment, material, tools, machinery, supplies, structures, buildings, vehicles and offices is the responsibility of the CONTRACTOR. Measures to affect job site security and limit unauthorized access, including temporary fencing, security guards, and other measures are the responsibility of the CONTRACTOR at his expense.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

**** END OF SECTION ****

SECTION 01041.1

UTILITIES COORDINATION

PART 1 GENERAL

1.01 UTILITIES

Utilities for the purpose of these specifications shall be considered as including, but not limited to: pipelines, conduits, cables, transmission lines and appurtenances of Public Utilities and those of Special Utility Districts, Cities or Towns, businesses or individuals solely for their own use or for use of their tenants; and storm drains, sanitary sewers, street lighting, traffic signal and fire alarm systems.

1.02 UNDERGROUND INSTALLATIONS

Existing underground pipelines and utilities are indicated on the Drawings only to the extent such information was made available to or discovered by Engineer in preparing drawings. There is no guarantee as to the accuracy or completeness of such information, and all responsibility for the accuracy and completeness thereof is expressly disclaimed by the Owner and the Engineer.

1.03 UTILITIES LOCATED IN CITY RIGHT-OF-WAY

Unless otherwise provided or excepted herein, the removal, adjusting, relocation, or replacement of utility structures or facilities within City right-of-way which may be necessary for construction of the work in accordance with these Contract Documents, shall be at the expense of the Contractor.

It shall be the Contractor's responsibility to protect and maintain those utilities which, in the opinion of the Engineer, do not need to be disturbed in order to accomplish the work required by the contract.

1.04 RELOCATIONS OF EXISTING GAS LINES, TELEPHONE LINES, ELECTRIC LINES, CABLE TV LINES AND WATER LINES

The Contractor shall notify the proper authority of the utility involved when relocation of these lines is required. The Contractor shall coordinate all work by the utility so that the progress of construction will not be hampered.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION

3.01 GENERAL

The Contractor, when the Notice to Proceed is received, shall notify the owners of utilities affected by the work, the approximate date upon which he will begin work, and shall submit a progress schedule of the proposed work. This shall be deemed sufficient notice if the project progresses according to the progress schedule submitted with the notification. If changes in the schedule of the

work occur, the Contractor shall appraise both the owner of the utility affected and the Engineer so that adjustments in the work schedule of utility can be made. The Contractor shall be responsible for damages to the utility facility and construction delays resulting from failure to notify the utility and the Engineer of changes in procedure or location.

3.02 PROTECTION OF EXISTING UTILITIES

- A. The attention of the Contractor is drawn to the fact that during excavation, the possibility exists of the Contractor encountering various water, gas, telephone, electrical, or other utility lines not shown on the Drawings. The Contractor shall exercise extreme care before and during excavation to locate and flag these lines so as to avoid damage to the existing lines. Should damage occur to an existing line, the Contractor shall repair the line at no cost to the Owner.
- B. The Contractor shall assume full responsibility for the protection of all utilities, public and private, including poles, services to buildings, gas pipes, water pipes, hydrants, sewers, drains, and electric and telephone cables, whether or not they are shown on the Drawings. The Contractor shall carefully support and protect all such utilities from injury of any kind. Any damage resulting from the Contractor's operation shall be repaired by him at his expense.

The protection and preservation of utility facilities which are located within the right-of-way, but outside the normal limits of construction, as determined by the Engineer, shall be the responsibility of the Contractor. The Contractor shall be responsible for all damage to utilities which are due to his negligence.

- C. The Contractor shall bear full responsibility for obtaining locations of all underground structures and utilities (including existing water services, drain lines, and sewer). Services to buildings shall be maintained, and all costs or charges resulting from damage thereto shall be paid by the Contractor.
- D. If, in the opinion of the Engineer, permanent relocation of a utility owned by the City is required, he may direct the Contractor, in writing, to perform the work. Work so ordered will be paid for at the Contract unit prices, if applicable, or as extra work under Article 10 of the General Conditions. If relocation of a privately owned utility is required, the Contractor will notify the Utility to perform the work as expeditiously as possible. The Contractor shall fully cooperate with the County and Utility and shall have no claim for delay due to such relocation.
- E. The Contractor shall notify public and private utility companies in writing at least two, but not more than five full days (excluding Saturdays, Sundays, and legal holidays) before excavating near their utilities.

3.03 UTILITIES TO BE ADJUSTED

The owners of utility facilities which require relocation, removal, adjustment or replacement shall, if possible and feasible, perform this work prior to the commencement of the Contractor's work. Where utility work must be done in conjunction with the Contractor's work on the project or in conjunction with the work of other utilities, arrangements for when, how and where the operation is to proceed

shall be worked out among the parties concerned. If disputes arise, the Engineer shall decide the course of action to be taken.

3.04 UTILITIES CONFLICTING WITH OPERATIONS

Those utility facilities which do not conflict with the improvement, but which are obstructions to the operations required for installation or which are obstructions to the operations required for installation of which present unusual difficulty due to their close proximity to the area of the operations, shall be located with certainty by the owners of the utility prior to the arrival of the Contractor's operation which would be hindered by the utility facility. The Contractor is required to preserve the utility facility in place without damage and shall be responsible for damages sustained, if the utility owner has located the facility by exposing it to the view of the Contractor or has otherwise made the Contractor aware, with certainty, of the location of the facility. Any other arrangements that the Contractor may make with a utility owner as a substitute for the requirements of this Section shall require the approval of the Engineer, in writing.

3.05 MISLOCATED UTILITIES

The owner of a utility shall be wholly responsible for the proper location of his facilities which are affected by construction work performed according to these specifications. Improperly located or mislocated facilities which are damaged during construction shall be the responsibility of the utility, providing proper notification has been given.

*** * END OF SECTION * ***

SECTION 01045
CUTTING AND PATCHING

PART 1 GENERAL

1.01 REQUIREMENTS INCLUDED

Contractor shall be responsible for all cutting, fitting and patching, including attendant excavation and backfill, required to complete the Work to include:

- A. Make its several parts fit together properly.
- B. Uncover portions of the Work to provide for installation of ill-timed work.
- C. Remove and replace defective work.
- D. Remove and replace work not conforming to requirements of the Contract Documents
- E. Remove samples of installed work as specified for testing.

1.02 SUBMITTALS

- A. Submit a written request to the Engineer well in advance of executing any cutting or alteration which affects:
 - 1. Work of the Owner or any separate contractor.
 - 2. Structural value or integrity of any element of the Project or work.
 - 3. Integrity or effectiveness of weather-exposed or moisture-resistant elements or systems.
 - 4. Efficiency, operational life, maintenance or safety of operational elements.
 - 5. Visual qualities of sight-exposed elements.
- B. Request shall include:
 - 1. Identification of the work.
 - 2. Description of affected work.
 - 3. The necessity for cutting, alteration or excavation.
 - 4. Effect on work of Owner or any separate Contractor, or on structural or weatherproof integrity of work.

-
5. Description of proposed work:
 - a. Scope of cutting, patching, alteration, or excavation.
 - b. Trades who will execute the work.
 - c. Products proposed to be used.
 - d. Extent of refinishing to be done.
 6. Alternatives to cutting and patching.
 7. Cost proposal, when applicable.
- C. Submit written notice to the Engineer designating the date and the time the work will be uncovered.

PART 2 PRODUCTS

2.01 MATERIALS

Comply with specifications and standards for each specific product involved.

PART 3 EXECUTION

3.01 INSPECTION

- A. Inspect existing conditions of Project, including elements subject to damage or to movement during cutting and patching.
- B. After uncovering work, inspect conditions affecting installation of products or performance or work.
- C. Report unsatisfactory or questionable conditions to the Engineer in writing; do not proceed with work until the Engineer has provided further instructions.

3.02 PREPARATION

- A. Provide adequate temporary support as necessary to assure structural value or integrity of affected portion of Work.
- B. Provide devices and methods to protect other portions of Project from damage.
- C. Provide protection from elements for the portion of the Project which may be exposed by cutting and patching work, and maintain excavations free from water.

3.03 PERFORMANCE

- A. Execute cutting and demolition by methods which will prevent damage to other work and will provide proper surfaces to receive installation of repairs.
- B. Execute excavating and backfilling by methods which will prevent settlement or damage to other work.
- C. Employ original installer or fabricator to perform cutting and patching for:
 - 1. Weather-exposed or moisture-resistant elements.
 - 2. Sight-exposed finished surfaces.
- D. Execute fitting and adjustment of products to provide a finished installation to comply with specified products, functions, tolerances and finishes.
- E. Restore work which has been cut or removed; install new products to provide completed work in accord with requirements of Contract Documents.
- F. Refinish entire surfaces as necessary to provide an even finish to match adjacent finishes:
 - 1. For continuous surfaces, refinish to nearest intersection.
 - 2. For an assembly, refinish entire unit.

*** * END OF SECTION * ***

SECTION 01050

FIELD ENGINEERING

PART 1 GENERAL

1.01 REQUIREMENTS INCLUDED

- A. The Contractor shall provide and pay for field engineering services for:
 - 1. Survey work required in execution of work.
 - 2. Civil, structural, or other professional engineering services specified or required to execute the Contractor's construction method.
- B. The method of field staking for the construction of the work shall be at the option of the Contractor. The Owner shall provide the engineering surveys to establish reference points which in his judgment are necessary to enable the Contractor to proceed with his work.
- C. The accuracy of any method of staking shall be responsibility of the Contractor. All engineering for vertical and horizontal control shall be the responsibility of the Contractor.
- D. The Contractor shall be held responsible for the preservation of all stakes and marks. If any stakes or marks are carelessly or willfully disturbed by the Contractor, the Contractor shall not proceed with any work until he has reestablished such points, marks, lines and elevations as may be necessary for the prosecution of the work.
- E. The Contractor shall retain the services of a competent surveyor, registered in the State of Mississippi, to layout the work and maintain a survey during construction. The Contractor shall be solely responsible for proper location of the work.

1.02 SURVEY REFERENCE POINTS

Locate and protect control points prior to starting site work, and preserve all permanent reference points during construction.

- 1. Make no changes or relocations without prior written notice to the Engineer.
- 2. Report to the Engineer when any reference point is lost or destroyed or requires relocation because of necessary changes in grades or locations.

1.03 PROJECT SURVEY REQUIREMENTS

- A. Establish temporary bench marks as needed, referenced to data established by survey control points. Record locations, with horizontal and vertical data, on Record Drawings.
- B. Establish lines and levels, and locate and lay out, by instrumentation and similar appropriate

means:

1. Site improvements, including utility slopes and invert elevations.
 2. Batter boards for structures.
- C. From time to time, verify layouts by same methods.
- D. Establish all lines and grades prior to construction of site improvements.

1.04 RECORDS

- A. Maintain a complete, accurate log of all control and survey work as it progresses.
- B. At Contract closeout, submit a survey of installation of water mains, fire hydrants, and valves at the same scale as the Engineer's drawings indicating elevations and channel stationing at 100 foot increments.

1.05 SUBMITTALS

- A. On request of the Engineer, submit documentation to verify accuracy of field engineering work.
- B. Submit Drawings showing locations of all pipes and structures constructed. This Drawing shall be included with the Record Drawings.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

*** * END OF SECTION * ***

SECTION 01060

REGULATORY REQUIREMENTS

PART 1 GENERAL

1.01 REQUIREMENTS INCLUDED

Abbreviations and acronyms used in Contract Documents to identify reference standards are as indicated herein.

1.02 QUALITY ASSURANCE

- A. Applications: When a standard is specified by references, comply with requirements and recommendations stated in the standard, except when requirements are modified by the Contract Documents, or applicable codes establish stricter standards.
- B. Publications Date: The publication in effect on the date of issue of Contract Documents, except when a specific publication date is specified.

1.03 ABBREVIATIONS, NAMES, AND ADDRESSES OF ORGANIZATIONS

The following standards may be referenced in the Contract Documents. The contractor shall obtain copies of reference standards directly from the publication source when needed for proper performance of Work or when required for submittal by Contract Documents.

AAN	American Association for Nurserymen 1250 I Street N.W., Suite 500 Washington, DC 20005 (202) 789-2900
AASHTO	American Association of State Highway and Transportation Officials 444 North Capitol Street, N.W., Suite 225 Washington, DC 20001 (202) 624-5800
ACI	American Concrete Institute Post Office Box 19150 22400 W. Steven Mile Road Detroit, MI 48219 (313) 532-2600
ACPA	American Concrete Pipe Association 8320 Old Courthouse Road, Suite 201 Vienna, VA 22180 (703) 821-1990
AI	Asphalt Institute

	Asphalt Institute Building College Park, MD 20740-1802
AISC	American Institute of Steel Construction 400 North Michigan Avenue Chicago, IL 60611 (312) 670-2400
AISI	American Iron and Steel Institute 1133 15th Street N.W., Suite 300 Washington, DC 20005 (202) 452-7100
ANSI	American National Standard Institute 1430 Broadway New York, NY 10018 (212) 354-3300
ASCE	American Society of Civil Engineers 345 East 47th Street New York, NY 10017 1-800-548-ASCE 345 East 47th Street New York, NY 10017 (212) 705-7722
ASTM	American Society for Testing and Materials 1916 Race Street Philadelphia, PA 19103 (215) 299-5400
AWPA	American Wood Preserver's Association Post Office Box 849 Stevensville, MD 21666 (301) 643-4163
AWS	American Welding Society Post Office Box 351040 550 LeJeune Road, N.W. Miami, FL 33126 1-800-443-9353
AWWA	American Water Works Association 6666 W. Quincy Avenue Denver, CO 80235 (303) 794-7711
CLFMI	Chain Link Fence Manufacturers Institute

	1776 Mass Avenue N.W., Suite 500 Washington, DC 20036 (202) 659-3537
CRSI	Concrete Reinforcing Steel Institute 933 N. Plum Grove Road Schaumburg, IL 60173 (312) 517-1200
DIPRA	Ductile Iron Pipe Research Association 245 Rivercase Parkway E., Suite 100 Birmingham, AL 35244 (205) 988-9870
FS	Federal Specification General Services Administration Specifications and Consumer Information & Distribution Section (WFSIS) 7 and D Street S.W., Room 654 Washington, DC 20407 (202) 472-2140
IEEE	Institute of Electrical and Electronic Engineers Service Center 345 E. 47th Street New York, NY 10017 (212) 705-7900
MDOT	Mississippi Department of Transportation P. O. Box 1850 Jackson, Ms 39215-1850 (601) 359-1213
MIL	Department of the Navy Navel Publications and Forms Center 5801 Torbor Avenue Philadelphia, PA 19120-5099 (215) 697-2667
NEC	National Electric Code National Fire Protection Association Batterymarch Park Quincy, MA 02269 (617) 770-3000
NEMA	National Electrical Manufacturer's Association 2101 L Street, NW, Suite 300 Washington, DC 20037 (202) 457-8400
NSPE	National Society of Professional Engineers

	1420 King Street Alexandria, VA 22314 (703) 684-2835
OSCI	Office of Standards Code and Information National Bureau of Standards Gaithersburg, MD 20899 (301) 975-4029
PCA	Portland Cement Association 5420 Old Orchard Road Skokie, IL 60077 (312) 966-6200
PCI	Prestressed Concrete Institute 175 W. Jackson Blvd., Suite 1859 Chicago, IL 60604 (312) 786-0300
SMACNA	Sheet Metal and Air Conditioning Contractors' National Association Post Office Box 70 Merrifield, VA 22116 (703) 790-9890
SSPC	Steel Structures Painting Council 4400 5th Avenue Pittsburgh, PA 15213 (412) 268-3327
UL	Underwriter's Laboratories, Inc. 333 Pfingsten Road Northbrook, IL 60062 (312) 272-8800

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

*** * END OF SECTION * ***

SECTION 01200
PROJECT MEETINGS

PART 1 GENERAL

1.01 Requirements Included

- A. The ENGINEER shall schedule and administer a preconstruction meeting, construction progress meetings, and specially called meetings throughout the progress of the work. The ENGINEER will:
 - 1. Prepare agenda for meetings.
 - 2. Make physical arrangements for meetings.
 - 3. Preside at meetings.
 - 4. Record the minutes; include significant proceedings and decisions.
 - 5. Reproduce and distribute copies of minutes.
- B. The CONTRACTOR and representatives of, where appropriate, subcontractors and suppliers shall attend meetings. The representative shall be qualified and authorized to act on behalf of the entity each represents.
- C. The CONTRACTOR shall attend and identify at the meetings the actual status of the Contract Work and, when the Work is not being performed consistently with the Contract Documents and construction schedules, shall identify at the meetings the steps he is taking to resolve the inconsistency.

1.02 Pre-construction Meeting

- A. The CONTRACTOR shall participate in a preconstruction meeting to be held after the effective date of the Agreement and prior to the date of Notice to Proceed.
- B. The following are expected to be in attendance:
 - 1. OWNER'S Representative and other staff as appropriate.
 - 2. ENGINEER and his professional consultants as appropriate.
 - 3. ENGINEER's Resident Project Representative.
 - 4. CONTRACTOR's Representative and Construction Superintendent.
 - 5. Subcontractors as appropriate.
 - 6. Utility representatives as appropriate.
 - 7. Others as appropriate.
- C. The following matters are expected to be addressed:
 - 1. Distribution and discussion of:
 - a. List of major subcontractors.
 - b. Project construction schedules.
 - 2. Critical work sequencing.
 - 3. Project Coordination.
 - 4. Designation of responsible personnel.
 - 5. Procedures and processing of:

-
- a. Field decisions.
 - b. Proposal requests.
 - c. Submittals.
 - d. Change Orders.
 - e. Applications for Payment.
 6. Distribution of Contract Documents.
 7. Procedures for maintaining Record Documents.
 8. Use of premises:
 - a. Office, work and storage areas.
 - b. OWNER'S requirements.
 9. Construction facilities, controls and construction aids.
 10. Temporary utilities.
 11. Housekeeping procedures.
 12. Insurance certifications.
 13. Liquidated damages for delay.
 14. Weekly job meetings.
 15. Laboratory testing of material requirements.

1.03 Construction Progress Meetings

- A. Construction progress meetings will be held monthly with the first meeting 30 days or less after the date of Notice to Proceed.
- B. Special construction progress meetings will be held as required by progress of the Work.
- C. The following are expected to be in attendance:
 1. OWNER Representative and other staff as appropriate.
 2. The ENGINEER and his professional consultants as appropriate.
 3. CONTRACTOR's Representative and/or construction Superintendent.
 4. Subcontractors as appropriate.
 5. Suppliers as appropriate.
 6. Others as appropriate.
- D. The following matters are expected to be addressed:
 1. Review and approve minutes of previous meeting.
 2. Review of work progress.
 3. Field observations, problems, conflicts.
 4. Problems which impede Construction Schedule.
 5. Review of off-site fabrication, delivery schedules.
 6. Corrective measures and procedures to regain Construction Schedule.
 7. Revisions to Construction Schedule.
 8. Progress and schedule during succeeding work period.
 9. Payment applications and processing.
 10. Submittals.
 11. Maintenance of quality standards.
 12. Changes, substitutions, and Change Orders.

-
- 13. Review proposed changes for:
 - a. Effect on Construction Schedule and completion date.
 - b. Effect on other contracts of the Project.
 - 14. Other matters as appropriate.
 - 15. Record drawings.
- E. The CONTRACTOR shall be prepared to discuss the above topics and to make commitments for resolving deficiencies.
- F. The CONTRACTOR shall provide a current submittal log at each progress meeting in accordance with Section 01340.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

**** END OF SECTION ****

CITY OF HATTIESBURG

SPECIAL PROVISION NO. 907-608-1

CODE: (XX)

DATE: 8/07/2009

SUBJECT: ASPHALT PAVEMENT TEXTURING

608.01-Description. This work consist of elevating the temperature of an asphalt pavement surface and then pressing a metal template into the surface to replicate, in relief, the grout depressions common to hand-laid brick or cobblestone, or any other design as shown on the drawings or described in the specifications. The imprinted asphalt pavement surface is then coated with a coating or system of coatings specifically formulated for asphalt pavement. It shall include the furnishing and application of coating or system of coatings.

608.02-References

608.02.1. ASTM D-4541 Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Tester.

608.02.2. ASTM D-4060 Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser.

608.02.3. ASTM D522-93A Standard Test Method for Mandrel Bend Test of Attached Organic Coatings.

608.02.4. ASTM G-155 QUV Accelerated Weathering Environment. Standard Practice for Operating Fluorescent Light Apparatus for UV Exposure of Nonmetallic Materials.

608.02.5. ASTM D-2486 MEK rub test for chemical resistance.

608.02.6. ASTM E-303 British Pendulum test for friction.

608.02.7. EPA 24 ASTM D3960-05 Volatile Organic Compounds.

608.03-Definitions

608.03.1. "Qualified Applicator" is a contractor or applicator who has completed asphalt pavement texturing work and can provide certification and references upon request.

608.03.2. "Textured asphalt Pavement" is asphalt pavement that has been subjected to imprinting or stamping in a specific pattern.

608.04-Submittals. The documents required shall be submitted within 10 days after Notice of Award is issued. The documents are as follows:

608.04.1 Proof of applicator's ability. A copy of the current year license as provided to the proposed applicator issued by a recognized authority in the execution of asphalt pavement texturing work. Failing that, at least 3 reference sites and written references from 3 previous customers for work performed by this applicator.

608.04.2 A list of the major equipment to be used in the execution of the Work. This list will include the asphalt pavement reheat machinery, spray equipment, compactor(s) and templates.

608.04.3 The name of the coating(s) and the coating supplier's name.

608.04.4 Certified performance test results of the coating materials as outlined in Table 1.

608.04.5 Confirmation of coating color(s).

608.05-Construction Requirements

608.05.1 Coatings. Properly designed asphalt pavement coatings have been scientifically formulated to provide the optimal balance of performance properties for a durable, long lasting color and texture to asphalt pavement surfaces. The asphalt pavement coating shall be environmentally safe and meet EPA requirements for Volatile Organic Compounds (VOC). Only asphalt pavement coatings from qualified pavement coating suppliers shall be used. The coating supplier shall provide proof of these required performance properties in Table 1.

608.05.2 Minimum Performance Properties of Asphalt Coatings. The following table outlines the minimum required performance properties of the asphalt pavement coating. These performance properties must be ascertained by a Certificate of Analysis issued by an approved testing facility.

TABLE 1: Required Performance Properties of Asphalt Pavement Coating

Characteristic	Test Specification	Minimum Required result
Durability Taber Abrasion (cycles to wear-through)	ASTM D-4060 Abrasion Resistance of Organic Coatings (wet wear) 7 day cure, 24 hour soak;H-10 wheel	Wear Index (WI) < 5.0
Color stability	ASTM G-155 QUV 2,000 hours (CIE units)	Brick color $\Delta E < 1.5$
Flexibility: Mandrel Bend	ASTM D522-93A Flexibility as measured by Mandrel bend 0.5mm thick sample passes 10 mm at 21°C 0.5mm thick sample passes 125mm at -18°C	
Chemical resistance	ASTM D-2486 Modified MEK scrubs 16 dry mils, number of scrubs until 50% substrate exposed	>5000
Adhesion to Asphalt	ASTM D-4541	Substrate Failure
Friction Wet	ASTM E-303 British Pendulum Tester	>55
Environmental Sensitivity	EPA 24 ASTM D3960-05 Volatile Organic Compounds	VOC < 150

608.05.3 Equipment. The following specialized equipment shall be used in the execution of the Work.

608.05.3.1 Metal wire rope templates are used to create the desired imprint pattern. Metal wire rope shall be $\frac{3}{8}$ " in diameter. Only use templates that have been supplied by a manufacturer who has the proven expertise in manufacturing these templates for this type of application.

608.05.3.2 Only asphalt pavement reheat equipment specifically designed for asphalt pavement texturing shall be used in the execution of this work. The primary asphalt pavement re-heat equipment must cycle the heat application and must allow the equipment operator to check the pavement surface temperature during the heating process. These controls are necessary to enable the pavement temperature to be elevated gradually, giving the operator the ability to ensure that the pavement is not overheated or adversely affected. Heaters without these controls are strictly prohibited as the primary re-heat equipment.

608.05.3.3 Hand-held portable heating devices may be used only for areas where it is difficult to operate the re-heat machine. These may not be used as the primary pavement re-heating device.

608.05.3.4 Finishing tools that are designed to enable the applicator to complete the imprinting of the asphalt pavement in areas which may be inaccessible to the template such as curbs and manhole covers are permitted.

608.05.3.5 Vibratory Plate Compactors shall be used for pressing the templates into the heated asphalt pavement to create the specified pattern.

608.05.3.6 Specialized coating spray equipment must be used in the application of the coating and must be capable of applying the coating to the asphalt pavement surface in a thin, controlled film which will optimize the drying and curing time of the coating. More specifically, the spray equipment pump must be capable of providing a continuous recirculation of the coating in order to keep the solids within the coating in suspension.

608.05.4 Execution

608.05.4.1 General. The pavement texturing system shall be supplied and installed by a Qualified Applicator in accordance with the plans and specifications or as directed by the Owner. Do not begin the Work until confirmation of the Applicator's qualifications is provided in accordance with 608.04.

608.05.4.2 Pre-Conditions – Asphalt Pavement. A highly stable asphalt pavement free of defects is a pre-requisite for the installation of a pavement texturing system. Do not install the pavement texturing system over poor quality asphalt pavement.

608.05.4.2.1 Pre-requisites for new asphalt pavement. A durable and stable asphalt pavement mix design installed according to best practices over a properly prepared and stable substrate is a pre-requisite for all long-lasting asphalt pavement surfaces. The application of a pavement texturing system does not change this requirement.

608.05.4.2.2 Pre-requisites for existing asphalt pavement. Depending upon the condition and age, existing asphalt pavement may or may not be suitable for the successful application of a pavement texturing system. Minimally, the asphalt pavement must be in excellent condition and not have any defects including cracks, ruts or potholes nor demonstrate any flushing, raveling or like deficiencies.

608.05.4.2.3 Pavement Marking Removal: recommended guidelines. Pavement markings may be removed by sandblasting, water-blasting, grinding, or other approved mechanical methods. The removal methods shall, cause no damage to the pavement surface. The Owner shall determine if the removal of the markings is satisfactory for the application of the pavement texturing system. Work shall not proceed until this approval is granted.

608.05.4.2.4 Surface Preparation. The asphalt pavement surface shall be dry and free from all foreign matter, including but not limited to dirt, dust, de-icing materials, and chemical residue.

608.05.4.3 Layout. Layout of the pattern for imprinting into the surface of the asphalt pavement shall be as per the drawings and specifications.

608.05.4.4 Heating the Asphalt Pavement. The Applicator shall use asphalt pavement reheat equipment as described in Section 608.05.3.

The optimal pavement temperature for imprinting the template is dependent upon mix design, modifiers used in the mix, the age of the pavement and weather. The surface temperature of the pavement should not exceed 325°F as determined by an infra-red thermometer reading taken after the heat is applied to the asphalt pavement.

In order to achieve the proper depth of imprint it is important to elevate the asphalt pavement temperature to a minimum depth of 1/2 inch (12.5mm) without burning the pavement surface. This shall be accomplished using asphalt pavement reheat equipment that is specifically designed for this Work.

608.05.4.5 Surface Imprinting. The pavement surface shall be dry and free from all foreign matter, including but not limited to dirt, dust, de-icing materials, and chemical residue.

Once the asphalt pavement has reached imprinting temperature, the templates shall be placed in position and pressed into the surface using vibratory plate compactors. The top of the template is to be flush with the surrounding asphalt pavement and can then be removed. Areas that have an imprint depth less than 3/8 inch shall be re-heated and re-stamped prior to applying the coatings. Hand tooling is a permitted method to achieve proper imprint depth in areas difficult to get at with the template.

608.05.4.6 Application of Asphalt Pavement Coating.

608.05.4.6.1 Application Guidelines. The qualified applicator shall refer to the asphalt pavement coating supplier's recommendations for methods of application. Special care and attention must be paid to ensure asphalt pavement coatings are applied in environmental conditions that permit proper cure.

The coating application shall proceed as soon as possible upon completion of the imprinting of the asphalt pavement.

The pavement surface shall be completely dry and thoroughly cleaned prior to application of the asphalt pavement coating(s).

The qualified applicator shall use spray equipment specifically designed for the application of the coating(s) as outlined in 608.05.3.

Refer to the asphalt pavement coating supplier's recommendations for coating coverage rate, number of recommended passes and recommended film thickness.

608.05.4.7 Opening to Traffic. The surface coating shall be 100% dry before traffic is permitted.

608.06 Method of Measurement. The measured area is the actual area that has received the asphalt pavement texturing. No deduction will be made for the area(s) occupied by manholes, inlets, drainage structures, bollards or by any public utility appurtenances within the area.

608.07 Payment. Asphalt Pavement Texturing will be paid for at the contract unit price per unit specified in the bid schedule of the contract, which shall be full compensation for completing the work.

Payment will be made under:

907-608-E: Asphalt Pavement Texturing

- per square foot

CITY OF HATTIESBURG

SPECIAL PROVISION NO. 907-618-1

CODE: (SP)

DATE: 6/22/2020

SUBJECT: Placement of Permanent Pavement Markings

Section 618, Traffic Control for Construction Zones, of the 2017 Edition of the Standard Specifications for Road and Bridge Construction, Mississippi Department of Transportation is hereby amended as follows:

907-618.03.3—Safe Movement of Traffic. Paragraph 13, Page 446

Delete the first sentence of the next to last paragraph of Subsection 618.03.3 on page 446 and substitute the following:

Permanent pavement markings to be applied no sooner than 10 days nor later than 20 days after placement of final lift of pavement.

HARDY STREET PAVING PROJECT

21ST AVENUE TO WEST PINE STREET

HATTIESBURG, MISSISSIPPI

FORREST COUNTY

MAYOR

TOBY BARKER

CHIEF ADMINISTRATIVE OFFICER

ANN JONES

ENGINEERING DIRECTOR

LAMAR RUTLAND, P.E.

COUNCIL MEMBERS

JEFFREY GEORGE WARD 1

DEBORAH D. DELGADO WARD 2

CARTER CARROLL WARD 3

MARY DRYDEN WARD 4

NICHOLAS BROWN WARD 5

UTILITIES

CITY OF HATTIESBURG

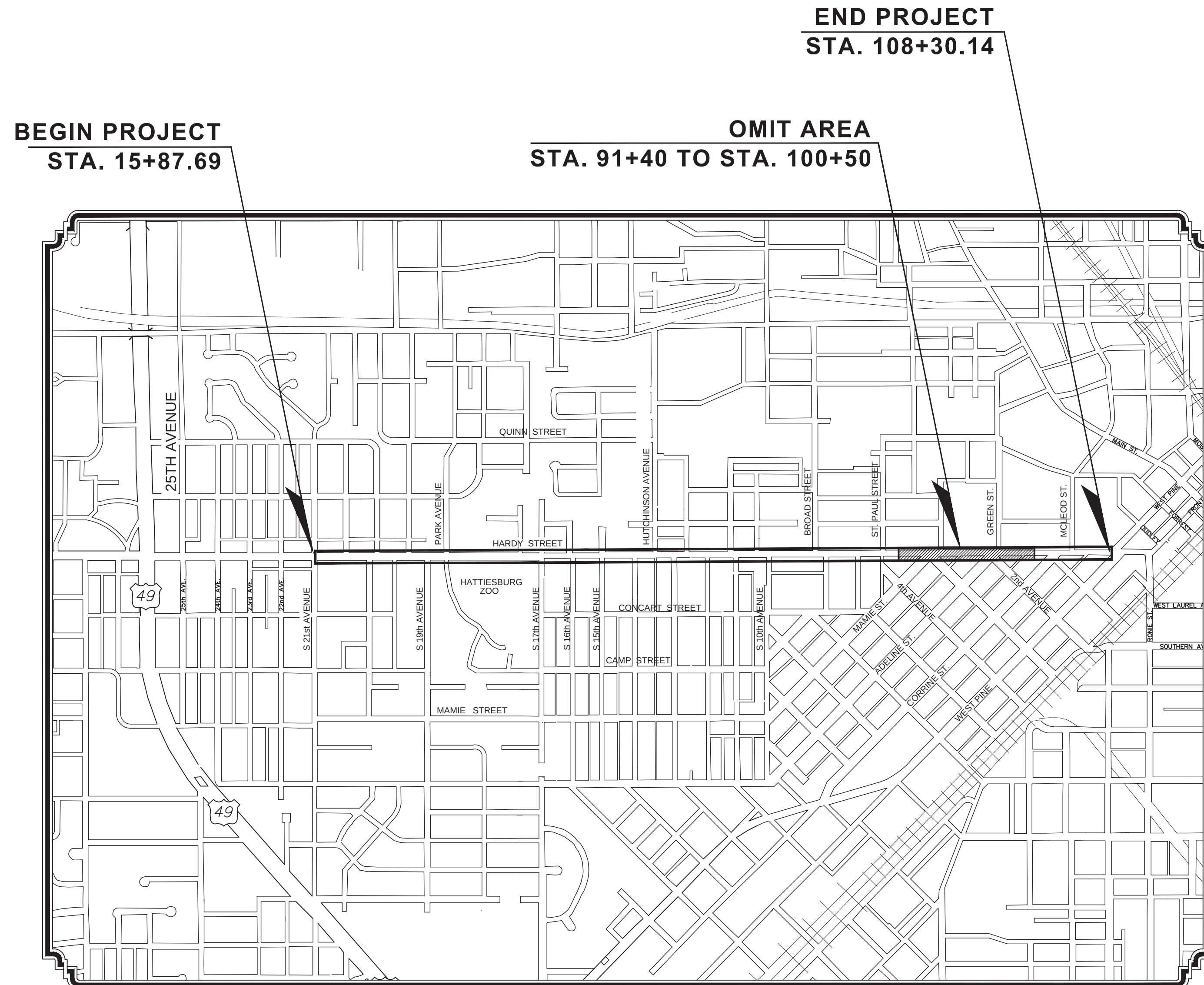
MISSISSIPPI POWER

AT&T

SPIRE GAS

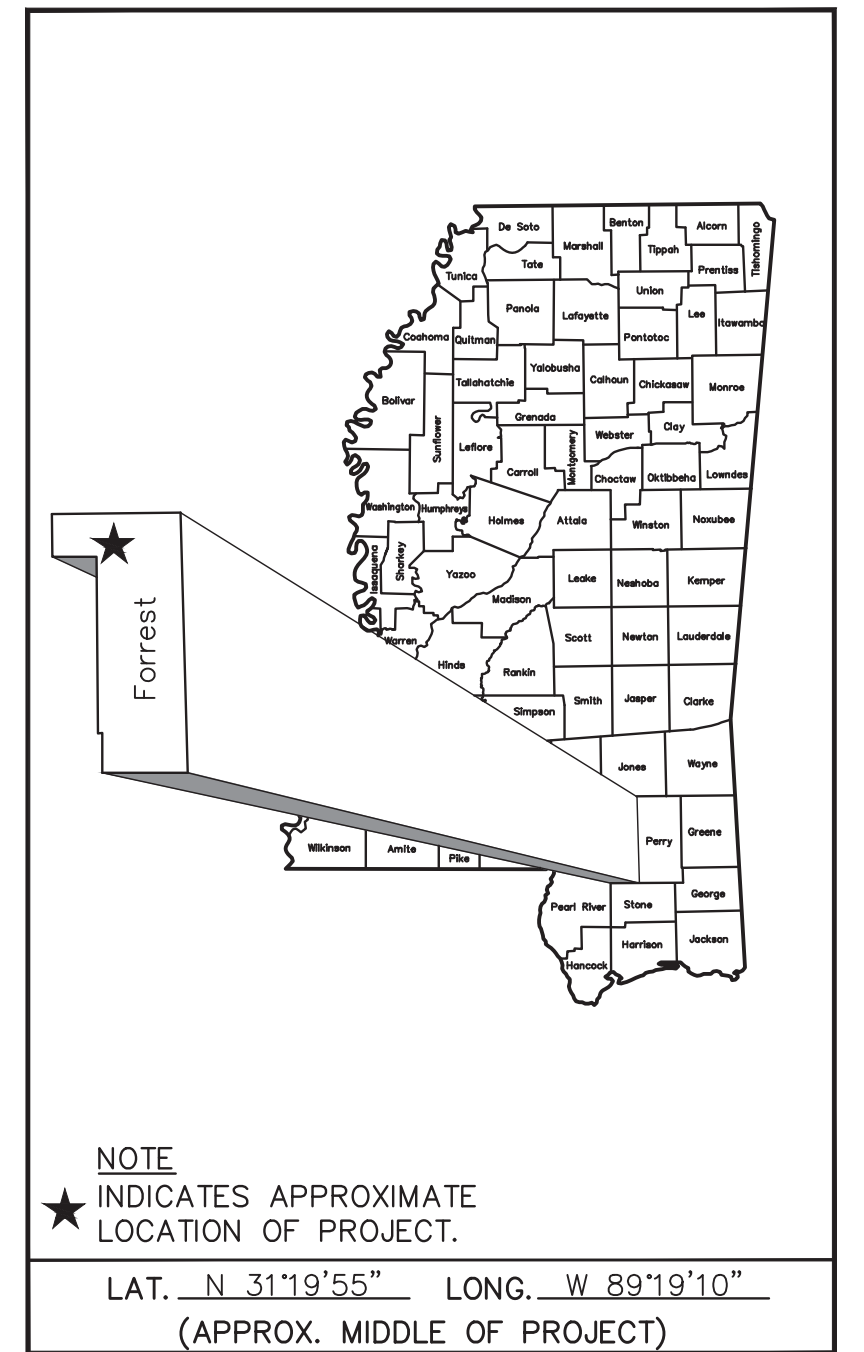
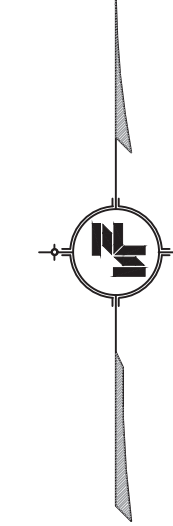
COMCAST

UNITI



VICINITY MAP

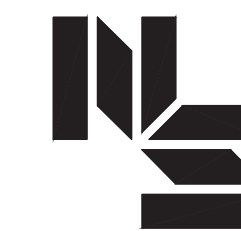
PROJECT LOCATION



NOTE
★ INDICATES APPROXIMATE
LOCATION OF PROJECT.

LAT. N 31°19'55" LONG. W 89°19'10"
(APPROX. MIDDLE OF PROJECT)

PREPARED BY :



NEEL-SCHAFFER
Solutions you can build upon



JEFFERY L. LEE, P.E.
MISSISSIPPI LICENSE NO. 10746

THE PROJECT SHALL BE PERFORMED IN STRICT CONFORMANCE WITH THE MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2017 EDITION.

DETAILED INDEX

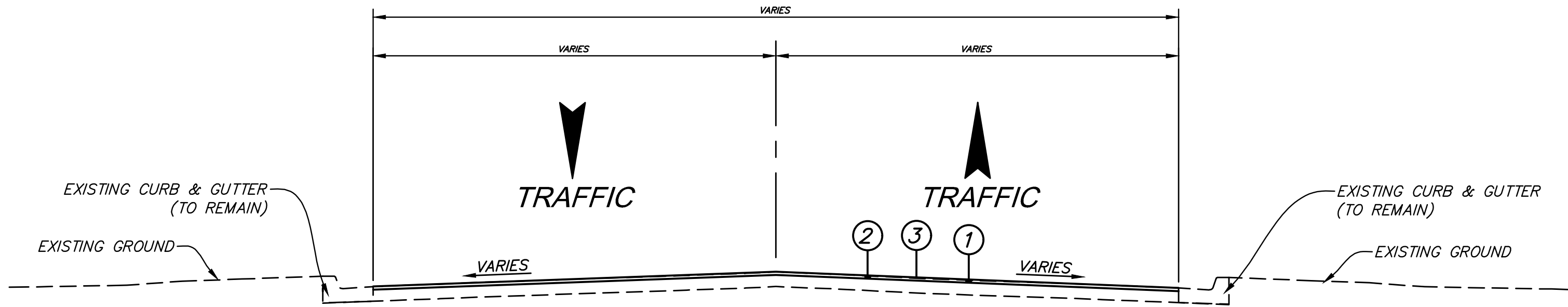
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TRAFFIC CONTROL PLAN WITH FLAGGER (ONE-LANE CLOSURE OF TWO-WAY TRAFFIC)	TCP-2	14
ESTIMATED QUANTITIES – TRAFFIC CONTROL	EQ-TC	15
<u>STANDARD DETAIL SHEETS (3)</u>		
HIGHWAY SIGN BARRICADE DETAILS FOR CONSTRUCTION PROJECTS	SDTCP-10	16
PAVEMENT MARKING DETAILS FOR 4-LANE AND 5-LANE UNDIVIDED ROADWAYS	PM-2	17
PAVEMENT MARKING LEGEND DETAILS	PM-6	18
<u>TOTAL NUMBER OF SHEETS (18)</u>		

1. EXISTING UNDERGROUND UTILITY LINES ARE SHOWN ON THE DRAWINGS BASED UPON THE BEST INFORMATION AVAILABLE TO THE ENGINEER. THE ENGINEER CANNOT AND DOES NOT WARRANT THAT THIS INFORMATION IS COMPLETE OR ACCURATE. THE CONTRACTOR MUST COORDINATE DIRECTLY WITH THE INVOLVED UTILITY OWNERS TO HAVE UNDERGROUND UTILITY LINES FIELD LOCATED IN ADVANCE OF CONSTRUCTION.
2. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING GRADES AND MAKING ADJUSTMENTS AS NECESSARY WITH THE APPROVAL OF THE PROJECT ENGINEER.
3. UNLESS OTHERWISE DIRECTED BY OWNER, ALL EXISTING MATERIAL TO BE REMOVED FROM THE PROJECT SITE SHALL BE THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF AT HIS EXPENSE IN ACCORDANCE WITH STATE AND LOCAL LAWS AND REGULATIONS.
4. CONTRACTOR SHALL SUBMIT A DETAILED TRAFFIC CONTROL PLAN WHICH MAINTAINS THROUGH AND LOCAL TRAFFIC AT ALL TIMES FOR EACH PHASE OF CONSTRUCTION. WORK SHALL NOT COMMENCE UNTIL THE TRAFFIC CONTROL PLAN IS REVIEWED AND APPROVED BY THE ENGINEER. ALL COST ASSOCIATED WITH TRAFFIC CONTROL SHALL BE ABSORBED IN THE MAINTENANCE OF TRAFFIC PAY ITEM.
5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT EXISTING STRUCTURES SUCH AS PIPES, INLETS, APRONS, BRIDGES, ETC. FROM DAMAGE WHICH MIGHT OCCUR DURING CONSTRUCTION. THE CONTRACTOR SHALL REPLACE OR REPAIR, AS DIRECTED BY THE ENGINEER, ANY STRUCTURES DAMAGED DURING THE LIFE OF THE CONTRACT. NO PAYMENT WILL BE MADE FOR REPLACEMENT OR REPAIR OF DAMAGED ITEMS.
6. WORK ON STRUCTURES FOR THIS PROJECT REQUIRES EXCAVATION IN THE IMMEDIATE VICINITY OF TRAFFIC AND ADJACENT PROPERTIES. ALL COSTS FOR ANY PROTECTIVE MEASURES INCLUDING THE MATERIALS AND LABOR FOR DESIGNING, DRAWING AND CONSTRUCTING THE PROTECTIVE MEASURES SHALL BE INCLUDED IN THE PRICE BID FOR CONTRACT ITEMS.
7. ALL SIGNS, SIGNALS, PAVEMENT MARKINGS AND TRAFFIC CONTROL DEVICES ON THIS PROJECT SHALL COMPLY WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CURRENT EDITION).
8. PAVEMENT STRIPING SHALL BE INSTALLED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
9. FLUORESCENT ORANGE SHEETING SHALL BE USED ON ALL CONSTRUCTION AND TRAFFIC CONTROL SIGNS EXCEPT FOR THOSE DESIGNATED IN PLANS TO BE BLACK LEGEND AND BORDER ON WHITE BACKGROUND.
10. THE CONTRACTOR IS TO REMOVE AND RESET ANY SIGNS WHICH CONFLICT WITH CONSTRUCTION (NOT A SEPARATE PAY ITEM).
11. THE LOCATION AND SPACING OF SIGNS, SHOWN ON THE TRAFFIC CONTROL PLAN, ARE APPROXIMATE AND MAY BE ADJUSTED AS NECESSARY TO FIT FIELD CONDITIONS.
12. THE CONTRACTOR IS TO NOTIFY THE CITY OF HATTIESBURG AND THE ENGINEER AT LEAST 48 HOURS PRIOR TO ANY LANE CLOSURE OR ANY IMPEDANCE OF TRAFFIC FLOW IN THE PROJECT AREA.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THROUGH AND LOCAL TRAFFIC IN ACCORDANCE WITH THE TRAFFIC CONTROL PLAN AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CURRENT EDITION).
14. CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING MANHOLES, VALVE BOXES, AND ALL OTHER AT GRADE UTILITY APPURTENANCES TO FINAL GRADES.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF REPAIR OR REPLACEMENT OF ANY UTILITIES THAT ARE DISTURBED BY HIS OPERATIONS.
16. THE CONTRACTOR SHALL PERFORM FIELD STAKING AT HIS OWN EXPENSE AS NECESSARY TO SUCCESSFULLY COMPLETE THE WORK.
17. MILLING DEPTH SHALL BE VARIABLE AND AS DIRECTED BY ENGINEER. WHERE EXISTING THICKNESS OF ASPHALT ALLOWS, MILLING SHALL BE PERFORMED SO THAT PROPOSED SURFACE COURSE IS FLUSH WITH EXISTING CURB AND GUTTER.
18. THE CONTRACTOR SHALL PROVIDE ACCESS (INGRESS AND EGRESS) TO LOCAL BUSINESSES AND HOMEOWNERS AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR IS REQUIRED TO NOTIFY BUSINESSES AND HOMEOWNERS AT LEAST 48 HOURS IN ADVANCE OF ACCESS RESTRICTIONS.

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					SCALE:					
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					DSGN: JLL	DATE: 02/2020				
					DRWN: MLJ	DATE: 02/2020				
					CHKD:	DATE:				
					QA/QC:	DATE:				



TYPICAL SECTION
MILLING, LEVELING, AND ASPHALT OVERLAY

- ① 1 1/2" NOM. ASPHALT SURFACE COURSE, 9.5mm (1 @ 1.5" LIFT)
- ② 1 1/2" AND VARIABLE MILLING
- ③ VARIABLE DEPTH ASPHALT LEVELING COURSE 9.5mm

NOTES:
1. MILLING SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 406 OF THE MDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2017 EDITION.
2. STREET PAVING SHALL BE PERFORMED WITHIN 72 HOURS OF MILLING A STREET.
3. CROSS SLOPE SHOULD MATCH EXISTING EXCEPT WHEN CORRECTED BY LEVELING COURSE OR MILLING. CORRECTED SLOPES SHOULD BE 2% UNLESS OTHERWISE APPROVED BY ENGINEER.

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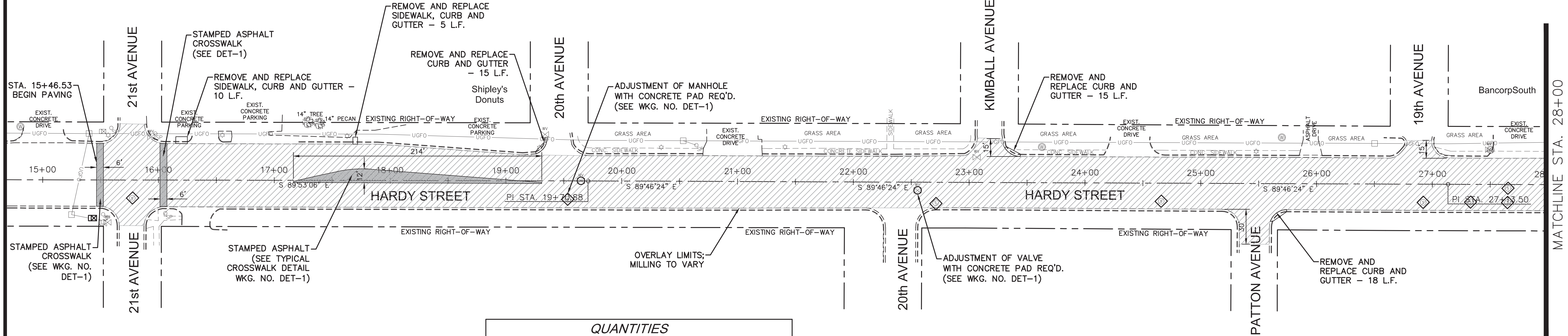
HARDY STREET PAVING PROJECT

CITY OF HATTIESBURG
HATTIESBURG, MS
FORREST COUNTY

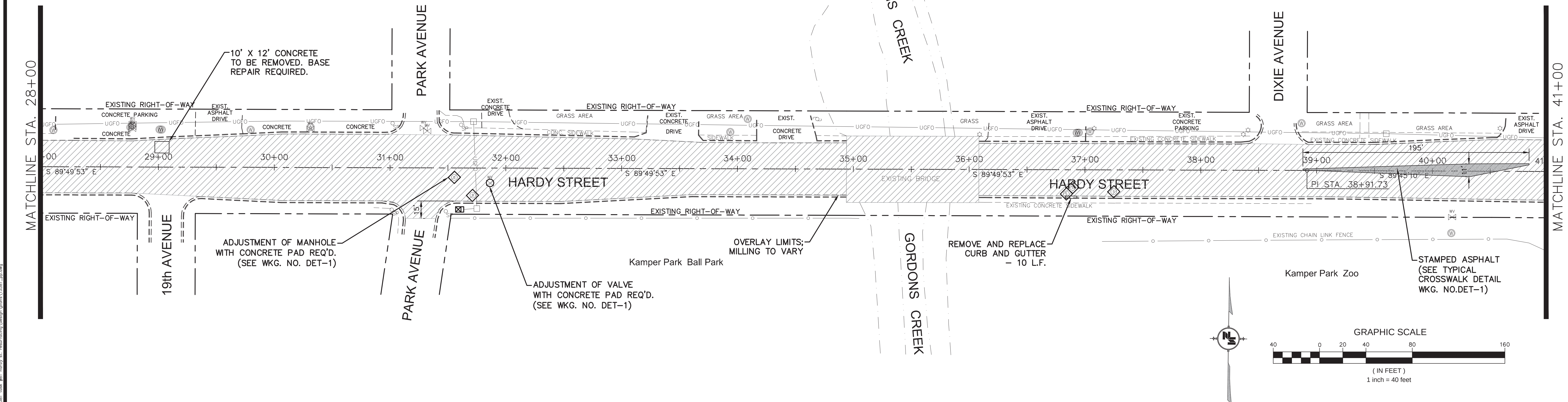


TYPICAL SECTIONS

WORKING NUMBER:	DRAWING NUMBER:
TS-1	3



QUANTITIES		
DESCRIPTION	QUANTITY	UNITS
MILLING	14151	SQ. YD.
ASPHALT OVERLAY	14151	SQ. YD.
STAMPED ASPHALT	3317	SQ. FT.
CONCRETE PAD FOR MANHOLES	13	EACH
CONCRETE PAD FOR VALVES	3	EACH



NOTICE TO DRAWING HOLDER
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REVISIONS				DRAWING INFORMATION	
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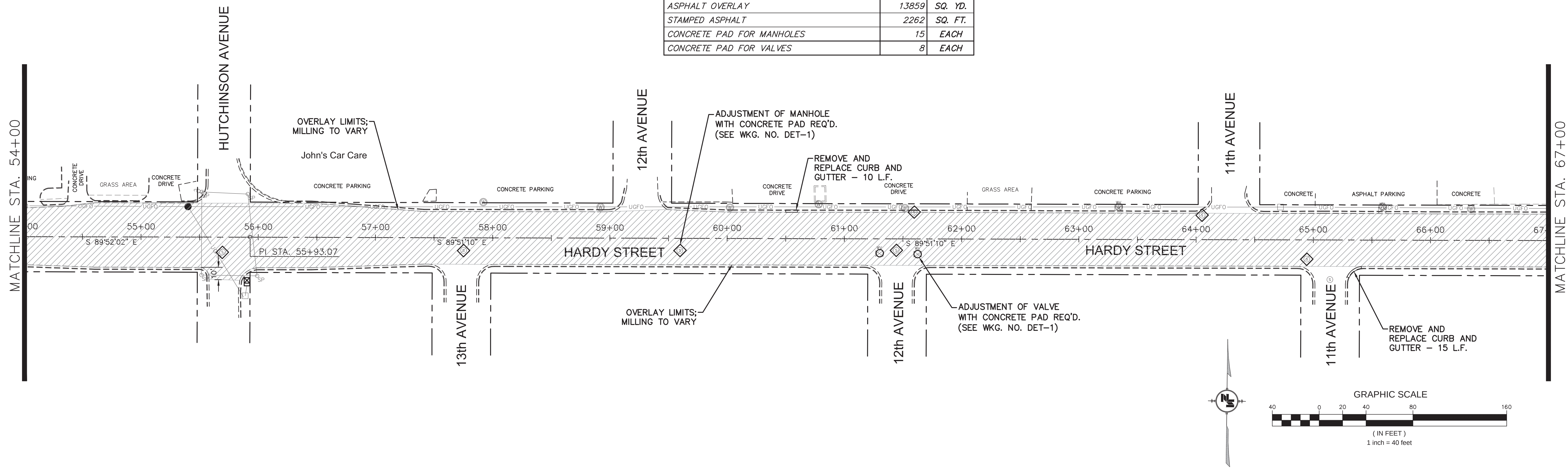
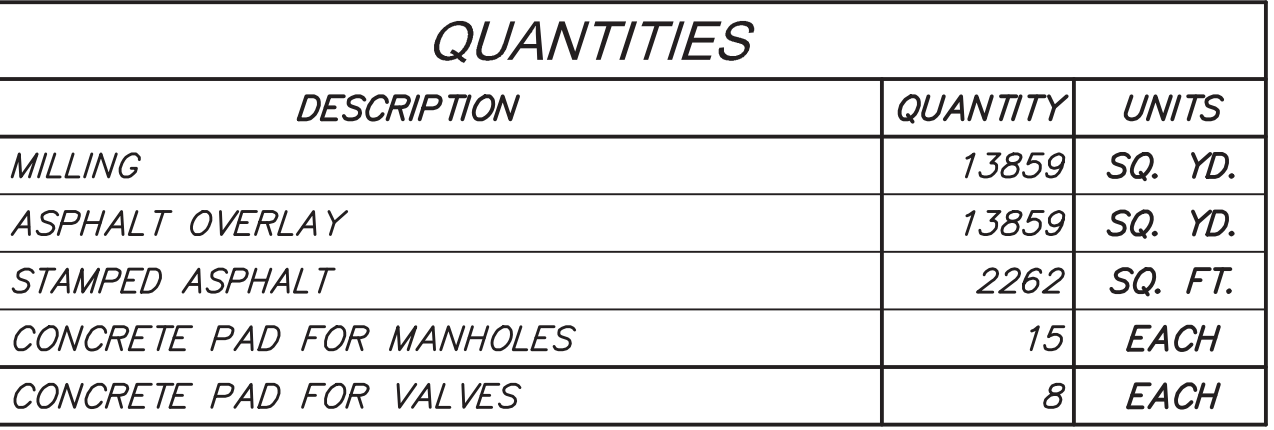
HARDY STREET PAVING PROJECT

CITY OF HATTIESBURG
HATTIESBURG, MS
FORREST COUNTY

**NEEL-SCHAFER**
Solutions you can build upon

MILL AND OVERLAY PLAN STA. 15+87.69 TO 41+00	
WORKING NUMBER: PP-1	DRAWING NUMBER: 4

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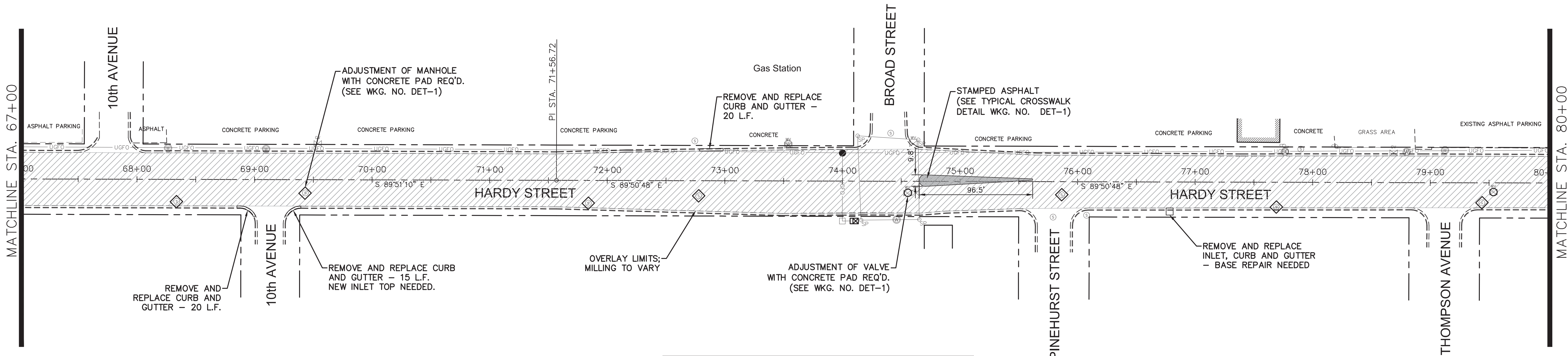
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				DSGN: JLL	DATE: 02/2020
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				QA/QC:	DATE:

CITY OF HATTIESBURG
HATTIESBURG, MS
FORREST COUNTY

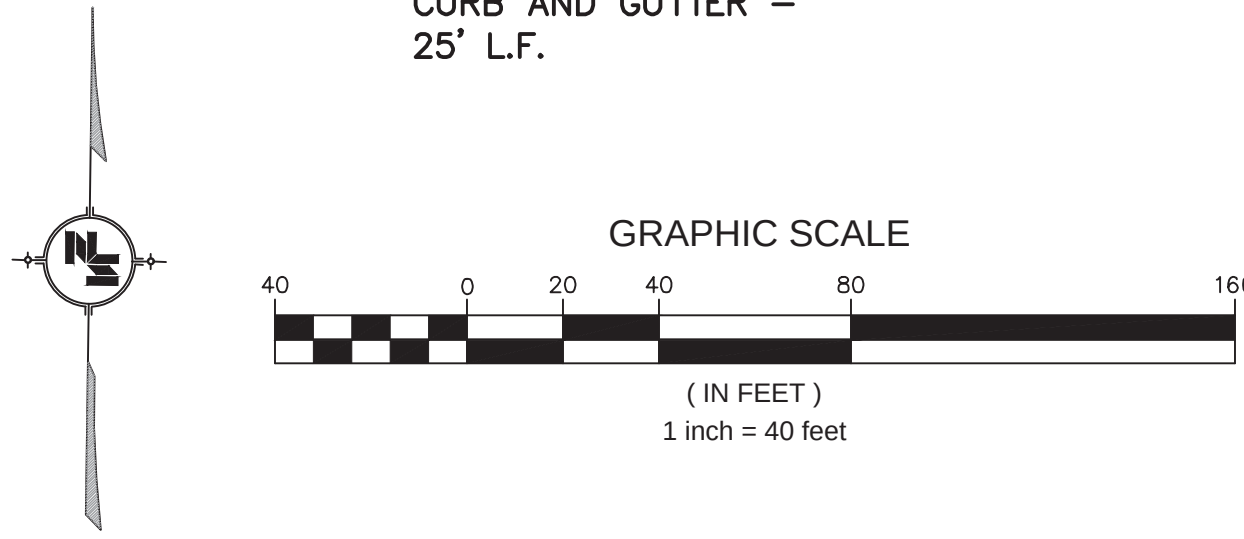
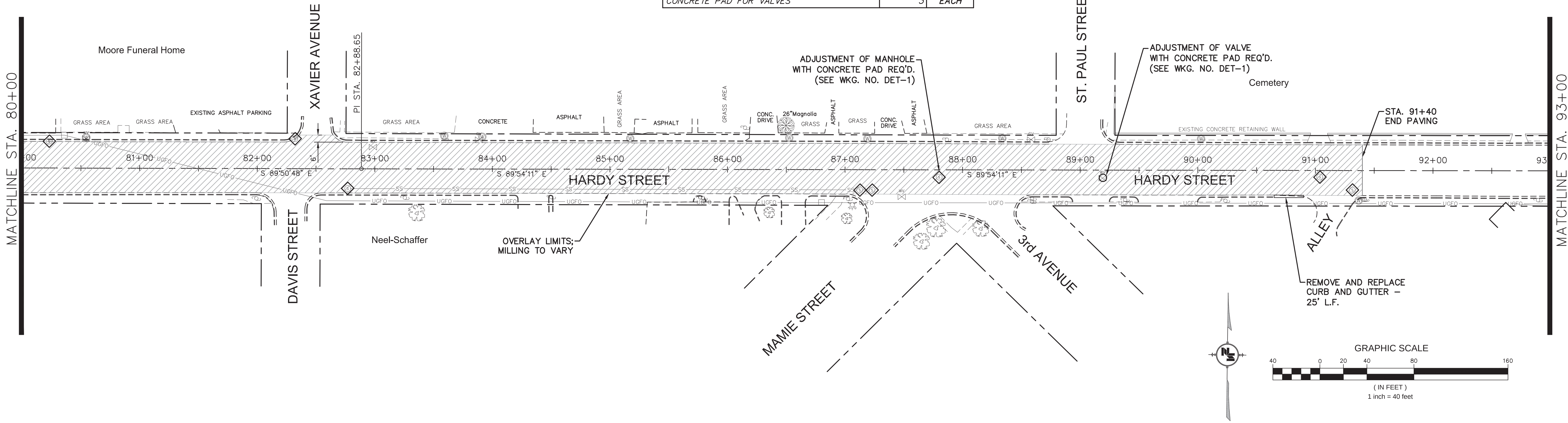
MILL AND OVERLAY PLAN
STA. 41+00 TO 67+00

WORKING NUMBER:
PP-2

DRAWING NUMBER:
5



QUANTITIES		
DESCRIPTION	QUANTITY	UNITS
MILLING	12215	SQ. YD.
ASPHALT OVERLAY	12215	SQ. YD.
STAMPED ASPHALT	542	SQ. FT.
CONCRETE PAD FOR MANHOLES	15	EACH
CONCRETE PAD FOR VALVES	3	EACH



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HARDY STREET PAVING PROJECT

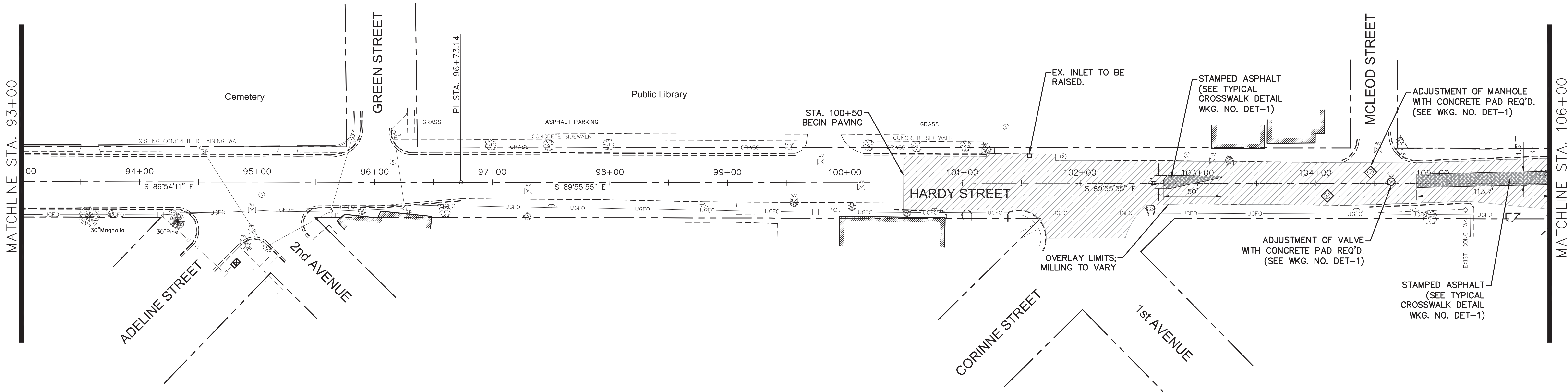
CITY OF HATTIESBURG
HATTIESBURG, MS
FORREST COUNTY



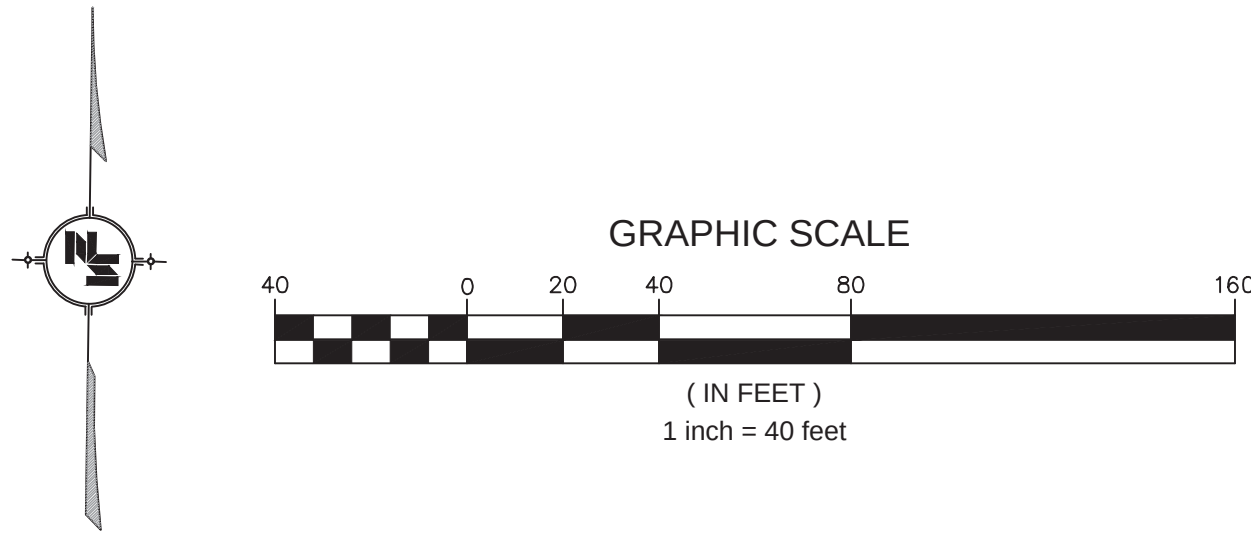
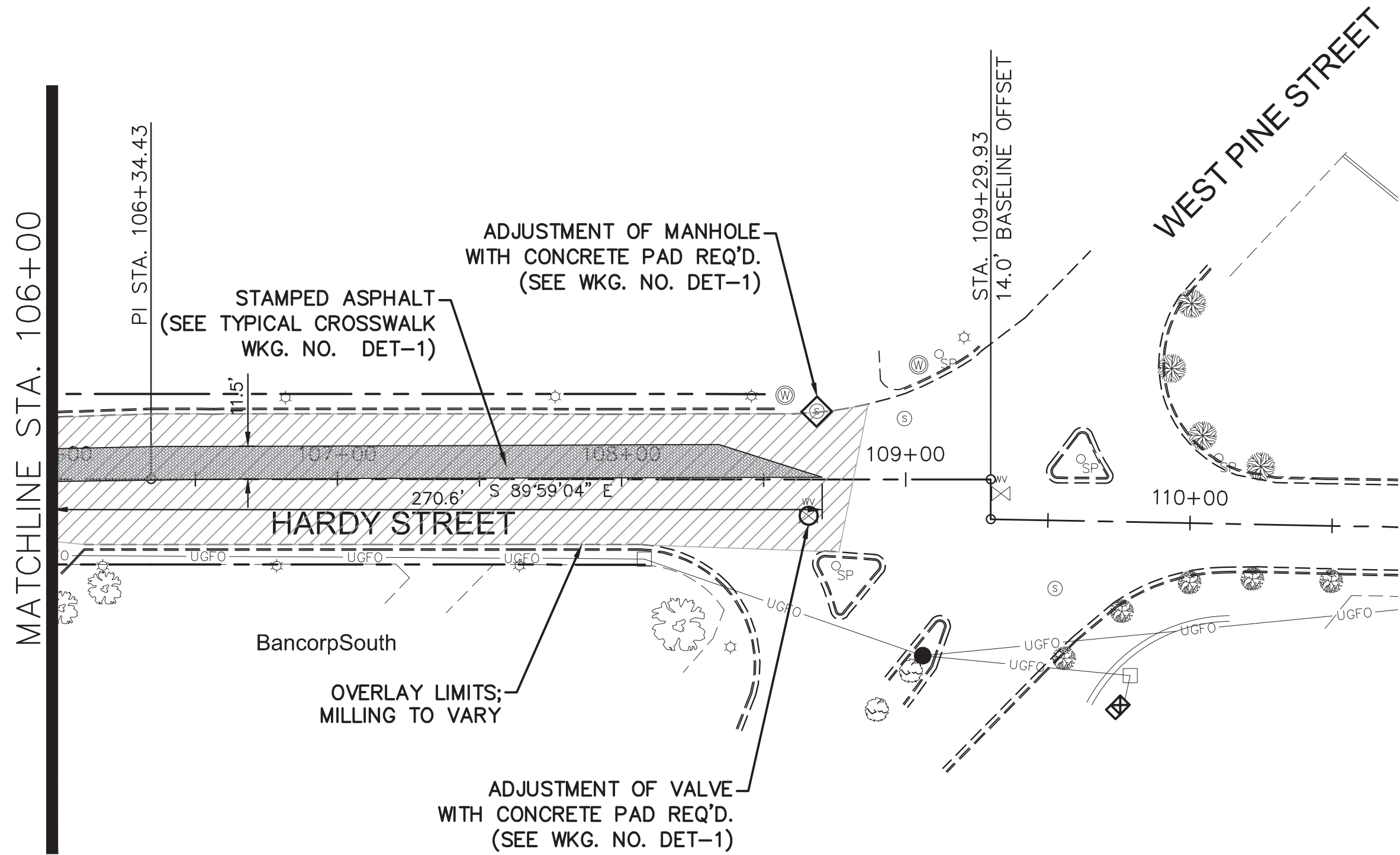
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Solutions you can build upon

MILL AND OVERLAY PLAN STA. 67+00 TO 93+00	
WORKING NUMBER: PP-3	DRAWING NUMBER: 6

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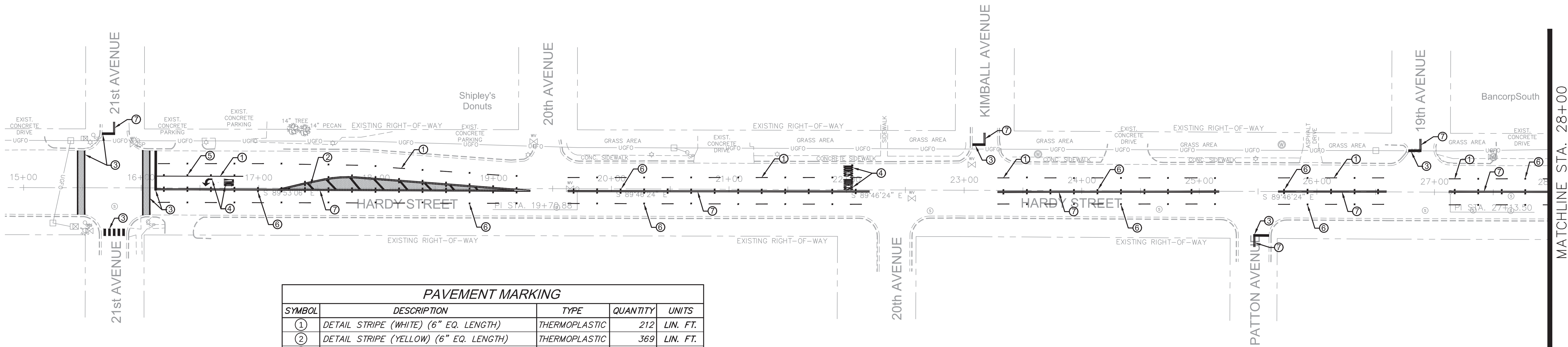


QUANTITIES			JOB TOTAL	
DESCRIPTION	QUANTITY	UNITS	QUANTITY	UNITS
MILLING	4520	SQ. YD.	44745	SQ. YD.
ASPHALT OVERLAY	4520	SQ. YD.	44745	SQ. YD.
STAMPED ASPHALT	4538	SQ. FT.	10659	SQ. FT.
CONCRETE PAD FOR MANHOLES	3	EACH	46	EACH
CONCRETE PAD FOR VALVES	2	EACH	16	EACH

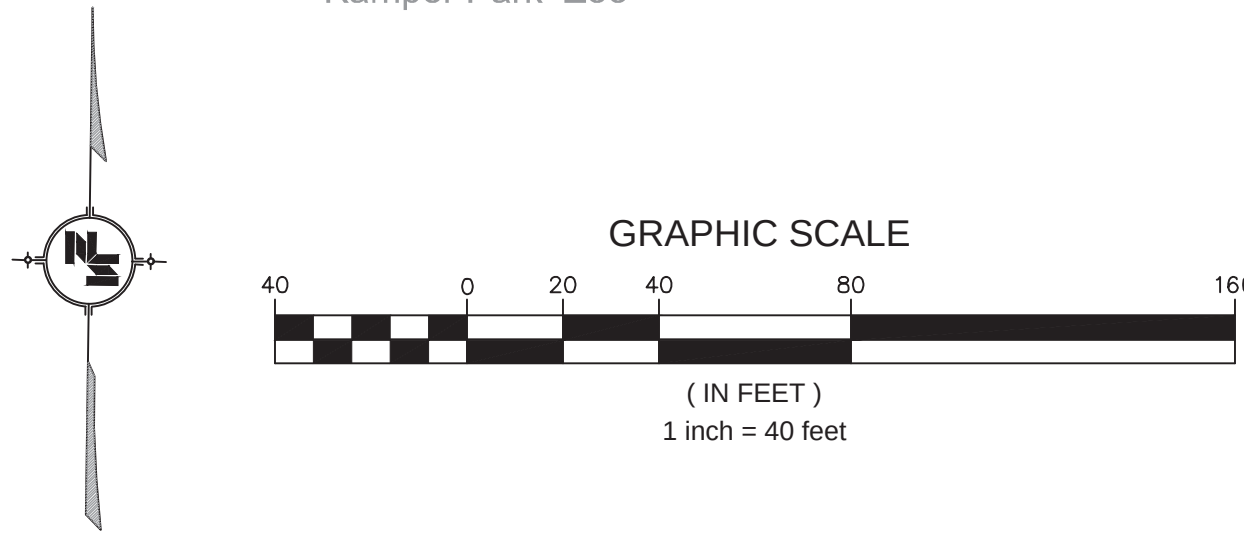
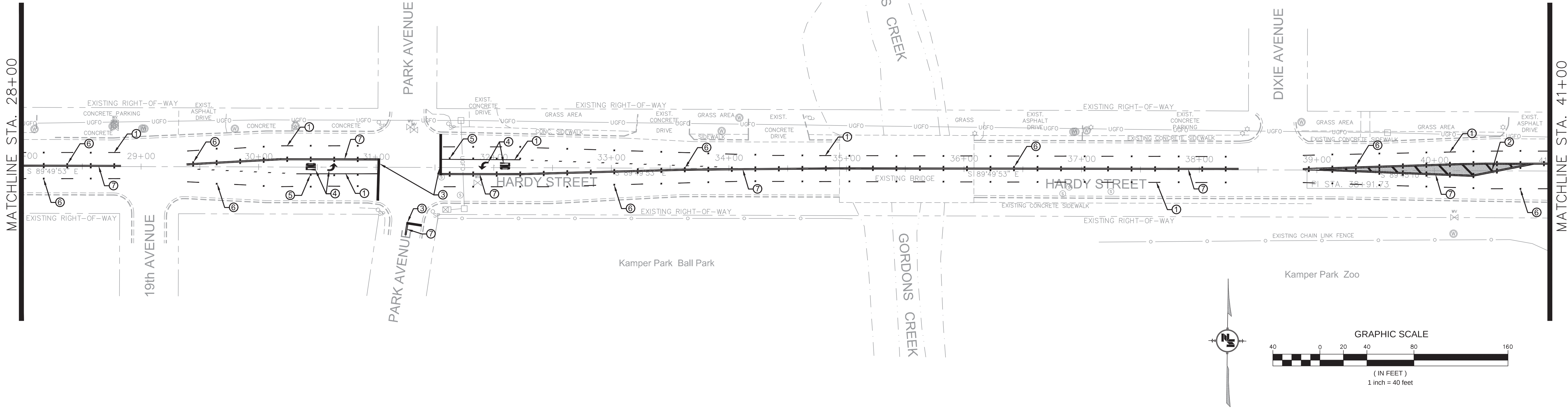


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	NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: 15581				
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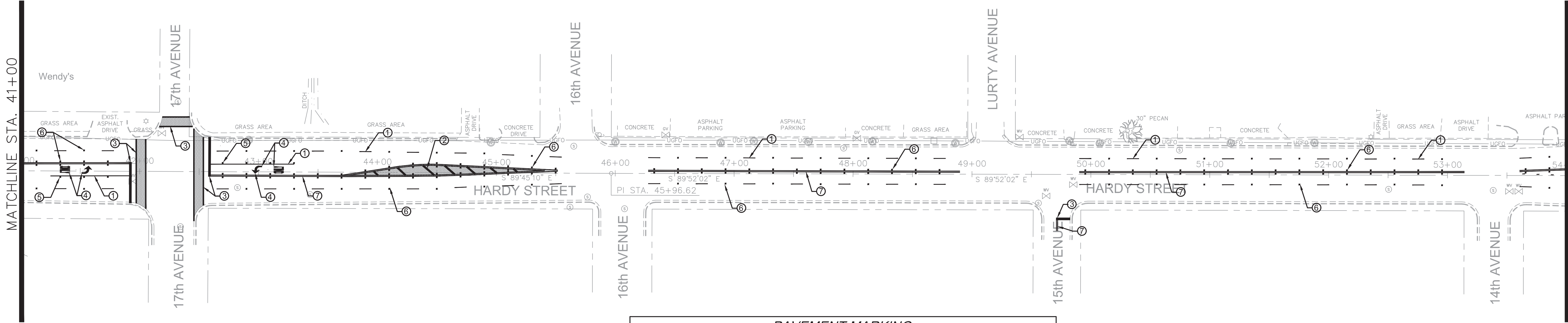


PAVEMENT MARKING				
SYMBOL	DESCRIPTION	TYPE	QUANTITY	UNITS
①	DETAIL STRIPE (WHITE) (6" EQ. LENGTH)	THERMOPLASTIC	212	LIN. FT.
②	DETAIL STRIPE (YELLOW) (6" EQ. LENGTH)	THERMOPLASTIC	369	LIN. FT.
③	LEGEND (WHITE) (LIN. FT.) (6" EQ. LENGTH)	THERMOPLASTIC	1211	LIN. FT.
④	LEGEND (WHITE) (SQ. FT.)	THERMOPLASTIC	192	SQ. FT.
⑤	RED-CLEAR REFLECTIVE RAISED MARKERS	--	11	EACH
⑥	TWO-WAY YELLOW REFLEC. RAISED MARKER	--	344	EACH
⑦	CONTINUOUS STRIPE (YELLOW) (6" EQ. LENGTH)	THERMOPLASTIC	5084	LIN. FT.
⑧	SKIP STRIPE (WHITE) (6" EQ. LENGTH)	THERMOPLASTIC	4574	LIN. FT.

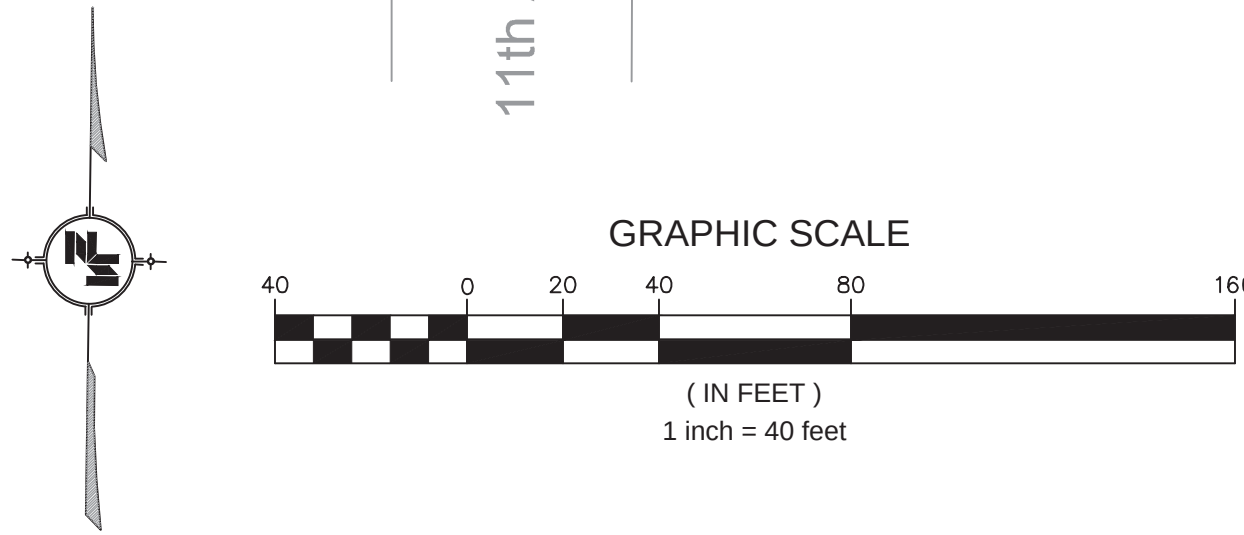
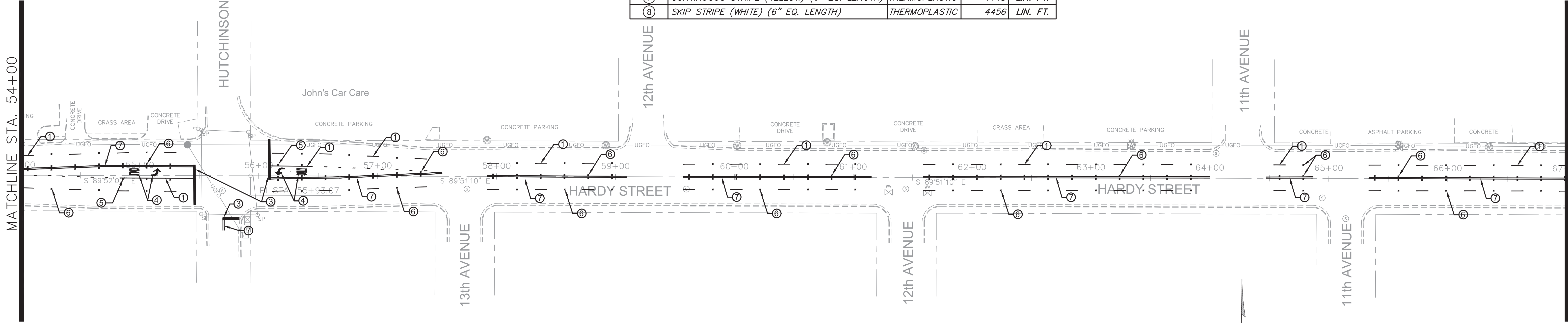


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	NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: 15581			WORKING NUMBER:	DRAWING NUMBER:
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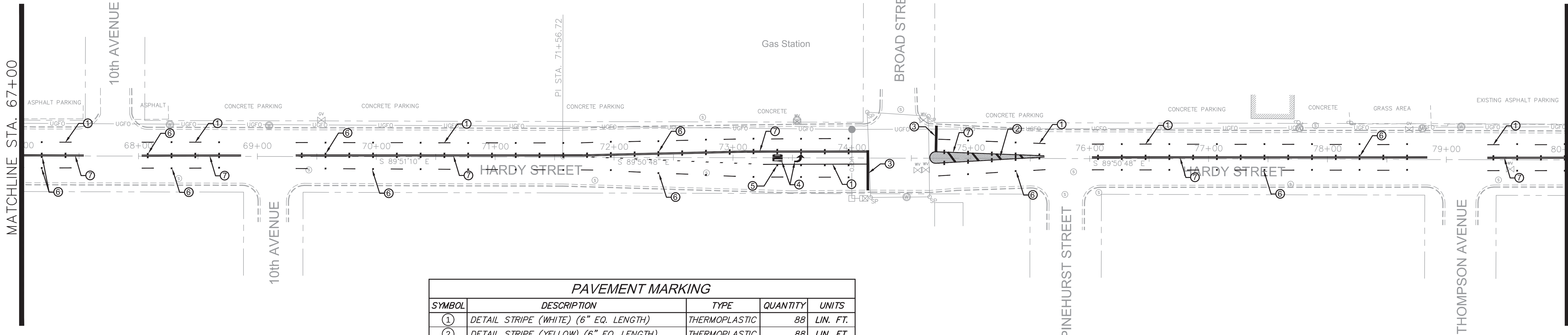


PAVEMENT MARKING				
SYMBOL	DESCRIPTION	TYPE	QUANTITY	UNITS
①	DETAIL STRIPE (WHITE) (6" EQ. LENGTH)	THERMOPLASTIC	237	LIN. FT.
②	DETAIL STRIPE (YELLOW) (6" EQ. LENGTH)	THERMOPLASTIC	173	LIN. FT.
③	LEGEND (WHITE) (LIN. FT.) (6" EQ. LENGTH)	THERMOPLASTIC	1248	LIN. FT.
④	LEGEND (WHITE) (SQ. FT.)	THERMOPLASTIC	154	SQ. FT.
⑤	RED-CLEAR REFLECTIVE RAISED MARKERS	--	12	EACH
⑥	TWO-WAY YELLOW REFLEC. RAISED MARKER	--	314	EACH
⑦	CONTINUOUS STRIPE (YELLOW) (6" EQ. LENGTH)	THERMOPLASTIC	4448	LIN. FT.
⑧	SKIP STRIPE (WHITE) (6" EQ. LENGTH)	THERMOPLASTIC	4456	LIN. FT.

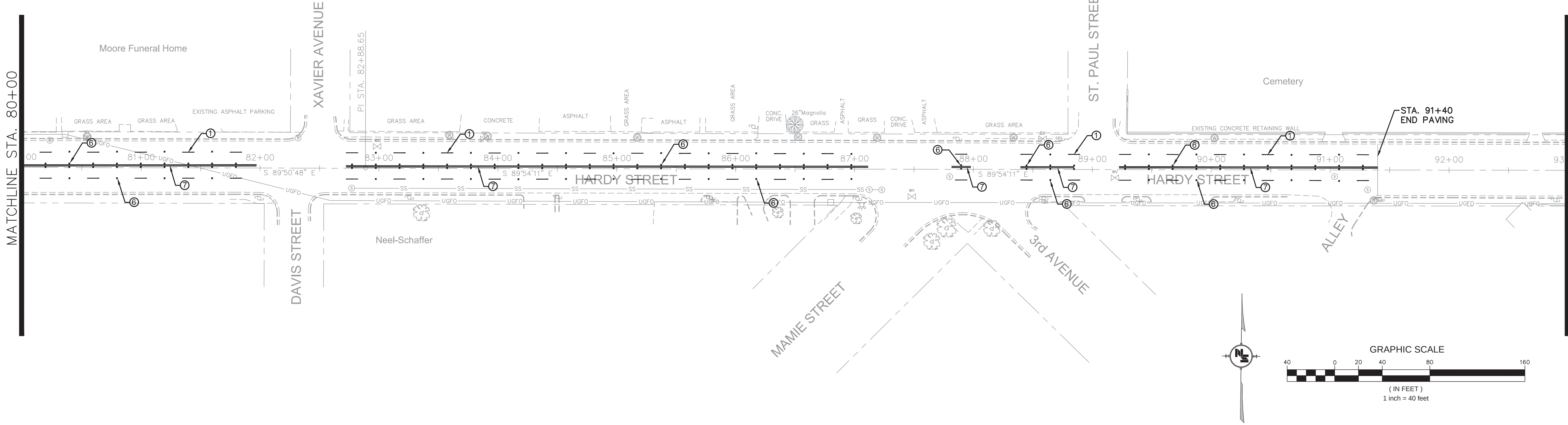


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	NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: 15581			WORKING NUMBER:	DRAWING NUMBER:
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					SURVEYED BY:				
					DSGN: JLL DATE: 02/2020				
					DRWN: MLJ DATE: 02/2020				
					CHKD: DATE:				
					QA/QC: DATE:				



PAVEMENT MARKING				
SYMBOL	DESCRIPTION	TYPE	QUANTITY	UNITS
①	DETAIL STRIPE (WHITE) (6" EQ. LENGTH)	THERMOPLASTIC	88	LIN. FT.
②	DETAIL STRIPE (YELLOW) (6" EQ. LENGTH)	THERMOPLASTIC	88	LIN. FT.
③	LEGEND (WHITE) (LIN. FT.) (6" EQ. LENGTH)	THERMOPLASTIC	224	LIN. FT.
④	LEGEND (WHITE) (SQ. FT.)	THERMOPLASTIC	39	SQ. FT.
⑤	RED-CLEAR REFLECTIVE RAISED MARKERS	--	4	EACH
⑥	TWO-WAY YELLOW REFLEC. RAISED MARKER	--	300	EACH
⑦	CONTINUOUS STRIPE (YELLOW) (6" EQ. LENGTH)	THERMOPLASTIC	3959	LIN. FT.
⑧	SKIP STRIPE (WHITE) (6" EQ. LENGTH)	THERMOPLASTIC	2704	LIN. FT.



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HARDY STREET PAVING PROJECT

CITY OF HATTIESBURG
HATTIESBURG, MS
FORREST COUNTY

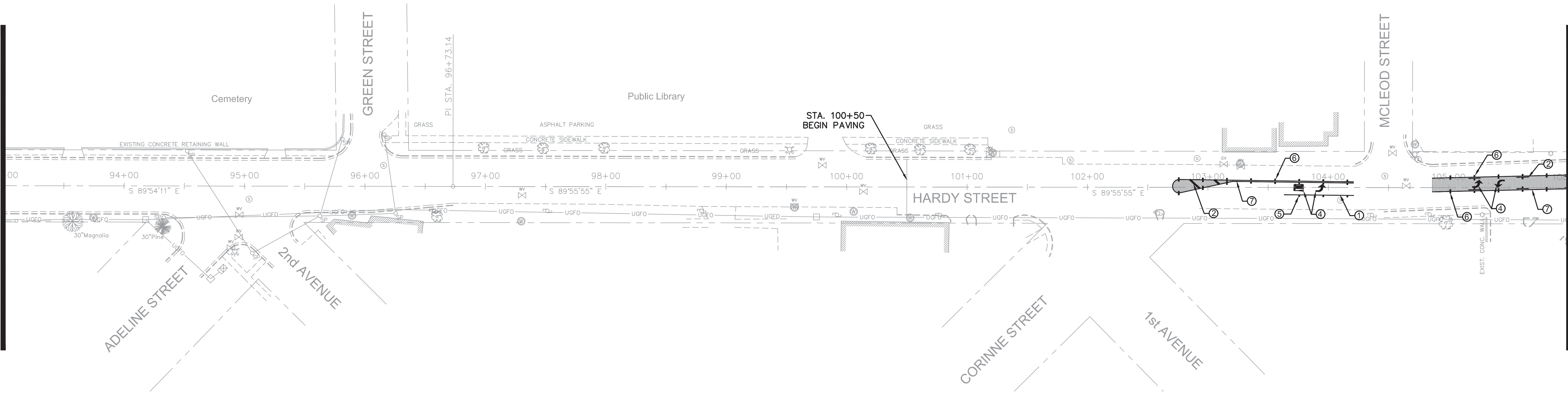


PAVEMENT MARKING PLAN
STA. 67+00 TO 93+00

WORKING NUMBER:
PM-3

DRAWING NUMBER:
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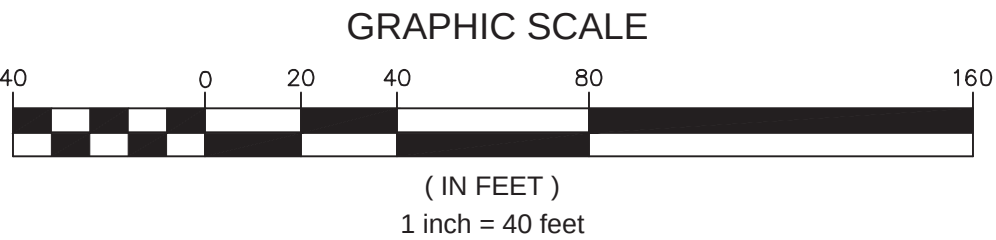
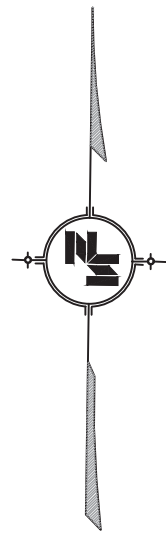
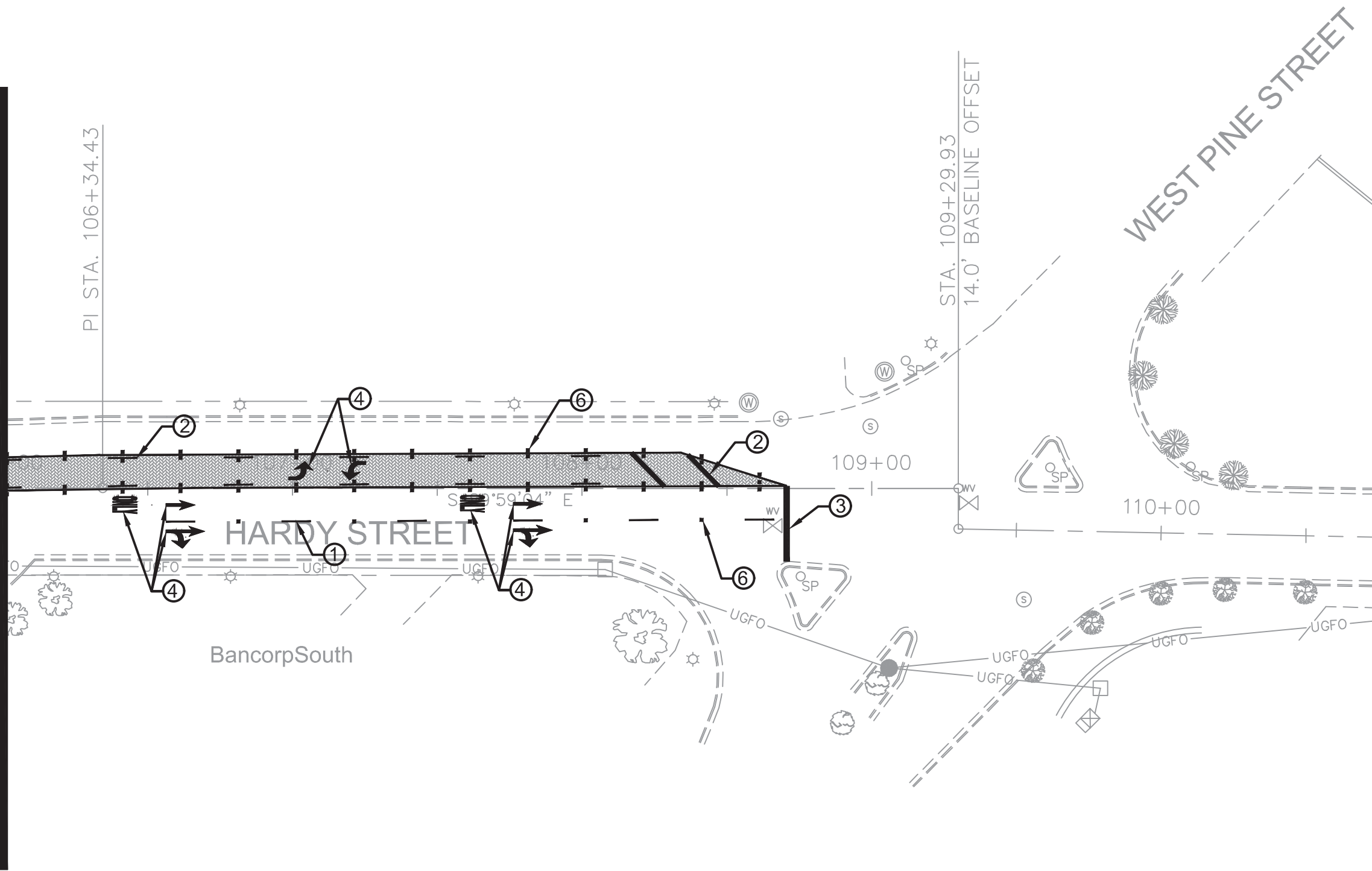
MATCHLINE STA. 93+00



MATCHLINE STA. 106+00

PAVEMENT MARKING					JOB TOTAL	
SYMBOL	DESCRIPTION	TYPE	QUANTITY	UNITS	QUANTITY	UNITS
①	DETAIL STRIPE (WHITE) (6" EQ. LENGTH)	THERMOPLASTIC	58	LIN. FT.	595	LIN. FT.
②	DETAIL STRIPE (YELLOW) (6" EQ. LENGTH)	THERMOPLASTIC	784	LIN. FT.	1414	LIN. FT.
③	LEGEND (WHITE) (LIN. FT.) (6" EQ. LENGTH)	THERMOPLASTIC	104	LIN. FT.	2787	LIN. FT.
④	LEGEND (WHITE) (SQ. FT.)	THERMOPLASTIC	228	SQ. FT.	613	SQ. FT.
⑤	RED-CLEAR REFLECTIVE RAISED MARKERS	--	3	EACH	30	EACH
⑥	TWO-WAY YELLOW REFLEC. RAISED MARKER	--	103	EACH	1061	EACH
⑦	CONTINUOUS STRIPE (YELLOW) (6" EQ. LENGTH)	THERMOPLASTIC	1079	LIN. FT.	14570	LIN. FT.
⑧	SKIP STRIPE (WHITE) (6" EQ. LENGTH)	THERMOPLASTIC	240	LIN. FT.	11974	LIN. FT.

MATCHLINE STA. 106+00



NOTICE TO DRAWING HOLDER

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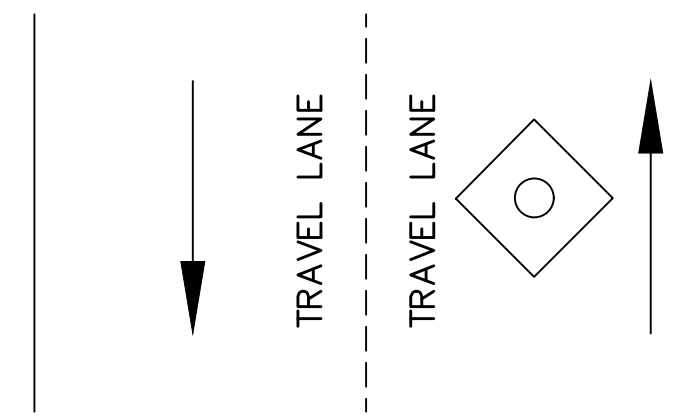
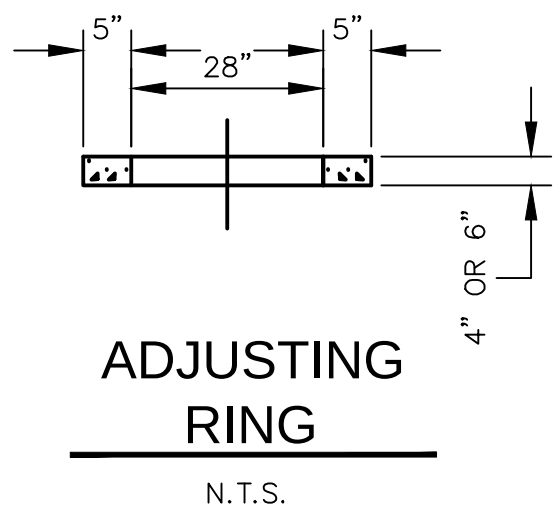
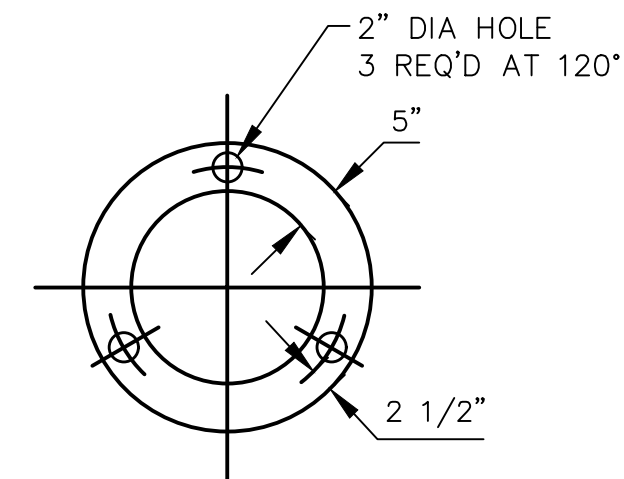
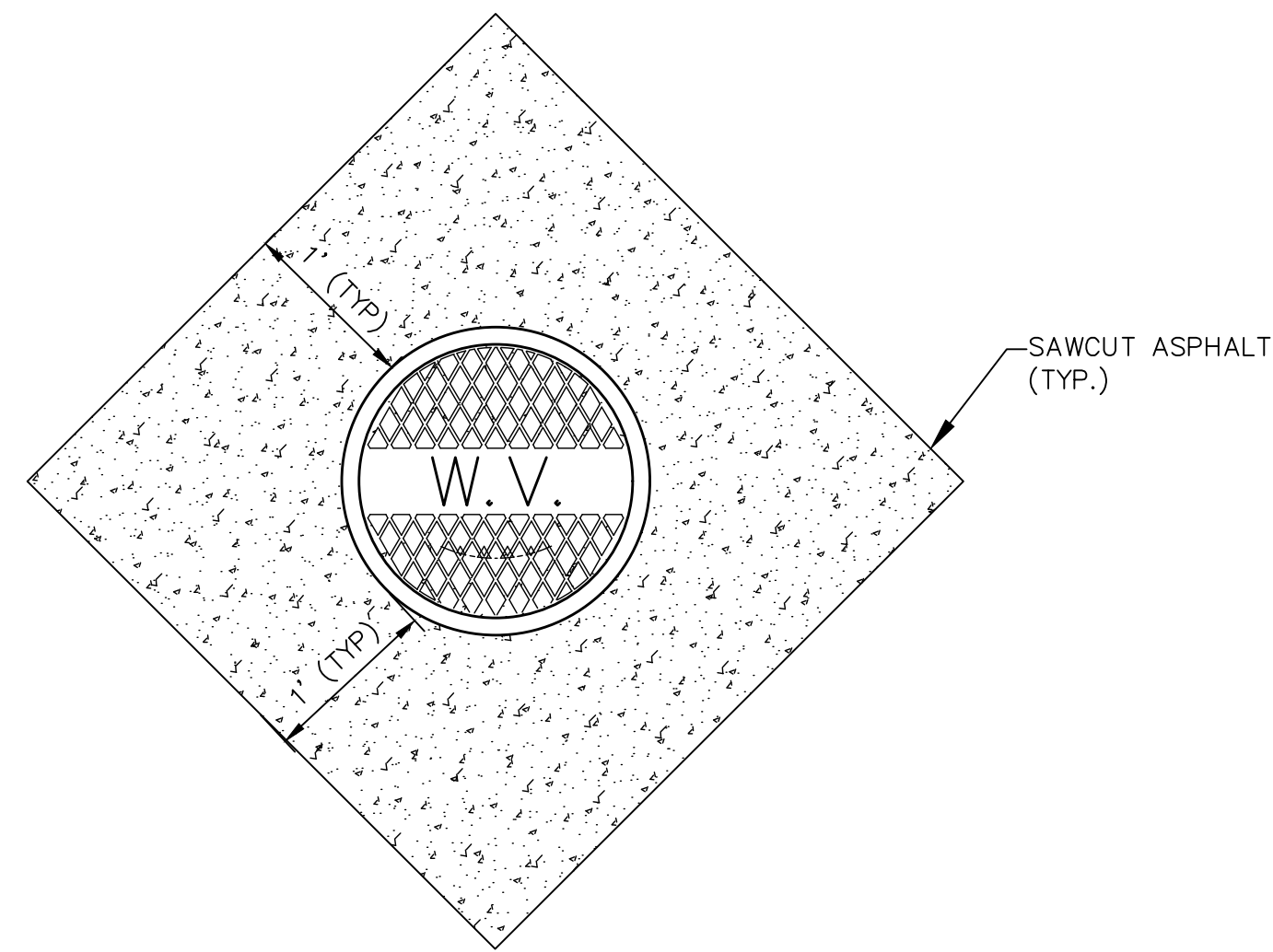
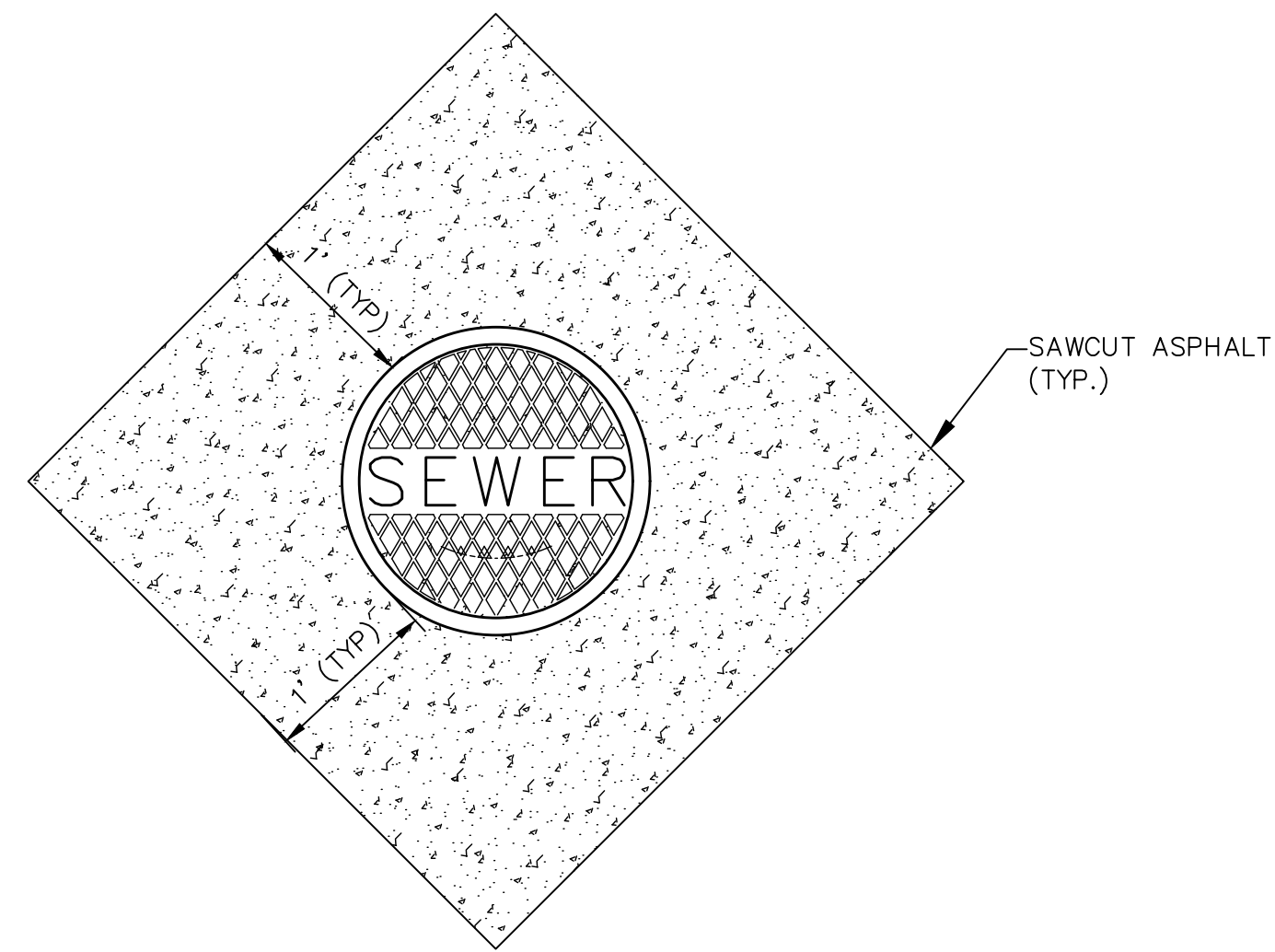
HARDY STREET PAVING PROJECT

CITY OF HATTIESBURG
HATTIESBURG, MS
FORREST COUNTY



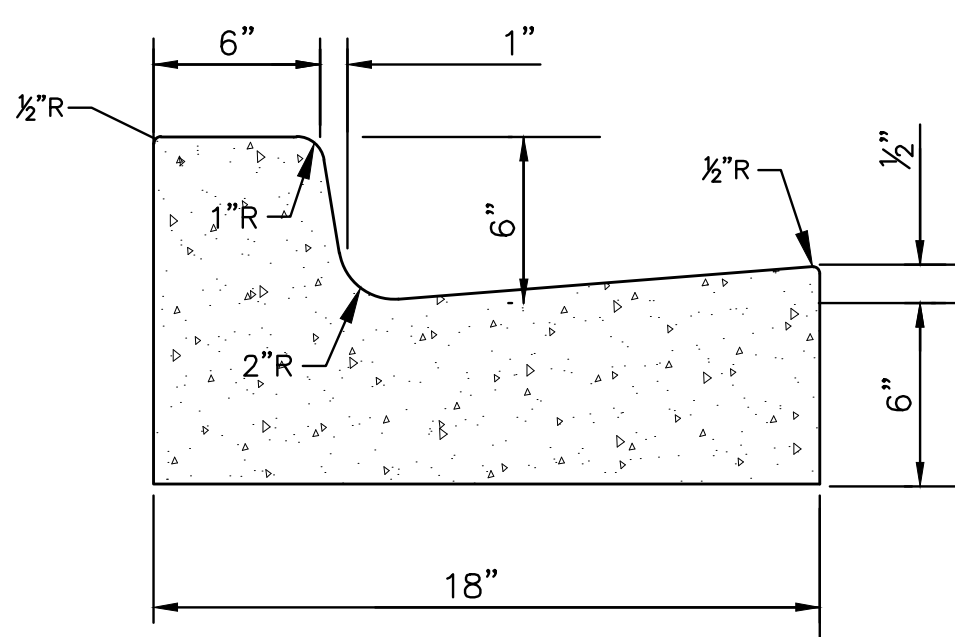
PAVEMENT MARKING PLAN
STA. 93+00 TO 108+30.14

WORKING NUMBER: PM-4	DRAWING NUMBER: 11
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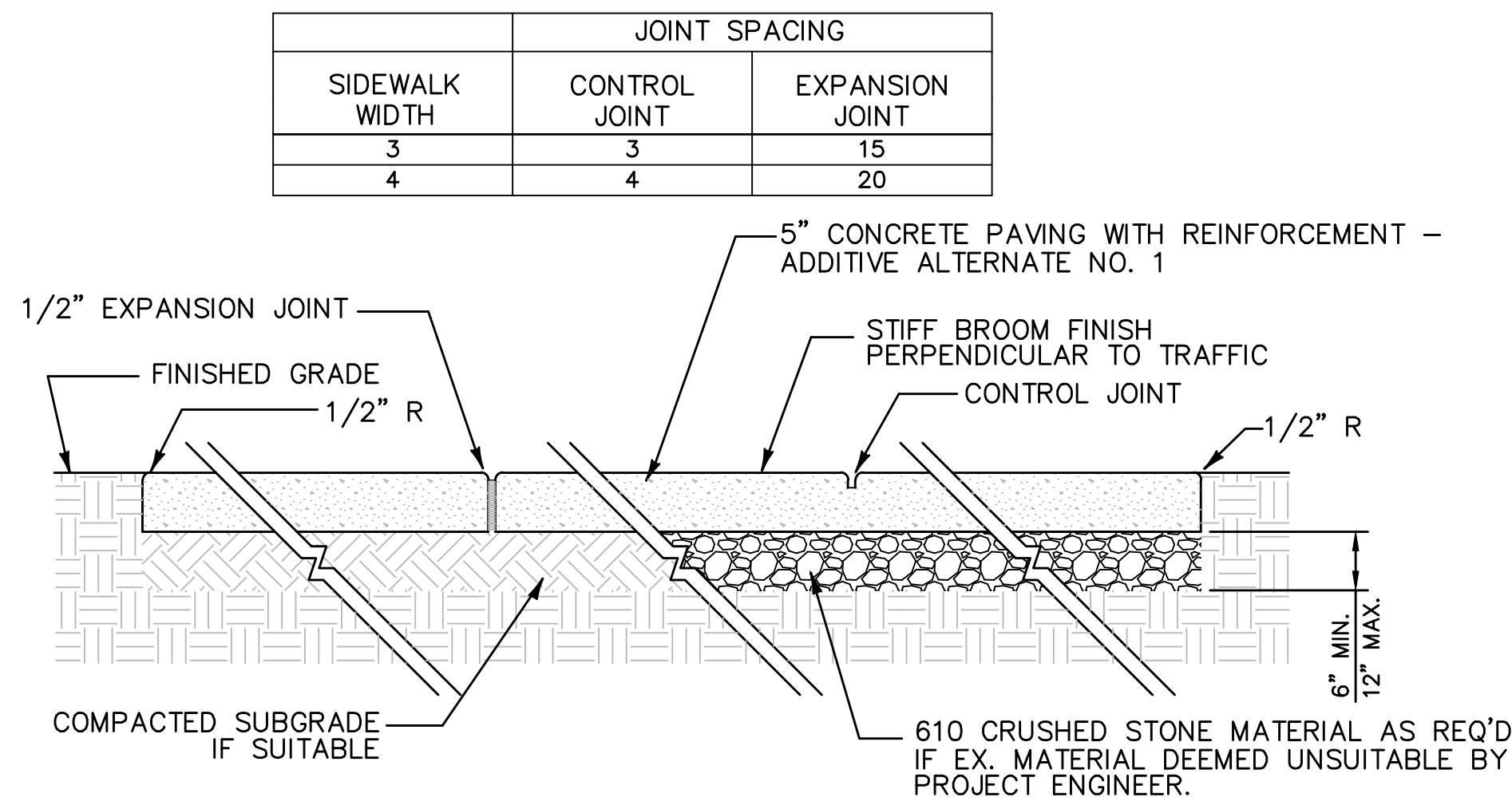
CONCRETE PAD FOR MANHOLES AND VALVES

- NOTE:
1. CONCRETE PAD TO BE 12" THICK.
 2. #5 REBAR TO BE PLACED 3" FROM TOP OF CONCRETE PAD.
 3. CONCRETE TO BE PLACED IN A DIAMOND SHAPE ALONG TRAVEL LANE. (SEE ABOVE)
 4. PADS TO BE INSTALLED AFTER NEW ASPHALT IS IN PLACE. PAD AND LID TO MATCH NEW ASPHALT CROSS-SLOPE.



TYPE "1" MODIFIED COMBINATION CURB & GUTTER

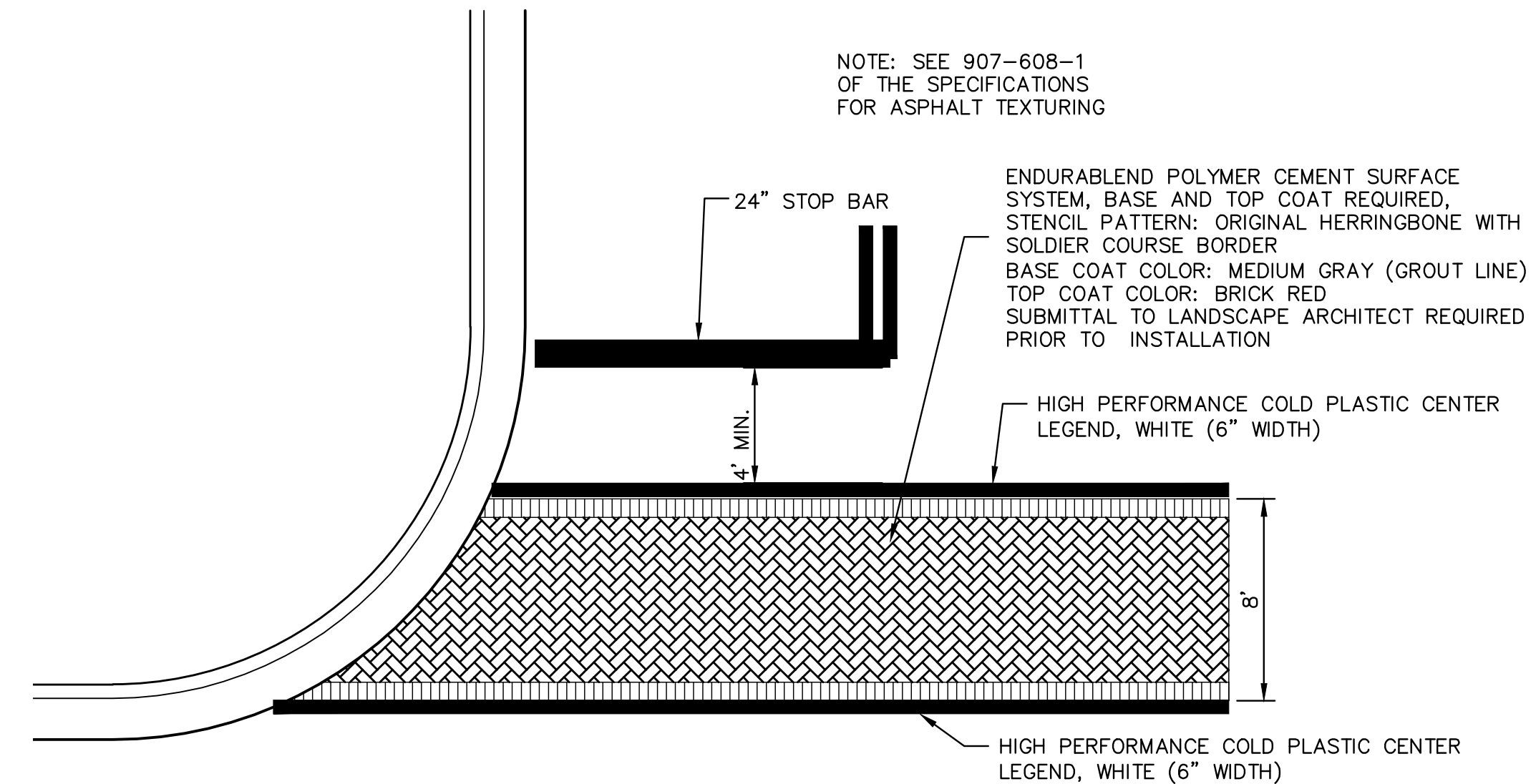
NOT TO SCALE



- NOTES:
1. 1/2" EXPANSION JOINT CONFORMING TO ASTM D1751. TOP OF JOINT SHALL BE SEALED w/ 1/2" TAR MODIFIED URETHANE SEALANT. PLACE EXPANSION JOINT AS SHOWN IN TABLE ABOVE.
 2. HAND TOOLED CONTROL JOINTS W/ 1/2" RADIUS SPACED AS SHOWN ABOVE.
 3. ALL SUBGRADE SOILS FOR SIDEWALK SHALL BE COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY.

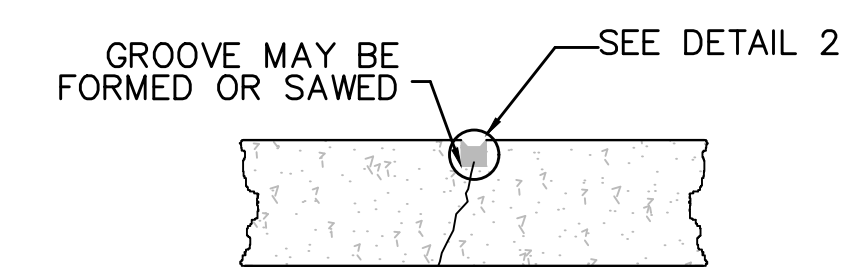
TYPICAL SIDEWALK DETAIL

NOT TO SCALE



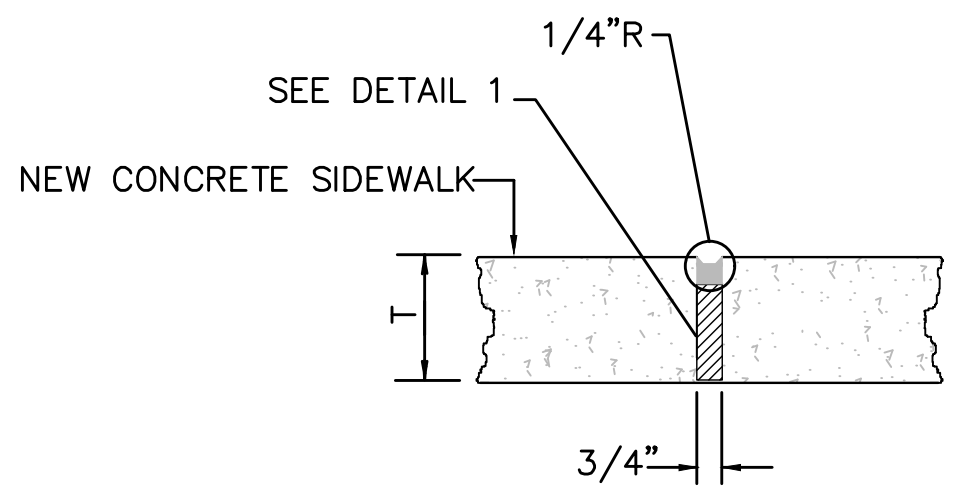
TYPICAL CROSSWALK DETAIL

NOT TO SCALE



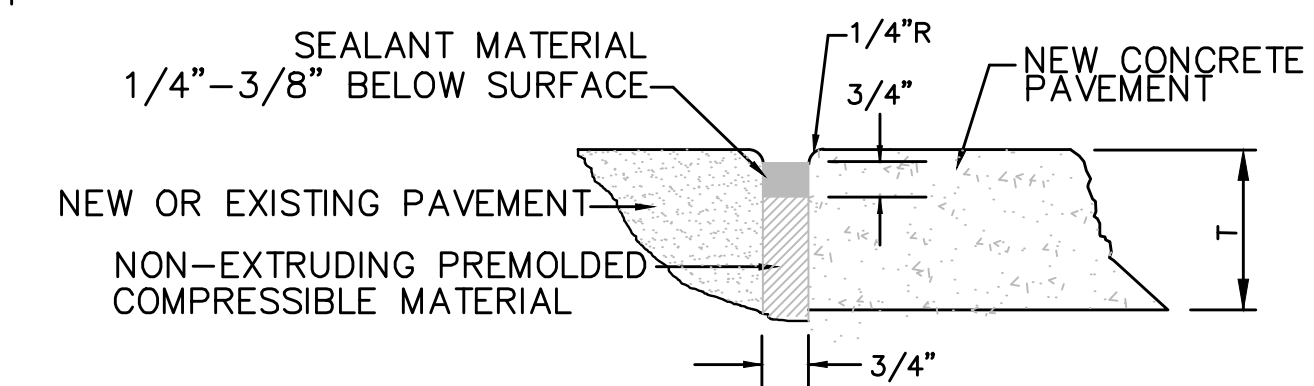
TYPE "A" - CONTROL JOINT

NOT TO SCALE



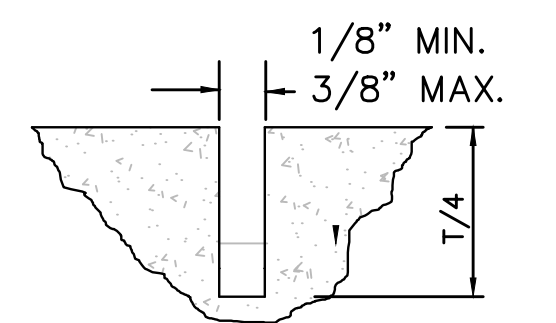
TYPE "B" - EXPANSION JOINT

NOT TO SCALE



DETAIL 1 - EXPANSION JOINTS

NOT TO SCALE



DETAIL 2 - CONTROL JOINT

NOT TO SCALE

7/23/2020 3:30 PM c:\15580\Hattiesburg\15581 task #81 hardy st. resurfacing\design\plans\15581_details.dwg

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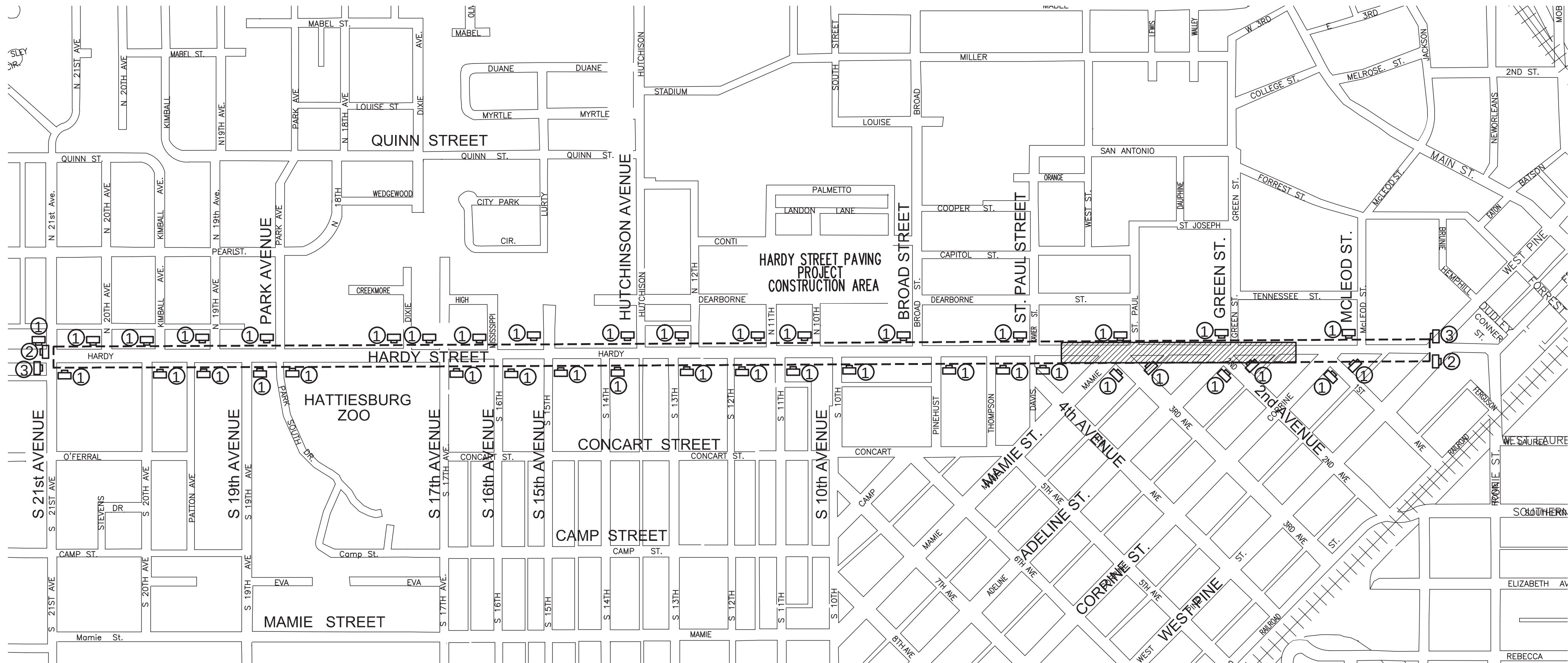
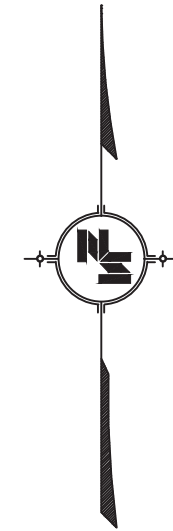
HARDY STREET PAVING PROJECT

CITY OF HATTIESBURG
HATTIESBURG, MS
FORREST COUNTY



TYPICAL DETAILS

WORKING NUMBER:	DRAWING NUMBER:
DET-1	12



LEGEND

- ①

ROAD
WORK
AHEAD

W20-1
36x36

MOUNTED ON U-SECTION POST
- ②

END
ROAD WORK

G20-2a
36x18

MOUNTED ON TYPE III BARRICADES
- ③

ROAD
WORK
NEXT
2 MILES

G20-1
36x36

MOUNTED ON TYPE III BARRICADES
- D

WORK ZONE SIGN

NOTES:

1. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK IS TO BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.
2. CONTRACTOR TO MAINTAIN ACCESS TO LOCAL BUSINESSES AND HOMEOWNERS AT ALL TIMES DURING CONSTRUCTION.
3. THE LOCATION AND SPACING OF SIGNS ARE APPROXIMATE AND MAY BE ADJUSTED AS NECESSARY TO FIT FIELD CONDITIONS.
4. FLUORESCENT ORANGE SHEETING SHALL BE BE USED ON ALL CONSTRUCTION AND TRAFFIC CONTROL SIGNS EXCEPT FOR THOSE DESIGNATED IN THE PLANS TO BE BLACK LEGEND AND BORDER ON WHITE BACKGROUND.
5. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CURRENT EDITION).
6. SEE SHEET TCP-2 FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.

NOTICE TO DRAWING HOLDER

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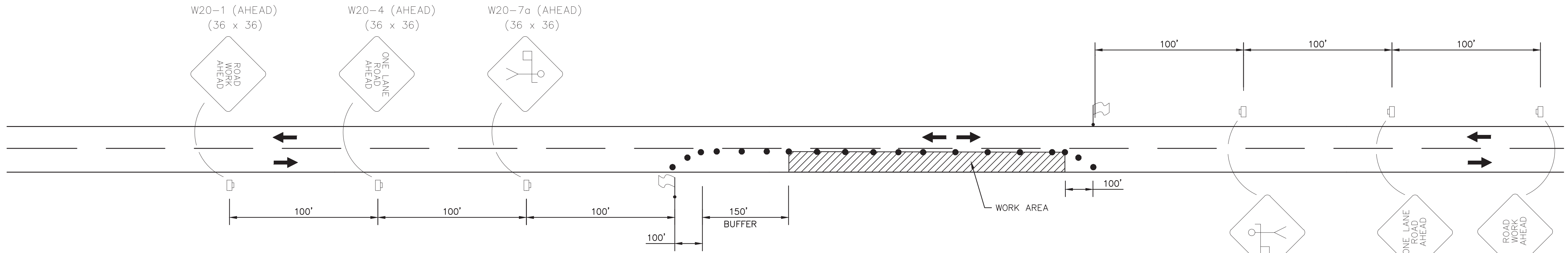
HARDY STREET PAVING PROJECT

CITY OF HATTIESBURG
HATTIESBURG, MS
FORREST COUNTY



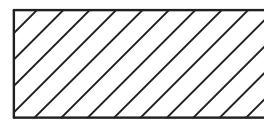
TRAFFIC CONTROL PLAN

WORKING NUMBER: TCP-1	DRAWING NUMBER: 13
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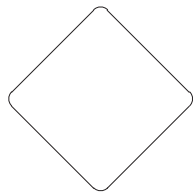


ONE-LANE CLOSURE OF TWO-WAY TRAFFIC
(WITH FLAGGER)
NOT TO SCALE

SYMBOLS



WORK AREA



TRAFFIC CONTROL SIGN



WORK ZONE SIGN



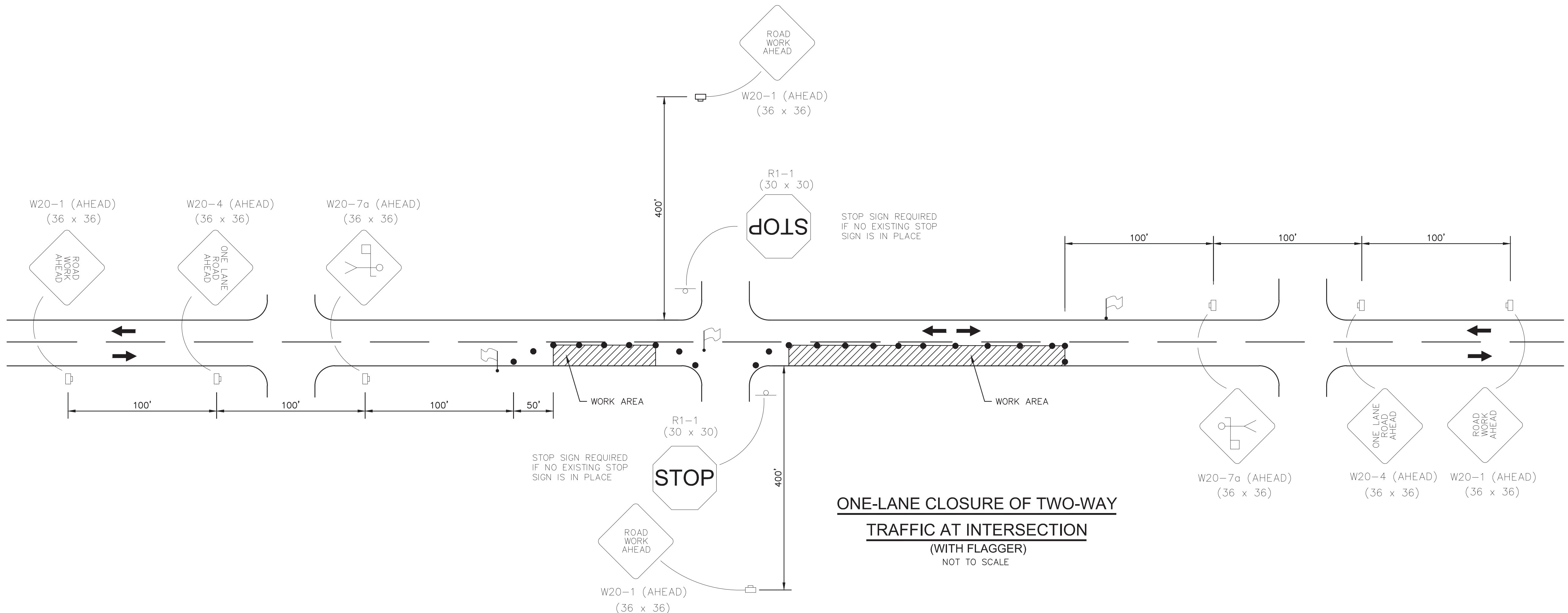
STOP SIGN



TRAFFIC CONE OR REFLECTIVE
PLASTIC DRUM



LOCATION OF FLAGGER



ONE-LANE CLOSURE OF TWO-WAY
TRAFFIC AT INTERSECTION
(WITH FLAGGER)
NOT TO SCALE

GENERAL NOTES:

1. CONTRACTOR SHALL SET UP ALL TRAFFIC CONTROL DEVICES AND SIGNS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION WORK.
2. WORK OPERATIONS SHALL BE CONFINED TO ONE TRAVEL LANE, LEAVING THE OPPOSING TRAVEL LANE OPEN TO TRAFFIC.
3. ALL VEHICLES, EQUIPMENT, WORKERS (EXCEPT FLAGGERS) AND THEIR ACTIVITIES ARE RESTRICTED AT ALL TIMES TO ONE SIDE OF THE ROADWAY.
4. FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES.
5. THE CONTRACTOR SHALL PROVIDE ACCESS (INGRESS AND EGRESS) TO LOCAL BUSINESSES AND HOMEOWNERS AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR IS REQUIRED TO NOTIFY BUSINESSES AND HOMEOWNERS 48 HOURS IN ADVANCE OF ACCESS RESTRICTIONS.
6. CHANNELIZING DEVICES SHALL BE A MINIMUM HEIGHT OF 24".
7. DIAMOND SHAPED TRAFFIC CONTROL SIGNS SHALL BE A MINIMUM OF 36" X 36".
8. SPACING OF CHANNELIZING DEVICES ALONG LANE LINE AND WORK ZONE TO BE EQUAL TO THE POSTED SPEED (M.P.H.) X 1 IN FEET. (EXAMPLE 35 M.P.H. X 1 = 35')
9. WHEN THERE IS NO EXISTING HAZARD OR AT THE END OF THE WORK DAY, ALL SIGNS SHALL BE COVERED OR REMOVED AND ALL CHANNELIZING DEVICES SHALL BE MOVED TO THE SHOULDER EDGE.
10. WHEN THE WORK ZONE IS STATIONARY, THE W20-7a SIGN SHOULD BE PLACED 200 FEET IN ADVANCE OF THE FLAGGER AND SHOULD INDICATE 200' AS THE DISTANCE.
11. ARROWS DENOTE DIRECTION OF TRAFFIC ONLY AND DO NOT REFLECT PAVEMENT MARKINGS.
12. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT.
13. DISTANCES BETWEEN SIGNS ARE APPROXIMATE. SIGN SPACING SHOULD BE ADJUSTED FOR CURVES, HILLS, INTERSECTIONS, DRIVEWAYS, ETC., TO IMPROVE VISIBILITY.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THROUGH AND LOCAL TRAFFIC IN ACCORDANCE WITH THE TRAFFIC CONTROL PLAN AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CURRENT EDITION).

NOTICE TO DRAWING HOLDER

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				DRWN: MLJ	DATE: 02/2020
				CHKD:	DATE:
				QA/QC:	DATE:

HARDY STREET PAVING PROJECT

CITY OF HATTIESBURG
HATTIESBURG, MS
FORREST COUNTY



TRAFFIC CONTROL PLAN WITH
FLAGGER (ONE-LANE CLOSURE
OF TWO-WAY TRAFFIC)

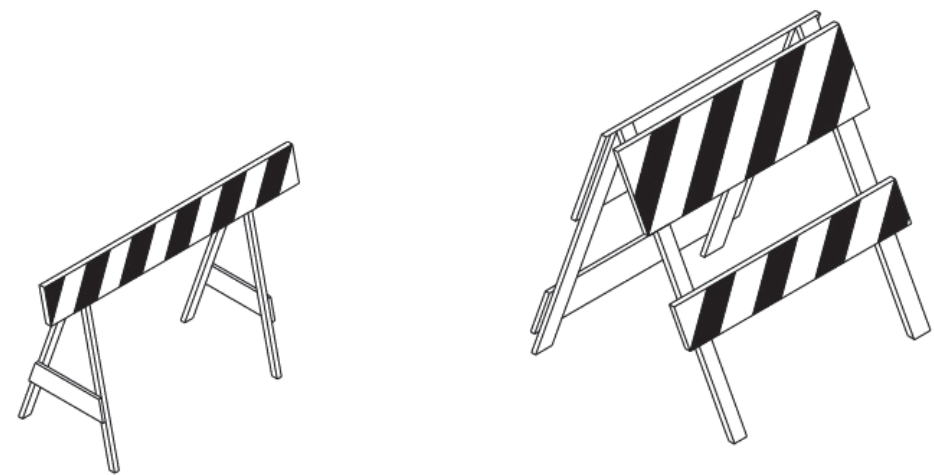
WORKING NUMBER:
TCP-2

DRAWING NUMBER:
14

ITEMS OF SUMMARY TRAFFIC REQUIRED CONTROL																				
WORKING NUMBER	PHASE OF CONST.	TEMPORARY TRAFFIC STRIPE						BARRICADES						TRAFFIC CONTROL SIGNS						
		PAINT						TYPE I		TYPE II		TYPE III		W20-1	G20-2a	G20-1				
		CONTINUOUS		SKIP		DETAIL	LEGEND	SINGLE	DOUBLE	SINGLE	DOUBLE	SINGLE	DOUBLE							
		YELLOW		WHITE		WHITE	WHITE	FACE	FACE	FACE	FACE	FACE	FACE							
TCP-1	1	14570		11974		595	1393							40	2	2				
	2	14570		11974		595	1393													

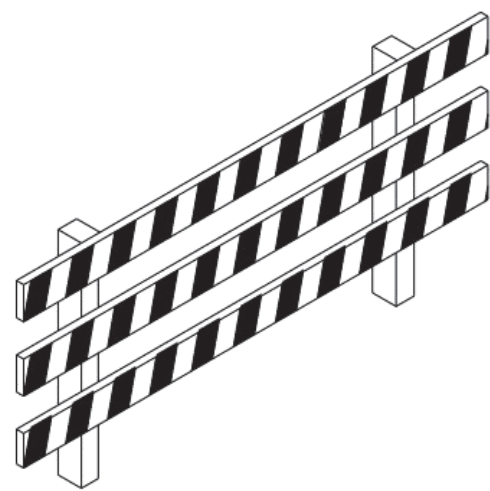
ALL TRAFFIC CONTROL ITEMS SHALL BE PAID FOR UNDER MAINTENANCE OF TRAFFIC.

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	NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: 15581							
					FILENAME: 15581_Traffic.dwg							
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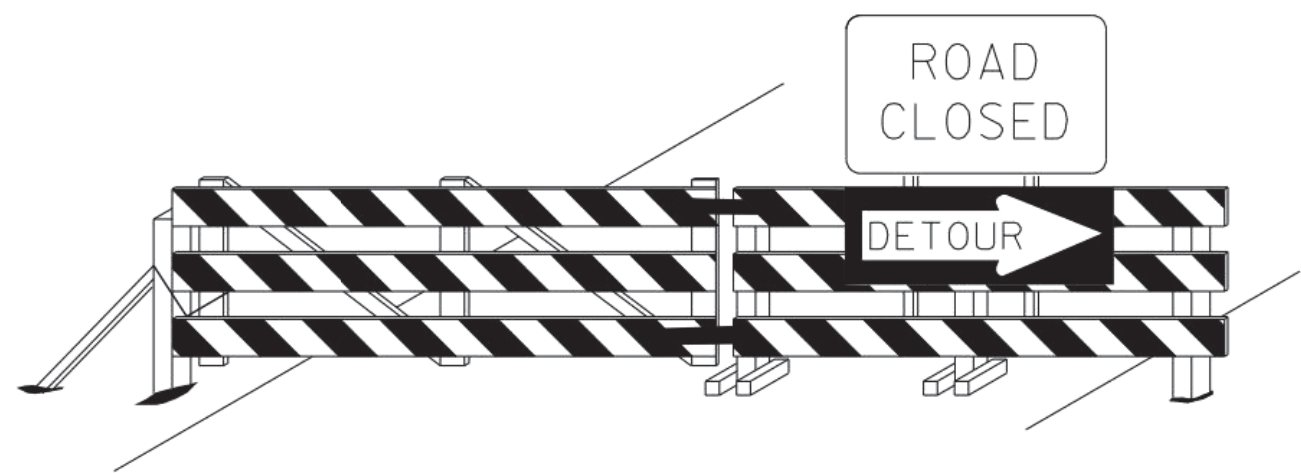


TYPE I

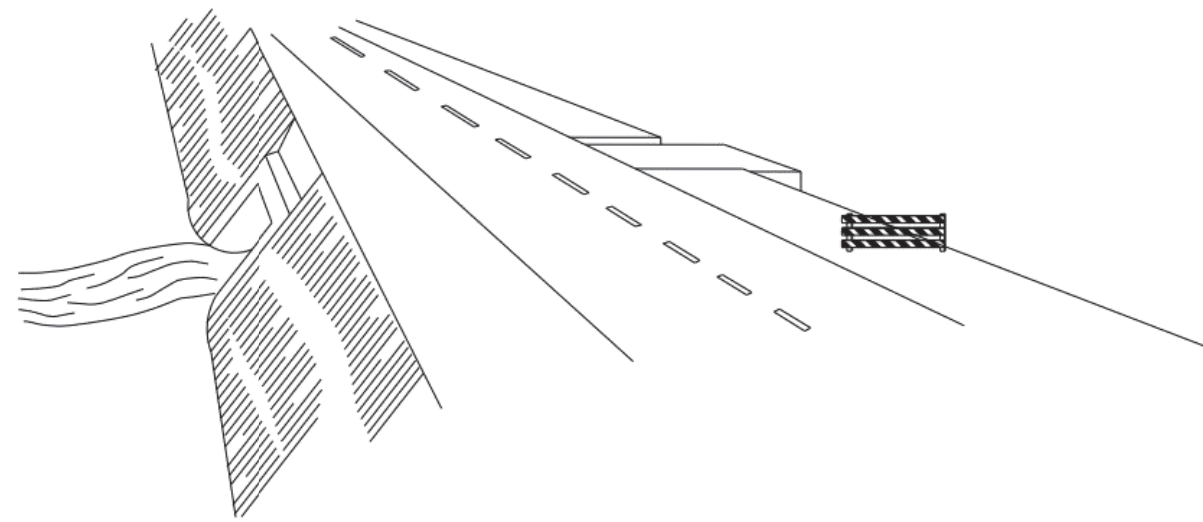
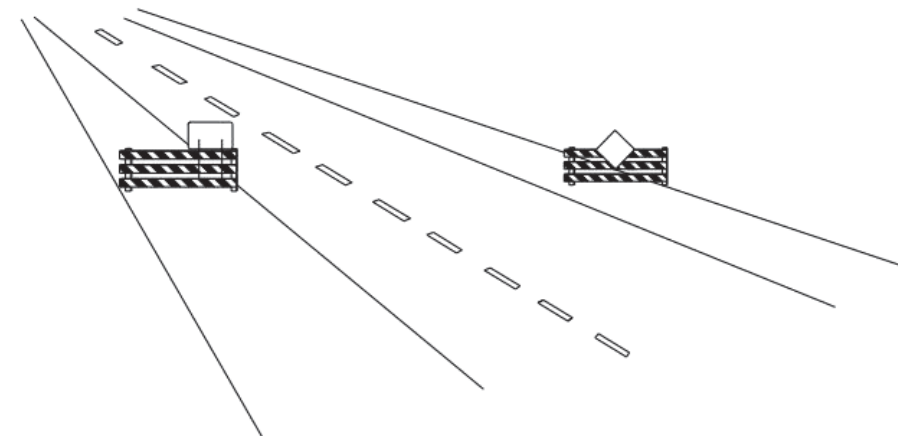
TYPE II



TYPE III



BARRICADE CLOSING A ROAD



STANDARD BARRICADES

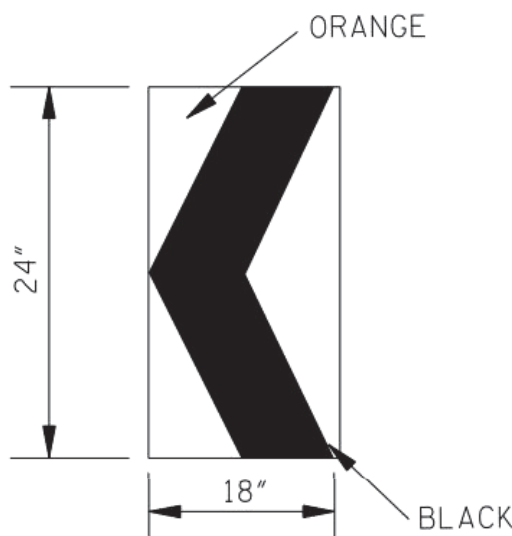
1. A TYPE I BARRICADE CONSISTS OF ONE (1) HORIZONTAL RAIL SUPPORTED BY A DEMOUNTABLE FRAME OR A LIGHT "A" FRAME. A TYPE I BARRICADE NORMALLY WOULD BE USED ON CONVENTIONAL ROADS OR URBAN STREETS AND ARTERIALS.
2. A TYPE II BARRICADE CONSISTS OF TWO (2) HORIZONTAL RAILS ON A LIGHT "A" FRAME. TYPE II BARRICADES ARE INTENDED FOR USE ON EXPRESSWAYS AND FREEWAYS AND OTHER HIGH-SPEED ROADWAYS.
3. TYPE I AND TYPE II BARRICADES ARE INTENDED FOR USE WHERE THE HAZARD IS RELATIVELY SMALL AS, FOR EXAMPLE, ON CITY STREETS, OR FOR THE MORE OR LESS CONTINUOUS DELIMITING OF A RESTRICTED ROADWAY, OR FOR TEMPORARY DAYTIME USE.
4. A TYPE III BARRICADE CONSISTS OF THREE (3) HORIZONTAL RAILS SUPPORTED BY FIXED POSTS, A RIGID SKID, A HEAVY DEMOUNTABLE FRAME OR A HEAVY, HINGED "A" FRAME.
5. TYPE III BARRICADES ARE INTENDED FOR USE ON CONSTRUCTION AND MAINTENANCE PROJECTS AS WING BARRICADES AND AT ROAD CLOSURES, WHERE THEY MUST REMAIN IN PLACE FOR EXTENDED PERIODS.
6. THE MARKING FOR BARRICADE RAILS SHALL BE ORANGE AND WHITE (SLOPING DOWNWARD AT AN ANGLE OF 45° IN THE DIRECTION TRAFFIC IS TO PASS).
7. DO NOT PLACE SANDBAGS OR OTHER DEVICES TO PROVIDE MASS ON THE BOTTOM RAIL THAT WILL BLOCK VIEW OR RAIL FACE.
8. FOR ADDITIONAL INFORMATION OR DETAILS, SEE MUTCD, LATEST EDITION.

BARRICADE CHARACTERISTICS

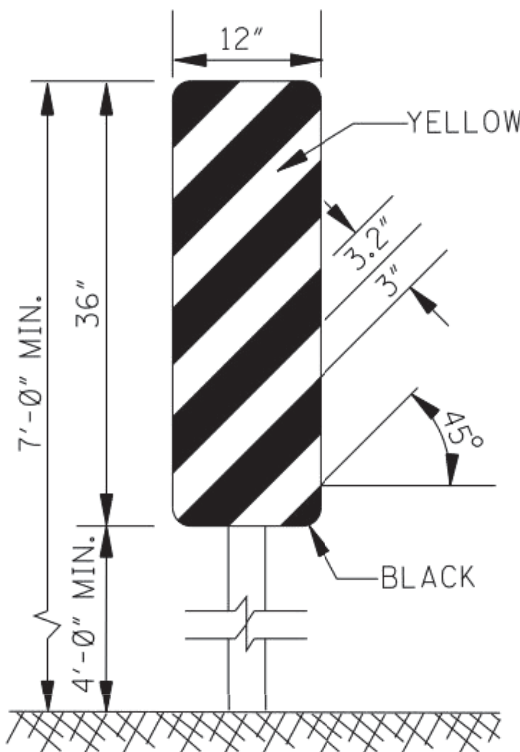
	I	II	III
WIDTH OF RAIL **	8" MIN. - 12" MAX.	8" MIN. - 12" MAX.	8" MIN. - 12" MAX.
LENGTH OF RAIL **	24" MIN.	24" MIN.	48" MIN.
WIDTH OF STRIPE *	6"	6"	6"
HEIGHT	36" MIN.	36" MIN.	60" MIN.
NUMBER OF REFLECTORIZED RAIL FACES	2 (ONE EACH DIRECTION)	4 (TWO EACH DIRECTION)	3 IF FACING TRAFFIC IN ONE DIRECTION 6 IF FACING TRAFFIC IN TWO DIRECTIONS
TYPE OF FRAME	LIGHT	LIGHT "A" FRAME	POST OR SKID

* 1. FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED.

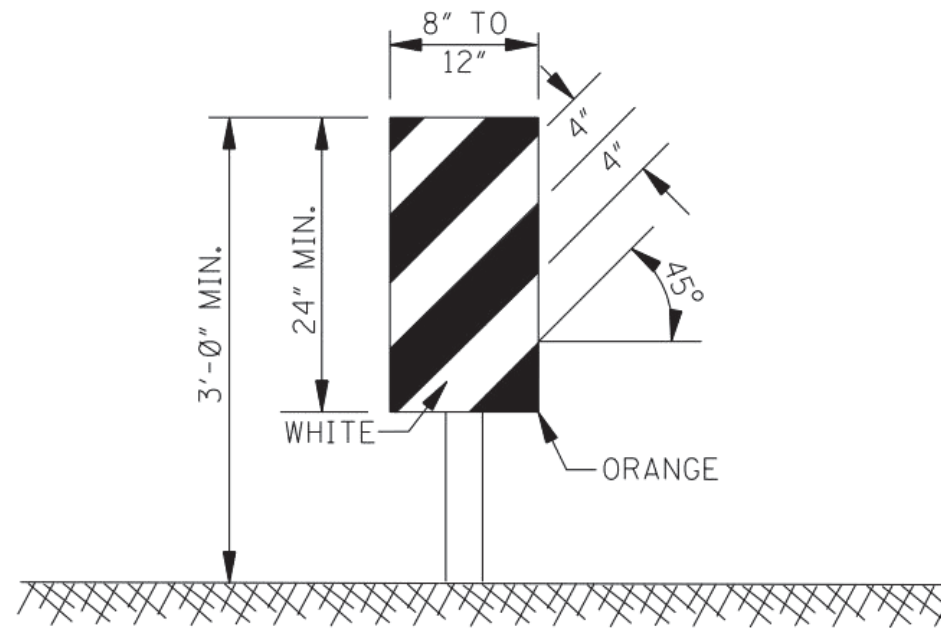
** 2. BARRICADES INTENDED FOR USE ON EXPRESSWAYS, FREEWAYS AND OTHER HIGH SPEED ROADWAYS, SHALL HAVE A MINIMUM OF 270 in² OF REFLECTIVE AREA FACING TRAFFIC.



CHEVRON SIGN
DETAIL

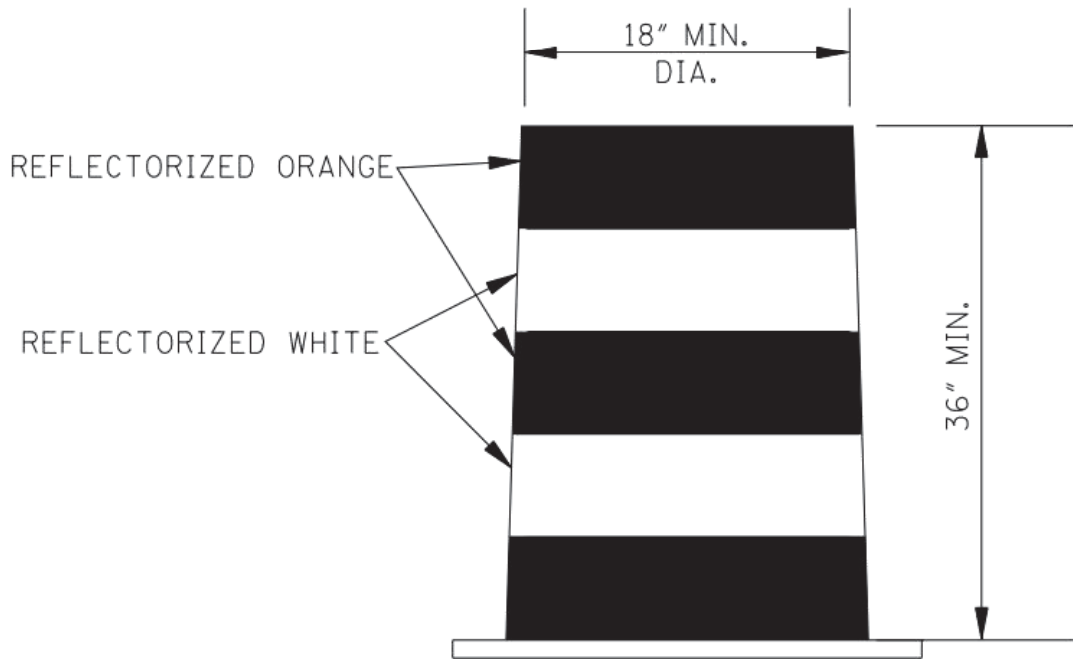


TYPE 3 OBJECT MARKER
(OM-3R)



VERTICAL PANEL

1. VERTICAL PANELS CONSIST OF AT LEAST ONE PANEL 8" TO 12" IN WIDTH AND A MINIMUM OF 24" IN HEIGHT.
2. THE DIAGONAL STRIPES SHALL SLOPE DOWNWARD IN THE DIRECTION THAT TRAFFIC IS TO PASS THE PANEL. THE PANELS SHALL BE MOUNTED WITH THE TOP A MINIMUM OF 36" ABOVE THE ROADWAY ON A SINGLE LIGHTMASS POST.
3. VERTICAL PANELS USED ON EXPRESSWAYS, FREEWAYS AND OTHER HIGH-SPEED ROADWAYS SHALL HAVE A MINIMUM OF 270 in² OF RETROREFLECTIVE AREA FACING TRAFFIC.
4. FOR TWO-WAY TRAFFIC OPERATIONS, BACK-TO-BACK PANELS SHALL BE USED.



PLASTIC DRUM STRIPING DETAIL

1. PLASTIC DRUMS SHALL BE ON END AND USED AS AN EXPEDIENT METHOD FOR TRAFFIC CHANNELIZATION. THE COLOR AND MARKING OF DRUMS SHALL BE CONSISTENT WITH MARKING STANDARDS FOR BARRICADE. THE PREDOMINANT COLOR ON DRUMS SHALL BE ORANGE WITH FOUR (4) REFLECTORIZED, HORIZONTAL, CIRCUMFERENTIAL STRIPES (2 ORANGE & 2 WHITE) 6" WIDE.
2. DRUMS SHOULD NEVER BE PLACED IN THE ROADWAY WITHOUT WARNING SIGNS.
3. WHERE PRACTICAL PLASTIC DRUMS SHALL BE PLACED NO CLOSER THAN 3'-0" FROM THE EDGE OF TRAVELED LANE.

GENERAL NOTES:

1. MARKINGS ON ALL DEVICES SHOWN ON THIS SHEET SHALL BE HIGH INTENSITY REFLECTIVE SHEETING.
2. THE TRAFFIC CONTROL PLAN WILL LIST THE VARIOUS TRAFFIC CONTROL DEVICES REQUIRED FOR EACH PROJECT.

NOTICE TO DRAWING HOLDER

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				QA/QC:	DATE:

HARDY STREET PAVING PROJECT

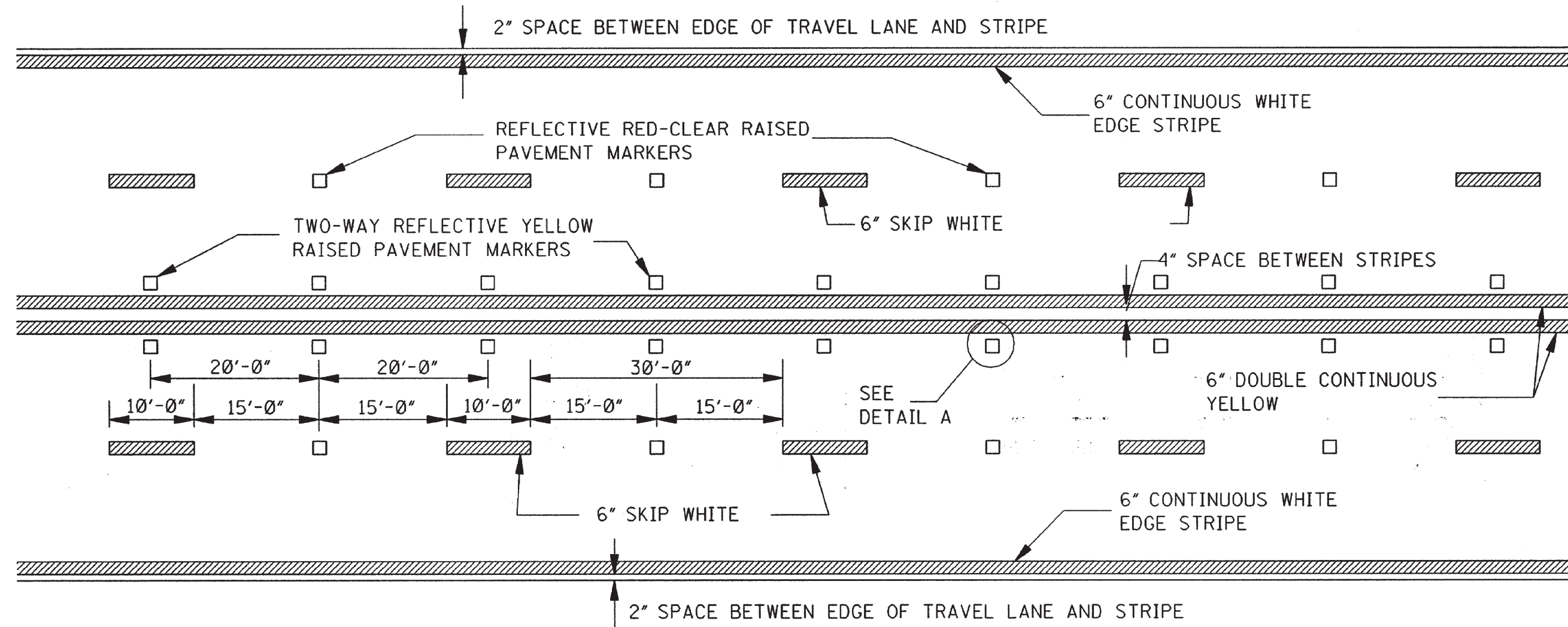
CITY OF HATTIESBURG
HATTIESBURG, MS
FORREST COUNTY



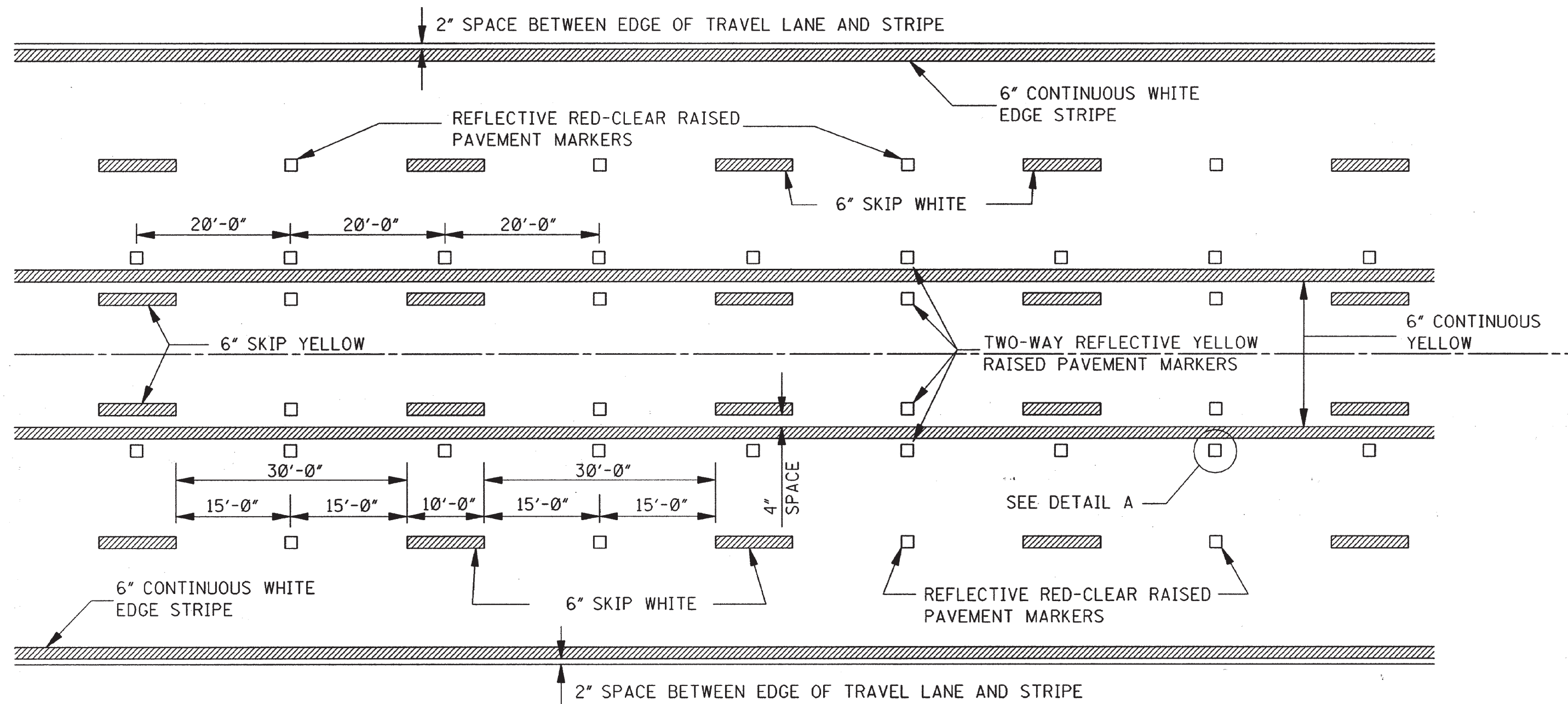
HIGHWAY SIGN BARRICADE DETAILS
FOR CONSTRUCTION PROJECTS

WORKING NUMBER:
SDTCP-10

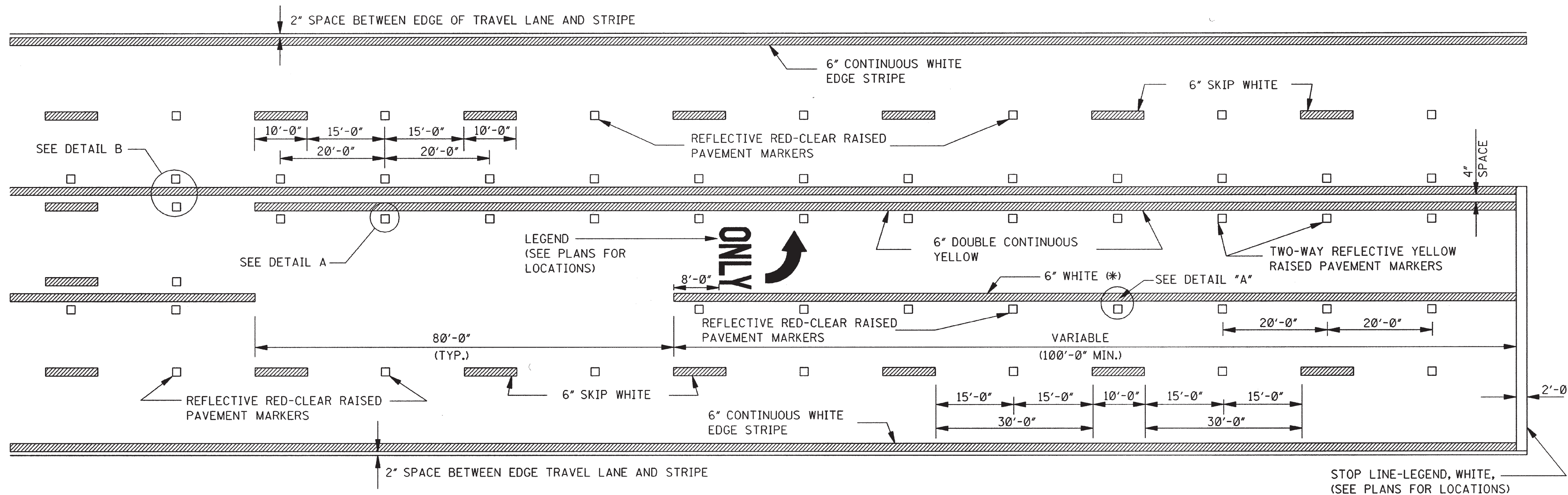
DRAWING NUMBER:
16



TYPICAL STRIPING AND RAISED PAVEMENT MARKERS FOR 4-LANE SECTION

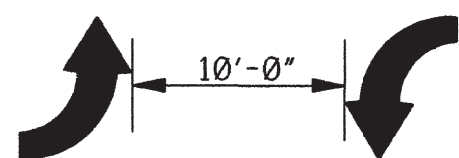


TYPICAL STRIPING AND RAISED PAVEMENT MARKERS FOR 5-LANE SECTION



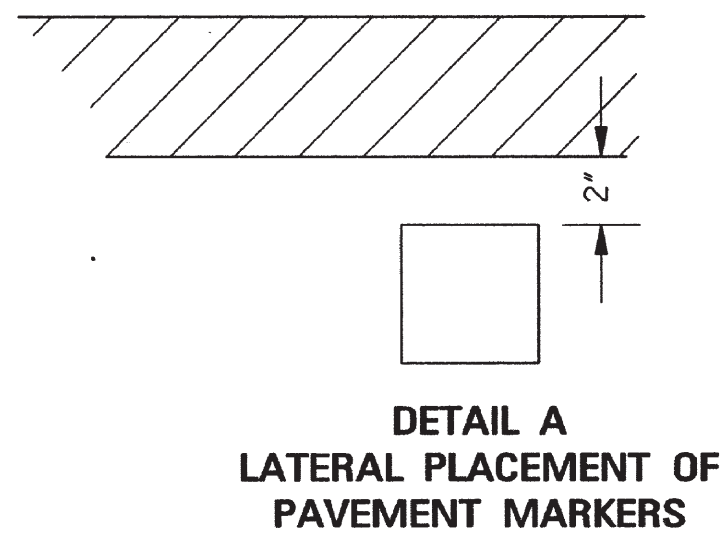
TYPICAL STRIPING AND RAISED PAVEMENT MARKERS AT LEFT TURN LANES

*NOTE: USE DETAIL STRIPING IF LENGTH $\leq 150'$ AT THIS LOCATION, OTHERWISE USE CONTINUOUS STRIPING.

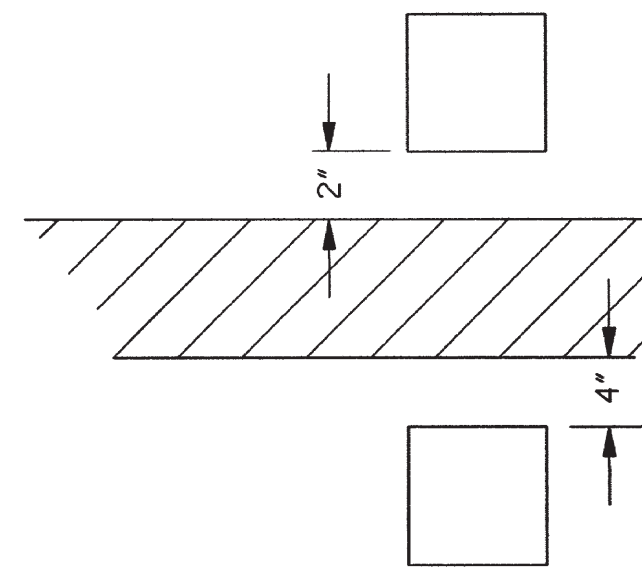


TYPICAL TWO-WAY ARROW INSTALLATION

- NOTES: 1. CONSIDER EACH SEGMENT OF CONTINUOUS TWO-WAY LEFT TURN LANE SEPARATELY.
2. IF SEGMENT IS LESS THAN 350', PLACE ONE SET OF ARROWS IN CENTER OF SEGMENT.
3. IF SEGMENT IS GREATER THAN 350', PLACE FIRST SET OF ARROWS 50' TO 100' FROM BEGINNING AND/OR END OF SEGMENT AND SPACE ADDITIONAL SETS OF ARROWS (250' O.C.).



DETAIL A
LATERAL PLACEMENT OF PAVEMENT MARKERS



DETAIL B
LATERAL PLACEMENT OF PAVEMENT MARKERS

GENERAL NOTE:

1. PAVEMENT MARKERS SHALL BE HIGH PERFORMANCE RAISED PAVEMENT MARKERS AS LISTED IN THE MDT "APPROVED SOURCES OF MATERIALS".

NOTICE TO DRAWING HOLDER

NEEL-SCHAFFER, INC., HEREINAFTER REFERRED TO AS THE ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.

REVISIONS				DRAWING INFORMATION	
NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: 15581	
				FILENAME: 15581_Standard Details.dwg	
				SCALE: NOT TO SCALE	
				SURVEYED BY:	
				DSGN: JLL	DATE: 02/2020
				DRWN: MLJ	DATE: 02/2020
				CHKD:	DATE:
				QA/QC:	DATE:

HARDY STREET PAVING PROJECT

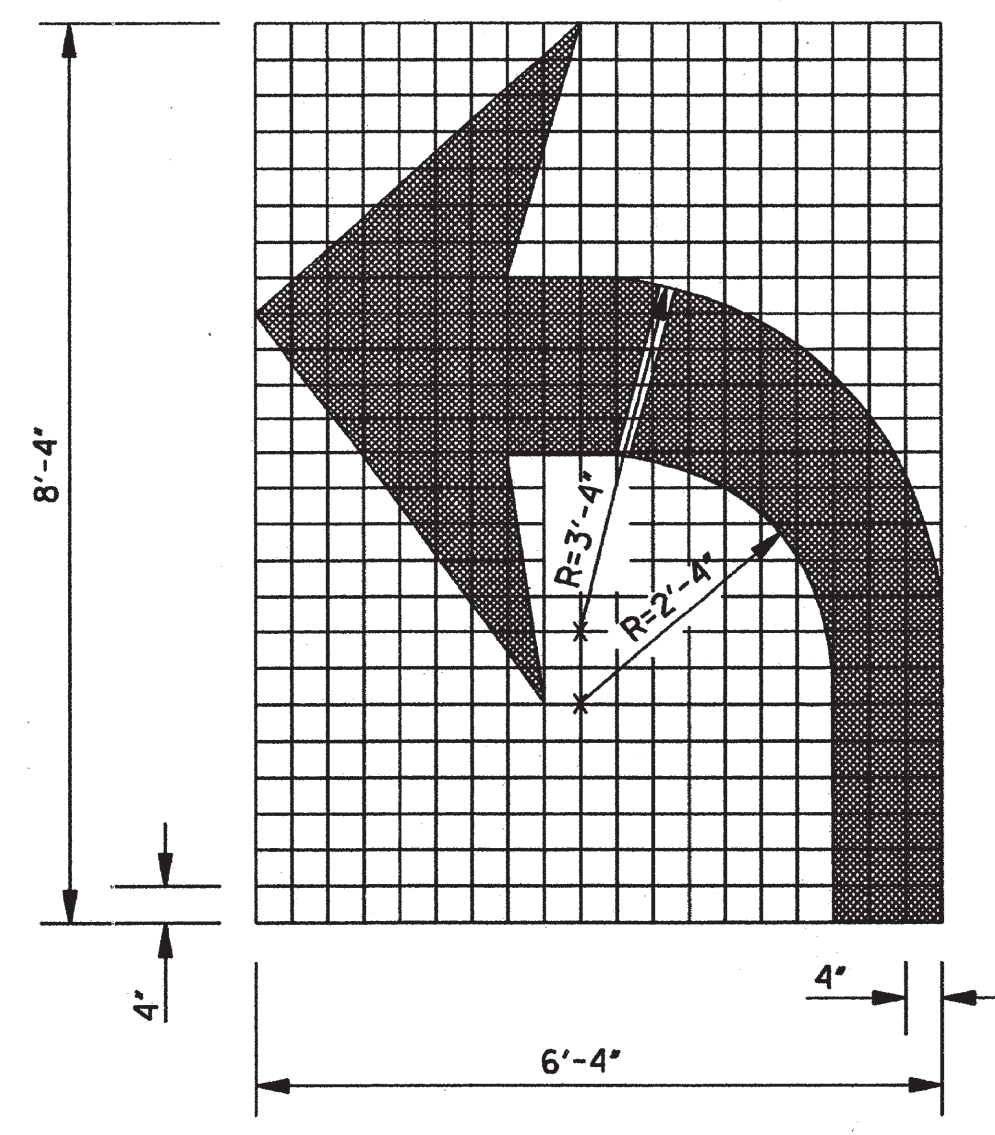
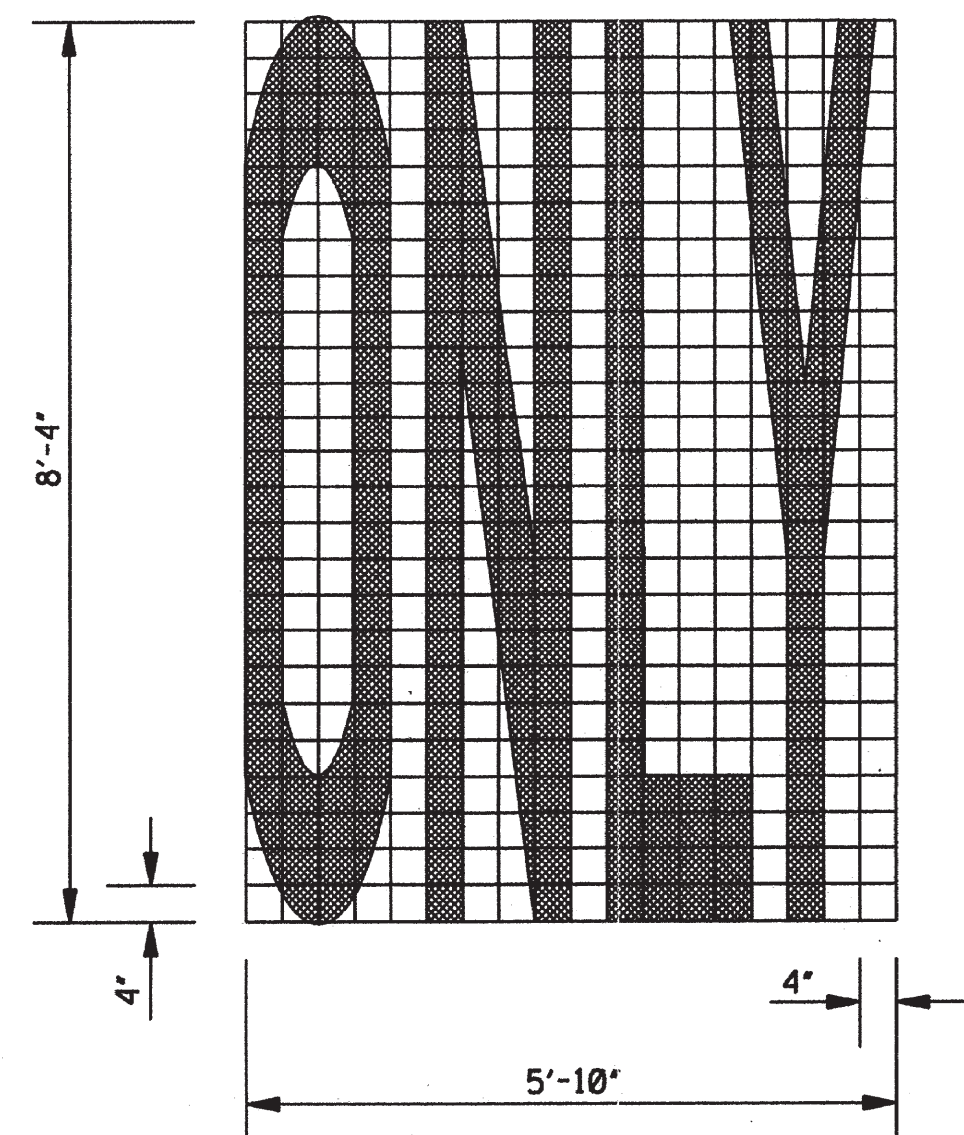
CITY OF HATTIESBURG
HATTIESBURG, MS
FORREST COUNTY

NEEL-SCHAFFER
Solutions you can build upon

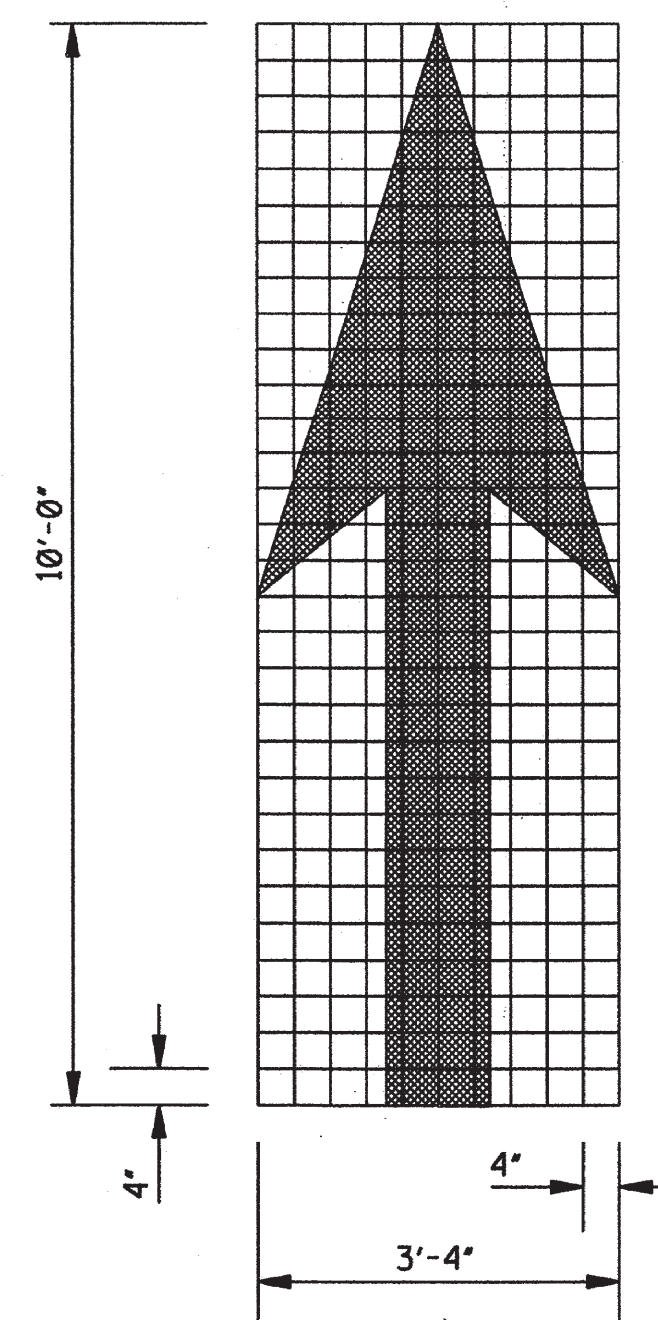
PAVEMENT MARKING DETAILS
FOR 4-LANE AND 5-LANE
UNDIVIDED ROADWAYS

WORKING NUMBER:
PM-2

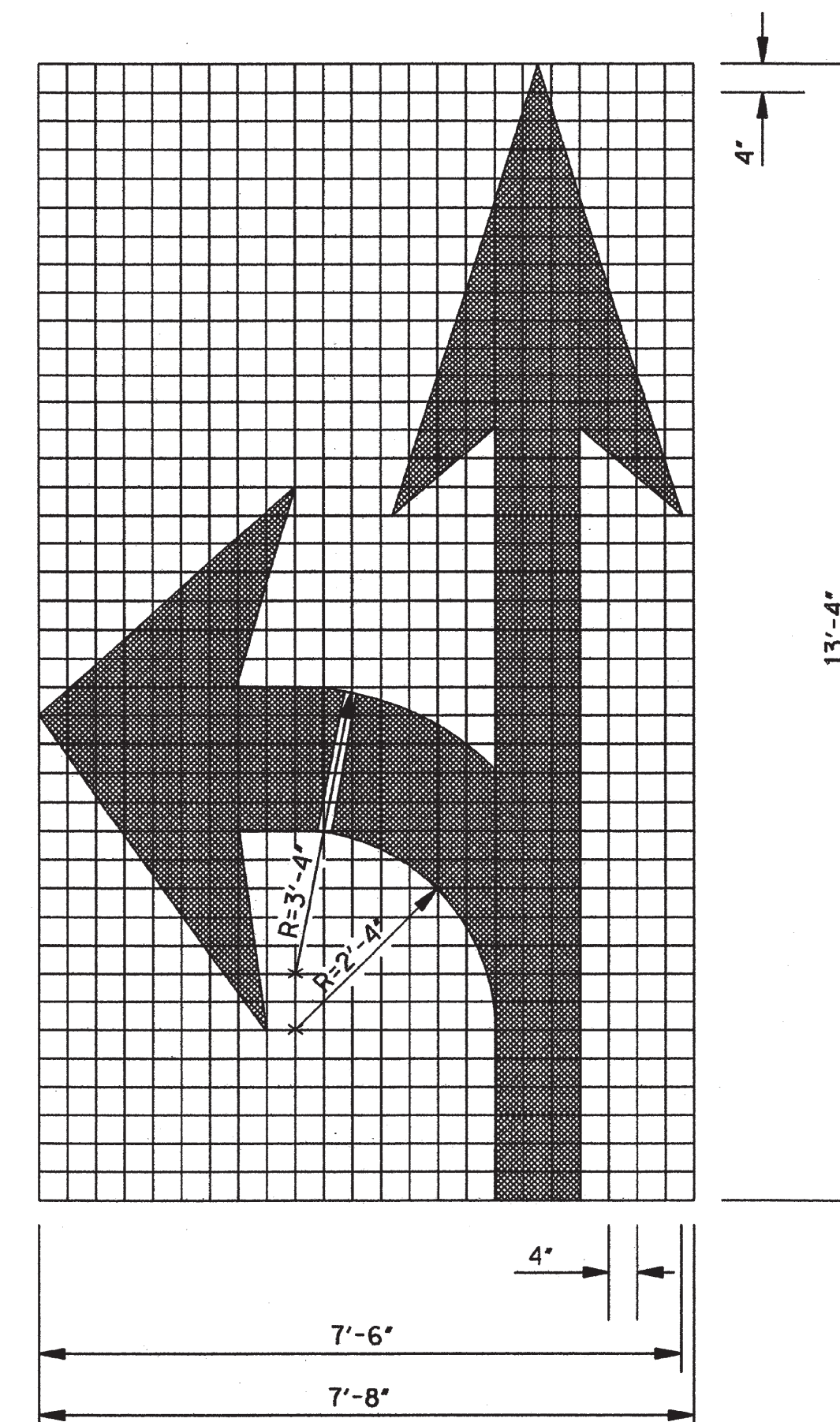
DRAWING NUMBER:
17



TURN ARROW



THRU ARROW

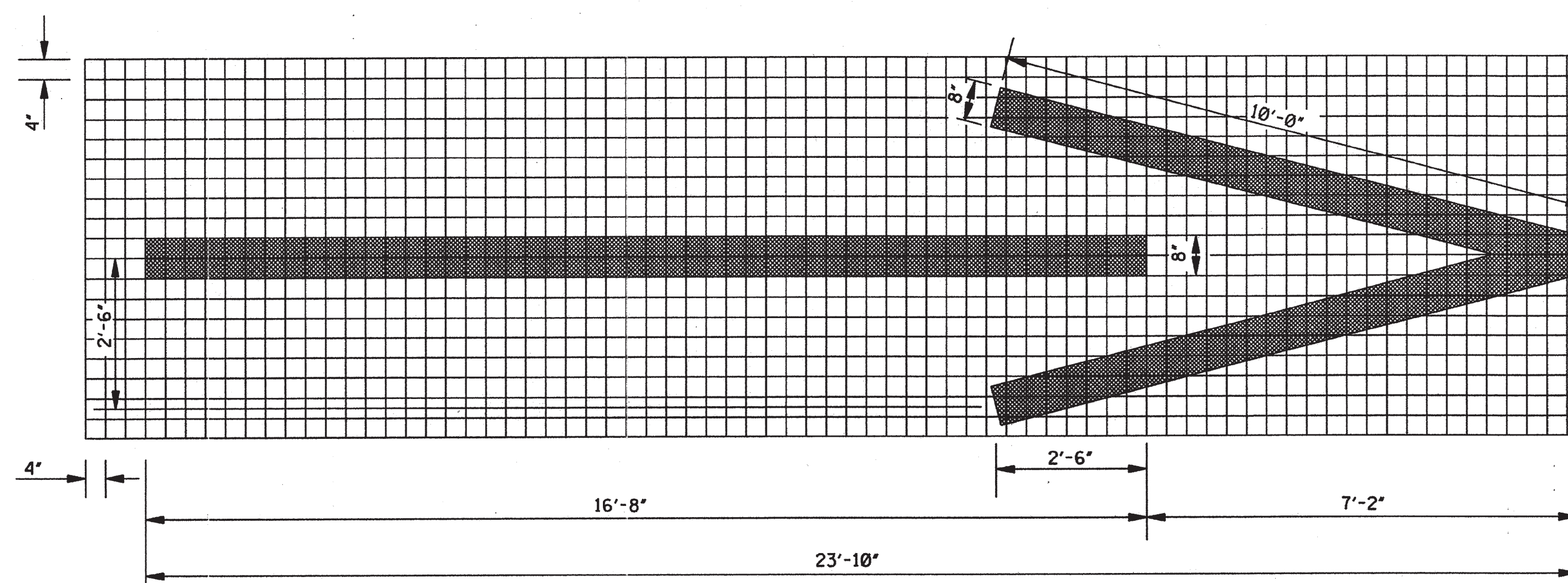


COMBINATION ARROW

GENERAL NOTES:

1. UNLESS OTHERWISE SHOWN ON THE PLANS, ALL PAVEMENT MARKING LEGENDS, INCLUDING TURN ARROWS, SHALL BE APPLIED USING HIGH PERFORMANCE MATERIALS
2. TWO HORIZONTAL GAPS (CAUSED BY TEMPLATE CONNECTORS) OF 1/2" OR LESS AND EXTENDING THE FULL WIDTH ARE PERMITTED IN EACH LETTER.
3. FOR OTHER DETAILS, SEE THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
4. PAY QUANTITIES FOR PAVEMENT MARKING LEGENDS ARE AS FOLLOWS:

PAY QUANTITIES	
LEGEND/SYMBOL	AREA (ft ²)
ONLY	22.0
TURN ARROW	16.4
THRU ARROW	12.3
COMB. ARROW	27.5
1-WAY ARROW	24.3



1-WAY ARROW

NOTICE TO DRAWING HOLDER

NEEL-SCHAFFER, INC., HEREINAFTER REFERRED TO AS THE ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.

REVISIONS			DRAWING INFORMATION	
NO.	DATE	BY	DESCRIPTION	
			N-S PROJECT NO.: 15581	
			FILENAME: 15581_Standard Details.dwg	
			SCALE: NOT TO SCALE	
			SURVEYED BY:	
			DSGN: JLL	DATE: 02/2020
			DRWN: MLJ	DATE: 02/2020
			CHKD:	DATE:
			QA/QC:	DATE:

HARDY STREET PAVING PROJECT

CITY OF HATTIESBURG
HATTIESBURG, MS
FORREST COUNTY



PAVEMENT MARKING
LEGEND DETAILS

WORKING NUMBER:
PM-6

DRAWING NUMBER:
18

ADVERTISEMENT FOR BIDS

**HARDY STREET PAVING PROJECT
CITY OF HATTIESBURG, MISSISSIPPI**

Sealed bids will be received by the City of Hattiesburg, at the City Clerk's office, Mississippi, hereafter referred to as Owner, located at 200 Forrest Street, Hattiesburg, Mississippi, 39401, until 10:00 A.M., Local Time, Thursday, **September 17**, 2020 for supplying all labor, equipment, and materials (as specified) necessary for the construction of the above referenced project. Work consists milling and overlay of Hardy Street from 21st Avenue to West Pine Street. When bids are submitted electronically, the same requirements for submitting sealed bids shall apply. Electronic bids shall be submitted online at www.hattiesburgsbids.com and shall include a document representing the cover of the envelope containing the aforementioned criteria.

The above general outline of features of the work does not in any way limit the responsibility of the Contractor to perform all work and furnish all labor, equipment and materials required by the specifications and the drawings referred to therein.

Bidder must be qualified under Mississippi Law and show current Certificate of Responsibility issued by the Mississippi State Board of Public Contractors establishing his classification as to the value and type of construction on which he is authorized to bid.

Each Bidder shall write his Certificate of Responsibility Number on the outside of the sealed envelope containing his proposal.

Proposals shall be submitted in duplicate, sealed and deposited with the Owner prior to the hour and date hereinbefore designated. No bidder may withdraw his bid within 90 days after the actual date of the opening thereof.

Awarding public contracts to non-resident Bidders will be on the same basis as the non-resident bidder's state awards contracts to Mississippi Contractors bidding under similar circumstances. In order to ensure that Mississippi's so-called Golden Rule is followed state law requires a non-resident bidder is to attach to his bid a copy of his resident state's current laws pertaining to such state's treatment of non-resident contractors.

Each Bidder must deposit with his proposal, a Bid Bond or Certified Check in an amount equal to five percent of his bid, payable to the Owner, as bid security. Bidders shall also submit a current financial statement, if requested, by the Owner. The successful bidder will be required to furnish a Payment Bond and Performance Bond each in the amount of 100 percent of the contract amount.

Bid documents are being made available via paper copy or pdf. All interested bidders are required to log-in or register for an account at www.hattiesburgsbids.com OR www.neel-schafferplans.com to view and order Bid Documents. All plan holders are required to have a valid email address for registration. Bid documents are non-refundable and must be purchased through the website. Questions regarding website registration and online orders please contact Plan House Printing at (601) 336-6378.

"Mississippi Standard Specifications for Road and Bridge Construction, 2017 Edition" as referred to herein, may be purchased from the Mississippi Department of Transportation.

The Owner hereby notifies all Bidders that it will affirmatively insure that in any contract entered into pursuant to this advertisement, disadvantaged and women's business enterprises will be afforded the full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

The Engineer is Neel-Schaffer, Inc., 704 Hardy Street, Hattiesburg, Mississippi 39401; Phone No. (601) 545-1565, Fax No. (601)-545-2267. Jeffery Lee, P.E. – Vice President.

The Owner reserves the right to reject any and all bids and to waive any informalities or irregularities therein.

BY: _____
City Clerk
City of Hattiesburg, Mississippi

DATES OF PUBLICATION:

August 12, 2020

August 19, 2020



Memorandum

To: Mayor Toby Barker and Members of City Council

From: Lamar Rutland

cc:

Date: Tuesday, August 4, 2020

Re: Approve Plans and Specifications for the Roadway Improvements on Highway 49, Camp Street, Adeline Street, and Mamie Street Project, Mississippi Department of Transportation State Aid Road Construction Project No. DECD-0018(35)BO and authorize advertisement for bids contingent upon Office of State Aid and Road Construction approval.
File Number: 2020-522
Minute Book #

Summary

Approve Plans and Specifications for the Roadway Improvements on Highway 49, Camp Street, Adeline Street, and Mamie Street Project, Mississippi Department of Transportation State Aid Road Construction Project No. DECD-0018(35)BO and authorize advertisement for bids contingent upon MDOT approval.

Recommendation Statement

I recommend approval of this item.

Please place this on the August 4, 2020 City Council meeting for consideration.

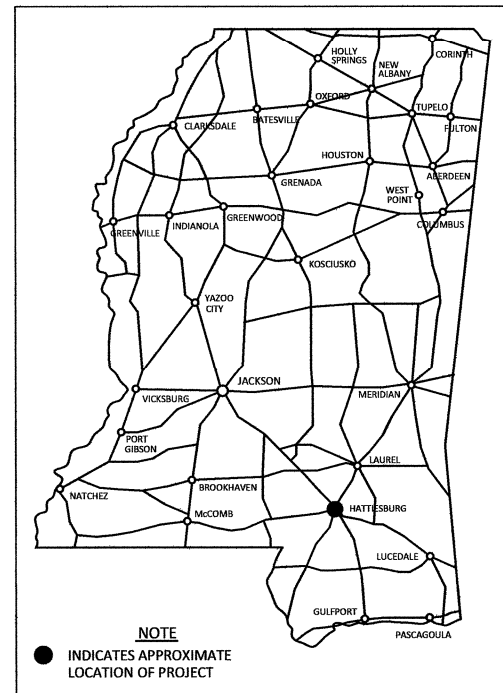
DESIGNED BY: DBG
DRAWN BY: BLI
COUNTY: FORREST
FILE NAME: D:\civil 3D - 178-11\dwg\178-11 Plan Profiles.dwg
Title
DESIGN TEAM: THE WALKER ASSOCIATES, PLLC

STATE OF MISSISSIPPI
OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
PLAN AND PROFILE OF PROPOSED
PROJECT NO. DECD-0018(35)BO
IN VICINITY OF FORREST GENERAL HOSPITAL
AND IMPROVEMENTS TO CAMP STREET & ADELINE STREET
IN MIDTOWN AREA OF HATTIESBURG, MISSISSIPPI
FORREST COUNTY, MISSISSIPPI

SCALES (FULL SCALE PLANS):

PLAN 1 IN. = 20 FEET
PROFILE | HORIZ: 1 IN. = 20 FEET
VERT: 1 IN. = 10 FEET
TITLE 1 IN. = 2000 FEET

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

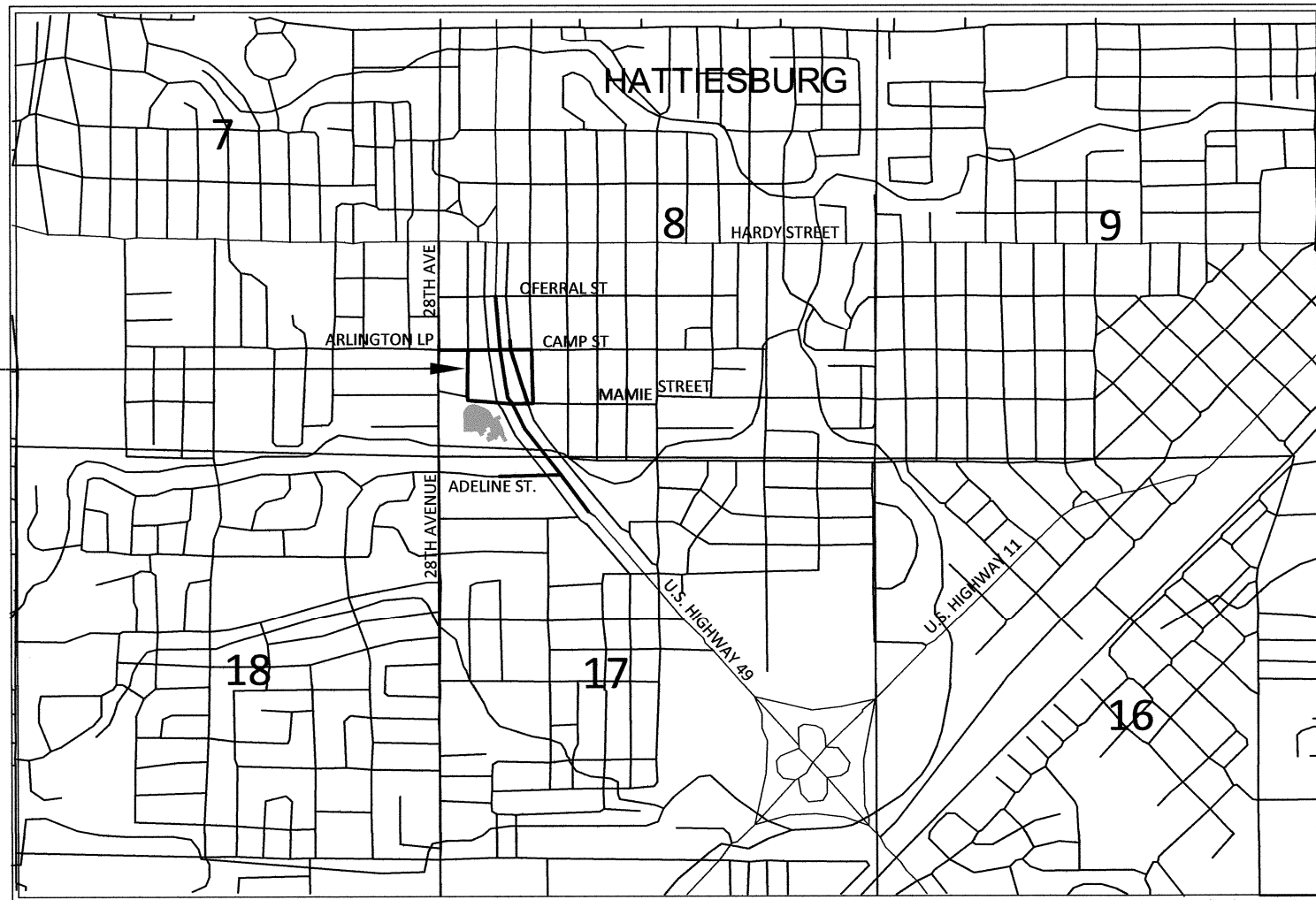


NOTE
● INDICATES APPROXIMATE
LOCATION OF PROJECT

PERMITS REQUIRED		
WETLANDS AND WATERS PERMIT (NECESSARY FOR ULTIMATE IMPROVEMENTS ONLY);		
	WATERS	WETLANDS
NATIONWIDE #14	☒	☒
NATIONWIDE (OTHER)*	☒	☒
GENERAL*	☒	☒
INDIVIDUAL (404)*	☒	☒
* ACQUISITION OF PERMITS FOR TEMPORARY IMPACTS DURING CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR		
STORMWATER PERMIT ☒		
Y	REQUIRES CNOI SUBMITTED BY MDOT (DISTRIBUTED AREA = 5 ACRES+)(NTB 586)	
S	REQUIRES SCNOI SUBMITTED BY CONTRACTOR (1 TO 4.99 ACRES)(NTB 14)	
N	NO STORMWATER PERMIT REQUIRED (<1 ACRE)	
APPROVED BY: _____ DATE: _____		

PROJECT LOCATION

(HWY 49, ADELINE ST, ARLINGTON LOOP,
CAMP ST, MAMIE ST, WEST FRONTAGE RD,
EAST FRONTAGE RD, 25TH AVE, AND 27TH AVE



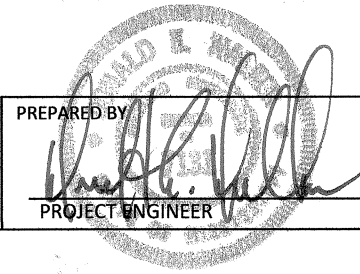
PREPARED BY

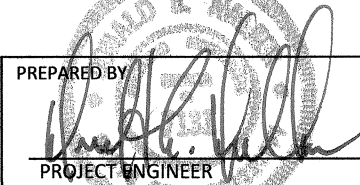
PROJECT ENGINEER
DATE 7-17-2020

OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
APPROVED
STATE AID ENGINEER
DATE

DESCRIPTION OF SHEET	REVISION DATE	WKG. NO.	SH. NO.
TITLE SHEET		1	1.0
SHEET INDEX & GENERAL INFO (8)			
SHEET INDEX		I-1	2.0
SHEET INDEX		I-2	2.1
SHEET INDEX		I-3	2.2
PLAN/PROFILE SHEET LAYOUT WITH AERIAL IMAGE		L-1	2.3
PLAN/PROFILE SHEET LAYOUT WITH HWY 49 STATIONS		L-2	2.4
ABBREVIATIONS, LEGEND & SYMBOLS		A-1	2.5
GENERAL NOTES		GN-1	2.6
CONSTRUCTION PHASING		PH-1	2.7
TYPICAL SECTIONS (28)			
TYPICAL SECTION - US HWY 49 (STA. 192+84 TO STA. 194+00)		TS-1	3.0
TYPICAL SECTION - US HWY 49 (STA. 194+00 TO STA. 201+07)		TS-2	3.1
TYPICAL SECTION - US HWY 49 (STA. 201+07 TO STA. 206+50)		TS-3	3.2
TYPICAL SECTION - US HWY 49 (STA. 206+50 TO STA. 209+60)		TS-4	3.3
TYPICAL SECTION - US HWY 49 (STA. 209+60 TO STA. 210+00)		TS-5	3.4
TYPICAL SECTION - US HWY 49 (STA. 210+00 TO STA. 215+66)		TS-6	3.5
TYPICAL SECTION - US HWY 49 (STA. 215+66 TO STA. 216+17)		TS-7	3.6
TYPICAL SECTION - US HWY 49 (STA. 216+17 TO STA. 217+13)		TS-8	3.7
TYPICAL SECTION - US HWY 49 (STA. 217+13 TO STA. 222+06)		TS-9	3.8
TYPICAL SECTION - US HWY 49 (STA. 222+06 TO STA. 223+08)		TS-10	3.9
TYPICAL SECTION - US HWY 49 (STA. 223+08 TO END OF PROJECT)		TS-11	3.10
TYPICAL SECTION - MAMIE STREET (FORREST GENERAL HOSPITAL MAIN ENTRANCE)		TS-12	3.11
TYPICAL SECTION - MAMIE STREET (FORREST GENERAL HOSPITAL MAIN ENTRANCE) (TAPER TO EXISTING DRIVE)		TS-13	3.12
TYPICAL SECTION - MAMIE STREET (EMERGENCY ROOM ENTRANCE) (STA. 10+40 TO STA. 12+21)		TS-14	3.13
TYPICAL SECTION - MAMIE STREET (EMERGENCY ROOM ENTRANCE) (STA. 13+00 TO STA. 14+91)		TS-15	3.14
TYPICAL SECTION - MAMIE STREET (EMERGENCY ROOM ENTRANCE) (STA. 15+30 TO STA. 16+53)		TS-16	3.15
TYPICAL SECTION - ARLINGTON LOOP (STA. 11+08-C TO STA. 13+39-C)		TS-17	3.16
TYPICAL SECTION - ARLINGTON LOOP (STA. 13+39-C TO US HWY 49)		TS-18	3.17
TYPICAL SECTION - CAMP STREET (EAST FRONTAGE TO STA. 19+46-C)		TS-19	3.18
TYPICAL SECTION - CAMP STREET (STA. 19+46-C TO 25TH AVE.)		TS-20	3.19
TYPICAL SECTION - EAST FRONTAGE ROAD (BETWEEN MAMIE ST. & CAMP ST.) (STA. 35+20-EF)		TS-21	3.20
TYPICAL SECTION - EAST FRONTAGE ROAD (BETWEEN MAMIE ST. & CAMP ST.) (STA. 35+75-EF)		TS-22	3.21
TYPICAL SECTION - EAST FRONTAGE ROAD (BETWEEN CAMP ST. & O'FERRAL ST.)		TS-23	3.22
TYPICAL SECTION - WEST FRONTAGE ROAD (BETWEEN ADELINE ST. & MAMIE ST.) (STA. 21+23-WF TO STA. 22+77-WF)		TS-24	3.23
TYPICAL SECTION - WEST FRONTAGE ROAD (BETWEEN ADELINE ST. & MAMIE ST.) (STA. 22+77-WF TO STA. 29+66-WF)		TS-25	3.24
TYPICAL SECTION - ADELINE STREET		TS-26	3.25
TYPICAL SECTION - 27TH AVENUE		TS-27	3.26
SUMMARY OF QUANTITIES (5)			
SUMMARY OF QUANTITIES		SQ-1	4.0
SUMMARY OF QUANTITIES		SQ-2	4.1
SUMMARY OF QUANTITIES		SQ-3	4.2
SUMMARY OF QUANTITIES		SQ-4	4.3
SUMMARY OF QUANTITIES		SQ-5	4.4
ESTIMATED QUANTITIES (12)			
ESTIMATED QUANTITIES - CURB AND GUTTER REMOVAL		EQ-1	5.0
ESTIMATED QUANTITIES - PAVEMENT REMOVAL		EQ-2	5.1
ESTIMATED QUANTITIES - MILLING ASPHALT PAVEMENT		EQ-3	5.2
ESTIMATED QUANTITIES - STORM DRAINAGE		EQ-4	5.3
ESTIMATED QUANTITIES - STORM DRAINAGE		EQ-5	5.4
ESTIMATED QUANTITIES - STORM DRAINAGE		EQ-6	5.5
ESTIMATED QUANTITIES - CURB AND GUTTER		EQ-7	5.6
ESTIMATED QUANTITIES - CURB AND GUTTER		EQ-8	5.7
ESTIMATED QUANTITIES - CONCRETE PAVEMENT		EQ-9	5.8
ESTIMATED QUANTITIES - ASPHALT PAVEMENT		EQ-10	5.9
ESTIMATED QUANTITIES - ASPHALT PAVEMENT		EQ-11	5.10
ESTIMATED QUANTITIES - EROSION CONTROL & RETAINING WALL		EQ-12	5.11
ESTIMATED QUANTITIES - PERMANENT SIGNS		EQ-13	5.12
ESTIMATED QUANTITIES - MISCELLANEOUS REMOVAL		EQ-14	5.13
ESTIMATED QUANTITIES - MISCELLANEOUS REMOVAL		EQ-15	5.14
ESTIMATED QUANTITIES - MISCELLANEOUS REMOVAL		EQ-16	5.15
ESTIMATED QUANTITIES - NON-PARTICIPATING ITEMS		EQ-17	5.16

DESCRIPTION OF SHEET	REVISION DATE	WKG. NO.	SH. NO.
PLAN AND PROFILE SHEETS (15)			
PLAN AND PROFILE - MAMIE STREET (EMERGENCY ROOM ENTRANCE)		PP-1	6.0
PLAN AND PROFILE - MAMIE STREET (EMERGENCY ROOM ENTRANCE)		PP-1A-ER	6.01
PLAN AND PROFILE - MAMIE STREET (FORREST GENERAL HOSPITAL MAIN ENTRANCE)		PP-2	6.1
PLAN AND PROFILE - US HWY 49 (STA. 189+92 TO STA. 195+40)		PP-3	6.2
PLAN AND PROFILE - US HWY 49 (STA. 195+40 TO STA. 201+85)		PP-4	6.3
PLAN AND PROFILE - US HWY 49 (STA. 201+85 TO STA. 208+30)		PP-5	6.4
PLAN AND PROFILE - US HWY 49 (STA. 208+30 TO STA. 214+75)		PP-6	6.5
PLAN AND PROFILE - US HWY 49 (STA. 214+75 TO STA. 221+20)		PP-7	6.6
PLAN AND PROFILE - US HWY 49 (STA. 221+20 TO STA. 227+65)		PP-8	6.7
PLAN AND PROFILE - WEST FRONTAGE ROAD AT ARLINGTON LOOP (STA. 34+25-WF TO STA. 40+70-WF)		PP-9	6.8
PLAN AND PROFILE - ARLINGTON LOOP (STA. 11+08-C TO STA. 16+36.74-C)		PP-10	6.9
PLAN AND PROFILE - ARLINGTON LOOP & CAMP STREET (STA. 14+55-C TO STA. 21+00-C)		PP-11	6.10
PLAN AND PROFILE - EAST FRONTAGE ROAD AT CAMP STREET (STA. 33+00-EF TO STA. 39+45-EF)		PP-12	6.11
PLAN AND PROFILE - ADELINE STREET (STA. 10+00 TO STA. 14+00)		PP-13	6.12
PLAN AND PROFILE - WEST FRONTAGE ROAD AT ADELINE STREET (STA. 19+96-WF TO STA. 22+77-WF)		PP-14	6.13
CONSTRUCTION SIGNING (7)			
CONSTRUCTION SIGNING - PHASE 1		CS-1	7.1
CONSTRUCTION SIGNING - PHASE 2		CS-2	7.2
CONSTRUCTION SIGNING - PHASE 3		CS-3	7.3
CONSTRUCTION SIGNING - PHASE 4		CS-4	7.4
CONSTRUCTION SIGNING - PHASE 5		CS-5	7.5
CONSTRUCTION SIGNING - PHASE 6		CS-6	7.6
CONSTRUCTION SIGNING - PHASE 7		CS-7	7.7
EROSION CONTROL (12)			
EROSION CONTROL - NOTES & S.W.P.P.P.		ECN-1	8.0
EROSION CONTROL - MAMIE STREET (EMERGENCY ROOM ENTRANCE)		EC-1	8.1
EROSION CONTROL - MAMIE STREET (EMERGENCY ROOM ENTRANCE)		EC-1A-ER	8.1.1
EROSION CONTROL - MAMIE STREET (FORREST GENERAL HOSPITAL MAIN ENTRANCE)		EC-2	8.2
EROSION CONTROL - US HWY 49 (STA. 195+40 TO STA. 201+84)		EC-3	8.3
EROSION CONTROL - US HWY 49 (STA. 201+84 TO STA. 208+30)		EC-4	8.4
EROSION CONTROL - US HWY 49 (STA. 208+30 TO STA. 214+75)		EC-5	8.5
EROSION CONTROL - US HWY 49 (STA. 214+75 TO STA. 221+20)		EC-6	8.6
EROSION CONTROL - US HWY 49 (STA. 221+20 TO STA. 227+65)		EC-7	8.7
EROSION CONTROL - ARLINGTON LOOP		EC-8	8.8
EROSION CONTROL - CAMP STREET		EC-9	8.9
EROSION CONTROL - ADELINE STREET		EC-10	8.10



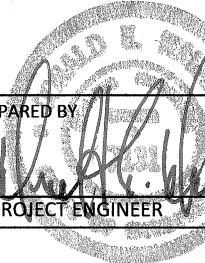
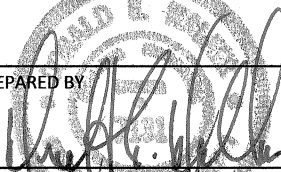
PREPARED BY:

PROJECT ENGINEER

7-17-2020
DATE

				BY
				REVISION
				DATE
ENGINEER: THE WALKER ASSOCIATES, PLLC				WORKING NUMBER I-1
FILENAME: D:\civil 3D - 178-11\dwg\178-11 Schedule.dwg - SI-1				SHEET NUMBER 2.0
CHECKED BY <u>DBG</u> DATE <u>Jul 09, 2020</u>				

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

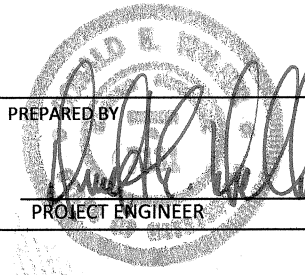
DESCRIPTION OF SHEET	REVISION DATE	WKG. NO.	SH. NO.
STANDARD DRAWINGS - ROADWAY SHEETS (39)			
PAVEMENT MARKING DETAILS 2-LANE AND 4-LANE DIVIDED HIGHWAYS		PM-1	6120
PAVEMENT MARKING DETAILS 4-LANE AND 5-LANE UNDIVIDED HIGHWAYS		PM-2	6121
PAVEMENT MARKING LEGEND DETAILS		PM-5	6124
PAVEMENT MARKING LEGEND DETAILS		PM-6	6125
GUARDRAIL: "W" BEAM (STEEL POSTS)		GR-1B	6182
GUARDRAIL: BRIDGE END SECTIONS TYPE "A" & "C"		GR-2	6184
STANDARD ROADSIDE SIGNS		SN-3	6222
STANDARD ROADSIDE SIGNS		SN-3A	6223
STANDARD ROADSIDE SIGNS		SN-3B	6224
STANDARD ROADSIDE SIGN ASSEMBLY AND INSTALLATION		SN-4	6225
STANDARD ROADSIDE SIGN ASSEMBLY AND INSTALLATION		SN-4A	6226
STANDARD ROADSIDE SIGN ASSEMBLY AND INSTALLATION		SN-4B	6227
BREAKAWAY SIGN SUPPORTS		SN-6	6229
BREAKAWAY SIGN SUPPORTS		SN-6A	6230
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			PREPARED BY  PROJECT ENGINEER
			7-17-2020 DATE
			BY
			REVISION
SHEET INDEX			
ENGINEER: THE WALKER ASSOCIATES, PLLC			
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FILENAME: <u>D:\Civil 3D - 178-11\dwg\178-11 Schedule.dwg - SI-3</u>			WORKING NUMBER I-3
CHECKED BY <u>DBG</u> DATE <u>Jul 09, 2020</u>			SHEET NUMBER 2.2

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

DESCRIPTION OF SHEET	REVISION DATE	WKG. NO.	SH. NO.
PERMANENT PAVEMENT MARKING (9)			
PAVEMENT MARKING - MAMIE ST. (EMERGENCY ROOM ENTRANCE)		PMD-1	9.0
PAVEMENT MARKING - US HWY 49 (STA. 192+84 TO STA. 195+40)		PMD-1A	9.01
PAVEMENT MARKING - US HWY 49 (STA. 195+40 TO STA. 201+84)		PMD-2	9.1
PAVEMENT MARKING - US HWY 49 (STA. 201+84 TO STA. 208+30)		PMD-3	9.2
PAVEMENT MARKING - US HWY 49 (STA. 208+30 TO STA. 214+75)		PMD-4	9.3
PAVEMENT MARKING - US HWY 49 (STA. 214+75 TO STA. 221+20)		PMD-5	9.4
PAVEMENT MARKING - US HWY 49 (STA. 221+20 TO STA. 227+65)		PMD-6	9.5
PAVEMENT MARKING - ARLINGTON LOOP		PMD-7	9.6
PAVEMENT MARKING - CAMP STREET		PMD-8	9.7
PAVEMENT MARKING - ADELINE STREET		PMD-9	9.8
PERMANENT SIGNING PLACEMENT (7)			
PERMANENT SIGNING PLACEMENT - MAMIE ST. (FORREST GENERAL HOSPITAL MAIN ENTRANCE & EMERGENCY ROOM ENTRANCE)		PSP-1	10.0
PERMANENT SIGNING PLACEMENT - ARLINGTON LOOP		PSP-2	10.1
PERMANENT SIGNING PLACEMENT - US HWY 49 (STA. 195+40 TO STA. 201+84)		PSP-3	10.2
PERMANENT SIGNING PLACEMENT - US HWY 49 (STA. 201+84 TO STA. 208+30)		PSP-4	10.3
PERMANENT SIGNING PLACEMENT - US HWY 49 (STA. 208+30 TO STA. 214+75)		PSP-5	10.4
PERMANENT SIGNING PLACEMENT - US HWY 49 (STA. 214+75 TO STA. 221+20)		PSP-6	10.5
PERMANENT SIGNING PLACEMENT - CAMP STREET		PSP-7	10.6
TRAFFIC SIGNAL ITEMS (10)			
TRAFFIC SIGNAL INSTALLATION - US HWY 49 AT CAMP STREET & ARLINGTON LOOP		TSI-1	11.0
TRAFFIC SIGNAL INSTALLATION - US HWY 49 AT ADELINE STREET		TSI-2	11.1
TRAFFIC SIGNAL GENERAL NOTES		TSD-1	11.2
TRAFFIC SIGNAL HEADS, TRAFFIC SIGNAL SIGNS AND WIND SPEEDS		TSD-2	11.3
CURVED MAST ARM AND PEDESTAL POLE DETAILS		TSD-3C	11.4
SIGNAL POLE AND PEDESTAL POLE FOUNDATION DETAILS		TSD-4	11.5
TRAFFIC SIGNAL GROUNDING DETAILS		TSD-5	11.6
CONTROLLER CABINET AND POWER SERVICE DETAILS		TSD-6	11.7
POWER SERVICE PEDESTAL		TSD-7A	11.8
PULL BOX AND CONDUIT TRENCHING DETAILS		TSD-8	11.9
VIDEO/MULTI-SENSOR DETECTION INSTALLATION FOR TRAFFIC SIGNALS		TSD-9V	11.10
LOOP DETECTOR DETAILS		TSD-9L	11.11
TRAFFIC CONTROL PLAN (TYPICAL SIGNAL INSTALLATION)		TSD-10	11.12
STREET NAME SIGN DETAILS		TSD-11	11.13
INTERSECTION DETAILS (4)			
INTERSECTION DETAILS - ADELINE STREET AND US HWY 49		ID-1	12.0
INTERSECTION DETAILS - US HWY 49 AND FORREST GENERAL HOSPITAL MAIN ENTRANCE		ID-2	12.1
INTERSECTION DETAILS - ARLINGTON LOOP/CAMP ST AND US HWY 49		ID-3	12.2
INTERSECTION DETAILS - ARLINGTON LOOP AND 27TH AVENUE		ID-4	12.3
PROJECT REMOVAL (12)			
PROJECT REMOVAL - MAMIE STREET (EMERGENCY ROOM ENTRANCE)		PR-1	13.0
PROJECT REMOVAL - MAMIE STREET (EMERGENCY ROOM ENTRANCE)		PR-1A ER	13.01
PROJECT REMOVAL - MAMIE STREET (FORREST GENERAL HOSPITAL MAIN ENTRANCE)		PR-2	13.1
PROJECT REMOVAL - US HWY 49 (STA. 189+63 TO STA. 196+07)		PR-3	13.2
PROJECT REMOVAL - US HWY 49 (STA. 195+40 TO STA. 201+84)		PR-4	13.3
PROJECT REMOVAL - US HWY 49 (STA. 201+84 TO STA. 208+30)		PR-5	13.4
PROJECT REMOVAL - US HWY 49 (STA. 208+30 TO STA. 214+75)		PR-6	13.5
PROJECT REMOVAL - US HWY 49 (STA. 214+75 TO STA. 221+20)		PR-7	13.6
PROJECT REMOVAL - US HWY 49 (STA. 221+20 TO STA. 227+80)		PR-8	13.7
PROJECT REMOVAL - ARLINGTON LOOP		PR-9	13.8
PROJECT REMOVAL - CAMP STREET		PR-10	13.9
PROJECT REMOVAL - ADELINE STREET		PR-11	13.10

DESCRIPTION OF SHEET	REVISION DATE	WKG. NO.	SH. NO.
STANDARD DRAWINGS - EROSION CONTROL (13)			
TEMPORARY EROSION / SEDIMENT CONTROL APPLICATIONS		ECD-1	14.0
DETAILS OF SEDIMENT BARRIER APPLICATIONS		ECD-2	14.1
DETAILS OF SILT FENCE INSTALLATION		ECD-3	14.2
DITCH CHECK STRUCTURES, TYPICAL APPLICATIONS AND DETAILS		ECD-4	14.3
TEMPORARY EROSION SEDIMENT AND WATER POLLUTION CONTROL MEASURES, SILT FENCE AND HAY BALE DITCH CHECKS		ECD-5	14.4
DETAILS OF EROSION CONTROL WATTLE DITCH CHECK		ECD-6	14.5
ROCK DITCH CHECK		ECD-8	14.6
ROCK DITCH CHECK WITH SUMP EXCAVATION		ECD-9	14.7
INLET PROTECTION TYPICAL APPLICATIONS AND DETAILS		ECD-10	14.8
INLET PROTECTION DETAILS OF WATTLES		ECD-12	14.9
INLET PROTECTION DETAILS OF MANUFACTURED INLET PROTECTION DEVICE		ECD-13	14.10
INLET PROTECTION DETAILS OF SAND BAG		ECD-14	14.11
STABILIZED CONSTRUCTION ENTRANCE		ECD-15	14.12
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MISCELLANEOUS DETAILS - SEWER MANHOLE MODIFICATIONS AT ADELINE STREET		MD-2	15.1
MISCELLANEOUS DETAILS - CITY OF HATTIESBURG WATER & SEWER SYSTEM MODIFICATIONS		MD-3	15.2
MISCELLANEOUS DETAILS - CITY OF HATTIESBURG WATER & SEWER SYSTEM MODIFICATIONS		MD-4	15.3
MISCELLANEOUS DETAILS - WATER SYSTEM & DRAINAGE DETAILS		MD-5	15.4
MISCELLANEOUS DETAILS - FORREST GENERAL HOSPITAL FIBER OPTIC MODIFICATIONS		MD-6	15.5
MISCELLANEOUS DETAILS - DRAINAGE DETAILS		MD-7	15.6
MISCELLANEOUS DETAILS - SPECIAL DESIGN SLOTTED CURB & BARREL PLACEMENT DETAIL		MD-8	15.7
MISCELLANEOUS DETAILS - DRIVE DETAIL		MD-9	15.8
MISCELLANEOUS DETAILS - "DO NOT BLOCK" PAVEMENT MARKING DETAIL		MD-10	15.9
MISCELLANEOUS DETAILS - FORREST GENERAL HOSPITAL EMERGENCY ENTRANCE SIGN DETAILS		MD-11	15.10
ELECTRICAL DETAILS (2)			
ELECTRICAL DETAILS - ELECTRICAL CONSTRUCTION NOTES & ELECTRICAL PANEL SCHEMATIC DIAGRAM & SCHEDULE		EL-1	16.0
ELECTRICAL DETAILS - PULL-SPLICE BOX DETAIL & SITE LOCATION		EL-2	16.1

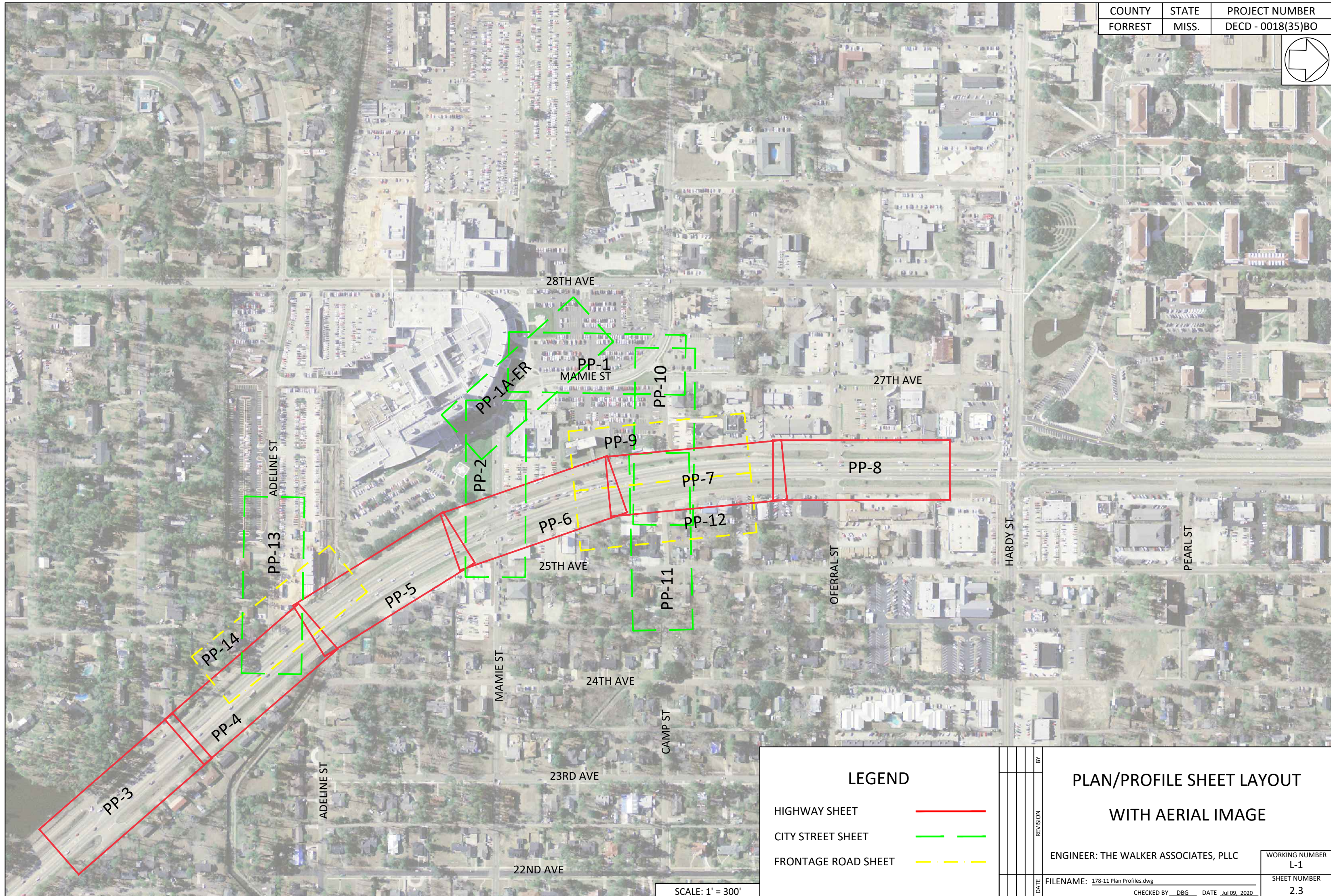
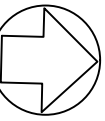


PREPARED BY

PROJECT ENGINEER

7-17-2020
DATE

				BY	SHEET INDEX	
				REVISION		
				DATE	ENGINEER: THE WALKER ASSOCIATES, PLLC	WORKING NUMBER I-2
					FILENAME: D:\Civil 3D - 178-11\dwg\178-11 Schedule.dwg - SI-2	SHEET NUMBER 2.1
					CHECKED BY <u>DBG</u> DATE <u>Jul 09, 2020</u>	



SCALE: 1' = 300'

LEGEND

HIGHWAY SHEET

CITY STREET SHEET

FRONTAGE ROAD SHEET

PLAN/PROFILE SHEET LAYOUT WITH AERIAL IMAGE

ENGINEER: THE WALKER ASSOCIATES, PLLC

WORKING NUMBER L-1

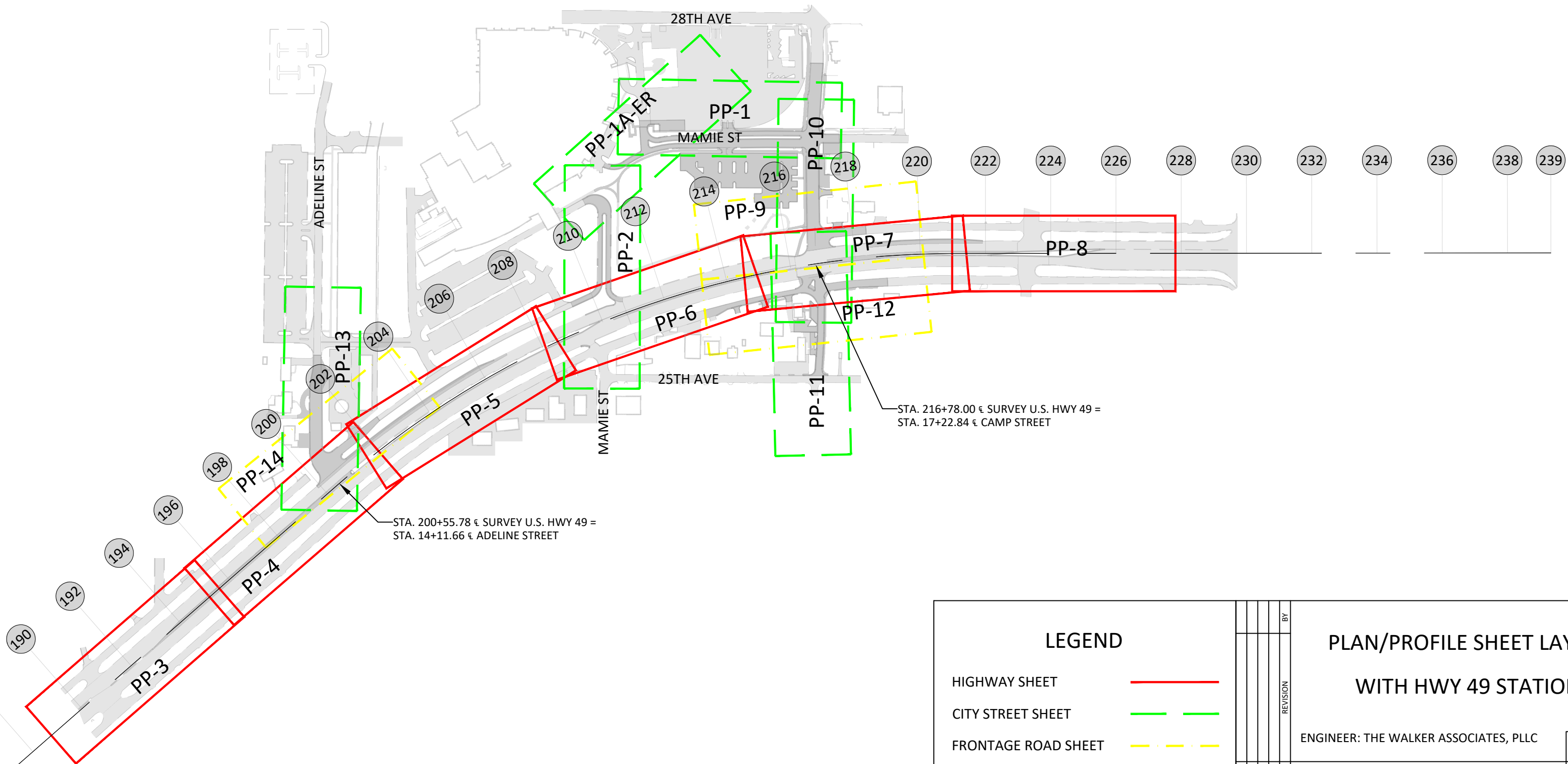
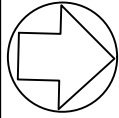
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SHEET NUMBER
2.3

CHECKED BY DBG DATE Jul 09, 2020

DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Plan Profiles.dwg
LAYOUT - HWY 49 STA
Jul 09, 2020 - 10:05
COUNTY: FORREST
DESIGNED BY: DBG
DRAWN BY: BLL
CHECKED BY: DBG

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO



SCALE: 1' = 300'

LEGEND			
HIGHWAY SHEET			
CITY STREET SHEET			
FRONTAGE ROAD SHEET			
		BY	
		REVISION	
		DATE	
		PLAN/PROFILE SHEET LAYOUT WITH HWY 49 STATIONS	
		ENGINEER: THE WALKER ASSOCIATES, PLLC	
		WORKING NUMBER L-2	
		SHEET NUMBER 2.4	
		FILENAME: 178-11 Plan Profiles.dwg	
		CHECKED BY: DBG DATE: Jul 09, 2020	

DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Plan Profiles.dwg
LEGEND
Jul 09, 2020 - 10:05pm
COUNTY: FORREST
DESIGNED BY: DBG
DRAWN BY: BLL
CHECKED BY: DBG

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

ABBREVIATIONS:

AVENUE	AVE
ASPHALT	ASPH.
BACK OF CURB	B.O.C.
BUSINESS	BUS
CONCRETE	CONC.
CURB AND GUTTER	C&G
CORRUGATED POLY VINYL CHLORIDE	CPVC
EAST	E
EDGE OF PAVEMENT	EOP
ELEVATION	ELEV.
ESTIMATED	EST.
EXISTING	EX.
IN PLACE TO REMAIN	I.P.T.R.
INVERT	INV.
LINEAR FEET	L.F.
LOOP	LP
MINIMUM	MIN.
MISCELLANEOUS	MISC.
MODIFIED	MOD.
POUNDS PER SQUARE INCH	P.S.I.
POLY VINYL CHLORIDE	PVC
RADIUS (' INDICATES FEET)	R100.0'
REINFORCED CONCRETE PIPE	RCP
REQUIRED	REQ'D
RESIDENCE	RES
SHOULDER	SHDR.
SQUARE YARDS	S.Y.
SQUARE FEET	S.F.
STATION	STA.
STREET	ST
STREET NAME SIGN	S.N.S.
TO BE REMOVED	T.B.R.
TO BE MODIFIED	T.B.M.
TO BE RELOCATED	T.B.R.L.
VARIABLE	VAR.
WEST	W
WITH	W/

ALIGNMENTS (INCLUDED IN STATIONING):

25TH AVENUE	25TH
27TH AVENUE	27TH
ADELINE STREET	A
CAMP STREET	C
EAST FRONTAGE	EF
MAMIE STREET	M
WEST FRONTAGE	WF

LEGEND:

EXISTING CENTERLINE	----
EXISTING CURB & GUTTER	==
EXISTING DRAINAGE PIPING	- - - -
EXISTING EDGE OF PAVEMENT	----
EXISTING FENCE	=====
EXISTING GAS (SERVICE OR MAIN)	=====
EXISTING OVERHEAD POWER	=====
EXISTING SEWER MAIN (GRAVITY)	=====
EXISTING WATER MAIN	-----
PROPOSED CENTERLINE	----
PROPOSED CURB & GUTTER	=====
PROPOSED CURB & GUTTER (SLOTTED)	=====
PROPOSED EDGE OF PAVEMENT	=====

SYMBOLS:

CENTERLINE	⌀
EXISTING GAS VALVE	GV
EXISTING GAS METER	GM
EXISTING GUY WIRE	—)
EXISTING HYDRANT	⊙
EXISTING IN-ROAD LIGHT	⬤
EXISTING LIGHT POLE	⊙
EXISTING POWER POLE	⊙
EXISTING SEWER MANHOLE	⊙
EXISTING SIGN	⊙
EXISTING WATER METER	WM
EXISTING WATER VALVE	WV
PROPERTY CORNER	⊙
PROPOSED B.O.C. SPOT ELEV.	+ (100.00)
PROPOSED PAVEMENT SPOT ELEV.	+ (100.00)
PROPOSED HYDRANT	⊙
PROPOSED POWER POLE	⊙
TRAFFIC FLOW DIRECTION	→

HATCH LEGEND:

	CONCRETE PAVEMENT REMOVAL
	ASPHALT PAVEMENT REMOVAL
	ASPHALT MILLING (DEPTH AS INDICATED)
	EXISTING PAVEMENT TO REMAIN
	PROPOSED PAVEMENT
	LANDSCAPED MEDIAN

				BY	ABBREVIATIONS, LEGEND & SYMBOLS	
				REVISION		
				DATE		
					ENGINEER: THE WALKER ASSOCIATES, PLLC	WORKING NUMBER A-1
					FILENAME: 178-11 Plan Profiles.dwg	SHEET NUMBER 2.5
					CHECKED BY: DBG	DATE: Jul 09, 2020

FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Plan Profiles.dwg
DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
NOTES
Jul 09, 2020 - 10:05pm
COUNTY: FORREST
DESIGNED BY: DBG
DRAWN BY: BLL
CHECKED BY: DBG

GENERAL NOTES:

- IT IS A SPECIFIC REQUIREMENT OF THIS PROJECT THAT THE PRIME CONTRACTOR'S JOB SUPERINTENDENT BE ON THE JOB AT ALL TIMES WORK IS BEING PERFORMED.
- CONTRACTOR SHALL RESTORE ALL AREAS OUTSIDE OF THE CONSTRUCTION LIMITS DAMAGED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION AT NO COST TO THE OWNER. IN ADDITION, ALL AREAS SHALL BE MAINTAINED IN A NEAT AND ORDERLY FASHION DURING THE COURSE OF THE WORK.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION. SHOULD ANY SPECIAL EQUIPMENT BE REQUIRED TO PERFORM WORK OVER AND AROUND UTILITIES, THE CONTRACTOR SHALL PROVIDE SUCH EQUIPMENT AT NO COST TO THE OWNER.
- WRITTEN DIMENSIONS AND ELEVATIONS SHALL GOVERN OVER SCALED DIMENSIONS AND ELEVATIONS.
- IF THE CONTRACTOR DURING THE COURSE OF THE WORK FINDS ANY DISCREPANCIES BETWEEN THE CONSTRUCTION PLANS AND THE ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER PRIOR TO ANY ADDITIONAL WORK. THE ENGINEER WILL MAKE CORRECTIONS AND INTERPRETATIONS DEEMED NECESSARY FOR FULFILLING THE INTENT OF THE PLANS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL INSTALL EROSION CONTROL TO PREVENT EROSION EVEN IF NOT SHOWN.
- CONTRACTOR SHALL COORDINATE WITH THE OWNER AND ENGINEER RELATIVE TO PLACEMENT OF ALL ITEMS OF WORK PRIOR TO ANY WORK BEING PERFORMED.
- JOINT SEALANT SHALL BE DOW CORNING 890-SL SELF-LEVELING SILICONE OR APPROVED EQUAL.
- REINFORCING STEEL SHALL BE DEFORMED BARS GRADE 60. FIELD BENDING OF REINFORCING BARS IS PERMITTED.
- REINFORCING SHALL NOT EXTEND THROUGH ANY CONTROL OR EXPANSION JOINTS.
- THE LOCATION AND SPACING OF SIGNS, SHOWN ON THE TRAFFIC CONTROL PLANS, ARE APPROXIMATE AND MAY BE ADJUSTED AS NECESSARY TO FIT THE FIELD CONDITIONS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT EXISTING STRUCTURES SUCH AS PIPES, INLETS, APRONS, BRIDGES, ETC. FROM DAMAGE WHICH MIGHT OCCUR DURING CONSTRUCTION. EXTREME CARE SHOULD BE EXERCISED IN UNDERCUT AREAS AND THE UNDERCUT DEPTH MAY BE ADJUSTED AT CROSS DRAINS, AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL REPLACE OR REPAIR, AS DIRECTED BY THE ENGINEER, ANY STRUCTURES DAMAGED DURING THE LIFE OF THE CONTRACT. NO PAYMENT WILL BE MADE FOR REPLACEMENT OR REPAIR OF DAMAGED ITEMS.
- VOIDS CREATED BY THE REMOVAL OF POSTS; CONCRETE ANCHORS, FOOTINGS, ETC, SHALL BE BACKFILLED AND TAMPED IN ACCORDANCE WITH SECTION 203 OF THE MISSISSIPPI STANDARD SPECIFICATIONS FOR STATE AID ROAD AND BRIDGE CONSTRUCTION.
- ALL PLASTIC DRUMS SHALL HAVE A BALLASTING COLLAR MADE FROM RECYCLED TRUCK TIRES OR OTHER SUITABLE MATERIAL.
- REMOVAL OF RAISED PAVEMENT MARKERS IS NOT A SEPARATE PAY ITEM.
- CONTRACTOR SHALL MAKE THE APPLICATION FOR POWER SERVICE. ALL COSTS ASSOCIATED WITH THIS SHALL BE ABSORBED.
- THE ENDS OF EXISTING PIPES TO BE ABANDONED IN PLACE SHALL BE PLUGGED WITH CONCRETE. (NOT A SEPARATE PAY ITEM)
- ALL POST LENGTHS, FOR BOTH SIGNS AND SIGNALS, SHALL BE VERIFIED IN THE FIELD PRIOR TO FABRICATION.
- ALL PIPE JOINTS ARE TO BE WRAPPED IN TYPE V GEOTEXTILE FABRIC, 2 FEET IN WIDTH. ALL PICKUP HOLES ARE TO BE PLUGGED AND COVERED WITH TYPE V GEOTEXTILE FABRIC TO THE SATISFACTION OF THE ENGINEER (NOT A SEPARATE PAY ITEM).
- EROSION: EROSION CONTROL SHALL CONSISTS OF FURNISHING, CONSTRUCTING AND MAINTAINING WATTLES AROUND INLETS, SWALE AREAS, SMALL DITCHES, AND OTHER AS NECESSARY. THE CONTRACTOR WILL BE RESPONSIBLE FOR REMOVING AND DISPOSING OF THE WATTLES AND SILT ACCUMULATIONS. WATTLES USED AROUND INLETS SHALL HAVE A DIAMETER OF 20 INCHES (20") AND SHALL BE OF ADEQUATE LENGTH TO MEET FIELD CONDITIONS. ALL WATTLES SHALL BE STAKED NO MORE THAN 3' APART. THE STAKES SHALL BE OF ADEQUATE SIZE TO STABILIZE THE WATTLES TO THE SATISFACTION OF THE ENGINEER.
- 35% SHRINKAGE FACTOR USED IN THE EARTHWORK CALCULATIONS IS FOR DESIGN ESTIMATING PURPOSES ONLY.
- ALL TEMPORARY TRAFFIC CONTROL DEVICES ON THIS PROJECT SHOULD COMPLY WITH PART VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
- UTILITIES ON THE DRAWINGS ARE SHOWN IN THEIR ORIGINAL LOCATION BASED UPON THE ESTIMATED INFORMATION AVAILABLE TO THE ENGINEER. THE ENGINEER CANNOT AND DOES NOT WARRANT THAT THIS INFORMATION IS COMPLETE OR ACCURATE. THE CONTRACTOR MUST COORDINATE DIRECTLY WITH THE INVOLVED UTILITY OWNERS TO HAVE UNDERGROUND UTILITY LINES FIELD LOCATED IN ADVANCE OF CONSTRUCTION.
- THE CONTRACTOR IS TO REMOVE, OR REMOVE AND RESET, ANY SIGNS WHICH CONFLICT WITH CONSTRUCTION (NOT A SEPARATE PAY ITEM).
- WORK FOR THIS PROJECT REQUIRES EXCAVATION IN THE IMMEDIATE VICINITY OF TRAFFIC AND ADJACENT PROPERTIES. THEREFORE, THE RISK OF A FAILURE OCCURRING DURING THE EXCAVATION REQUIRES THAT EXTREME CAUTION BE EXERCISED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PLACE WHAT BRACING, SHORING, OR GROUND SUPPORT SYSTEM THAT IS DEEMED NECESSARY TO PREVENT A FAILURE AND PROTECT THE PERSONS WORKING NEAR THE EXCAVATION, THE PUBLIC THAT MAY BE ABOVE THE EXCAVATION, OR ANY STRUCTURE ADJACENT TO THE EXCAVATION. ALL COSTS FOR ANY PROTECTIVE MEASURES, INCLUDING THE MATERIALS AND LABOR FOR DESIGNING, DRAWING AND CONSTRUCTING THE FACILITY, SHALL BE INCLUDED IN THE PRICE BID FOR CONTRACT ITEMS.
- FLORESCENT ORANGE SHEETING SHALL BE USED ON ALL CONSTRUCTION AND TRAFFIC CONTROL SIGNS EXCEPT FOR REGULATORY SIGNS DESIGNATED ON THE PLANS TO BE BLACK LEGEND AND BORDER ON WHITE BACKGROUND.
- WHERE MILLING OF THE ROADWAY LANES IS REQUIRED, THE CONTRACTOR SHALL PROVIDE OUTLETS IN THE EXISTING SHOULDERS AT SUFFICIENT INTERVALS TO PREVENT POOLING OR STANDING WATER ON THE MILLED SURFACE (ABSORBED ITEM).
- THE EROSION CONTROL DEVICES REFERENCED IN THESE PLANS ARE THE MINIMUM REQUIREMENT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT SILT DOES NOT LEAVE THE RIGHT OF WAY OR CONTAMINATE WATERS OF THE U.S. DURING CONSTRUCTION (SEE SWPPP ON SHEET NO. 8.0, WK. NO. ECN-1).
- TOE WALLS REQUIRED ON ALL DOWNSTREAM FLARED END SECTIONS. TOE WALLS AT UPSTREAM FLARED END SECTIONS WILL BE CONSTRUCTED WHERE SHOW ON PLANS/DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL COMMERCIAL BUSINESSES WITHIN THE CONSTRUCTION LIMITS. SHORT DURATION CLOSURES MAY BE ALLOWED, BUT THEY MUST BE COORDINATED WITH THE BUSINESS OWNER.
- ELEVATIONS BASED ON MEAN SEA LEVEL DATUM.

UTILITY OWNERS:

CABLE & FIBER OPTIC - COMCAST CABLE - 601-268-1188
GAS - SPIRE ENERGY: 1-877-945-5427
POWER - MISSISSIPPI POWER COMPANY - ENGINEERING DEPARTMENT: 601-545-4121
TELEPHONE - AT&T 1-800-227-6477
WATER & SEWER - CITY OF HATTIESBURG PUBLIC SERVICES DEPARTMENT: 601-545-4540, WATER/SEWER DIVISION: 601-545-4545

MDOT/CITY FIBER - CONTACT MDOT I.T.S. AT 601-359-1454 OR 601-359-1993 BEFORE CONSTRUCTION BEGINS TO LOCATE EXISTING FIBER.
SITE ALSO INCLUDES FIBER OPTIC, WATER, & SEWER SYSTEMS OWNED AND OPERATED BY FORREST GENERAL HOSPITAL. CONTACT THE ENGINEERING DEPARTMENT FOR MORE INFORMATION ON THESE SERVICES (601-288-2730 OR 601-288-2710).

UTILITY NOTES:

- EXTREME CAUTION IS RECOMMENDED FOR LOCATION OF WATER, GAS, SEWER, AND FIBER OPTIC LINES DUE TO UNAVAILABILITY OF RECORDED LOCATIONS AND THE UNAVAILABILITY TO LOCATE ALL LINES. THE CONTRACTOR SHALL ENSURE ALL UTILITIES ARE PROTECTED DURING CONSTRUCTION. CONTRACTOR SHALL EMPLOY ALL MEANS NECESSARY TO PROTECT EXISTING UTILITIES EVEN IF NOT INCLUDED IN THE PROJECT PLANS/SPECIFICATIONS.
- THE PROFESSIONAL ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF UNDERGROUND UTILITIES SHOWN.
- EXISTING UTILITIES CONFLICTING WITH PROPOSED CONSTRUCTION TO BE ADJUSTED BY OTHERS IN ACCORDANCE WITH SECTION SA II-2-3 OF THE S.O.P.

HYDRAULIC DESIGN:

<25 ACRES - RATIONAL METHOD
>25 ACRES - "FLOOD CHARACTERISTICS OF MISSISSIPPI STREAMS" 1991

SHRINKAGE FACTORS:

GRANULAR MATERIAL (LVM) = 1.50
UNCLASSIFIED EXCAVATION = 1.35

DESIGN DATA:

- CAMP STREET:

--

CURRENT ADT (2010)

=1421

--

DESIGN SPEED

=20 MPH
- MAMIE STREET WEST:

--

CURRENT ADT (2017)

=4000

--

DESIGN SPEED

=20 MPH
- MAMIE STREET EAST:

--

CURRENT ADT (2017)

=3600

--

DESIGN SPEED

=20 MPH
- US 49:

--

CURRENT ADT (2017)

=31,000

--

DESIGN SPEED

=45 MPH
- ADELINE STREET:

--

CURRENT ADT (2017)

=7205

--

DESIGN SPEED

=20 MPH
- WEST FRONTAGE ROAD BETWEEN MAMIE AND CAMP STREET:

--

CURRENT ADT (2010)

=697

--

DESIGN SPEED

=20 MPH

CONSTRUCTION PHASING:

CONTRACTOR SHALL REFER TO CONSTRUCTION PHASING SHEETS FOR ENGINEER'S RECOMMENDATIONS.

- WEST FRONTAGE ROAD BETWEEN CAMP AND O'FERRAL STREET:

--

CURRENT ADT (2010)

=1187

--

DESIGN SPEED

=20 MPH
- WEST FRONTAGE ROAD BETWEEN ADELINE AND MAMIE STREET

--

CURRENT ADT (2010)

=2297

--

DESIGN SPEED

=20 MPH
- EAST FRONTAGE ROAD BETWEEN MAMIE AND CAMP STREET

--

CURRENT ADT (2010)

=1005

--

DESIGN SPEED

=20 MPH
- EAST FRONTAGE ROAD BETWEEN CAMP AND O'FERRAL STREET

--

CURRENT ADT (2010)

=1183

--

DESIGN SPEED

=20 MPH

GENERAL NOTES

ENGINEER: THE WALKER ASSOCIATES, PLLC

WORKING NUMBER
GN-1

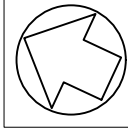
FILENAME: 178-11 Plan Profiles.dwg

CHECKED BY: DBG DATE Jul 09, 2020

SHEET NUMBER
2.6

FILE NAME: D:\Civil\3D - 178-11\dwg\178-11 Traffic Signal Sheets.dwg
DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
PH-1
Jul 09, 2020 - 10:06pm
COUNTY: FORREST
DESIGNED BY: DBG
DRAWN BY: BLL
CHECKED BY: DBG

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO



ALL PERMANENT STRIPING AND SIGNAGE (CONTRACTOR SHALL COVER SIGNS THAT DO NOT APPLY UNTIL A LATER PHASE OF CONSTRUCTION AS DIRECTED BY THE ENGINEER - NOT A SEPARATE PAY ITEM) SHALL BE INSTALLED FOR EACH PHASE AT THE CONCLUSION OF THE PHASE AND PRIOR TO REMOVAL OF TEMPORARY CONSTRUCTION SIGNING WITH EXCEPTION OF THE STOP BARS ALONG HIGHWAY 49 WHICH ARE TO BE INSTALLED AT THE CONCLUSION OF PHASE 3.

PHASING NOTES:

Contractor shall utilize the following phasing plan. Any deviation from this phasing plan shall be submitted to the Engineer in writing.

PHASE 1

- Consists of all improvements necessary for complete operation of the Camp Street/Mamie Street intersection. Phase includes all improvements between 27th Avenue and Highway 49, and all improvements on the West Frontage Road from Camp Street to Mamie Street. Phase also includes work within the parking lot between Mamie Street and West Frontage road and south of Camp Street.
- No access between the frontage roads and Highway 49 will be permitted during this phase. It will be the responsibility of the contractor to ensure that the frontage road access is barricaded off (see sheet TCP-10) until Phases 2 thru 3 have been completed.

PHASE 2

- Consists of all improvements necessary for complete operation of the Highway 49/Camp Street intersection not included in phase 1 with exception of signal operation. Phase includes median work along Highway 49 from Sta. 213+80 to end of project on Highway 49, all improvements between 25th Avenue and Highway 49, and all non participating items along East Camp Street adjacent to Attorney office.
- No access between the frontage roads and Highway 49 will be permitted during this phase. It will be the responsibility of the contractor to ensure that the frontage road access is barricaded off (see sheet TCP-10) until Phases 2 thru 3 have been completed.

PHASE 3

- Consists of all improvements necessary for complete operation of the Highway 49/Adeline Street intersection with exception of the signal operation. All improvements to the West Frontage Road, the addition of the Highway 49 southbound turn lane, Highway 49 median work from Sta. 194+00 to Sta. 202+60, and all improvements to Adeline Street shall be in place prior to the commencement of Phase 4 work.
- At the completion of this phase, the signals at Adeline Street and Camp Street may be put into operation. Until both signals are operational Adeline Street will be open to vehicular traffic for the Southbound lanes ONLY. Highway 49 Northbound traffic will not be allowed to utilize Adeline Street until the proposed signals at Camp and Adeline are in operation and the Mamie Street signal is out of operation.

PHASE 4

- Consists of Highway 49 median work from Sta. 202+60 to 213+80.
- Both signals shall be operational before Phase 4 work can begin.

PHASE 5

Consists of all improvements necessary for complete operation of the Highway/Mamie Street intersection not included in Phases 1 through 4. Phase includes all improvements to the West and East Frontage Roads not completed through Phase 5, and work along Mamie Street from Sta. 17+90 east to intersection.

PHASE 6

- Consists of improvements along Mamie Street from Sta. 12+40 to the ER exit.
- Phase also includes work within the emergency room parking lot adjacent to Mamie Street.

PHASE 7

- Consists of improvements along Mamie Street not included in Phases 1 through 6.

NOTE: ALL WORK PERFORMED ON US HIGHWAY 49 SHALL BE PERFORMED BETWEEN THE HOURS OF 6:00 P.M. & 6:00 A.M. WITH ONE-LANE CLOSURES. ALL US HIGHWAY 49 LANES *MUST* BE OPEN TO TRAFFIC WITH NO LANE CLOSURES BY 6:00 A.M. EACH MORNING. ALL ITEMS NECESSARY FOR NIGHT WORK SHALL BE INCLUDED IN MAINTENANCE OF TRAFFIC PAY ITEMS.

SCALE: 1' = 200'

CONSTRUCTION PHASING

ENGINEER: THE WALKER ASSOCIATES, PLLC

FILENAME: 178-11 Traffic Signal Sheets.dwg

CHECKED BY: DBG DATE: Jul 09, 2020

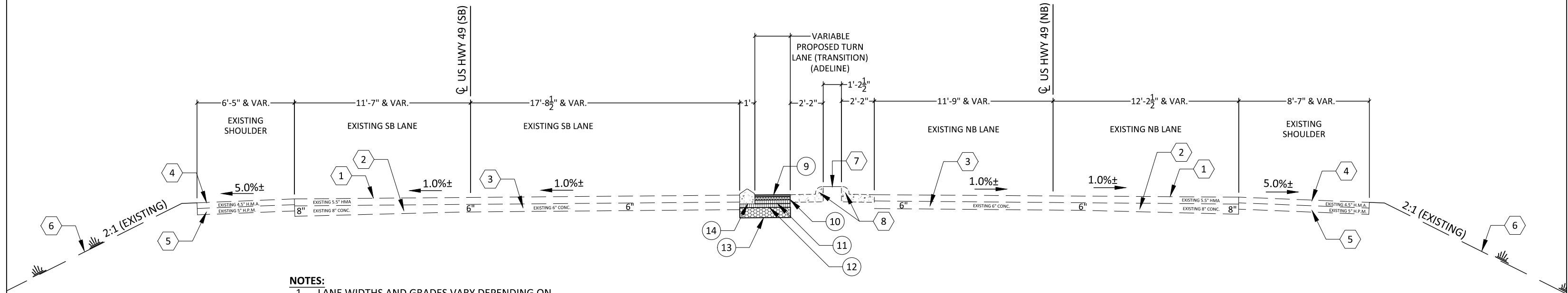
WORKING NUMBER
PH-1

SHEET NUMBER
2.7

FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Typical Sections.dwg
DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
T51
Jul 09, 2020 - 10:06pm
COUNTY: FORREST
DESIGNED BY: DBG
DRAWN BY: JGK
CHECKED BY: DBG

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

TYPICAL SECTION
US HWY 49
(STA. 192+84 TO STA. 194+00)
(SHOWN AT STA. 193+50)



- NOTES:**
1. LANE WIDTHS AND GRADES VARY DEPENDING ON STATIONING. WIDTHS AND GRADES SHOWN ARE APPROXIMATED AND MAY NOT EXACTLY MATCH FIELD CONDITIONS.
 2. EXISTING CONCRETE MEDIAN INDICATED AS T.B.R. SHALL BE COMPLETELY REMOVED INCLUDING ALL SUBGRADE COMPONENTS (PAVING, GRAVEL, ETC.) TO ALLOW FOR BORROW EXCAVATION FOR PLANTING MATERIALS.
 3. ALL CURB SHALL BE FORMED/SHAPED USING A CONCRETE MULE OR CURB MACHINE TO PROVIDE UNIFORM GEOMETRY AND FINISH.

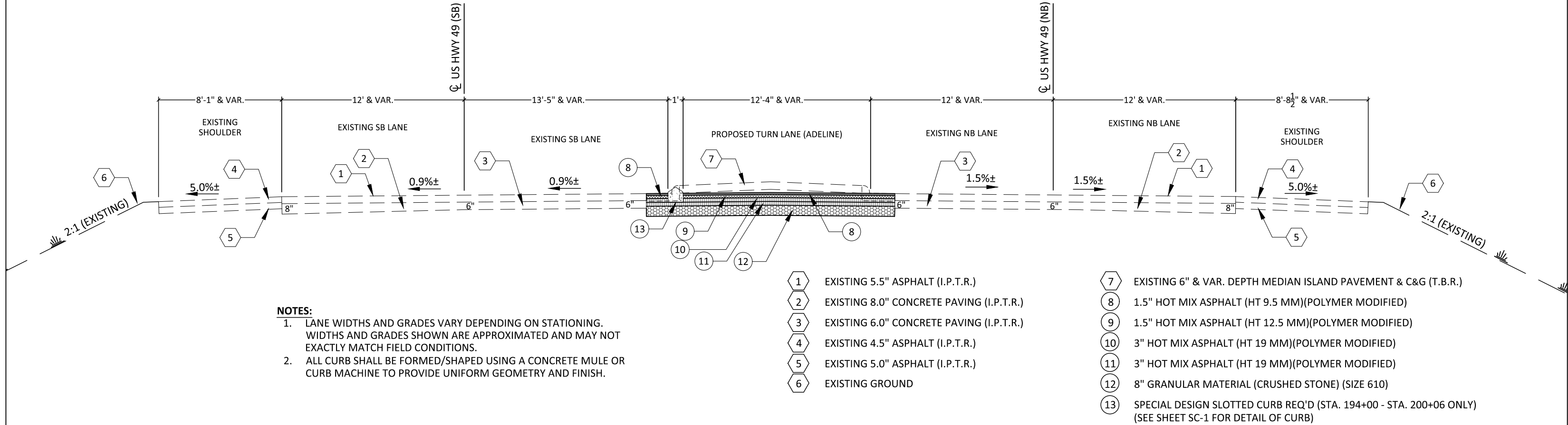
- | | | | |
|---|--|----|--|
| 1 | EXISTING 5.5" ASPHALT (I.P.T.R.) | 9 | 1.5" HOT MIX ASPHALT (HT 9.5 MM)(POLYMER MODIFIED) |
| 2 | EXISTING 8.0" CONCRETE PAVING (I.P.T.R.) | 10 | 1.5" HOT MIX ASPHALT (HT 12.5 MM)(POLYMER MODIFIED) |
| 3 | EXISTING 6.0" CONCRETE PAVING (I.P.T.R.) | 11 | 3" HOT MIX ASPHALT (HT 19 MM)(POLYMER MODIFIED) |
| 4 | EXISTING 4.5" ASPHALT (I.P.T.R.) | 12 | 3" HOT MIX ASPHALT (HT 19 MM) (POLYMER MODIFIED) |
| 5 | EXISTING 5.0" ASPHALT (I.P.T.R.) | 13 | 8" GRANULAR MATERIAL (CRUSHED STONE) (SIZE 610) |
| 6 | EXISTING GROUND | 14 | SPECIAL DESIGN SLOTTED CURB REQ'D (STA. 192+84 - STA. 194+00 ONLY) |
| 7 | EXISTING 6" & VAR. DEPTH MEDIAN ISLAND PAVEMENT (T.B.R.) | | (SEE SHEET SC-1 FOR DETAIL OF CURB) |
| 8 | EXISTING CURB (T.B.R.) | | |

			BY	TYPICAL SECTION US HWY 49 (STA. 192+84 TO STA. 194+00)	
			REVISION		
			DATE	ENGINEER: THE WALKER ASSOCIATES, PLLC	WORKING NUMBER TS-1
				FILENAME: 178-11 Typical Sections.dwg	SHEET NUMBER 3.0
				CHECKED BY: DBG DATE: Jul 09, 2020	

DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Typical Sections.dwg
TS2
Jul 09, 2020 - 10:06pm
COUNTY: FORREST
DESIGNED BY: DBG
DRAWN BY: JGK
CHECKED BY: DBG

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

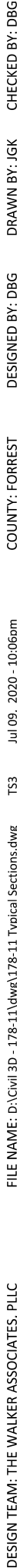
TYPICAL SECTION
US HWY 49
(STA. 194+00 TO STA. 201+07)
(SHOWN AT 198+00)



TYPICAL SECTION US HWY 49 (STA. 194+00 TO STA. 201+07)			
ENGINEER: THE WALKER ASSOCIATES, PLLC			WORKING NUMBER TS-2
FILENAME: 178-11 Typical Sections.dwg			SHEET NUMBER 3.1
DATE	CHECKED BY: DBG	DATE: Jul 09, 2020	

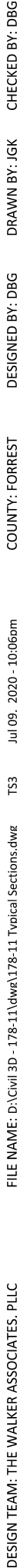
DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
FILE NAME: D:\Civl 3D - 178-11\dwg\178-11 Twp\al Sections.dwg
TS3
Jul 09, 2020 - 10:06am
COUNTY: FOREST
DESIGNED BY: DBC
DRAWN BY: JGK
CHECKED BY: DBC

DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
FILE NAME: D:\Civl 3D - 178-11\dwg\178-11 Twp\al Sections.dwg
TS3
Jul 09, 2020 - 10:06am
COUNTY: FOREST
DESIGNED BY: DBC
DRAWN BY: JGK
CHECKED BY: DBC

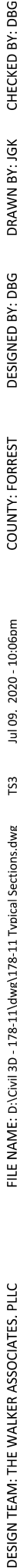


DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
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Jul 09, 2020 - 10:06am
COUNTY: FOREST
DESIGNED BY: DBC
DRAWN BY: JGK
CHECKED BY: DBC

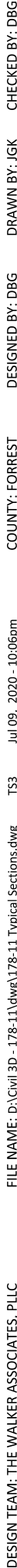
- DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
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Jul 09, 2020 - 10:06am
COUNTY: FOREST
DESIGNED BY: DBC
DRAWN BY: JGK
CHECKED BY: DBC



- DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
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TS3
Jul 09, 2020 - 10:06am
COUNTY: FOREST
DESIGNED BY: DBC
DRAWN BY: JGK
CHECKED BY: DBC



DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
FILE NAME: D:\Civl 3D - 178-11\dwg\178-11 Twp\al Sections.dwg
TS3 Jul 09, 2020 - 10:06am
COUNTY: FOREST
DESIGNED BY: DBC
DRAWN BY: JGK
CHECKED BY: DBC



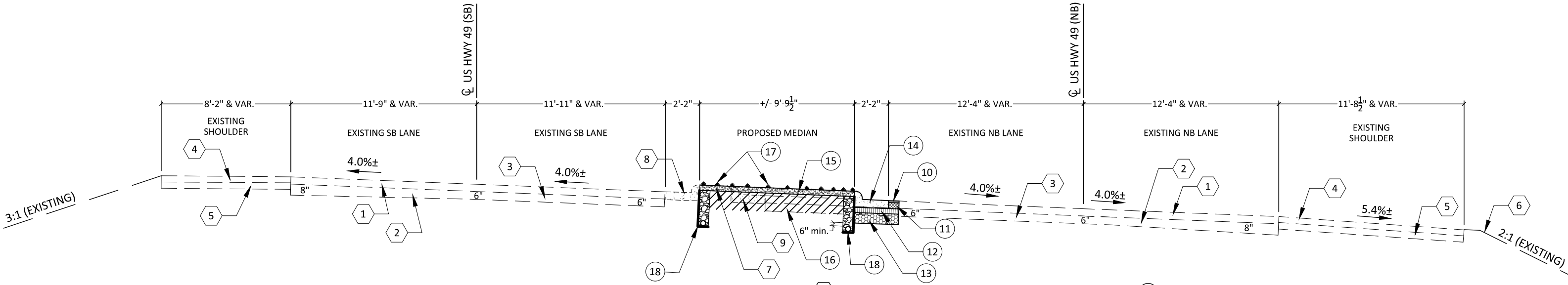
DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
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TS3 Jul 09, 2020 - 10:06am
COUNTY: FOREST
DESIGNED BY: DBC
DRAWN BY: JGK
CHECKED BY: DBC

DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
FILE NAME: D:\Civl 3D - 178-11\dwg\178-11 Twp\al Sections.dwg
TS3 Jul 09, 2020 - 10:06am
COUNTY: FOREST
DESIGNED BY: DBC
DRAWN BY: JGK
CHECKED BY: DBC

DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Typical Sections.dwg
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Jul 09, 2020 - 10:06pm
COUNTY: FORREST
DESIGNED BY: DBG
DRAWN BY: JGK
CHECKED BY: DBG

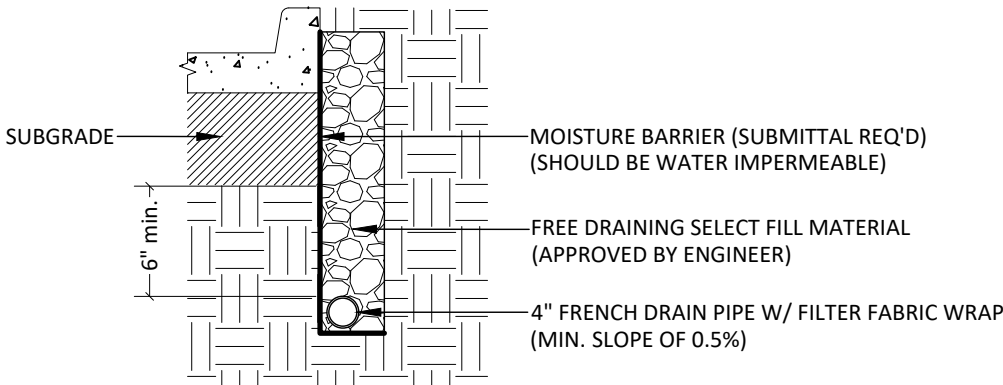
COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

TYPICAL SECTION
US HWY 49
(STA. 206+50 TO STA. 209+60)
(SHOWN AT STA. 207+50)

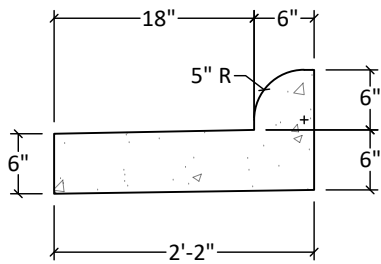


- NOTES:**
1. LANE WIDTHS AND GRADES VARY DEPENDING ON STATIONING. WIDTHS AND GRADES SHOWN ARE APPROXIMATED AND MAY NOT EXACTLY MATCH FIELD CONDITIONS.
 2. EXISTING CONCRETE MEDIAN INDICATED AS T.B.R. SHALL BE COMPLETELY REMOVED INCLUDING ALL SUBGRADE COMPONENTS (PAVING, GRAVEL, ETC.) TO ALLOW FOR BORROW EXCAVATION FOR PLANTING MATERIALS.
 3. ALL CURB SHALL BE FORMED/SHAPED USING A CONCRETE MULE OR CURB MACHINE TO PROVIDE UNIFORM GEOMETRY AND FINISH.

- | | | | |
|---|--|----|---|
| 1 | EXISTING 5.5" ASPHALT (I.P.T.R.) | 10 | 1.5" HOT MIX ASPHALT (HT 9.5 MM)(POLYMER MODIFIED)(TRENCH WIDENING) |
| 2 | EXISTING 8.0" CONCRETE PAVING (I.P.T.R.) | 11 | 4.5" HOT MIX ASPHALT (HT 19 MM)(POLYMER MODIFIED)(TRENCH WIDENING) |
| 3 | EXISTING 6.0" CONCRETE PAVING (I.P.T.R.) | 12 | 3" HOT MIX ASPHALT BASE COURSE (HT 19 MM)(POLYMER MODIFIED) |
| 4 | EXISTING 4.5" ASPHALT (I.P.T.R.) | 13 | 8" GRANULAR MATERIAL (CRUSHED STONE) (SIZE 610) |
| 5 | EXISTING 5.0" ASPHALT (I.P.T.R.) | 14 | TYPE 3B (MODIFIED) CURB & GUTTER |
| 6 | EXISTING GROUND | 15 | 4" TOPSOIL |
| 7 | EXISTING 6" & VAR. DEPTH MEDIAN ISLAND PAVEMENT (T.B.R.) | 16 | BORROW EXCAVATION, AH, FME, CLASS B9 |
| 8 | EXISTING INTEGRAL CURB (I.P.T.R.) | 17 | SOLID SOD |
| 9 | EXISTING MONOLITHIC CURB (T.B.R.) | 18 | FRENCH DRAIN |



TYPICAL FRENCH DRAIN DETAIL
SCALE: NTS



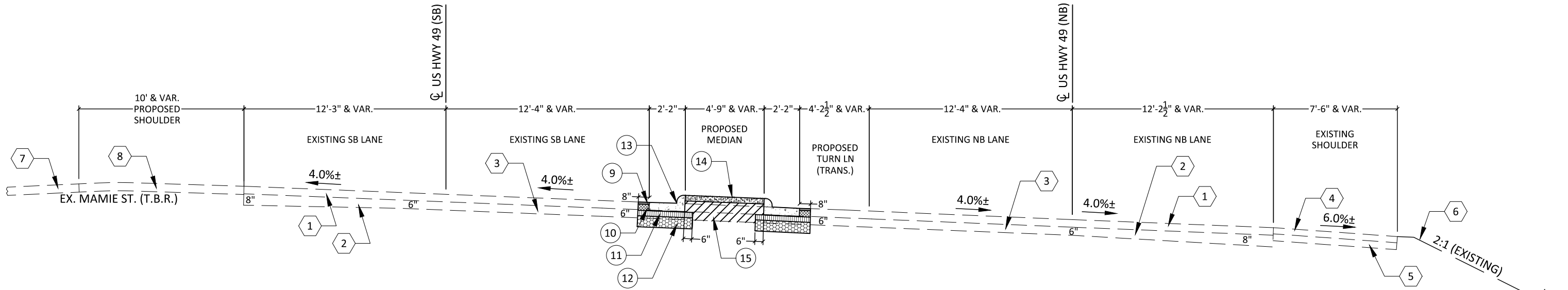
DETAIL OF TYPE 3B MODIFIED
MEDIAN CURB AND GUTTER
SCALE: NTS

				TYPICAL SECTION US HWY 49 (STA. 206+50 TO STA. 209+60)	
				ENGINEER: THE WALKER ASSOCIATES, PLLC	WORKING NUMBER TS-4
				FILENAME: 178-11 Typical Sections.dwg	SHEET NUMBER 3.3
				CHECKED BY: DBG	DATE: Jul 09, 2020

DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Typical Sections.dwg
TSS
Jul 09, 2020 - 10:06pm
COUNTY: FORREST
DESIGNED BY: DBG
DRAWN BY: JGK
CHECKED BY: DBG

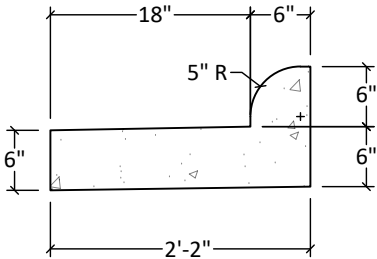
COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

TYPICAL SECTION
US HWY 49
(STA. 209+60 TO STA. 210+00)
(SHOWN AT STA. 209+65)



- NOTES:**
1. LANE WIDTHS AND GRADES VARY DEPENDING ON STATIONING. WIDTHS AND GRADES SHOWN ARE APPROXIMATED AND MAY NOT EXACTLY MATCH FIELD CONDITIONS.
 2. EXISTING CONCRETE MEDIAN INDICATED AS T.B.R. SHALL BE COMPLETELY REMOVED INCLUDING ALL SUBGRADE COMPONENTS (PAVING, GRAVEL, ETC.) TO ALLOW FOR BORROW EXCAVATION FOR PLANTING MATERIALS.
 3. ALL CURB SHALL BE FORMED/SHAPED USING A CONCRETE MULE OR CURB MACHINE TO PROVIDE UNIFORM GEOMETRY AND FINISH.

- | | | | |
|---|---|----|---|
| 1 | EXISTING 5.5" ASPHALT (I.P.T.R.) | 9 | 1.5" HOT MIX ASPHALT (HT 9.5 MM) (POLYMER MODIFIED) (TRENCH WIDENING) |
| 2 | EXISTING 8.0" CONCRETE PAVING (I.P.T.R.) | 10 | 4.5" HOT MIX ASPHALT (HT 19 MM) (POLYMER MODIFIED) (TRENCH WIDENING) |
| 3 | EXISTING 6.0" CONCRETE PAVING (I.P.T.R.) | 11 | 3.0" HOT MIX ASPHALT (HT 19 MM) (POLYMER MODIFIED) |
| 4 | EXISTING 4.5" ASPHALT (I.P.T.R.) | 12 | 8" GRANULAR MATERIAL (CRUSHED STONE) (SIZE 610) |
| 5 | EXISTING 5.0" ASPHALT (I.P.T.R.) | 13 | TYPE 3B (MODIFIED) CURB & GUTTER |
| 6 | EXISTING GROUND | 14 | 4" STAMPED CONCRETE |
| 7 | EXISTING ASPHALT (UNKNOWN DEPTH) (T.B.R.) | 15 | BORROW EXCAVATION, AH, FME, CLASS B9 |
| 8 | EXISTING ASPHALT (I.P.T.R. AS SHOULDER) | | |



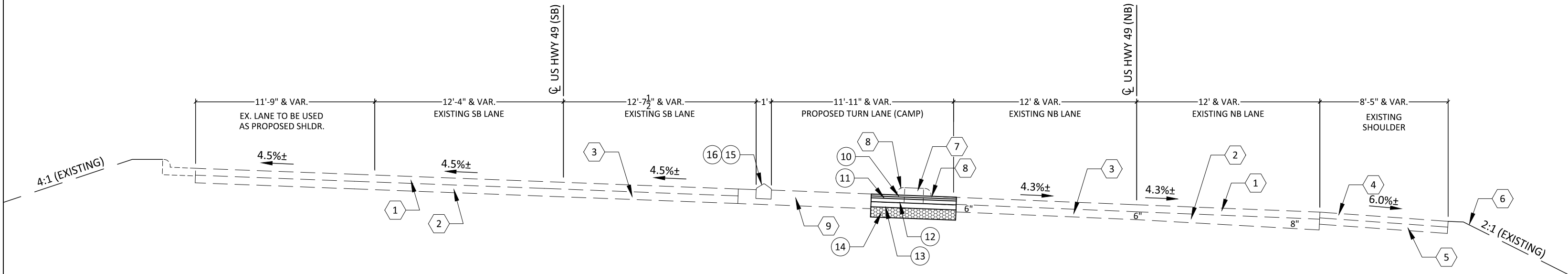
DETAIL OF TYPE 3B MODIFIED
MEDIAN CURB AND GUTTER
SCALE: NTS

TYPICAL SECTION US HWY 49 (STA. 209+60 TO STA. 210+00)			
ENGINEER: THE WALKER ASSOCIATES, PLLC			WORKING NUMBER TS-5
FILENAME: 178-11 Typical Sections.dwg			SHEET NUMBER 3.4
DATE	CHECKED BY	DATE	

DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Typical Sections.dwg
TSG
Jul 09, 2020 - 10:06pm
COUNTY: FORREST
DESIGNED BY: DBG
DRAWN BY: JGK
CHECKED BY: DBG

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

TYPICAL SECTION
US HWY 49
(STA. 210+00 TO STA. 215+66)
(SHOWN AT STA. 214+50)



NOTES:

1. LANE WIDTHS AND GRADES VARY DEPENDING ON STATIONING. WIDTHS AND GRADES SHOWN ARE APPROXIMATED AND MAY NOT EXACTLY MATCH FIELD CONDITIONS.
2. A PAY ITEM S-501-G IS ESTABLISHED FOR THE USE OF #4, 8" DOWELS ON 18" CENTERS FOR THE SPECIAL DESIGN SLOTTED CURB WHICH SHALL BE USED IN THE EVENT THAT CONCRETE IS FOUND AT A DEPTH OF LESS THAN THE 8" ASPHALT MILLING DEPTH.
3. ALL CURB SHALL BE FORMED/SHAPED USING CONCRETE MULE OR CURB MACHINE TO PROVIDE UNIFORM GEOMETRY AND FINISH.

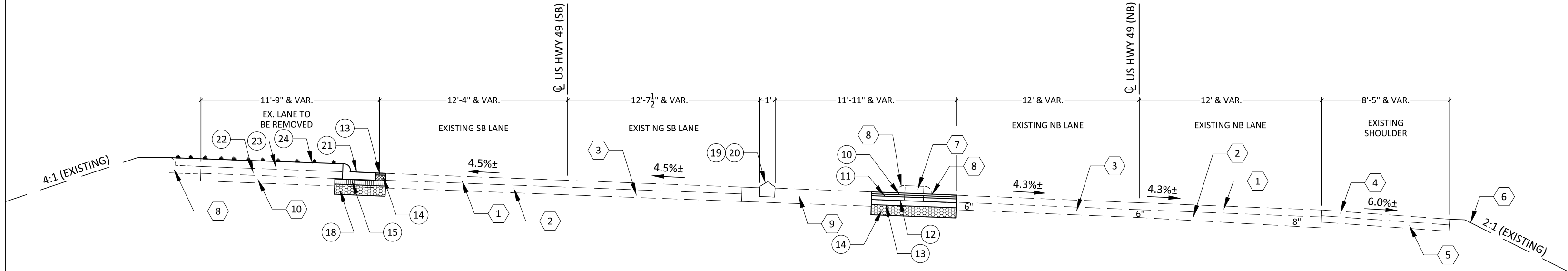
- | | | | |
|---|--|----|---|
| 1 | EXISTING 5.5" ASPHALT (I.P.T.R.) | 10 | 1.5" HOT MIX ASPHALT (HT 9.5 MM)(POLYMER MODIFIED) |
| 2 | EXISTING 8.0" CONCRETE PAVING (I.P.T.R.) | 11 | 1.5" HOT MIX ASPHALT (HT 12.5 MM)(POLYMER MODIFIED) |
| 3 | EXISTING 6.0" CONCRETE PAVING (I.P.T.R.) | 12 | 3" HOT MIX ASPHALT (HT 19 MM)(POLYMER MODIFIED) |
| 4 | EXISTING 4.5" ASPHALT (I.P.T.R.) | 13 | 3" HOT MIX ASPHALT (HT 19 MM)(POLYMER MODIFIED) |
| 5 | EXISTING 5.0" ASPHALT (I.P.T.R.) | 14 | 8" GRANULAR MATERIAL (CRUSHED STONE) (SIZE 610) |
| 6 | EXISTING GROUND | 15 | SPECIAL DESIGN SLOTTED CURB (LOCATION VARIES - SEE PLAN SHEETS) |
| 7 | EXISTING 6" & VAR. DEPTH MEDIAN ISLAND PAVEMENT (T.B.R.) | 16 | 12" WIDTH X 8" DEPTH COLD MILLING FOR SLOTTED CURB INSTALLATION |
| 8 | EXISTING INTEGRAL CURB (T.B.R.) | | |
| 9 | EXISTING PAVEMENT (UNKNOWN DEPTH) (I.P.T.R.) | | |

TYPICAL SECTION US HWY 49 (STA. 210+00 TO STA. 215+66)			
ENGINEER: THE WALKER ASSOCIATES, PLLC			WORKING NUMBER TS-6
FILENAME: 178-11 Typical Sections.dwg			SHEET NUMBER 3.5
DATE	CHECKED BY	DATE	

DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Typical Sections.dwg
TS7
Jul 09, 2020 - 10:06pm
COUNTY: FORREST
DESIGNED BY: DBG
DRAWN BY: JGK
CHECKED BY: DBG

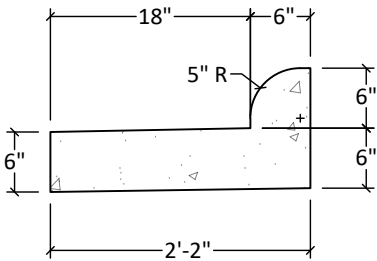
COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

TYPICAL SECTION
US HWY 49
(STA. 215+66 TO STA. 216+17)
(SHOWN AT STA. 216+15)



- NOTES:**
- LANE WIDTHS AND GRADES VARY DEPENDING ON STATIONING. WIDTHS AND GRADES SHOWN ARE APPROXIMATED AND MAY NOT EXACTLY MATCH FIELD CONDITIONS.
 - A PAY ITEM S-501-G IS ESTABLISHED FOR THE USE OF #4, 8" DOWELS ON 18" CENTERS FOR THE SPECIAL DESIGN SLOTTED CURB WHICH SHALL BE USED IN THE EVENT THAT CONCRETE IS FOUND AT A DEPTH OF LESS THAN THE 8" ASPHALT MILLING DEPTH.
 - NO SLOTTED CURB FROM STA. 216+17 TO STA. 216+59.
 - ALL CURB SHALL BE FORMED/SHAPED USING A CONCRETE MULE OR CURB MACHINE TO PROVIDE UNIFORM GEOMETRY AND FINISH.

- | | | | |
|----|--|----|---|
| 1 | EXISTING 5.5" ASPHALT (I.P.T.R.) | 11 | 1.5" HOT MIX ASPHALT (HT 9.5 MM)(POLYMER MODIFIED) |
| 2 | EXISTING 8.0" CONCRETE PAVING (I.P.T.R.) | 12 | 1.5" HOT MIX ASPHALT (HT 12.5 MM)(POLYMER MODIFIED) |
| 3 | EXISTING 6.0" CONCRETE PAVING (I.P.T.R.) | 13 | 1.5" HOT MIX ASPHALT (HT 9.5 MM)(POLYMER MODIFIED)(TRENCH WIDENING) |
| 4 | EXISTING 4.5" ASPHALT (I.P.T.R.) | 14 | 4.5" HOT MIX ASPHALT (HT 19 MM)(POLYMER MODIFIED)(TRENCH WIDENING) |
| 5 | EXISTING 5.0" ASPHALT (I.P.T.R.) | 15 | 3" HOT MIX ASPHALT (HT 19 MM)(POLYMER MODIFIED) |
| 6 | EXISTING GROUND | 16 | 3" HOT MIX ASPHALT (HT 19 MM)(POLYMER MODIFIED) |
| 7 | EXISTING 6" & VAR. DEPTH MEDIAN ISLAND PAVEMENT (I.P.T.R.) | 17 | 3" HOT MIX ASPHALT (HT 19 MM)(POLYMER MODIFIED) |
| 8 | EXISTING CURB (T.B.R.) | 18 | 8" GRANULAR MATERIAL (CRUSHED STONE) (SIZE 610) |
| 9 | EXISTING PAVEMENT (UNKNOWN DEPTH) (I.P.T.R.) | 19 | SPECIAL DESIGN SLOTTED CURB (LOCATION VARIES - SEE PLAN SHEETS) |
| 10 | EXISTING PAVEMENT (UNKNOWN DEPTH) (T.B.R.) | 20 | 12" WIDTH X 8" DEPTH COLD MILLING FOR SLOTTED CURB INSTALLATION |
| | | 21 | TYPE 3B (MODIFIED) CURB AND GUTTER |
| | | 22 | BORROW EXCAVATION (FME) (CONTRACTOR FURNISHED) (CLASS 9-8) (EXCEPT AT CONC. SIDEWALK) |
| | | 23 | 4" TOPSOIL |
| | | 24 | SOLID SOD |



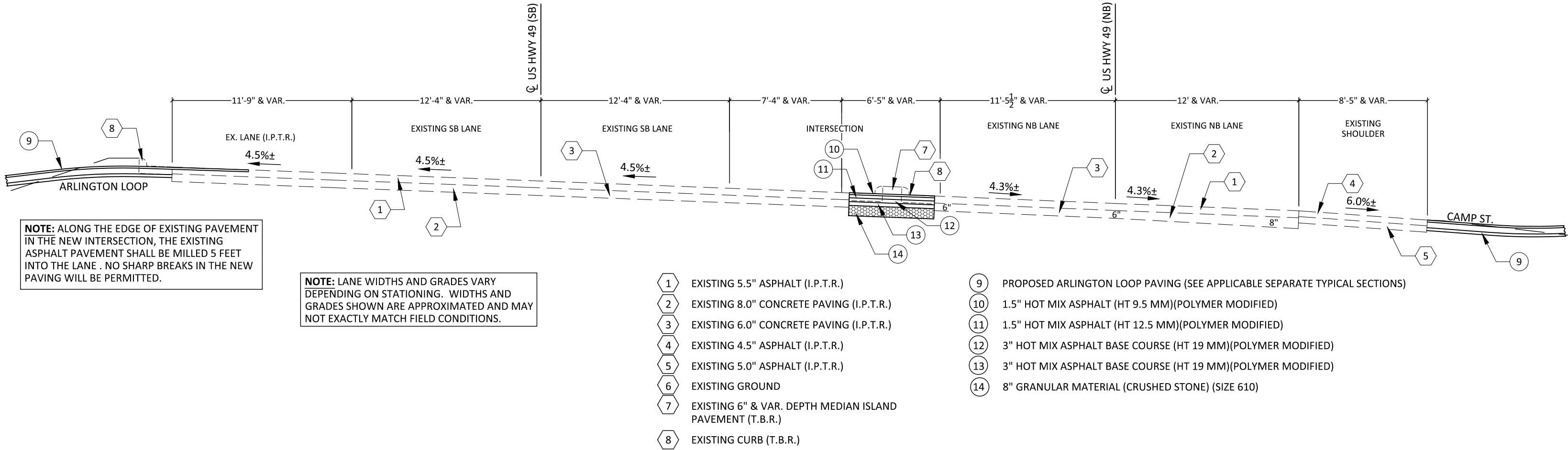
DETAIL OF TYPE 3B MODIFIED
MEDIAN CURB AND GUTTER
SCALE: NTS

TYPICAL SECTION US HWY 49 (STA. 215+66 TO STA. 216+17)			
ENGINEER: THE WALKER ASSOCIATES, PLLC			WORKING NUMBER TS-7
FILENAME: 178-11 Typical Sections.dwg			SHEET NUMBER 3.6
DATE	CHECKED BY	DATE	

DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Typical Sections.dwg
TSS
Jul 09, 2020 - 10:06pm
COUNTY: FORREST
DESIGNED BY: DBG
DRAWN BY: JGK
CHECKED BY: DBG

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

TYPICAL SECTION
US HWY 49
(STA. 216+17 TO STA. 217+13)
(SHOWN AT STA. 217+00)

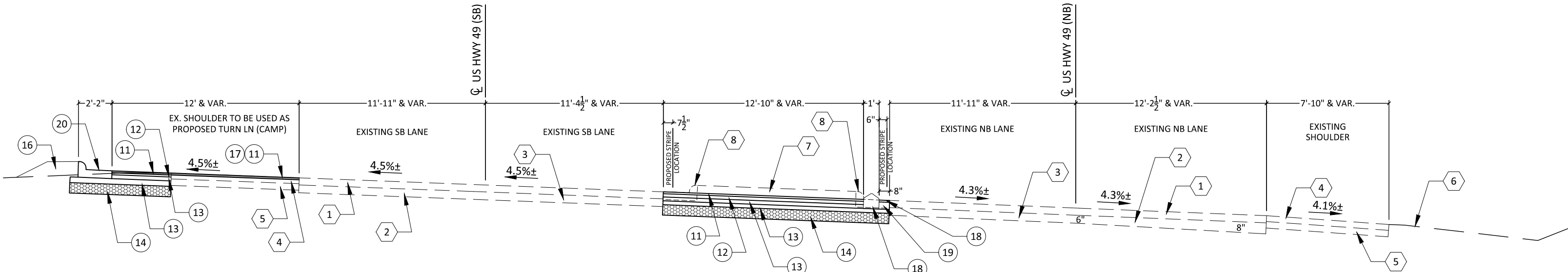


TYPICAL SECTION US HWY 49 (STA. 216+17 TO STA. 217+13)			
ENGINEER: THE WALKER ASSOCIATES, PLLC			WORKING NUMBER TS-8
FILENAME: 178-11 Typical Sections.dwg			SHEET NUMBER 3.7
DATE	CHECKED BY	DATE	

DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Typical Sections.dwg
TS9
Jul 09, 2020 - 10:06pm
COUNTY: FORREST
DESIGNED BY: DBG
DRAWN BY: JGK
CHECKED BY: DBG

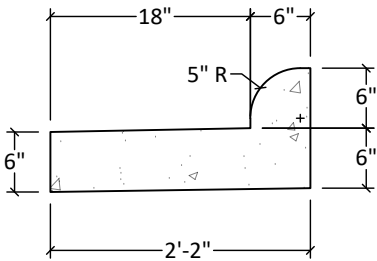
COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

TYPICAL SECTION
US HWY 49
(STA. 217+13 TO STA. 222+06)
(SHOWN AT STA. 218+50)



- NOTES:**
- LANE WIDTHS AND GRADES VARY DEPENDING ON STATIONING. WIDTHS AND GRADES SHOWN ARE APPROXIMATED AND MAY NOT EXACTLY MATCH FIELD CONDITIONS.
 - ALL CURB SHALL BE FORMED/SHAPED USING A CONCRETE MULE OR CURB MACHINE TO PROVIDE UNIFORM GEOMETRY AND FINISH.

- | | | | |
|---|--|----|---|
| 1 | EXISTING 5.5" ASPHALT (I.P.T.R.) | 11 | 1.5" HOT MIX ASPHALT (HT 9.5 MM)(POLYMER MODIFIED) |
| 2 | EXISTING 8.0" CONCRETE PAVING (I.P.T.R.) | 12 | 1.5" HOT MIX ASPHALT (HT 12.5 MM)(POLYMER MODIFIED) |
| 3 | EXISTING 6.0" CONCRETE PAVING (I.P.T.R.) | 13 | 3" HOT MIX ASPHALT (HT 19 MM)(POLYMER MODIFIED) |
| 4 | EXISTING 4.5" ASPHALT (I.P.T.R.) | 14 | 8" GRANULAR MATERIAL (CRUSHED STONE) (SIZE 610) |
| 5 | EXISTING 5.0" ASPHALT (I.P.T.R.) | 15 | SPECIAL DESIGN SLOTTED CURB (LOCATION VARIES - SEE PLAN SHEETS) |
| 6 | EXISTING GROUND | 16 | UNCLASSIFIED EXCAVATION |
| 7 | EXISTING 6" & VAR. DEPTH MEDIAN ISLAND PAVEMENT (T.B.R.) | 17 | COLD MILLING REQUIRED (ENTIRE WIDTH OF SHOULDER) (1.5" DEPTH) |
| 8 | EXISTING CURB (T.B.R.) | 18 | 1.5" HOT MIX ASPHALT (HT 9.5 MM)(TRENCH WIDENING) |
| | | 19 | 4.5" HOT MIX ASPHALT (HT 19 MM) (TRENCH WIDENING) |
| | | 20 | TYPE 3B (MODIFIED) CURB AND GUTTER |



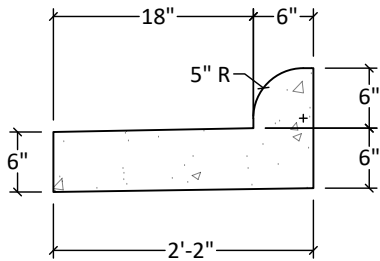
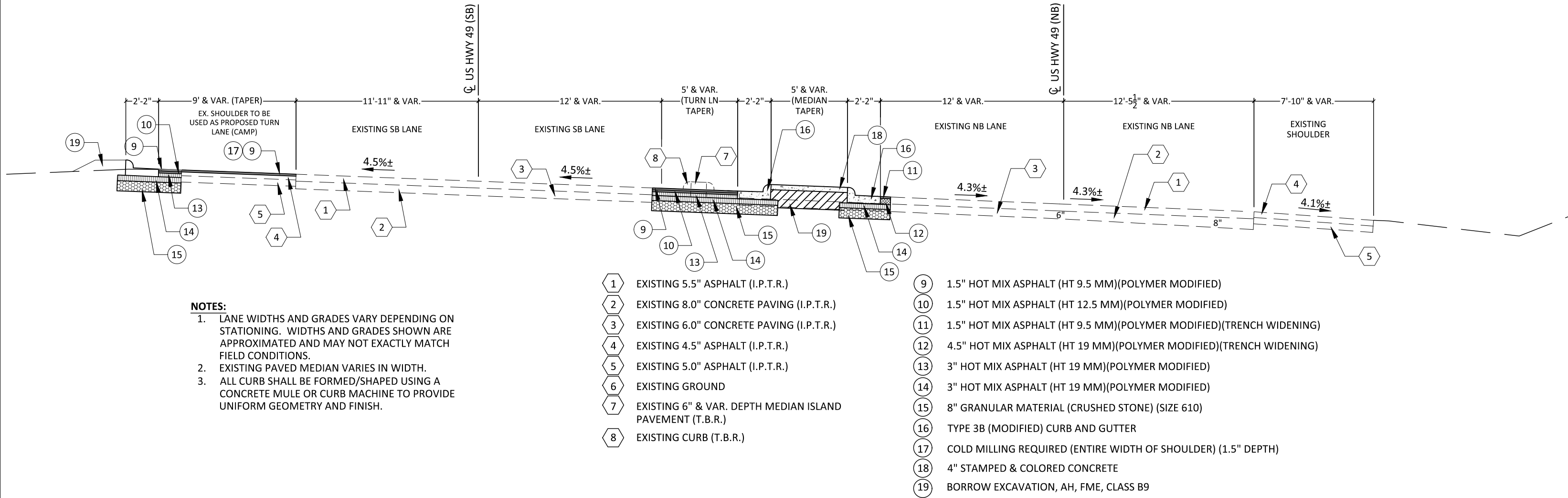
DETAIL OF TYPE 3B MODIFIED
MEDIAN CURB AND GUTTER
SCALE: NTS

TYPICAL SECTION US HWY 49 (STA. 217+13 TO STA. 222+06)			
ENGINEER: THE WALKER ASSOCIATES, PLLC			WORKING NUMBER TS-9
FILENAME: 178-11 Typical Sections.dwg			SHEET NUMBER 3.8
DATE	CHECKED BY	DATE	

DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Typical Sections.dwg
TS10
Jul 09, 2020 - 10:06pm
COUNTY: FORREST
DESIGNED BY: DBG
DRAWN BY: JGK
CHECKED BY: DBG

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

TYPICAL SECTION
US HWY 49
(STA. 222+06 TO STA. 223+08)
(SHOWN AT STA. 222+40)



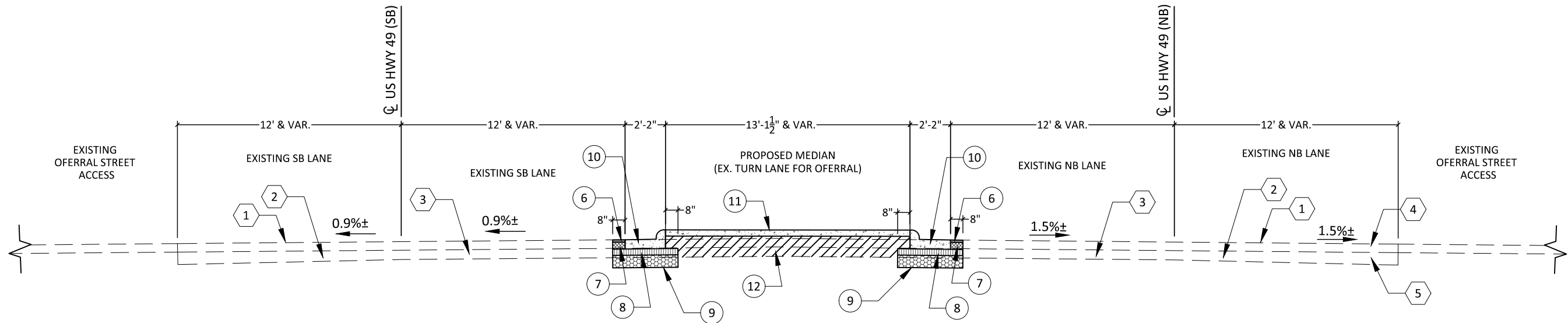
DETAIL OF TYPE 3B MODIFIED
MEDIAN CURB AND GUTTER
SCALE: NTS

TYPICAL SECTION US HWY 49 (STA. 222+06 TO STA. 223+08)				ENGINEER: THE WALKER ASSOCIATES, PLLC		WORKING NUMBER TS-10
DATE				FILENAME: 178-11 Typical Sections.dwg		SHEET NUMBER 3.9
BY				CHECKED BY: DBG		DATE: Jul 09, 2020
REVISION						

DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Typical Sections.dwg
TS11
Jul 09, 2020 - 10:06pm
COUNTY: FORREST
DESIGNED BY: DBG
DRAWN BY: JGK
CHECKED BY: DBG

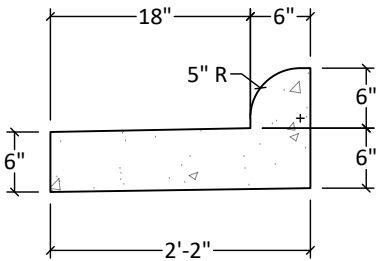
COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

TYPICAL SECTION
US HWY 49
(STA. 223+08 TO END OF PROJECT)
(SHOWN AT 223+50)



- NOTES:
- LANE WIDTHS AND GRADES VARY DEPENDING ON STATIONING. WIDTHS AND GRADES SHOWN ARE APPROXIMATED AND MAY NOT EXACTLY MATCH FIELD CONDITIONS.
 - ALL CURB SHALL BE FORMED/SHAPED USING A CONCRETE MULE OR CURB MACHINE TO PROVIDE UNIFORM GEOMETRY AND FINISH.

- | | | | |
|---|--|----|---|
| 1 | EXISTING 5.5" ASPHALT (I.P.T.R.) | 6 | 1.5" HOT MIX ASPHALT (HT 9.5 MM)(POLYMER MODIFIED)(TRENCH WIDENING) |
| 2 | EXISTING 8.0" CONCRETE PAVING (I.P.T.R.) | 7 | 4.5" HOT MIX ASPHALT (HT 19 MM)(POLYMER MODIFIED)(TRENCH WIDENING) |
| 3 | EXISTING 6.0" CONCRETE PAVING (I.P.T.R.) | 8 | 3" HOT MIX ASPHALT (HT 19 MM)(POLYMER MODIFIED) |
| 4 | EXISTING 4.5" ASPHALT (I.P.T.R.) | 9 | 8" GRANULAR MATERIAL (CRUSHED STONE) (SIZE 610) |
| 5 | EXISTING 5.0" ASPHALT (I.P.T.R.) | 10 | TYPE 3B (MODIFIED) CURB & GUTTER |
| | | 11 | 4" STAMPED & COLORED CONCRETE |
| | | 12 | BORROW EXCAVATION, AH, FME, CLASS B9 |

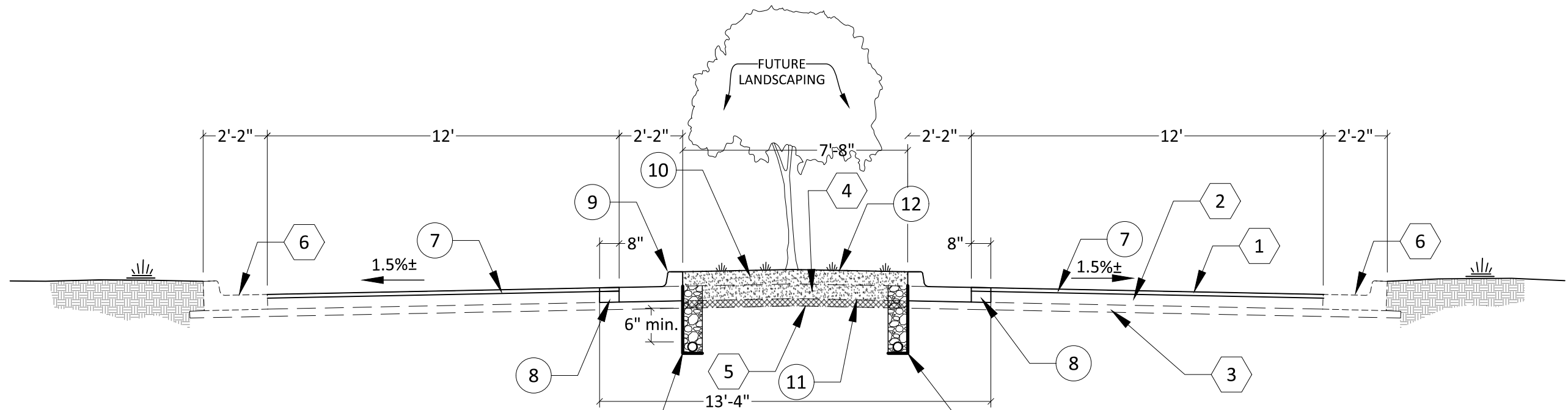


DETAIL OF TYPE 3B MODIFIED
MEDIAN CURB AND GUTTER
SCALE: NTS

TYPICAL SECTION US HWY 49 (STA. 223+08 TO END OF PROJECT)			
ENGINEER: THE WALKER ASSOCIATES, PLLC			
WORKING NUMBER TS-11			
SHEET NUMBER 3.10			
FILENAME: 178-11 Typical Sections.dwg			
CHECKED BY: DBG DATE: Jul 09, 2020			
DATE	REVISION	BY	

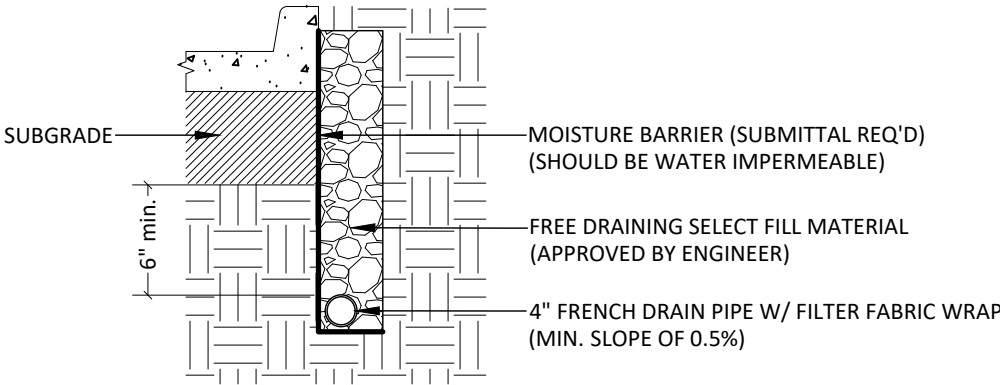
COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

TYPICAL SECTION
MAMIE STREET
(FORREST GENERAL HOSPITAL MAIN ENTRANCE)

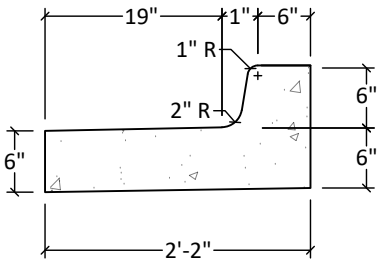


NOTES:
1. ALL CURB SHALL BE FORMED/SHAPED USING A CONCRETE MULE OR CURB MACHINE TO PROVIDE UNIFORM GEOMETRY AND FINISH.

- | | | | |
|---|--|----|---|
| 1 | 1 1/2" ASPHALT MILLING REQ'D | 7 | 1.5" HOT MIX ASPHALT OVERLAY (HT 9.5 MM) |
| 2 | EXISTING 4 1/2" ASPHALT (I.P.T.R.) | 8 | 4.5" HOT MIX ASPHALT (HT 19 MM) (TRENCH REPAIR) |
| 3 | EXISTING 3" ASPHALT BASE COURSE (I.P.T.R.) | 9 | TYPE 1 MODIFIED CURB AND GUTTER |
| 4 | EXISTING 6" ASPHALT (T.B.R.) | 10 | 4" TOP SOIL |
| 5 | EXISTING ASPHALT BASE COURSE (T.B.R.) | 11 | BORROW EXCAVATION, AH, FME, CLASS B9 |
| 6 | EXISTING TYPE 1 CURB AND GUTTER (I.P.T.R.) | 12 | SOLID SOD |
| | | 13 | FRENCH DRAIN |



TYPICAL FRENCH DRAIN DETAIL
SCALE: NTS



DETAIL OF TYPE 1 MODIFIED CURB AND GUTTER
SCALE: NTS

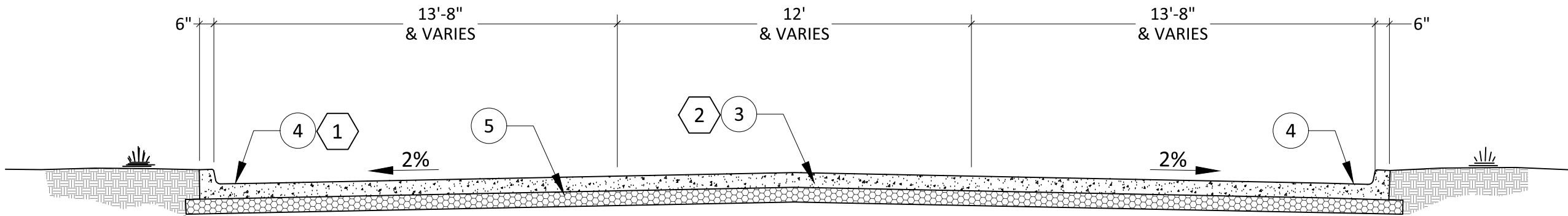
TYPICAL SECTION MAMIE STREET (FORREST GENERAL HOSPITAL MAIN ENTRANCE)			
ENGINEER: THE WALKER ASSOCIATES, PLLC			
WORKING NUMBER TS-12			
SHEET NUMBER 3.11			
DATE	FILENAME: 178-11 Typical Sections.dwg	CHECKED BY: DBG	DATE: Jul 09, 2020
REVISION	BY		

DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Typical Sections.dwg
TS12
Jul 09, 2020 - 10:06pm
COUNTY: FORREST
DESIGNED BY: DBG
DRAWN BY: JGK
CHECKED BY: DBG

DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Typical Sections.dwg
TS13
Jul 09, 2020 - 10:07pm
COUNTY: FORREST
DESIGNED BY: DBG
DRAWN BY: JGK
CHECKED BY: DBG

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

TYPICAL SECTION
MAMIE STREET
(FORREST GENERAL HOSPITAL MAIN ENTRANCE)
(TAPER TO EXISTING DRIVE)



- 1

EXISTING CURB & GUTTER (T.B.R.)
- 2

EXISTING ASPHALT UNKNOWN DEPTH (T.B.R.)
- 3

5" - CONCRETE PAVING (3,500 P.S.I. @ 28 DAYS W/ 6X6 W2.9/W.9)
- 4

INTEGRAL CURB (TYPE 1)
- 5

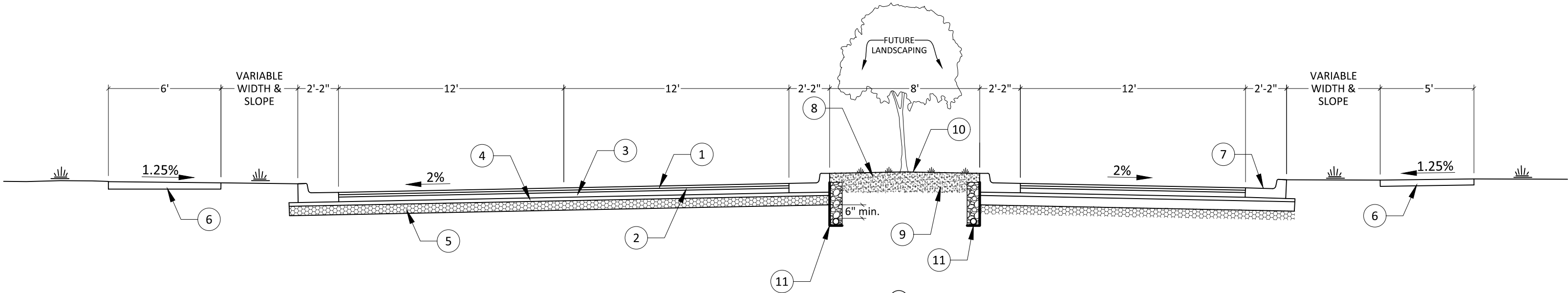
6" GRANULAR MATERIAL (CRUSHED STONE) (SIZE 610)

			BY	TYPICAL SECTION MAMIE STREET (FORREST GENERAL HOSPITAL MAIN ENTRANCE) (TAPER TO EXISTING DRIVE) ENGINEER: THE WALKER ASSOCIATES, PLLC		WORKING NUMBER TS-13
			REVISION			SHEET NUMBER 3.12
			DATE			
FILENAME: 178-11 Typical Sections.dwg				CHECKED BY <u>DBG</u> DATE <u>Jul 09, 2020</u>		

DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Typical Sections.dwg
TS14
Jul 09, 2020 - 10:07pm
COUNTY: FORREST
DESIGNED BY: DBG
DRAWN BY: JGK
CHECKED BY: DBG

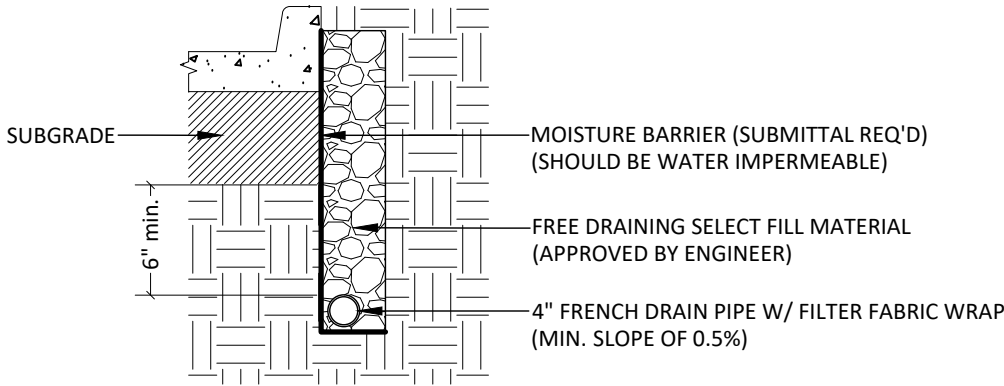
COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

TYPICAL SECTION
MAMIE STREET
(EMERGENCY ROOM ENTRANCE)
(STA. 10+40 TO STA. 12+21)

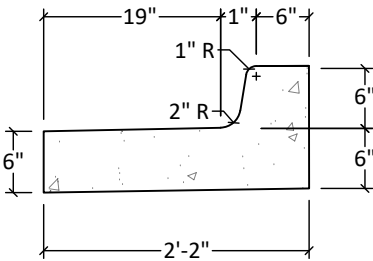


- 1 1.5" HOT MIX ASPHALT (HT 9.5 MM)
- 2 1.5" HOT MIX ASPHALT (HT 12.5 MM)
- 3 3.0" HOT MIX ASPHALT (HT 19 MM)
- 4 2.25" HOT MIX ASPHALT (ST 19 MM)
- 5 6" GRANULAR MATERIAL (CRUSHED STONE) (SIZE 610)
- 6 4" CONCRETE (3,000 P.S.I.) PAVING REQ'D (SIDEWALK)
- 7 TYPE 1 MODIFIED CURB & GUTTER
- 8 4" TOP SOIL
- 9 BORROW EXCAVATION, AH, FME, CLASS B9
- 10 SOLID SOD
- 11 FRENCH DRAIN

NOTES:
1. ALL CURB SHALL BE FORMED/SHAPED USING A CONCRETE MULE OR CURB MACHINE TO PROVIDE UNIFORM GEOMETRY AND FINISH.



TYPICAL FRENCH DRAIN DETAIL
SCALE: NTS



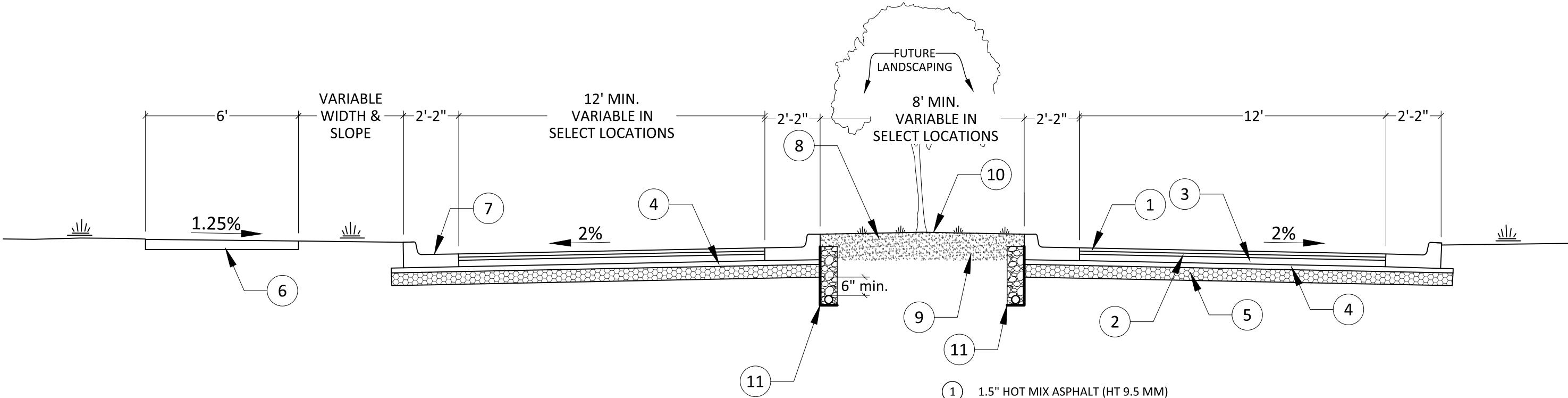
DETAIL OF TYPE 1 MODIFIED CURB AND GUTTER
SCALE: NTS

				TYPICAL SECTION MAMIE STREET (EMERGENCY ROOM ENTRANCE) (STA. 10+40 TO STA. 12+21)	
				ENGINEER: THE WALKER ASSOCIATES, PLLC	WORKING NUMBER TS-14
				FILENAME: 178-11 Typical Sections.dwg	SHEET NUMBER 3.13
				CHECKED BY DBG DATE Jul 09, 2020	

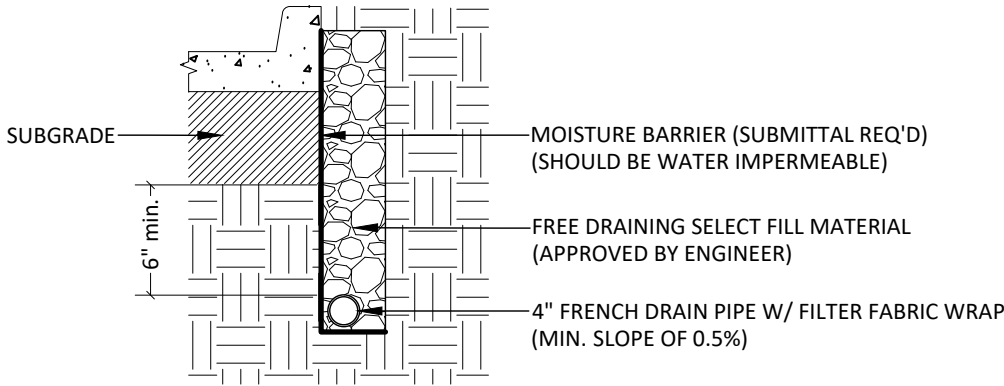
DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Typical Sections.dwg
TS15
Jul 09, 2020 - 10:07pm
COUNTY: FORREST
DESIGNED BY: DBG
DRAWN BY: JGK
CHECKED BY: DBG

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

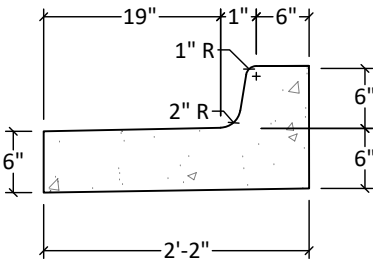
TYPICAL SECTION
MAMIE STREET
(EMERGENCY ROOM ENTRANCE)
(STA. 13+00 TO STA. 14+91)



NOTES:
1. ALL CURB SHALL BE FORMED/SHAPED USING A CONCRETE MULE OR CURB MACHINE TO PROVIDE UNIFORM GEOMETRY AND FINISH.



TYPICAL FRENCH DRAIN DETAIL
SCALE: NTS



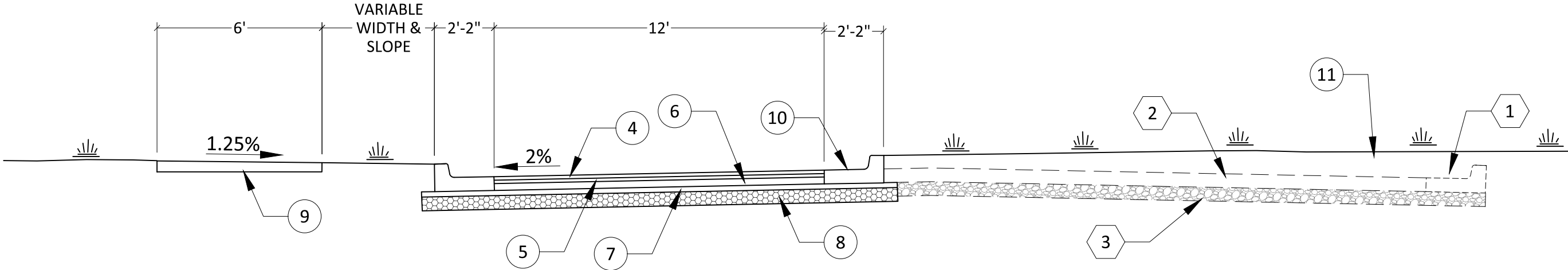
DETAIL OF TYPE 1 MODIFIED CURB AND GUTTER
SCALE: NTS

				TYPICAL SECTION MAMIE STREET (EMERGENCY ROOM ENTRANCE) (STA. 13+00 TO STA. 14+91)	
				ENGINEER: THE WALKER ASSOCIATES, PLLC	WORKING NUMBER TS-15
				FILENAME: 178-11 Typical Sections.dwg	SHEET NUMBER 3.14
DATE	CHECKED BY	DATE	BY		
	DBG	Jul 09, 2020			

DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Typical Sections.dwg
TS16
Jul 09, 2020 - 10:07pm
COUNTY: FORREST
DESIGNED BY: DBG
DRAWN BY: JGK
CHECKED BY: DBG

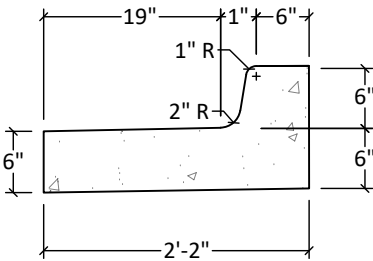
COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

TYPICAL SECTION
MAMIE STREET
(EMERGENCY ROOM ENTRANCE)
(STA. 15+30 TO STA. 16+53)



NOTES:
1. ALL CURB SHALL BE FORMED/SHAPED USING A CONCRETE MULE OR CURB MACHINE TO PROVIDE UNIFORM GEOMETRY AND FINISH.

- | | | | |
|---|---------------------------------|----|--|
| 1 | EXISTING CURB & GUTTER (T.B.R.) | 4 | 1.5" HOT MIX ASPHALT (HT 9.5 MM) |
| 2 | EXISTING ASPHALT (T.B.R.) | 5 | 1.5" HOT MIX ASPHALT (HT 12.5 MM) |
| 3 | EXISTING STONE (T.B.R.) | 6 | 3.0" HOT MIX ASPHALT (HT 19 MM) |
| | | 7 | 2.25" HOT MIX ASPHALT (ST 19 MM) |
| | | 8 | 6" GRANULAR MATERIAL (CRUSHED STONE) (SIZE 610) |
| | | 9 | 4" CONCRETE (3,000 P.S.I.) PAVING REQ'D (SIDEWALK) |
| | | 10 | TYPE 1 MODIFIED CURB & GUTTER |
| | | 11 | BORROW EXCAVATION, AH, FME, CLASS B9 |

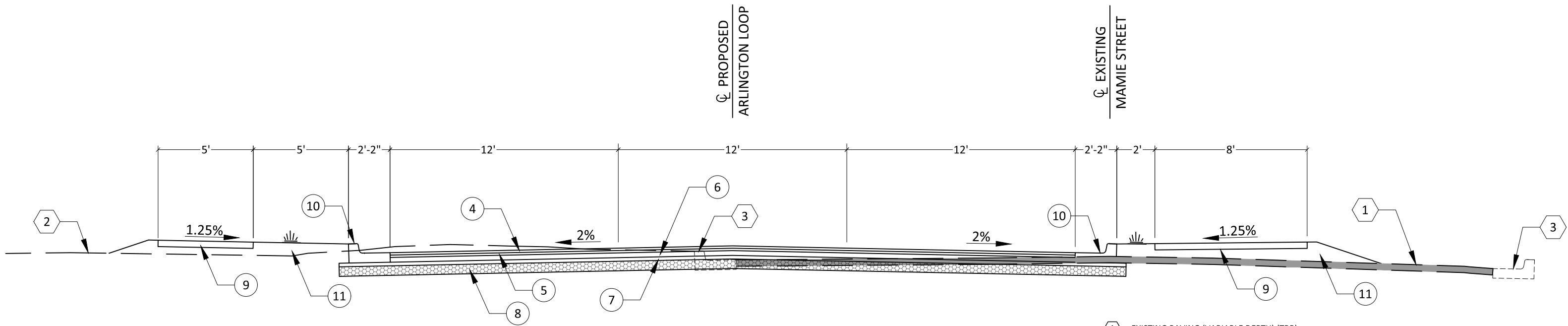


DETAIL OF TYPE 1 MODIFIED CURB AND GUTTER
SCALE: NTS

TYPICAL SECTION MAMIE STREET (EMERGENCY ROOM ENTRANCE) (STA. 15+30 TO STA. 16+53)				WORKING NUMBER TS-16
ENGINEER: THE WALKER ASSOCIATES, PLLC				SHEET NUMBER 3.15
DATE	FILENAME: 178-11 Typical Sections.dwg			
CHECKED BY	DBG	DATE	Jul 09, 2020	
REVISION	BY			

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

TYPICAL SECTION
ARLINGTON LOOP
(STA. 11+08-C TO STA. 13+39-C)
(SHOWN AT STA. 12+00-C)



NOTES:
1. ALL CURB SHALL BE FORMED/SHAPED USING A CONCRETE MULE OR CURB MACHINE TO PROVIDE UNIFORM GEOMETRY AND FINISH.

- 1 EXISTING PAVING (VARIABLE DEPTH) (TBR)
- 2 EXISTING GROUND (VARIABLE MATERIAL TYPE)
- 3 EXISTING CURB (T.B.R.)
- 4 1.5" HOT MIX ASPHALT (HT 9.5 MM)
- 5 1.5" HOT MIX ASPHALT (HT 12.5 MM)
- 6 3" HOT MIX ASPHALT (HT 19 MM)
- 7 2.25" HOT MIX ASPHALT (ST 19 MM)
- 8 6" GRANULAR MATERIAL (CRUSHED STONE) (SIZE 610)
- 9 4" CONCRETE (3,000 P.S.I.) PAVING REQ'D (SIDEWALK)
- 10 TYPE 1 CURB & GUTTER
- 11 BORROW EXCAVATION (FME) (CONTRACTOR FURNISHED) (CLASS 9-8)

				BY	TYPICAL SECTION ARLINGTON LOOP (STA. 11+08-C TO STA. 13+39-C)	
				REVISION		
				DATE		
					ENGINEER: THE WALKER ASSOCIATES, PLLC	WORKING NUMBER TS-17
					FILENAME: 178-11 Typical Sections.dwg	SHEET NUMBER 3.16
					CHECKED BY: DBG	DATE: Jul 09, 2020

DESIGN TEAM: THE WALKER ASSOCIATES, PLLC

FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Typical Sections.dwg

TS17

Jul 09, 2020 - 10:07pm

COUNTY: FORREST

DESIGNED BY: DBG

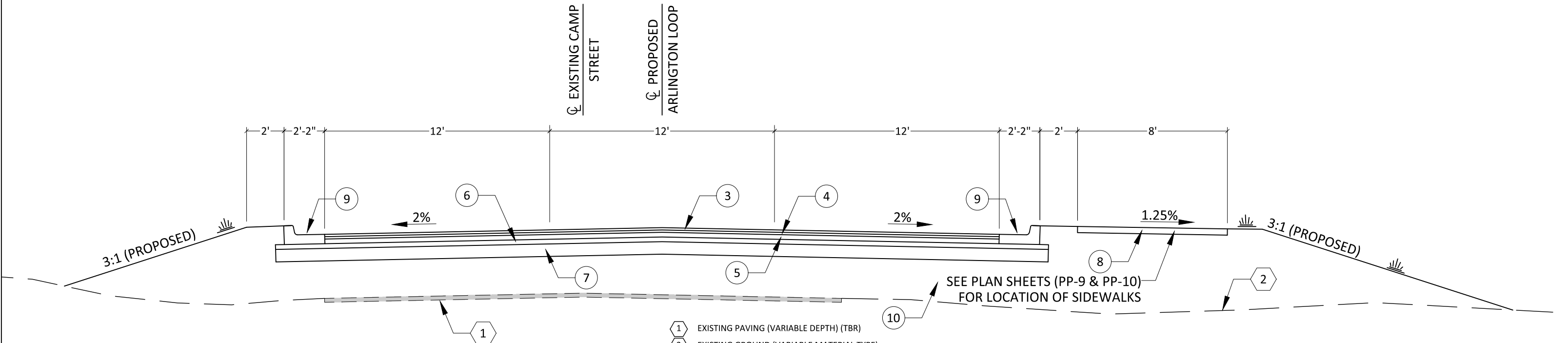
DRAWN BY: JGK

CHECKED BY: DBG

FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Typical Sections.dwg
DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
TS18
Jul 09, 2020 - 10:07pm
COUNTY: FORREST
DESIGNED BY: DBG
DRAWN BY: JGK
CHECKED BY: DBG

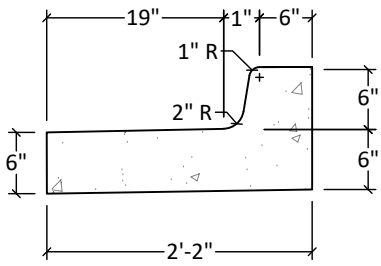
COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

TYPICAL SECTION
ARLINGTON LOOP
(STA 13+39-C TO US HWY 49)
(SHOWN AT STA. 15+50-C)



NOTES:
1. ALL CURB SHALL BE FORMED/SHAPED USING A CONCRETE MULE OR CURB MACHINE TO PROVIDE UNIFORM GEOMETRY AND FINISH.

- 1 EXISTING PAVING (VARIABLE DEPTH) (TBR)
- 2 EXISTING GROUND (VARIABLE MATERIAL TYPE)
- 3 1.5" HOT MIX ASPHALT (HT 9.5 MM)
- 4 1.5" HOT MIX ASPHALT (HT 12.5 MM)
- 5 3" HOT MIX ASPHALT (HT 19 MM)
- 6 2.25" HOT MIX ASPHALT (ST 19 MM)
- 7 6" GRANULAR MATERIAL (CRUSHED STONE) (SIZE 610)
- 8 4" CONCRETE (3,000 P.S.I.) PAVING REQ'D (MULTI-USE SIDEWALK)
- 9 TYPE 1 MODIFIED CURB & GUTTER
- 10 BORROW EXCAVATION (FME) (CONTRACTOR FURNISHED) (CLASS 9-8)



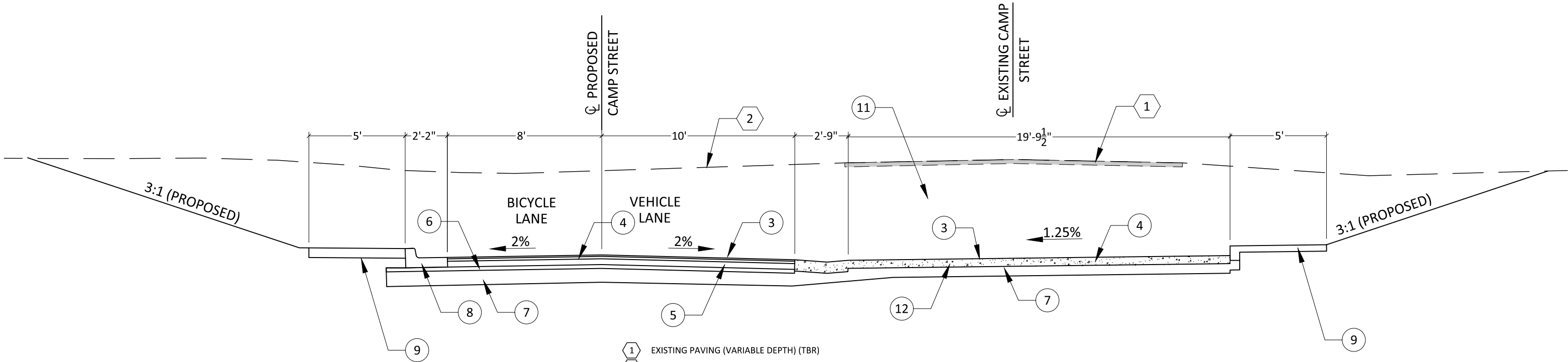
DETAIL OF TYPE 1 MODIFIED CURB AND GUTTER
SCALE: NTS

					BY	TYPICAL SECTION ARLINGTON LOOP (STA. 13+39-C TO US HWY 49)
					REVISION	
					DATE	ENGINEER: THE WALKER ASSOCIATES, PLLC
						WORKING NUMBER TS-18
						SHEET NUMBER 3.17
						FILENAME: 178-11 Typical Sections.dwg
						CHECKED BY DBG DATE Jul 09, 2020

DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Typical Sections.dwg
TS19
Jul 09, 2020 - 10:07pm
COUNTY: FORREST
DESIGNED BY: DBG
DRAWN BY: JGK
CHECKED BY: DBG

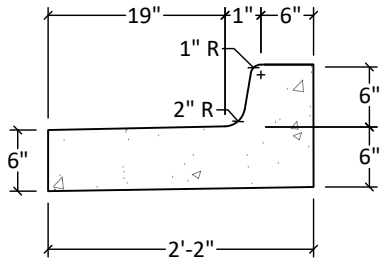
COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

TYPICAL SECTION
CAMP STREET
(EAST FRONTAGE TO STA. 19+46-C)
(SHOWN AT STA. 19+00-C)



- 1 EXISTING PAVING (VARIABLE DEPTH) (TBR)
- 2 EXISTING GROUND (VARIABLE MATERIAL TYPE)
- 3 1.5" HOT MIX ASPHALT (HT 9.5 MM)
- 4 1.5" HOT MIX ASPHALT (HT 12.5 MM)
- 5 3.0" HOT MIX ASPHALT (HT 19 MM)
- 6 2.25" HOT MIX ASPHALT (ST 19 MM)
- 7 6" GRANULAR MATERIAL (CRUSHED STONE) (SIZE 610)
- 8 TYPE 1 MODIFIED CURB & GUTTER
- 9 4" CONCRETE (3,000 P.S.I.) PAVING REQ'D (SIDEWALK)
- 10 6" CONCRETE (3,000 P.S.I.) PAVING REQ'D (PARKING)
- 11 EXCESS EXCAVATION (FME)
- 12 5" CONC. DRIVE PAVING (REINFORCED)

NOTES:
1. ALL CURB SHALL BE FORMED/SHAPED USING A CONCRETE MULE OR CURB MACHINE TO PROVIDE UNIFORM GEOMETRY AND FINISH.



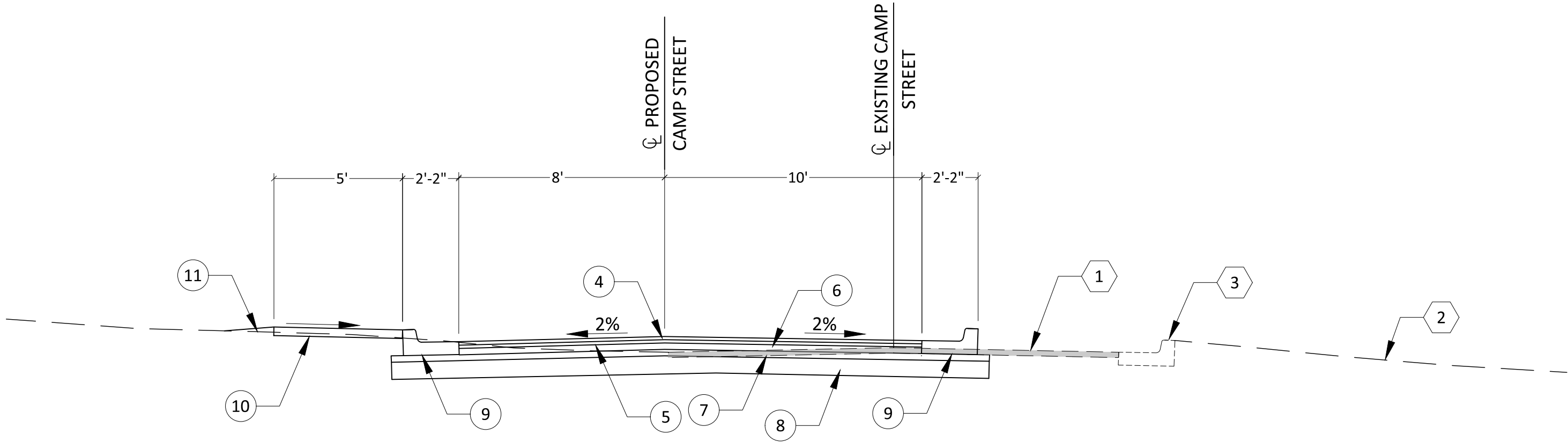
DETAIL OF TYPE 1 MODIFIED CURB AND GUTTER
SCALE: NTS

TYPICAL SECTION CAMP STREET (EAST FRONTAGE TO STA. 19+46-C)			
ENGINEER: THE WALKER ASSOCIATES, PLLC			WORKING NUMBER TS-19
FILENAME: 178-11 Typical Sections.dwg			SHEET NUMBER 3.18
DATE	CHECKED BY: DBG	DATE: Jul 09, 2020	

DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Typical Sections.dwg
TS20
Jul 09, 2020 - 10:07pm
COUNTY: FORREST
DESIGNED BY: DBG
DRAWN BY: JGK
CHECKED BY: DBG

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

TYPICAL SECTION
CAMP STREET
(STA. 19+46-C TO 25TH AVE.)
(SHOWN AT STA. 20+30-C)



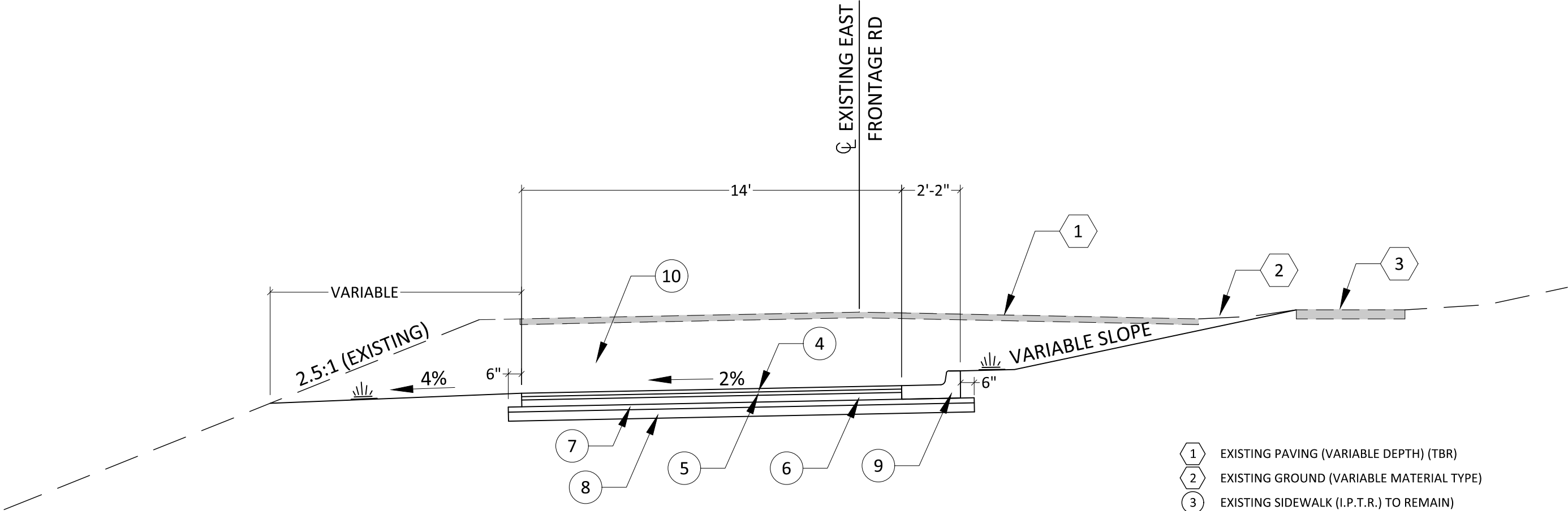
NOTES:
1. ALL CURB SHALL BE FORMED/SHAPED USING A CONCRETE MULE OR CURB MACHINE TO PROVIDE UNIFORM GEOMETRY AND FINISH.

- 1 EXISTING PAVING (VARIABLE DEPTH) (TBR)
- 2 EXISTING GROUND (VARIABLE MATERIAL TYPE)
- 3 EXISTING CURB (T.B.R.)
- 4 1.5" HOT MIX ASPHALT (HT 9.5 MM)
- 5 1.5" HOT MIX ASPHALT (HT 12.5 MM)
- 6 3" HOT MIX ASPHALT (HT 19 MM)
- 7 2.25" HOT MIX ASPHALT (ST 19 MM)
- 8 6" GRANULAR MATERIAL (CRUSHED STONE) (SIZE 610)
- 9 TYPE 1 CURB & GUTTER
- 10 4" CONCRETE (3,000 P.S.I.) PAVING REQ'D (SIDEWALK)
- 11 BORROW EXCAVATION (FME) (CONTRACTOR FURNISHED) (CLASS 9-8)

TYPICAL SECTION CAMP STREET (STA. 19+46 TO 25TH AVE.)			
ENGINEER: THE WALKER ASSOCIATES, PLLC			WORKING NUMBER TS-20
FILENAME: 178-11 Typical Sections.dwg			SHEET NUMBER 3.19
DATE	CHECKED BY	DATE	

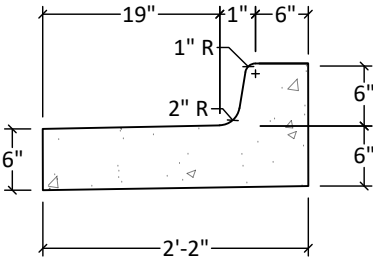
COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

TYPICAL SECTION
EAST FRONTAGE ROAD
(BETWEEN MAMIE ST & CAMP ST)
(SHOWN AT STA. 35+20-EF)



NOTES:
1. ALL CURB SHALL BE FORMED/SHAPED USING A CONCRETE MULE OR CURB MACHINE TO PROVIDE UNIFORM GEOMETRY AND FINISH.

- 1 EXISTING PAVING (VARIABLE DEPTH) (TBR)
- 2 EXISTING GROUND (VARIABLE MATERIAL TYPE)
- 3 EXISTING SIDEWALK (I.P.T.R.) TO REMAIN)
- 4 1.5" HOT MIX ASPHALT (HT 9.5 MM)
- 5 1.5" HOT MIX ASPHALT (HT 12.5 MM)
- 6 3.0" HOT MIX ASPHALT (HT 19 MM)
- 7 2.25" HOT MIX ASPHALT (ST 19 MM)
- 8 6" GRANULAR MATERIAL (CRUSHED STONE) (SIZE 610)
- 9 TYPE 1 MODIFIED CURB & GUTTER
- 10 EXCESS EXCAVATION (FM)



DETAIL OF TYPE 1 MODIFIED CURB AND GUTTER
SCALE: NTS

TYPICAL SECTION EAST FRONTAGE ROAD (BETWEEN MAMIE ST. & CAMP ST.) (STA. 35+20-EF)				ENGINEER: THE WALKER ASSOCIATES, PLLC		WORKING NUMBER TS-21
DATE				FILENAME: 178-11 Typical Sections.dwg		SHEET NUMBER 3.20
CHECKED BY: DBG				DATE: Jul 09, 2020		

DESIGN TEAM: THE WALKER ASSOCIATES, PLLC

FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Typical Sections.dwg

TS21

Jul 09, 2020 - 10:07pm

COUNTY: FORREST

DESIGNED BY: DBG

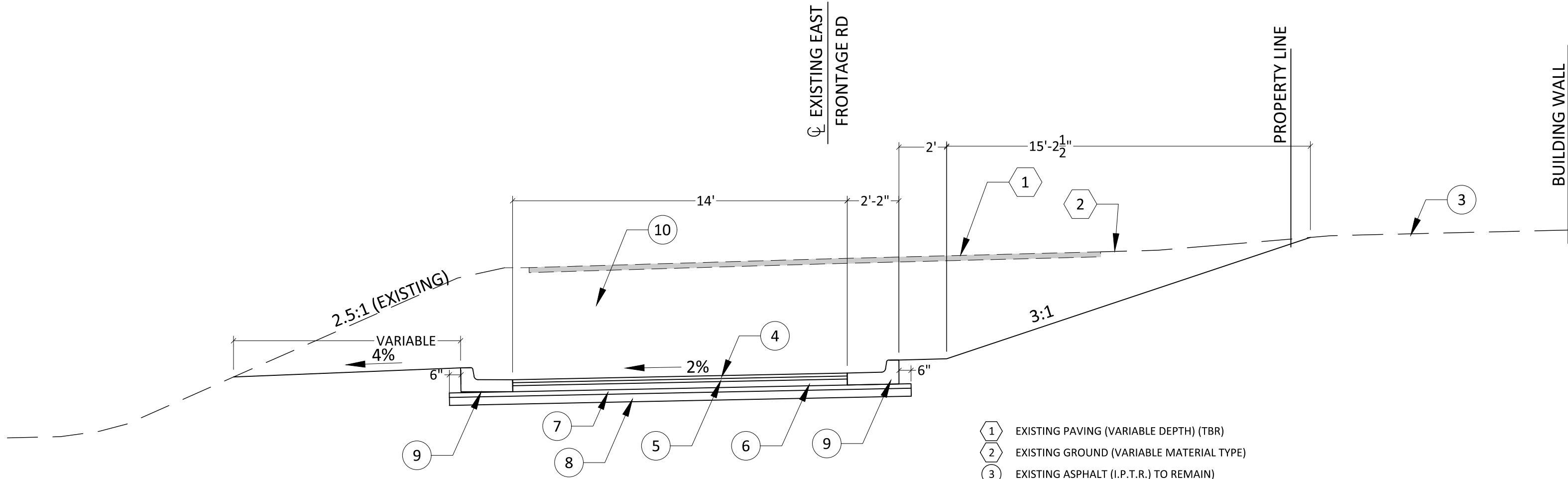
DRAWN BY: JGK

CHECKED BY: DBG

FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Typical Sections.dwg
TS22
Jul 09, 2020 - 10:07pm
COUNTY: FORREST
DESIGNED BY: DBG
DRAWN BY: JGK
CHECKED BY: DBG
DESIGN TEAM: THE WALKER ASSOCIATES, PLLC

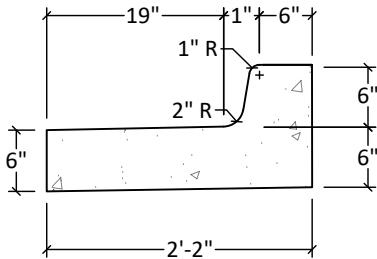
COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

TYPICAL SECTION
EAST FRONTAGE ROAD
(BETWEEN MAMIE ST. & CAMP ST.)
(SHOWN AT STA. 35+75-EF)



NOTES:
1. ALL CURB SHALL BE FORMED/SHAPED USING A CONCRETE MULE OR CURB MACHINE TO PROVIDE UNIFORM GEOMETRY AND FINISH.

- 1 EXISTING PAVING (VARIABLE DEPTH) (TBR)
- 2 EXISTING GROUND (VARIABLE MATERIAL TYPE)
- 3 EXISTING ASPHALT (I.P.T.R.) TO REMAIN
- 4 1.5" HOT MIX ASPHALT (HT 9.5 MM)
- 5 1.5" HOT MIX ASPHALT (HT 12.5 MM)
- 6 3.0" HOT MIX ASPHALT (HT 19 MM)
- 7 2.25" HOT MIX ASPHALT (ST 19 MM)
- 8 6" GRANULAR MATERIAL (CRUSHED STONE) (SIZE 610)
- 9 TYPE 1 MODIFIED CURB & GUTTER
- 10 EXCESS EXCAVATION (FM)



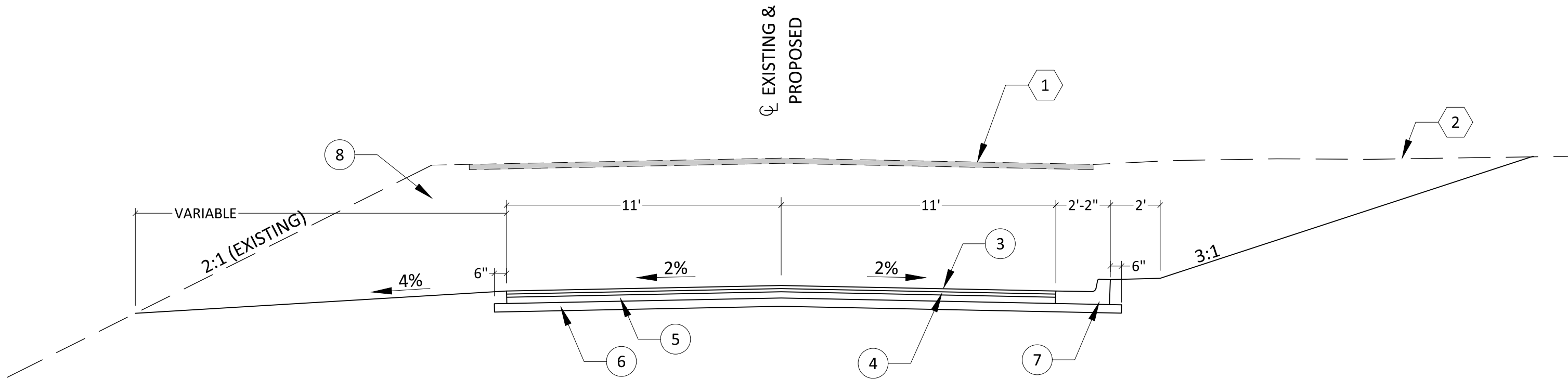
DETAIL OF TYPE 1 MODIFIED CURB AND GUTTER
SCALE: NTS

TYPICAL SECTION EAST FRONTAGE ROAD (BETWEEN MAMIE ST. & CAMP ST.) (STA. 35+75-EF)			
ENGINEER: THE WALKER ASSOCIATES, PLLC			
WORKING NUMBER TS-22			
SHEET NUMBER 3.21			
FILENAME: 178-11 Typical Sections.dwg			
CHECKED BY: DBG DATE: Jul 09, 2020			
DATE			
REVISION			
BY			

DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Typical Sections.dwg
TS23
Jul 09, 2020 - 10:07pm
COUNTY: FORREST
DESIGNED BY: DBG
DRAWN BY: JGK
CHECKED BY: DBG

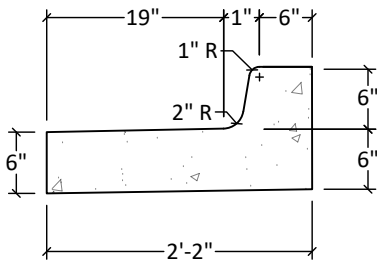
COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

TYPICAL SECTION
EAST FRONTAGE ROAD
(BETWEEN CAMP ST. & O'FERRAL ST.)
(SHOWN AT STA. 37+00-EF)



NOTES:
1. ALL CURB SHALL BE FORMED/SHAPED USING A CONCRETE MULE OR CURB MACHINE TO PROVIDE UNIFORM GEOMETRY AND FINISH.

- 1 EXISTING PAVING (VARIABLE DEPTH) (TBR)
- 2 EXISTING GROUND (VARIABLE MATERIAL TYPE)
- 3 1.5" HOT MIX ASPHALT (HT 9.5 MM)
- 4 1.5" HOT MIX ASPHALT (HT 12.5 MM)
- 5 3.0" HOT MIX ASPHALT (HT 19 MM)
- 6 6" GRANULAR MATERIAL (CRUSHED STONE) (SIZE 610)
- 7 TYPE 1 MODIFIED CURB & GUTTER
- 8 EXCESS EXCAVATION (FM)

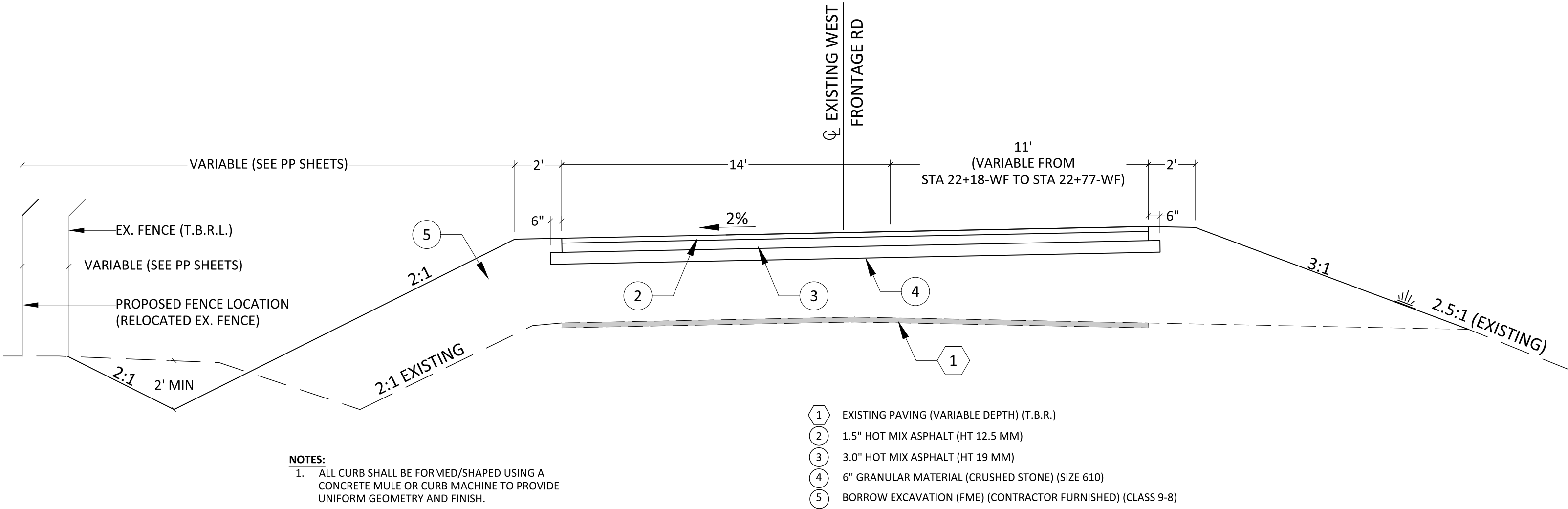


DETAIL OF TYPE 1 MODIFIED CURB AND GUTTER
SCALE: NTS

				BY	TYPICAL SECTION EAST FRONTAGE ROAD (BETWEEN CAMP ST. & O'FERRAL ST)
				REVISION	
					ENGINEER: THE WALKER ASSOCIATES, PLLC
					WORKING NUMBER TS-23
				DATE	FILENAME: 178-11 Typical Sections.dwg
					CHECKED BY DBG DATE Jul 09, 2020
					SHEET NUMBER 3.22

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

TYPICAL SECTION
WEST FRONTAGE ROAD
(BETWEEN ADELINE ST. & MAMIE ST.)
(STA. 21+23-WF TO STA. 22+77-WF)
(SHOWN AT STA. 21+50-WF)

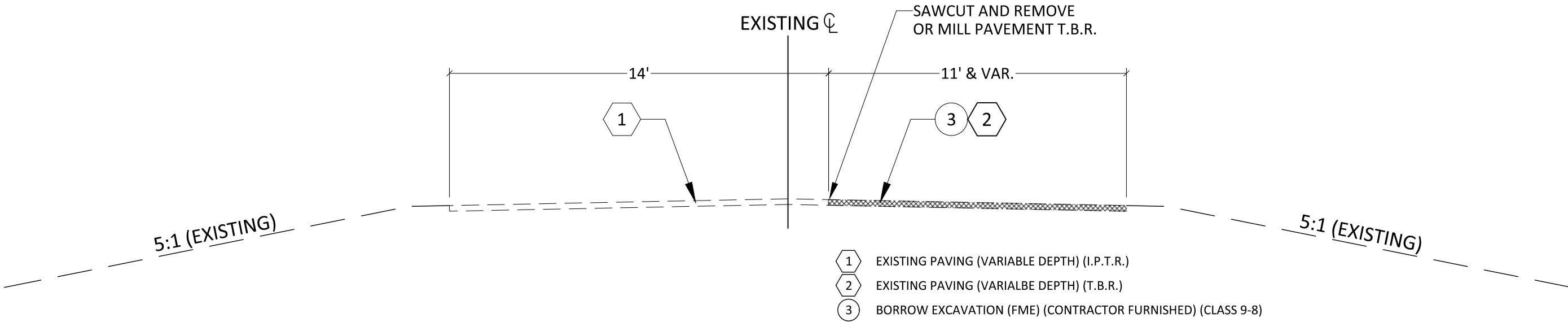


				BY		REVISION		DATE		TYPICAL SECTION WEST FRONTAGE ROAD (BETWEEN ADELINE ST. & MAMIE ST.) (STA. 21+23-WF TO STA. 22+77-WF)		ENGINEER: THE WALKER ASSOCIATES, PLLC		WORKING NUMBER TS-24		SHEET NUMBER 3.23	
										FILENAME: 178-11 Typical Sections.dwg		CHECKED BY DBG		DATE Jul 09, 2020			

FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Typical Sections.dwg
TS25
Jul 09, 2020 - 10:07pm
COUNTY: FORREST
DESIGNED BY: DBG
DRAWN BY: JGK
CHECKED BY: DBG
DESIGN TEAM: THE WALKER ASSOCIATES, PLLC

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

TYPICAL SECTION
WEST FRONTAGE ROAD
(BETWEEN ADELINE ST. & MAMIE ST.)
(STA. 22+77-WF TO STA. 29+66-WF)
(SHOWN AT STA. 25+75-WF)

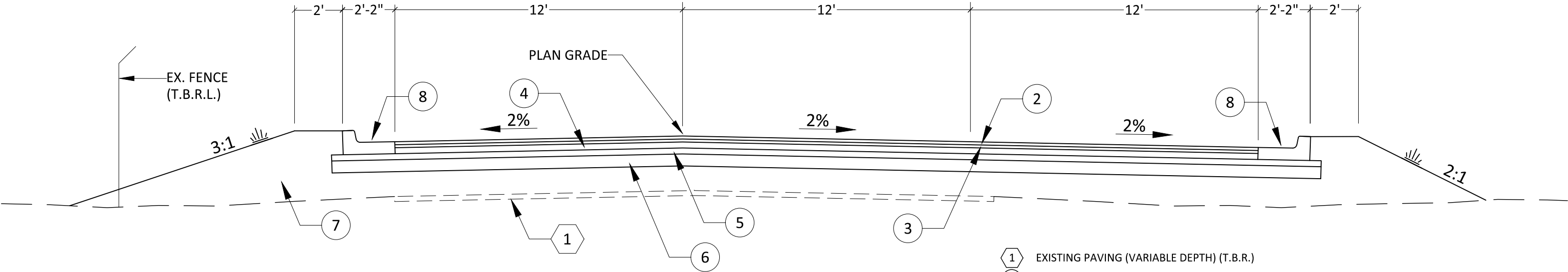


TYPICAL SECTION WEST FRONTAGE ROAD (BETWEEN ADELINE ST. & MAMIE ST.) (STA. 22+77-WF TO STA. 29+66-WF)			
ENGINEER: THE WALKER ASSOCIATES, PLLC			
WORKING NUMBER TS-25			
SHEET NUMBER 3.24			
FILENAME: 178-11 Typical Sections.dwg			
CHECKED BY: DBG DATE: Jul 09, 2020			

DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Typical Sections.dwg
TS-26
Jul 09, 2020 - 10:07pm
COUNTY: FORREST
DESIGNED BY: DBG
DRAWN BY: JGK
CHECKED BY: DBG

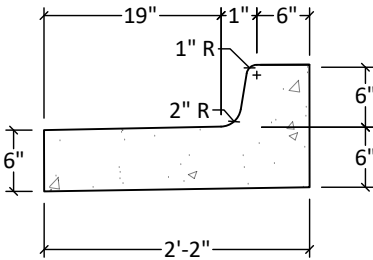
COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

TYPICAL SECTION
ADELINE STREET
(SHOWN AT STA. 12+10)



NOTES:
1. ALL CURB SHALL BE FORMED/SHAPED USING A CONCRETE MULE OR CURB MACHINE TO PROVIDE UNIFORM GEOMETRY AND FINISH.

- 1 EXISTING PAVING (VARIABLE DEPTH) (T.B.R.)
- 2 1.5" HOT MIX ASPHALT (HT 9.5 MM)
- 3 1.5" HOT MIX ASPHALT (HT 12.5 MM)
- 4 3.0" HOT MIX ASPHALT (HT 19 MM)
- 5 2.25" HOT MIX ASPHALT (ST 19 MM)
- 6 6" GRANULAR MATERIAL (CRUSHED STONE) (SIZE 610)
- 7 BORROW EXCAVATION (FME) (CONTRACTOR FURNISHED) (CLASS 9-8)
- 8 TYPE 1 MODIFIED CURB & GUTTER



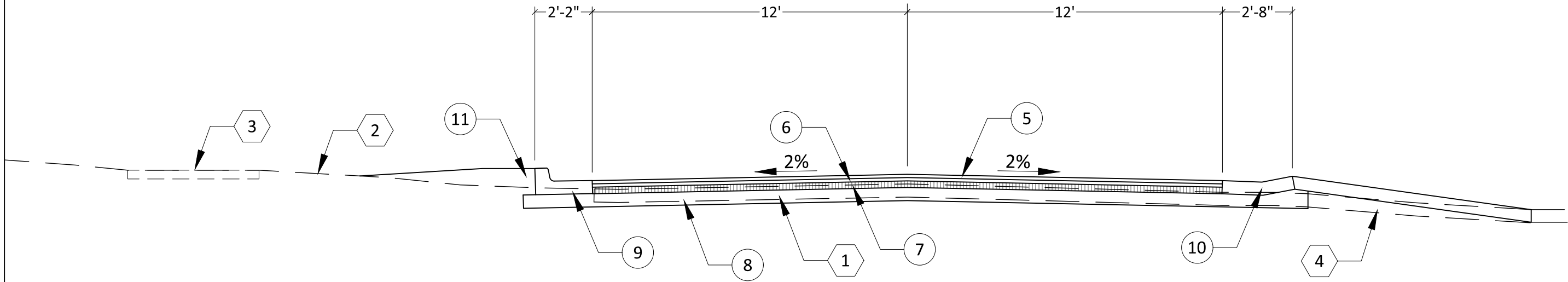
DETAIL OF TYPE 1 MODIFIED CURB AND GUTTER
SCALE: NTS

				BY	TYPICAL SECTION ADELINE STREET	
				REVISION		
ENGINEER: THE WALKER ASSOCIATES, PLLC					WORKING NUMBER TS-26	
DATE					SHEET NUMBER	
FILENAME: 178-11 Typical Sections.dwg					3.25	
CHECKED BY DBG					DATE Jul 09, 2020	

DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Typical Sections.dwg
TS27
Jul 09, 2020 - 10:07pm
COUNTY: FORREST
DESIGNED BY: DBG
DRAWN BY: JGK
CHECKED BY: DBG

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

TYPICAL SECTION
27TH AVENUE



NOTES:
1. ALL CURB SHALL BE FORMED/SHAPED USING A CONCRETE MULE OR CURB MACHINE TO PROVIDE UNIFORM GEOMETRY AND FINISH.

- 1 EXISTING PAVING (VARIABLE DEPTH) (TBR)
- 2 EXISTING GROUND (VARIABLE MATERIAL TYPE)
- 3 EXISTING SIDEWALK (I.P.T.R.)
- 4 EXISTING CONCRETE PARKING LOT (T.B.R.)
- 5 1.5" HOT MIX ASPHALT (HT 9.5 MM)
- 6 1.5" HOT MIX ASPHALT (HT 12.5 MM)
- 7 3" HOT MIX ASPHALT (HT 19 MM)
- 8 6" GRANULAR MATERIAL (CRUSHED STONE) (SIZE 610)
- 9 TYPE 1 CURB & GUTTER
- 10 VALLEY GUTTER
- 11 BORROW EXCAVATION (FME) (CONTRACTOR FURNISHED) (CLASS 9-8)

				BY	TYPICAL SECTION 27TH AVENUE	
				REVISION		
					ENGINEER: THE WALKER ASSOCIATES, PLLC	WORKING NUMBER TS-27
				DATE	FILENAME: 178-11 Typical Sections.dwg	SHEET NUMBER 3.26
					CHECKED BY DBG DATE Jul 09, 2020	

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

STATE AID PAY	PAY ITEM.	UNIT	PLAN	FINAL
ITEM NO.	ROADWAY ITEMS			
S-200-A	MOBILIZATION	L.S.	1	
S-201-A	CLEARING AND GRUBBING	L.S.	1	
S-202-B	REMOVAL OF DRAINAGE STRUCTURE (ALL SIZES AND DEPTHS)	EA.	26	
S-202-B	REMOVAL OF SIGN INCLUDING POST & FOOTING (ALL TYPES AND SIZES)	EA.	63	
1.5 S-202-B	REMOVAL OF TRAFFIC SIGNAL	EA.	1	
1.1 S-202-C	REMOVAL OF CONCRETE COMBINATION CURB & GUTTER	LIN. FT.	8,710	
1.3 S-202-C	REMOVAL OF TRAFFIC STRIPE (ALL TYPES)	LIN. FT.	7,665	
S-202-D	REMOVAL OF CONCRETE DRIVEWAYS, ALL DEPTHS	SQ. YD.	1,966	
S-202-D	REMOVAL OF LEGEND (ALL TYPES)	SQ. YD.	14.0	
1.2 S-202-D	REMOVAL OF PAVEMENT, ALL DEPTHS	SQ. YD.	18,363	
S-202-E	REMOVAL OF PIPE (ALL SIZES)	LIN. FT.	1,001	
S-203-E1	BORROW EXCAVATION (F.M.E.) (CONTRACTOR FURNISHED) (CLASS 9-8)	CU. YD.	9,344	
1.4 S-203-H	EXCESS EXCAVATION (FM)	CU. YD.	9,006	
S-206-A	STRUCTURE EXCAVATION	CU. YD.	252	
S-304-D	CRUSHED STONE (SIZE 610)	TON	5,767	
S-403-A	HOT MIX ASPHALT, (ST) (9.5MM)	TON	822	
S-403-A	HOT MIX ASPHALT, (ST) (12.5MM)	TON	621	
S-403-A	HOT MIX ASPHALT, (ST) (19MM)	TON	2,356	
S-403-C	HOT MIX ASPHALT, (ST) (19MM), TRENCH WIDENING	TON	17	
S-403-D	HOT MIX ASPHALT, (HT) (9.5MM), POLYMER MODIFIED	TON	279	
S-403-D	HOT MIX ASPHALT, (HT) (9.5MM), TRENCH WIDENING, POLYMER MODIFIED	TON	8	
S-403-D	HOT MIX ASPHALT, (HT) (12.5MM), POLYMER MODIFIED	TON	196	
S-403-D	HOT MIX ASPHALT, (HT) (19MM), POLYMER MODIFIED	TON	868	
S-403-D	HOT MIX ASPHALT, (HT) (19MM), TRENCH WIDENING, POLYMER MODIFIED	TON	23	
S-406-A	COLD MILLING OF BITUMINOUS PAVEMENTS, ALL DEPTHS	SQ. YD.	3,146	
S-601-B	CLASS "B" STRUCTURAL CONCRETE, MINOR STRUCTURES	CU. YD.	121	
S-602-A	REINFORCING STEEL	LBS.	11,182	
S-603-C-A	18" REINFORCED CONCRETE PIPE, CLASS III, RUBBER GASKET	LIN. FT.	778	
S-603-C-A	24" REINFORCED CONCRETE PIPE, CLASS III, RUBBER GASKET	LIN. FT.	316	
S-603-C-B	18" REINFORCED CONCRETE PIPE END SECTION	EA.	3	
S-603-C-B	24" REINFORCED CONCRETE PIPE END SECTION	EA.	2	
S-603-C-D	29"X18" REINFORCED CONCRETE ARCH PIPE, CLASS III	LIN. FT.	188	
S-603-C-D	22"X13" REINFORCED CONCRETE ARCH PIPE, CLASS III	LIN. FT.	61	
1.6 S-603-PVC	10" CORRUGATED POLY VINYL CHLORIDE PIPE	LIN. FT.	58	
1.6 S-603-PVC	18" CORRUGATED POLY VINYL CHLORIDE PIPE	LIN. FT.	142	
1.7 S-603-PVC-A	10" PVC INLET	EA.	1	
1.7 901-S-603-PVC-A	18" PVC INLET	EA.	5	
901-S-603-PVC-B	CORRUGATED POLY VINYL CHLORIDE PIPE FITTINGS	L.S.	1	
S-604-A	CASTINGS	LBS.	4,456	
S-604-B	GRATINGS	LBS.	2,881	
S-605-O	4" PERFORATED SEWER PIPE FOR UNDERDRAINS (SDR 26)	LIN. FT.	3,265	
S-605-P	4" NON-PERFORATED SEWER PIPE FOR UNDERDRAINS (SDR 26)	LIN. FT.	93	
S-605-P	6" NON-PERFORATED SEWER PIPE FOR UNDERDRAINS (SDR 26)	LIN. FT.	36	
S-605-X-1	FILTER MATERIAL FOR FILTER BEDS, TYPE B	CU. YD.	490	
S-605-AA	GEOTEXTILE FOR SUBSURFACE DRAINAGE, TYPE III, AOS (0.15-0.43)	SQ. YD.	1,100	

- 1.1
- ITEM INCLUDES ALL TYPES OF CURB AND/OR CURB AND GUTTER INCLUDING INTEGRAL, MONOLITHIC, HEADER, ETC. ALL INTEGRAL CURB SHALL BE SAWCUT FOR REMOVAL (NOT A SEPARATE PAY ITEM).
- 1.2
- IN THE EVENT THAT THE CONTRACTOR UTILIZES FULL DEPTH MILLING FOR PAVEMENT REMOVAL, THE UNIT PRICE FOR PAVEMENT REMOVAL WILL BE UTILIZED REGARDLESS OF THE METHOD OF REMOVAL. ONLY AREAS IDENTIFIED AS MILLING SHALL BE PAID AS SUCH.
- 1.3
- ITEM INCLUDES REMOVAL OF ALL STRIPE WIDTHS.
- 1.4
- ALL EXCESS EXCAVATION SHALL BE HAULED OFF-SITE. NO EXCESS SHALL BE CONSIDERED UNCLASSIFIED EXCAVATION UNLESS APPROVED BY ENGINEER.
- 1.5
- ITEM INCLUDES COMPLETE REMOVAL OF ALL TRAFFIC SIGNAL COMPONENTS WHICH SHALL BE SALVAGED TO THE CITY OF HATTIESBURG. ANY COMPONENTS DAMAGED DURING REMOVAL AND/OR STORAGE OF ITEMS SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 1.6
- ALL CPVC PIPE SHALL BE TRAFFIC RATED TO A MINIMUM OF HS-20 LOADING. (SUBMITTALS REQ'D)
- 1.7
- ITEM INCLUDES ALL FITTINGS NECESSARY FOR INSTALLATION OF THE PVC INLETS AND CPVC PIPING AS SHOWN ON THE PLANS INCLUDING BENDS, ADAPTERS, REDUCERS, ETC.

				BY	SUMMARY OF QUANTITIES	
				REVISION		
				DATE	ENGINEER: THE WALKER ASSOCIATES, PLLC	WORKING NUMBER SQ-1
					FILENAME: D:\Civil 3D - 178-11\dwg\178-11 Schedule.dwg - SQ-1	SHEET NUMBER 4.0
					CHECKED BY <u>DBG</u> DATE <u>Jul 16, 2020</u>	

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

- 2.1
- PAY ITEM INCLUDES ALL ITEMS NECESSARY FOR COMPLETE INSTALLATION OF THE PROPOSED CONCRETE VALVE VAULT INCLUDING REMOVAL AND REPLACEMENT OF THE EXISTING SQUARE NUT ON THE TOP OF THE VALVE AND REPLACEMENT WITH A FLYWHEEL (COORDINATE WITH CITY OF HATTIESBURG WATER DEPARTMENT 601-545-4530). (SEE MISCELLANEOUS DETAIL SHEETS FOR DETAILS).
- 2.2
- PAY ITEM INCLUDES ALL ITEMS NECESSARY AND AS SHOWN ON CONSTRUCTION SIGNING SHEETS FOR MAINTENANCE OF TRAFFIC INCLUDING ALL LIGHTS, SIGNAGE, BARRICADES, BARRELS, TEMPORARY TRAFFIC STRIPING, FLAGGERS, ETC.
- 2.3
- PAY ITEM WILL BE PAID FOR BASED ON THE PERCENTAGE OF PROJECT COMPLETE.
- 2.4
- PER MS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, MDOT- 2017.

NOTE: ALL WORK PERFORMED ON US HIGHWAY 49 SHALL BE PERFORMED BETWEEN THE HOURS OF 6:00 P.M. & 6:00 A.M. WITH ONE-LANE CLOSURES. ALL US HIGHWAY 49 LANES ***MUST*** BE OPEN TO TRAFFIC WITH NO LANE CLOSURES BY 6:00 A.M. EACH MORNING. ALL ITEMS NECESSARY FOR NIGHT WORK SHALL BE INCLUDED IN MAINTENANCE OF TRAFFIC PAY ITEMS.

				BY	SUMMARY OF QUANTITIES	
				REVISION		
				DATE		
ENGINEER: THE WALKER ASSOCIATES, PLLC					WORKING NUMBER	SQ-2
FILENAME: D:\Civil 3D - 178-11\dwg\178-11 Schedule.dwg - SQ-2					SHEET NUMBER	4.1
CHECKED BY <u>DBG</u> DATE <u>Jul 16, 2020</u>						

STATE AID PAY		PAY ITEM.	UNIT	PLAN	FINAL
ITEM NO.		TRAFFIC SIGNAL QUANTITIES			
3.6	3.6	907-632-A007	SOLID STATE TRAFFIC CABINET ASSEMBLY, TYPE III CABINET, TYPE 1 CONTROLLER	EACH	2
3.6	3.6	907-632-J001	POWER SERVICE PEDESTAL	EACH	2
3.6	3.2	907-634-A	TRAFFIC SIGNAL EQUIPMENT POLE, TYPE II(L), 30' POLE, 45' ARM	EACH	1
3.6	3.2	907-634-A	TRAFFIC SIGNAL EQUIPMENT POLE, TYPE III(L), 30' POLE, 50' & 55' ARM	EACH	1
3.6	3.2	907-634-A	TRAFFIC SIGNAL EQUIPMENT POLE, TYPE III(L), 30' POLE, 50' & 60' ARM	EACH	1
3.6	3.2	907-634-A	TRAFFIC SIGNAL EQUIPMENT POLE, TYPE III(L), 30' POLE, 60' & 60' ARM	EACH	1
3.6	3.2	907-634-A	TRAFFIC SIGNAL EQUIPMENT POLE, TYPE VI, 8' POLE	EACH	2
3.6	3.6	907-634-C001	POLE FOUNDATIONS, CLASS "B" CONCRETE	CU. YD.	17
3.6	3.6	907-634-PP001	LUMINAIRE FIXTURE AND ARM, PER PLANS	EACH	4
3.6	3.3	907-635-A059	TRAFFIC SIGNAL HEAD, TYPE 1	EACH	10
3.6	3.3	907-635-A065	TRAFFIC SIGNAL HEAD, TYPE 2 FYA	EACH	3
3.6	3.3	907-635-A070	TRAFFIC SIGNAL HEAD, TYPE 3	EACH	2
3.6	3.3	907-635-A073	TRAFFIC SIGNAL HEAD, TYPE 4	EACH	1
3.6	3.3	907-635-A074	TRAFFIC SIGNAL HEAD, TYPE 4R	EACH	1
3.6	3.3	907-635-A076	TRAFFIC SIGNAL HEAD, TYPE 6	EACH	4
3.6	3.6	907-636-B014	ELECTRIC CABLE, UNDERGROUND IN CONDUIT, IMSA 20-1, AWG #14, 5 CONDUCTOR	LIN. FT.	578
3.6	3.6	907-636-B016	ELECTRIC CABLE, UNDERGROUND IN CONDUIT, IMSA 20-1, AWG #14, 8 CONDUCTOR	LIN. FT.	889
3.6	3.6	907-636-B027	ELECTRIC CABLE, UNDERGROUND IN CONDUIT, IMSA 20-1, AWG #8, 2 CONDUCTOR	LIN. FT.	450
3.6	3.4	907-636-D007	ELECTRIC CABLE, AERIAL SUPPORTED IN CONDUIT, IMSA 20-1, AWG #14, 7 CONDUCTOR	LIN. FT.	355
3.6	3.6	907-637-A001	PULLBOX ENCLOSURE, TYPE 1	EACH	4
3.6	3.6	907-637-A002	PULLBOX ENCLOSURE, TYPE 2	EACH	5
3.6	3.6	907-637-A003	PULLBOX ENCLOSURE, TYPE 3	EACH	2
3.6	3.6	907-637-A004	PULLBOX ENCLOSURE, TYPE 4	EACH	1
3.6	3.6	907-637-C028	TRAFFIC SIGNAL CONDUIT, UNDERGROUND, TYPE 4, 2"	LIN. FT.	2,077
3.6	3.6	907-637-C030	TRAFFIC SIGNAL CONDUIT, UNDERGROUND, TYPE 4, 3"	LIN. FT.	54
3.6	3.6	907-637-D009	TRAFFIC SIGNAL CONDUIT, UNDERGROUND DRILLED OR JACKED,TYPE 4, 2"	LIN. FT.	246
3.6	3.6	907-637-D013	TRAFFIC SIGNAL CONDUIT, UNDERGROUND DRILLED OR JACKED,TYPE 4, 4"	LIN. FT.	276
3.6	3.0	907-639-B001	TYPE 1 OPTICAL DETECTOR	EACH	7
3.6	3.6	907-639-C001	TYPE 1 OPTICAL DETECTOR CABLE	LIN. FT.	1,233
3.6	3.1	907-639-D001	MULTIMODE PHASE SELECTOR	EACH	2
3.6	3.6	907-640-A001	VEHICLE LOOP ASSEMBLIES	LIN. FT.	192
3.6	3.6	907-640-B002	SHIELDED CABLE, AWG #18, 4 CONDUCTOR	LIN. FT.	2,106
3.6	3.6	907-640-C002	LOOP DETECTOR AMPLIFIER, 4 CHANNEL	EACH.	2
3.6	3.6	907-643-A004	VIDEO VEHICLE DETECTION SENSOR TYPE 1A	EACH	7
3.6	3.6	907-645-B001	ACCESSIBLE PEDESTRIAN DETECTION ASSEMBLY	EACH	4
3.6	3.6	907-653-A001	TRAFFIC SIGN	SQ. FT.	42
3.6	3.6	907-653-B001	STREET NAME SIGN	SQ. FT.	70

- 3.0 CONTROLLER TO BE COMPATIBLE WITH MDOT'S EXISTING TRAFFIC SIGNAL MANAGEMENT SOFTWARE AND TO ETHERNET READY. CABINETS TO HAVE A PULLOUT TRAY AND HAVE A BACKDOOR ACCESS. POLICE PANELS TO HAVE AN AUTO-HAND SWITCH.
- 3.1 PHASE SELECTOR TO BE SECURITY ENABLED.
- 3.2 TRAFFIC SIGNAL POLES TO BE POWDER COATED BLACK.
- 3.4 HEADS TO BE YELLOW WITH BLACK BACKPLATES.
- 3.5 VIDEO DETECTOR CABLE TO BE ABSORBED INTO THIS PAY ITEM.
- 3.6 PER MS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, MDOT-2017.

			BY	SUMMARY OF QUANTITIES	
			REVISION		
			DATE	ENGINEER: THE WALKER ASSOCIATES, PLLC	WORKING NUMBER SQ-3
				FILENAME: D:\Civil 3D - 178-11\dwg\178-11 Schedule.dwg - SQ-3	SHEET NUMBER 4.2
				CHECKED BY DBG	DATE Jul 16, 2020

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

STATE AID PAY	PAY ITEM.	UNIT	PLAN	FINAL
ITEM NO.	EROSION CONTROL			
S-211-B	TOPSOIL FOR SLOPE TREATMENT, (CONTRACTOR FURNISHED) (LVM)	CU. YD.	1,200	
S-212-A	AGRICULTURE LIMESTONE	TON	1.0	
4.9S-215-A	VEGETATIVE MATERIALS FOR MULCH	TON	1.0	
S-212-B	COMMERCIAL FERTILIZER (13-13-13)	TON	0.5	
S-212-F	AMMONIUM NITRATE	TON	0.050	
4.10S-214-A	SEEDING	ACRE	0.5	
4.11226-A	TEMPORARY GRASSING	ACRE	3.5	
S-233-A	TEMPORARY SILT FENCE (TYPE II) (AOS 0.15-0.84)	LIN. FT.	3,401	
4.11246-A	SANDBAGS	EACH	393.0	
4.11237-A	WATTLES, 20"	LIN. FT.	830	
STATE AID PAY	PAY ITEM.	UNIT	PLAN	FINAL
ITEM NO.	UTILITY RELOCATION			
4.2S-202-B	REMOVAL OF FIRE HYDRANT	EA.	1	
S-604-C	PRECAST MANHOLE, 48" DIAMETER (WATER VALVE VAULT)	EA.	1	
4.3S-604-C	PRECAST MANHOLE, 72" DIAMETER (SPECIAL DESIGN)	EA.	1	
S-613-D	ADJUSTMENT OF PARKING LOT LIGHTING SYSTEM	L.S.	1	
4.8S-613-E	ADJUSTMENT OF COMMUNICATION VAULT	EA.	2	
4.6S-613-E	ADJUSTMENT OF FIBER OPTIC BOX	EA.	1	
4.7S-613-E	ADJUSTMENT OF MANHOLE	EA.	3	
4.4S-613-E	ADJUSTMENT OF WATER METER	EA.	8	
4.5S-613-E	ADJUSTMENT OF WATER VALVE	EA.	6	
901-S-613-F	ADJUSTMENT OF SEWER SERVICE LINE	LIN. FT.	100	
4.1901-S-613-F	FIRE HYDRANT ASSEMBLY	EA.	1	
4.0901-S-613-G	ADJUSTMENT OF 2" SDR-21 (GASKET PIPE) WATER MAIN (ALL DEPTHS)	LIN. FT.	440	

4.0 PAY ITEM INCLUDES INSTALLATION OF ALL DEPTHS OF WATER MAIN AS SHOWN ON THE PLANS AND ALL TESTING AS INDICATED ON THE PLANS AND THE SPECIFICATIONS. **ALL CITY OF HATTIESBURG TAPPING FEES SHALL BE ABSORBED INTO THIS PAY ITEM.**

4.1 ITEM INCLUDES ALL ITEMS NECESSARY FOR COMPLETE INSTALLATION OF THE HYDRANT INCLUDING PIPING FROM EXISTING WATER MAINS TO PROPOSED HYDRANT, ALL ITEMS SHOWN IN FIRE HYDRANT DETAIL SHEET, AND TESTING AS PER SPECIFICATIONS. ALL HYDRANTS AND VALVES SHALL BE OF A MANUFACTURER AND COLOR AND APPROVED BY THE CITY OF HATTIESBURG WATER DEPARTMENT (601-545-4530). (SUBMITTALS REQ'D)

4.2 ITEM INCLUDES REMOVAL OF THE HYDRANT AND ABANDONMENT OF THE HYDRANT VALVE (IF INSTALLED). FOR HYDRANTS WITHOUT A VALVE, ALL COSTS ASSOCIATED WITH TEMPORARY CITY OF HATTIESBURG WATER SYSTEM OUTAGE, TESTING AS PER SPECIFICATIONS, AND FEES ASSESSED BY THE CITY OF HATTIESBURG SHALL BE INCLUDED IN PAY ITEM.

4.3 PAY ITEM INCLUDES ALL ITEMS NECESSARY FOR COMPLETE INSTALLATION OF THE PROPOSED MANHOLE INCLUDING REMOVAL OF THE EXISTING MANHOLE (SEE MISCELLANEOUS DETAIL SHEETS FOR DETAILS).

4.4 MULTIPLE MANHOLES INDICATED ON THE PLANS AS TO BE RAISED ARE BRICK TYPE CONSTRUCTION. IT WILL BE THE RESPONSIBILITY OF CONTRACTOR TO VISIT THE SITE **PRIOR TO BIDDING** AND DETERMINE WHAT ITEMS WILL BE NECESSARY FOR RAISING OF MANHOLES. ALL ITEMS NECESSARY FOR RAISING MANHOLES SHALL BE INCLUDED IN THE PROVIDED PAY ITEMS.

4.5 PAY ITEM INCLUDES ALL ITEMS NECESSARY FOR REMOVAL AND RELOCATION (AND/OR ABANDONMENT) OF EXISTING WATER METERS. **ALL TESTING AND FEES REQUIRED BY THE CITY OF HATTIESBURG SHALL BE INCLUDED IN THIS PAY ITEM.**

4.6 PAY ITEM INCLUDES ALL ITEMS NECESSARY FOR ADJUSTMENT OF THE EXISTING CONCRETE COMMUNICATION VAULTS. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING AND DETERMINE WHAT ITEMS WILL BE NECESSARY FOR RAISING OF COMMUNICATION VAULTS (ALL CONCRETE COMMUNICATION VAULTS SHALL REMAIN TRAFFIC RATED AFTER RAISING).

4.7 PAY ITEM INCLUDES ALL ITEMS NECESSARY FOR RAISING ON EXISTING FIBER OPTIC HANDHOLES (ALL UTILITY OWNERS). REMOVAL AND RESETTNG OF EXISTING HANDHOLES IS PERMITTED AND SHALL BE COORDINATED WITH EACH UTILITY OWNER. **ANY FEES ASSOCIATED WITH ADJUSTMENT OF HANDHOLES SHALL BE INCLUDED IN THIS PAY ITEM.**

4.8 PAY ITEM INCLUDES ALL ITEMS NECESSARY FOR COMPLETE REMOVAL AND RELOCATION OF THE EXISTING FORREST GENERAL HOSPITAL PARKING LOT LIGHTING SYSTEM NEAR THE EXISTING CAMP STREET/27TH AVENUE INTERSECTION. **ALL NEW WIRING, CONDUIT, ETC. NECESSARY FOR RELOCATION SHALL BE INCLUDED IN THIS PAY ITEM.** SEE MISCELLANEOUS DETAIL SHEETS FOR DETAILS.

4.9 MULCH SHALL BE SPREAD TO A MINIMUM OF 2" DEPTH.

4.10 CONTRACTOR SHALL INCLUDE ALL WATERING AND MAINTENANCE NECESSARY TO ESTABLISH THE GRASSING AND PLANTINGS DURING THE CONTRACT. NO SEPARATE PAY ITEM WILL BE ESTABLISHED FOR MAINTENANCE OF GRASS (INCLUDING SOD) & PLANTINGS.

4.11 PER MS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, MDOT- 2017.

				BY	SUMMARY OF QUANTITIES	
				REVISION		
				DATE	ENGINEER: THE WALKER ASSOCIATES, PLLC	WORKING NUMBER SQ-4
					FILENAME: D:\Civil 3D - 178-11\dwg\178-11 Schedule.dwg - SQ-4	SHEET NUMBER 4.3
					CHECKED BY <u>DBG</u> DATE <u>Jul 16, 2020</u>	

STATE AID PAY	PAY ITEM.	UNIT	PLAN	FINAL
ITEM NO.	NON-PARTICIPATING ROADWAY ITEMS			
S-202-C	REMOVAL OF CONCRETE COMBINATION CURB & GUTTER	LIN. FT.	85	
S-202-C	REMOVAL OF FENCE	LIN. FT.	318	
S-202-D	REMOVAL OF PAVEMENT ALL TYPES AND DEPTHS	SQ. YD.	771	
S-203-E1	BORROW EXCAVATION (F.M.E.) (CONTRACTOR FURNISHED) (CLASS 9-8)	CU. YD.	250	
5.0 S-203-H	EXCESS EXCAVATION, FM	CU. YD.	650	
S-304-D	CRUSHED STONE (SIZE 610)	TON	181	
S-403-A	HOT MIX ASPHALT, (ST) (9.5MM)	TON	434	
S-403-A	HOT MIX ASPHALT, (ST) (19MM)	TON	37	
S-413-C	CLEANING AND SEALING CRACKS	LIN. FT.	3,000	
S-601-B	CLASS B STRUCTURAL CONCRETE, MINOR STRUCTURES	CU. YD.	2	
907-682-G	2" NON-PERFORATED PIPE FOR FUTURE ELECTRICAL CONDUIT	LIN. FT.	400	
S-605-U	4" NON-PERFORATED PIPE FOR FUTURE IRRIGATION CONDUIT	LIN. FT.	1,200	
S-608-A	CONCRETE SIDEWALK	SQ. YD.	1,955	
S-609-B	CONCRETE CURB, TYPE 1 HEADER	LIN. FT.	1,971	
S-613-D	ADJUSTMENT OF FENCE	L.S.	1	
S-613-D	ADJUSTMENT OF PARKING BUMPERS	L.S.	1	
S-613-E	ADJUSTMENT OF BICYCLE PARKING	EA.	1	
S-613-E	ADJUSTMENT OF TRASH CAN	EA.	1	
5.2 S-619-F	DETAIL TRAFFIC STRIPE	LIN. FT.	2,035	
5.2 S-621-H-3	THERMOPLASTIC LEGEND (YELLOW) (60 MILS)	LIN. FT.	88	
5.2 626-G	THERMOPLASTIC DETAIL STRIPE, BLUE	LIN. FT.	347	
5.2 626-H	THERMOPLASTIC LEGEND, BLUE	SQ. FT.	46	
907-682-G	2" NON-PERFORATED PIPE FOR FUTURE ELECTRICAL CONDUIT	LIN. FT.	400	
809-A	MODULAR BLOCK RETAINING WALL SYSTEM	SF	250	
STATE AID PAY	PAY ITEM.	UNIT	PLAN	FINAL
ITEM NO.	NON-PARTICIPATING EROSION CONTROL ITEMS			
S-211-B	TOPSOIL FOR SLOPE TREATMENT (CONTRACTOR FURNISHED) (LVM)	CU. YD.	50	
5.1 S-226-A	SOLID SODDING	SQ. YD.	16,250	

- 5.0 ALL EXCESS EXCAVATION SHALL BE HAULED OFF-SITE. NO EXCESS SHALL BE CONSIDERED UNCLASSIFIED EXCAVATION UNLESS APPROVED BY ENGINEER.
- 5.1 CONTRACTOR SHALL INCLUDE ALL WATERING AND MAINTENANCE NECESSARY TO ESTABLISH THE SOLID SODDING DURING THE CONTRACT. NO SEPARATE PAY ITEM WILL BE ESTABLISHED FOR MAINTENANCE OF SOD.
- 5.2 PER MS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, MDOT- 2017.

				BY
			REVISION	
SUMMARY OF QUANTITIES				
ENGINEER: THE WALKER ASSOCIATES, PLLC				WORKING NUMBER SQ-5
		DATE	FILENAME: D:\Civil 3D - 178-11\dwg\178-11 Schedule.dwg - SQ-5	
			CHECKED BY DBG	DATE Jul 16, 2020
				SHEET NUMBER 4.4

CURB REMOVAL SCHEDULE (ALL TYPES)														COUNTY	STATE	PROJECT NUMBER		
SHEET NO.	ALIGNMENT	SIDE	STATION TO STATION		LENGTH	TYPE CURB	DESC.									FORREST	MISS.	DECD - 0018(35)BO
PR-1	ARLINGTON	RT.	10+25	11+55	180.0	TY-1	EX. PARKING LOT C&G AT SE CORNER OF28TH/ARLINGTON INTERSECTION											
PR-1	ARLINGTON	LT.	11+07	11+36	39.0	TY-1	ALONG OLD MAMIE ST. ALIGNMENT (NORTH SIDE)											
PR-1	ARLINGTON	LT.	11+64	12+30	77.0	TY-1	ALONG OLD MAMIE ST. ALIGNMENT (NORTH SIDE)											
PR-1	ARLINGTON	LT.	12+35	12+81	52.0	TY-1	ALONG OLD MAMIE ST. ALIGNMENT (NORTH SIDE)											
PR-1	ARLINGTON	LT.	12+86	13+25	181.0	TY-1	ALONG WEST SIDE OF 27th											
PR-1	ARLINGTON	RT.	13+05	13+65	74.0	TY-1	ALONG CONNECTOR BETWEEN 27TH AVE AND EX. MAMIE ST.											
PR-1	ARLINGTON	RT.	11+07	13+15	406.0	TY-1	ALONG SW SIDE OF EX. MAMIE TO EX. PARKING LOT ENTRANCE ON WEST SIDE OF ER ACCESS DRIVE											
PR-1	ARLINGTON	LT.	---	---	258.0	TY-1	ALONG EAST SIDE OF MAMIE BETWEEN EX. CURB INLET AT INTERSECTION OF 27TH/MAMIE TO STA. 13+00 ON ER DRIVE											
PR-1A ER	ER-DRIVE	RT.	---	---	22.0	HEADER	PUBLIC ER PARKING LOT ENTRANCE											
PR-1A ER	ER-DRIVE	LT.	13+00	14+14	114.0	TY-1	ALONG EX. MAMIE ST. (EAST SIDE)											
PR-1A ER	ER-DRIVE	RT.	14+19	15+67	151.0	TY-1	ALONG EX. MAMIE ST. (EAST SIDE)											
PR-1A ER	ER-DRIVE	RT.	15+73	---	94.0	TY-1	ALONG EX. MAMIE ST. (EAST SIDE) TO EX. CROSSWALK											
PR-1A ER	ER-DRIVE	RT.	---	---	88.0	TY-1	ALONG EX. MAMIE ST. FROM PUBLIC ER DROPOFF EXIT TO FRONT CANOPY ENTRANCE ON SOUTH SIDE OF EX. MAMIE											
PR-1A ER	ER-DRIVE	RT.	15+05	16+52	162.0	TY-1	ALONG EX. MAMIE ST. FROM PUBLIC ER DROPOFF/PARKING ENTRANCE TO PUBLIC ER DROPOFF EXIT											
PR-1A ER	ER-DRIVE	RT.	12+75	14+12	137.0	TY-1	ALONG EX. MAMIE ST. (WEST SIDE) FROM STAFF PARKING ENTRANCE TO EX. CURB INLET AT STA. 14+12											
PR-1A ER	ER-DRIVE	RT.	14+17	14+89	92.0	TY-1	ALONG EX. MAMIE ST. (WEST SIDE) FROM EX. CURB INLET AT STA. 14+12 TO EX. CURB INLET AT PUBLIC ER DROPOFF/ENTRANCE DRIVE											
PR-2	MAMIE	RT.	16+85	17+30	37.0	TY-1	MAMIE ST. SOUTH SIDE											
PR-2	MAMIE	RT.	17+31	17+77	40.0	TY-1	MAMIE ST. SOUTH SIDE											
PR-2	MAMIE	LT.	16+85	17+21	51.0	HEADER	HEADER CURB ON WEST SIDE OF EX. CONC. DRIVE TO FRONT CANOPY											
PR-2	MAMIE	LT.	19+79	19+95	25.0	TY-1	RADIUS BETWEEN EX. MAMIE AND WEST FRONTAGE ON NORTH SIDE OF MAMIE											
PR-2	MAMIE	RT.	19+88	20+08	20.0	TY-1	RADIUS BETWEEN EX. MAMIE AND WEST FRONTAGE ON SOUTH SIDE OF MAMIE											
PR-2	MAMIE	RT.	19+17	19+37	20.0	TY-1	ALONG SOUTH EDGE OF EX. MAMIE											
PR-2	MAMIE	LT.	---	---	25.0	TY-1	RADIUS BETWEEN SOUTHBOUND LANE OF HWY 49 AND WEST FRONTAGE ON NORTH SIDE OF EX. MAMIE											
PR-2	MAMIE	RT.	17+81	17+90	9.0	TY-1	NORTH SIDE OF EX. MAMIE											
PR-2	MAMIE	RT.	---	---	8.0	HEADER	ENTRANCE TO FGH PARKING LOT ON W.F. ROAD											
PR-3	HWY 49	---	192+84	196+00	316.0	TY-3	SOUTHBOUND LANE MEDIAN											
PR-3	HWY 49	---	192+84	196+00	316.0	TY-3	NORTHBOULD LANE MEDIAN											
PR-4	HWY 49	---	196+00	201+05	505.0	TY-3	SOUTHBOUND LANE MEDIAN											
PR-4	HWY 49	---	196+00	201+05	505.0	TY-3	NORTHBOULD LANE MEDIAN											
PR-5	HWY 49	---	202+60	203+98	138.0	TY-3	CURB ALONG MEDIAN FOR NORTH BOUND LANES											
PR-5	HWY 49	---	204+08	208+30	422.0	TY-3	CURB ALONG MEDIAN FOR NORTH BOUND LANES											
PR-6	HWY 49	---	208+30	209+60	130.0	TY-3	CURB ALONG MEDIAN FOR NORTH BOUND LANES											
PR-6	HWY 49	---	210+40	214+75	435.0	TY-3	MEDIAN FOR NORTH BOUND LANES											
PR-6	HWY 49	---	210+40	214+75	435.0	TY-3	MEDIAN FOR SOUTH BOUND LANES											
PR-6	W.F.	---	32+65	33+20	60.0	MISC.	ABANDONED DRIVES TO GRASSED PARCEL IMMEDIATELY NORTH OF EX. MAMIE											

CURB REMOVAL SCHEDULE (ALL TYPES)							
SHEET NO.	ALIGNMENT	SIDE	STATION TO STATION		LENGTH	TYPE CURB	DESC.
PR-7	HWY 49	---	214+75	217+40	265.0	TY-3	MEDIAN FOR SOUTH BOUND LANES
PR-7	HWY 49	---	217+40	219+95	255.0	TY-3	MEDIAN FOR SOUTH BOUND LANES
PR-7	HWY 49	---	219+95	221+20	125.0	TY-3	MEDIAN FOR SOUTH BOUND LANES
PR-7	HWY 49	---	214+75	217+40	265.0	TY-3	MEDIAN FOR NORTH BOUND LANES
PR-7	HWY 49	---	217+40	219+95	255.0	TY-3	MEDIAN FOR NORTH BOUND LANES
PR-7	HWY 49	---	219+95	221+20	125.0	TY-3	MEDIAN FOR NORTH BOUND LANES
PR-7	HWY 49	---	215+66	217+44	182.0	TY-1	ALONG WEST EOP (SOUTH BOUND LANES)
PR-7	E.F.	RT.	34+53	34+62	15.0	TY-1	PARKING LOT ENTRANCE ON E.F. (S. OF CAMP ST)
PR-7	E.F.	RT.	34+79	34+86	20.0	TY-1	PARKING LOT ENTRANCE ON E.F. (S. OF CAMP ST)
PR-7	E.F.	RT.	35+28	35+34	11.0	TY-1	PARKING LOT ENTRANCE ON E.F. (S. OF CAMP ST)
PR-7	E.F.	RT.	35+54	35+62	16.0	TY-1	PARKING LOT ENTRANCE ON E.F. (S. OF CAMP ST)
PR-8	HWY 49	---	221+20	222+99	179.0	TY-3	MEDIAN FOR NORTH BOUND LANES
PR-8	HWY 49	---	221+20	222+99	179.0	TY-3	MEDIAN FOR SOUTH BOUND LANES
PR-8	HWY 49	---	223+95	225+65	170.0	SLOTTED CURB	MEDIAN
PR-9	CAMP ST	LT.	---	---	50.0	TY-1	COMMUNITY BANK PARKING ENTRANCE N. OF CAMP
PR-9	CAMP ST	RT.	---	---	265.0	TY-1	PARKING LOT SOUTH OF CAMP ST.
PR-10	CAMP ST	RT.	19+65	19+82	40.0	HEADER	GREEN ISLAND AT RESIDENCE (SOUTH SIDE OF CAMP)
PR-10	CAMP ST	RT.	20+01	20+65	94.0	TY-1/HEAD E R	ALONG SOUTH SIDE OF CAMP @ 25TH AVE.
PR-11	ADELINE ST	LT.	10+00	12+85	285.0	TY-2	NORTH SIDE OF ADELINE ST. (INCLUDING RADIUS)
PR-11	ADELINE ST	RT.	10+00	12+90	290.0	TY-2	SOUTH SIDE OF ADELINE ST.
					8,710.0	TOTAL	
					L.F.		

				BY
			REVISION	
			DATE	

ESTIMATED QUANTITIES														
CURB & GUTTER REMOVAL														
ENGINEER: THE WALKER ASSOCIATES, PLLC													WORKING NUMBER EQ-1	
FILENAME: D:\Civil 3D - 178-11\dwg\178-11 Schedule.dwg - C&G Removal													SHEET NUMBER 5.0	
CHECKED BY DBG DATE Jul 09, 2020														

PAVEMENT REMOVAL SCHEDULE (ASPHALT & CONCRETE)								PAVEMENT REMOVAL SCHEDULE (ASPHALT & CONCRETE)							
SHEET NO.	ALIGNMENT	STATION TO STATION		AVG. WIDTH	MISC. PAVING	CONC. DRIVE	DESC.	SHEET NO.	ALIGNMENT	STATION TO STATION		AVG. WIDTH	MISC. PAVING	CONC. DRIVE	DESC.
PR-1	CAMP	10+26-C	11+57-C	---	253.0	---	PARKING LOT SOUTH OF MAMIE ST.	PR-7	US HWY 49	215+66	216+57	---	78.0	---	US HWY SOUTHBOUND RT SHOULDER
PR-1	CAMP	11+38-C	11+63-C	---	22.0	20.0	CONC. DRIVE NORTH OF MAMIE ST.	PR-7	US HWY 49	215+11	222+98	---	255.0	---	HWY 49 MEDIAN PAVING (DOES NOT INCLUDE C&G)
PR-1	CAMP	11+07-C	13+20-C	36	1,078.0	---	MAMIE ST.	PR-7	EAST FRONTAGE	32+83-EF	38+54-EF	25.00	1,596.0	---	EAST FRONTAGE ROAD (NEAR CAMP STREET)
PR-1	CAMP	11+63-C	11+78-C	---	8.0	---	PARKING LOT NORTH OF MAMIE ST.	PR-7	EAST FRONTAGE	34+51-EF	34+61-EF	---	4.0	---	CONC. SIDEWALK EAST OF EAST FRONTAGE RD.
PR-1	CAMP	11+82-C	13+07-C	---	286.0	---	PARKING LOT NORTH OF MAMIE ST.	PR-7	EAST FRONTAGE	34+56-EF	34+87-EF	---	---	18.0	CONC. DRIVE EAST OF EAST FRONTAGE RD.
PR-1	CAMP	12+64-C	13+56-C	24	299.0	---	CONNECTOR STREET BETWEEN CAMP ST., MAMIE ST., AND 27TH AVE.	PR-7	EAST FRONTAGE	34+81-EF	35+35-EF	---	23.0	---	CONC. SIDEWALK EAST OF EAST FRONTAGE RD.
PR-1	CAMP	13+22-C	13+52-C	24	167.0	---	27TH AVE (BETWEEN CAMP ST. & MAMIE ST.)	PR-7	EAST FRONTAGE	35+29-EF	35+62-EF	---	---	22.0	CONC. DRIVE EAST OF EAST FRONTAGE RD.
PR-1	CAMP	11+38-C	11+43-C	---	4.0	---	CONC. SIDEWALK NORTH OF MAMIE ST.	PR-7	EAST FRONTAGE	37+33-EF	37+53-EF	---	4.0	---	ASPHALT DRIVE EAST OF EAST FRONTAGE RD.
PR-1	CAMP	11+62-C	13+20-C	---	124.0	---	CONC. SIDEWALK NORTH OF MAMIE ST.	PR-7	EAST FRONTAGE	37+67-EF	38+24-EF	---	14.0	---	ASPHALT DRIVE EAST OF EAST FRONTAGE RD.
PR-1	CAMP	13+05-C	13+66-C	---	147.0	---	CONC. SIDEWALK NORTHEAST OF MAMIE ST.	PR-7	WEST FRONTAGE	37+96-WF	38+36-WF	---	---	69.0	COMMUNITY BANK ENTRANCE ON WEST FRONTAGE RD.
PR-1A-ER	ER ENTRANCE BLVD	11+10	12+36	12	152.0	---	ASPHALT PAVEMENT MAMIE ST.	PR- 8	US HWY 49	222+06	223+95	---	262.0	---	US HWY 49 PAVEMENT
PR-1A-ER	ER ENTRANCE BLVD	12+45	---	---	2.0	---	DRIVE WEST OF MAMIE ST.	PR- 8	US HWY 49	223+95	225+65	---	240.0	---	US HWY 49 MEDIAN
PR-1A-ER	ER ENTRANCE BLVD	12+75	---	---	4.0	---	DRIVE WEST OF MAMIE ST.								
PR-1A-ER	ER ENTRANCE BLVD	12+75	---	---	---	10.0	CONC. DRIVE WEST OF MAMIE ST.	PR-9	CAMP	13+55-C	16+22-C	---	717.0	---	ARLINGTON LP.
PR-1A-ER	ER ENTRANCE BLVD	12+95	16+23	---	227.0	---	CONC. SIDEWALK EAST OF MAMIE ST.	PR-9	CAMP	13+52-C	14+89-C	---	---	510.0	CONC. DRIVE NORTHEAST OF ARLINGTON LP. & 27TH AVE.
PR-1A-ER	ER ENTRANCE BLVD	10+80	14+05	---	633.0	---	PARKING LOT EAST MAMIE ST.	PR-9	CAMP	13+67-C	15+55-C	---	894.0	---	FGH PARKING LOT SOUTH OF CAMP ST.
PR-1A-ER	ER ENTRANCE BLVD	12+94	15+00	12	305.0	---	ASPHALT PAVEMENT MAMIE ST.	PR-9	CAMP	---	---	---	27.00	---	FGH PARKING LOT SOUTH OF CAMP ST. CONC. ISLANDS
PR-1A-ER	ER ENTRANCE BLVD	12+81	14+86	12	243.0	---	ASPHALT PAVEMENT MAMIE ST.	PR-9	CAMP	14+84-C	15+25-C	---	---	81.00	COMMUNITY BANK ENTRANCE ON CAMP ST.
PR-1A-ER	ER ENTRANCE BLVD	14+73	15+28	---	---	192.0	CONC. DRIVE @ MAMIE ST.	PR-9	CAMP	13+67-C	15+55-C	---	894.0	---	FGH PARKING LOT SOUTH OF CAMP ST.
PR-1A-ER	ER ENTRANCE BLVD	15+14	16+31	28	301.0	---	ASPHALT PAVEMENT MAMIE ST.								
PR-1A-ER	ER ENTRANCE BLVD	16+25	16+40	---	---	52.0	CONC. DRIVE@ ER EXIT	PR-10	CAMP	18+14-C	20+70-C	17.00	528.0	---	CAMP ST. PAVEMENT
								PR-10	CAMP	18+47-C	19+35-C	---	---	271.0	CONC. DRIVE SOUTH OF CAMP ST.
PR-2	FGH MAIN ENTRANCE	---	---	---	623.0	---	BETWEEN FGH MAIN ENTRANCE & ER ENTRANCE	PR-10	CAMP	19+35-C	20+14-C	---	---	73.0	CONC. DRIVE SOUTH OF CAMP ST.
PR-2	FGH MAIN ENTRANCE	17+76	20+90	14	772.0	---	FGH MAIN ENTRANCE								
PR-2	FGH MAIN ENTRANCE	---	17+90	---	---	176.0	CONC. DRIVE FGH MAIN ENTRANCE	PR-11	ADELINE	10+00	13+28	24.00	902.0	---	ADELINE ST. PAVEMENT
								PR-11	ADELINE	10+00	11+12	---	---	114.0	CONC. DRIVE NORTH OF ADELINE ST.
PR-3	US HWY 49	192+95	195+15	---	124.0	---	US HWY 49 PAVEMENT (INCLUDES C&G ALONG MEDIAN)	PR-11	ADELINE	11+54	11+95	---	---	73.0	CONC. DRIVE AND SIDEWALK SOUTH OF ADELINE ST.
								PR-11	ADELINE	12+40	12+81	---	---	197.0	CONC. DRIVE SOUTH OF ADELINE ST.
PR-4	US HWY 49	192+84	201+13	12.00	768.0	---	US HWY 49 MEDIAN PAVING (DOES NOT INCLUDE C&G)	PR-11	ADELINE	21+74-WF	22+17-WF	---	---	88.0	CONC. DRIVE ON WEST FRONTAGE ROAD
PR-5	US HWY 49	201+12	202+60	12.00	245.0	---	US HWY 49 MEDIAN PAVING (DOES NOT INCLUDE C&G)					TOTALS	18,363.0	1,966.0	
PR-5	US HWY 49	202+60	210+00	10.50	794.0	---	US HWY 49 MEDIAN PAVING (DOES NOT INCLUDE C&G)						S.Y.	S.Y.	
PR-5	US HWY 49	203+60	207+47	1.00	40.0	---	US HWY 49 MEDIAN PAVING (DOES NOT INCLUDE C&G)	NOTE: AVG WIDTHS ARE FOR REFERENCE ONLY. AREAS SHOWN ARE MEASURED FROM FIELD COLLECTED SURVEY DATA.							
PR-5	US HWY 49	207+59	210+00	1.00	25.0	---	US HWY 49 MEDIAN PAVING (DOES NOT INCLUDE C&G)								
PR-5	US HWY 49	205+62	208+08	16.00	272.0	---	US HWY 49 EXIT RAMP								
PR-5	WEST FRONTAGE	22+77-WF	30+13-WF	11.50	806.0	---	WEST FRONTAGE RD.								
PR-5	WEST FRONTAGE	19+96-WF	22+77-WF	23.50	738.0	---	WEST FRONTAGE RD.								
PR-6	US HWY 49	209+09	209+34	2.00	4.0	---	US HWY 49 NORTHBOUND RT SHOULDER								
PR-6	US HWY 49	209+54	210+48	24.00	182.0	---	US HWY 49 & MAMIE ST. INTERSECTION								
PR-6	US HWY 49	210+40	214+95	1.00	60.0	---	US HWY 49 MEDIAN PAVING (DOES NOT INCLUDE C&G)								
PR-6	WEST FRONTAGE	30+93-WF	39+00-WF	25.00	2,217.0	---	WEST FRONTAGE RD.								

				BY
				REVISION
				DATE
ESTIMATED QUANTITIES				
PAVEMENT REMOVAL				
ENGINEER: THE WALKER ASSOCIATES, PLLC				WORKING NUMBER EQ-2
FILENAME: D:\Civil 3D - 178-11\dwg\178-11 Schedule.dwg - Pavement Remova				SHEET NUMBER 5.1
CHECKED BY DBG DATE Jul 09, 2020				

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

PAVEMENT MILLING SCHEDULE (ASPHALT)						
SHEET NO.	ALIGNMENT	STATION TO STATION		AVG. WIDTH	AREA	DESC.
PR-1A-ER	ER ENTRANCE BLVD	10+90	16+35	---	1,125.0	ER ENTRANCE BLVD
PR-2	FGH MAIN ENTRANCE	17+90	20+48	---	370.0	NORTH SIDE OF NEW ENTRANCE
PR-2	FGH MAIN ENTRANCE	17+90	29+67	---	409.0	SOUTH SIDE OF NEW ENTRANCE
PR-4	US HWY 49	199+92	206+92	8.00	624.0	RT SHOULDER OF SOUTHBOUND LANE
PR-7	US HWY 49	217+43	218+41	---	102.0	RT SHOULDER OF SOUTHBOUND LANE
PR-7	US HWY 49	218+38	221+90	8.00	316.0	RT SHOULDER OF SOUTHBOUND LANE
AS ENG.					200.0	AS DIRECTED BY ENGINEER
				TOTALS	3,146.0	
					S.Y.	
NOTE: AVG WIDTHS ARE FOR REFERENCE ONLY. AREAS SHOWN ARE MEASURED FROM FIELD COLLECTED SURVEY DATA.						

				BY	ESTIMATED QUANTITIES MILLING ASPHALT PAVEMENT	
				REVISION		
					ENGINEER: THE WALKER ASSOCIATES, PLLC	WORKING NUMBER EQ-3
				DATE	FILENAME: D:\Civil 3D - 178-11\dwg\178-11 Schedule.dwg - Milling	SHEET NUMBER 5.2
					CHECKED BY <u>DBG</u> DATE <u>Jul 09, 2020</u>	

																												COUNTY	STATE	PROJECT NUMBER			
																												FORREST	MISS.	DECD - 0018(35)BO			
DRAINAGE SCHEDULE																																	
SHEET	STATION	TYPE	CONC. PIPE, CLASS III			4" PVC SDR 26	6" PVC SDR 26	CPVC			CONC. F.E.S. REQ'D			SIZE			4" FRENCH DRAIN SDR 26	10" PVC DRAIN BASIN W/ GRATE	18" PVC DRAIN BASIN W/ GRATE	12" TRENCH DRAIN W/GRATE	OPENINGS	DRAWINGS REQ'D	CL. "B" CONC.	REINF. STEEL	GRATING	CASTING	STRUCTURE EXCAVATION	BORROW EXCAV. (CL. 9-8)	FLOWABLE FILL	CRUSHED STONE (SIZE 610)	REMARKS		
			18"	24"	18"X 28.5"			10"	18"	24"	18"	24"	18"X 28.5"	L	W	H																	
	HWY 49 SOUTH LANE																																
PP-4	200+43	JB-2 TRAFFIC LOAD												2.88	2.88	3.00					1@18"	JB-2	1.140	100.0			5.00				EX. C.I. TO BE CONVERTED TO JUNCTION BOX		
PP-4	201+10	SS-2, W/ EXT.	61											5.00	2.50	5.00					2@18"	SS-2	3.357	328.9		79.0	5.00	21.00			SS-2 C.I. REQ'D		
PP-4	---	FRENCH DRAIN															151.00														FRENCH DRAIN		
PP-5	---	FRENCH DRAIN				18											1300.00														FRENCH DRAIN		
PP-6	---	FRENCH DRAIN															262.00														FRENCH DRAIN		
PP-6	210+36	ABANDON EX. INLET																									4.50				ABANDON EX. INLET, FILL WITH FLOWABLE FILL		
PP-7	215+03	ABANDON EX. INLET																									6.50				ABANDON EX. INLET, FILL WITH FLOWABLE FILL		
PP-7	217+21	SS-3												4.17	3.88	5.00					2@24"	SS-3,IG-2	1.222	113.5	200.0	244.0	5.00				SS-3 INLET REQ'D IN DITCH RT.		
	ARLINGTON																																
PP-10	38+17-WF	JB-2 TRAFFIC LOAD												2.88	2.88	3.00					2@24"	JB-2	1.140	100.0			5.00				CONVERT EX. INLET TO JUNCTION BOX		
PP-10	12+33	BRANCH CONNECTION																			PC-1, BC-1	0.500									TIE 24" DRAIN INTO EX. 88"X54" ARCH PIPE		
PP-10	12+75	SS-2, W/ EXT.	40											5.00	2.50	5.00					2@24"	SS-2	3.357	328.9		79.0	5.00	14.00			SS-2 INLET REQ'D		
PP-10	13+14	SS-2, W/ EXT.		40										5.00	2.50	5.00					2@24"	SS-2	3.357	328.9		79.0	5.00				SS-2 REQ'D		
PP-10	13+52	SS-3	57											3.67	3.38	5.00					PC-1, SS-3	1.222	113.5	200.0	244.0	5.00	20.00				SS-3 W/ 18" RCP REQ'D ALONG EAST SIDE OF 27TH AVE		
PP-10	13+59	SS-2, W/ EXT.	35											5.00	2.50	5.00					2@18",1@24"	SS-2	3.357	328.9		79.0	5.00	12.00	25.00		CROSSDRAIN LT. 27TH AVE		
PP-10	13+81	SS-2, W/ EXT.	33											5.00	2.50	5.00					1@18"	SS-2	3.357	328.9		79.0	5.00				SS-2 C.I. REQ'D		
PP-10	14+91	SS-2, W/ EXT.												5.00	2.50	5.50					3@18",1@15"	SS-2	3.514	341.1		79.0	5.00				DEMO EX. INLET AND RECAST TO MATCH NEW GRADES		
	CAMP ST. AT WEST FRONTAGE ROAD																																
PP-11	16+63	SS-2, W/ EXT.	112									1		5.00	2.50	5.00					2@18"	SS-2,PI-1	3.357	328.9		79.0	5.00		100.00		C. I., CROSSDRAIN AT INTERSECTION		
PP-11	16+63	SS-2, W/ EXT.										1		5.00	2.50	5.00					2@18"	SS-2,PI-1	3.357	328.9		79.0	5.00				C. I.		
PP-11	18+34	SS-2, W/ EXT.	32											5.00	2.50	4.00					2@18"	SS-2,PI-1	3.042	311.9		79.0	5.00	11.00			SS-2 INLET REQ'D		
PP-11	18+51	SS-2, W/ EXT.	24											5.00	2.50	4.50					1@18"	SS-2,PI-1	3.200	324.2		79.0	5.00		20.00		SS-2 RT. FROM SS-2		
	EAST FRONTAGE ROAD AT CAMP ST.																																
PP-12	35+59	6" PVC					36																									CONNECT EX. FRENCH DRAIN TO SS-2 @ STA. 35+81	
PP-12	35+81	SS-2, W/ EXT.		48										5.00	3.50	4.00					1@24"	SS-2,PI-1	3.376	324.4		79.0	5.00		35.00		SS-2 INLET AND E.F. CROSSDRAIN		
PP-12	36+17	JB-2 TRAFFIC LOAD												4.25	5.50	3.50					3@24"	JB-1	1.500	130.0			6.00		0.00		TY 2 CURB INLET CAMP STREET INT. TO EX DRAINAGE		
PP-12	36+21	TYPE 2 CURB INLET		6										3.83	3.50	4.50					3@24"	GI-1	1.241	87.0	200.0	244.0	5.00				INTERSECTION CAMP STREET ISLAND		
PP-12	36+32	TYPE 2 CURB INLET		4										3.83	3.50	4.50					1@24"	GI-1,PI-1	1.241	87.0	200.0	244.0	5.00		5.00		INTERSECTION CAMP STREET ISLAND		
PP-12	36+49	JB-2 TRAFFIC LOAD												4.50	5.50	3.50					3@24"	JB-2,PI-1	1.500	130.0		5.00					EX. INLET IN DITCH CONVERTED TO JB		
PP-12	36+79	SS-2, W/ EXT.		51										5.00	2.50	5.00					1@18",1@24"	SS-2,PI-1	3.357	328.9		79.0	5.00		35.00		SS-2 INLET AND E.F. CROSSDRAIN		
																								BY	ESTIMATED QUANTITIES								
																													REVISION	STORM DRAIN			
CLASS "C" BEDDING TO BE UTILIZED FOR ALL PIPE INSTALLATION, PAYMENT SHALL BE ABSORBED INTO UNIT PRICE OF PIPE.																								FILENAME: D:\Civil 3D - 178-11\dwg\178-11 Schedule.dwg - STORM DRAIN 2				SHEET NUMBER 5.4					
																												CHECKED BY <u>DBG</u> DATE <u>Jul 09, 2020</u>					

																											COUNTY	STATE	PROJECT NUMBER		
																											FORREST	MISS.	DECD - 0018(35)BO		
DRAINAGE SCHEDULE																															
SHEET	STATION	TYPE	CONC. PIPE, CLASS III			4" PVC SDR 26	6" PVC SDR 26	CPVC			CONC. F.E.S. REQ'D			SIZE			4" FRENCH DRAIN SDR 26	10" PVC DRAIN BASIN W/ GRATE	18" PVC DRAIN BASIN W/ GRATE	12" TRENCH DRAIN W/GRATE	OPENINGS	DRAWINGS REQ'D	CL. "B" CONC.	REINF. STEEL	GRATING	CASTING	STRUCTURE EXCAVATION	BORROW EXCAV. (CL. 9-8)	FLOWABLE FILL	CRUSHED STONE (SIZE 610)	REMARKS
			18"	24"	18"X 28.5"			10"	18"	24"	18"	24"	18"X 28.5"	L	W	H															
	ADELINE ST.																														
PP-13	10+40	10" PVC INLET						58									1			1@18"	MD-5			12.0		3.00	20.00		10.00	10" PVC INLET W/ DOMED GRATE	
PP-13	11+39	SS-2, W/ EXT.			148									5.00	4.00	4.00				1@24"	SS-2	3.542	328.7		79.0	5.00	20.00		50.00	SS-2 CURB INLET AND SIDEDRAIN LT.	
PP-13	11+39	SS-2, W/ EXT.			40									5.00	4.00	4.00				1@28"X18", 1@18"	SS-2	3.542	328.7		79.0	5.00		20.00	SS-2 CURB INLET AND CROSSDRAIN		
PP-13	11+65	18" PVC INLET							20									1		1@18"	MD-5			48.0		3.00	10.00			18" PVC INLET W/ DOMED GRATE	
PP-13	12+28	18" PVC INLET							53									1		1@18"	MD-5			48.0		3.00	37.66			SIDEDRAIN RT.	
PP-13	12+63	TRENCH DRAIN							12											1@18"	MD-7			1125.0	450.0	10.00	5.00			TRENCH DRAIN (DRAIN PAID BY L.F. AND GRATE BY LBS)	
PP-13	12+80	18" PVC INLET							16									1		3@18"	MD-5					5.00	7.00			18" PVC INLET W/ SOLID GRATE (INCREASE SIZE IF NECESSARY FOR INLET PIPES)	
PP-13	12+92	18" PVC INLET							30									1		2@18"	JB-2					5.00	10.00			18" PVC INLET W/ DOMED GRATE	
PP-13	13+12	SS-2, W/ EXT.	98											5.00	4.00	9.00				2@18",1@24"	SS-2	5.394	413.3		79.0	6.00		50.00	SS-2 INLET, 24" RCP CROSSDRAIN		
PP-13	13+12	18" RCP	16								1										FE-1, PI-1	0.063					20.00			TOE WALL REQ'D UPSTREAM	
PP-13	13+54	24" RCP		128								2									FE-1, PI-1	0.166					50.00		100.00	DITCH DRAIN, TOE WALL REQ'D UP & DOWNSTREAM	
PP-13	13+54	JB-2 TRAFFIC LOAD												3.50	3.50	3.50				2@18"	JB-2	1.500	130.0			5.00				JUNCTION BOX TO CONNECT MEDIAN DRAIN	
	WEST FRONTAGE @ ADELINE																														
PP-14	21+32	18" PVC INLET							11									1		1@18"	MD-5			48.0		5.00	10.00			18" PVC INLET W/ DOMED GRATE	
PP-14	21+34	JB-1		39										3.50	3.50	3.50				1@18", 2@24"	JB-1,PI-1	1.500	130.0			5.00	20.00			JUNCTION BOX AND SIDEDRAIN	
PP-14	21+78	JB-1 EXTENSION												4.00	4.00	4.00				4@6", 2@24"	PC-1, JB-1	2.000	150.0			5.00				JUNCTION BOX TO REPLACE EX. JUNCTION BOX	
	TOTALS		839.0	316.0	188.0	93.0	36.0	58.0	142.0	0.0	3.0	2.0	0.0	214.7	151.5	221.2	3265.0	1.0	5.0	45.0			120.4	11182.0	2881.0	4456.0	252.0	379.7	11.0	450.0	
	UNITS		feet	feet	feet	feet	feet	feet	feet	feet	each	each	each				feet	each	each	feet			cu. Yds.	lbs.	lbs.	lbs.	cu. Yds.	cu. Yds.	cu. Yds.	TONS	

CLASS "C" BEDDING TO BE UTILIZED FOR ALL PIPE INSTALLATION, PAYMENT SHALL BE ABSORBED INTO UNIT PRICE OF PIPE.

				BY
			REVISION	
				ESTIMATED QUANTITIES
				STORM DRAIN
ENGINEER: THE WALKER ASSOCIATES, PLLC				WORKING NUMBER EQ-6
FILENAME: D:\Civil 3D - 178-11\dwg\178-11 Schedule.dwg - STORM DRAIN 3				SHEET NUMBER 5.5
CHECKED BY <u>DBG</u> DATE <u>Jul 09, 2020</u>				

														COUNTY	STATE	PROJECT NUMBER
														FORREST	MISS.	DECD - 0018(35)BO
ALIGNMENT	STATION TO STATION		LENGTH	WIDTH	(9.5mm) 1.5" (HT)	(12.5mm) 1.5" (HT)	(19mm) 2.25" (HT)	(19mm) 2.5" (HT)	(19mm) 3.0" (HT)	TRENCH WIDENING (9.5 mm) (HT)	TRENCH WIDENING (19 mm) (HT)	CRUSHED STONE 6"	CRUSHED STONE 8"	DESC.		
US HWY 49	192+84	194+00	116.0	7.1	7.6	7.6			30.3				56.3	US HWY 49 (MEDIAN)		
US HWY 49	194+00	200+93	693.0	13.8	87.5	87.5			349.8				565.3	US HWY 49 (MEDIAN)		
US HWY 49	199+92	206+00	608.0	12.0	66.9									US HWY 49 (TURN LANE WEST SIDE OF SB LANE) (OVERLAY)		
US HWY 49	199+92	206+50	658.0	Varies		20.2			102.7				168.7	US HWY 49 (TURN LANE WEST SIDE OF SB LANE NEW CONSTRUCTION 2200 W/ UNDER CURB 3400)		
US HWY 49	202+60	210+00	740.0	2.8					38.4	4.5	13.6		122.4	US HWY 49 (TRENCH WIDENING WEST SIDE OF NORTHBOUND LANE)		
US HWY 49	209+60	210+00	40.0	2.8					2.1	0.2	0.7		6.6	US HWY 49 (TRENCH WIDENING EAST SIDE OF SOUTHBOUND LANE)		
US HWY 49	210+34	217+14	680.0	5.5	34.3	34.3			137.1					US HWY 49 (MEDIAN REPAIR)		
US HWY 49	217+14	222+97	583.0	Varies	44.1	35.8			143.4				194.1	US HWY 49 (WEST SIDE NORTHBOUND LANE)		
US HWY 49	215+66	216+77	111.0	2.8					5.8	0.7	2.0		15.6	US HWY 49 (TRENCH WIDENING EAST SIDE SOUTHBOUND LANE)		
US HWY 49	218+39	221+91	352.0	12.0	38.7	10.3			58.6				102.7	US HWY 49 (TURN LANE WEST SIDE OF SOUTHBOUND LANE)		
US HWY 49	222+06	223+95	189.0	0.7						1.2	3.5		6.3	US HWY 49 (TRENCH WIDENING EAST SIDE OF SOUTHBOUND LANE)		
US HWY 49	222+06	223+95	189.0	0.7						1.2	3.5		6.3	US HWY 49 (TRENCH WIDENING WEST SIDE OF NORTHBOUND LANE)		
TOTAL HIGH TYPE ASPHALT					279.0	195.7	0.0	0.0	868.1	7.8	23.3	0.0	1,244.3			
					TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS			

				BY	ESTIMATED QUANTITIES ASPHALT PAVEMENT	
				REVISION		
				DATE	ENGINEER: THE WALKER ASSOCIATES, PLLC	WORKING NUMBER EQ-11
					FILENAME: D:\Civil 3D - 178-11\dwg\178-11 Schedule.dwg - ASPHALT PAVING 2	SHEET NUMBER 5.10
					CHECKED BY <u>DBG</u> DATE <u>Jul 09, 2020</u>	

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

STANDARD ROADSIDE SIGNS		
SHEET	SIGN NUMBER	QTY.
PSP-1	R1-2	2
PSP-1	R5-1	2
PSP-2	W11-2	7
PSP-2	W3-3	1
PSP-2	W16-9P	3
PSP-2	R1-1	2
PSP-2	M3-1	2
PSP-2	M1-4	2
PSP-2	M5-4L	1
PSP-2	M5-4R	1
PSP-2	D9-13cP	2
PSP-2	M6-1	2
PSP-2	W16-7p	4
PSP-3	TYPE III BARRICADE	1
PSP-3	W3-3	1
PSP-3	W14-1	1
PSP-3	R6-1L	1
PSP-3	R6-1R	1
PSP-3	R11-2	1
PSP-3	M3-1	2
PSP-3	M1-4	2
PSP-3	M5-4L	1
PSP-3	M5-4R	1
PSP-3	D9-18C	1
PSP-4	SPECIAL SIGN	1
PSP-4	R1-1	1
PSP-4	R6-1L	1
PSP-4	R5-1a	2
PSP-4	R3-5L	1
PSP-4	OM-3L	1

STANDARD ROADSIDE SIGNS		
SHEET	SIGN NUMBER	QTY.
PSP-5	W3-1a	1
PSP-5	W9-2L	0
PSP-5	W9-2R	1
PSP-5	R1-1	4
PSP-5	R3-1	1
PSP-5	R3-5L	2
PSP-5	R5-1	2
PSP-5	R5-1a	4
PSP-5	R6-1L	4
PSP-5	R3-5R	1
PSP-5	M3-1	1
PSP-5	M1-4	1
PSP-5	M5-4L	1
PSP-6	W3-1a	2
PSP-6	R1-1	2
PSP-6	R1-2	1
PSP-6	R3-5R	1
PSP-6	R5-1	1
PSP-6	D9-13cP	2
PSP-6	M6-1	2
PSP-6	R6-1L	1
PSP-6	R6-1R	1
PSP-6	R4-7	1
PSP-6	D9-18C	1
PSP-6	SPECIAL SIGN	1
PSP-7	R9-6	1
PSP-7	W3-3	1

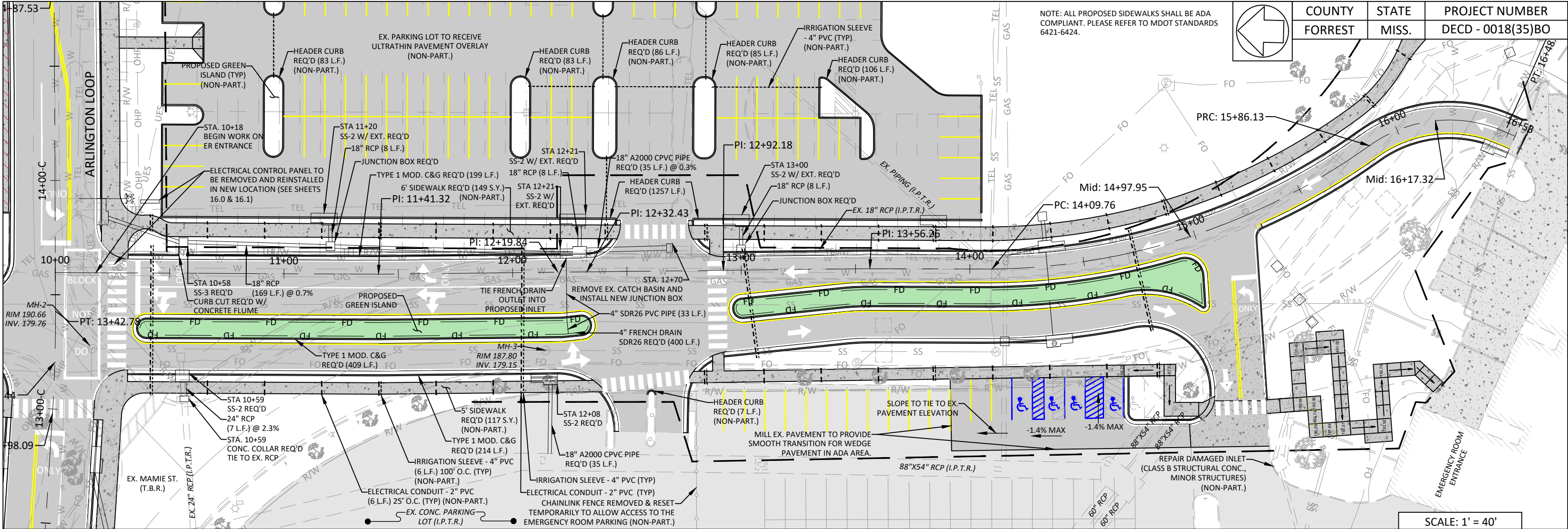
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				REVISION		
					ENGINEER: THE WALKER ASSOCIATES, PLLC	WORKING NUMBER EQ-13
				DATE	FILENAME: D:\Civil 3D - 178-11\dwg\178-11 Schedule.dwg - SIGNS	SHEET NUMBER 5.12
					CHECKED BY <u>DBG</u> DATE <u>Jul 09, 2020</u>	

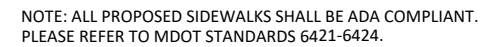
MISCELLANEOUS REMOVAL SCHEDULE													
SHEET NO.	DRAINAGE	STRUCTURES	PIPE		SIGN		MISC. ITEMS		TRAFFIC STRIPE (ALL WIDTHS)		LEGEND		REMARKS
	TYPE	NO.	TYPE		TYPE	NO.	TYPE		TYPE		TYPE		
PR-1	---	---	---	---	PARKING SIGN	1	---	---	---	---	---	---	PARKING SIGN TO BE RELOCATED
PR-1	SS-2 C.I.	1	---	---	---	---	---	---	---	---	---	---	CURB INLET TO BE REMOVED AND CONNECTION TO EX. PIPE GROUTED
PR-1-ER	---	---	---	---	---	---	SPEED HUMPS	5	---	---	---	---	SPEED HUMPS TO BE SALAVGED TO OWNER
PR-1-ER	---	---	---	---	NO SMOKING SIGN	2	---	---	---	---	---	---	RELOCATE SIGNS TO LOCATION DETERMINED BY ENGINEER
PR-1-ER	SS-2 C.I.	1	---	---	---	---	---	---	---	---	---	---	SS-2 INLET AT STA. 15+72
PR-1-ER	---	---	---	---	ADA PARKING SIGN	4	---	---	---	---	---	---	RELOCATE EX. ADA SIGNS TO LOCATION DETERMINED BY ENGINEER
PR-1-ER	SS-2 C.I.	1	---	---	---	---	---	---	---	---	---	---	CONVERT EX. SS-2 INLET AT STA. 14+14 TO JUNCTION BOX
PR-1-ER	---	---	---	---	PED. CROSSING W/ LIGHT	1	---	---	---	---	---	---	RELOCATE EX. PED. CROSSING SIGN WITH LIGHT AT STA. 15+42 TO LOCATION DETERMINED BY ENGINEER.
PR-1-ER	SS-3 INLET	1	---	---	---	---	---	---	---	---	---	---	CONVERT EX. SS-3 INLET AT STA. 15+30 RT. TO JUNCTION BOX
PR-1-ER	SS-2 C.I.	1	---	---	---	---	---	---	---	---	---	---	CONVERT EX. SS-2 INLET AT STA. 15+30 TO SS-3 INLET
PR-1-ER	---	---	---	---	EMER. PATIENT DROP OFF	1	---	---	---	---	---	---	RELOCATE EX. SIGN AT STA. 15+42 TO LOCATION DETERMINED BY ENGINEER
PR-1-ER	---	---	---	---	LIGHTED CROSSWALK SYSTEM	1	---	---	---	---	---	---	SALVAGED EX. LIGHTED CROSSWALK SYSTEM AND ALL COMPONENTS TO OWNER
PR-1-ER	---	---	---	---	DO NOT BLOCK ER ENTRANCE	1	---	---	---	---	---	---	RELOCATE EX. SIGNS (CROSSWALK AND DO NOT BLOCK) AT STA. 14+21 TO LOCATION DETERMINED BY ENGINEER
PR-1-ER	---	---	---	---	EMER. PATIENT DROP OFF	1	---	---	---	---	---	---	RELOCATE EX. SIGN AT STA. 13+90 TO LOCATION DETERMINED BY ENGINEER
PR-1-ER	SS-2 C.I.	1	---	---	---	---	---	---	---	---	---	---	EX. SS-2 INLET AT STA. 14+16 TO BE CONVERTED TO JUNCTION BOX
PR-1-ER	SS-3 INLET	1	---	---	---	---	---	---	---	---	---	---	EX. SS-3 INLET AT STA. 14+16 TO BE CONVERTED TO JUNCTION BOX
PR-1-ER	---	---	---	---	PED. CROSSING W/ LIGHT	1	---	---	---	---	---	---	RELOCATE EX. PED. CROSSING SIGN WITH LIGHT AT STA. 13+90 TO LOCATION DETERMINED BY ENGINEER.
PR-1-ER	---	---	---	---	PED. CROSSING W/ LIGHT	1	---	---	---	---	---	---	RELOCATE EX. PED. CROSSING SIGN WITH LIGHT AT STA. 13+13 TO LOCATION DETERMINED BY ENGINEER.
PR-1-ER	---	---	---	---	20 MPH	1	---	---	---	---	---	---	EX. SIGN AT STA. 13+57 TO BE RELOCATED TO LOCATION DETERMINED BY ENGINEER
PR-1-ER	---	---	---	---	STAFF ENTRANCE ROUTE	1	---	---	---	---	---	---	EX. STAFF ENTRANCE ROUTE SIGN AT STA. 12+96 TO BE RELOCATED TO LOCATION DETERMINED BY ENGINEER
PR-1-ER	SS-3 INLET	1	---	---	---	---	---	---	---	---	---	---	EX. SS-3 INLET AT STA. 12+67 TO BE CONVERTED TO JUNCTION BOX
PR-1-ER	---	---	---	---	PARKING LOT SIGN	1	---	---	---	---	---	---	EX. NORTHSIDE PARKING SIGN AT STA. 12+33 TO BE RELOCATED TO LOCATION DETERMINED BY ENGINEER
PR-1-ER	---	---	---	---	SPEED HUMP	1	---	---	---	---	---	---	EX. SPEED HUMP SIGN AT STA. 11+32 RT. SALVAGE TO OWNER
PR-1-ER	---	---	---	---	20 MPH		---	---	---	---	---	---	EX. 20 MPH SIGN AT STA. 11+00 RT. RELOCATE TO LOCATION DETERMINED BY ENGINEER
PR-1-ER	SS-3 INLET	1	---	---	---	---	---	---	---	---	---	---	EX. SS-3 INLET AT STA. 10+55 TO BE CONVERTED TO JUNCTION BOX
PR-1-ER	---	---	15" RCP	16	---	---	---	---	---	---	---	---	EX. PIPE AT STA. 10+55 TO BE REMOVED
PR-1-ER	SS-2 C.I.	1	---	---	---	---	---	---	---	---	---	---	EX. SS-2 INLET AT STA. 10+56 TO BE CONVERTED TO JUNCTION BOX
PR-1-ER	SS-2 C.I.	1	---	---	---	---	---	---	---	---	---	---	EX. SS-2 INLET AT STA. 10+62 TO BE CONVERTED TO SS-3 INLET
PR-2	---	---	---	---	NO SMOKING	1	---	---	---	---	---	---	EX. SIGN IN GREENSPACE BETWEEN NEW ER DRIVE AND PROPOSED FRONT ACCESS TO BE RELOCATED TO LOCATION DETERMINED BY ENGINEER
PR-2	CATCH BASIN	1	---	---	---	---	---	---	---	---	---	---	EX. SS-3 INLET AT STA. 17+54 TO BE CONVERTED TO JUNCTION BOX
PR-2	---	---	---	---	SPEED HUMP	1	---	---	---	---	---	---	SPEED HUMP SIGN AT STA. 19+77 TO BE SALAVGED TO OWNER
PR-2	---	---	---	---	---	---	SPEED HUMP	1	---	---	---	---	SPEED HUMP AT STA. 18+13 TO BE SALAVGED TO OWNER
PR-2	SS-2 C.I.	1	---	---	---	---	---	---	---	---	---	---	EX. CURB INLET AT STA. 17+81 TO BE RECONSTRUCED
PR-2	---	---	---	---	PED. CROSSING W/ LIGHT	1	---	---	---	---	---	---	RELOCATE EX. PED. CROSSING SIGN WITH LIGHT AT STA. 17+73 TO LOCATION DETERMINED BY ENGINEER.
PR-2	---	---	---	---	PED. CROSSING W/ LIGHT	1	---	---	---	---	---	---	RELOCATE EX. PED. CROSSING SIGN WITH LIGHT IN GREENSPACE BETWEEN NEW ER DRIVE AND PROPOSED FRONT ACCESS TO BE RELOCATED TO LOCATION DETERMINED BY ENGINEER

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

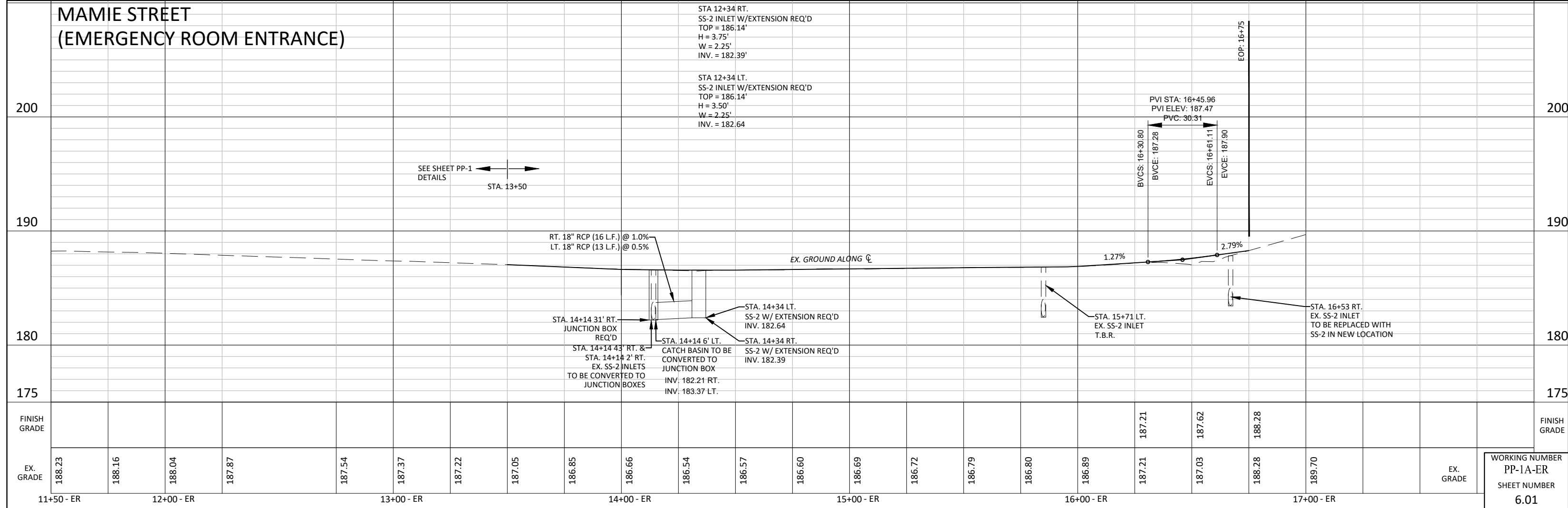
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			REVISION		ENGINEER: THE WALKER ASSOCIATES, PLLC	WORKING NUMBER EQ-14
			DATE		FILENAME: <u>D:\Civil 3D - 178-11\dwg\178-11 Schedule.dwg - MISC REMOVAL 1</u> CHECKED BY <u>DBG</u> DATE <u>Jul 09, 2020</u>	SHEET NUMBER 5.13

DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
FILE NAME: D:\Civil 3D - 178-11.dwg, 178-11 Plan Profiles.dwg
PP-1
Jul 09, 2020 - 10:07pm
COUNTY: FORREST
DESIGNED BY: DBG
DRAWN BY: BLL
CHECKED BY: DBG



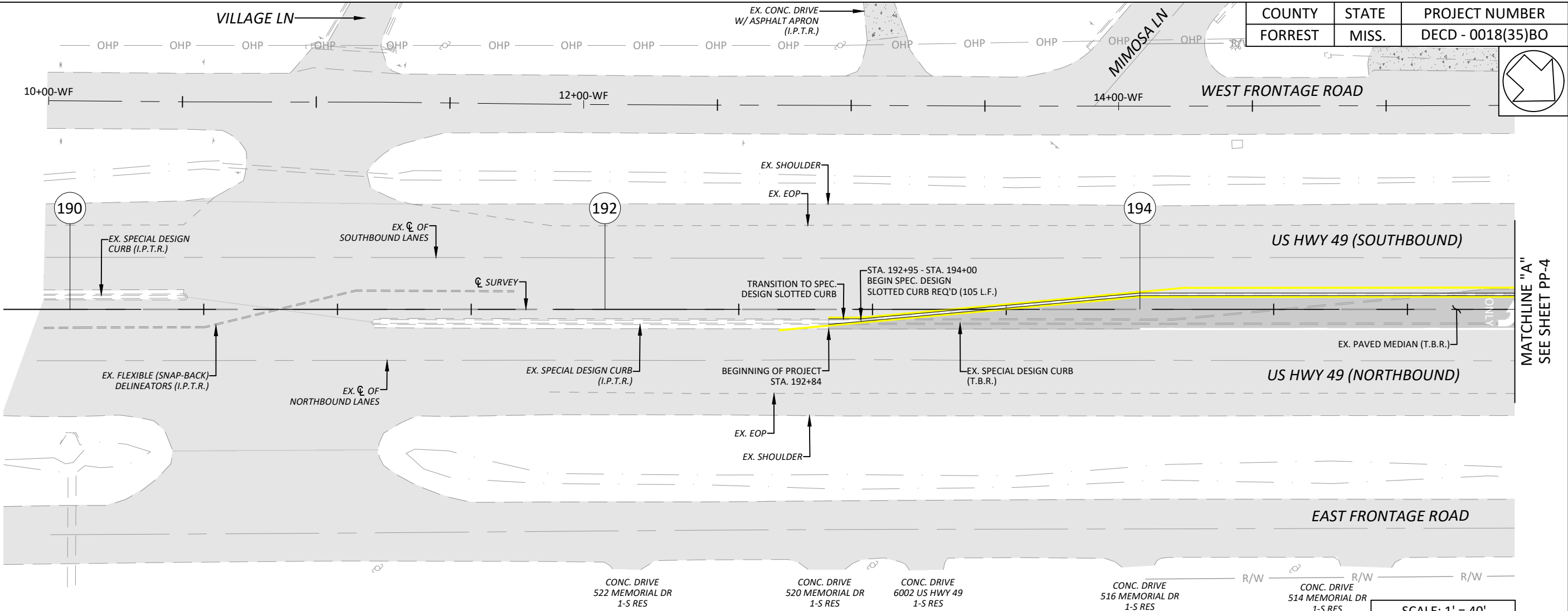


MAMIE STREET
(EMERGENCY ROOM ENTRANCE)



DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
FILE NAME: D:\Civi 3D - 178-11\dwg\178-11 Plan Profiles.dwg
PP-3
Jul 09, 2020 - 10:08pm
COUNTY: FORREST
DESIGNED BY: DBG
DRAWN BY: BLL
CHECKED BY: DBG

REF: SURVEY ϕ STA. 189+92
EQUALS STA. 10+00-WF & 10+00-EF



MATCHLINE "A"
SEE SHEET PP-4

US HWY 49
(STA. 189+92 TO STA. 195+40)

NO VERTICAL ALIGNMENT MODIFICATIONS TO HWY 49

EX. GROUND ALONG SURVEY ϕ

SCALE: 1' = 40'

200

200

190

190

180

180

170

170

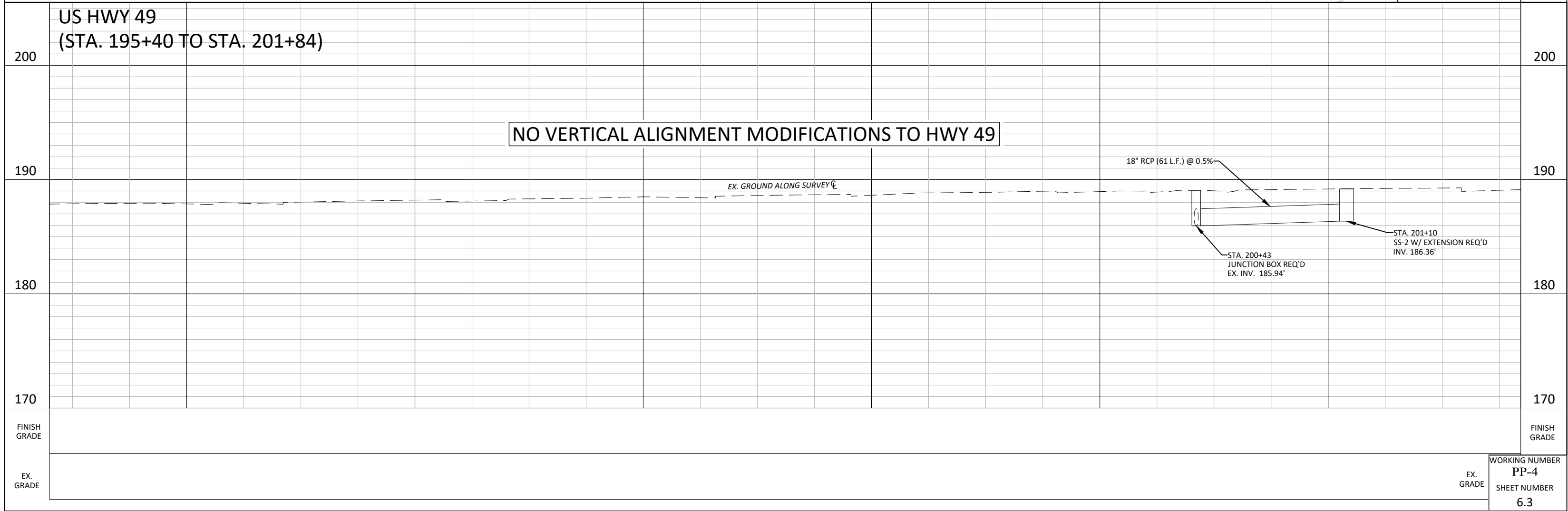
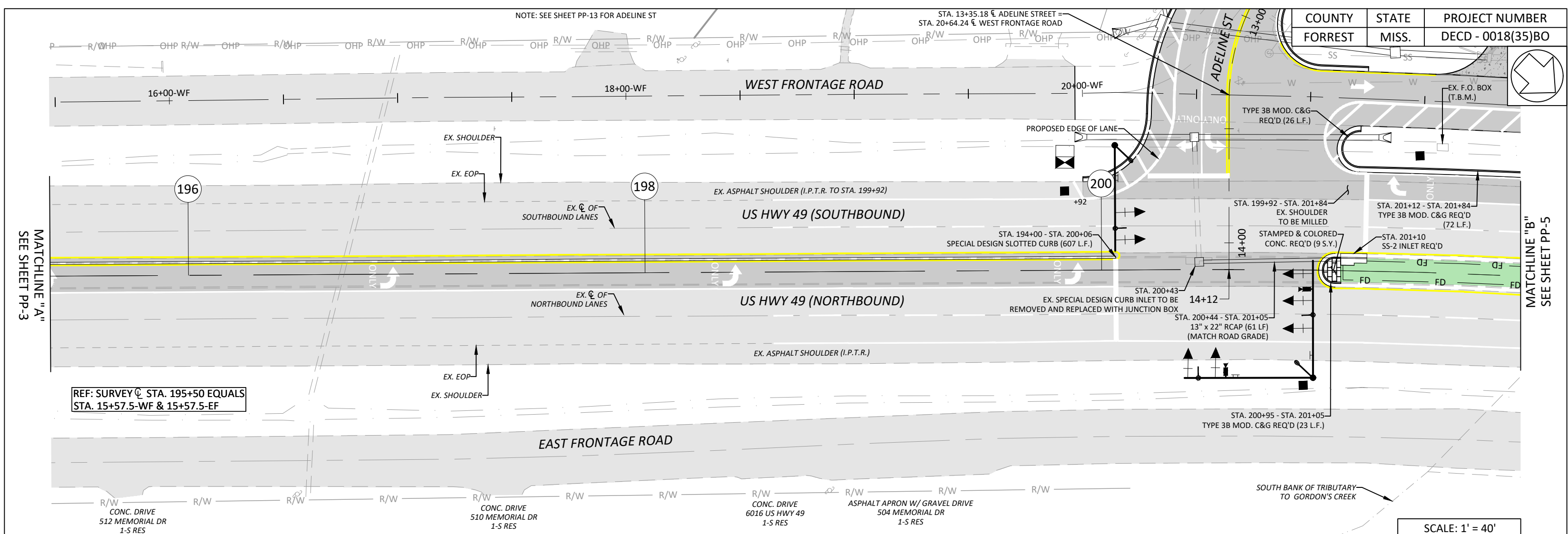
FINISH
GRADE

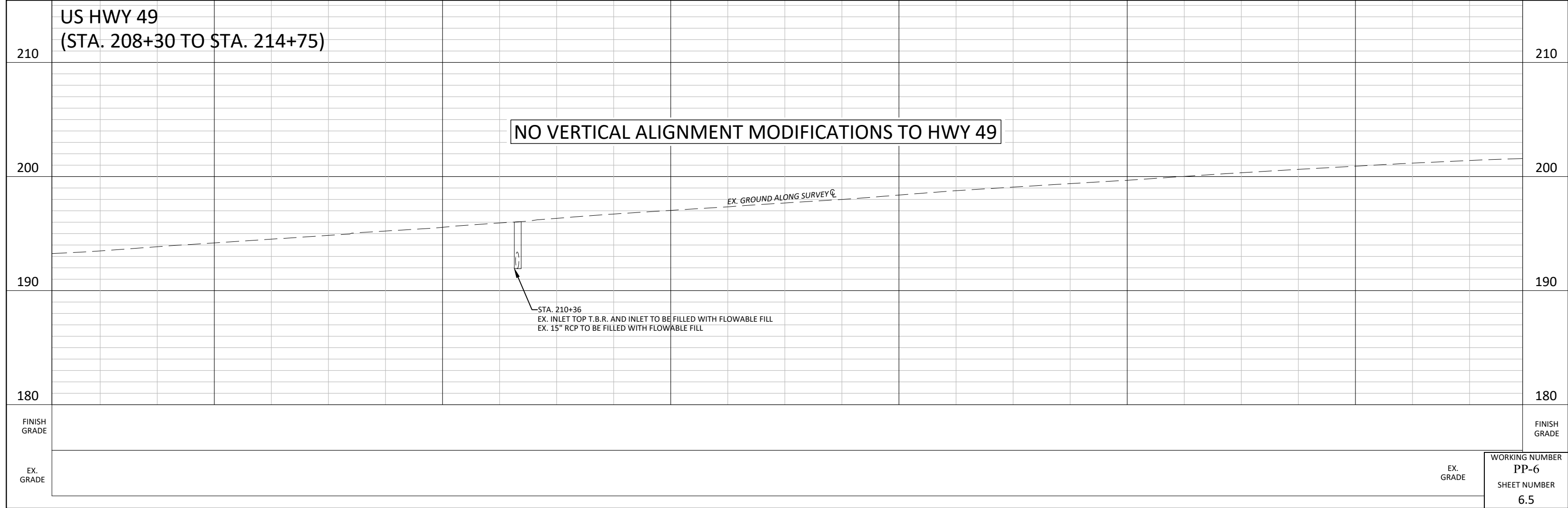
FINISH
GRADE

EX.
GRADE

EX.
GRADE

WORKING NUMBER
PP-3
SHEET NUMBER
6.2





CHECKED BY: DBG

DRAWN BY: BLL

DESIGNED BY: DBG

COUNTY: FORREST

Jul 09, 2020 - 10:09pm

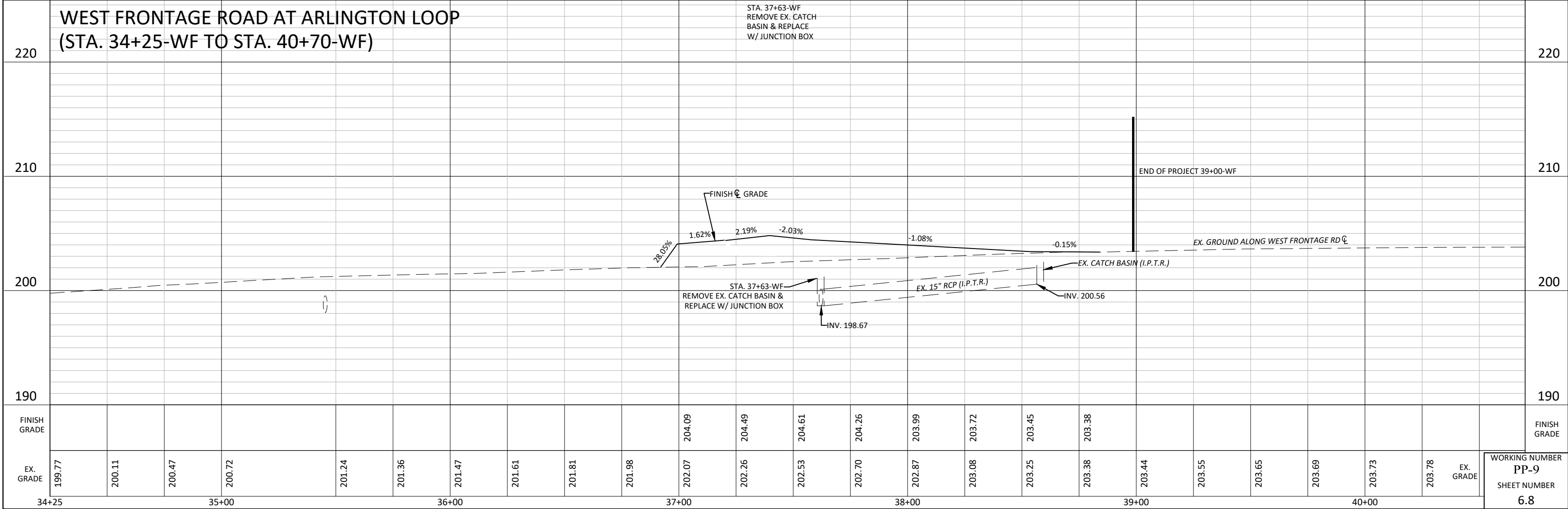
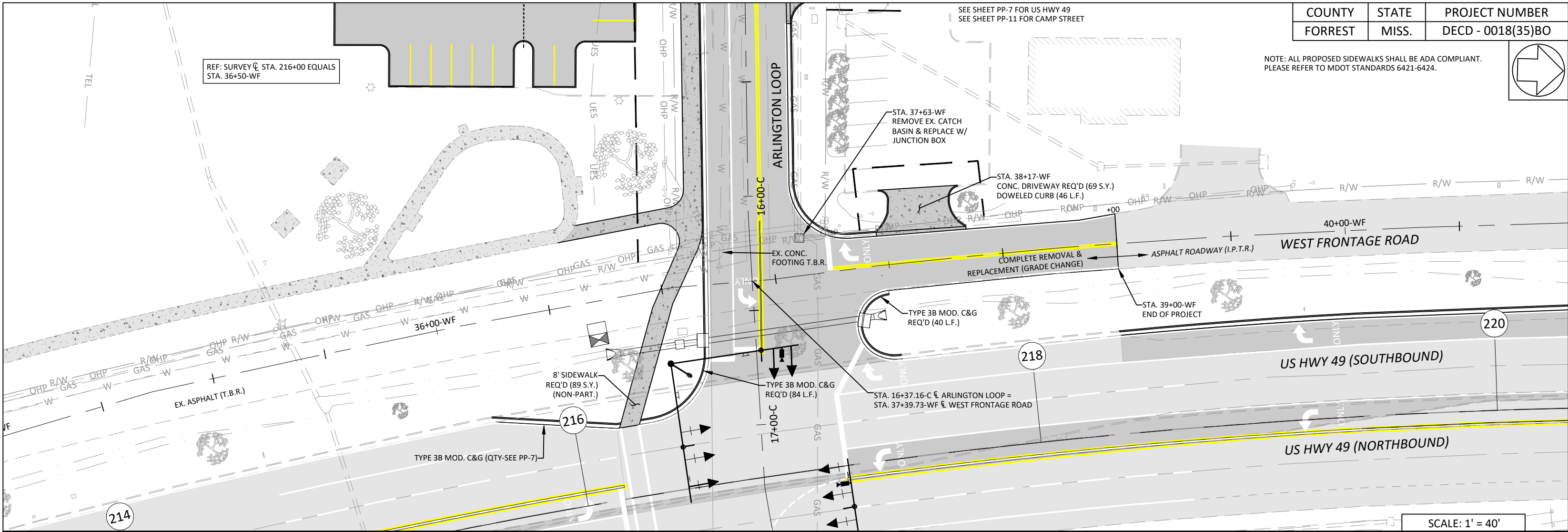
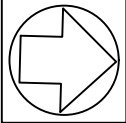
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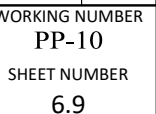
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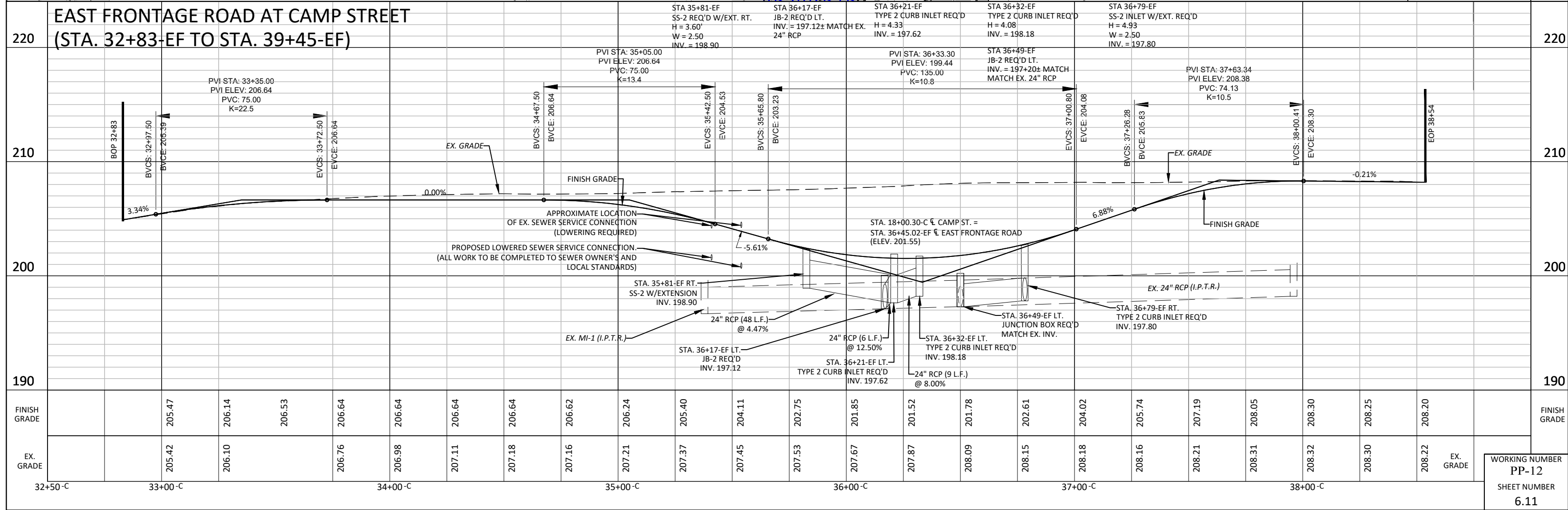
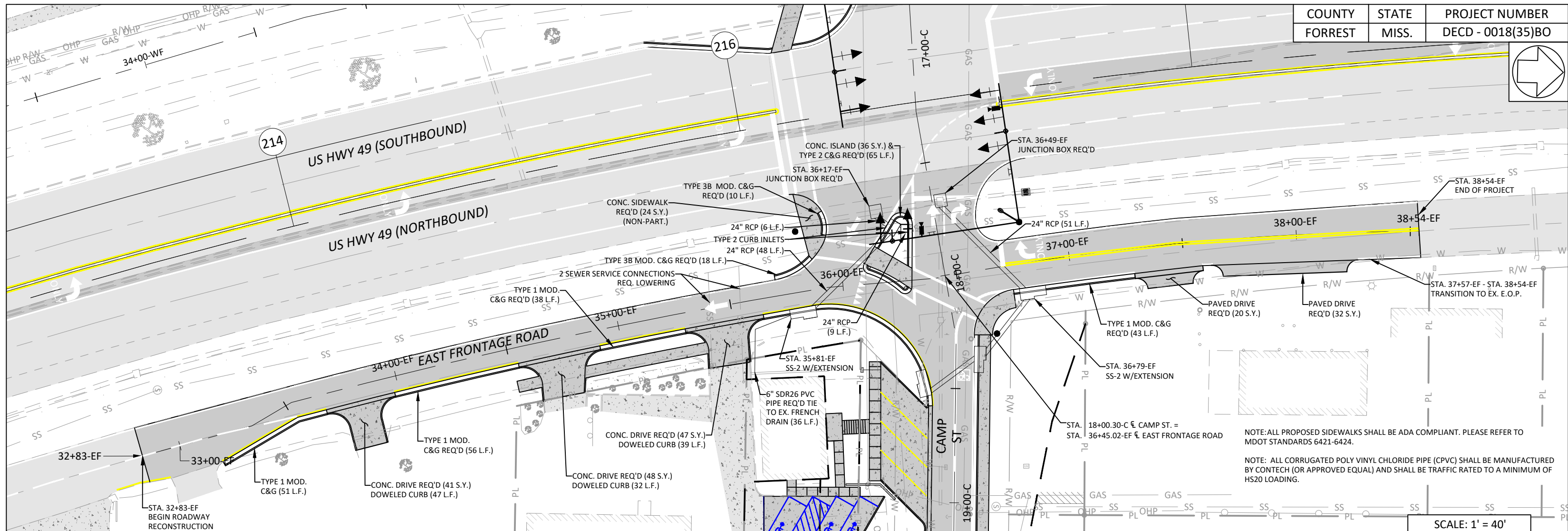
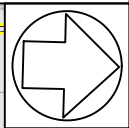
DESIGN TEAM: THE WALKER ASSOCIATES, PLLC

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

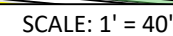
NOTE: ALL PROPOSED SIDEWALKS SHALL BE ADA COMPLIANT.
PLEASE REFER TO MDOT STANDARDS 6421-6424.







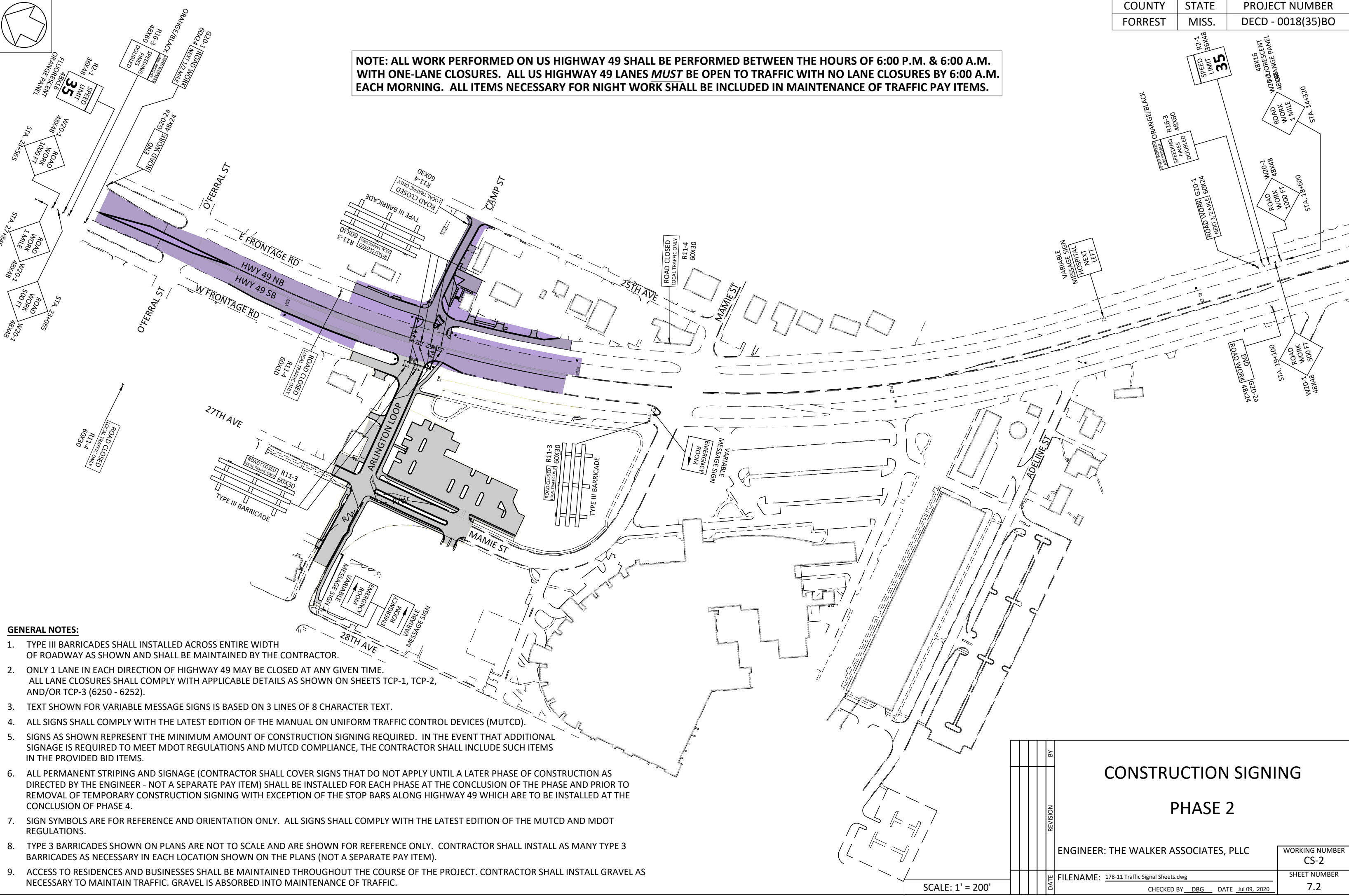
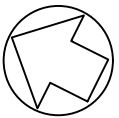
NOTE: SEE SHEET MD-4 FOR UTILITY MODIFICATION DETAILS



WEST FRONTAGE ROAD AT ADELINE STREET (STA. 199+89-WF TO STA. 202+69-WF)																										
200																										
190																										
180																										
170																										
FINISH GRADE								183.90	184.04	188.79	189.10	189.18	188.49	187.80	187.10	186.50	186.17	186.13	186.37	186.81					FINISH GRADE	
EX. GRADE	184.02	184.05	184.11	183.81		183.79	183.81	183.83	183.90	184.03	184.19	184.27	184.30	184.13	184.22	184.32	184.58	184.97	185.36	186.08	186.80	187.23	187.63	187.74	187.80	EX. GRADE
	17+75-WF	18+00-WF				19+00-WF			20+00-WF					21+00-WF			22+00-WF				23+00-WF				24+00-WF	

WORKING NUMBER
PP-14
SHEET NUMBER
6.13

DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
FILE NAME: D:\Civil\3D - 178-11\dwg\178-11 Traffic Signal Sheets.dwg
CS-2
Jul 09, 2020 - 10:12pm
COUNTY: FORREST
DESIGNED BY: DBG
DRAWN BY: BILL
CHECKED BY: DBG



GENERAL NOTES:

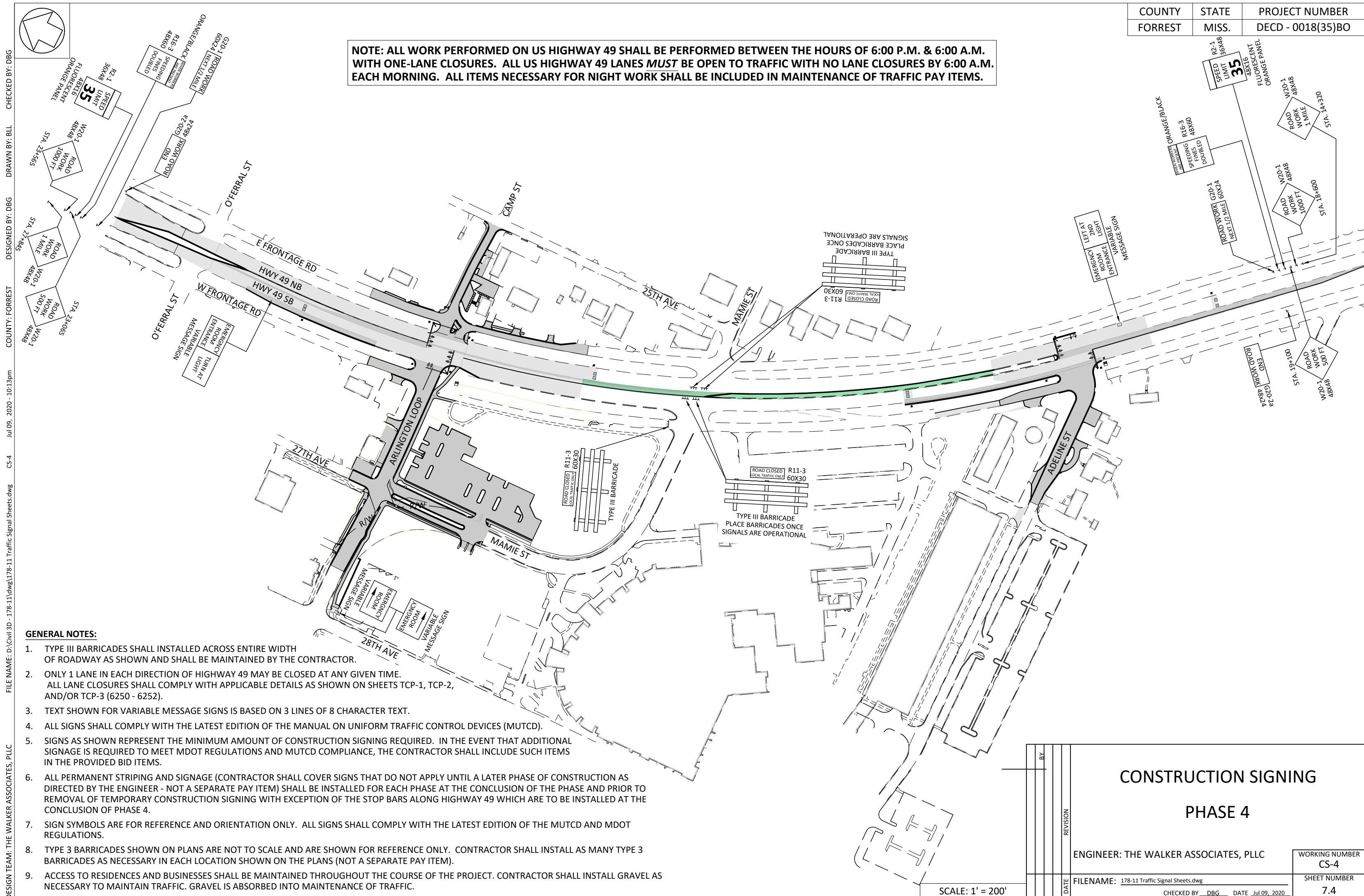
1. TYPE III BARRICADES SHALL INSTALLED ACROSS ENTIRE WIDTH OF ROADWAY AS SHOWN AND SHALL BE MAINTAINED BY THE CONTRACTOR.
2. ONLY 1 LANE IN EACH DIRECTION OF HIGHWAY 49 MAY BE CLOSED AT ANY GIVEN TIME. ALL LANE CLOSURES SHALL COMPLY WITH APPLICABLE DETAILS AS SHOWN ON SHEETS TCP-1, TCP-2, AND/OR TCP-3 (6250 - 6252).
3. TEXT SHOWN FOR VARIABLE MESSAGE SIGNS IS BASED ON 3 LINES OF 8 CHARACTER TEXT.
4. ALL SIGNS SHALL COMPLY WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
5. SIGNS AS SHOWN REPRESENT THE MINIMUM AMOUNT OF CONSTRUCTION SIGNING REQUIRED. IN THE EVENT THAT ADDITIONAL SIGNAGE IS REQUIRED TO MEET MDOT REGULATIONS AND MUTCD COMPLIANCE, THE CONTRACTOR SHALL INCLUDE SUCH ITEMS IN THE PROVIDED BID ITEMS.
6. ALL PERMANENT STRIPING AND SIGNAGE (CONTRACTOR SHALL COVER SIGNS THAT DO NOT APPLY UNTIL A LATER PHASE OF CONSTRUCTION AS DIRECTED BY THE ENGINEER - NOT A SEPARATE PAY ITEM) SHALL BE INSTALLED FOR EACH PHASE AT THE CONCLUSION OF THE PHASE AND PRIOR TO REMOVAL OF TEMPORARY CONSTRUCTION SIGNING WITH EXCEPTION OF THE STOP BARS ALONG HIGHWAY 49 WHICH ARE TO BE INSTALLED AT THE CONCLUSION OF PHASE 4.
7. SIGN SYMBOLS ARE FOR REFERENCE AND ORIENTATION ONLY. ALL SIGNS SHALL COMPLY WITH THE LATEST EDITION OF THE MUTCD AND MDOT REGULATIONS.
8. TYPE 3 BARRICADES SHOWN ON PLANS ARE NOT TO SCALE AND ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL INSTALL AS MANY TYPE 3 BARRICADES AS NECESSARY IN EACH LOCATION SHOWN ON THE PLANS (NOT A SEPARATE PAY ITEM).
9. ACCESS TO RESIDENCES AND BUSINESSES SHALL BE MAINTAINED THROUGHOUT THE COURSE OF THE PROJECT. CONTRACTOR SHALL INSTALL GRAVEL AS NECESSARY TO MAINTAIN TRAFFIC. GRAVEL IS ABSORBED INTO MAINTENANCE OF TRAFFIC.

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

CONSTRUCTION SIGNING PHASE 2		ENGINEER: THE WALKER ASSOCIATES, PLLC		WORKING NUMBER CS-2
		FILENAME: 178-11 Traffic Signal Sheets.dwg		SHEET NUMBER 7.2
DATE		CHECKED BY: DBG		DATE: Jul 09, 2020

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

NOTE: ALL WORK PERFORMED ON US HIGHWAY 49 SHALL BE PERFORMED BETWEEN THE HOURS OF 6:00 P.M. & 6:00 A.M. WITH ONE-LANE CLOSURES. ALL US HIGHWAY 49 LANES *MUST* BE OPEN TO TRAFFIC WITH NO LANE CLOSURES BY 6:00 A.M. EACH MORNING. ALL ITEMS NECESSARY FOR NIGHT WORK SHALL BE INCLUDED IN MAINTENANCE OF TRAFFIC PAY ITEMS.



GENERAL NOTES:

1. TYPE III BARRICADES SHALL BE INSTALLED ACROSS ENTIRE WIDTH OF ROADWAY AS SHOWN AND SHALL BE MAINTAINED BY THE CONTRACTOR.
2. ONLY 1 LANE IN EACH DIRECTION OF HIGHWAY 49 MAY BE CLOSED AT ANY GIVEN TIME. ALL LANE CLOSURES SHALL COMPLY WITH APPLICABLE DETAILS AS SHOWN ON SHEETS TCP-1, TCP-2, AND/OR TCP-3 (6250 - 6252).
3. TEXT SHOWN FOR VARIABLE MESSAGE SIGNS IS BASED ON 3 LINES OF 8 CHARACTER TEXT.
4. ALL SIGNS SHALL COMPLY WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
5. SIGNS AS SHOWN REPRESENT THE MINIMUM AMOUNT OF CONSTRUCTION SIGNING REQUIRED. IN THE EVENT THAT ADDITIONAL SIGNAGE IS REQUIRED TO MEET MDOT REGULATIONS AND MUTCD COMPLIANCE, THE CONTRACTOR SHALL INCLUDE SUCH ITEMS IN THE PROVIDED BID ITEMS.
6. ALL PERMANENT STRIPING AND SIGNAGE (CONTRACTOR SHALL COVER SIGNS THAT DO NOT APPLY UNTIL A LATER PHASE OF CONSTRUCTION AS DIRECTED BY THE ENGINEER - NOT A SEPARATE PAY ITEM) SHALL BE INSTALLED FOR EACH PHASE AT THE CONCLUSION OF THE PHASE AND PRIOR TO REMOVAL OF TEMPORARY CONSTRUCTION SIGNING WITH EXCEPTION OF THE STOP BARS ALONG HIGHWAY 49 WHICH ARE TO BE INSTALLED AT THE CONCLUSION OF PHASE 4.
7. SIGN SYMBOLS ARE FOR REFERENCE AND ORIENTATION ONLY. ALL SIGNS SHALL COMPLY WITH THE LATEST EDITION OF THE MUTCD AND MDOT REGULATIONS.
8. TYPE 3 BARRICADES SHOWN ON PLANS ARE NOT TO SCALE AND ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL INSTALL AS MANY TYPE 3 BARRICADES AS NECESSARY IN EACH LOCATION SHOWN ON THE PLANS (NOT A SEPARATE PAY ITEM).
9. ACCESS TO RESIDENCES AND BUSINESSES SHALL BE MAINTAINED THROUGHOUT THE COURSE OF THE PROJECT. CONTRACTOR SHALL INSTALL GRAVEL AS NECESSARY TO MAINTAIN TRAFFIC. GRAVEL IS ABSORBED INTO MAINTENANCE OF TRAFFIC.

SCALE: 1' = 200'

CONSTRUCTION SIGNING

PHASE 4

ENGINEER: THE WALKER ASSOCIATES, PLLC

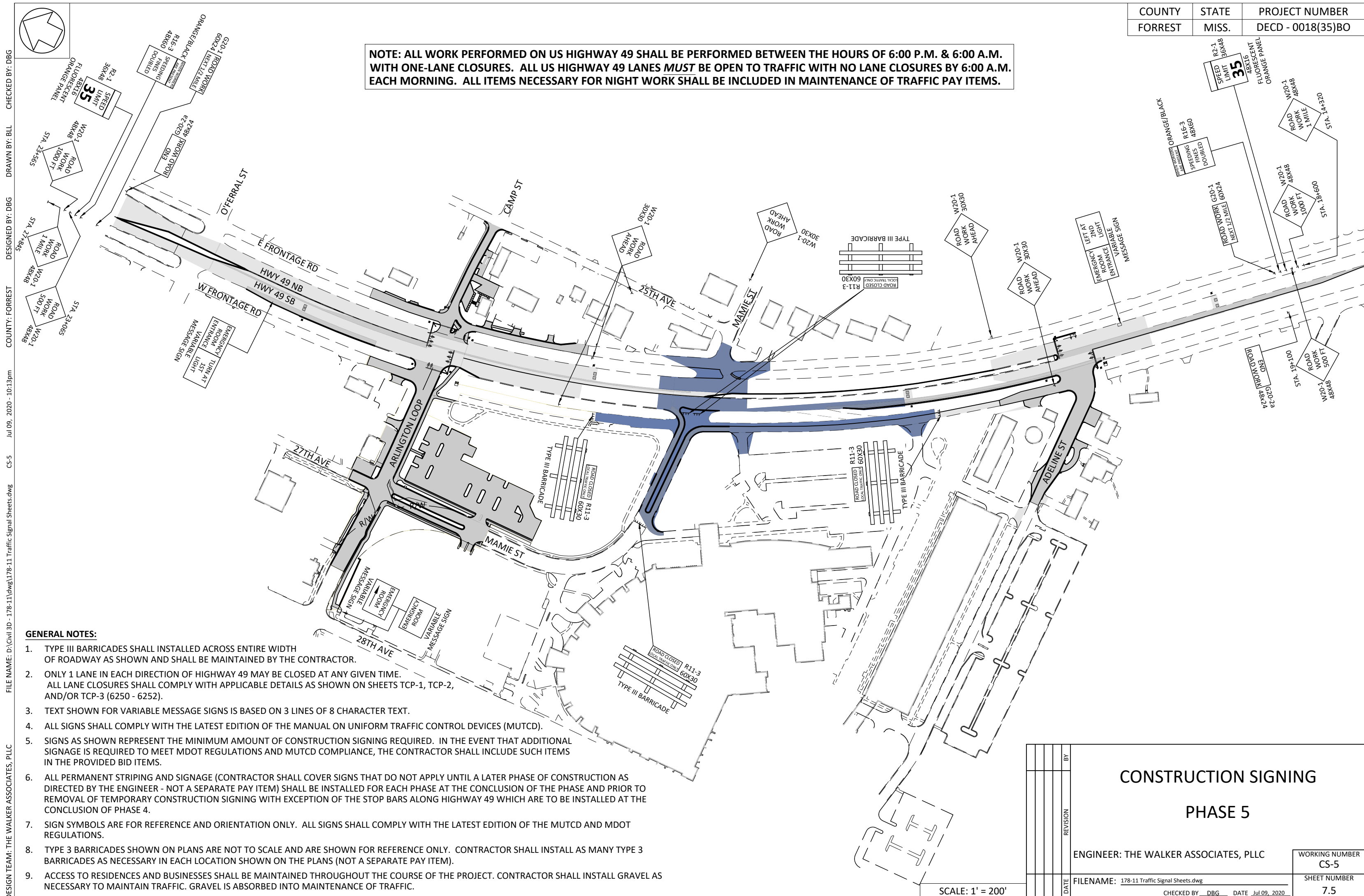
FILENAME: 178-11 Traffic Signal Sheets.dwg

CHECKED BY DBG DATE Jul 09, 2020

WORKING NUMBER
CS-4
SHEET NUMBER
74

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

NOTE: ALL WORK PERFORMED ON US HIGHWAY 49 SHALL BE PERFORMED BETWEEN THE HOURS OF 6:00 P.M. & 6:00 A.M. WITH ONE-LANE CLOSURES. ALL US HIGHWAY 49 LANES *MUST* BE OPEN TO TRAFFIC WITH NO LANE CLOSURES BY 6:00 A.M. EACH MORNING. ALL ITEMS NECESSARY FOR NIGHT WORK SHALL BE INCLUDED IN MAINTENANCE OF TRAFFIC PAY ITEMS.



GENERAL NOTES:

1. TYPE III BARRICADES SHALL INSTALLED ACROSS ENTIRE WIDTH OF ROADWAY AS SHOWN AND SHALL BE MAINTAINED BY THE CONTRACTOR.
2. ONLY 1 LANE IN EACH DIRECTION OF HIGHWAY 49 MAY BE CLOSED AT ANY GIVEN TIME. ALL LANE CLOSURES SHALL COMPLY WITH APPLICABLE DETAILS AS SHOWN ON SHEETS TCP-1, TCP-2, AND/OR TCP-3 (6250 - 6252).
3. TEXT SHOWN FOR VARIABLE MESSAGE SIGNS IS BASED ON 3 LINES OF 8 CHARACTER TEXT.
4. ALL SIGNS SHALL COMPLY WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
5. SIGNS AS SHOWN REPRESENT THE MINIMUM AMOUNT OF CONSTRUCTION SIGNING REQUIRED. IN THE EVENT THAT ADDITIONAL SIGNAGE IS REQUIRED TO MEET MDOT REGULATIONS AND MUTCD COMPLIANCE, THE CONTRACTOR SHALL INCLUDE SUCH ITEMS IN THE PROVIDED BID ITEMS.
6. ALL PERMANENT STRIPING AND SIGNAGE (CONTRACTOR SHALL COVER SIGNS THAT DO NOT APPLY UNTIL A LATER PHASE OF CONSTRUCTION AS DIRECTED BY THE ENGINEER - NOT A SEPARATE PAY ITEM) SHALL BE INSTALLED FOR EACH PHASE AT THE CONCLUSION OF THE PHASE AND PRIOR TO REMOVAL OF TEMPORARY CONSTRUCTION SIGNING WITH EXCEPTION OF THE STOP BARS ALONG HIGHWAY 49 WHICH ARE TO BE INSTALLED AT THE CONCLUSION OF PHASE 4.
7. SIGN SYMBOLS ARE FOR REFERENCE AND ORIENTATION ONLY. ALL SIGNS SHALL COMPLY WITH THE LATEST EDITION OF THE MUTCD AND MDOT REGULATIONS.
8. TYPE 3 BARRICADES SHOWN ON PLANS ARE NOT TO SCALE AND ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL INSTALL AS MANY TYPE 3 BARRICADES AS NECESSARY IN EACH LOCATION SHOWN ON THE PLANS (NOT A SEPARATE PAY ITEM).
9. ACCESS TO RESIDENCES AND BUSINESSES SHALL BE MAINTAINED THROUGHOUT THE COURSE OF THE PROJECT. CONTRACTOR SHALL INSTALL GRAVEL AS NECESSARY TO MAINTAIN TRAFFIC. GRAVEL IS ABSORBED INTO MAINTENANCE OF TRAFFIC.

SCALE: 1' = 200'

CONSTRUCTION SIGNING

PHASE 5

ENGINEER: THE WALKER ASSOCIATES, PLLC

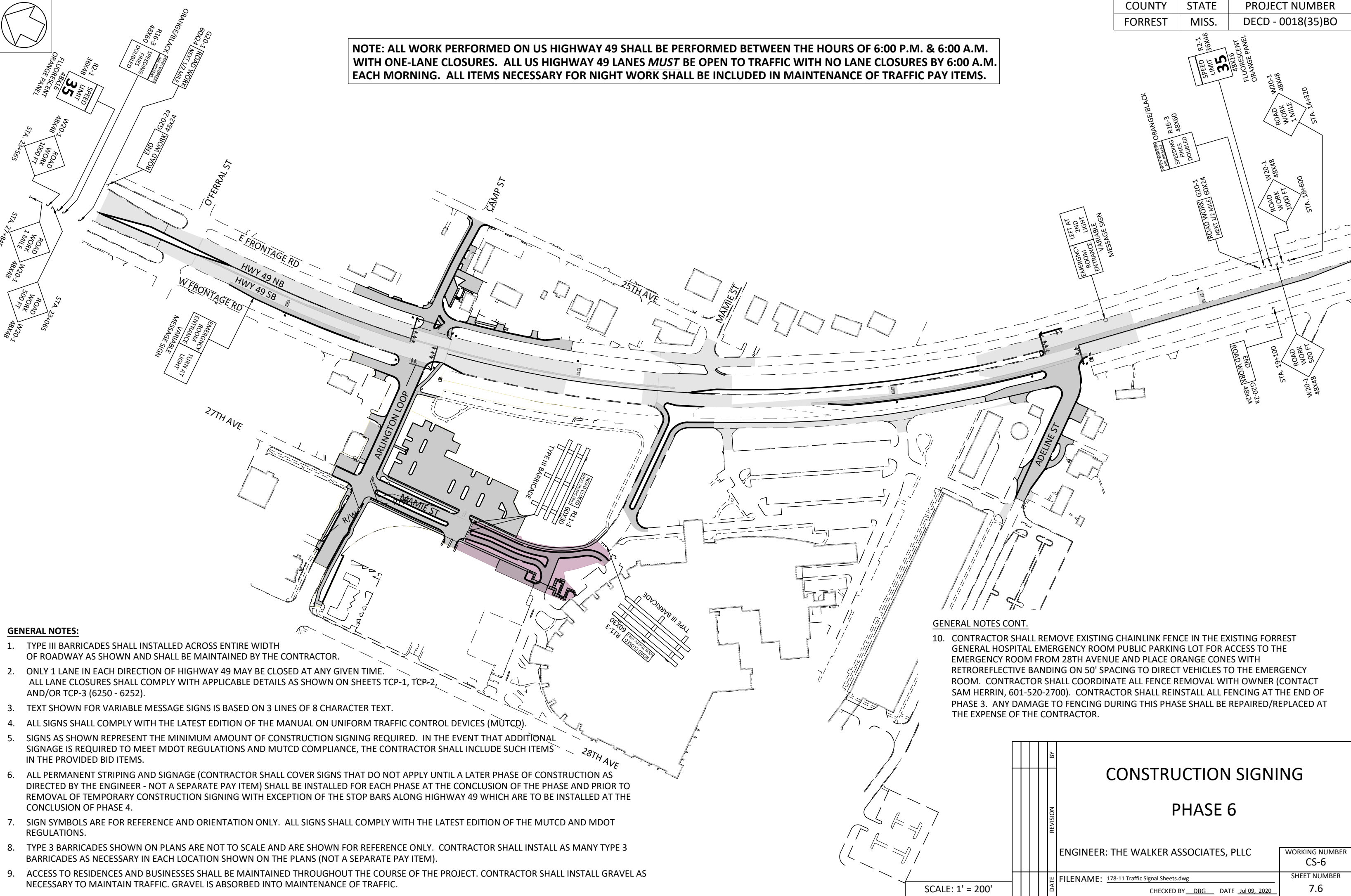
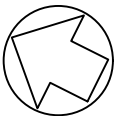
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CHECKED BY DBG DATE Jul 09, 2020

WORKING NUMBER CS-5

SHEET NUMBER	7.5
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FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Traffic Signal Sheets.dwg
DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
COUNTY: FORREST
DESIGNED BY: DBG
DRAWN BY: BILL
CHECKED BY: DBG
Jul 09, 2020 - 10:14pm
CS-6



NOTE: ALL WORK PERFORMED ON US HIGHWAY 49 SHALL BE PERFORMED BETWEEN THE HOURS OF 6:00 P.M. & 6:00 A.M. WITH ONE-LANE CLOSURES. ALL US HIGHWAY 49 LANES *MUST* BE OPEN TO TRAFFIC WITH NO LANE CLOSURES BY 6:00 A.M. EACH MORNING. ALL ITEMS NECESSARY FOR NIGHT WORK SHALL BE INCLUDED IN MAINTENANCE OF TRAFFIC PAY ITEMS.

- GENERAL NOTES:**
- TYPE III BARRICADES SHALL INSTALLED ACROSS ENTIRE WIDTH OF ROADWAY AS SHOWN AND SHALL BE MAINTAINED BY THE CONTRACTOR.
 - ONLY 1 LANE IN EACH DIRECTION OF HIGHWAY 49 MAY BE CLOSED AT ANY GIVEN TIME. ALL LANE CLOSURES SHALL COMPLY WITH APPLICABLE DETAILS AS SHOWN ON SHEETS TCP-1, TCP-2, AND/OR TCP-3 (6250 - 6252).
 - TEXT SHOWN FOR VARIABLE MESSAGE SIGNS IS BASED ON 3 LINES OF 8 CHARACTER TEXT.
 - ALL SIGNS SHALL COMPLY WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
 - SIGNS AS SHOWN REPRESENT THE MINIMUM AMOUNT OF CONSTRUCTION SIGNING REQUIRED. IN THE EVENT THAT ADDITIONAL SIGNAGE IS REQUIRED TO MEET MDOT REGULATIONS AND MUTCD COMPLIANCE, THE CONTRACTOR SHALL INCLUDE SUCH ITEMS IN THE PROVIDED BID ITEMS.
 - ALL PERMANENT STRIPING AND SIGNAGE (CONTRACTOR SHALL COVER SIGNS THAT DO NOT APPLY UNTIL A LATER PHASE OF CONSTRUCTION AS DIRECTED BY THE ENGINEER - NOT A SEPARATE PAY ITEM) SHALL BE INSTALLED FOR EACH PHASE AT THE CONCLUSION OF THE PHASE AND PRIOR TO REMOVAL OF TEMPORARY CONSTRUCTION SIGNING WITH EXCEPTION OF THE STOP BARS ALONG HIGHWAY 49 WHICH ARE TO BE INSTALLED AT THE CONCLUSION OF PHASE 4.
 - SIGN SYMBOLS ARE FOR REFERENCE AND ORIENTATION ONLY. ALL SIGNS SHALL COMPLY WITH THE LATEST EDITION OF THE MUTCD AND MDOT REGULATIONS.
 - TYPE 3 BARRICADES SHOWN ON PLANS ARE NOT TO SCALE AND ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL INSTALL AS MANY TYPE 3 BARRICADES AS NECESSARY IN EACH LOCATION SHOWN ON THE PLANS (NOT A SEPARATE PAY ITEM).
 - ACCESS TO RESIDENCES AND BUSINESSES SHALL BE MAINTAINED THROUGHOUT THE COURSE OF THE PROJECT. CONTRACTOR SHALL INSTALL GRAVEL AS NECESSARY TO MAINTAIN TRAFFIC. GRAVEL IS ABSORBED INTO MAINTENANCE OF TRAFFIC.

- GENERAL NOTES CONT.**
- CONTRACTOR SHALL REMOVE EXISTING CHAINLINK FENCE IN THE EXISTING FORREST GENERAL HOSPITAL EMERGENCY ROOM PUBLIC PARKING LOT FOR ACCESS TO THE EMERGENCY ROOM FROM 28TH AVENUE AND PLACE ORANGE CONES WITH RETROREFLECTIVE BANDING ON 50' SPACING TO DIRECT VEHICLES TO THE EMERGENCY ROOM. CONTRACTOR SHALL COORDINATE ALL FENCE REMOVAL WITH OWNER (CONTACT SAM HERRIN, 601-520-2700). CONTRACTOR SHALL REINSTALL ALL FENCING AT THE END OF PHASE 3. ANY DAMAGE TO FENCING DURING THIS PHASE SHALL BE REPAIRED/REPLACED AT THE EXPENSE OF THE CONTRACTOR.

SCALE: 1' = 200'

				BY	CONSTRUCTION SIGNING PHASE 6
				REVISION	ENGINEER: THE WALKER ASSOCIATES, PLLC

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832
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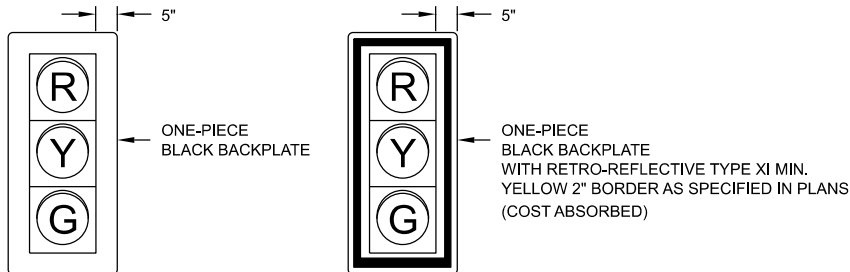
DETAIL OF TYPICAL TRAFFIC SIGNAL HEADS

TYPE 1	TYPE 2	TYPE 2 FYA	TYPE 2B FYA	TYPE 3	TYPE 4	TYPE 6	TYPE 7	TYPE H

NOTES:

- ALL SIGNAL HEADS SHALL BE BLACK IN COLOR UNLESS OTHERWISE NOTED ON THE PLANS.
- ALL SIGNAL HEADS SHALL BE L.E.D. LENSES UNLESS OTHERWISE NOTED ON THE PLANS. TYPE "A" SIGNAL HEAD IS TO BE GEOMETRICALLY PROGRAMMED VIA LOUVERS.
- LETTER "R" ON HEAD TYPES MEANS RIGHT TURN ARROW(S).
- TYPE 6 SIGNAL HEAD SYMBOLS/NUMBERS SHALL BE FULLY ILLUMINATED (NO OUTLINE SYMBOLS ALLOWED). THERE IS A SEPARATE PAY ITEM FOR PEDESTRIAN PUSHBUTTON. PEDESTRIAN PUSHBUTTON SHALL BE FURNISHED WITH R10-3e SIGN. (COST ABSORBED).
- ALL FYA SIGNAL HEAD SHALL BE FURNISHED WITH R10-12M SIGN. WHEN NOTED ON PLANS, TYPE 4 & 5 SIGNAL HEADS SHALL BE FURNISHED WITH R10-10L, R10-10R, OR R10-17M SIGN. TYPE 7 SIGNAL HEAD SHALL BE FURNISHED WITH R10-12 SIGN. TYPE 7 R REQUIRES NO SIGN. TYPE H SIGNAL HEAD SHALL BE FURNISHED WITH R10-23 SIGN WHEN INDICATED ON PLANS. COST OF SIGNAL SIGNS, MOUNTING BRACKETS, HARDWARE, AND LABOR SHALL BE COST ABSORBED.
- FOR SPAN WIRE INSTALLATION, THE HOUSING FOR THE RED INDICATION OF A TYPE 7 HEAD, SHALL BE ALUMINUM.

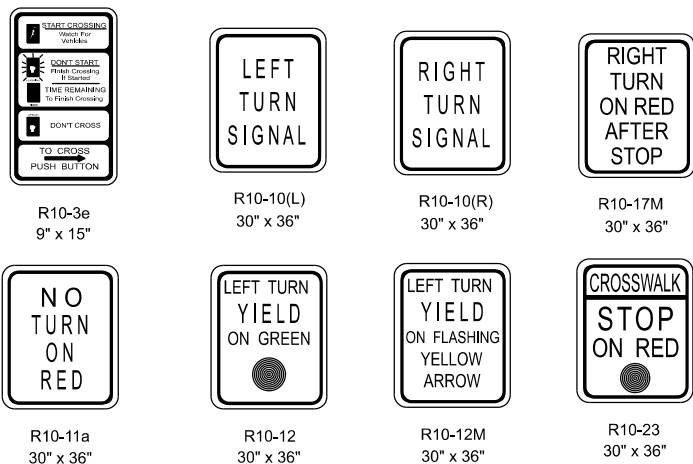
DETAIL OF TRAFFIC SIGNAL WITH BACKPLATE



NOTE:

ALL SIGNAL HEADS SHALL INCLUDE BACKPLATES AND VISORS
UNLESS OTHERWISE NOTED ON TRAFFIC SIGNAL INSTALLATION SHEETS.

DETAIL OF TYPICAL TRAFFIC SIGNAL SIGNS



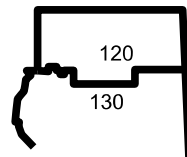
NOTES:

- ALUMINUM SIGN BLANKS ARE TO BE ALUMINUM ALLOY 5052-H38 AND 0.10" THICK.
- THE SIGNS SHALL BE SUPPLIED WITH MOUNTING BRACKETS AND HARDWARE AS REQUIRED.
- NUMBER 12 PLATED JACK CHAINS SHALL BE ATTACHED TO THE BOTTOM OF ALL SPAN WIRE MOUNTED SIGNS.
- CHAINS SHALL BE ATTACHED TO SIGN AND TETHER USING "S" HOOKS.
- THE SIZE OF THE SIGN BLANK, LEGEND, BORDER AND THE COLOR OF THE BACKGROUND AND LEGEND IS TO CONFORM TO THE M.U.T.C.D. (LATEST EDITION).
- REFLECTIVE SHEETING FOR TRAFFIC SIGNS SHALL BE TYPE XI PRISMATIC RETROREFLECTIVE SHEETING.

SIGNAL PLAN LEGEND

	SIGNAL HEAD REQUIRED / TYPE
	PEDESTRAIN HEAD REQUIRED
	EXISTING SIGNAL HEAD
	SIGN
	VEHICLE LOOP DETECTOR
	QUADRAPOLE VEHICLE LOOP DETECTOR
	VEHICLE LOOP DETECTOR NUMBER
	WIRELESS MAGNETOMETER SENSOR
	BASE MOUNTED CABINET FOR SIGNAL CONTROLLER
	POLE MOUNTED CABINET FOR SIGNAL CONTROLLER
	EXISTING POLE
	POLE REQUIRED
	NEW PEDESTAL POLE
	MAST ARM POLE REQUIRED
	EXISTING PULLBOX
	PULLBOX REQUIRED (TYPE SPECIFIED ON PLAN SHEETS)
	RADAR DETECTOR (RD)
	VIDEO DETECTOR (VD)
	MULTI SENSOR DETECTOR (MS)
	OPTICAL DETECTOR UNIT
	CONDUIT
	ROLL PIPE
	LUMINAIRE
	DECORATIVE LUMINAIRE
	GROUND MOUNTED PEDESTAL SERVICE PANEL
	RADIO INTERCONNECT ANTENNA
	TWO-WAY WIRELESS ANTENNA
	WIRELESS REPEATER
	PTZ / FIXED CAMERA
	P.B. PUSH BUTTON
	S.C. SHIELDED CABLE
	POW POWER CABLE
	LUM LUMINAIRE POWER CABLE
	ODC OPTICAL DETECTOR CABLE
	8c NUMBER OF CONDUCTORS
	I.C. INTERCONNECT CABLE
	RAD RADIO COMMUNICATIONS CABLE
	FO FIBER OPTIC CABLE (72 SM)
	FO DROP FIBER DROP CABLE (12 SM)
	DC DETECTION CABLE
	STOP BAR DETECTION ZONE
	ADVANCED DETECTION ZONE

WIND SPEEDS AND ICING REGION MAP



2009/2013 AASHTO WIND LOAD LIST BY COUNTY

COUNTY	BASIC WIND SPEED MPH	ICE LOADING REQD
Adams	100	NO
Alcorn	90	YES
Amite	110	NO
Attala	100	YES
Benton	90	YES
Bolivar	90	YES
Calhoun	90	YES
Carroll	90	YES
Chickasaw	90	YES
Choctaw	90	YES
Claiborne	100	NO
Clarke	110	NO
Clay	90	YES
Coahoma	90	YES
Copiah	90	NO
Covington	110	NO
DeSoto	90	YES
Forrest	120	NO
Franklin	100	NO
George	130	NO
Greene	120	NO
Grenada	90	YES
Hancock	140	NO
Harrison	140	NO
Hinds	100	NO
Holmes	90	YES
Humphreys	90	YES
Issaquena	90	NO
Itawamba	90	YES
Jackson	140	NO
Jasper	110	NO
Jefferson	100	NO

COUNTY	BASIC WIND SPEED MPH	ICE LOADING REQD
Jefferson Davis	110	NO
Jones	110	NO
Kemper	100	NO
Lafayette	90	YES
Lamar	120	NO
Lauderdale	110	NO
Lawrence	110	NO
Leake	100	NO
Lee	90	YES
Leflore	90	YES
Lincoln	100	NO
Lowndes	90	YES
Madison	100	NO
Marion	110	NO
Marshall	90	YES
Monroe	90	YES
Montgomery	90	YES
Neshoba	100	NO
Newton	100	NO
Noxubee	100	YES
Oktibbeha	90	YES
Panola	90	YES
Pearl River	130	NO
Perry	120	NO
Pike	110	NO
Pontotoc	90	YES
Prentiss	90	YES
Quitman	90	YES
Rankin	100	NO
Scott	100	NO
Sharkey	90	NO
Simpson	100	NO
Smith	100	NO
Stone	130	NO
Sunflower	90	YES
Tallahatchie	90	YES
Tate	90	YES
Tippah	90	YES
Tishomingo	90	YES
Tunica	90	YES
Union	90	YES
Walthall	110	NO
Warren	90	NO
Washington	90	YES
Wayne	110	NO
Webster	90	YES
Wilkinson	100	NO
Winston	100	YES
Yalobusha	90	YES
Yazoo	90	NO

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL HEADS, TRAFFIC SIGNAL SIGNS AND WIND SPEEDS

PROJ. NO.:
COUNTY:FILENAME: Final TSDs 3.6.2019.dgn
DESIGN TEAM: CECED 04019-03-06

PRELIMINARY

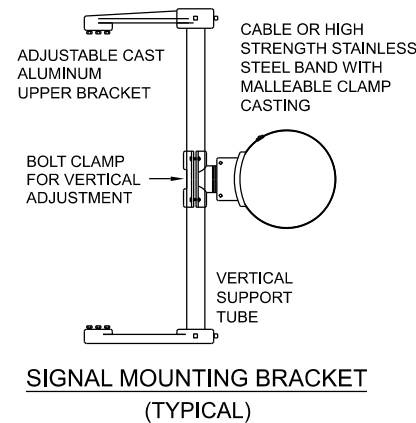
NOT FOR

CONSTRUCTION

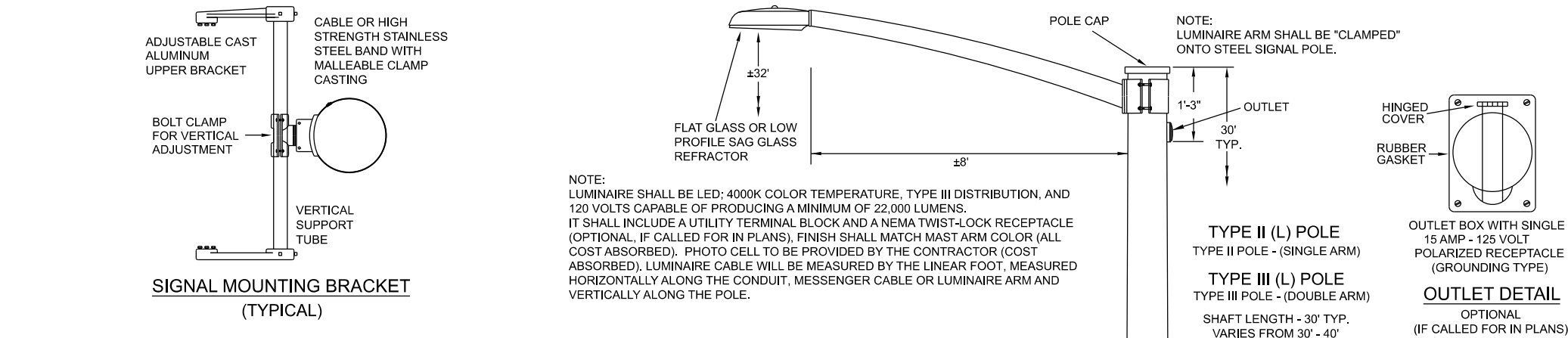
WORKING NUMBER

SHEET NUMBER

TSD-2

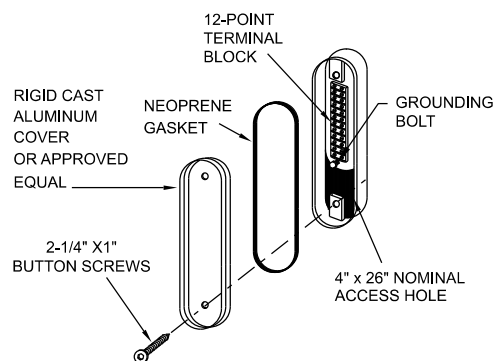
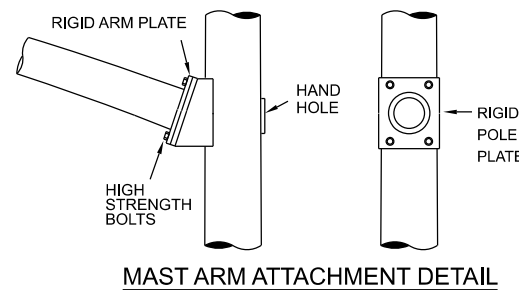
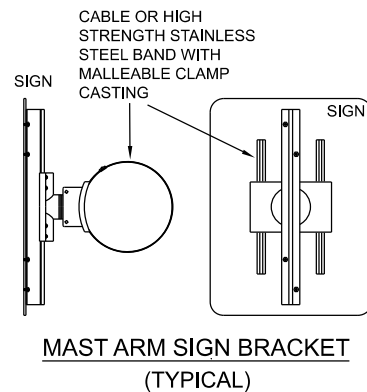
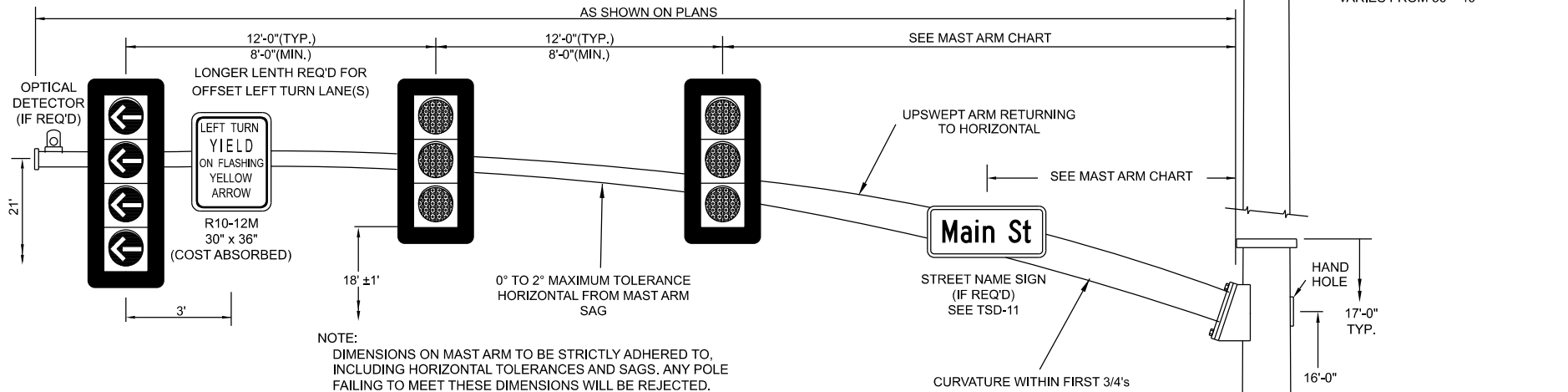
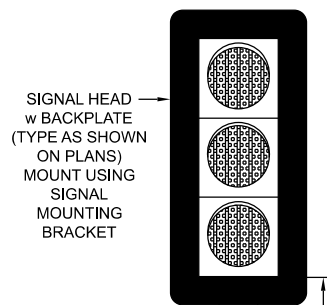


NOTE:
LUMINAIRE SHALL BE LED; 4000K COLOR TEMPERATURE, TYPE III DISTRIBUTION, AND 120 VOLTS CAPABLE OF PRODUCING A MINIMUM OF 22,000 LUMENS. IT SHALL INCLUDE A UTILITY TERMINAL BLOCK AND A NEMA TWIST-LOCK RECEPTACLE (OPTIONAL, IF CALLED FOR IN PLANS). FINISH SHALL MATCH MAST ARM COLOR (ALL COST ABSORBED). PHOTO CELL TO BE PROVIDED BY THE CONTRACTOR (COST ABSORBED). LUMINAIRE CABLE WILL BE MEASURED BY THE LINEAR FOOT, MEASURED HORIZONTALLY ALONG THE CONDUIT, MESSENGER CABLE OR LUMINAIRE ARM AND VERTICALLY ALONG THE POLE.



NOTES:

1. WIRE ENTRANCE TO MAST ARM WILL BE FIELD DRILLED TO CORRESPOND TO THE LOCATION OF THE SIGNAL HEADS WHEN ALIGNED IN FIELD.
2. RED SECTION INDICATIONS OF SIGNAL HEADS TO BE APPROXIMATELY SAME HEIGHT.
3. EXACT DIMENSIONS AND LOCATIONS OF ANCHOR BOLTS TO BE SUPPLIED BY THE POLE MANUFACTURER.
4. THE CONTRACTOR SHALL PROVIDE MAST ARM POLE DESIGN CERTIFICATION AND CALCULATIONS AS OUTLINED IN SECTION 722.02 OF STANDARD SPECIFICATIONS. DESIGN STANDARD FOR MAST ARM POLES SHALL BE 2013 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS. USE FATIGUE CATEGORY II. DO NOT CONSIDER GALLOPING OR TRUCK FORCES. USE 50 YEAR DESIGN LIFE. WIND AND ICE LOADS VARIABLE BASED UPON MAPS IN THE 2013 AASHTO SPECIFICATION. USE UPSWEPT MAST ARMS.
5. #6 COPPER GROUND WIRE INSIDE POLE AND MAST ARM TO BE COST ABSORBED.



NOTE:
HANDHOLE TO BE ORIENTED AWAY FROM ON COMING TRAFFIC AND NOT ON THE SAME SIDE AS PED PUSHBUTTON IF POSSIBLE.

TYPE II POLE
TYPE II POLE - (SINGLE ARM)

TYPE III POLE
TYPE III POLE - (DOUBLE ARM)

SHAFT LENGTH - 17' TYP.
VARIES FROM 16' - 22'

LED TYPE 1 SIGNAL HEAD (WHERE REQ'D.) MOUNT USING SIGNAL MOUNTING BRACKET (SHOWN ABOVE)

LED COUNT DOWN TYPE PEDESTRIAN SIGNAL (WHERE REQUIRED)

CABLE ROUTING SHALL BE ENTIRELY INTERIOR TO POLE AND MOUNTING HARDWARE

POLE MOUNTED CONTROLLER MAY BE REQUIRED

SIGN - R10-3a, R10-3e OR AS SHOWN ON PLANS (WHERE REQ'D.)

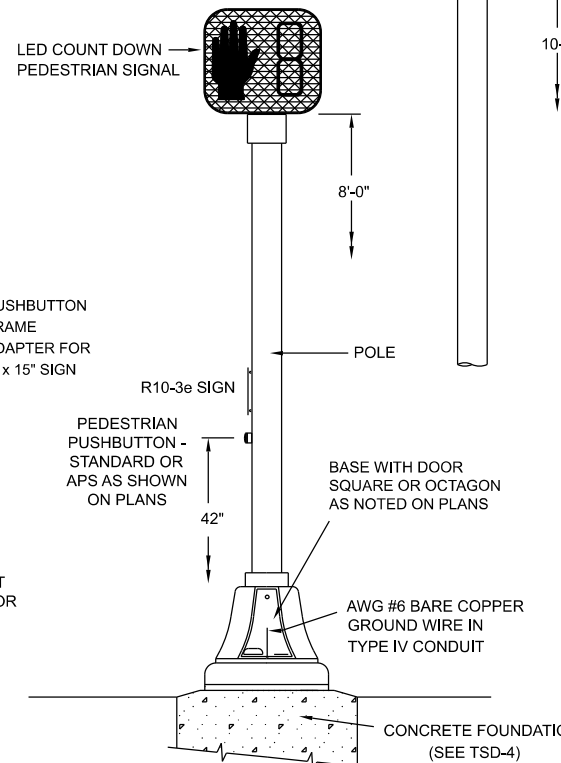
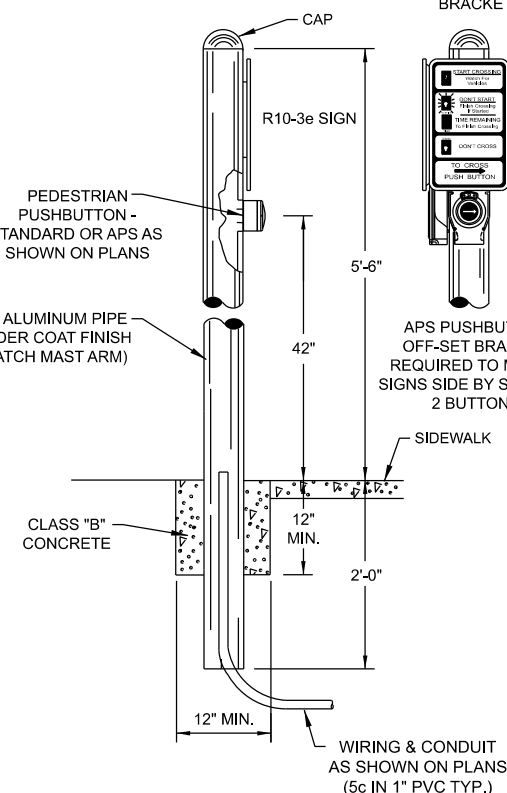
PEDESTRIAN PUSHBUTTON - STANDARD OR APS AS SHOWN ON PLANS (WHERE REQ'D.)

POLE FOUNDATIONS ARE TO EXTEND ABOVE GROUND LEVEL TO $\pm 3'$ OF EDGE OF PAVEMENT ELEVATION

3" MAX.

CONCRETE FOUNDATION (SEE TSD-4)

STEEL MAST ARM POLE DETAIL
NOT TO SCALE

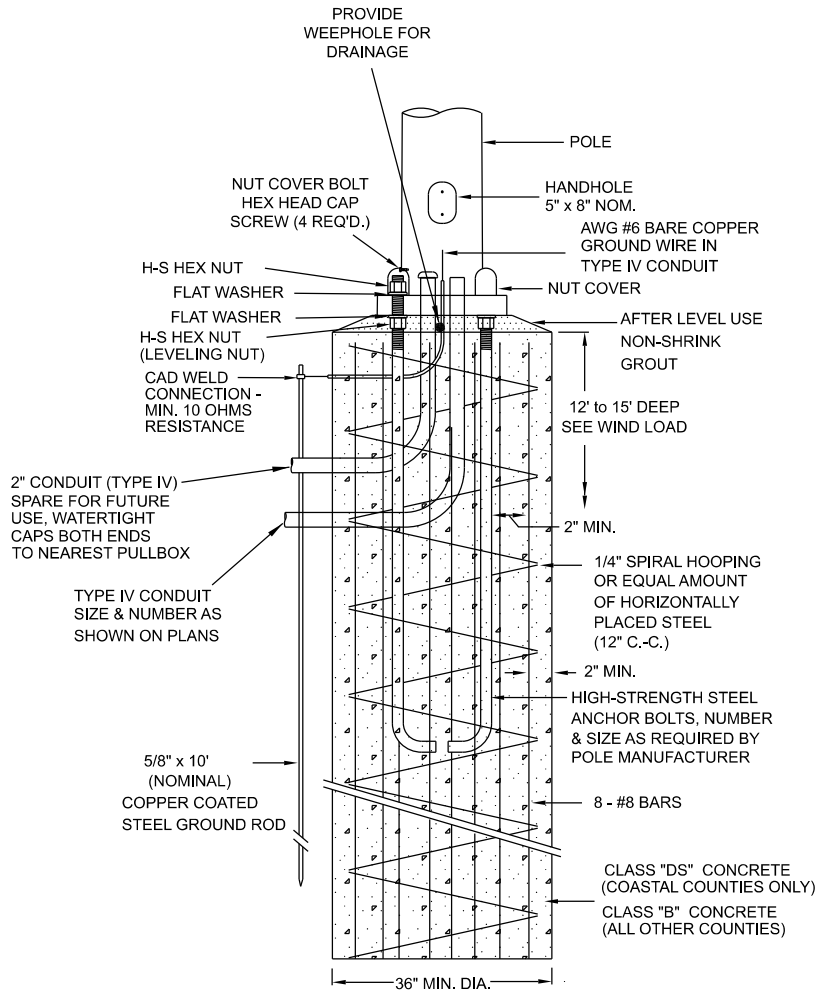


TYPE V POLE
(TRAFFIC SIGNAL)

TYPE VI POLE
(PEDESTRIAN SIGNAL)

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

CURVED MAST
ARM AND
PEDESTAL POLE
DETAILSPROJ. NO.:
COUNTY:FILENAME: Final TSDs 3.6.2019.dgn
DESIGN TEAM: DESIGNED: 04/01/19-03-05PRELIMINARY
NOT FOR
CONSTRUCTION
WORKING NUMBER
SHEET NUMBER
TSD-3C



TYPE I POLE FOUNDATION DETAIL

NOT TO SCALE

WIND SPEED DETERMINES SHAFT DIAMETER AND DEPTH:

FOUNDATION CHART

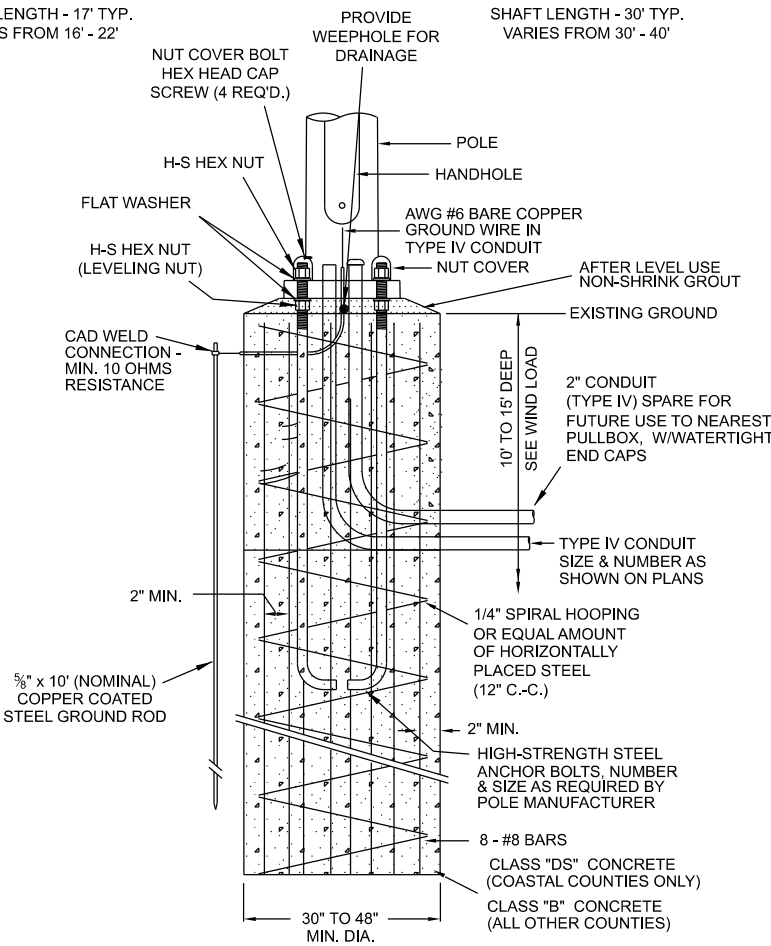
WIND SPEED	POLE TYPE	DIA. (IN.)	DEPTH (FT.)	CONCRETE	SLIP CASING
90 MPH	I	36"	12'	B	NO
100 - 130 MPH	I	36"	15'	B	NO
140 MPH	I	36"	15'	DS	YES

*SEE WIND SPEED MAP IN 2013 AASHTO GUIDELINES ON TSD-2.

TYPE II POLE
TYPE II POLE - (SINGLE ARM)

TYPE III POLE
TYPE III POLE - (DOUBLE ARM)

SHAFT LENGTH - 17' TYP.
VARIES FROM 16' - 22'



STEEL MAST ARM POLE FOUNDATION DETAIL

NOT TO SCALE

WIND SPEED DETERMINES SHAFT DIAMETER AND DEPTH:

FOUNDATION CHART

WIND SPEED	POLE TYPE	ARM LENGTH	DIA. (IN.)	DEPTH (FT.)	CONCRETE	SLIP CASING
90 MPH	II, II (L)	5' - 45'	30"	10'	B	NO
90 MPH	II, II (L)	50' - 80'	36"	12'	B	NO
90 MPH	III, III (L)	5' - 80'	36"	15'	B	NO
90 MPH	II, II (L), III, III (L)	85' & OVER	48"	15'	B	NO
100 - 130 MPH	II, II (L), III, III (L)	5' - 80'	36"	15'	B	NO
100 - 130 MPH	II, II (L), III, III (L)	85' & OVER	48"	15'	B	NO
140 MPH	II, II (L), III, III (L)	5' - 80'	36"	15'	DS	YES
140 MPH	II, II (L), III, III (L)	85' & OVER	48"	15'	DS	YES

*SEE WIND SPEED MAP IN 2013 AASHTO GUIDELINES ON TSD-2.

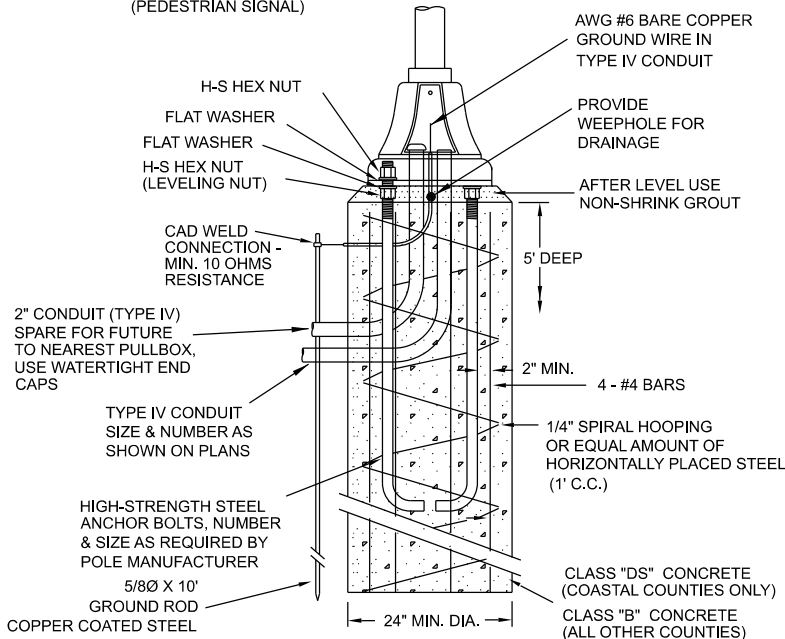
TYPE II (L) POLE
TYPE II POLE - (SINGLE ARM)

TYPE III (L) POLE
TYPE III POLE - (DOUBLE ARM)

SHAFT LENGTH - 30' TYP.
VARIES FROM 30' - 40'

TYPE V POLE
(TRAFFIC SIGNAL)

TYPE VI POLE
(PEDESTRIAN SIGNAL)



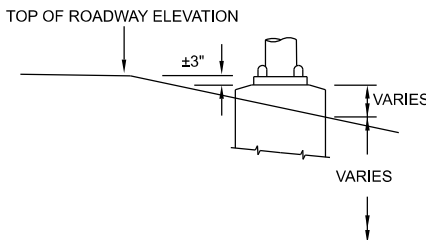
PEDESTAL POLE FOUNDATION DETAIL

NOT TO SCALE

FOUNDATION CHART

WIND SPEED	POLE TYPE	DIA. (IN.)	DEPTH (FT.)	CONCRETE	SLIP CASING
90 - 130 MPH	V, VI	24"	5'	B	NO
140 MPH	V, VI	24"	5'	DS	NO

*SEE WIND SPEED MAP IN 2013 AASHTO GUIDELINES ON TSD-2.



LOW SHOULDER FOUNDATION DETAIL

NOT TO SCALE

FOUNDATION GENERAL NOTES

1. THE CONTRACTOR SHALL STAKE THE LOCATION OF EACH POLE FOUNDATION AND NOTIFY THE PROJECT ENGINEER FOR CONCURRENCE IN THE LOCATION BEFORE PROCEEDING WITH THE PURCHASE OF THE POLE.
2. EXACT DIMENSIONS AND LOCATIONS OF ANCHOR BOLTS TO BE SUPPLIED BY THE MANUFACTURER. ANY FOUNDATIONS FAILING TO MEET MINIMUM DIMENSIONS WILL BE REJECTED.
3. DRY SHAFT EXCAVATION MUST MEET REQUIREMENTS OF SECTION 803.03.2.3.2. IF GROUNDWATER OR HOLE INSTABILITY IS ENCOUNTERED, SLIP CASING AND 10' TREMIE SHALL BE REQUIRED.
4. GROUND RODS TO BE DRIVEN UNTIL AT LEAST 12" BELOW FINISHED GROUND. SEE TRAFFIC SIGNAL GROUNDING DETAILS (TSD-5) FOR ADDITIONAL INFORMATION.

5. POLE FOUNDATIONS OF THE SIZE SPECIFIED WILL BE MEASURED BY THE CUBIC YARD, WHICH MEASUREMENT SHALL BE THE AREA BOUNDED BY THE VERTICAL PLANES OF THE NEAT LINES OF THE FOUNDATION. FIELD CONDITIONS MAY REQUIRE TALLER FOUNDATIONS THAN SPECIFIED IN THE PLANS IN WHICH THE CONTRACTOR SHALL BE PAID FOR ADDITIONAL CONCRETE PER CUBIC YARD AS BID IN THE POLE FOUNDATIONS PAY ITEM. WHERE TALLER FOUNDATIONS ARE USED, SUPPORTING STEEL SHALL EXTEND THE FULL DEPTH OF THE FOUNDATION.
6. THE FINISHED TOP SURFACE OF EACH FOUNDATION SHALL BE ± 3 INCHES FROM THE PAVEMENT EDGE ELEVATION AT THE FOUNDATION LOCATION. WHERE FOUNDATIONS ARE CONSTRUCTED IN AREAS WHERE THE PAVEMENT EDGE ELEVATION AND SHOULDER EDGE ELEVATION DIFFER MORE THAN TWELVE (12) INCHES, TALLER FOUNDATIONS MAY BE USED BUT MUST BE APPROVED BY THE ENGINEER. TALLER POLES SHOULD BE EVALUATED TO MINIMIZE EXPOSED FOUNDATION.

7. WHEN POLES ARE SET WITHIN OR ON EDGE OF SIDEWALK, POLES SHALL BE AS FLUSH AS POSSIBLE WITH SIDEWALK GRADE. THE FOOTPRINT OF THE NON-SHRINK GROUT PAD MAY BE REDUCED IN SIZE TO PROVIDE ADEQUATE CLEARANCE FOR SIDEWALK AND/OR ACCESSIBILITY CONSIDERATIONS.

8. SLIP CASINGS OF THE SIZE SPECIFIED WILL BE MEASURED BY THE LINEAR FOOT FROM THE GROUND ELEVATION TO THE BOTTOM OF THE STRATA NEEDING TO BE CASED.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SIGNAL POLE AND
PEDESTAL POLE
FOUNDATION
DETAILS

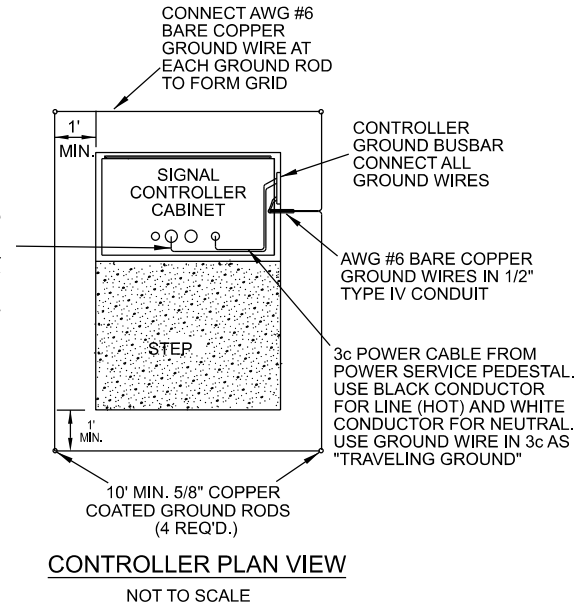
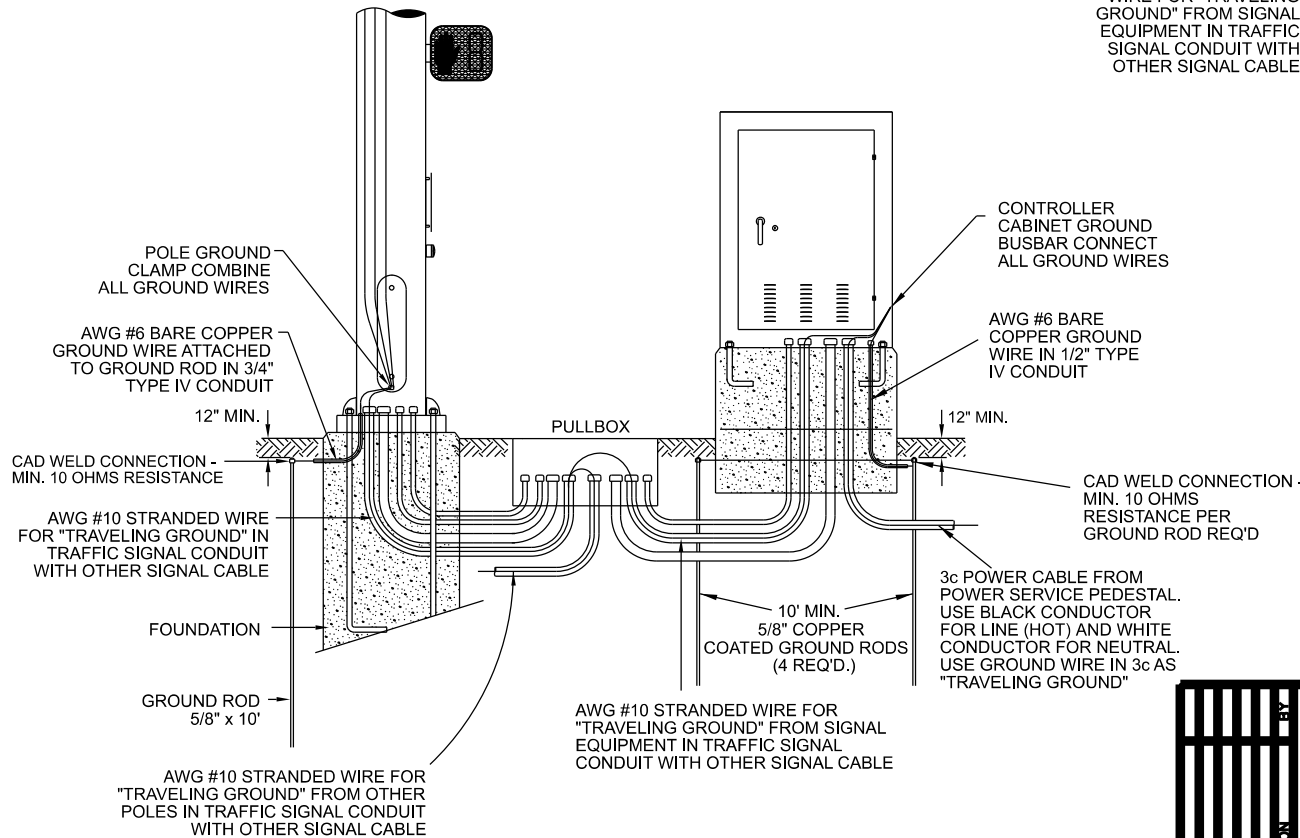
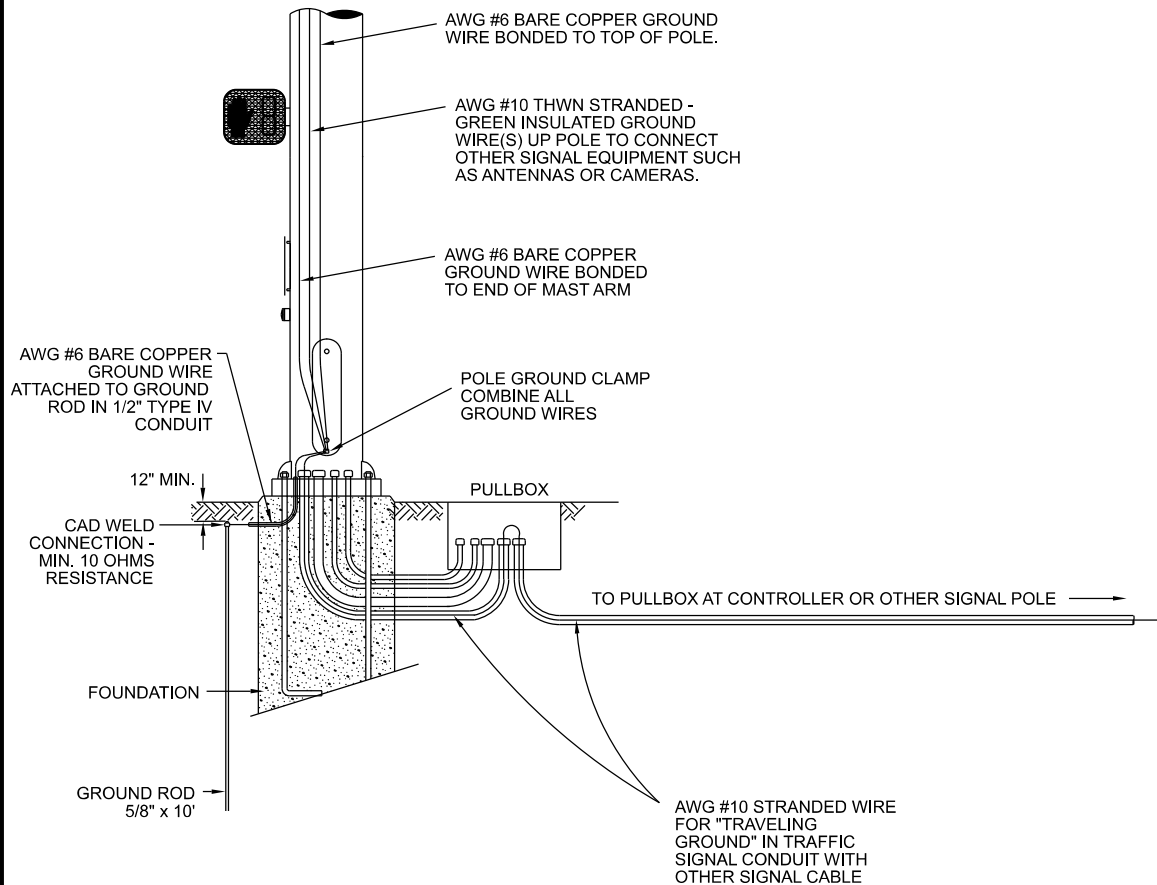
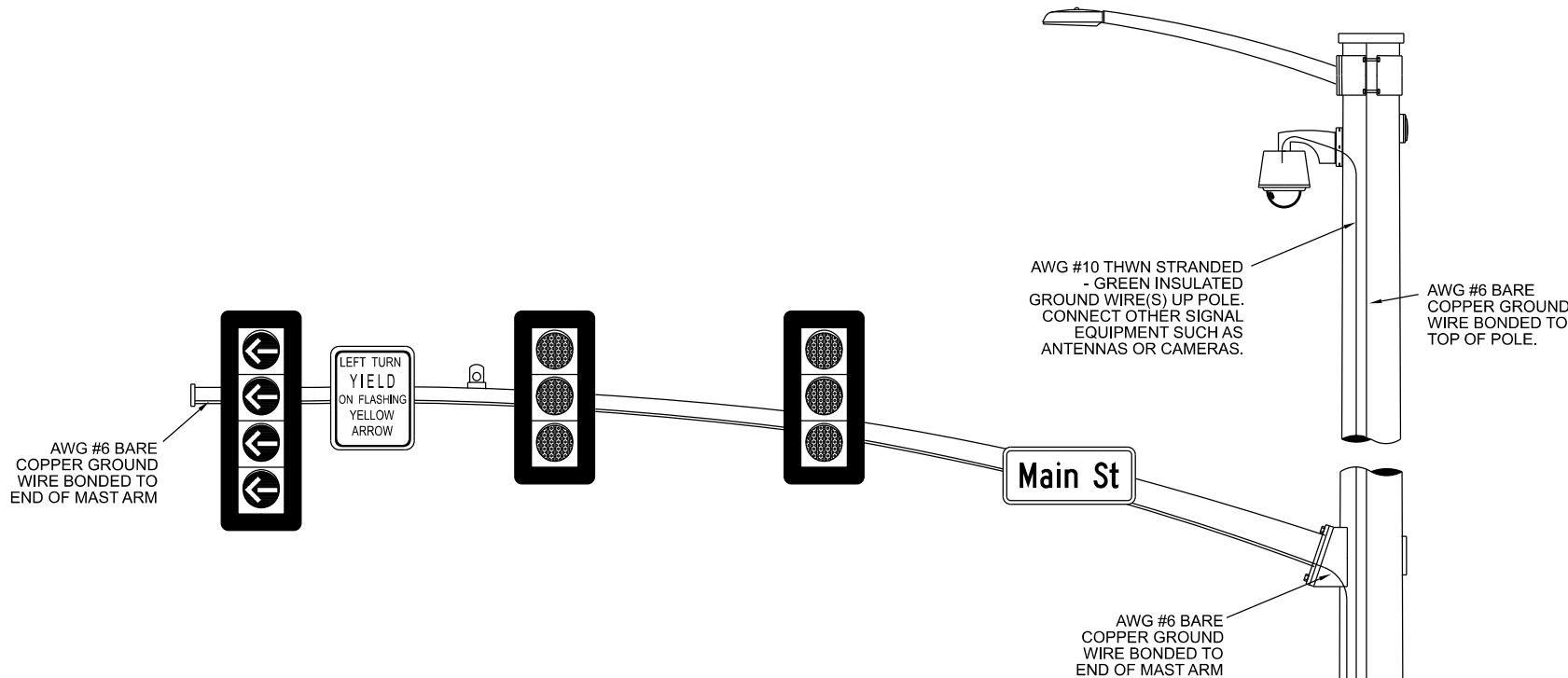
PROJ. NO.:
COUNTY:

FILENAME: Final TSDs 3.6.2019.dgn
DATE: 2019-03-06

PRELIMINARY
NOT FOR
CONSTRUCTION
WORKING NUMBER
SHEET NUMBER
TSD-4

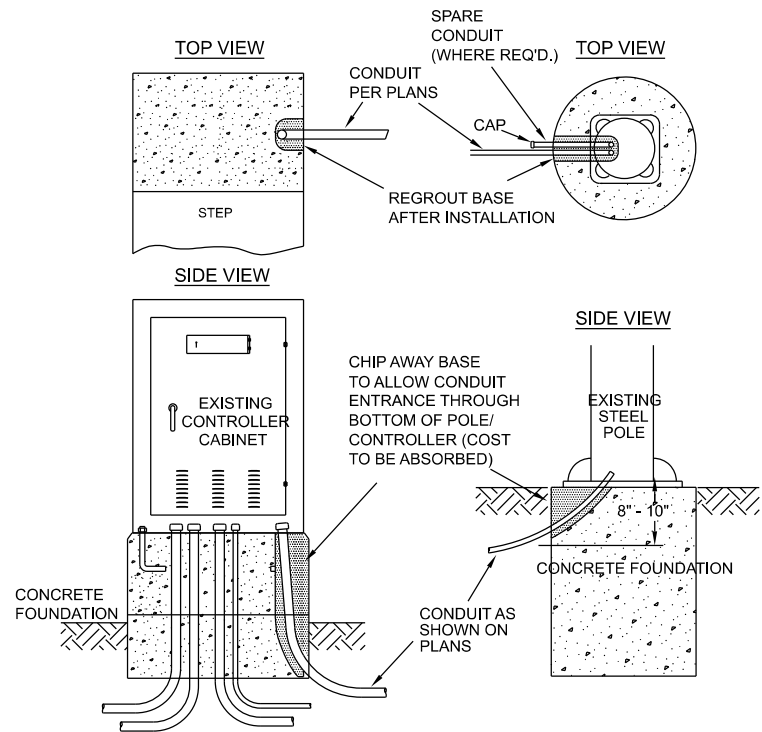
GROUNDING NOTES:

1. GROUND RODS USED SHALL BE COPPER CLAD, STEEL RODS OF THE DIAMETER AND LENGTH SHOWN ON THE PLANS. GROUND RODS SHALL CONFORM TO THE REQUIREMENTS OF UL-467. GROUNDING ROD COUPLERS SHALL BE UL APPROVED, MADE FROM BRONZE, STAINLESS STEEL OR COPPER CLAD WITH A SOLID CENTER PROVIDING 100 PERCENT CONDUCTIVITY.
2. SINGLE GROUND RODS SHALL BE DRIVEN VERTICALLY UNTIL THE TOP OF THE ROD IS AT LEAST 12 INCHES BELOW THE FINISHED GROUND.
3. SOLID CONDUCTOR COPPER WIRE, AWG # 6 SHALL BE USED FOR GROUNDING CONDUCTOR AND BONDING JUMPERS UNLESS OTHERWISE STATED IN THE PLANS. BARE SOLID CONDUCTOR COPPER WIRE SHALL MEET THE REQUIREMENTS OF ASTM B2.
4. AWG #10 THWN STRANDED - GREEN INSULATED WIRE SHALL BE USED FOR TRAVELING GROUND. THIS WIRE RUNS FROM POLE TO POLE BACK TO CONTROLLER CABINET TO TIE ALL EQUIPMENT TOGETHER. IT IS INSTALLED IN THE SAME CONDUIT AS THE OTHER SIGNAL CABLES.
5. THE GROUNDING CONDUCTOR SHALL BE CONTINUOUS AND SHALL BE CONNECTED TO A COMMON GROUND SYSTEM BETWEEN ALL SUPPORTING POLES AND STRUCTURES, TO EACH TRANSFORMER, AND TO EACH GROUNDING CONDUCTOR IN A MULTI-CONDUCTOR CABLE ASSEMBLY. ADDITIONAL GROUNDING RODS ELECTRODES (UP TO FOUR (4) RODS) SHALL BE INSTALLED TO OBTAIN A MAXIMUM VALUE OF FIVE (5) OHMS TO GROUND.
6. BOLTED GROUNDING CONNECTIONS OF SOLDER-LESS TYPE MADE OF THE HIGH STRENGTH ELECTRICAL BRONZE WITH SILICON BRONZE CLAMPING BOLTS AND HARDWARE MAY BE USED; DESIGNED SUCH THAT, BOLTS, NUTS, LOCK WASHERS AND SIMILAR HARDWARE THAT MIGHT NICK OR OTHERWISE DAMAGE THE GROUND WIRE WILL NOT DIRECTLY CONTACT THE GROUND WIRE. GROUNDING SPLICES SHALL NOT BE INSULATED.
7. EXOTHERMIC WELDED GROUND CONNECTIONS SHALL BE USE WHERE SPECIFIED.
8. ALL SIGNAL EQUIPMENT AND CABLE SHALL BE PROTECTED WITH AN INLINE SURGE SUPPRESSOR IF RECOMMENDED BY THE MANUFACTURER OR A PANEL MOUNTED SURGE SUPPRESSOR AS RECOMMENDED BY THE MANUFACTURER OR APPROVED EQUAL, INSTALLED AND GROUNDED PER MANUFACTURER'S RECOMMENDATIONS.
9. ALL GROUNDING EQUIPMENT AND WIRE SHALL BE COST ABSORBED.

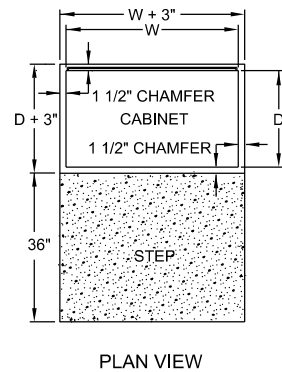


GROUNDING DETAIL
NOT TO SCALE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
TRAFFIC SIGNAL GROUNDING DETAILS	
PROJ. NO.:	PRELIMINARY
COUNTY:	NOT FOR CONSTRUCTION
FILENAME: Final TSDs 3.6.2019.dgn	WORKING NUMBER
DATE: 08/01/19	SHEET NUMBER
DESIGNER: [Signature]	TSD-5



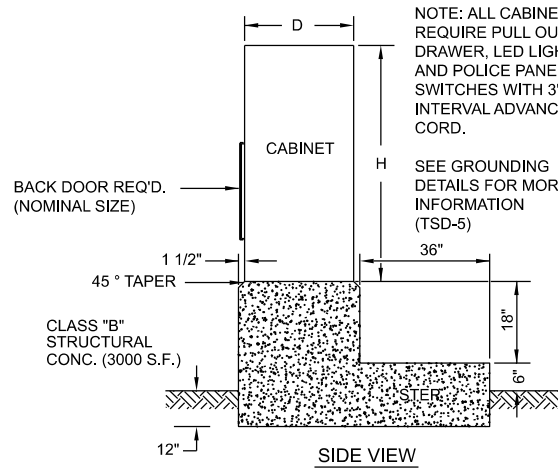
CONDUIT ENTRANCE DETAIL
(EXISTING CABINET OR POLE)



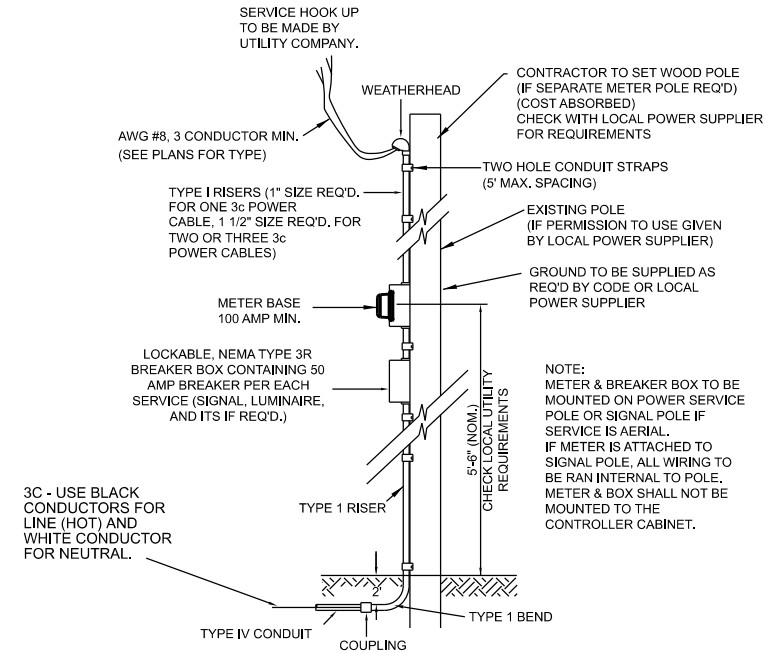
CABINET INFORMATION

TYPE	SIZE (MIN.)	LOAD BAY
TYPE I CABINET	51"H x 30"W x 18"D	8 POSITION
TYPE II CABINET	51"H x 36"W x 18"D	12 POSITION
TYPE III CABINET	56"H x 44"W x 27"D	16 POSITION
TYPE IV CABINET	56"H x 57"W x 29"D	16 POSITION
TYPE V CABINET	77"H x 44"W x 27"D	16 POSITION

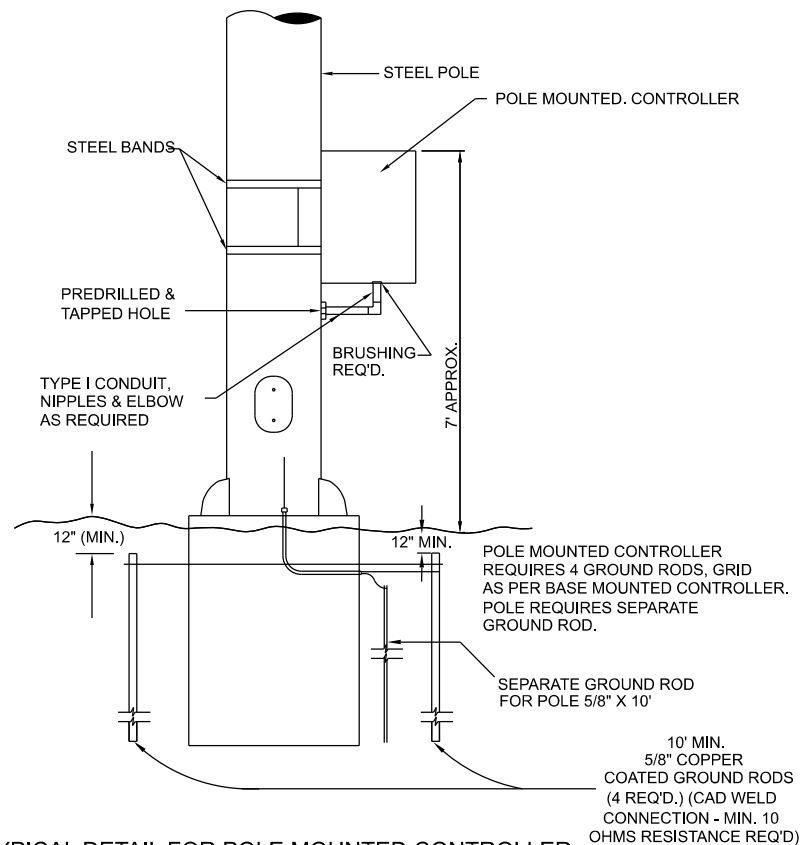
TYPE I AND II MAY BE POLE OR BASE MOUNTED, ALL OTHERS ARE BASE MOUNT. CONTRACTOR TO VERIFY CABINET SIZE BEFORE POURING FOUNDATION.



NOTE: THE BASE MOUNTED CABINET IS TO BE SITUATED IN THE OPTIMUM POSITION FOR VIEWING THE CONTROLLER OPERATION AND THE ON STREET SIGNAL DISPLAYS SIMULTANEOUSLY. THIS POSITION IS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

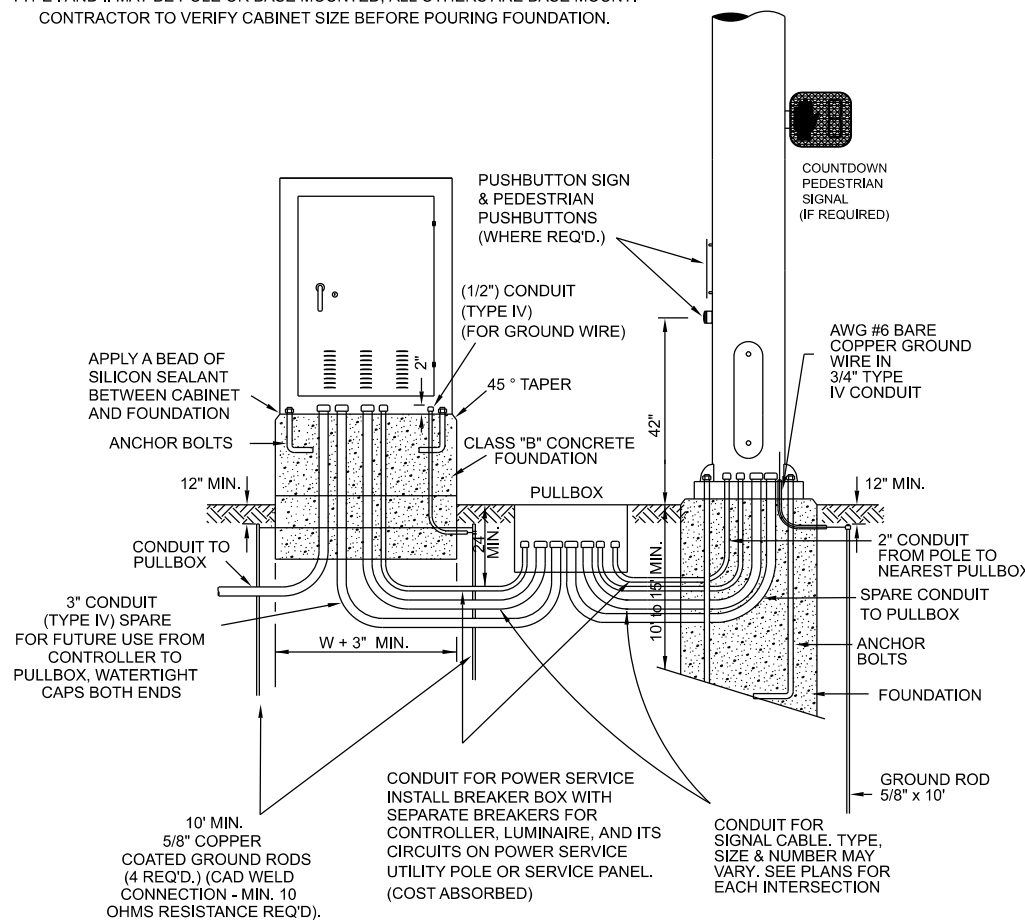


POWER SERVICE DETAIL
TO BE USED WHEN METER IS SET ON POLE.



TYPICAL DETAIL FOR POLE MOUNTED CONTROLLER

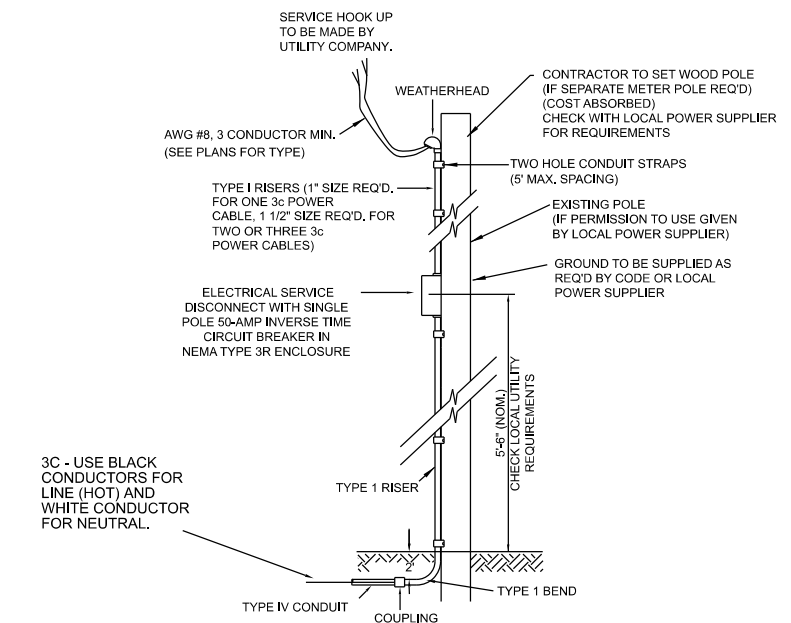
NOT TO SCALE



FRONT VIEW

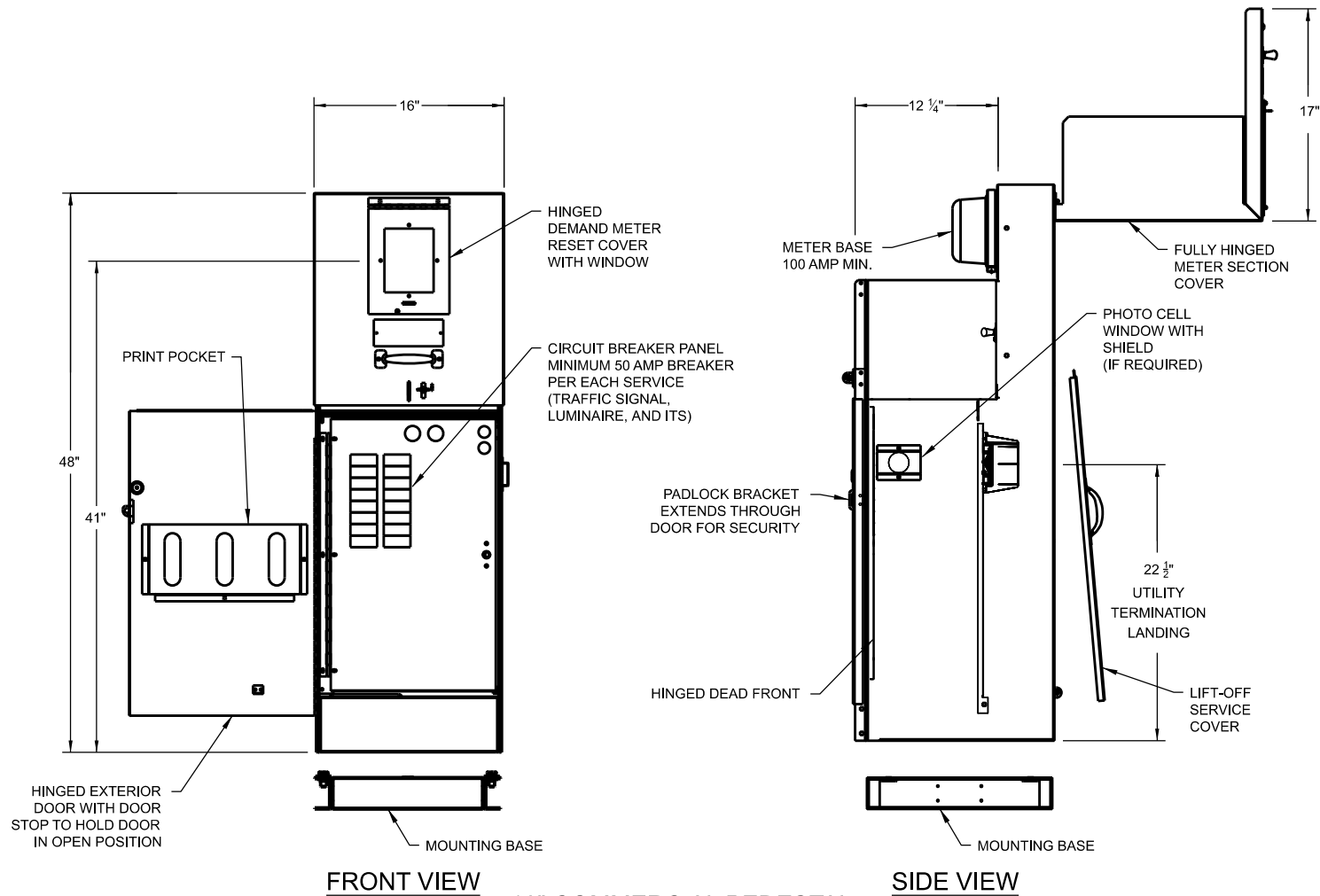
TYPICAL DETAIL OF BASE FOR CONTROLLER EQUIPMENT CABINET

NOT TO SCALE

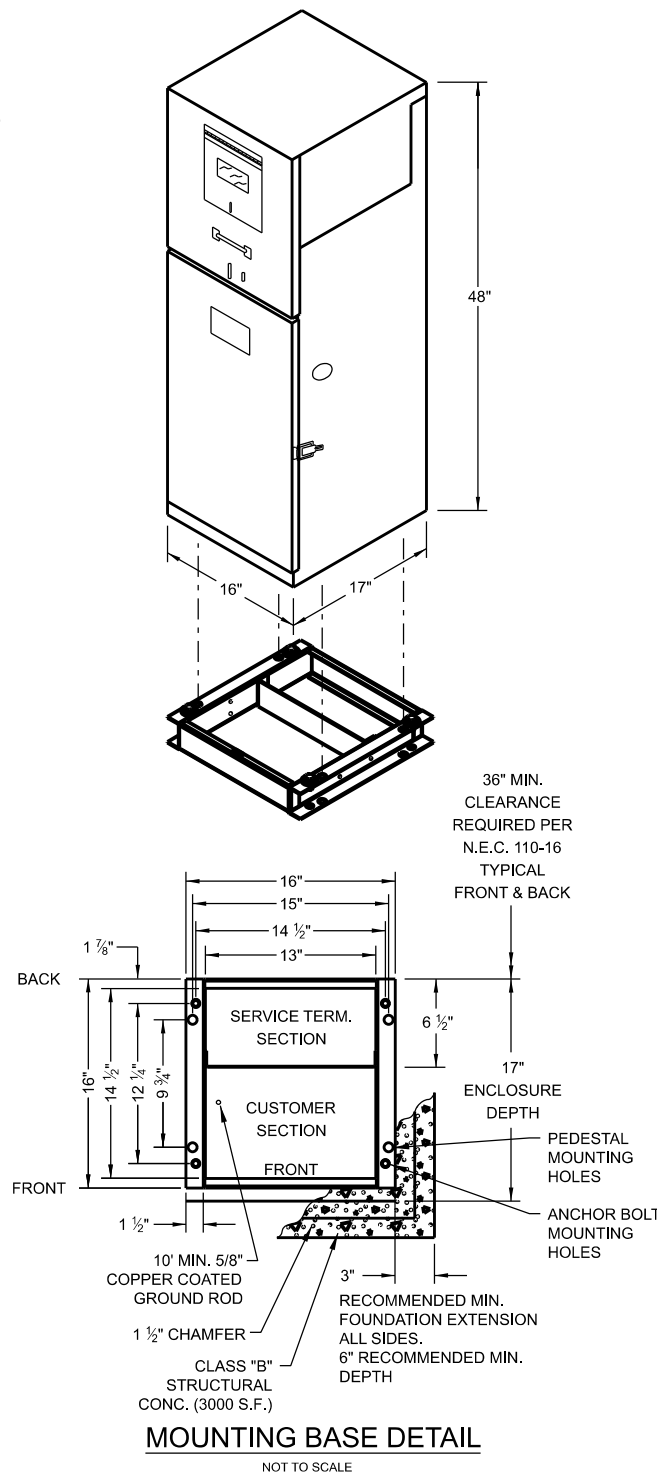


POWER SERVICE DETAIL
TO BE USED FOR POWER SERVICE PEDESTAL - SEE TSD-7 FOR DETAILS.

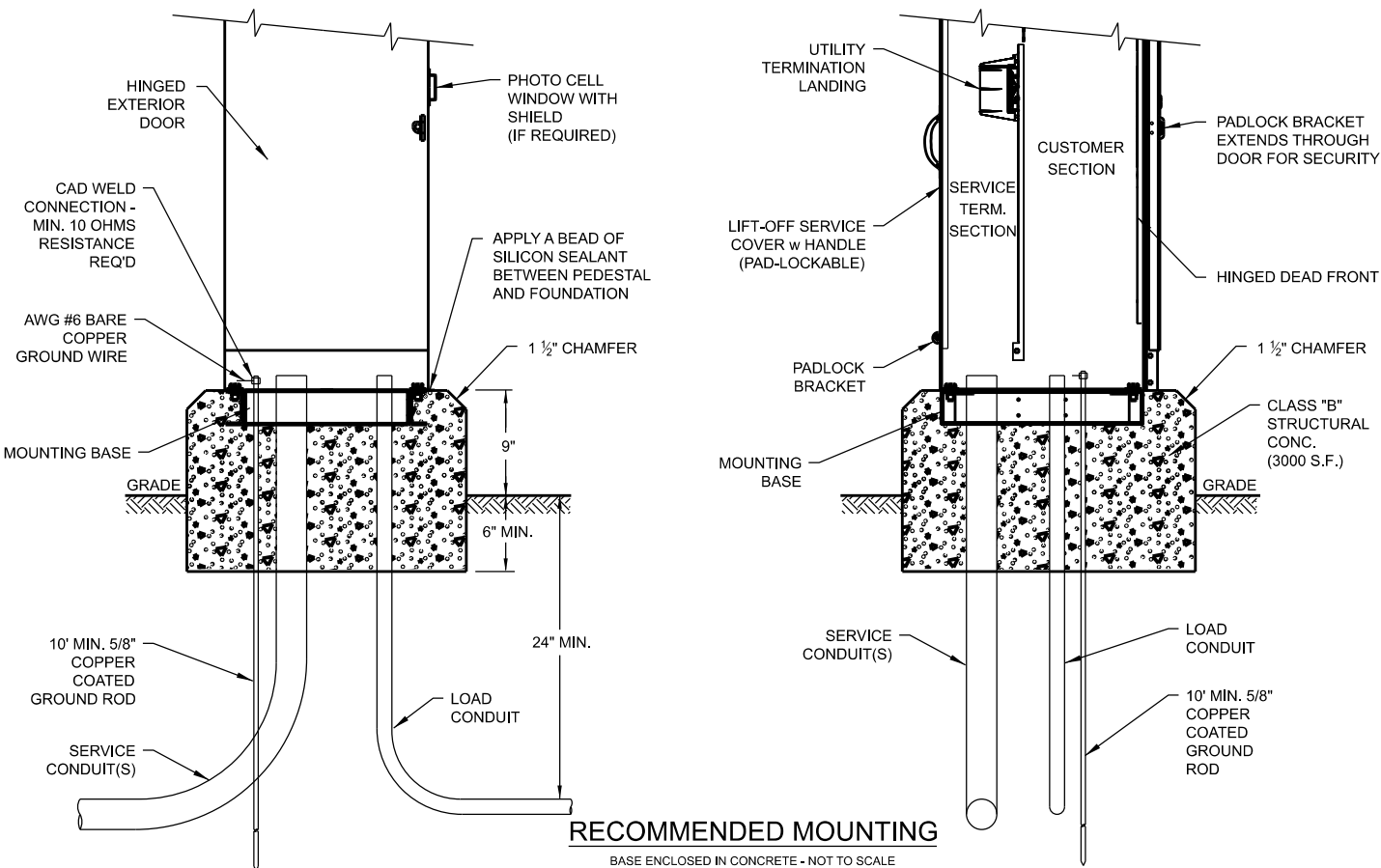
MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
CONTROLLER CABINET AND POWER SERVICE DETAIL	
PRELIMINARY NOT FOR CONSTRUCTION	WORKING NUMBER
PROJ. NO.:	SHEET NUMBER
COUNTY:	TSD-6
FILENAME: Final TSDs 3.6.2019.dgn	DATE: 04/01/2019
DESIGN TEAM	DATE: 04/01/2019



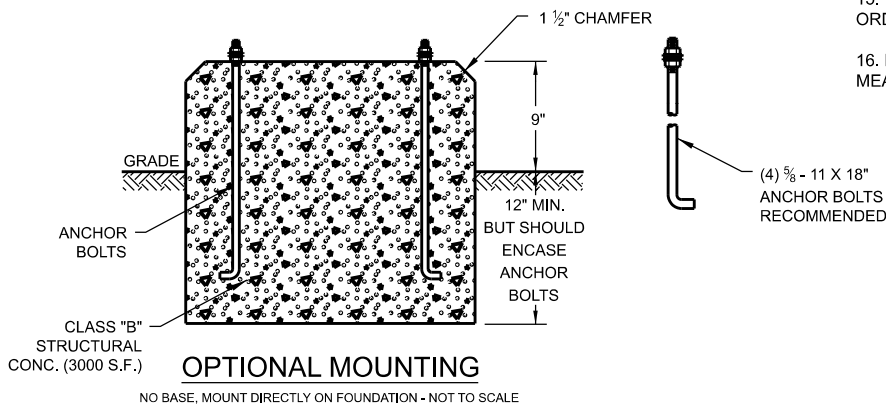
16" COMMERCIAL PEDESTAL
NOT TO SCALE



MOUNTING BASE DETAIL
NOT TO SCALE



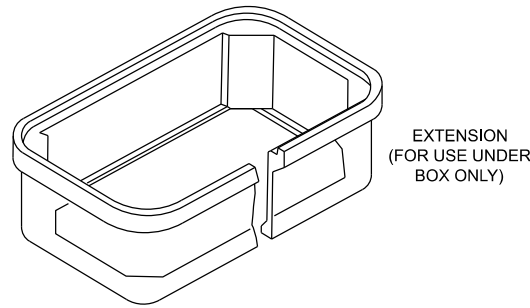
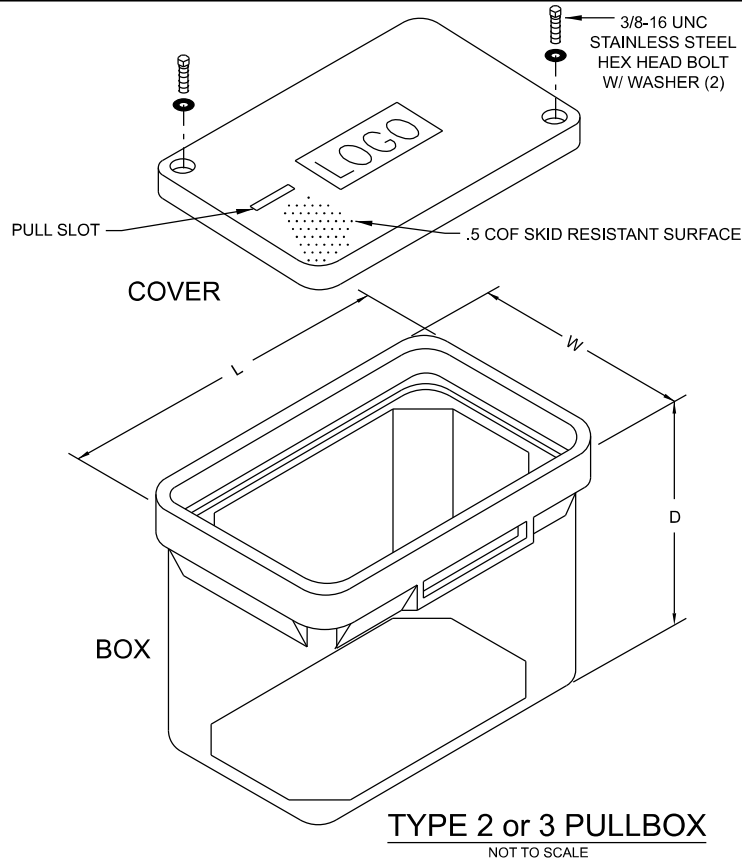
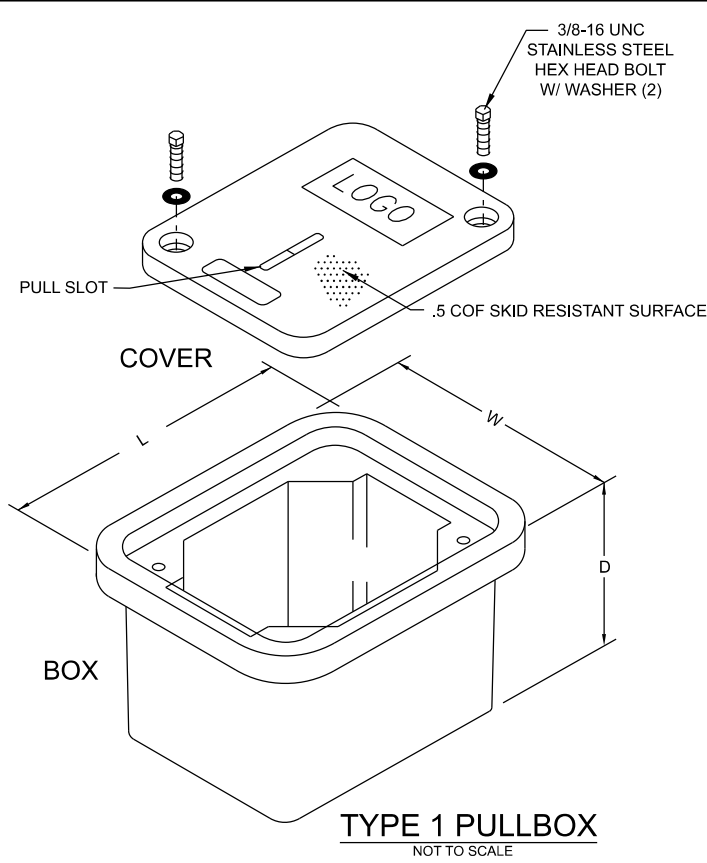
RECOMMENDED MOUNTING
BASE ENCLOSED IN CONCRETE - NOT TO SCALE



OPTIONAL MOUNTING
NO BASE, MOUNT DIRECTLY ON FOUNDATION - NOT TO SCALE

- GENERAL NOTES:
1. THE PEDESTAL SHALL BE OF NEMA TYPE 3R RAINPROOF CONSTRUCTION AND SHALL BE UL LISTED AS "ENCLOSED INDUSTRIAL CONTROL EQUIPMENT" (UL 508A). EXTERNAL CONSTRUCTION SHALL COMPLY WITH UL50 REQUIREMENTS AND SHALL BE UNPAINTED ALUMINUM.
 2. NOMINAL SIZE OF THE PEDESTAL SHALL BE 48"H X 16"W X 16"D. DIMENSION SHOWN ARE TYPICAL. CONTRACTOR TO VERIFY ALL DIMENSIONS WITH MANUFACTURER PRIOR TO INSTALLATION.
 3. PEDESTAL SHALL HAVE A VOLTAGE RATING OR 120V/240V SINGLE PHASE WITH AN AMPERAGE RATING OF 800A.
 4. HINGES SHALL BE STAINLESS STEEL AND OF THE CONTINUOUS PIANO HINGE TYPE.
 5. THE PEDESTAL MOUNTING BOLTS SHALL NOT BE EXTERNALLY ACCESSIBLE. THE PEDESTAL SHALL BE ABLE TO BE EMBEDDED IN CONCRETE OR USE ANCHOR BOLTS FOR MOUNTING ON CONCRETE BASE. EITHER PEDESTAL MOUNTING BASE OR ANCHOR BOLT KIT SHALL BE REQUIRED FOR INSTALLATION.
 6. THE SERVICE PEDESTAL SHALL HAVE THREE SEPARATE ISOLATED SECTIONS FOR METERING EQUIPMENT, UTILITY TERMINATION AND CUSTOMER EQUIPMENT.
 7. THE METERING SECTION SHALL BE PAD-LOCKABLE AND SEALABLE AND HAVE A HINGED SWING HOOD WITH AN INTEGRAL HINGED POLYCARBONATE SEALABLE WINDOW FOR ACCESS TO DEMAND METERS. METER SOCKET TYPE SHALL MEET THE REQUIREMENTS OF THE SERVING UTILITY.
 8. THE UTILITY TERMINATION SECTION SHALL BE PAD-LOCKABLE AND SEALABLE AND SHALL HAVE A STAINLESS STEEL HANDLE PROVIDED ON A LIFT-OFF COVER. SUFFICIENT CLEARANCE SHALL BE PROVIDED FOR A 4- INCH DIAMETER CONDUIT FOR UTILITY CABLES ENTRANCE. UTILITY LANDING LUGS SHALL BE UL LISTED AND SHALL ACCOMMODATE #6 350 KCMIL CONDUCTORS.
 9. THE CUSTOMER COMPARTMENT DOOR SHALL BE HINGED ON THE LEFT HAND SIDE. A STAINLESS PAD- LOCKABLE HASP SHALL BE PROVIDED TO SECURE CUSTOMER COMPARTMENT. AN OUTDOOR RATED HEAVY DUTY COMBINATION LOCK SHALL BE PROVIDED TO LOCK THE CUSTOMER COMPARTMENT DOOR. A DOOR KEEPER SHALL BE PROVIDED TO KEEP THE DOOR IN AN OPEN POSITION. A PRINT POCKET SHALL BE PROVIDED ON THE INSIDE OF THE DOOR IN A WEATHERPROOF SLEEVE. REQUIRED UL LABELING SHALL BE LOCATED ON THE INSIDE OF THE CUSTOMER DOOR. DISTRIBUTION AND CONTROL EQUIPMENT SHALL BE BEHIND AN INTERNAL DEAD-FRONT DOOR WITH A QUARTER-TURN SECURING LATCH AND SHALL BE HINGED TO OPEN MORE THAN 90 DEGREES. THE DEAD-FRONT DOOR SHALL BE HINGED ON THE SAME SIDE AS THE CUSTOMER SECTION DOOR.
 10. ALL DISTRIBUTION AND CONTROL EQUIPMENT SHALL BE FACTORY WIRED USING 600 VOLT WIRE SIZED TO NEC AND UL REQUIREMENTS.
 11. THE SERVICE PEDESTAL SHALL BE RATED FOR OPERATION AT 10K MINIMUM (AIC) AMPS INTERRUPTING CAPACITY. THE PROVIDED DOCUMENTATION SHALL LIST CIRCUIT BREAKER COMBINATIONS AND THOSE TO BE USED FOR DE-RATED OPERATION FOR SERIES RATINGS. CIRCUIT BREAKERS SHALL BE PERMANENTLY LABELED WITH ENGRAVED NAME PLATES.
 12. THE PANEL SHALL CONTAIN AS A MINIMUM A 50 AMP BREAKER PER EACH SERVICE (TRAFFIC SIGNAL, LUMINAIRE, AND ITS IF ITS EQUIPMENT IS INSTALLED ON PROJECT.)
 13. A DISCONNECT SHALL BE INSTALLED AT THE SERVICE POLE. WIRES FROM POWER COMPANY SHALL BE BLACK FOR LINE (HOT) AND WHITE FOR NEUTRAL.
 14. PHOTO CELL SHALL BE REQUIRED IF THE PROJECT WILL INSTALL LUMINAIRES AND/OR ILLUMINATED STREET NAME SIGNS.
 15. THE SERVING UTILITY SHALL BE CONSULTED FOR REQUIREMENTS BEFORE ORDERING OR INSTALLING EQUIPMENT.
 16. POWER SERVICE PEDESTAL, AS SPECIFIED IN THE PROJECT PLANS, WILL BE MEASURED AS A UNIT PER EACH.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
POWER SERVICE PEDESTAL	
PROJ. NO.:	PRELIMINARY
COUNTY:	NOT FOR CONSTRUCTION
FILENAME: Final TSDs 3.6.2019.dgn	WORKING NUMBER
DATE	SHEET NUMBER
REVISION	TSD-7A

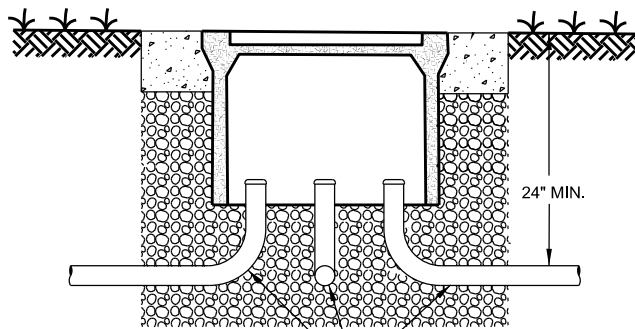
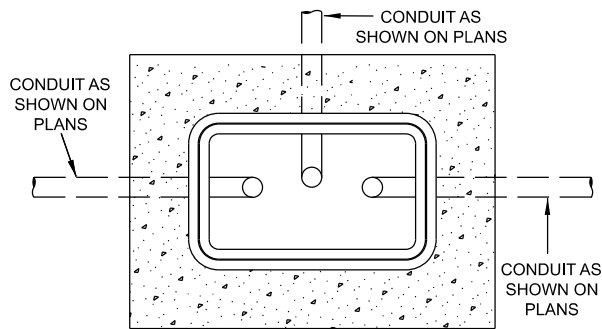


NOMINAL MINIMUM DIMENSIONS (W x L x D)

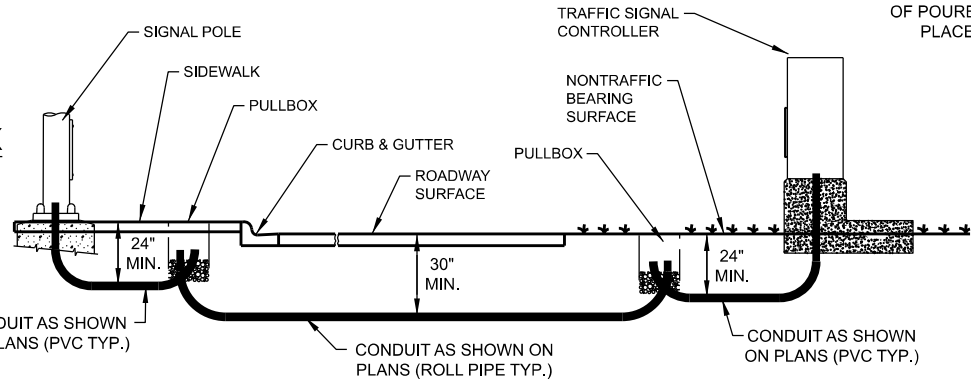
DIM	TYPE 1	TYPE 2	TYPE 3
W	11"	13"	17"
L	18"	24"	30"
D	12"	18"	24"

COLLARS AND GRAVEL UNDER PULLBOX REQUIRED FOR ALL TYPES OF PULLBOXES

- PULLBOX NOTES:
1. GRADE LEVEL PULL BOX, ENCLOSURES, STRUCTURAL JUNCTION BOXES AND COVERS SHALL MEET THE REQUIREMENTS OF SUBSECTION 722.06 OF SPECS. ALL PULLBOXES SHALL BE TIER 22 = 22,500-POUND DESIGN LOAD, 33,750-POUND TEST LOAD.
 2. IN GENERAL, TYPE 2 BOXES ARE USED FOR CORNERS WHERE SIGNAL CONDUIT UNDER ROADWAY AND TO SIGNAL POLE MEET, TYPE 3 BOXES ARE USED AT CONTROLLER CORNER WHERE ADDITIONAL ROOM FOR EXTRA CONDUIT IS REQUIRED.
 3. LOGOS SHALL READ TRAFFIC, SIGNAL, OR TRAFFIC SIGNAL.
 4. PULLBOXES SHALL NOT BE LOCATED IN THE ROADWAY, SIDEWALK, DRIVEWAY OR OTHER PATHWAY SURFACES UNLESS SPECIFICALLY REQUIRED ON THE PLANS. THEY SHALL NOT BE LOCATED IN DRAINAGE COLLECTION AREAS AND LOCATIONS WHERE DRAINAGE RUNOFF OCCURS SHOULD BE AVOIDED WHENEVER POSSIBLE.
 5. THE FINAL GRADE OF PULLBOX TOP SHALL BE FLUSH WITH ADJACENT MATERIAL WHEN THEY MUST BE INSTALLED WITHIN SIDEWALKS, ISLANDS OR BARRIER WALLS. THE FINAL GRADE OF TOP LOCATED IN SOIL OR SODDED AREAS SHALL BE APPROXIMATELY ONE (1) INCH HIGHER THAN ADJACENT EARTH OR SODDED AREAS.

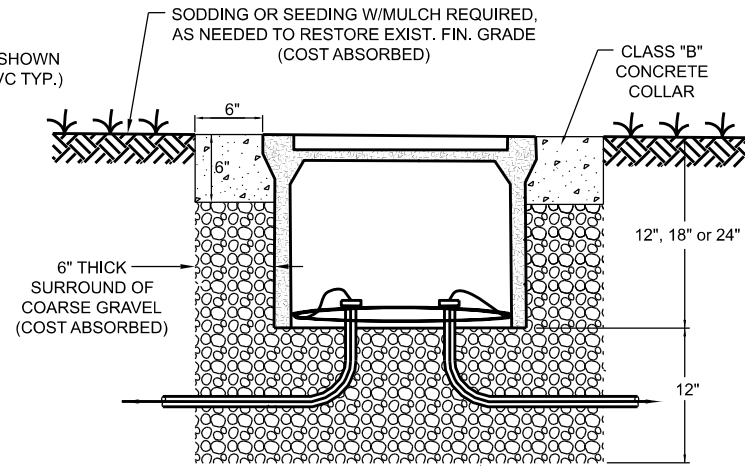
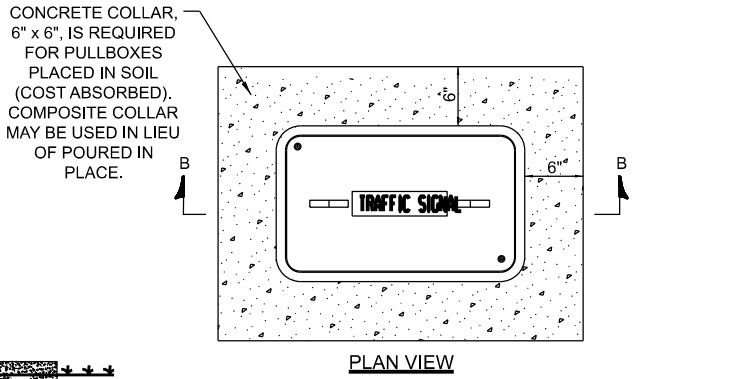


CONDUIT AT PULLBOX DETAIL



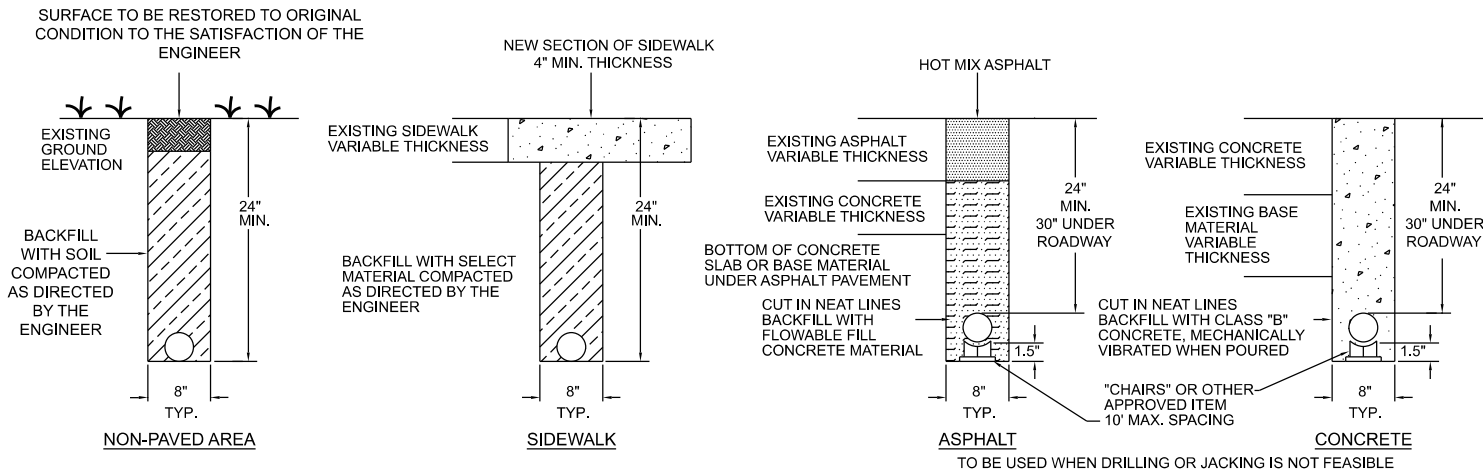
TYPICAL CONDUIT INSTALLATION SECTION

- CONDUIT NOTES:
1. TOP OF CONDUIT DEPTH SHALL BE A MINIMUM OF 24" UNLESS WHEN INSTALLED UNDER PAVED ROADWAY WHERE IT SHALL BE 30" MINIMUM DEPTH.
 2. CONDUIT BORED OR DRILLED UNDER RAILROAD SHALL BE 10' MIN. BELOW RR BED. CONDUIT BORED OR DRILLED UNDER STREAMS SHALL BE 5' MIN. BELOW STEAM BED. BORE LOGS WILL BE REQUIRED FOR EACH LOCATION.
 3. PULL TAPE SHALL BE INSTALLED INTO EACH EMPTY CONDUIT (COST ABSORBED).
 4. CONDUIT TO BE SEALED WITH DUCT SEALER ONCE CABLE IS INSTALLED. BLANK DUCT PLUGS SHALL BE INSTALLED IN EACH EMPTY CONDUIT.
 5. SAWCUT SIDEWALK AT EXISTING JOINTS AND REPLACE ENTIRE SECTION TO MATCH EXISTING MATERIAL. WHEN NEW SIDEWALK IS BEING CONSTRUCTED, CONDUIT, PULLBOX, AND POLE ARE TO BE INSTALLED BEFORE SIDEWALK IS POURED.
 6. TYPE I CONDUIT IS RIGID GALV. STEEL; TYPE IV CONDUIT IS PVC; FLEXIBLE CONDUIT AND ROLL PIPE ARE HDPE.
 7. ELECTRICAL SUBCONTRACTOR SHALL COORDINATE CONDUIT INSTALLATION WORK UNDER ROADWAY WITH ROADWAY CONSTRUCTION PHASING IN ORDER TO MINIMIZE JACKING.
 8. MATERIAL REMOVED THAT IS NOT SUITABLE FOR BACKFILL OR IS EXCESS SHALL BE DISPOSED OF BY THE CONTRACTOR (COST ABSORBED).
 9. CONDUIT WILL BE MEASURED PER LINEAR FEET TO THE NEAREST FOOT FROM CENTER TO CENTER OF PULL BOX AND/OR FOUNDATION. MEASUREMENT IN UNDERGROUND CONDUIT IS ONLY IN THE HORIZONTAL PLANE AND NO ADDITIONAL QUANTITY SHALL BE ADDED FOR CONDUIT DEPTH OR CHANGE IN ELEVATION OF THE CONDUIT. ANY ABOVE GROUND VERTICAL CONDUIT RUNS, AS INDICATED IN THE PLANS, SHALL BE MEASURED PER LINEAR FEET TO THE NEAREST FOOT.



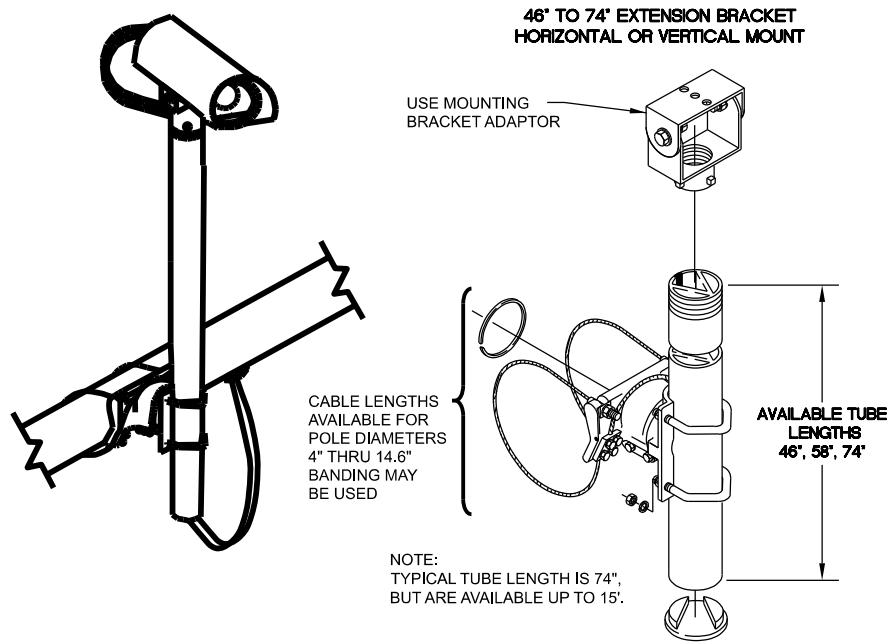
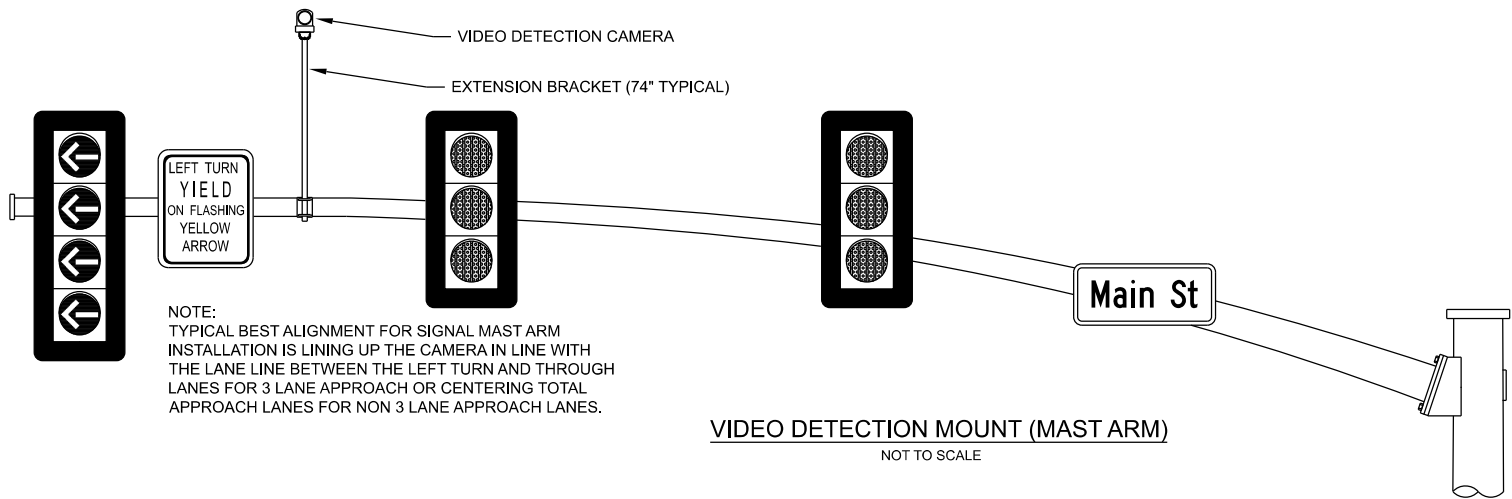
SECTION B-B

COLLAR AND GRAVEL DETAIL



CONDUIT TRENCHING DETAIL

DATE BY REVISION	MISSISSIPPI DEPARTMENT OF TRANSPORTATION		
	PULL BOX AND CONDUIT TRENCHING DETAILS		
	PROJ. NO.:	PRELIMINARY NOT FOR CONSTRUCTION	
	COUNTY:	WORKING NUMBER	
	FILENAME: Final TSDs 3.6.2019.dgn	SHEET NUMBER	
DESIGN TEAM	DATE	08/01/19-03-06	TSD-8



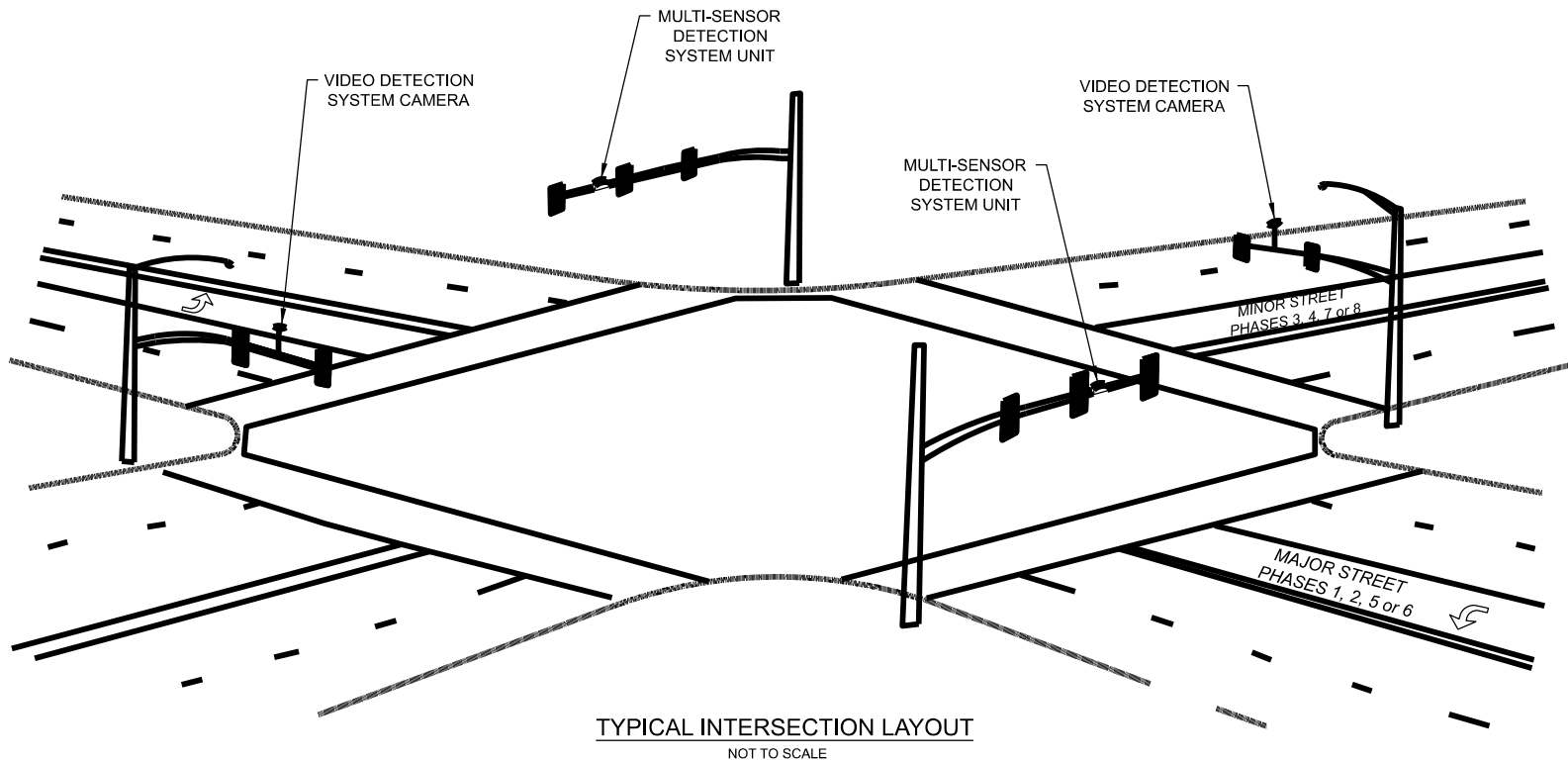
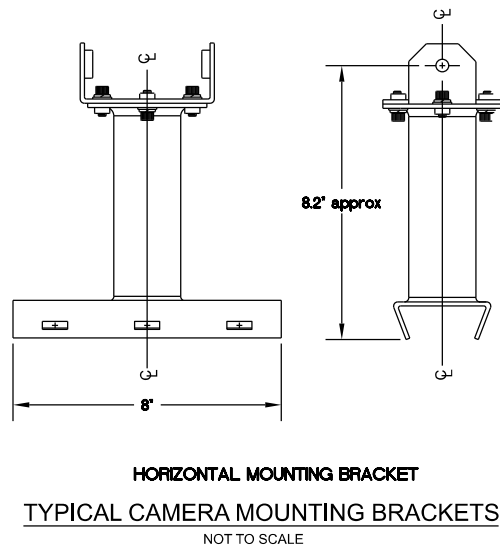
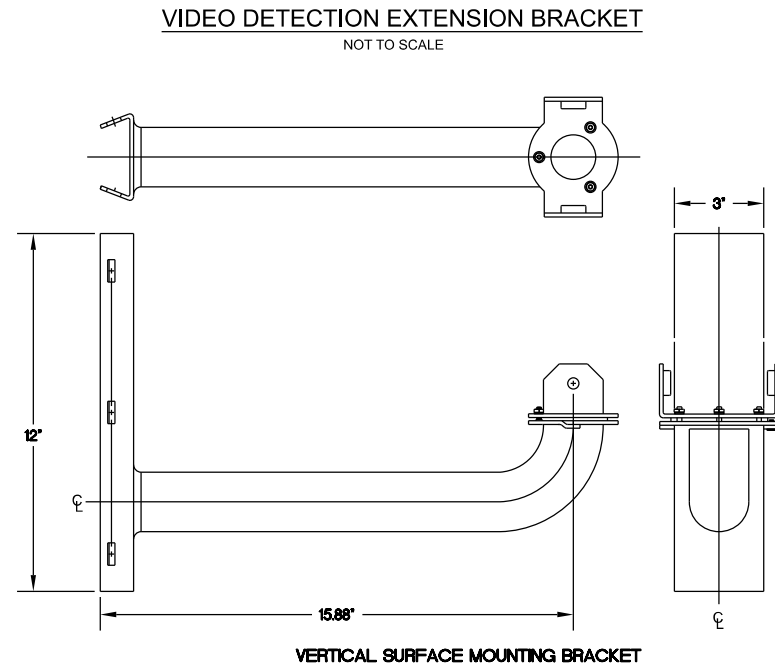
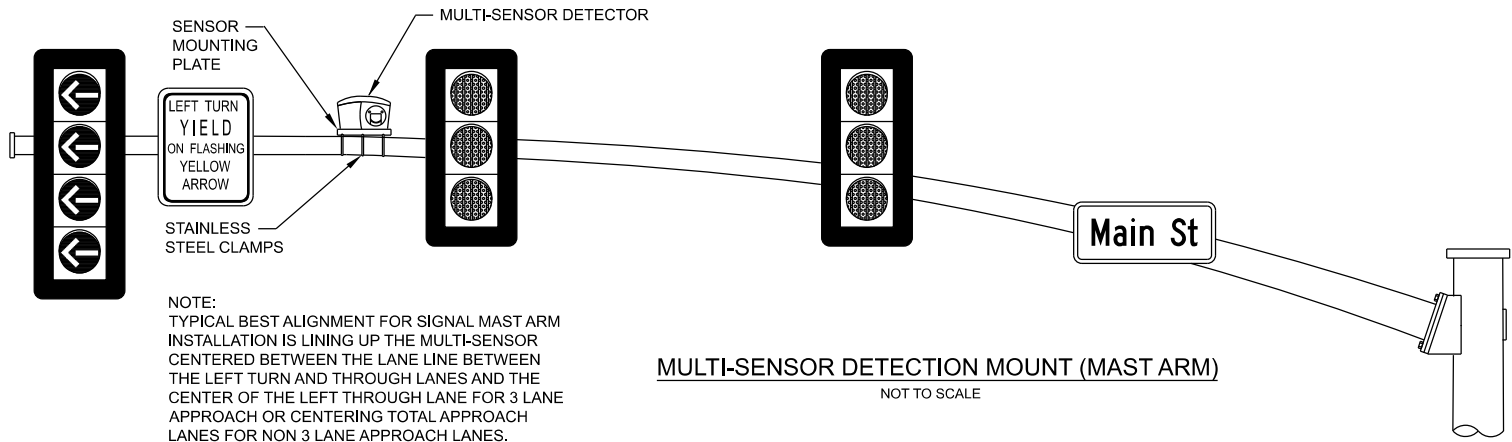
GENERAL NOTES:

1. TYPE 1 VIDEO VEHICLE DETECTION (VVD) WILL PROVIDE PRESENCE OR PULSE DETECTION OF VEHICLES, BICYCLES, AND PEDESTRIANS FOR TRAFFIC SIGNAL CONTROLLER INPUTS. THERE ARE TWO VARIATIONS OF TYPE 1 VIDEO VEHICLE DETECTION: TYPE 1A CAMERA WITH INDEPENDENT VIDEO DETECTION PROCESSOR, TYPE 1B A SINGLE INTEGRATED CAMERA WITH VIDEO DETECTION PROCESSOR. THE WORK SHALL CONSIST OF PROVIDING ALL LABOR, MATERIALS, EQUIPMENT, AND INCIDENTALS NECESSARY TO FURNISH, INSTALL, AND TEST THE VIDEO VEHICLE DETECTION EQUIPMENT, COMPLETE AND READY FOR SERVICE.

TYPE 2 VIDEO VEHICLE DETECTION (VVD) WILL PROVIDE PRESENCE OR PULSE DETECTION OF VEHICLES, BICYCLES, AND PEDESTRIANS FOR TRAFFIC SIGNAL CONTROLLER INPUTS. TYPE 2 VIDEO VEHICLE DETECTION SHALL BE DESIGNED TO BE SPAN WIRE MOUNTED. THE WORK SHALL CONSIST OF PROVIDING ALL LABOR, MATERIALS, EQUIPMENT, AND INCIDENTALS NECESSARY TO FURNISH, INSTALL, AND TEST THE VIDEO VEHICLE DETECTION EQUIPMENT, COMPLETE AND READY FOR SERVICE.

THE MULTI-SENSOR VEHICLE DETECTION (MSVD) WILL PROVIDE DETECTION OF VEHICLES ON A ROADWAY USING A MULTI-SENSOR DETECTION FOR TRAFFIC SIGNAL CONTROLLER INPUTS. THE MULTI-SENSOR SHALL UTILIZE TWO (2) DIFFERENT SENSORS OF DIFFERENT TECHNOLOGIES, VIDEO IMAGING AND RADAR, TO DETECT AND TRACK VEHICLES. THE MODULE SHALL PROCESS INFORMATION FROM BOTH VIDEO IMAGING AND RADAR SENSORS SIMULTANEOUSLY IN REAL-TIME. THE WORK SHALL CONSIST OF PROVIDING ALL LABOR, MATERIALS, EQUIPMENT, AND INCIDENTALS NECESSARY TO FURNISH, INSTALL, AND TEST THE MULTI-SENSOR VEHICLE DETECTION EQUIPMENT, COMPLETE AND READY FOR SERVICE.

2. INSTALL VIDEO DETECTION PROCESSOR UNIT(S) INSIDE CONTROLLER CABINET UNLESS OTHERWISE NOTED ON PLANS.
3. AIM THE CAMERA SO THE HORIZON IS NOT VISIBLE IN THE FIELD OF VIEW.
4. INSURE WATER -TIGHT CABLE ENTRY AND EXIT POINTS FOR CONNECTIONS.
5. CONTRACTOR TO USE MANUFACTURE'S SUPPLIED OR APPROVED CABLE, CONNECTIONS AND MOUNTING HARDWARE.
6. DETECTION SUPPLIER TO ASSIST CONTRACTOR WITH INFORMATION ON BEST MOUNTING POSITION (LOCATION ON ARM, MOUNTING HEIGHT, ETC.).
7. POWER AND VIDEO / MUTI-SENSOR CABLE PROVIDED SHALL BE AS RECOMMENDED BY THE MANUFACTURER FOR OPTIMAL VIDEO DETECTION PERFORMANCE. THE POWER AND VIDEO / MUTI-SENSOR CABLE MAY BE INSTALLED UNDER THE SAME OUTER JACKET. THE CABLES WILL BE MEASURED BY THE LINEAR FOOT, MEASURED HORIZONTALLY ALONG THE CONDUIT, MESSENGER CABLE OR MAST ARM AND VERTICALLY ALONG THE POLE.
8. SURGE PROTECTION DEVICES SHALL BE PROVIDED FOR ALL NEW OR ADDED VIDEO DETECTION DEVICES AS RECOMMENDED BY THE MANUFACTURER.
9. ALL DETECTION UNITS SHALL BE NETWORKABLE DEVICES AND BE ON THE MDOT NETWORK IF NOTED ON PLANS.



DATE	BY	REVISION	MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
			VIDEO/ MULTI-SENSOR DETECTION INSTALLATION FOR TRAFFIC SIGNALS	
			PROJ. NO.:	PRELIMINARY
			COUNTY:	NOT FOR CONSTRUCTION
			FILENAME: Final TSDs 3.6.2019.dgn	WORKING NUMBER
DESIGN TEAM	DATE	04/01/19-03-06	SHEET NUMBER	TSD-9V

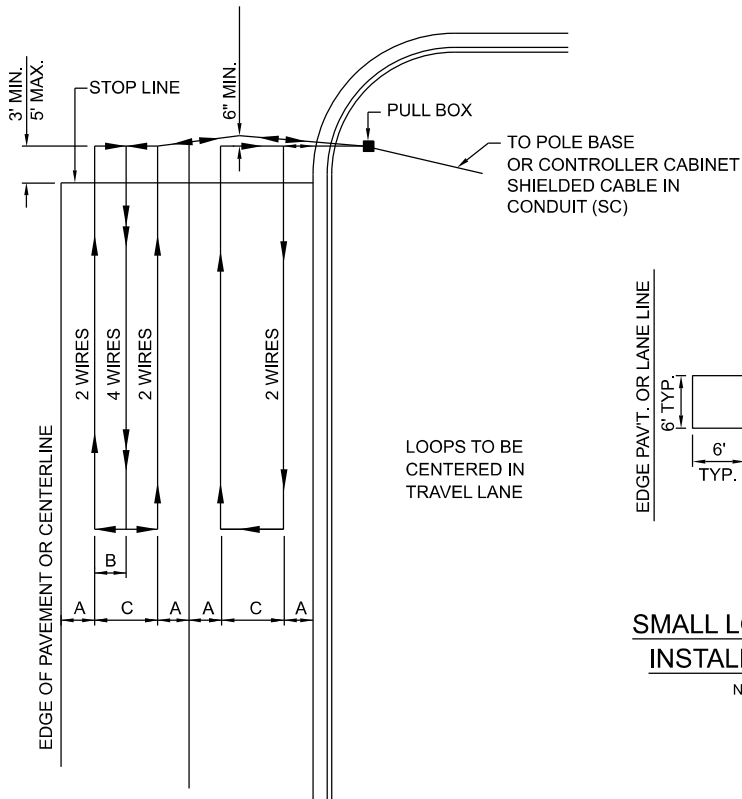
DIMENSION CHART			
LANE WIDTH	"A"	"B"	"C"
10'	2.5'	2.5'	5'
11'	2.5'	3'	6'
12'	3'	3'	6'
14'	3'	4'	8'

MINIMUM LOOP SEPARATION WHEN NO LANE LINES ARE PRESENT IS 3'

WIRE CHART	
LOOP	URNS (# OF WIRES)
6' x 6'	3
6' x <20'	3
6' x >20'	2
6' x 50' QUAD	2-4-2

PAY QUANTITY CHART	
LOOP	LINEAR FEET
6' x 6'	24
6' x 50' BOX	112
6' x 50' QUAD	162

PLUS HOMERUN (SEE NOTE 1.)



LARGE LOOP DETECTOR
INSTALLATION DETAIL

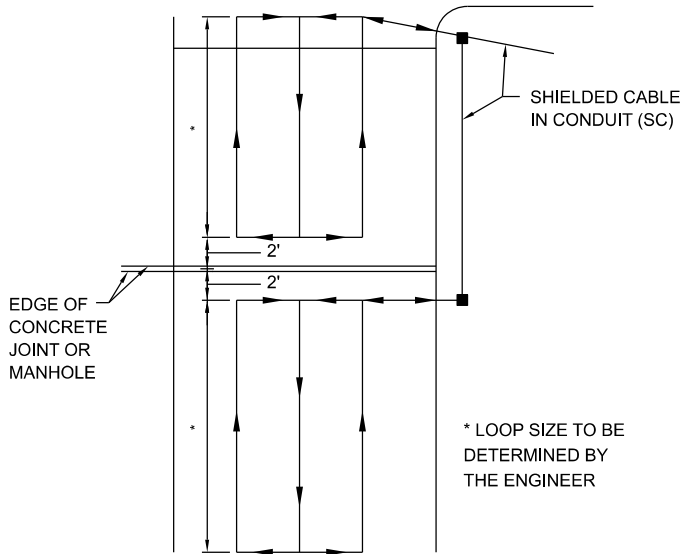
NOT TO SCALE

SMALL LOOP DETECTOR
INSTALLATION DETAIL

NOT TO SCALE

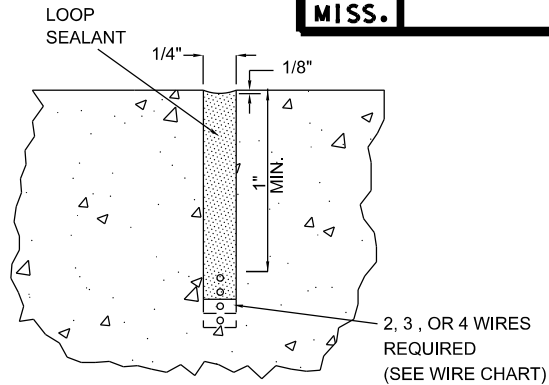
NOTES:

1. VEHICLE LOOP ASSEMBLY WILL BE MEASURED BY THE LINEAR FOOT COMPUTED HORIZONTALLY, REGARDLESS OF NUMBER OF TURNS, IN WHICH THE LOOP WIRE IS INSTALLED AND WILL INCLUDE THE LOOP LEAD-IN TO THE PULL BOX. SHIELDED CABLE WILL BE MEASURED BY THE LINEAR FOOT, MEASURED HORIZONTALLY ALONG THE CONDUIT OR MESSENGER CABLE AND VERTICALLY ALONG THE POLE.
2. FOR NEW CONSTRUCTION OR OVERLAY, VEHICLE LOOP ASSEMBLIES SHALL BE INSTALLED IN THE TOP LAYER OF BINDER OR EXISTING SURFACE BEFORE THE FINAL SURFACE COURSE IS APPLIED.
3. NO LOOPS ARE TO BE INSTALLED THROUGH, OVER, OR UNDER TRANSVERSE CONCRETE JOINTS IN CONCRETE PAVEMENT, AND NO MANHOLES, INLETS, ETC. MAY BE LOCATED WITHIN A LOOP. IF ANY OF THE ABOVE ARE ENCOUNTERED THE LOCATION OF THE LOOP MAY BE VARIED SLIGHTLY AS DIRECTED BY THE ENGINEER. IF THE ABOVE ITEMS ARE UNAVOIDABLE, SMALLER LOOPS AS SHOWN BELOW MAY BE USED. SMALLER LOOPS USED TO REPLACE ONE LARGE LOOP MAY BE CONNECTED IN SERIES TO ONE CHANNEL.

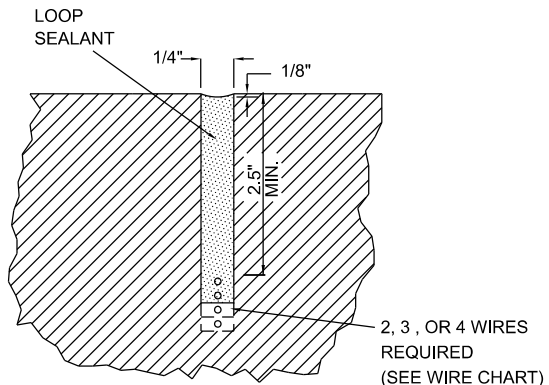


TYPICAL DETAIL OF LOOP DETECTOR
WHERE TRANSVERSE CONCRETE JOINTS,
MANHOLES, ETC. ARE ENCOUNTERED

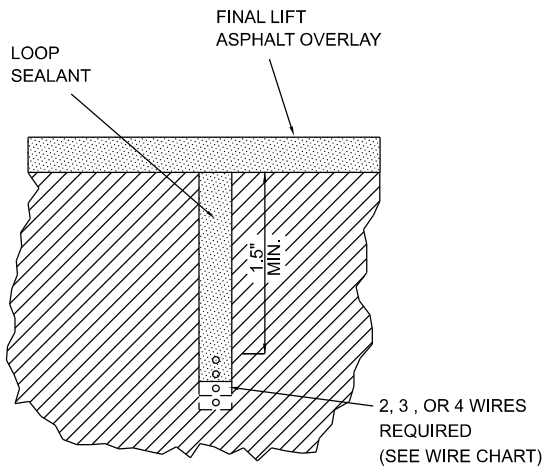
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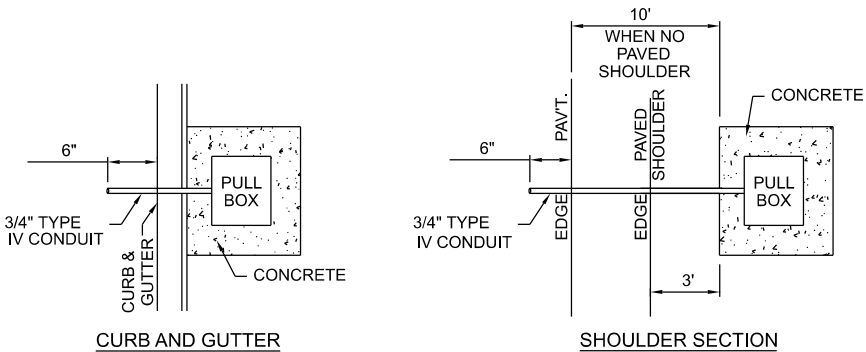
CONCRETE



IN PLACE ASPHALT

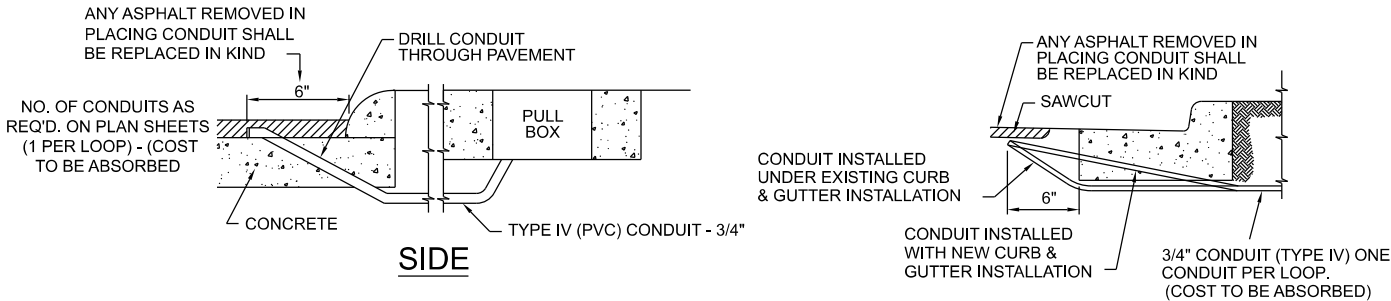


ASPHALT
(NEW CONSTRUCTION)



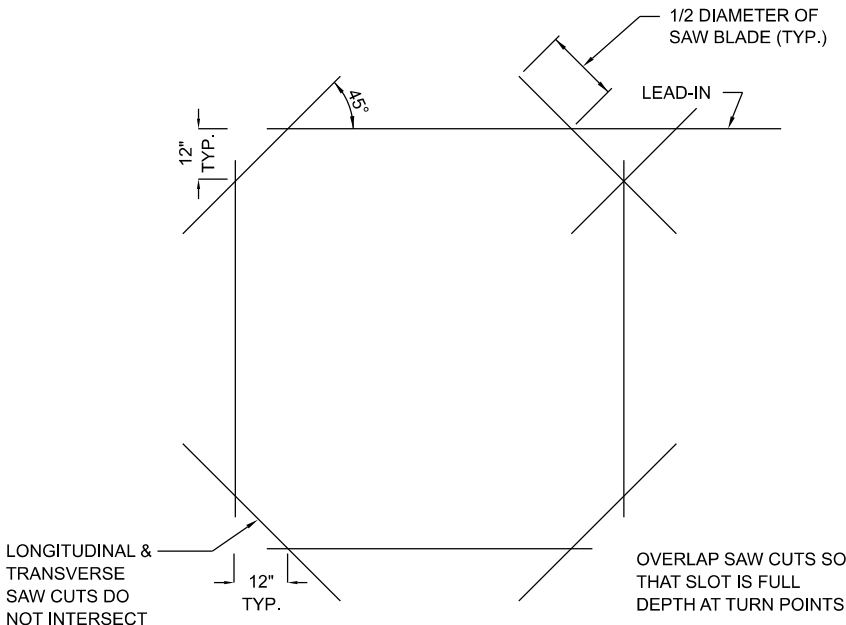
LOOP PULL BOX LOCATION DETAIL

NOT TO SCALE



HOMERUN CONDUIT INSTALLATION DETAIL

NOT TO SCALE



LOOP SLOT CONSTRUCTION DETAIL

NOT TO SCALE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

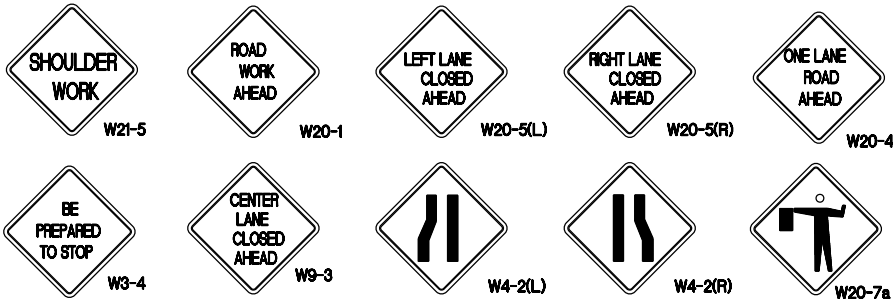
LOOP DETECTOR
DETAILS

PROJ. NO.:
COUNTY:

FILENAME: Final TSDs 3.6.2019.dgn
DATE: 08/01/19 BY: CAC

PRELIMINARY
NOT FOR
CONSTRUCTION
WORKING NUMBER
SHEET NUMBER
TSD-9L

SIGN LEGEND



- GENERAL NOTES:
1. ADDITIONAL ADVANCE WARNING SIGNS MAY BE NECESSARY. ANY ADDITIONAL SIGNS SHOULD BE INCLUDED UNDER PAY ITEM 618-A, MAINTENANCE OF TRAFFIC.
 2. POST MOUNTED SIGNS SHALL HAVE A 7' MINIMUM MOUNTING HEIGHT.
 3. PAYMENT FOR ALL SIGNS, CONES, DRUMS, CONCRETE BARRIERS, STEEL PLATES AND OTHER MATERIALS, BARRICADES, LABOR AND INCIDENTALS REQUIRED TO IMPLEMENT THE TRAFFIC CONTROL PLAN SHALL BE INCLUDED UNDER PAY ITEM 618-A, MAINTENANCE OF TRAFFIC.
 4. APPROACH SIDE TRAFFIC CONTROL TO BE USED WHEN WORK OCCURS ON EITHER THE APPROACH SIDE OR THE FAR SIDE OF THE INTERSECTION. FAR SIDE TRAFFIC CONTROL IS NOT NEEDED WHEN WORK IS CONFINED TO THE APPROACH SIDE ONLY.
 5. FOR A DIVIDED HIGHWAY SITUATION, A SECOND SET OF ADVANCE WARNING SIGNS SHALL BE ERECTED IN MEDIAN AREA (8' MIN. MEDIAN WIDTH REQUIRED).

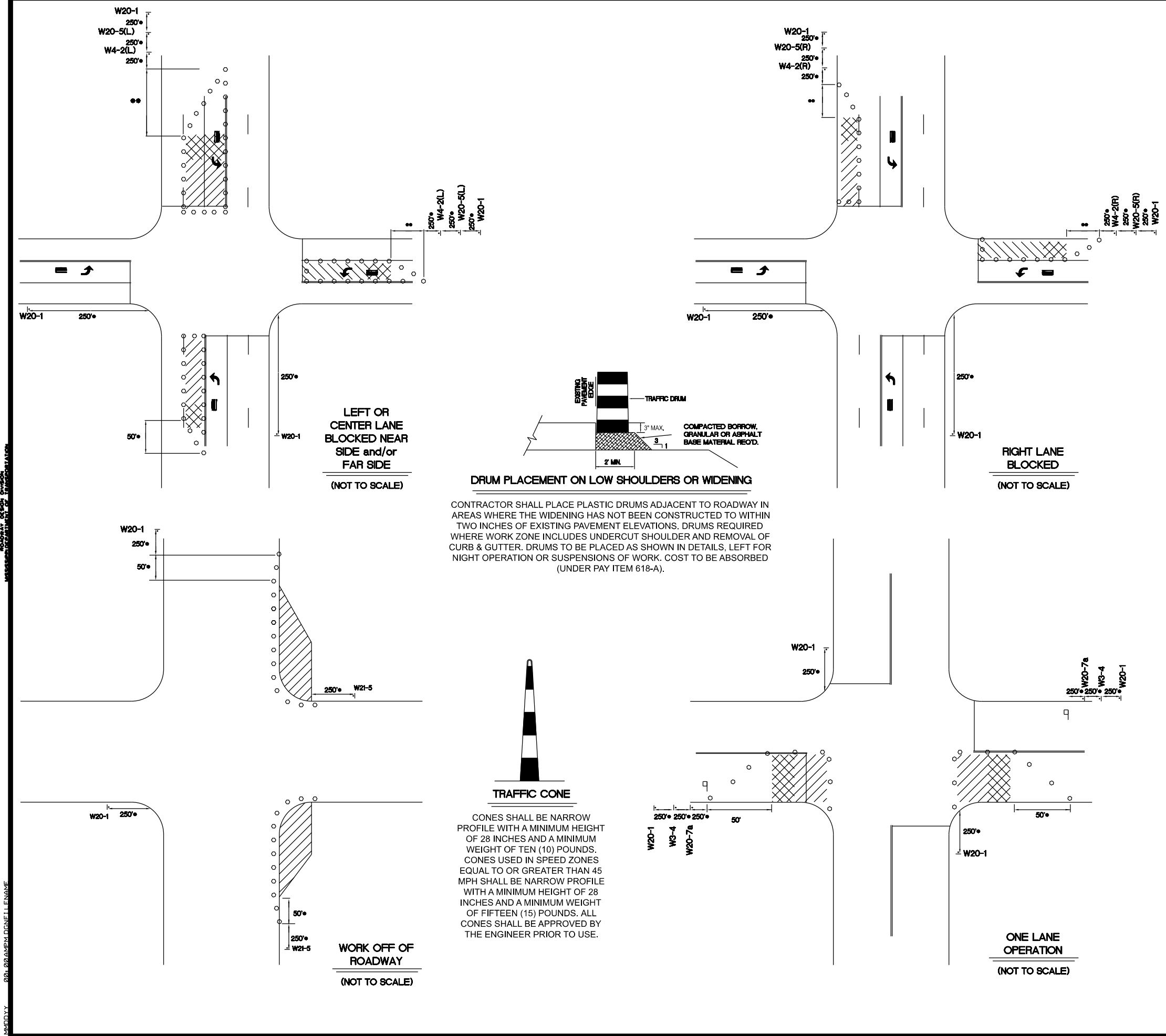
LEGEND

- DRUMS (30' MAXIMUM SPACING) - CONES SHALL BE NARROW PROFILE WITH A MINIMUM HEIGHT OF 28 INCHES AND A MINIMUM WEIGHT OF TEN (10) POUNDS. CONES USED IN SPEED ZONES EQUAL TO OR GREATER THAN 45 MPH SHALL BE NARROW PROFILE WITH A MINIMUM HEIGHT OF 28 INCHES AND A MINIMUM WEIGHT OF FIFTEEN (15) POUNDS. ALL CONES SHALL BE APPROVED BY THE ENGINEER PRIOR TO USE.
- W20-1 - SIGNS - SEE SIGN LEGEND MIN. SIZE 48" x 48", BLACK ON ORANGE BACKGROUND
- q FLAGGER WITH PADDLE - 18" STOP/SLOW PADDLES ACCEPTED AS PROPER TRAFFIC CONTROL DEVICES SHALL BE USED. HAND HELD FLAGS SHALL NOT BE FOR FLAGGING OPERATION.



- CONSIDERED MINIMUM DISTANCE - ENGINEER TO DETERMINE APPROPRIATE SPACING IN THE FIELD

•• SPEED LIMIT	BUFFER	TAPER LENGTH (Feet)
M.P.H.	FEET	(Per 12' Lane Shift)
20	115	80
25	155	125
30	200	180
35	250	245
40	305	320
45	360	540
50	425	600
55	495	660
60	570	720
65	645	780
70	730	840



LEFT OR
CENTER LANE
BLOCKED NEAR
SIDE and/or
FAR SIDE
(NOT TO SCALE)

DRUM PLACEMENT ON LOW SHOULDERS OR WIDENING

CONTRACTOR SHALL PLACE PLASTIC DRUMS ADJACENT TO ROADWAY IN AREAS WHERE THE WIDENING HAS NOT BEEN CONSTRUCTED TO WITHIN TWO INCHES OF EXISTING PAVEMENT ELEVATIONS. DRUMS REQUIRED WHERE WORK ZONE INCLUDES UNDERCUT SHOULDER AND REMOVAL OF CURB & GUTTER. DRUMS TO BE PLACED AS SHOWN IN DETAILS, LEFT FOR NIGHT OPERATION OR SUSPENSIONS OF WORK. COST TO BE ABSORBED (UNDER PAY ITEM 618-A).

TRAFFIC CONE

CONES SHALL BE NARROW PROFILE WITH A MINIMUM HEIGHT OF 28 INCHES AND A MINIMUM WEIGHT OF TEN (10) POUNDS. CONES USED IN SPEED ZONES EQUAL TO OR GREATER THAN 45 MPH SHALL BE NARROW PROFILE WITH A MINIMUM HEIGHT OF 28 INCHES AND A MINIMUM WEIGHT OF FIFTEEN (15) POUNDS. ALL CONES SHALL BE APPROVED BY THE ENGINEER PRIOR TO USE.

WORK OFF OF
ROADWAY
(NOT TO SCALE)

ONE LANE
OPERATION
(NOT TO SCALE)

BY
REVISION

DATE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
(TYPICAL SIGNAL INSTALLATION)

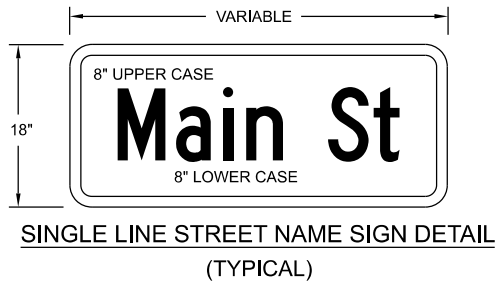
PROJ. NO. :
COUNTY :

FILENAME: Final TSDs 3.6.2019.dgn
DESIGN TEAM: CACEDD
DATE: 04/2019-03-06

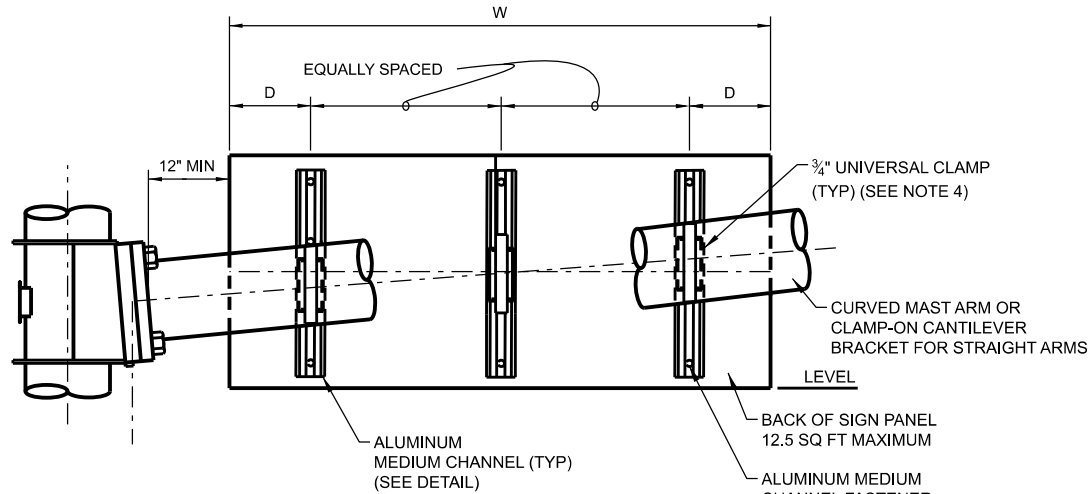
PRELIMINARY
NOT FOR
CONSTRUCTION

WORKING NUMBER

SHEET NUMBER
TSD-10



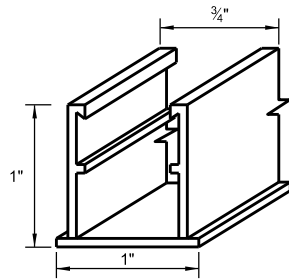
8" UPPER CASE & LOWER CASE LETTERS; SERIES "C"
THICKNESS = 0.1"
WHITE LETTERS AND BORDER ON GREEN TYPE XI PRISMATIC RETROREFLECTIVE SHEETING
DIRECTLY APPLIED RETROREFLECTIVE SHEETING ONLY. DIGITALLY PRINTING WILL NOT BE ALLOWED.



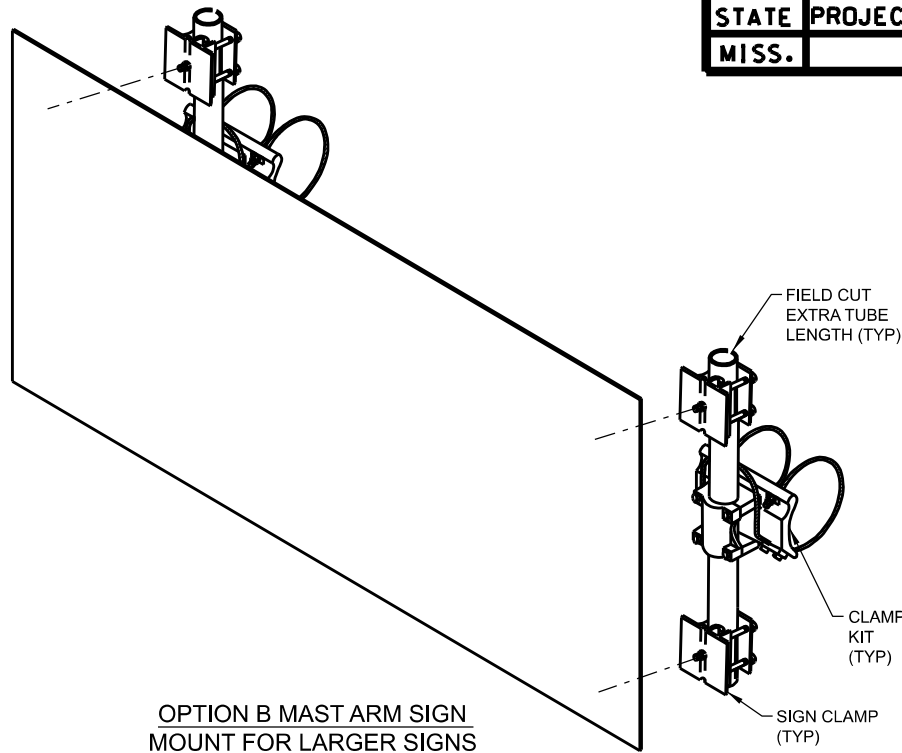
OPTION A MAST ARM SIGN MOUNT
(SEE TABLE 1)
(SEE NOTE 4)

TABLE 1
DIMENSIONS OF OPTION A

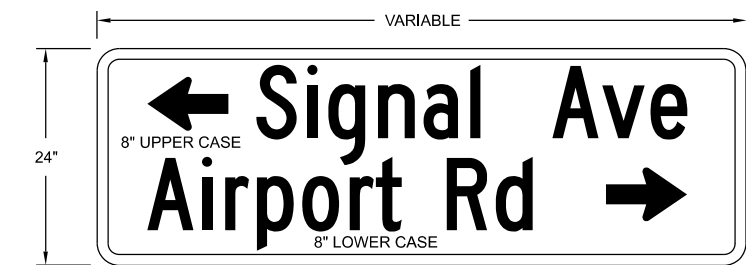
WIDTH OF SIGN (W, INCH)	D (INCH)	NUMBER OF MEDIUM CHANNELS
$W \leq 48$	$W/4$	2
$48 < W \leq 96$	12	3



ALUMINUM MEDIUM CHANNEL DETAIL

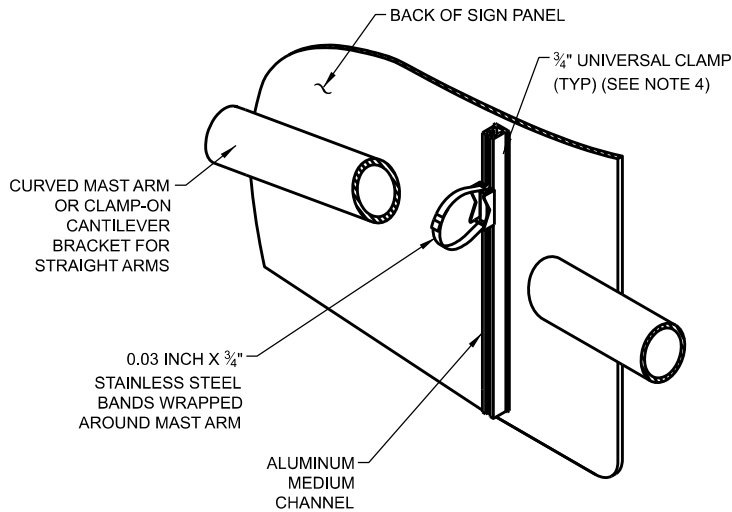


OPTION B MAST ARM SIGN MOUNT FOR LARGER SIGNS



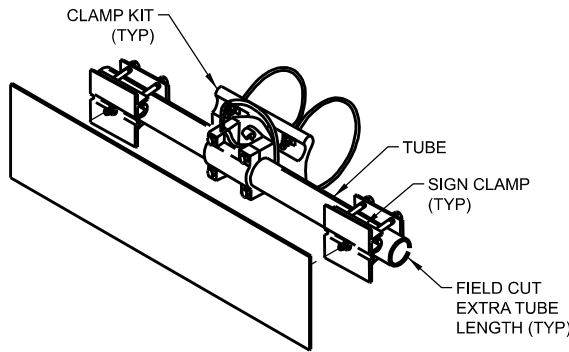
DOUBLE LINE STREET NAME SIGN DETAIL
(TYPICAL)

8" UPPER CASE & LOWER CASE LETTERS; SERIES "C"
THICKNESS = 0.1"
WHITE LETTERS AND BORDER ON GREEN TYPE XI PRISMATIC RETROREFLECTIVE SHEETING
DIRECTLY APPLIED RETROREFLECTIVE SHEETING ONLY. DIGITALLY PRINTING WILL NOT BE ALLOWED.
ROADWAY TO LEFT ON TOP, ROADWAY TO RIGHT ON BOTTOM
JUSTIFY TEXT AND ARROW LEFT AND RIGHT ON SIGN



OPTION A INSTALLATION DETAIL

- GENERAL NOTES:
- SEE TSD-3 FOR ADDITIONAL MAST ARM INFORMATION.
 - ALL MATERIALS FOR TRAFFIC AND STREET NAME SIGNS SHALL BE NEW AND MEET THE REQUIREMENTS OF SECTION 721 OF THE STANDARD SPECIFICATIONS.
 - PROVIDE MINIMUM 17 FT CLEARANCE FROM THE BOTTOM OF THE SIGN OR SIGN MOUNTING ASSEMBLY TO THE HIGHEST POINT ON THE ROADWAY SURFACE UNDER THE SIGN.
 - ADJUST UNIVERSAL CLAMP LOCATION TO LEVEL SIGN. OPTION B SHALL BE USED WHEN CURVED SECTION OF MAST ARM WILL NOT ALLOW FOR LEVEL INSTALLATION.
 - TRAFFIC SIGN AND STREET NAME SIGN WILL BE MEASURED BY THE SQUARE FOOT, WHICH MEASUREMENT BEING INCLUSIVE OF ALUMINUM SIGN BLANK, APPLIED REFLECTIVE SHEETING, MOUNTING BRACKETS AND BANDING MATERIALS AND BEGIN INCLUSIVE OF ALL MATERIALS, WORK AND SERVICES NECESSARY FOR A PROPERLY CONSTRUCTED SIGN.
 - ATTACH THE ALUMINUM MEDIUM CHANNEL TO SIGN PANEL WITH STAINLESS STEEL BOLTS, TAPPING SCREWS OR POP RIVETS AS SPECIFIED. USE ADHESIVE ONLY WHEN SHOP APPLIED. NO FIELD ADHESIVE IS ALLOWED.



OPTION B MAST ARM SIGN MOUNT FOR SMALL SIGNS

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

STREET NAME SIGN DETAILS

PROJ. NO. :
COUNTY:

FILENAME: Final TSDs 3.6.2019.dgn
DISCH TEAM

PRELIMINARY
NOT FOR
CONSTRUCTION
WORKING NUMBER

SHEET NUMBER
TSD-11

FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Erosion Control.dwg ECN1 Jul 09, 2020 - 10:19pm COUNTRY: FORREST DESIGNED BY: DBG DRAWN BY: JGK CHECKED BY: DBG DESIGN TEAM: THE WALKER ASSOCIATES, PLLC

STORM WATER POLLUTION PREVENTION PLAN

PROJECT NUMBER: 178-11
COUNTY:Forrest

SITE INFORMATION

The construction at this site will disturb 6.0 acres. This site has a medium erosion hazard due to a silty clay (cl) soil type and slopes. It is in the Pascagoula Watershed Basin. The receiving stream, Gordon's Creek, from this site is not impaired.

SEDIMENT AND EROSION CONTROL REQUIREMENTS

VEGETATIVE CONTROLS: Permanent erosion controls (soil preparation, fertilizing, seeding, and mulching, sodding, and matting) will be placed as shown on the plans. Any disturbed areas laid-up for over 30 days will be seeded within 7 calendar days unless otherwise directed by the engineer at no additional cost to the project.

Buffer zones shall be maintained between land disturbing activities and perennial water bodies. Appropriate buffers will be maintained, as construction allows, and re-established when construction is complete near environmentally sensitive areas. Buffer zones are 5-feet from streams and 15-feet from the Right-of-Way.

Topsoil should be stockpiled and used in areas that will be re-vegetated. When final grade is reached it should be distributed to a minimum of 2 inches of 3:1 slopes and 4 inches on flatter slopes.

Heavy equipment use in areas to be re-vegetated should be avoided. If compaction cannot be avoided, the top 4 inches of the soil bed should be tilled before re-vegetation. Any necessary fertilizer or other soil amendments should be added during the tilling process.

STRUCTURAL CONTROLS: Temporary silt fence, straw wattles, sandbags, paved ditches, and riprap will be placed as shown on the plans. No linear areas of ten (10) or more disturbed acres are involved in this project. Therefore, no sediment basins are required.

Construction entrances/exits shall be installed wherever traffic will be leaving a construction site and moving directly onto a paved public road.

Storm drain inlets-inlets that could receive storm water from construction activities shall be protected by surrounding or covering with a filter material until final stabilization has been achieved. Protect the inlet with silt fence, wattles, and/or sandbags to prevent sediment from entering before the curb and gutter is placed. Block and gravel curb inlet filters or sand bags may be necessary to prevent sediment from entering after the curb gutter is placed.

A concrete wash out area will be constructed in accordance to EPA Guidelines in areas approved the Engineer for concrete trucks to wash the mixer chutes and a memo will be sent to the concrete supplier to use a minimum amount of water. Drivers will be instructed to return any materials to the concrete batch plant and complete final washing procedures at that location.

HOUSEKEEPING PRACTICES: The contractor is reminded of his responsibilities as outlined in Section 107 of the Specifications which include equipment maintenance and repair, concrete chute wash-off, trash/debris, storage of chemicals and other toxic materials, and sanitary facilities. Storm water pollution prevention best management practice techniques are to be applied throughout the construction of this project the cost of which is to be included in regular bid items.

POST-CONSTRUCTION CONTROL MEASURES: Upon completion of construction, vegetative growth along the roadway foreslopes will provide a buffer zone for loose material originating from the roadway. Vegetative growth on the backslopes provides a buffer zone for loose material originating beyond the backslope. Flatter grades and ditch treatments minimize erosion. Paved ditches and flumes along with rock outlets are required.

IMPLEMENTATION SEQUENCE

1. Install silt fence, wattles, and other sedimentation controls as indicated on construction plans and standard detail sheets.
2. Build proper cross sections, grading the site and install silt fence around topsoil stockpiles. Install culverts/inlets with inlet/outlet protection (as indicated on plans).
3. Plant needed temporary vegetation on disturbed or problematic areas.
4. Construct roadway sections.
5. Plant permanent vegetation in all disturbed areas.
6. After site is stabilized, remove all temporary measures, vegetating these areas.

MAINTENANCE PLAN

The contractor and engineer will inspect all disturbed areas, erosion and sediment controls after each significant rainfall but not less than once per week and record the results of this inspection on the “Monthly Inspection Report and Certification Form for Erosion and Sediment Controls” included with the permit. The monthly inspection reports and this SWPPP will be available for inspection during construction and submitted to MDEQ with the Notice of Termination as required. The contractor shall make needed repairs to installed erosion control items weekly and after each significant rainfall as necessary. This includes, but is not limited to, removing sediment, repairing, reinstalling, or replacing silt fence, straw wattles, or other temporary erosion control measures, repairing washes, ditches, or other permanent erosion control devices.

DOCUMENTATION AND COMPLIANCE

SMALL CONSTRUCTION GENERAL PERMIT (SCGP): Construction Activities that disturb one acre to less than five acres require coverage under the Small CGP. The Small CGP requires no submittals to the MDEQ unless specifically requested. The contractor is responsible for all documentation on the project and for keeping it on file for at least three (3) years. Some examples of acceptable documentation include the Daily Diary/Log and Rainfall Documentation.

LARGE CONSTRUCTION GENERAL PERMIT (LCGP): Construction activities that disturb five acres or more require coverage under the Large CGP. The Contractor will have the responsibility for permit compliance in accordance with ACT 7 and ACT 9 for Large CGP. Additionally, the Contractor will conduct and maintain inspection records as required by permits. The Prime Contractor will be required to complete and submit the PRIME CONTRACTOR CERTIFICATION form in the Large Construction Forms Package to DEQ with a copy to the Engineer and State Aid prior to concurrence to award by State Aid.

The Prime Contractor will also be required to submit a written Pollution Prevention Plan (PPP) at the preconstruction conference as per S-107.22.5.

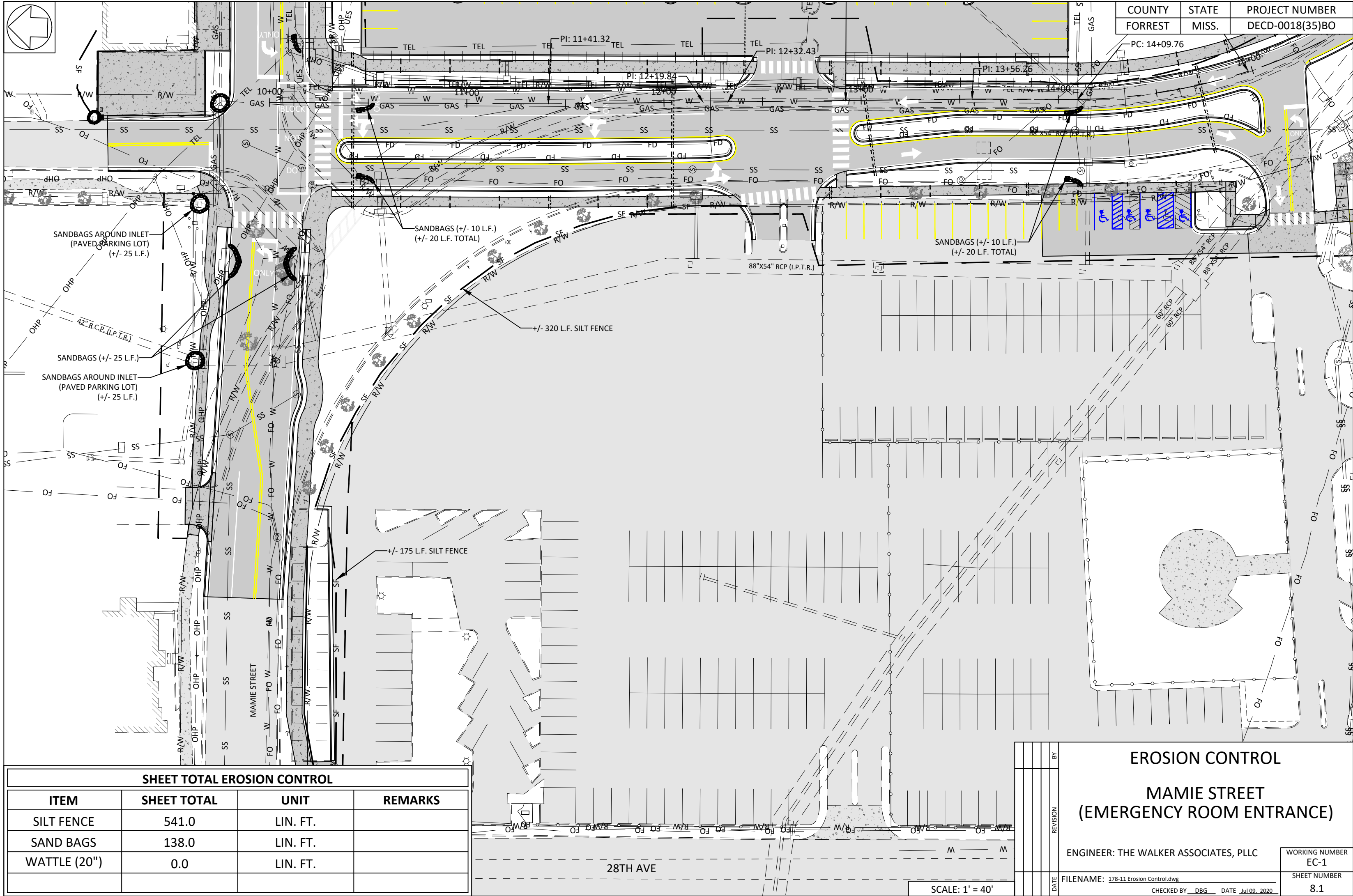
COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD-0018(35)BO

GENERAL EROSION CONTROL NOTES:

1. EROSION/SEDIMENT CONTROLS SHALL BE PLACED AND MAINTAINED USING BEST MANAGEMENT PRACTICES (BMP'S) AS OUTLINED IN THE MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY'S “PLANNING AND DESIGN MANUAL FOR THE CONTROL OF EROSION, SEDIMENT, AND STORMWATER”.
2. ALL EROSION CONTROLS SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS.
3. TEMPORARY EROSION AND SEDIMENT CONTROLS SHALL B E INSTALLED PRIOR TO THE START OF ANY WORK. IF REQUIRED TO REMOVE THE CONTROLS TEMPORARILY DUE TO CONSTRUCTION ACTIVITIES, THE TEMPORARY EROSION CONTROLS SHALL BE REINSTALLED IMMEDIATELY ONCE THOSE ACTIVITIES ARE COMPLETED OR AT THE END OF THE WORK DAY (WHICHEVER COMES FIRST).
4. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EROSION CONTROLS THROUGHOUT THE DURATION OF THE PROJECT. THE ENGINEER WILL HAVE THE AUTHORITY TO SUSPEND ALL WORK AND/OR WITHHOLD PAYMENTS FOR FAILURE OF THE CONTRACTOR TO MAINTAIN PROPER MAINTENANCE OF THE EROSION CONTROL BEST MANAGEMENT PRACTICES.
5. ALL EQUIPMENT REPAIR AND MAINTENANCE SHALL BE DONE OFFSITE.
6. RECEPTACLES SHALL BE PROVIDED TO PROPERLY DISPOSE OF ALL TRASH AND WASTE. ALL CONSTRUCTION DEBRIS SHALL BE PICKED UP AT THE END OF EACH DAY AND SHALL BE REMOVED COMPLETELY FROM THE SITE AT THE END OF THE PROJECT.
7. ACCUMULATED SEDIMENT SHALL B E REMOVED FROM CONTROLS WHEN IT REACHES ½ THE HEIGHT OF THE CONTROL. THE SEDIMENT SHALL BE PROPERLY DISPOSED OF SO AS NOT TO CAUSE SEDIMENTATION IN ANOTHER LOCATION.
8. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF SEDIMENT THAT MIGRATES INTO THE STORM DRAINAGE SYSTEM.
9. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ANY SEDIMENT OR CONSTRUCTION DEBRIS THAT IS TRACKED ONTO ADJACENT PAVED AREAS, ADJACENT STREETS SHALL BE KEPT CLEAN THROUGHOUT CONSTRUCTION AND SHALL BE CLEANED WITH A STREET SWEEPER OR SIMILAR TECHNIQUE IMMEDIATELY UPON DISCOVERY OF SEDIMENT. WASHING THE STREET OR OTHER PAVED AREAS IS NOT AN ACCEPTABLE FORM OF CLEANING.
10. NATURAL VEGETATION SHALL BE MAINTAINED AND PROTECTED WHENEVER POSSIBLE.
11. TEMPORARY AND/OR PERMANENT VEGETATIVE PRACTICES SHALL BE IMPLEMENTED WITHIN SEVEN CALENDAR DAYS WHEN A DISTURBED AREA WILL B E LEFT UNDISTURBED FOR THIRTY DAYS OR MORE.
12. TEMPORARY EROSION AND SEDIMENT CONTROLS SHALL NOT BE REMOVED UNTIL PERMANENT EROSION CONTROLS (GRASS, LANDSCAPING, ETC.) ARE ESTABLISHED ON ALL DISTURBED AREAS. CONSTRUCTION WILL NOT BE CONSIDERED COMPLETE UNTIL ALL TEMPORARY EROSION CONTROLS ARE REMOVED AND PERMANENT EROSION CONTROLS ARE EFFECTIVELY ESTABLISHED.
13. THE CONTRACTOR SHALL BE REQUIRED TO FURNISH ALL MATERIALS AND PERFORM ALL WORK FOR THE PROPER INSTALLATION. MAINTENANCE AND REMOVAL OF TEMPORARY EROSION CONTROL MEASURE NECESSARY TO CONTROL SILTATION. IF THERE IS NO SEPARATE PAY ITEM FOR TEMPORARY EROSION CONTROL MEASURES, THE COST OF TEMPORARY EROSION CONTROL SHALL BE ABSORBED IN OTHER BID ITEMS.
14. ADDITIONAL EROSION AND SEDIMENT CONTROLS MAY BE DEEMED NECESSARY IF THE CONTROLS FOUND IN THIS STORMWATER MANAGEMENT PLAN ARE FOUND TO BE INEFFECTIVE.
15. EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED WEEKLY AND FOLLOWING ANY RAIN EVENT. NONFUNCTIONING, INEFFECTIVE OR DAMAGED CONTROLS SHALL BE REPAIRED, REPLACED OR SUPPLEMENTED WITH FUNCTIONAL CONTROLS WITHIN 24 HOURS OF DISCOVERY.
16. ANY SEDIMENT THAT HAS MIGRATED OFFSITE WHETHER ONTO PUBLIC OR PRIVATE PROPERTY SHALL BE REMOVED IMMEDIATELY UPON DISCOVERY AT NO ADDITIONAL COST TO THE OWNER. THE DAMAGED PROPERTY SHALL BE RESTORED TO THE CONDITION PRIOR TO THE SEDIMENT MIGRATION. THE SOURCE OF THE BREACH SHALL BE IMMEDIATELY LOCATED AND CORRECTED.

			BY	EROSION CONTROL NOTES & S.W.P.P.P.	
			REVISION		
			DATE	ENGINEER: THE WALKER ASSOCIATES, PLLC	WORKING NUMBER ECN-1
				FILENAME: 178-11 Erosion Control.dwg	SHEET NUMBER 8.0
				CHECKED BY DBG	DATE Jul 09, 2020

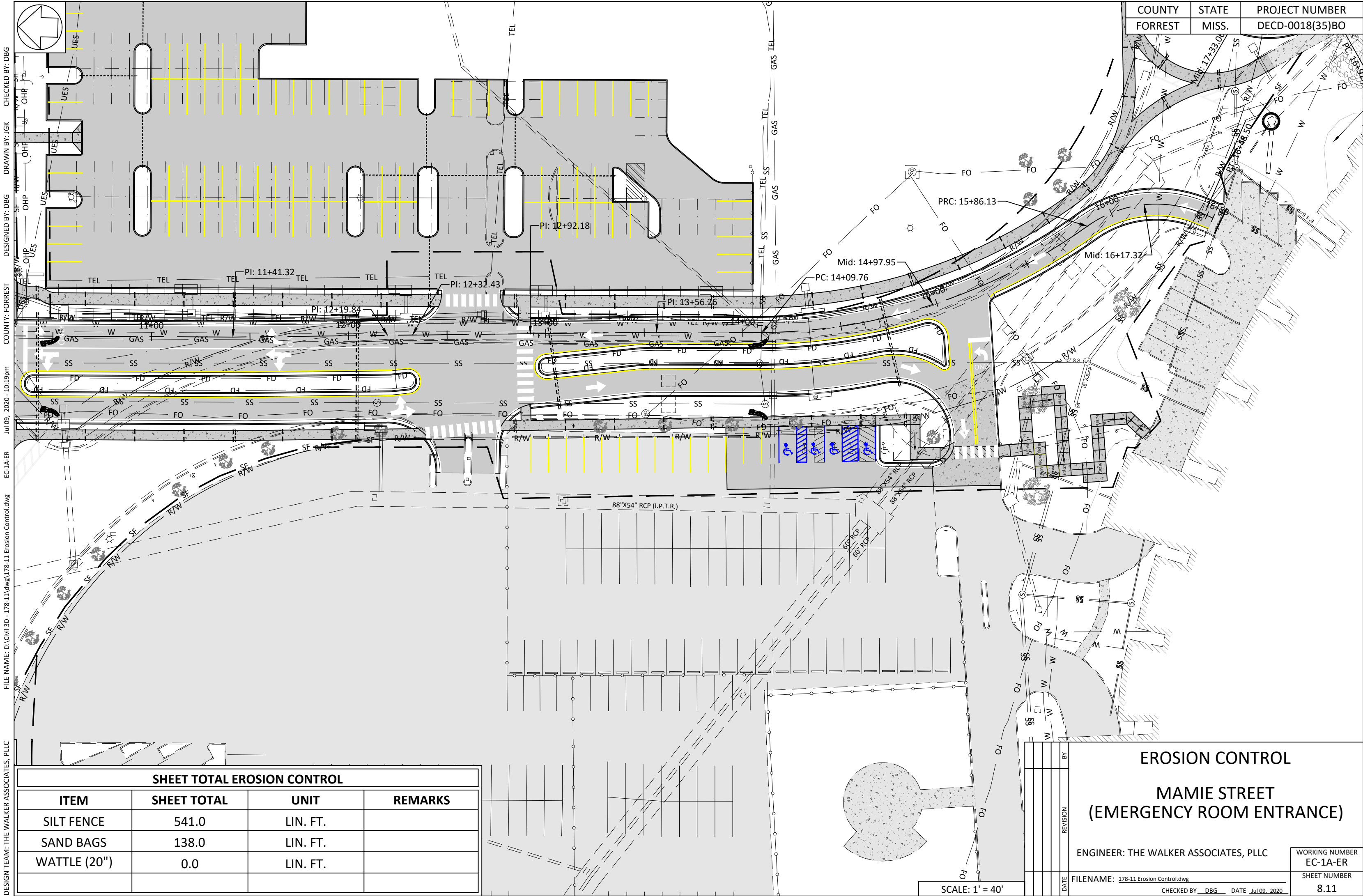
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FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Erosion Control.dwg
EC1
Jul 09, 2020 - 10:19pm
COUNTY: FORREST
DESIGNED BY: DBG
DRAWN BY: JGK
CHECKED BY: DBG



SHEET TOTAL EROSION CONTROL			
ITEM	SHEET TOTAL	UNIT	REMARKS
SILT FENCE	541.0	LIN. FT.	
SAND BAGS	138.0	LIN. FT.	
WATTLE (20")	0.0	LIN. FT.	

EROSION CONTROL	
MAMIE STREET (EMERGENCY ROOM ENTRANCE)	
ENGINEER: THE WALKER ASSOCIATES, PLLC	
DATE	FILENAME: 178-11 Erosion Control.dwg
REVISION	CHECKED BY: DBG DATE: Jul 09, 2020
BY	WORKING NUMBER: EC-1
	SHEET NUMBER: 8.1

SCALE: 1' = 40'



DESIGNED BY: DBG
DRAWN BY: JGK
CHECKED BY: DBG
COUNTY: FORREST
FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Erosion Control.dwg
Jul 09, 2020 - 10:19pm
EC-1A-ER
DESIGN TEAM: THE WALKER ASSOCIATES, PLLC

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD-0018(35)BO

EROSION CONTROL

MAMIE STREET
(EMERGENCY ROOM ENTRANCE)

ENGINEER: THE WALKER ASSOCIATES, PLLC

WORKING NUMBER
EC-1A-ER

DATE
178-11 Erosion Control.dwg

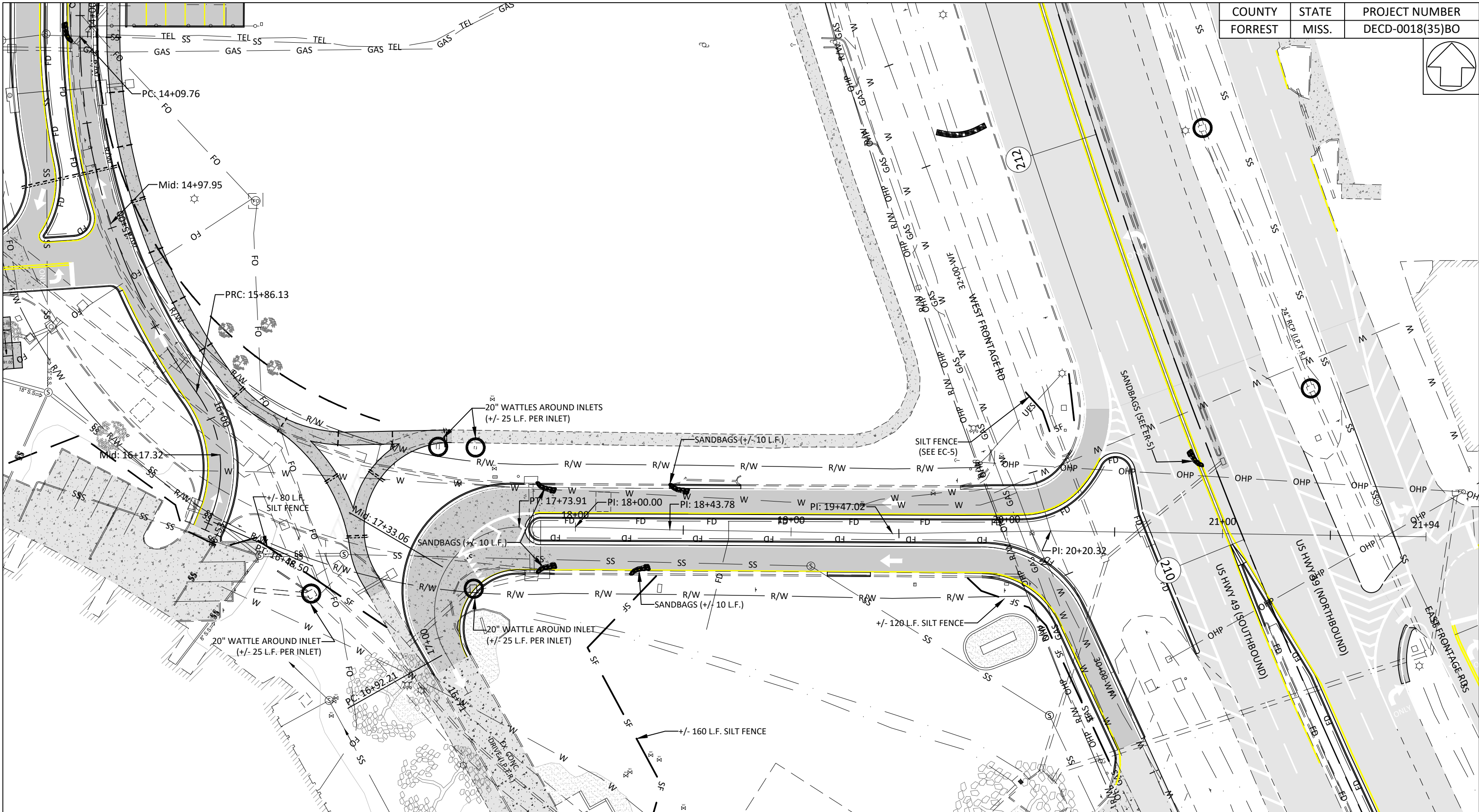
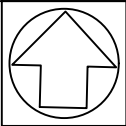
CHECKED BY
DBG

DATE
Jul 09, 2020

SHEET NUMBER
8.11

DESIGNED BY: DBG DRAWN BY: JGK CHECKED BY: DBG
COUNTRY: FORREST
Jul 09, 2020 - 10:19pm
EC2
FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Erosion Control.dwg
DESIGN TEAM: THE WALKER ASSOCIATES, PLLC

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD-0018(35)BO

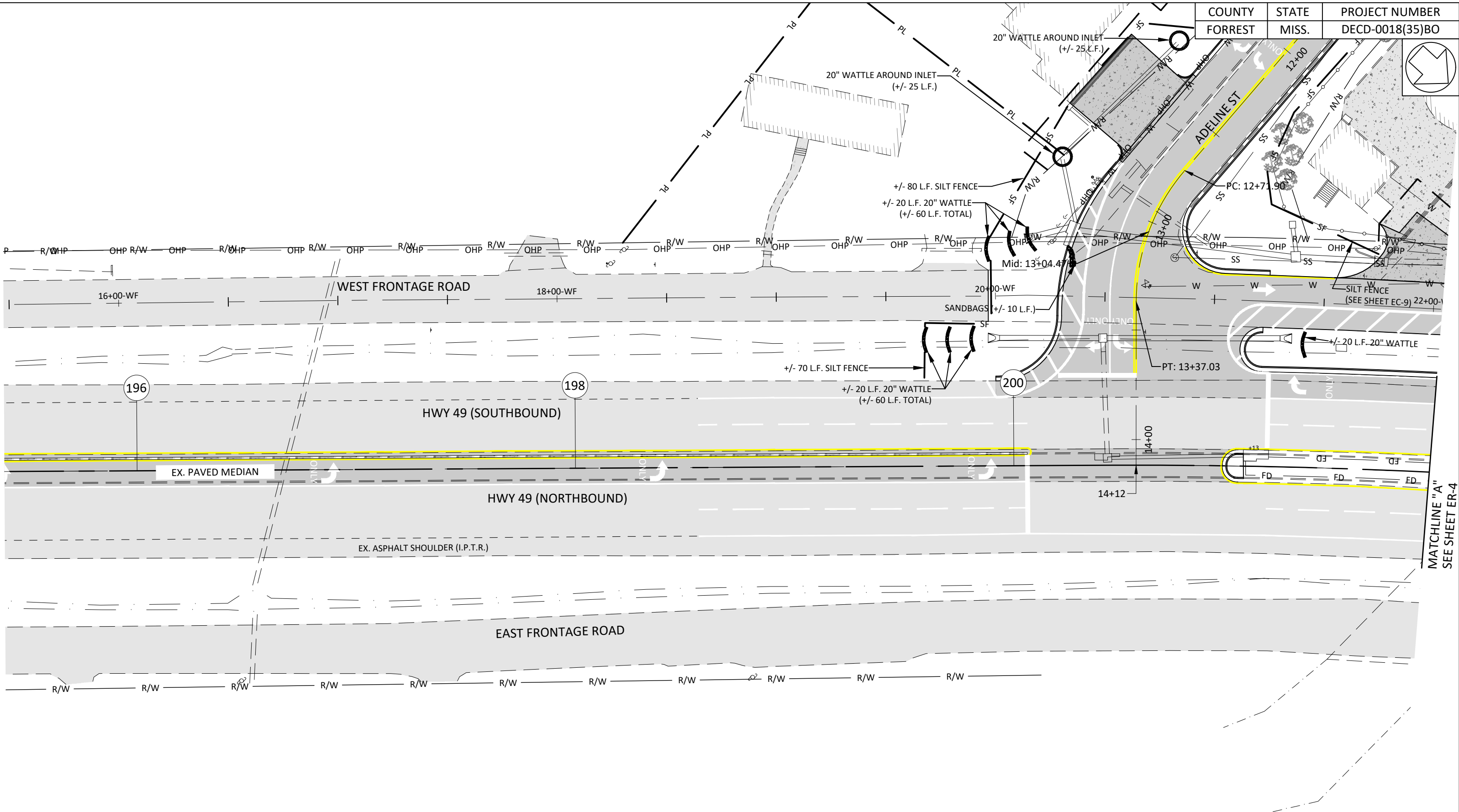


SHEET TOTAL EROSION CONTROL			
ITEM	SHEET TOTAL	UNIT	REMARKS
SILT FENCE	360.0	LIN. FT.	
SAND BAGS	40.0	LIN. FT.	
WATTLE (20")	75.0	LIN. FT.	

BY		EROSION CONTROL	
REVISION		MAMIE STREET (FORREST GENERAL HOSPITAL MAIN ENTRANCE)	
DATE		ENGINEER: THE WALKER ASSOCIATES, PLLC	WORKING NUMBER EC-2
		FILENAME: 178-11 Erosion Control.dwg	SHEET NUMBER 8.2
		CHECKED BY DBG DATE Jul 09, 2020	

SCALE: 1' = 40'

DESIGNED BY: DBG
DRAWN BY: JGK
CHECKED BY: DBG
COUNTY: FORREST
FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Erosion Control.dwg
EC3
Jul 09, 2020 - 10:20pm
DESIGN TEAM: THE WALKER ASSOCIATES, PLLC

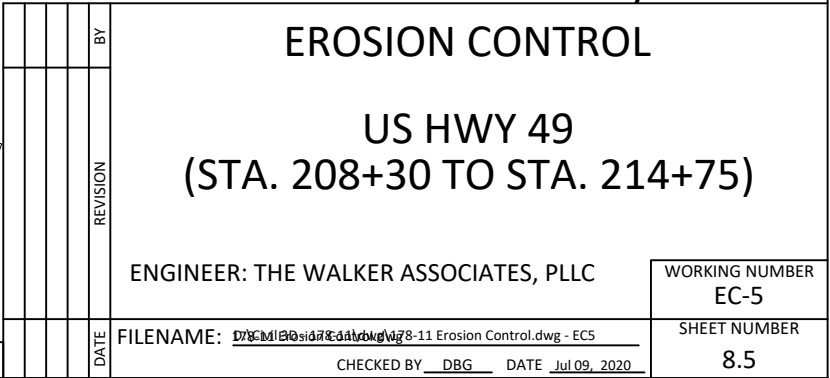


SHEET TOTAL EROSION CONTROL			
ITEM	SHEET TOTAL	UNIT	REMARKS
SILT FENCE	150.0	LIN. FT.	
SAND BAGS	10.0	LIN. FT.	
WATTLE (20")	190.0	LIN. FT.	

SCALE: 1' = 40'

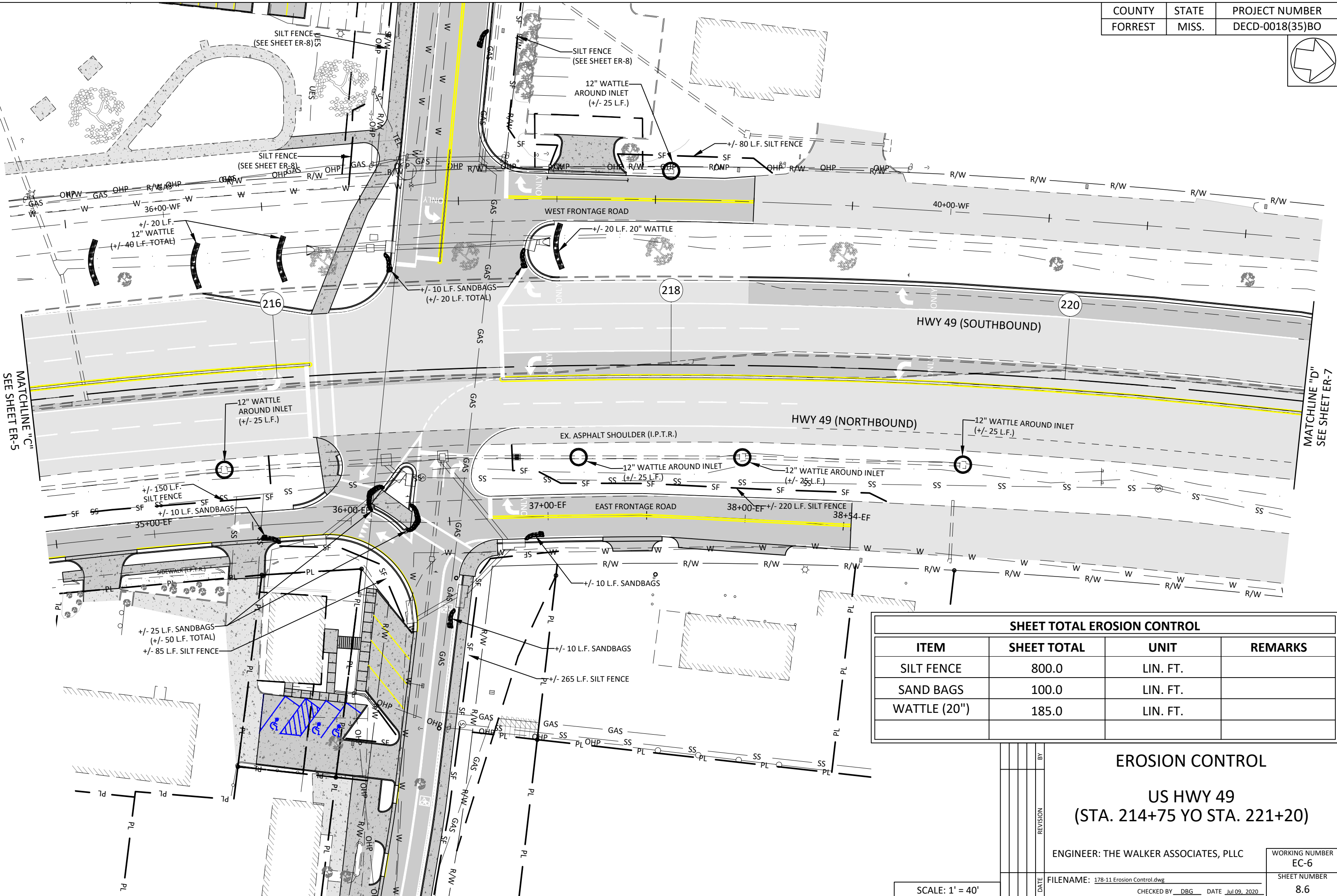
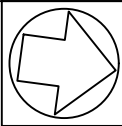
		BY	
		REVISION	
		DATE	
EROSION CONTROL US HWY 49 (STA. 195+40 TO STA. 201+84)			
ENGINEER: THE WALKER ASSOCIATES, PLLC			WORKING NUMBER EC-3
FILENAME: 178-11 Erosion Control.dwg			SHEET NUMBER 8.3
CHECKED BY <u>DBG</u> DATE <u>Jul 09, 2020</u>			

SCALE: 1' = 40'



FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Erosion Control.dwg EC6 Jul 09, 2020 - 10:21pm COUNTY: FORREST DESIGNER BY: JGK CHECKED BY: DBG DRAWN BY: JGK

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD-0018(35)BO



SHEET TOTAL EROSION CONTROL			
ITEM	SHEET TOTAL	UNIT	REMARKS
SILT FENCE	800.0	LIN. FT.	
SAND BAGS	100.0	LIN. FT.	
WATTLE (20")	185.0	LIN. FT.	

EROSION CONTROL

US HWY 49

(STA. 214+75 YO STA. 221+20)

ENGINEER: THE WALKER ASSOCIATES, PLLC

FILENAME: 178-11 Erosion Control.dwg

CHECKED BY: DBG DATE: Jul 09, 2020

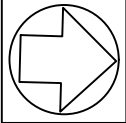
SCALE: 1' = 40'

WORKING NUMBER
EC-6

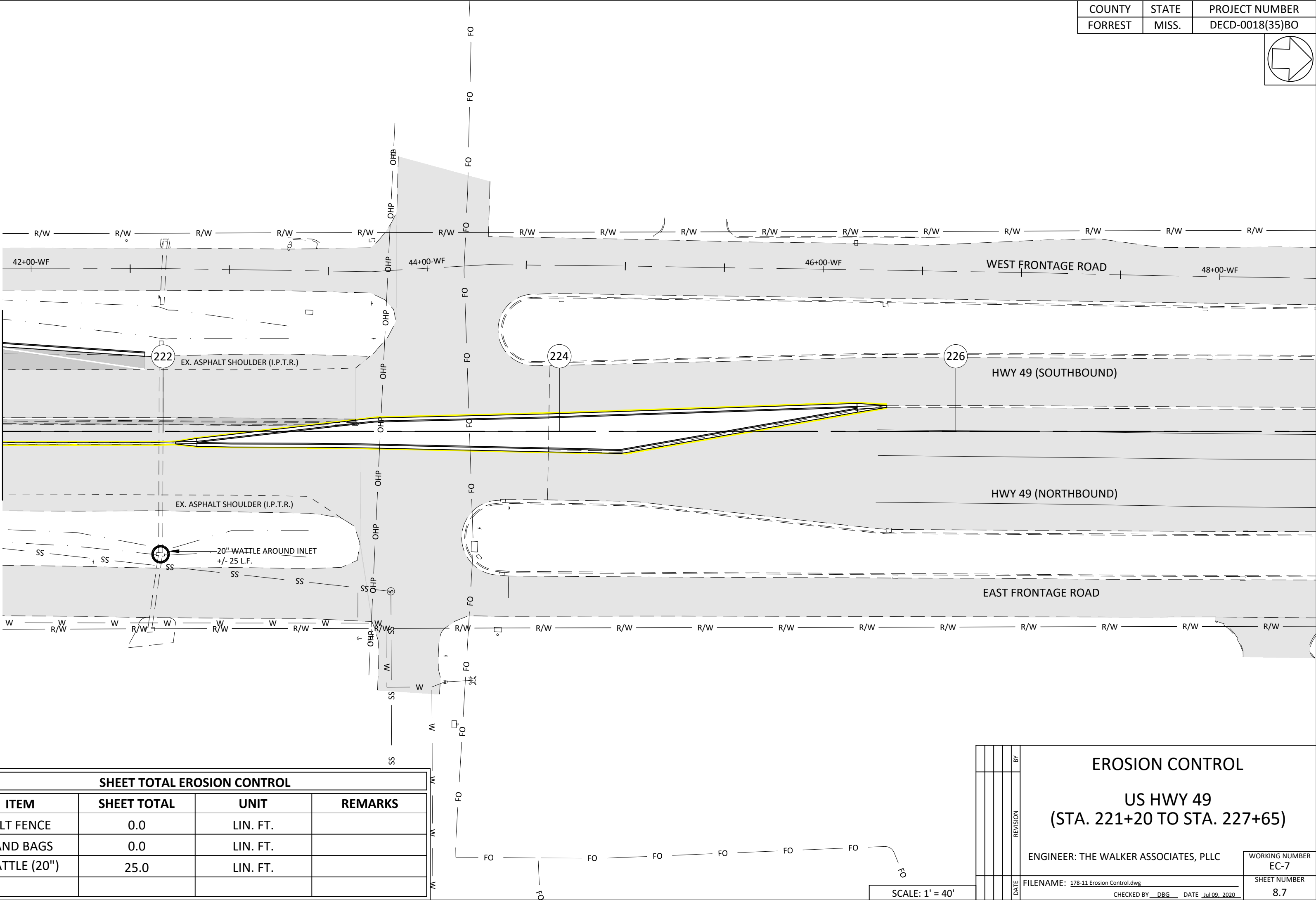
SHEET NUMBER
8.6

DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Erosion Control.dwg
EC7
Jul 09, 2020 - 10:21pm
COUNTY: FORREST
DESIGNED BY: DBG
DRAWN BY: JGK
CHECKED BY: DBG

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD-0018(35)BO



MATCHLINE "D"
SEE SHEET ER-6

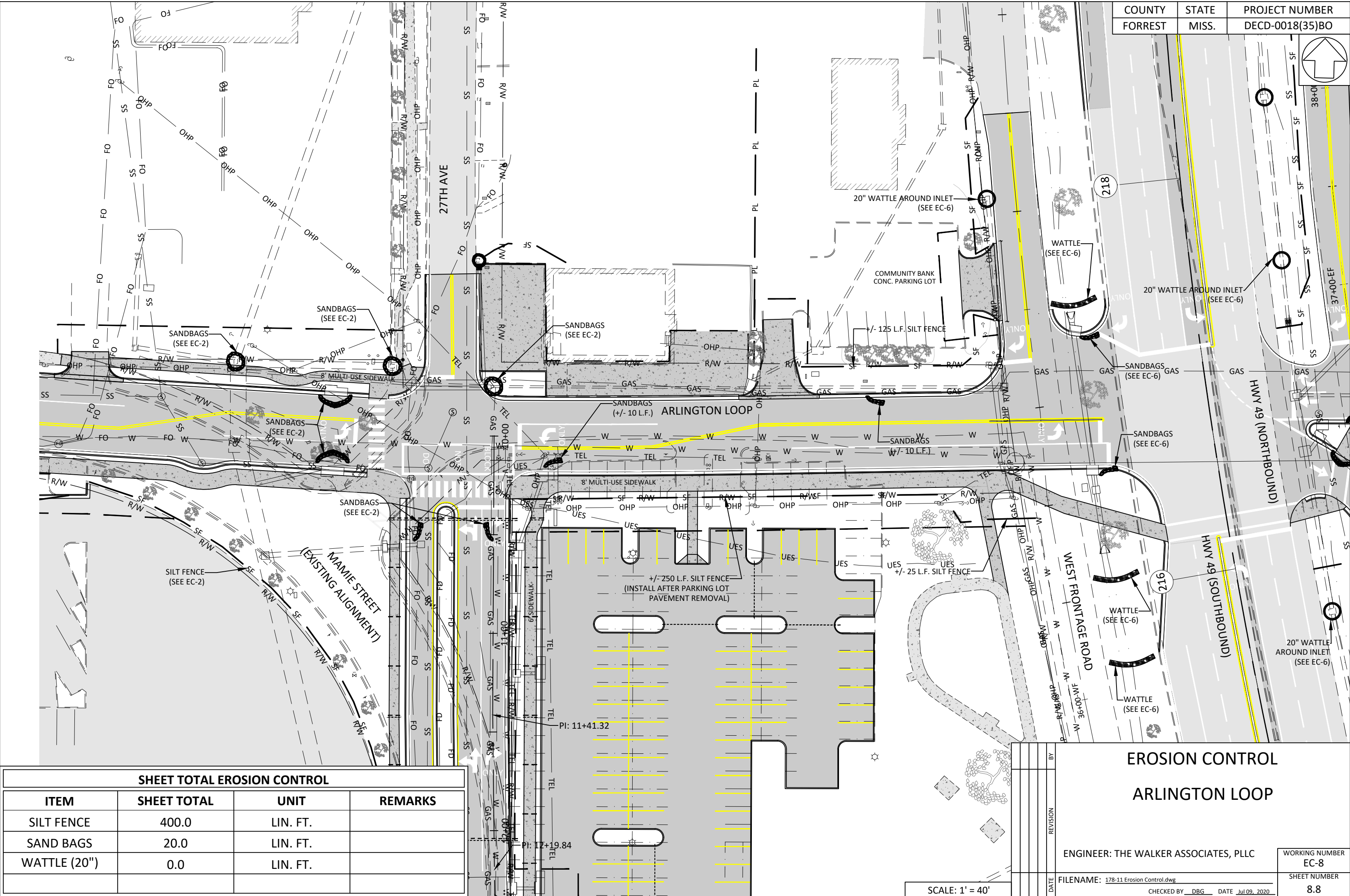


SHEET TOTAL EROSION CONTROL			
ITEM	SHEET TOTAL	UNIT	REMARKS
SILT FENCE	0.0	LIN. FT.	
SAND BAGS	0.0	LIN. FT.	
WATTLE (20")	25.0	LIN. FT.	

SCALE: 1' = 40'

EROSION CONTROL			
US HWY 49 (STA. 221+20 TO STA. 227+65)			
ENGINEER: THE WALKER ASSOCIATES, PLLC			WORKING NUMBER EC-7
FILENAME: 178-11 Erosion Control.dwg			SHEET NUMBER 8.7
DATE	CHECKED BY	DATE	
	DBG	Jul 09, 2020	

DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Erosion Control.dwg
EC8
Jul 09, 2020 - 10:24pm
COUNTY: FORREST
DESIGNED BY: DBG
DRAWN BY: JGK
CHECKED BY: DBG



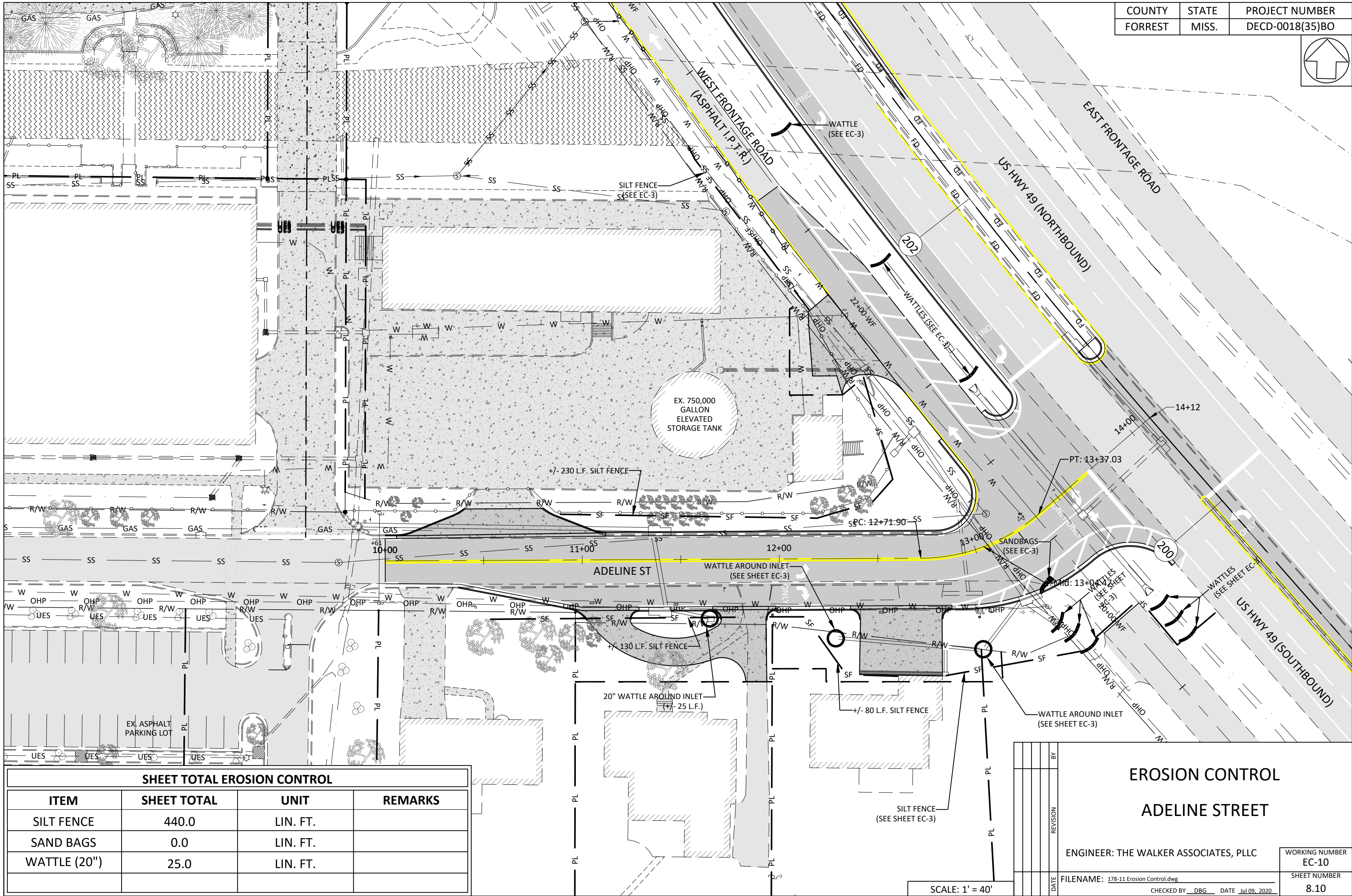
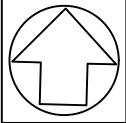
SHEET TOTAL EROSION CONTROL			
ITEM	SHEET TOTAL	UNIT	REMARKS
SILT FENCE	400.0	LIN. FT.	
SAND BAGS	20.0	LIN. FT.	
WATTLE (20")	0.0	LIN. FT.	

EROSION CONTROL		ARLINGTON LOOP	
ENGINEER: THE WALKER ASSOCIATES, PLLC		WORKING NUMBER EC-8	
FILENAME: 178-11 Erosion Control.dwg		SHEET NUMBER 8.8	
DATE	CHECKED BY: DBG	DATE	Jul 09, 2020

					BY	EROSION CONTROL					
						CAMP STREET					
					REVISION	ENGINEER: THE WALKER ASSOCIATES, PLLC					
						WORKING NUMBER EC-9					
					DATE	FILENAME: 178-11 Erosion Control.dwg					
						CHECKED BY DBG DATE Jul 09, 2020					
						SHEET NUMBER 8.9					

FILE NAME: D:\Civil 3D - 178-11.dwg\178-11 Erosion Control.dwg
DESIGNED BY: DBG
DRAWN BY: JGK
CHECKED BY: DBG
COUNTY: FORREST
JUL 09, 2020 - 10:22pm
EC10
DESIGN TEAM: THE WALKER ASSOCIATES, PLLC

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD-0018(35)BO

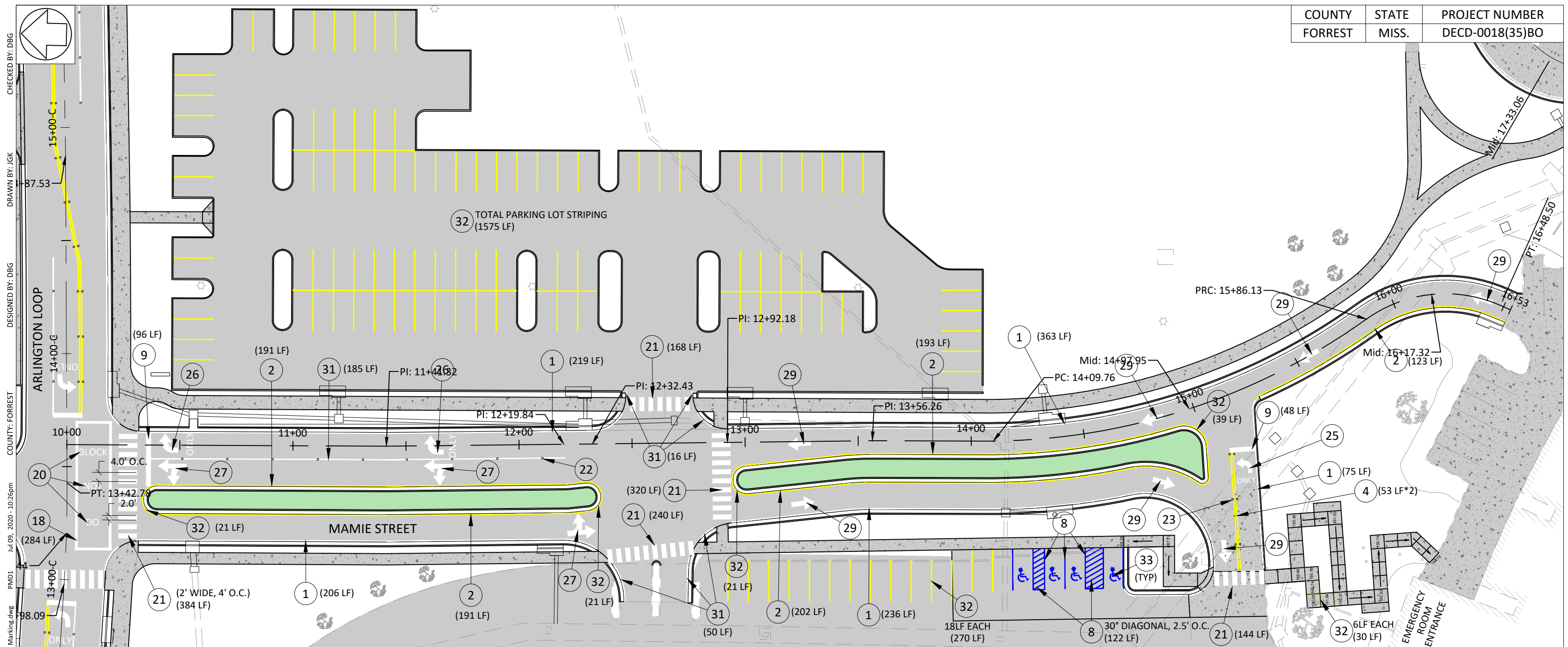


SHEET TOTAL EROSION CONTROL			
ITEM	SHEET TOTAL	UNIT	REMARKS
SILT FENCE	440.0	LIN. FT.	
SAND BAGS	0.0	LIN. FT.	
WATTLE (20")	25.0	LIN. FT.	

EROSION CONTROL			
ADELINE STREET			
ENGINEER: THE WALKER ASSOCIATES, PLLC			WORKING NUMBER EC-10
FILENAME: 178-11 Erosion Control.dwg			SHEET NUMBER 8.10
DATE	CHECKED BY	DATE	
	DBG	JUL 09, 2020	

SCALE: 1' = 40'

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD-0018(35)BO



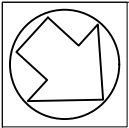
*SYMBOL #	DESCRIPTION	UNIT	QUANTITY
1	4" THERMO EDGE (CONT. WHITE)	MI.	0.2081
2	4" THERMO EDGE (CONT. YELLOW)	MI.	0.1705
3	4" THERMO (CONT. WHITE)	MI.	0.0000
4	4" THERMO (CONT. YELLOW)	MI.	0.0201
5	4" THERMO (SKIP YELLOW)	MI.	0.0000
6	8" THERMO (DETAIL WHITE)	LIN. FT.	0
7	8" THERMO (DETAIL WHITE) DIAGONAL	LIN. FT.	0
8	4" THERMOPLASTIC DETAIL STRIPE, BLUE	LIN. FT.	122
9	24" THERMO (LEGEND WHITE) (STOP BAR)	LIN. FT.	144
10	6" THERMO TRAFFIC STRIPE (SKIP WHITE)	LIN. FT.	0
11	6" THERMO (CONT. WHITE)	LIN. FT.	0
12	6" THERMO EDGE (CONT. WHITE)	LIN. FT.	0
13	6" THERMO (CONT. YELLOW)	LIN. FT.	0
14	6" THERMO EDGE (CONT. YELLOW)	LIN. FT.	0
15	6" THERMO (DETAIL WHITE)	LIN. FT.	0
16	6" THERMO (DETAIL YELLOW)	LIN. FT.	0
17	6" THERMO (DETAIL SKIP WHITE) 2' STRIP - 6' GAP	LIN. FT.	0
18	12" THERMO (DETAIL WHITE)	LIN. FT.	284

*SYMBOL #	DESCRIPTION	UNIT	QUANTITY
19	YIELD BAR	SQ.FT.	0
20	THERMO DO NOT BLOCK (LEGEND)	SQ.FT.	60
21	24" THERMO (DETAIL WHITE)	LIN. FT.	1256
22	RED-CLEAR REFLECTIVE RAISED MARKERS	EACH	9
23	TWO-WAY YELLOW REFLECTIVE RAISED MARKERS	EACH	6
24	THERMO TURN ARROW (LEGEND)	SQ.FT.	0
25	THERMO LEFT TURN ARROW AND ONLY (LEGEND)	SQ.FT.	38
26	THERMO RIGHT TURN ARROW AND ONLY (LEGEND)	SQ.FT.	77
27	THERMO LEFT TURN AND THRU ARROW (LEGEND)	SQ.FT.	149
28	THERMO RIGHT TURN AND THRU ARROW (LEGEND)	SQ.FT.	0
29	THERMO THRU ARROW (LEGEND)	SQ.FT.	86
30	BICYCLE PAVEMENT MARKING	SQ.FT.	0
31	4" THERMO (DETAIL WHITE)	LIN. FT.	307
32	4" THERMO (DETAIL YELLOW)	LIN. FT.	2081
33	HANDICAPPED PAVEMENT MARKING (BLUE)	SQ.FT.	26
* Symbol number enclosed with circle (example ①).			
Note: 12", 18", and 24" Quantities are measured in 6" equivalent lengths.			
Note: 8" Quantities are measured in 4" equivalent lengths.			

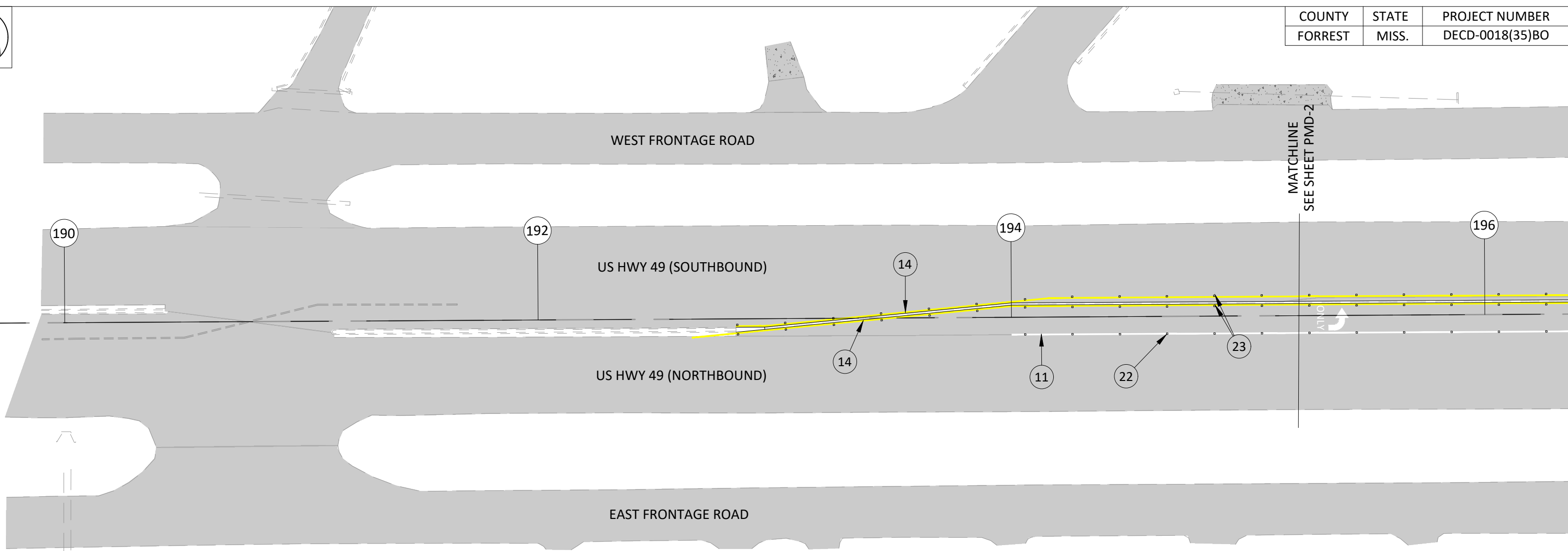
NOTE: REFER TO SHEET MD-10 FOR THE "DO NOT BLOCK" PAVEMENT MARKING DETAIL

			BY	PAVEMENT MARKING MAMIE STREET (EMERGENCY ROOM ENTRANCE)	
			REVISION		
				ENGINEER: THE WALKER ASSOCIATES, PLLC	WORKING NUMBER PMD-1
			DATE	FILENAME: <u>178-11 Pavement Marking.dwg</u>	SHEET NUMBER 9.0
				CHECKED BY DBG DATE Jul 09, 2020	

CHECKED BY: DBG
DRAWN BY: JGK
DESIGNED BY: DBG
COUNTY: FORREST
Jul 09, 2020 - 10:26pm
PMD1A
FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Pavement Marking.dwg
DESIGN TEAM: THE WALKER ASSOCIATES, PLLC



COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD-0018(35)BO



NOTE: QUANTITIES INCLUDED IN SHEET PMD2 TOTALS

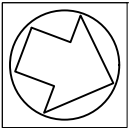
SCALE: 1' = 40'

			BY
		REVISION	
PAVEMENT MARKING US HWY 49 (STA. 195+40 TO STA. 201+84)			
ENGINEER: THE WALKER ASSOCIATES, PLLC			WORKING NUMBER PMD-1A
DATE	FILENAME: 178-11 Pavement Marking.dwg		SHEET NUMBER 9.01
CHECKED BY <u>DBG</u> DATE <u>Jul 09, 2020</u>			

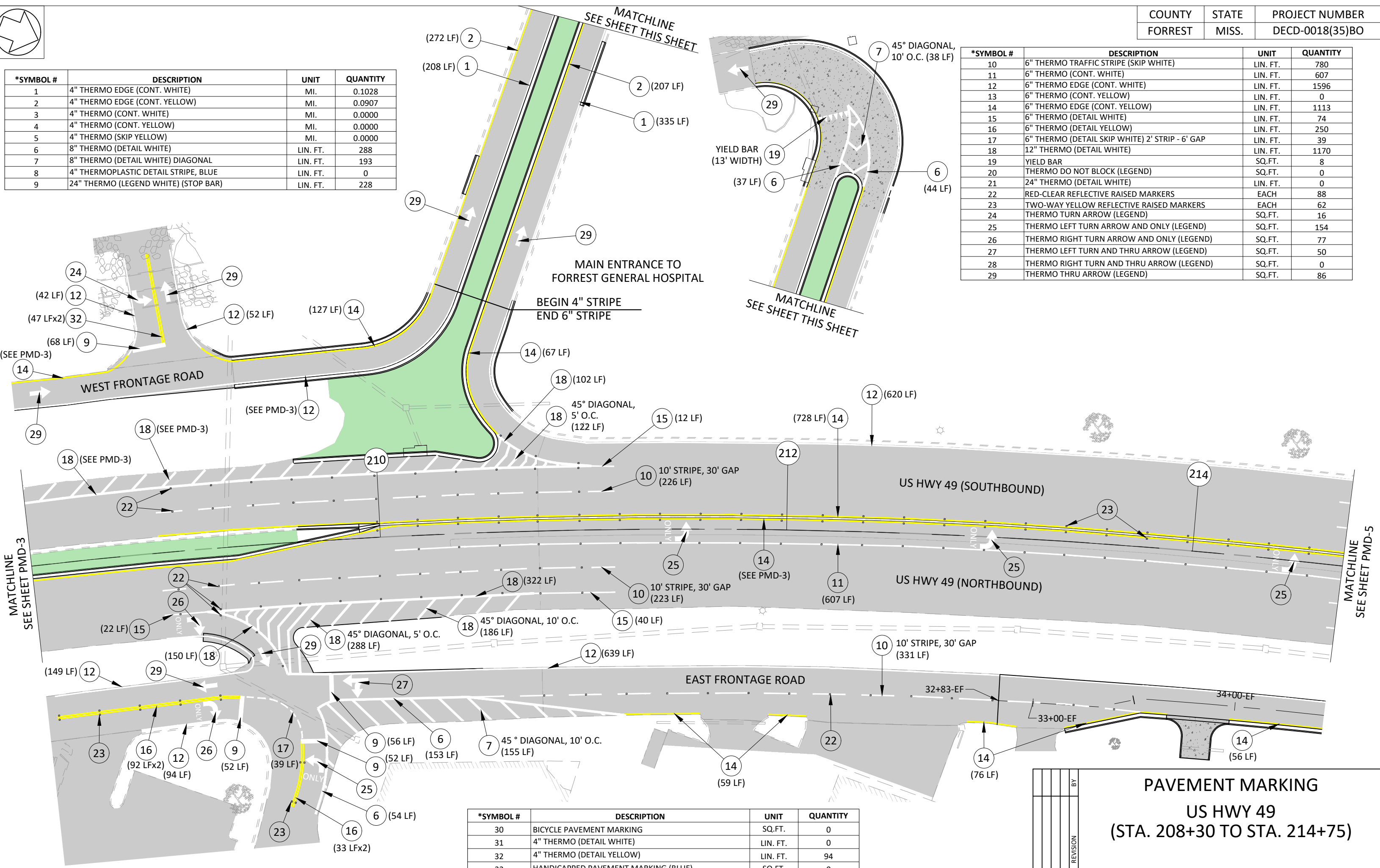
			BY	PAVEMENT MARKING US HWY 49 (STA. 195+40 TO STA. 201+84)
			REVISION	
			DATE	ENGINEER: THE WALKER ASSOCIATES, PLLC FILENAME: <u>178-11 Pavement Marking.dwg</u> CHECKED BY <u>DBG</u> DATE <u>Jul 09, 2020</u>
				WORKING NUMBER PMD-2 SHEET NUMBER 9.1

SHEET NUMBER
9.2

CHECKED BY: DBG
DRAWN BY: JGK
DESIGNED BY: DBG
COUNTY: FORREST
Jul 09, 2020 - 10:27pm
PMD4
FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Pavement Marking.dwg
DESIGN TEAM: THE WALKER ASSOCIATES, PLLC



*SYMBOL #	DESCRIPTION	UNIT	QUANTITY
1	4" THERMO EDGE (CONT. WHITE)	MI.	0.1028
2	4" THERMO EDGE (CONT. YELLOW)	MI.	0.0907
3	4" THERMO (CONT. WHITE)	MI.	0.0000
4	4" THERMO (CONT. YELLOW)	MI.	0.0000
5	4" THERMO (SKIP YELLOW)	MI.	0.0000
6	8" THERMO (DETAIL WHITE)	LIN. FT.	288
7	8" THERMO (DETAIL WHITE) DIAGONAL	LIN. FT.	193
8	4" THERMOPLASTIC DETAIL STRIPE, BLUE	LIN. FT.	0
9	24" THERMO (LEGEND WHITE) (STOP BAR)	LIN. FT.	228



*SYMBOL #	DESCRIPTION	UNIT	QUANTITY
10	6" THERMO TRAFFIC STRIPE (SKIP WHITE)	LIN. FT.	780
11	6" THERMO (CONT. WHITE)	LIN. FT.	607
12	6" THERMO EDGE (CONT. WHITE)	LIN. FT.	1596
13	6" THERMO (CONT. YELLOW)	LIN. FT.	0
14	6" THERMO EDGE (CONT. YELLOW)	LIN. FT.	1113
15	6" THERMO (DETAIL WHITE)	LIN. FT.	74
16	6" THERMO (DETAIL YELLOW)	LIN. FT.	250
17	6" THERMO (DETAIL SKIP WHITE) 2' STRIP - 6' GAP	LIN. FT.	39
18	12" THERMO (DETAIL WHITE)	LIN. FT.	1170
19	YIELD BAR	SQ.FT.	8
20	THERMO DO NOT BLOCK (LEGEND)	SQ.FT.	0
21	24" THERMO (DETAIL WHITE)	LIN. FT.	0
22	RED-CLEAR REFLECTIVE RAISED MARKERS	EACH	88
23	TWO-WAY YELLOW REFLECTIVE RAISED MARKERS	EACH	62
24	THERMO TURN ARROW (LEGEND)	SQ.FT.	16
25	THERMO LEFT TURN ARROW AND ONLY (LEGEND)	SQ.FT.	154
26	THERMO RIGHT TURN ARROW AND ONLY (LEGEND)	SQ.FT.	77
27	THERMO LEFT TURN AND THRU ARROW (LEGEND)	SQ.FT.	50
28	THERMO RIGHT TURN AND THRU ARROW (LEGEND)	SQ.FT.	0
29	THERMO THRU ARROW (LEGEND)	SQ.FT.	86

*SYMBOL #	DESCRIPTION	UNIT	QUANTITY
30	BICYCLE PAVEMENT MARKING	SQ.FT.	0
31	4" THERMO (DETAIL WHITE)	LIN. FT.	0
32	4" THERMO (DETAIL YELLOW)	LIN. FT.	94
33	HANDICAPPED PAVEMENT MARKING (BLUE)	SQ.FT.	0

* Symbol number enclosed with circle (example ①).
Note: 12", 18", and 24" Quantities are measured in 6" equivalent lengths.
Note: 8" Quantities are measured in 4" equivalent lengths.

SCALE: 1' = 40'

PAVEMENT MARKING
US HWY 49
(STA. 208+30 TO STA. 214+75)

ENGINEER: THE WALKER ASSOCIATES, PLLC

FILENAME: 178-11 Pavement Marking.dwg

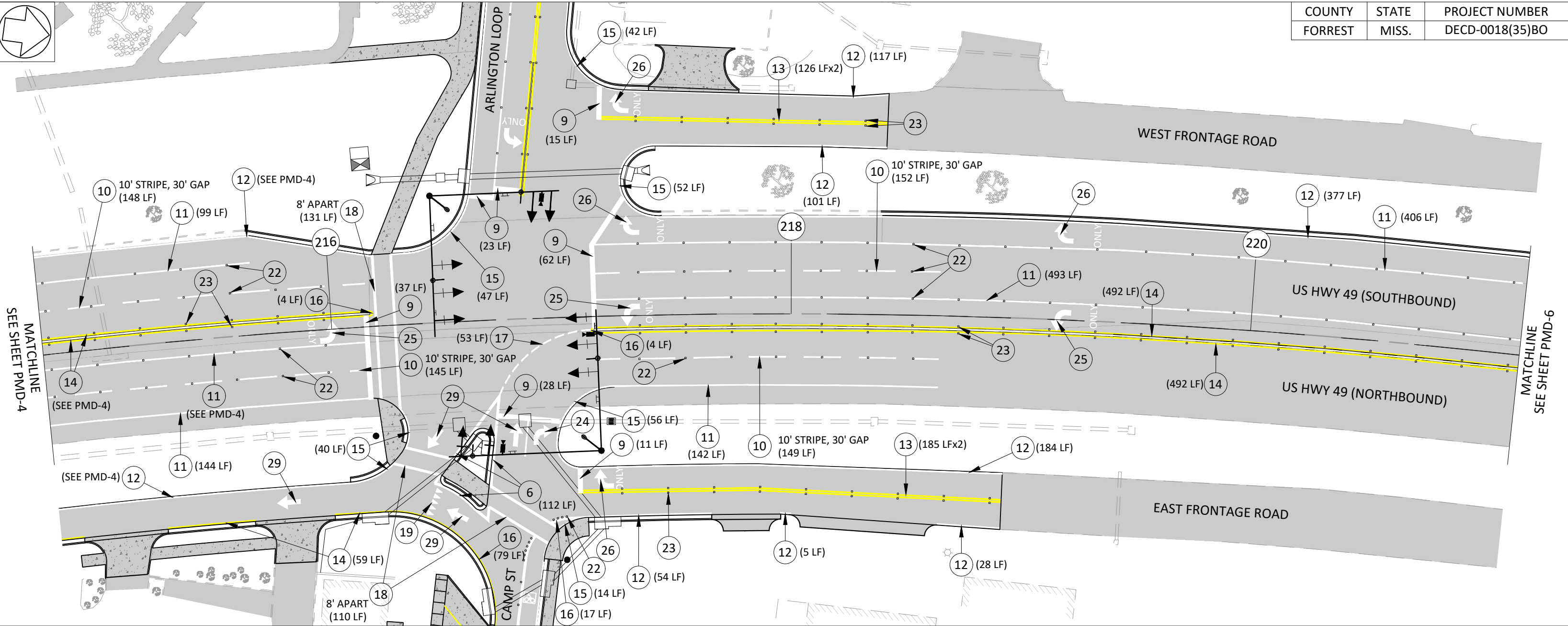
CHECKED BY: DBG DATE: Jul 09, 2020

WORKING NUMBER
PMD-4

SHEET NUMBER
9.3

FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Pavement Marking.dwg
DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
PMD5
Jul 09, 2020 - 10:27am
COUNTY: FORREST
DESIGNED BY: DBG
DRAWN BY: JGK
CHECKED BY: DBG

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD-0018(35)BO



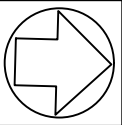
*SYMBOL #	DESCRIPTION	UNIT	QUANTITY
1	4" THERMO EDGE (CONT. WHITE)	MI.	0.0000
2	4" THERMO EDGE (CONT. YELLOW)	MI.	0.0000
3	4" THERMO (CONT. WHITE)	MI.	0.0000
4	4" THERMO (CONT. YELLOW)	MI.	0.0000
5	4" THERMO (SKIP YELLOW)	MI.	0.0000
6	8" THERMO (DETAIL WHITE)	LIN. FT.	112
7	8" THERMO (DETAIL WHITE) DIAGONAL	LIN. FT.	0
8	4" THERMOPLASTIC DETAIL STRIPE, BLUE	LIN. FT.	0
9	24" THERMO (LEGEND WHITE) (STOP BAR)	LIN. FT.	704
10	6" THERMO TRAFFIC STRIPE (SKIP WHITE)	LIN. FT.	594
11	6" THERMO (CONT. WHITE)	LIN. FT.	1284
12	6" THERMO EDGE (CONT. WHITE)	LIN. FT.	866
13	6" THERMO (CONT. YELLOW)	LIN. FT.	622
14	6" THERMO EDGE (CONT. YELLOW)	LIN. FT.	1043
15	6" THERMO (DETAIL WHITE)	LIN. FT.	251
16	6" THERMO (DETAIL YELLOW)	LIN. FT.	104
17	6" THERMO (DETAIL SKIP WHITE) 2' STRIP - 6' GAP	LIN. FT.	53
18	12" THERMO (DETAIL WHITE)	LIN. FT.	482

*SYMBOL #	DESCRIPTION	UNIT	QUANTITY
19	YIELD BAR	SQ.FT.	0
20	THERMO DO NOT BLOCK (LEGEND)	SQ.FT.	0
21	24" THERMO (DETAIL WHITE)	LIN. FT.	0
22	RED-CLEAR REFLECTIVE RAISED MARKERS	EACH	84
23	TWO-WAY YELLOW REFLECTIVE RAISED MARKERS	EACH	84
24	THERMO TURN ARROW (LEGEND)	SQ.FT.	16
25	THERMO LEFT TURN ARROW AND ONLY (LEGEND)	SQ.FT.	115
26	THERMO RIGHT TURN ARROW AND ONLY (LEGEND)	SQ.FT.	154
27	THERMO LEFT TURN AND THRU ARROW (LEGEND)	SQ.FT.	0
28	THERMO RIGHT TURN AND THRU ARROW (LEGEND)	SQ.FT.	0
29	THERMO THRU ARROW (LEGEND)	SQ.FT.	49
30	BICYCLE PAVEMENT MARKING	SQ.FT.	0
31	4" THERMO (DETAIL WHITE)	LIN. FT.	0
32	4" THERMO (DETAIL YELLOW)	LIN. FT.	0
33	HANDICAPPED PAVEMENT MARKING (BLUE)	SQ.FT.	0
* Symbol number enclosed with circle (example ①).			
Note: 12", 18", and 24" Quantities are measured in 6" equivalent lengths.			
Note: 8" Quantities are measured in 4" equivalent lengths.			

SCALE: 1' = 40'

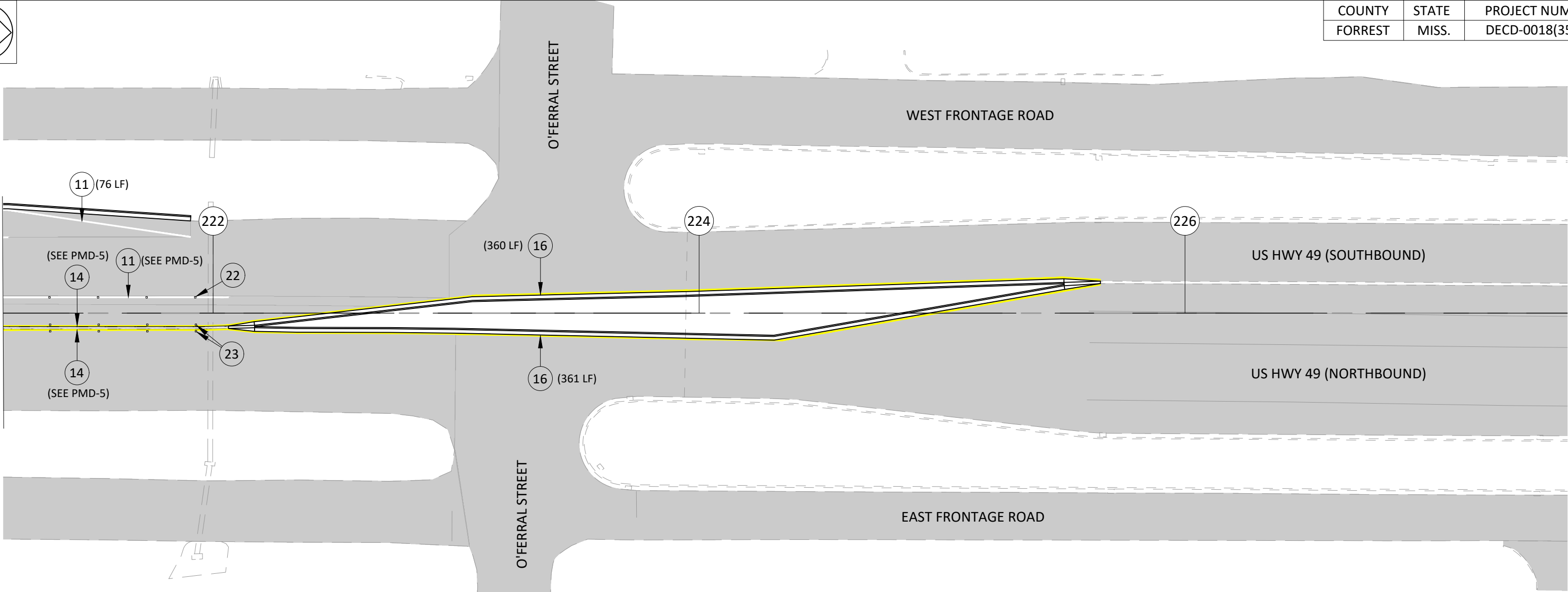
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FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Pavement Marking.dwg
DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
COUNTY: FORREST
DRAWN BY: JGK
CHECKED BY: DBG
PMD6
Jul 09, 2020 - 10:27pm



COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD-0018(35)BO

MATCHLINE
SEE SHEET PMD-5



*SYMBOL #	DESCRIPTION	UNIT	QUANTITY
1	4" THERMO EDGE (CONT. WHITE)	MI.	0.0000
2	4" THERMO EDGE (CONT. YELLOW)	MI.	0.0000
3	4" THERMO (CONT. WHITE)	MI.	0.0000
4	4" THERMO (CONT. YELLOW)	MI.	0.0000
5	4" THERMO (SKIP YELLOW)	MI.	0.0000
6	8" THERMO (DETAIL WHITE)	LIN. FT.	0
7	8" THERMO (DETAIL WHITE) DIAGONAL	LIN. FT.	0
8	4" THERMOPLASTIC DETAIL STRIPE, BLUE	LIN. FT.	0
9	24" THERMO (LEGEND WHITE) (STOP BAR)	LIN. FT.	0
10	6" THERMO TRAFFIC STRIPE (SKIP WHITE)	LIN. FT.	0
11	6" THERMO (CONT. WHITE)	LIN. FT.	76
12	6" THERMO EDGE (CONT. WHITE)	LIN. FT.	0
13	6" THERMO (CONT. YELLOW)	LIN. FT.	0
14	6" THERMO EDGE (CONT. YELLOW)	LIN. FT.	0
15	6" THERMO (DETAIL WHITE)	LIN. FT.	0
16	6" THERMO (DETAIL YELLOW)	LIN. FT.	721
17	6" THERMO (DETAIL SKIP WHITE) 2' STRIP - 6' GAP	LIN. FT.	0
18	12" THERMO (DETAIL WHITE)	LIN. FT.	0

*SYMBOL #	DESCRIPTION	UNIT	QUANTITY
19	YIELD BAR	SQ.FT.	0
20	THERMO DO NOT BLOCK (LEGEND)	SQ.FT.	0
21	24" THERMO (DETAIL WHITE)	LIN. FT.	0
22	RED-CLEAR REFLECTIVE RAISED MARKERS	EACH	4
23	TWO-WAY YELLOW REFLECTIVE RAISED MARKERS	EACH	8
24	THERMO TURN ARROW (LEGEND)	SQ.FT.	0
25	THERMO LEFT TURN ARROW AND ONLY (LEGEND)	SQ.FT.	0
26	THERMO RIGHT TURN ARROW AND ONLY (LEGEND)	SQ.FT.	0
27	THERMO LEFT TURN AND THRU ARROW (LEGEND)	SQ.FT.	0
28	THERMO RIGHT TURN AND THRU ARROW (LEGEND)	SQ.FT.	0
29	THERMO THRU ARROW (LEGEND)	SQ.FT.	0
30	BICYCLE PAVEMENT MARKING	SQ.FT.	0
31	4" THERMO (DETAIL WHITE)	LIN. FT.	0
32	4" THERMO (DETAIL YELLOW)	LIN. FT.	0
33	HANDICAPPED PAVEMENT MARKING (BLUE)	SQ.FT.	0
* Symbol number enclosed with circle (example ①).			
Note: 12", 18", and 24" Quantities are measured in 6" equivalent lengths.			
Note: 8" Quantities are measured in 4" equivalent lengths.			

SCALE: 1' = 40'

				BY	PAVEMENT MARKING US HWY 49 (STA. 221+20 TO STA. 227+65)	
				REVISION		
				DATE	ENGINEER: THE WALKER ASSOCIATES, PLLC	WORKING NUMBER PMD-6
					FILENAME: 178-11 Pavement Marking.dwg	SHEET NUMBER 9.5
					CHECKED BY: DBG DATE: Jul 09, 2020	

CHECKED BY: DBG

DRAWN BY: JGK

DESIGNED BY: DBG

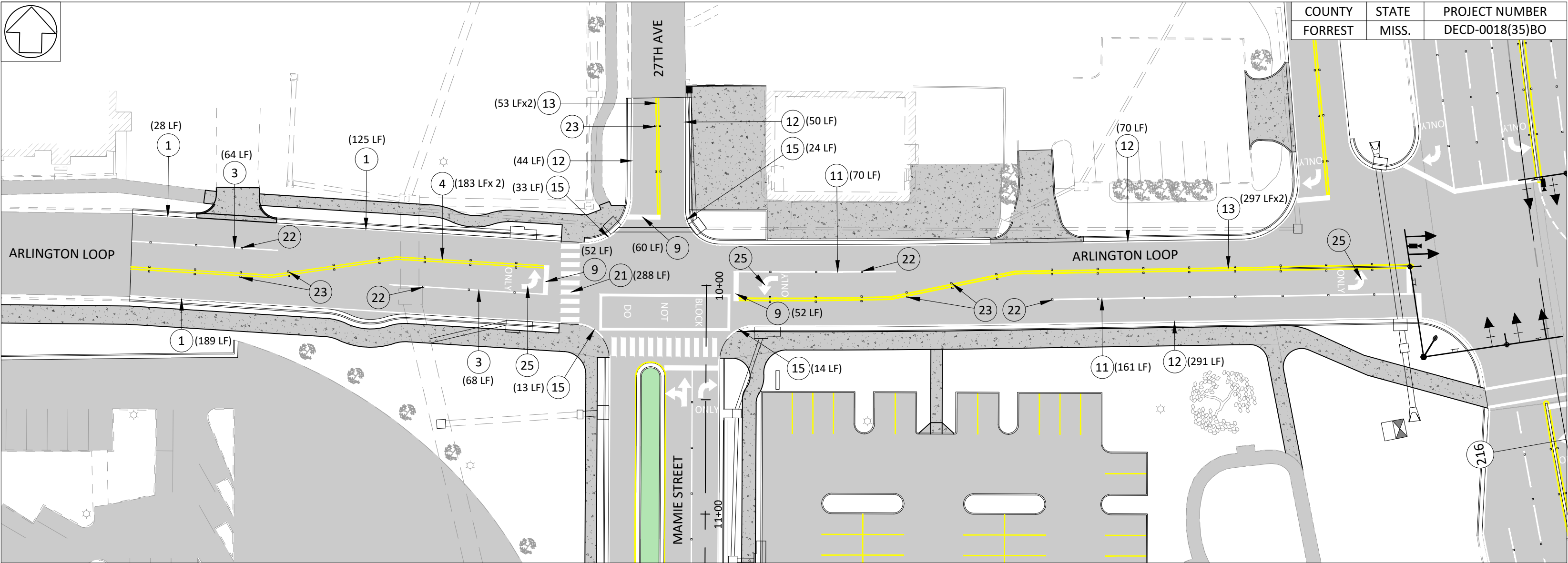
COUNTY: FORREST

Jul 09, 2020 - 10:28pm

PMD7

FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Pavement Marking.dwg

DESIGN TEAM: THE WALKER ASSOCIATES, PLLC



*SYMBOL #	DESCRIPTION	UNIT	QUANTITY
1	4" THERMO EDGE (CONT. WHITE)	MI.	0.0648
2	4" THERMO EDGE (CONT. YELLOW)	MI.	0.0000
3	4" THERMO (CONT. WHITE)	MI.	0.0250
4	4" THERMO (CONT. YELLOW)	MI.	0.0693
5	4" THERMO (SKIP YELLOW)	MI.	0.0000
6	8" THERMO (DETAIL WHITE)	LIN. FT.	0
7	8" THERMO (DETAIL WHITE) DIAGONAL	LIN. FT.	0
8	4" THERMOPLASTIC DETAIL STRIPE, BLUE	LIN. FT.	0
9	24" THERMO (LEGEND WHITE) (STOP BAR)	LIN. FT.	164
10	6" THERMO TRAFFIC STRIPE (SKIP WHITE)	LIN. FT.	0
11	6" THERMO (CONT. WHITE)	LIN. FT.	231
12	6" THERMO EDGE (CONT. WHITE)	LIN. FT.	455
13	6" THERMO (CONT. YELLOW)	LIN. FT.	700
14	6" THERMO EDGE (CONT. YELLOW)	LIN. FT.	0
15	6" THERMO (DETAIL WHITE)	LIN. FT.	84
16	6" THERMO (DETAIL YELLOW)	LIN. FT.	0
17	6" THERMO (DETAIL SKIP WHITE) 2' STRIP - 6' GAP	LIN. FT.	0
18	12" THERMO (DETAIL WHITE)	LIN. FT.	0

*SYMBOL #	DESCRIPTION	UNIT	QUANTITY
19	YIELD BAR	SQ.FT.	0
20	THERMO DO NOT BLOCK (LEGEND)	SQ.FT.	0
21	24" THERMO (DETAIL WHITE)	LIN. FT.	288
22	RED-CLEAR REFLECTIVE RAISED MARKERS	EACH	17
23	TWO-WAY YELLOW REFLECTIVE RAISED MARKERS	EACH	49
24	THERMO TURN ARROW (LEGEND)	SQ.FT.	0
25	THERMO LEFT TURN ARROW AND ONLY (LEGEND)	SQ.FT.	115
26	THERMO RIGHT TURN ARROW AND ONLY (LEGEND)	SQ.FT.	0
27	THERMO LEFT TURN AND THRU ARROW (LEGEND)	SQ.FT.	0
28	THERMO RIGHT TURN AND THRU ARROW (LEGEND)	SQ.FT.	0
29	THERMO THRU ARROW (LEGEND)	SQ.FT.	0
30	BICYCLE PAVEMENT MARKING	SQ.FT.	0
31	4" THERMO (DETAIL WHITE)	LIN. FT.	0
32	4" THERMO (DETAIL YELLOW)	LIN. FT.	0
33	HANDICAPPED PAVEMENT MARKING (BLUE)	SQ.FT.	0
* Symbol number enclosed with circle (example ①).			
Note: 12", 18", and 24" Quantities are measured in 6" equivalent lengths.			
Note: 8" Quantities are measured in 4" equivalent lengths.			

SCALE: 1' = 40'

			BY	PAVEMENT MARKING ARLINGTON LOOP	
			REVISION		
			DATE	ENGINEER: THE WALKER ASSOCIATES, PLLC	WORKING NUMBER PMD-7
				FILENAME: 178-11 Pavement Marking.dwg	SHEET NUMBER 9.6
				CHECKED BY DBG DATE Jul 09, 2020	

CHECKED BY: DBG

DRAWN BY: JGK

DESIGNED BY: DBG

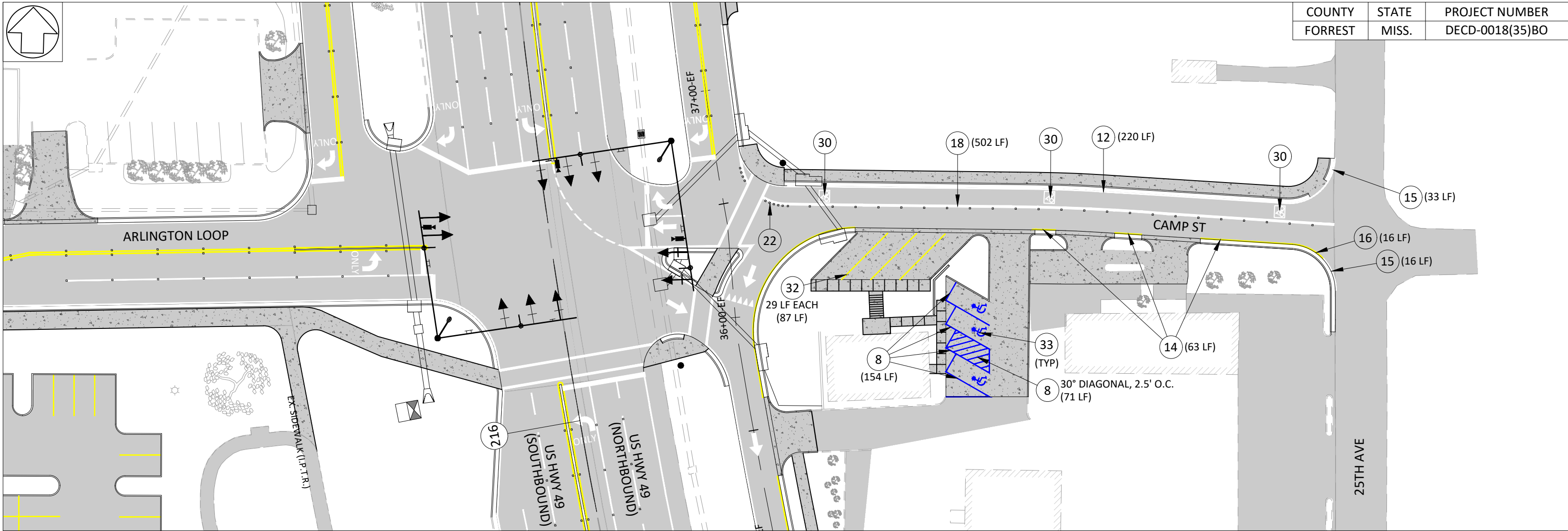
COUNTY: FORREST

Jul 09, 2020 - 10:28pm

PMD-8

FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Pavement Marking.dwg

DESIGN TEAM: THE WALKER ASSOCIATES, PLLC



*SYMBOL #	DESCRIPTION	UNIT	QUANTITY
1	4" THERMO EDGE (CONT. WHITE)	MI.	0.0000
2	4" THERMO EDGE (CONT. YELLOW)	MI.	0.0000
3	4" THERMO (CONT. WHITE)	MI.	0.0000
4	4" THERMO (CONT. YELLOW)	MI.	0.0000
5	4" THERMO (SKIP YELLOW)	MI.	0.0000
6	8" THERMO (DETAIL WHITE)	LIN. FT.	0
7	8" THERMO (DETAIL WHITE) DIAGONAL	LIN. FT.	0
8	4" THERMOPLASTIC DETAIL STRIPE, BLUE	LIN. FT.	225
9	24" THERMO (LEGEND WHITE) (STOP BAR)	LIN. FT.	0
10	6" THERMO TRAFFIC STRIPE (SKIP WHITE)	LIN. FT.	0
11	6" THERMO (CONT. WHITE)	LIN. FT.	0
12	6" THERMO EDGE (CONT. WHITE)	LIN. FT.	220
13	6" THERMO (CONT. YELLOW)	LIN. FT.	0
14	6" THERMO EDGE (CONT. YELLOW)	LIN. FT.	63
15	6" THERMO (DETAIL WHITE)	LIN. FT.	49
16	6" THERMO (DETAIL YELLOW)	LIN. FT.	16
17	6" THERMO (DETAIL SKIP WHITE) 2' STRIP - 6' GAP	LIN. FT.	0
18	12" THERMO (DETAIL WHITE)	LIN. FT.	502

*SYMBOL #	DESCRIPTION	UNIT	QUANTITY
19	YIELD BAR	SQ.FT.	0
20	THERMO DO NOT BLOCK (LEGEND)	SQ.FT.	0
21	24" THERMO (DETAIL WHITE)	LIN. FT.	0
22	RED-CLEAR REFLECTIVE RAISED MARKERS	EACH	29
23	TWO-WAY YELLOW REFLECTIVE RAISED MARKERS	EACH	0
24	THERMO TURN ARROW (LEGEND)	SQ.FT.	0
25	THERMO LEFT TURN ARROW AND ONLY (LEGEND)	SQ.FT.	0
26	THERMO RIGHT TURN ARROW AND ONLY (LEGEND)	SQ.FT.	0
27	THERMO LEFT TURN AND THRU ARROW (LEGEND)	SQ.FT.	0
28	THERMO RIGHT TURN AND THRU ARROW (LEGEND)	SQ.FT.	0
29	THERMO THRU ARROW (LEGEND)	SQ.FT.	0
30	BICYCLE PAVEMENT MARKING	SQ.FT.	19
31	4" THERMO (DETAIL WHITE)	LIN. FT.	0
32	4" THERMO (DETAIL YELLOW)	LIN. FT.	87
33	HANDICAPPED PAVEMENT MARKING (BLUE)	SQ.FT.	20

* Symbol number enclosed with circle (example ①).

Note: 12", 18", and 24" Quantities are measured in 6" equivalent lengths.

Note: 8" Quantities are measured in 4" equivalent lengths.

SCALE: 1' = 40'

			BY	PAVEMENT MARKING CAMP STREET	
			REVISION		
			DATE	ENGINEER: THE WALKER ASSOCIATES, PLLC	WORKING NUMBER PMD-8
				FILENAME: 178-11 Pavement Marking.dwg	SHEET NUMBER 9.7
				CHECKED BY: DBG DATE: Jul 09, 2020	

CHECKED BY: DBG

DRAWN BY: JGK

DESIGNED BY: DBG

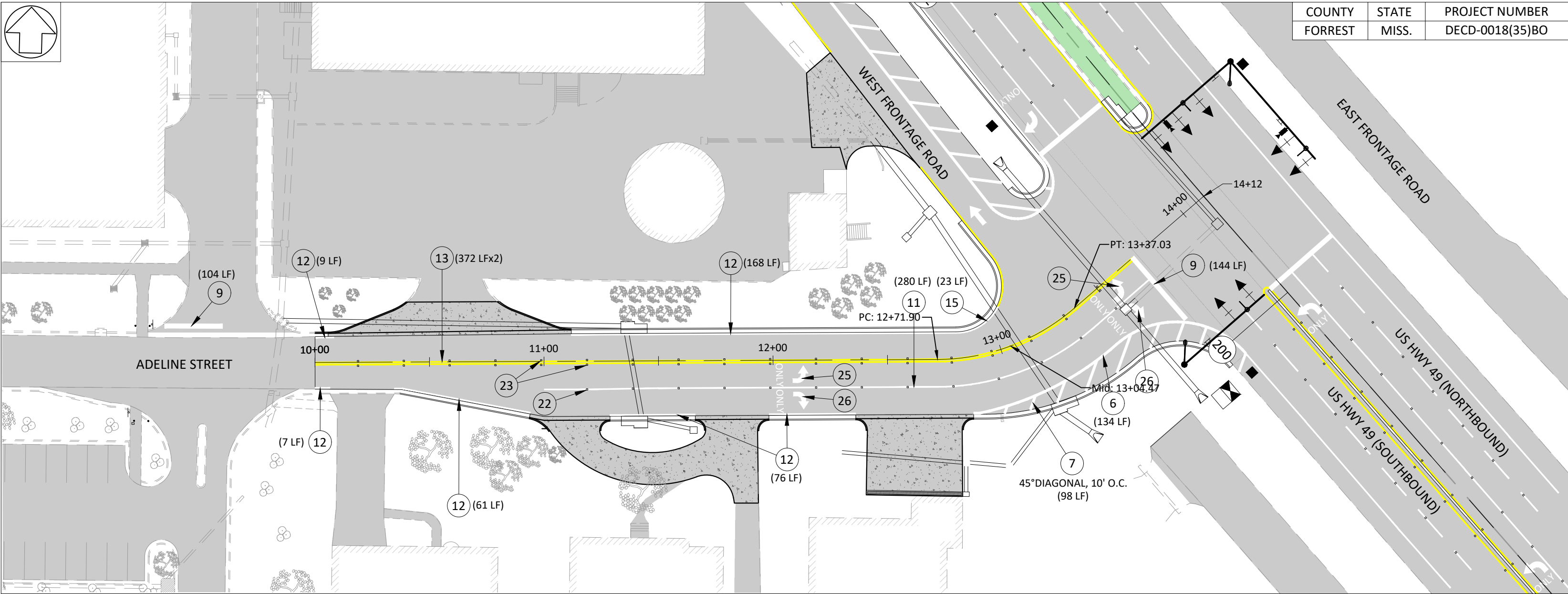
COUNTY: FORREST

Jul 09, 2020 - 10:28pm

PMD-9

FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Pavement Marking.dwg

DESIGN TEAM: THE WALKER ASSOCIATES, PLLC

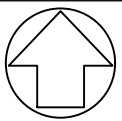


*SYMBOL #	DESCRIPTION	UNIT	QUANTITY
1	4" THERMO EDGE (CONT. WHITE)	MI.	0.0000
2	4" THERMO EDGE (CONT. YELLOW)	MI.	0.0000
3	4" THERMO (CONT. WHITE)	MI.	0.0000
4	4" THERMO (CONT. YELLOW)	MI.	0.0000
5	4" THERMO (SKIP YELLOW)	MI.	0.0000
6	8" THERMO (DETAIL WHITE)	LIN. FT.	134
7	8" THERMO (DETAIL WHITE) DIAGONAL	LIN. FT.	98
8	4" THERMOPLASTIC DETAIL STRIPE, BLUE	LIN. FT.	0
9	24" THERMO (LEGEND WHITE) (STOP BAR)	LIN. FT.	248
10	6" THERMO TRAFFIC STRIPE (SKIP WHITE)	LIN. FT.	0
11	6" THERMO (CONT. WHITE)	LIN. FT.	280
12	6" THERMO EDGE (CONT. WHITE)	LIN. FT.	321
13	6" THERMO (CONT. YELLOW)	LIN. FT.	744
14	6" THERMO EDGE (CONT. YELLOW)	LIN. FT.	0
15	6" THERMO (DETAIL WHITE)	LIN. FT.	23
16	6" THERMO (DETAIL YELLOW)	LIN. FT.	0
17	6" THERMO (DETAIL SKIP WHITE) 2' STRIP - 6' GAP	LIN. FT.	0
18	12" THERMO (DETAIL WHITE)	LIN. FT.	0

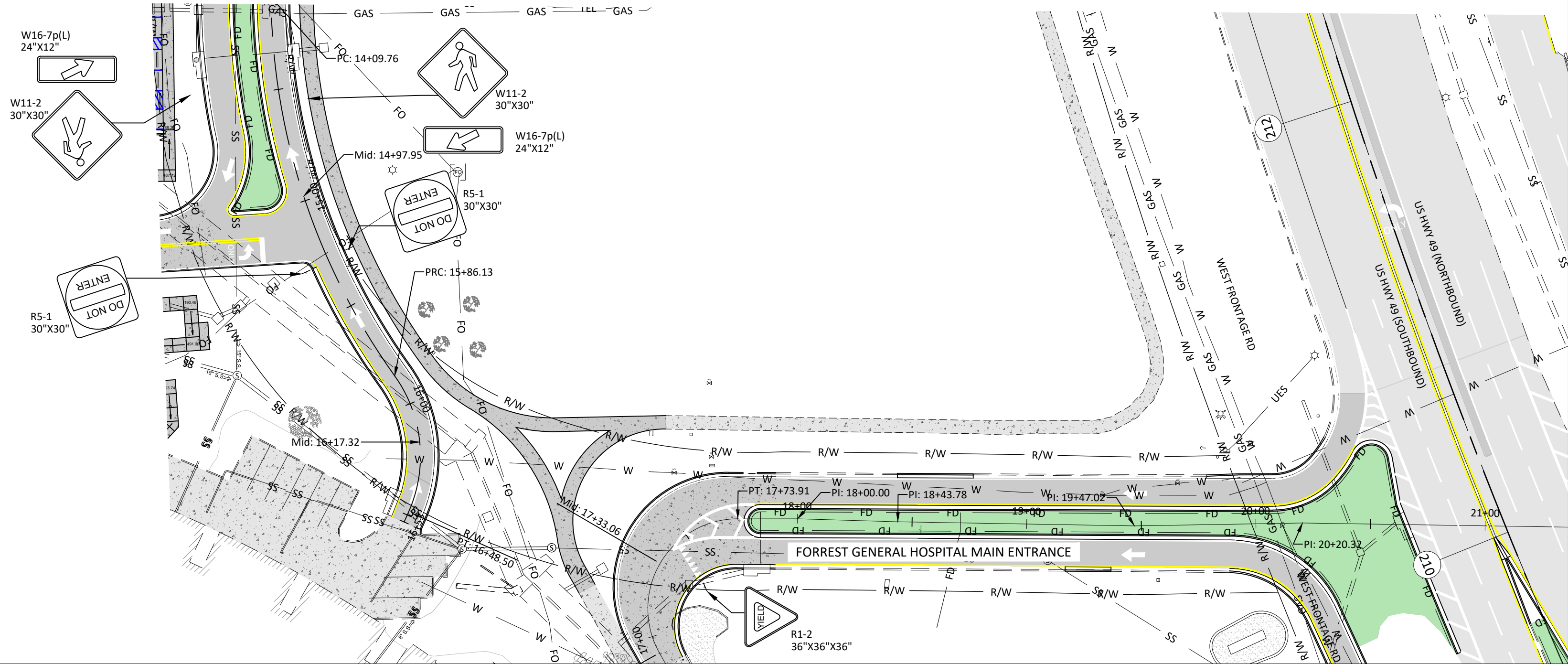
*SYMBOL #	DESCRIPTION	UNIT	QUANTITY
19	YIELD BAR	SQ.FT.	0
20	THERMO DO NOT BLOCK (LEGEND)	SQ.FT.	0
21	24" THERMO (DETAIL WHITE)	LIN. FT.	0
22	RED-CLEAR REFLECTIVE RAISED MARKERS	EACH	13
23	TWO-WAY YELLOW REFLECTIVE RAISED MARKERS	EACH	36
24	THERMO TURN ARROW (LEGEND)	SQ.FT.	0
25	THERMO LEFT TURN ARROW AND ONLY (LEGEND)	SQ.FT.	77
26	THERMO RIGHT TURN ARROW AND ONLY (LEGEND)	SQ.FT.	77
27	THERMO LEFT TURN AND THRU ARROW (LEGEND)	SQ.FT.	0
28	THERMO RIGHT TURN AND THRU ARROW (LEGEND)	SQ.FT.	0
29	THERMO THRU ARROW (LEGEND)	SQ.FT.	0
30	BICYCLE PAVEMENT MARKING	SQ.FT.	0
31	4" THERMO (DETAIL WHITE)	LIN. FT.	0
32	4" THERMO (DETAIL YELLOW)	LIN. FT.	0
33	HANDICAPPED PAVEMENT MARKING (BLUE)	SQ.FT.	0
* Symbol number enclosed with circle (example ①).			
Note: 12", 18", and 24" Quantities are measured in 6" equivalent lengths.			
Note: 8" Quantities are measured in 4" equivalent lengths.			

SCALE: 1' = 40'

			BY	PAVEMENT MARKING ADELINE STREET	
			REVISION		
			DATE	ENGINEER: THE WALKER ASSOCIATES, PLLC	WORKING NUMBER PMD-9
				FILENAME: 178-11 Pavement Marking.dwg	SHEET NUMBER 9.8
				CHECKED BY DBG DATE Jul 09, 2020	



COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD-0018(35)BO



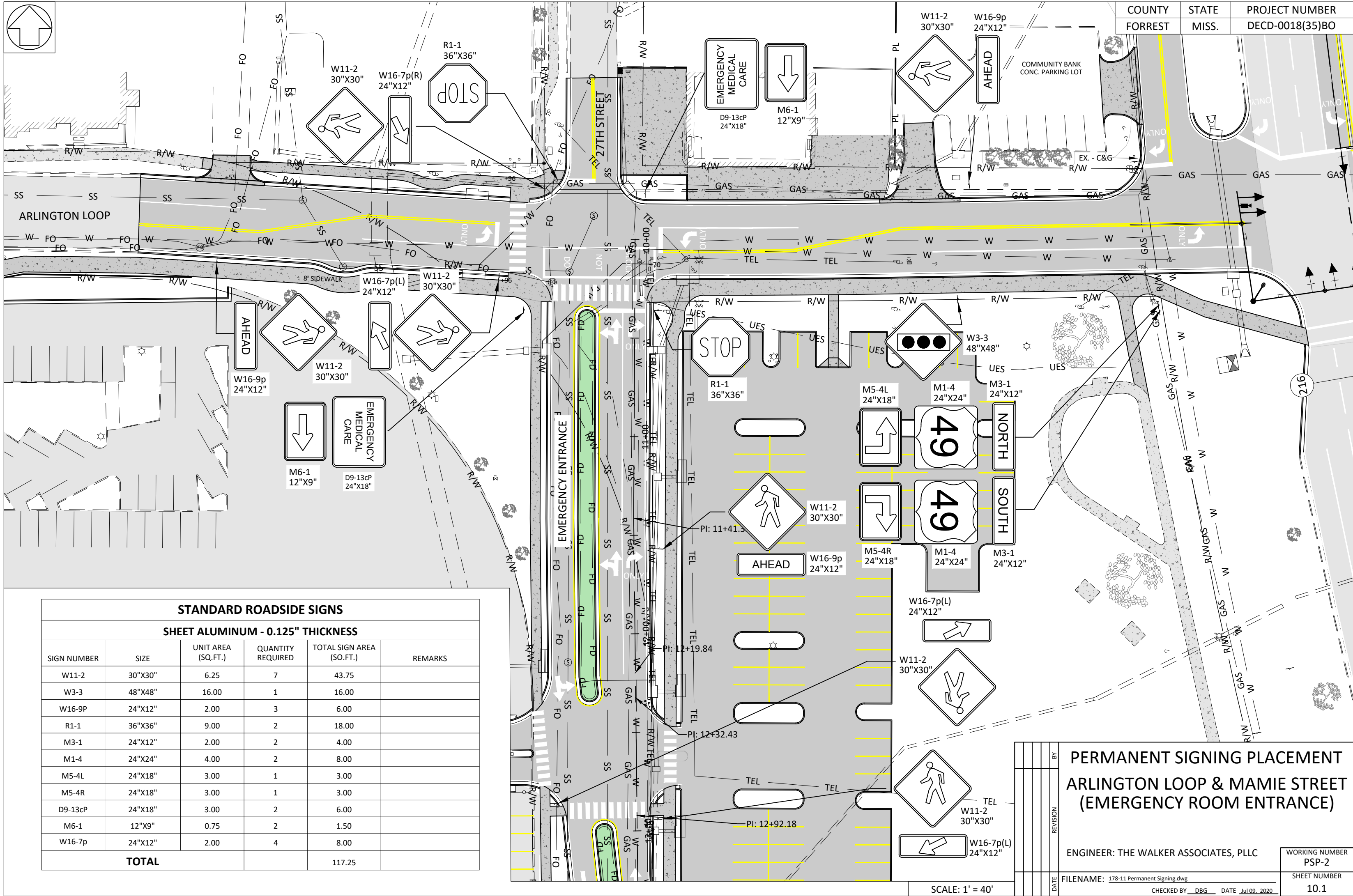
STANDARD ROADSIDE SIGNS					
SHEET ALUMINUM - 0.125" THICKNESS					
SIGN NUMBER	SIZE	UNIT AREA (SQ.FT.)	QUANTITY REQUIRED	TOTAL SIGN AREA (SQ.FT.)	REMARKS
R1-2	36"X36"X36"	4.50	2	9.00	
R5-1	30"X30"	6.25	2	12.50	
TOTAL				21.50	

SCALE: 1' = 40'

					BY	PERMANENT SIGNING PLACEMENT									
						MAMIE STREET									
						(FORREST GENERAL HOSPITAL MAIN ENTRANCE)									
					REVISION	ENGINEER: THE WALKER ASSOCIATES, PLLC									
						WORKING NUMBER PSP-1									
						SHEET NUMBER 10.0									
					DATE	FILENAME: 178-11 Permanent Signing.dwg									
						CHECKED BY DBG DATE Jul 09, 2020									

FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Permanent Signing.dwg
PSP2
Jul 09, 2020 - 10:32pm
COUNTY: FORREST
DESIGNED BY: DBG
DRAWN BY: DBG
CHECKED BY: DEW

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD-0018(35)BO



STANDARD ROADSIDE SIGNS					
SHEET ALUMINUM - 0.125" THICKNESS					
SIGN NUMBER	SIZE	UNIT AREA (SQ.FT.)	QUANTITY REQUIRED	TOTAL SIGN AREA (SQ.FT.)	REMARKS
W11-2	30"X30"	6.25	7	43.75	
W3-3	48"X48"	16.00	1	16.00	
W16-9P	24"X12"	2.00	3	6.00	
R1-1	36"X36"	9.00	2	18.00	
M3-1	24"X12"	2.00	2	4.00	
M1-4	24"X24"	4.00	2	8.00	
M5-4L	24"X18"	3.00	1	3.00	
M5-4R	24"X18"	3.00	1	3.00	
D9-13cP	24"X18"	3.00	2	6.00	
M6-1	12"X9"	0.75	2	1.50	
W16-7p	24"X12"	2.00	4	8.00	
TOTAL				117.25	

PERMANENT SIGNING PLACEMENT
ARLINGTON LOOP & MAMIE STREET
(EMERGENCY ROOM ENTRANCE)

ENGINEER: THE WALKER ASSOCIATES, PLLC

WORKING NUMBER
PSP-2

FILENAME: 178-11 Permanent Signing.dwg

SHEET NUMBER
10.1

DATE	REVISION	BY

SCALE: 1' = 40'

CHECKED BY: DBG
DATE: Jul 09, 2020

CHECKED BY: DEW

DRAWN BY: DBG

DESIGNED BY: DBG

COUNTY: FORREST

Jul 09, 2020 - 10:33pm

PSP3

FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Permanent Signing.dwg

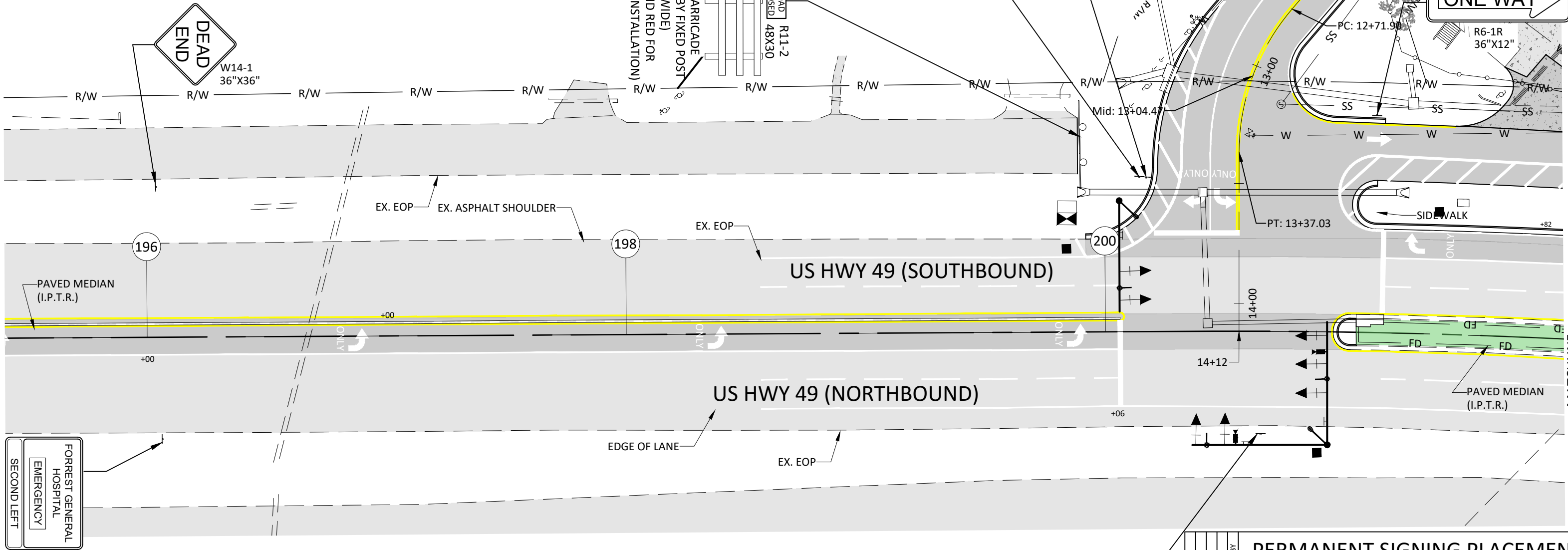
DESIGN TEAM: THE WALKER ASSOCIATES, PLLC



STANDARD ROADSIDE SIGNS

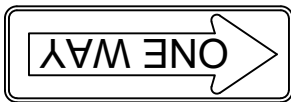
SHEET ALUMINUM - 0.125" THICKNESS

SIGN NUMBER	SIZE	UNIT AREA (SQ.FT.)	QUANTITY REQUIRED	TOTAL SIGN AREA (SQ.FT.)	REMARKS
TYPE III BARRICADE			1	L.S.	ADELINE STREET
W3-3	48"X48"	16.00	1	16.00	
W14-1	36"X36"	9.00	1	9.00	
R6-1L	36"X12"	3.00	1	3.00	
R6-1R	36"X12"	3.00	1	3.00	
R11-2	48"X30"	10.00	1	10.00	
M3-1	24"X12"	2.00	2	4.00	
M1-4	24"X24"	4.00	2	8.00	
M5-4L	24"X18"	3.00	1	3.00	
M5-4R	24"X18"	3.00	1	3.00	
D9-18C	72"X60"	30.00	1	30.00	
SPECIAL SIGN	X" X X"	X	X	#VALUE!	
TOTAL				#VALUE!	



FORREST GENERAL
HOSPITAL
EMERGENCY
SECOND LEFT

SPECIAL SIGN
156" X 90"
(SEE SHEET MD-11 FOR DETAIL)



R6-1L
36"X12"

PERMANENT SIGNING PLACEMENT
US HWY 49
(STA. 195+40 TO STA. 201+84)

ENGINEER: THE WALKER ASSOCIATES, PLLC

FILENAME: 178-11 Permanent Signing.dwg

CHECKED BY: DBG DATE: Jul 09, 2020

WORKING NUMBER
PSP-3

SHEET NUMBER
10.2

SCALE: 1' = 40'

CHECKED BY: DEW

DRAWN BY: DBG

DESIGNED BY: DBG

COUNTY: FORREST

Jul 09, 2020 - 10:33pm

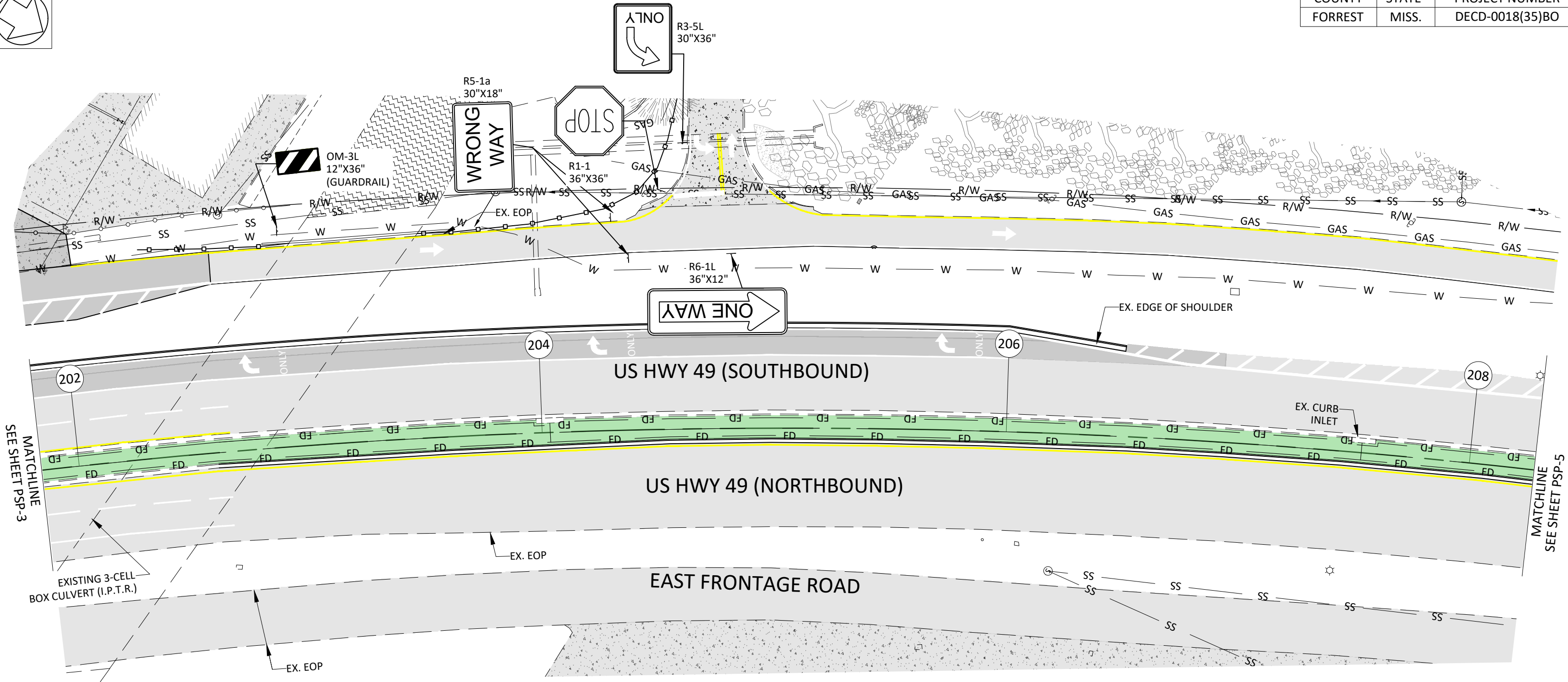
PSP4

FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Permanent Signing.dwg

DESIGN TEAM: THE WALKER ASSOCIATES, PLLC



COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD-0018(35)BO



STANDARD ROADSIDE SIGNS					
SHEET ALUMINUM - 0.125" THICKNESS					
SIGN NUMBER	SIZE	UNIT AREA (SQ.FT.)	QUANTITY REQUIRED	TOTAL SIGN AREA (SQ.FT.)	REMARKS
R1-1	36"X36"	9.00	1	9.00	
R6-1L	36"X12"	3.00	1	3.00	
R5-1a	30"X18"	3.75	2	7.50	
R3-5L	30"X36"	7.50	1	7.50	
OM-3L	12"X36"	3.00	1	3.00	
TOTAL				30.00	

SCALE: 1' = 40'

				BY	PERMANENT SIGNING PLACEMENT	
					US HWY 49	
				REVISION	(STA. 201+84 TO STA. 208+30)	
					ENGINEER: THE WALKER ASSOCIATES, PLLC	WORKING NUMBER PSP-4
			DATE	FILENAME: 178-11 Permanent Signing.dwg		SHEET NUMBER
				CHECKED BY <u>DBG</u> DATE <u>Jul 09, 2020</u>		10.3

CHECKED BY: DEW

DRAWN BY: DBG

DESIGNED BY: DBG

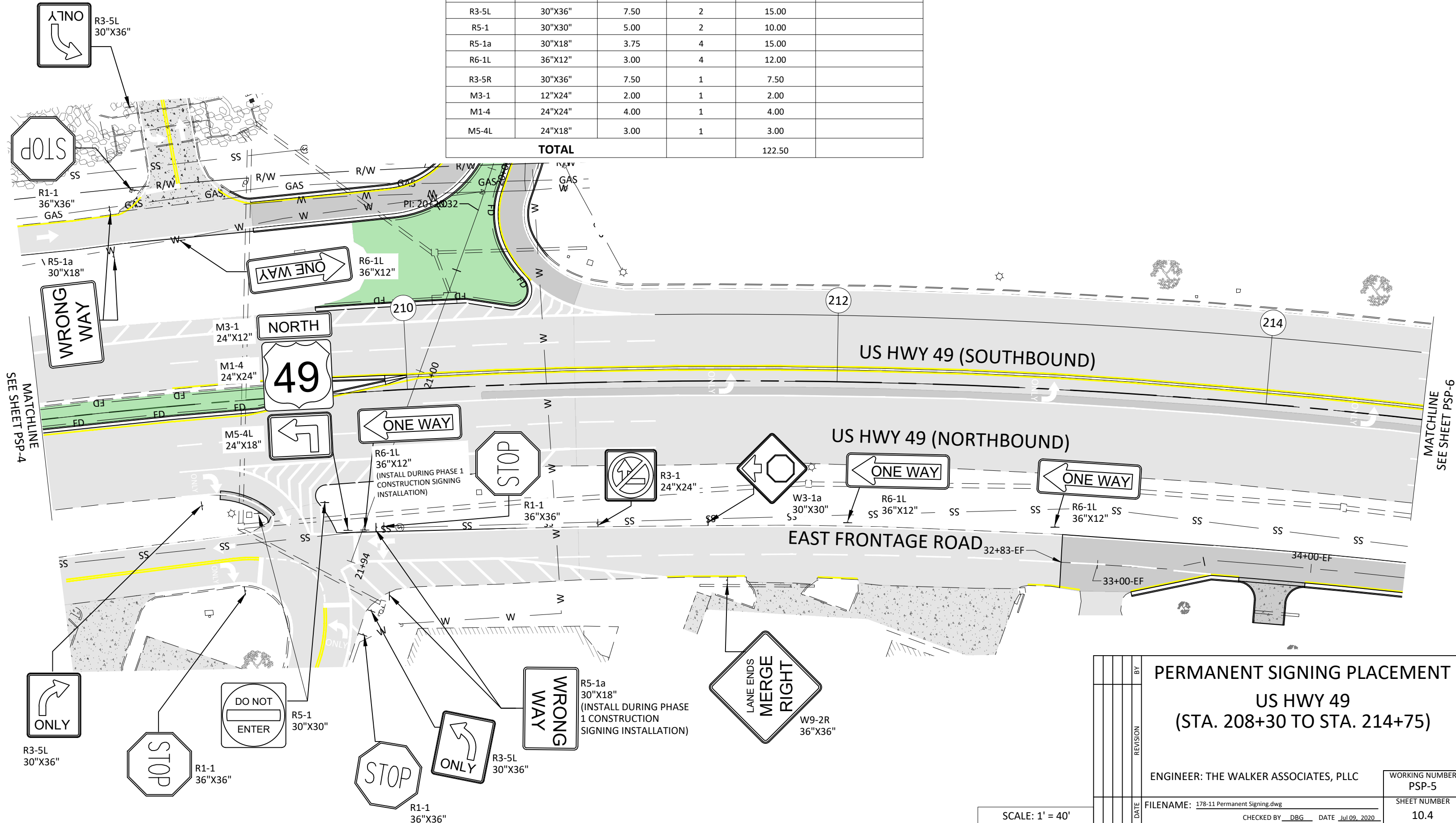
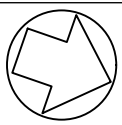
COUNTY: FORREST

Jul 09, 2020 - 10:33pm

PSP5

FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Permanent Signing.dwg

DESIGN TEAM: THE WALKER ASSOCIATES, PLLC



STANDARD ROADSIDE SIGNS					
SHEET ALUMINUM - 0.125" THICKNESS					
SIGN NUMBER	SIZE	UNIT AREA (SQ.FT.)	QUANTITY REQUIRED	TOTAL SIGN AREA (SQ.FT.)	REMARKS
W3-1a	30"X30"	5.00	1	5.00	
W9-2L	36"X36"	9.00	0	0.00	
W9-2R	36"X36"	9.00	1	9.00	
R1-1	36"X36"	9.00	4	36.00	
R3-1	24"X24"	4.00	1	4.00	
R3-5L	30"X36"	7.50	2	15.00	
R5-1	30"X30"	5.00	2	10.00	
R5-1a	30"X18"	3.75	4	15.00	
R6-1L	36"X12"	3.00	4	12.00	
R3-5R	30"X36"	7.50	1	7.50	
M3-1	12"X24"	2.00	1	2.00	
M1-4	24"X24"	4.00	1	4.00	
M5-4L	24"X18"	3.00	1	3.00	
TOTAL				122.50	

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD-0018(35)BO

BY

REVISION

DATE

PERMANENT SIGNING PLACEMENT

US HWY 49

(STA. 208+30 TO STA. 214+75)

ENGINEER: THE WALKER ASSOCIATES, PLLC

FILENAME: 178-11 Permanent Signing.dwg

CHECKED BY: DBG DATE: Jul 09, 2020

WORKING NUMBER

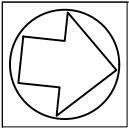
PSP-5

SHEET NUMBER

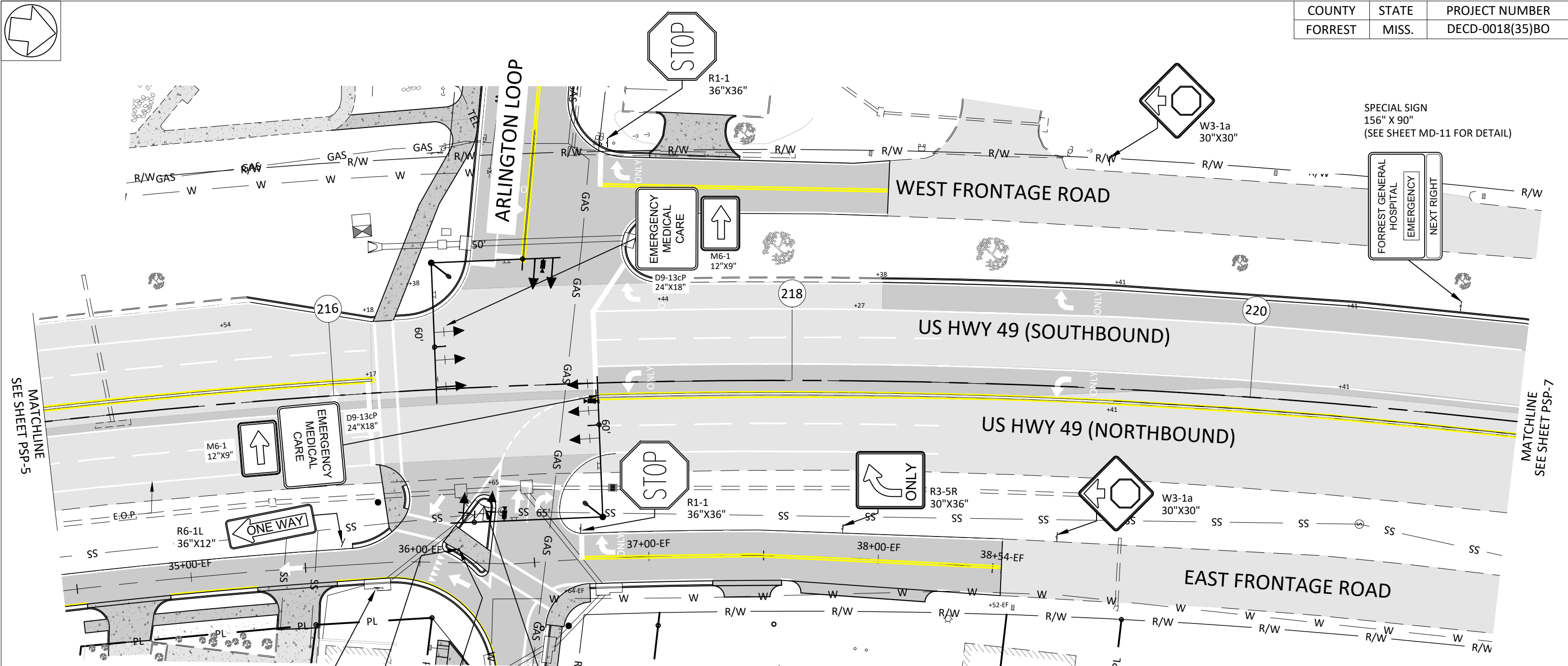
10.4

SCALE: 1' = 40'

CHECKED BY: DEW
DRAWN BY: DBG
DESIGNED BY: DBG
COUNTY: FORREST
Jul 09, 2020 - 10:33pm
PSP6
FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Permanent Signing.dwg
DESIGN TEAM: THE WALKER ASSOCIATES, PLLC



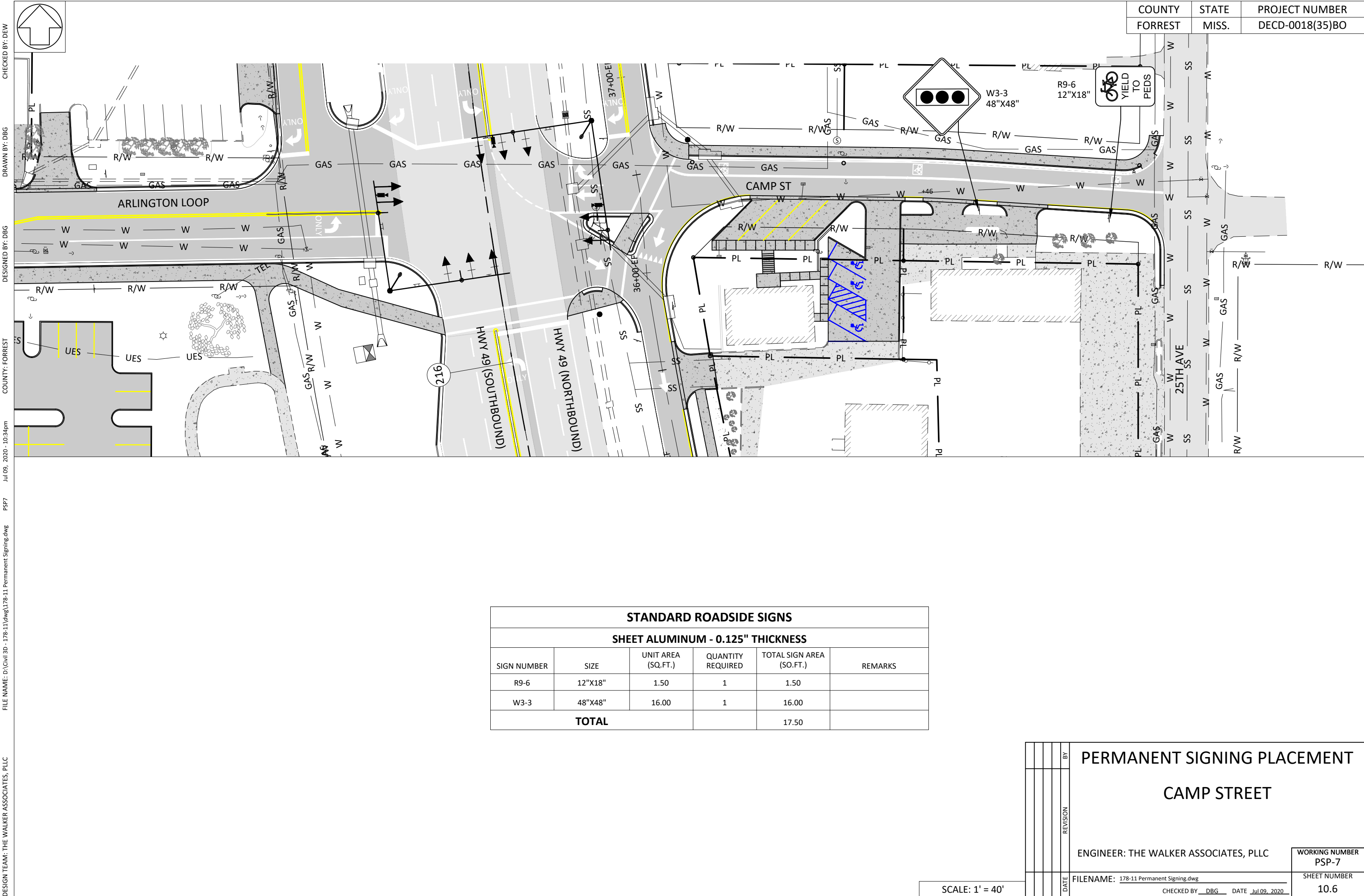
COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD-0018(35)BO

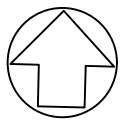


STANDARD ROADSIDE SIGNS					
SHEET ALUMINUM - 0.125" THICKNESS					
SIGN NUMBER	SIZE	UNIT AREA (SQ.FT.)	QUANTITY REQUIRED	TOTAL SIGN AREA (SQ.FT.)	REMARKS
W3-1a	30"X30"	5.00	2	10.00	
R1-1	36"X36"	9.00	2	18.00	
R1-2	36"X36"X36"	4.50	1	4.50	
R3-5R	30"X36"	7.50	1	7.50	
R5-1	30"X30"	5.00	1	5.00	
D9-13cP	24"X18"	3.00	2	6.00	
M6-1	12"X9"	0.75	2	1.50	
R6-1L	36"X12"	3.00	1	3.00	
R6-1R	36"X12"	3.00	1	3.00	
R4-7	30"X24"	5.00	1	5.00	
D9-18C	72"X60"	30.00	1	30.00	
SPECIAL SIGN	X" X X"	X	X	#VALUE!	
TOTAL				#VALUE!	

SCALE: 1' = 40'

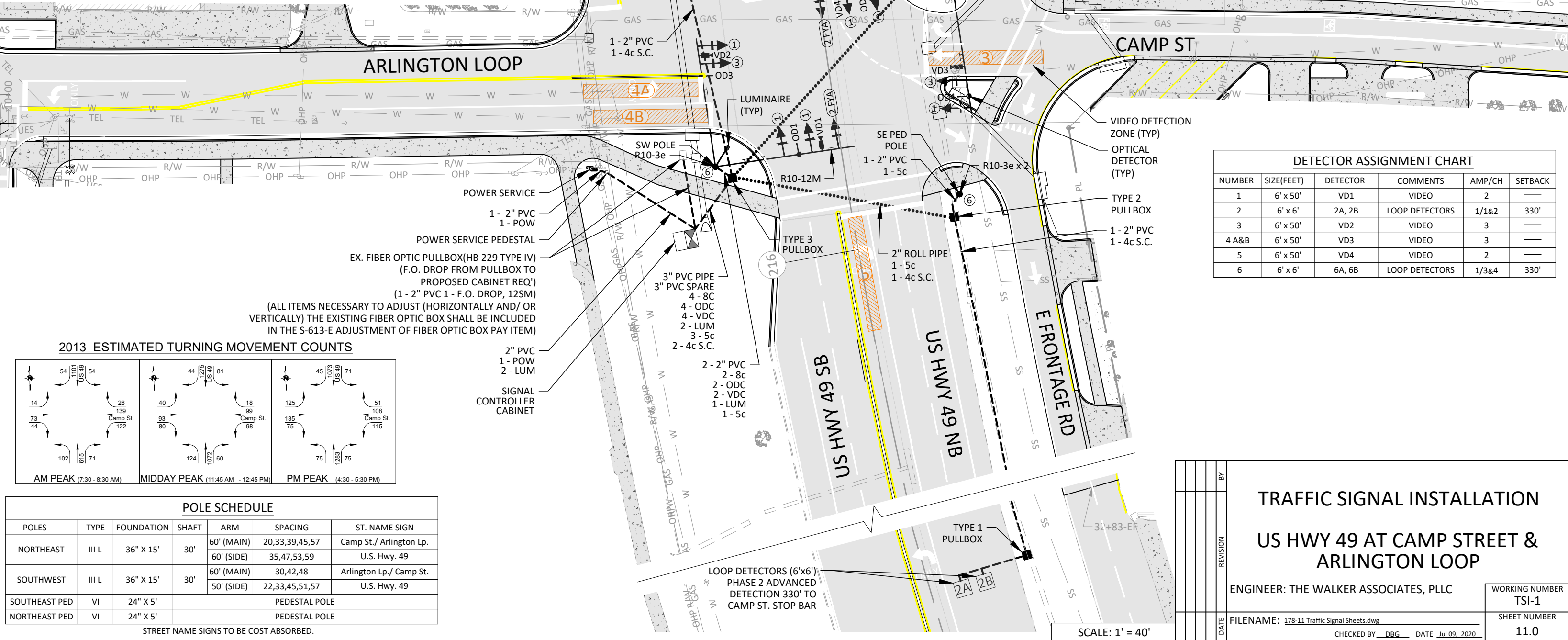
		BY	PERMANENT SIGNING PLACEMENT	
		REVISION	US HWY 49 (STA. 214+75 TO STA. 221+20)	
		DATE	ENGINEER: THE WALKER ASSOCIATES, PLLC	WORKING NUMBER PSP-6
			FILENAME: 178-11 Permanent Signing.dwg	SHEET NUMBER 10.5
			CHECKED BY: DBG	DATE: Jul 09, 2020





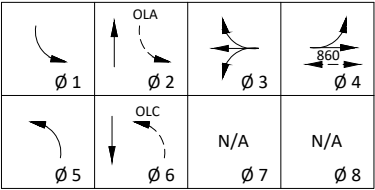
GENERAL NOTES:

- ALL SIGNS, SIGNALS, PAVEMENT MARKINGS AND TEMPORARY TRAFFIC CONTROL DEVICES ARE TO CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION).
- THE CONTRACTOR WILL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES BEFORE BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL PROTECT ALL UTILITIES FROM DAMAGE DURING CONSTRUCTION AND SHALL REPAIR ANY DAMAGED UTILITIES AT NO ADDITIONAL COST, INCLUDING ANY NOT SHOWN ON THE CONSTRUCTION PLANS.
- ALL POLES, PULLBOXES AND CONTROLLERS SHALL BE LOCATED IN THE FIELD BY THE ENGINEER AND THE CONTRACTOR AT THE MOST PRACTICAL LOCATION NEAREST TO THE POSITION INDICATED ON THE PLANS.
- ALL MAST ARM SIGNAL POLES SHALL BE POWDER COATED BLACK. POLES SHALL BE RATED FOR A 120 MPH WIND LOAD.
- ALL RAISED OBJECTS SHALL BE A MINIMUM OF 2.5 FEET BEHIND THE BACK OF THE CURB, AND TRAFFIC SIGNAL POLES SHALL BE A MINIMUM OF 6 FEET BEHIND THE BACK OF THE CURB.
- SIGNAL TIMINGS TO BE PROVIDED BY THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING THE APPLICATION FOR POWER SERVICE IN ADVANCE OF REQUIRING ELECTRICAL SERVICE. ALL ITEMS NECESSARY FOR POWER SERVICE INCLUDING CONDUIT AND WIRING FROM POLE TO CABINET SHALL BE ABSORBED.
- BACKPLATES SHALL BE REQUIRED FOR ALL SIGNAL HEADS. SIGNAL HEADS SHALL BE YELLOW WITH BLACK BACKPLATES.
- ALL MATERIAL AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, MISSISSIPPI DEPARTMENT OF TRANSPORTATION, 2004 EDITION".
- TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
- A 30" X 36" R10-12M (LEFT TURN YIELD ON FLASHING YELLOW ARROW) SHALL BE REQUIRED TO THE RIGHT OF EACH TYPE 2 FYA SIGNAL HEAD.
- CABINET CONSTRUCTION SHALL BE IN ACCORDANCE TO THE HATTIESBURG TYPE (AS PER PREVIOUS INSTALLATIONS IN THE CITY OF HATTIESBURG, MS).
- CONTACT MDOTTRAFFIC AT (601-359-1454) FOR FIBER ALLOCATION AND BEFORE SCHEDULING WORK ON FIBER SPLICING.
- COORDINATE FIBER CONNECTIONS WITH MDOT DISTRICT 6 OFFICE.
- CONTACT MDOT DISTRICT 6 FOR ANY IP ADDRESSES FOR ANY APPLICABLE DEVICES.
- ALL STREET NAME SIGNS, APS PUSHBUTTONS, AND LUMINAIRE CABLE ARE TO BE COST ABSORBED.



COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

PHASING



VOLUME/DENSITY REQUIRED FOR PHASES 2 & 6.
MINIMUM RECALL REQUIRED FOR PHASES 2 & 6.
FLASHING OPERATION:
PHASES 3, 4, OLA, OLC - RED
PHASES 2 & 6 - YELLOW
PHASES 1 & 5 - NO FLASH

EMERGENCY PRE-EMPTION

DETECTOR	CHANNEL	PHASES
OD1	1	1,6, OLA
OD2	2	2,5, OLC
OD3	3	3
OD4	4	4

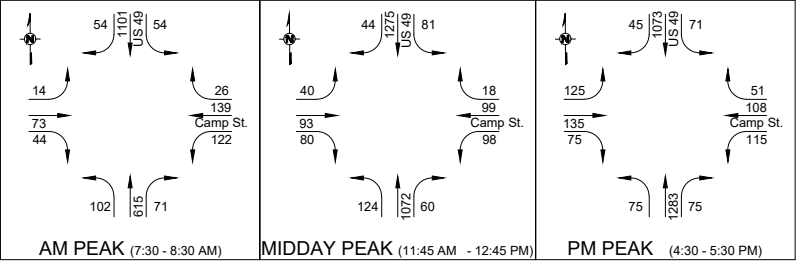
OVERLAP CHART

	-G/Y	+GRN	RED
OLA	1	2	3.00
OLC	5	6	3.00

DETECTOR ASSIGNMENT CHART

NUMBER	SIZE(FEET)	DETECTOR	COMMENTS	AMP/CH	SETBACK
1	6' x 50'	VD1	VIDEO	2	---
2	6' x 6'	2A, 2B	LOOP DETECTORS	1/1&2	330'
3	6' x 50'	VD2	VIDEO	3	---
4 A&B	6' x 50'	VD3	VIDEO	3	---
5	6' x 50'	VD4	VIDEO	2	---
6	6' x 6'	6A, 6B	LOOP DETECTORS	1/3&4	330'

2013 ESTIMATED TURNING MOVEMENT COUNTS



POLE SCHEDULE

POLES	TYPE	FOUNDATION	SHAFT	ARM	SPACING	ST. NAME SIGN
NORTHEAST	III L	36" X 15'	30'	60' (MAIN)	20,33,39,45,57	Camp St./ Arlington Lp.
				60' (SIDE)	35,47,53,59	U.S. Hwy. 49
SOUTHWEST	III L	36" X 15'	30'	60' (MAIN)	30,42,48	Arlington Lp./ Camp St.
				50' (SIDE)	22,33,45,51,57	U.S. Hwy. 49
SOUTHEAST PED	VI	24" X 5'	PEDESTAL POLE			
NORTHEAST PED	VI	24" X 5'	PEDESTAL POLE			

STREET NAME SIGNS TO BE COST ABSORBED.

TRAFFIC SIGNAL INSTALLATION

US HWY 49 AT CAMP STREET & ARLINGTON LOOP

ENGINEER: THE WALKER ASSOCIATES, PLLC

WORKING NUMBER
TSI-1

FILENAME: 178-11 Traffic Signal Sheets.dwg

SHEET NUMBER
11.0

CHECKED BY: DBG DATE: Jul 09, 2020

CHECKED BY: DBG

DRAWN BY: BUL

DESIGNED BY: DBG

COUNTY: FORREST

Jul 09, 2020 - 10:35pm

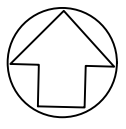
TSI-1

FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Traffic Signal Sheets.dwg

DESIGN TEAM: THE WALKER ASSOCIATES, PLLC

SCALE: 1' = 40'

FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Traffic Signal Sheets.dwg
DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
TSS-2
Jul 09, 2020 - 10:36pm
COUNTY: FORREST
DESIGNED BY: DBG
DRAWN BY: BUL
CHECKED BY: DBG



COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

DETECTOR ASSIGNMENT CHART

NUMBER	SIZE(FEET)	DETECTOR	COMMENTS	AMP/CH	SETBACK
2	6' x 6'	2A, 2B	LOOP DETECTORS	1/1&2	
4	6' x 50'	VD1	VIDEO	2	
5	6' x 50'	VD2	VIDEO	3	
6	6' x 6'	6A, 6B	LOOP DETECTORS	1/3&4	

OVERLAP CHART

	-G/Y	+GRN	RED
OLC	5	6	3.00

GENERAL NOTES:

- ALL SIGNS, SIGNALS, PAVEMENT MARKINGS AND TEMPORARY TRAFFIC CONTROL DEVICES ARE TO CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION).
- THE CONTRACTOR WILL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES BEFORE BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL PROTECT ALL UTILITIES FROM DAMAGE DURING CONSTRUCTION AND SHALL REPAIR ANY DAMAGED UTILITIES AT NO ADDITIONAL COST, INCLUDING ANY NOT SHOWN ON THE CONSTRUCTION PLANS.
- ALL POLES, PULLBOXES AND CONTROLLERS SHALL BE LOCATED IN THE FIELD BY THE ENGINEER AND THE CONTRACTOR AT THE MOST PRACTICAL LOCATION NEAREST TO THE POSITION INDICATED ON THE PLANS.
- ALL MAST ARM SIGNAL POLES SHALL BE POWDER COATED BLACK. POLES SHALL BE RATED FOR A 120 MPH WIND LOAD.
- ALL RAISED OBJECTS SHALL BE A MINIMUM OF 2.5 FEET BEHIND THE BACK OF THE CURB, AND TRAFFIC SIGNAL POLES SHALL BE A MINIMUM OF 6 FEET BEHIND THE BACK OF THE CURB.
- SIGNAL TIMINGS TO BE PROVIDED BY THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING THE APPLICATION FOR POWER SERVICE IN ADVANCE OF REQUIRING ELECTRICAL SERVICE.
- BACKPLATES SHALL BE REQUIRED FOR ALL SIGNAL HEADS. SIGNAL HEADS SHALL BE YELLOW WITH BLACK BACKPLATES.
- ALL MATERIAL AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, MISSISSIPPI DEPARTMENT OF TRANSPORTATION, 2004 EDITION".
- TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
- A 30" X 36" R10-12M (LEFT TURN YIELD ON FLASHING YELLOW ARROW) SHALL BE REQUIRED TO THE RIGHT OF EACH TYPE 2 FYA SIGNAL HEAD.
- CABINET CONSTRUCTION SHALL BE IN ACCORDANCE TO THE HATTIESBURG TYPE (AS PER PREVIOUS INSTALLATIONS IN THE CITY OF HATTIESBURG, MS).
- COORDINATE FIBER CONNECTIONS WITH MDOT DISTRICT 6 OFFICE.
- CONTACT MDOT DISTRICT 6 FOR ANY IP ADDRESSES FOR ANY APPLICABLE DEVICES.
- ALL STREET NAME SIGNS, APS PUSHBUTTONS, AND LUMINAIRE CABLE ARE TO BE COST ABSORBED.

EMERGENCY PRE-EMPTION

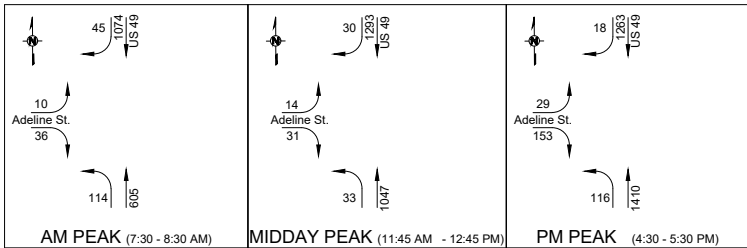
DETECTOR	CHANNEL	PHASES
OD1	1	6
OD2	2	2,5, OLC
OD4	4	4

PHASING

N/A	Ø 1	Ø 2	N/A	Ø 3	Ø 4
Ø 5	Ø 6	Ø 7	N/A	Ø 8	

VOLUME/DENSITY REQUIRED FOR PHASES 2 & 6.
MINIMUM RECALL REQUIRED FOR PHASES 2 & 6.
FLASHING OPERATION:
PHASES 4, OLC - RED
PHASES 2 & 6 - YELLOW
PHASES 5 - NO FLASH

2013 ESTIMATED TURNING MOVEMENT COUNTS



POLE SCHEDULE

POLES	TYPE	FOUNDATION	SHAFT	ARM	SPACING	ST. NAME SIGN
NORTHEAST	III L	36" X 15'	30'	50' (MAIN) 55' (SIDE)	10,20,26,32,44 30,41,47,53	Adeline St. U.S. Hwy. 49
SOUTHWEST	II (L)	36" X 15'	30'	45' (MAIN)	17,29,35,41	Adeline St.

"STREET NAME SIGNS TO BE COST ABSORBED"

TRAFFIC SIGNAL INSTALLATION US HWY 49 AT ADELINE STREET

ENGINEER: THE WALKER ASSOCIATES, PLLC

FILENAME: 178-11 Traffic Signal Sheets.dwg

CHECKED BY: DBG DATE: Jul 09, 2020

WORKING NUMBER

TSI-2

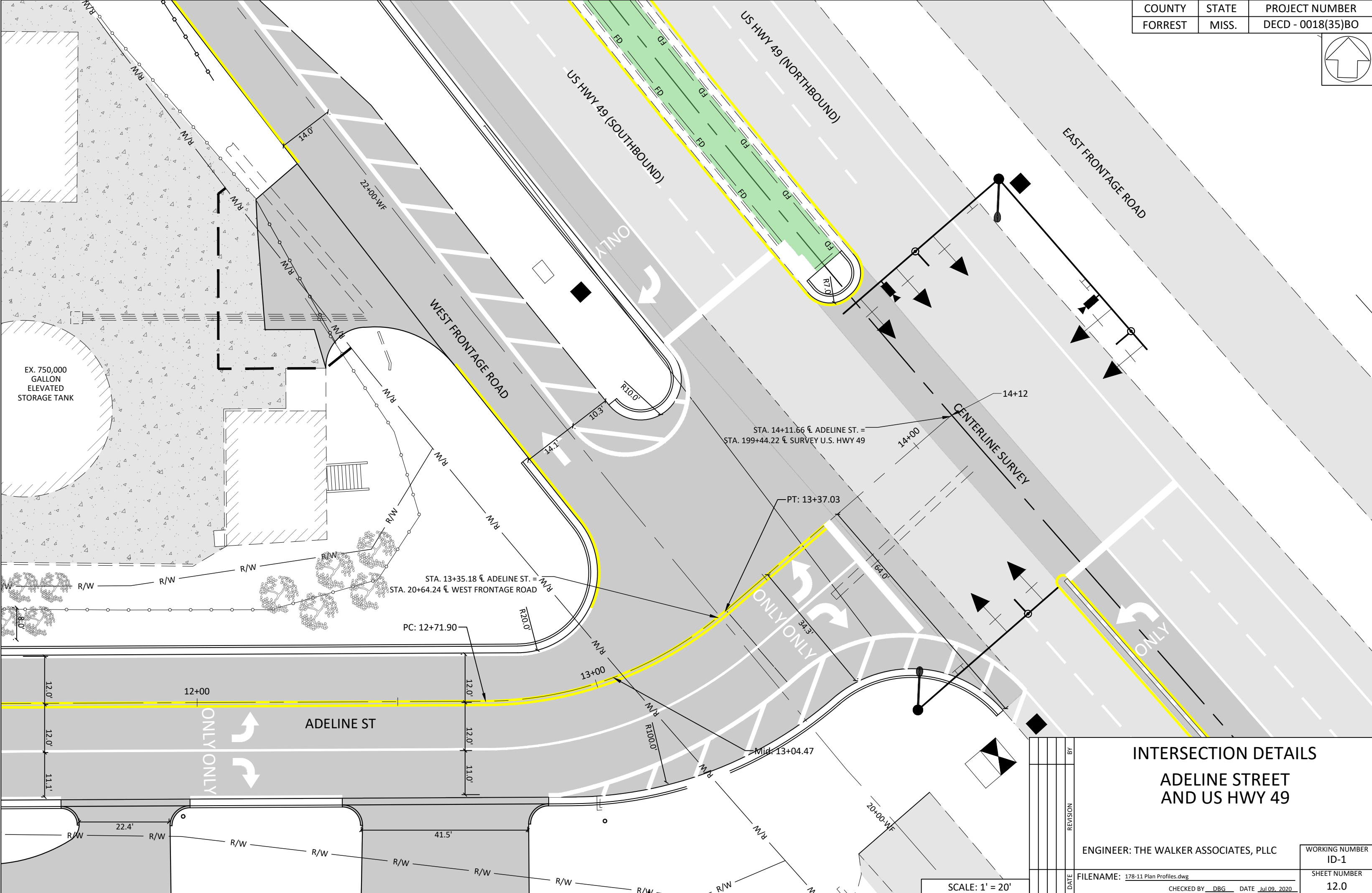
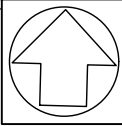
SHEET NUMBER

11.1

SCALE: 1' = 40'

FILE NAME: D:\Civil\3D - 178-11\dwg\178-11 Plan Profiles.dwg
DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
COUNTY: FORREST
DESIGNED BY: DBG
DRAWN BY: BLL
CHECKED BY: DBG
Jul 09, 2020 - 10:36pm
INT ADELINE

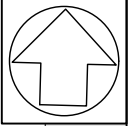
COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO



INTERSECTION DETAILS ADELINE STREET AND US HWY 49			
ENGINEER: THE WALKER ASSOCIATES, PLLC			
FILENAME: 178-11 Plan Profiles.dwg			
CHECKED BY: DBG DATE: Jul 09, 2020			
WORKING NUMBER ID-1			SHEET NUMBER 12.0

DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Plan Profiles.dwg
INT FGH
Jul 09, 2020 - 10:37pm
COUNTY: FORREST
DESIGNED BY: DBG
DRAWN BY: BLL
CHECKED BY: DBG

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

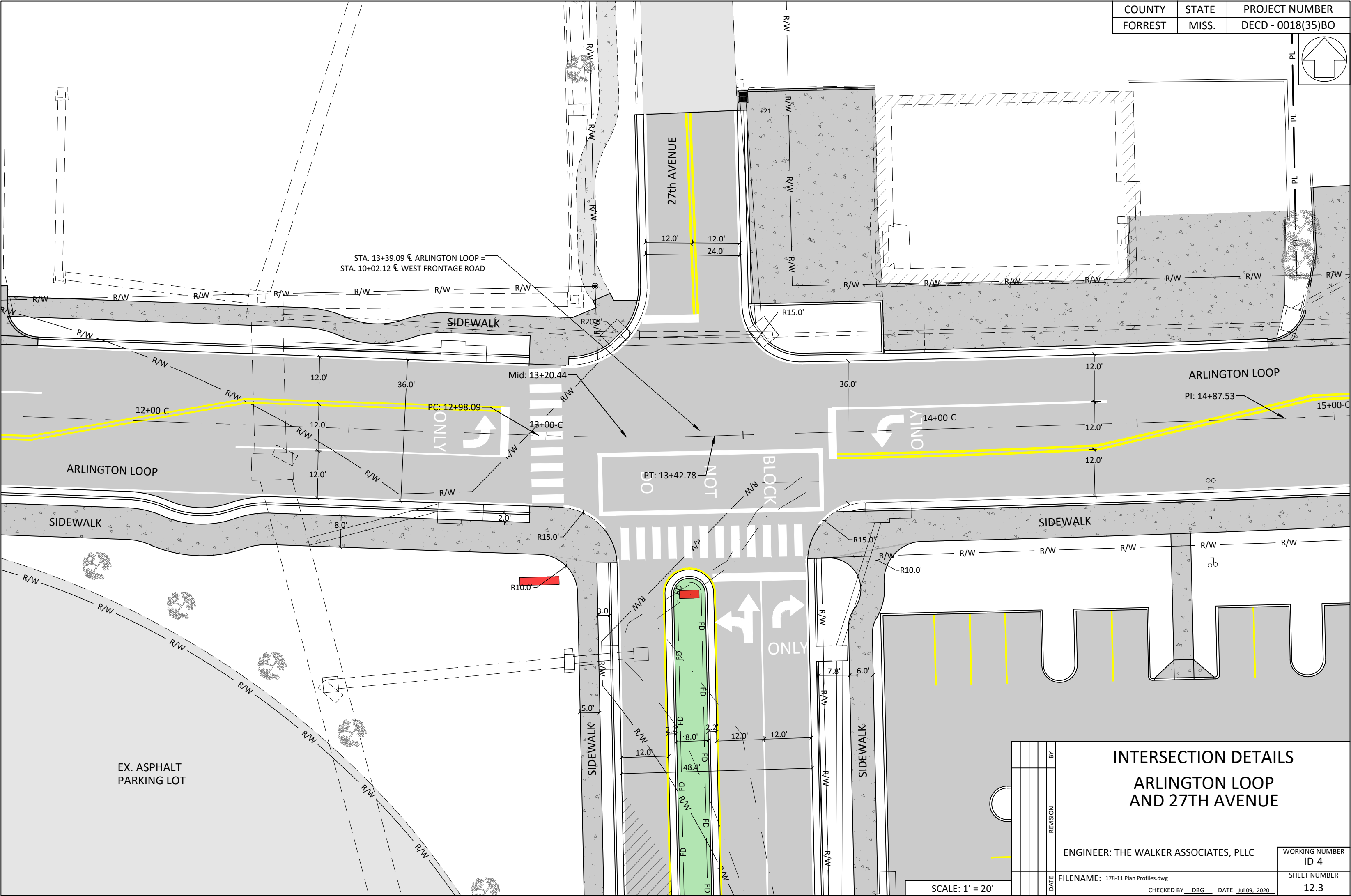
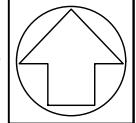


INTERSECTION DETAILS			
US HWY 49 AND FORREST GENERAL HOSPITAL MAIN ENTRANCE			
ENGINEER: THE WALKER ASSOCIATES, PLLC			WORKING NUMBER ID-2
FILENAME: 178-11 Plan Profiles.dwg			SHEET NUMBER 12.1
DATE	CHECKED BY	DATE	
	DBG	Jul 09, 2020	

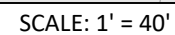
SCALE: 1' = 20'

DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Plan Profiles.dwg
INT ARLINGTON-27TH
Jul 09, 2020 - 10:37
COUNTY: FORREST
DESIGNED BY: DBG
DRAWN BY: BLL
CHECKED BY: DBG

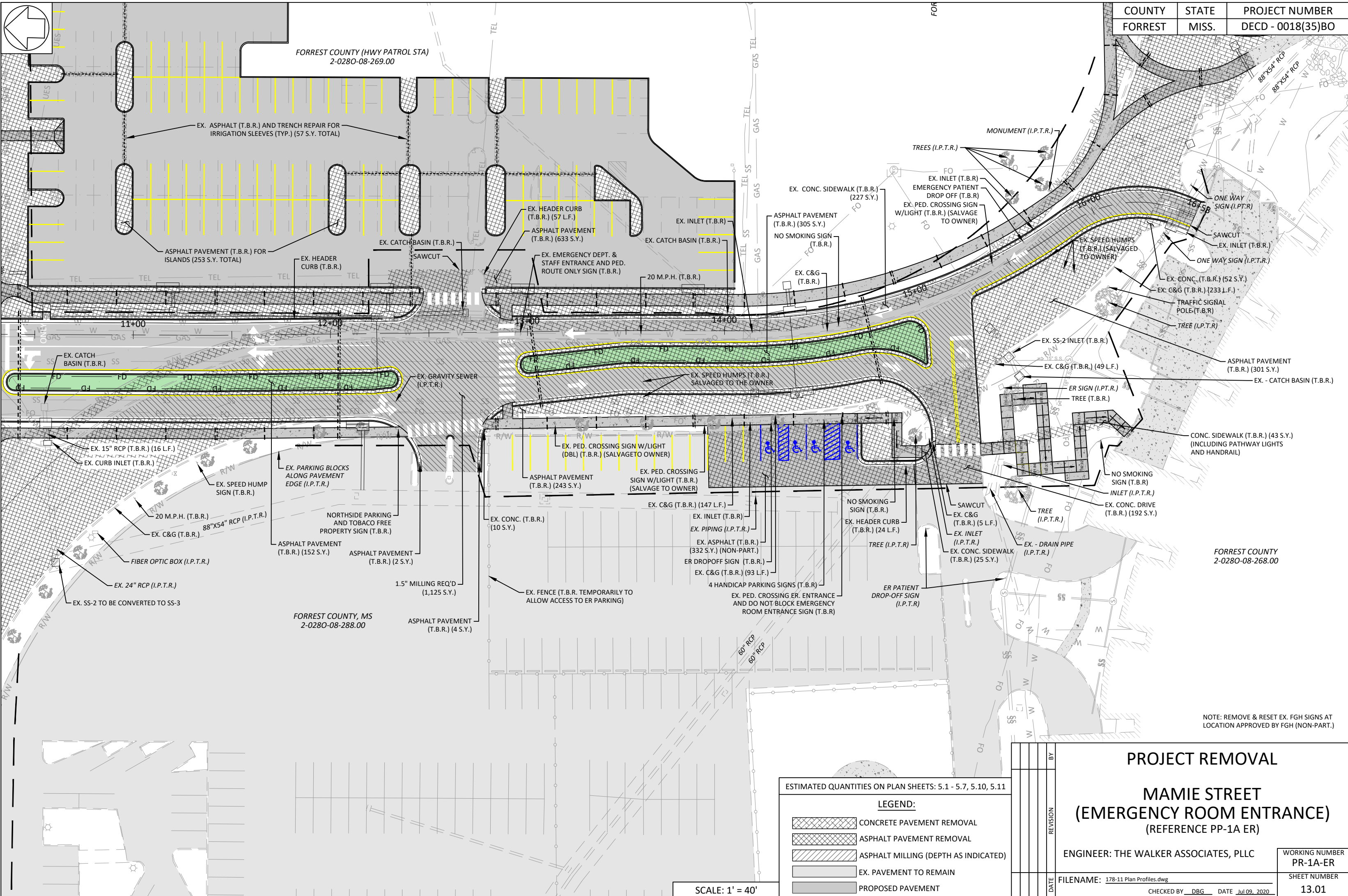
COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO



					BY	INTERSECTION DETAILS ARLINGTON LOOP AND 27TH AVENUE
					REVISION	
ENGINEER: THE WALKER ASSOCIATES, PLLC						WORKING NUMBER ID-4
					DATE	FILENAME: 178-11 Plan Profiles.dwg
CHECKED BY <u>DBG</u> DATE <u>Jul 09, 2020</u>						SHEET NUMBER 12.3



FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Plan Profiles.dwg
PR-1A ER
Jul 09, 2020 - 10:37pm
COUNTY: FORREST
DESIGNED BY: DBG
CHECKED BY: BLB
DRAWN BY: BLB
DESIGN TEAM: THE WALKER ASSOCIATES, PLLC



COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

ESTIMATED QUANTITIES ON PLAN SHEETS: 5.1 - 5.7, 5.10, 5.11

LEGEND:	
	CONCRETE PAVEMENT REMOVAL
	ASPHALT PAVEMENT REMOVAL
	ASPHALT MILLING (DEPTH AS INDICATED)
	EX. PAVEMENT TO REMAIN
	PROPOSED PAVEMENT

SCALE: 1' = 40'

PROJECT REMOVAL

MAMIE STREET
(EMERGENCY ROOM ENTRANCE)
(REFERENCE PP-1A ER)

ENGINEER: THE WALKER ASSOCIATES, PLLC

FILENAME: 178-11 Plan Profiles.dwg

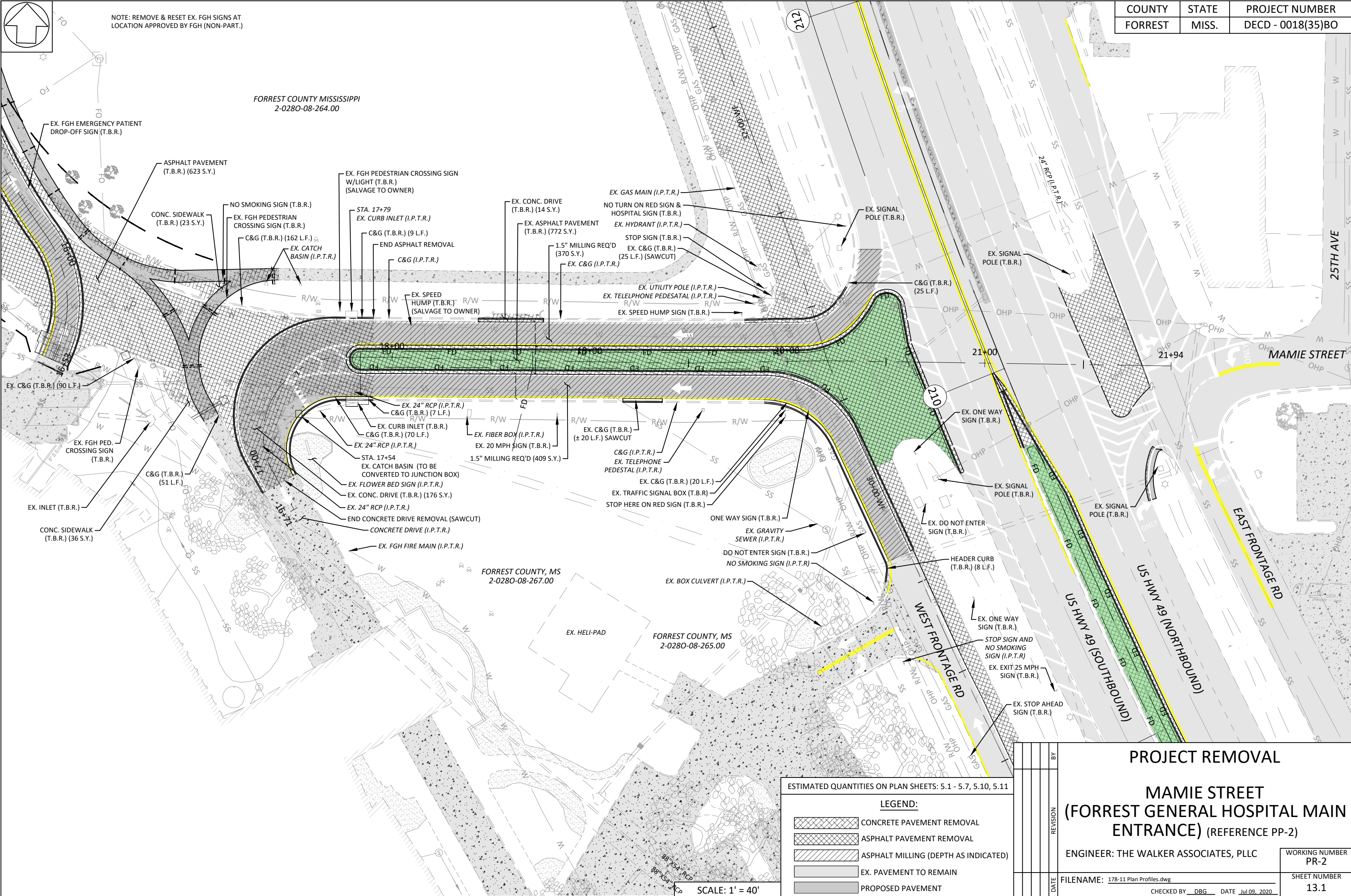
CHECKED BY: DBG DATE: Jul 09, 2020

WORKING NUMBER
PR-1A-ER

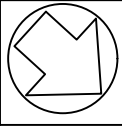
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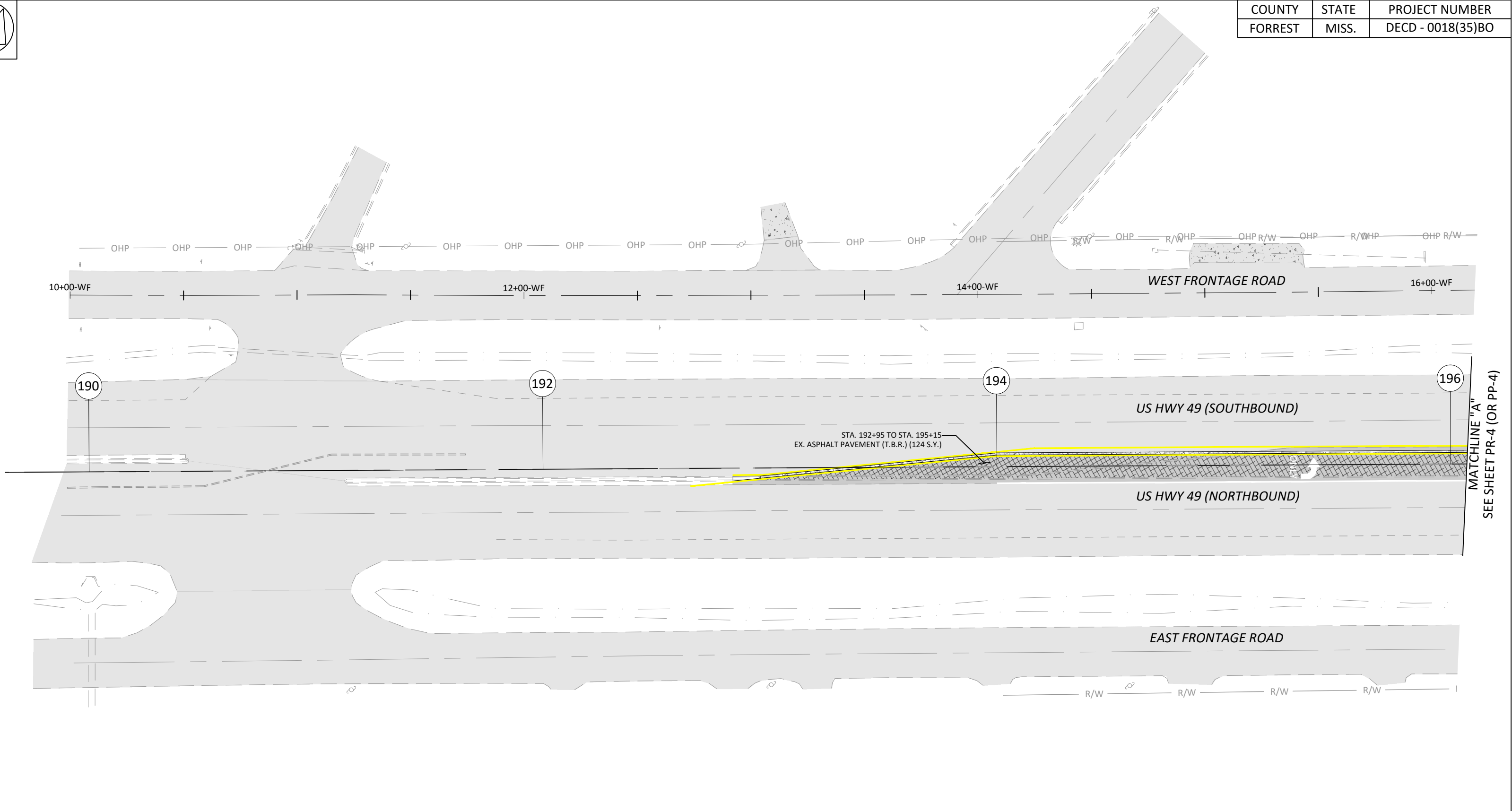
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PR-2
Jul 09, 2020 - 10:38pm
COUNTY: FORREST
DESIGNED BY: DBG
DRAWN BY: BL
CHECKED BY: DBG
DESIGN TEAM: THE WALKER ASSOCIATES, PLLC



DESIGN TEAM: THE WALKER ASSOCIATES, PLLC
FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Plan Profiles.dwg
PR-3
Jul 09, 2020 - 10:38pm
COUNTY: FORREST
DESIGNED BY: DBG
DRAWN BY: BLL
CHECKED BY: DBG



COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO



SCALE: 1' = 40'

ESTIMATED QUANTITIES ON PLAN SHEETS: 5.1 - 5.7, 5.10, 5.11

LEGEND:	
	CONCRETE PAVEMENT REMOVAL
	ASPHALT PAVEMENT REMOVAL
	ASPHALT MILLING (DEPTH AS INDICATED)
	EX. PAVEMENT TO REMAIN
	PROPOSED PAVEMENT

		PROJECT REMOVAL	
		US HWY 49 (STA. 189+63 TO STA. 196+07) (REFERENCE PP-3)	
		ENGINEER: THE WALKER ASSOCIATES, PLLC	WORKING NUMBER PR-3
		FILENAME: 178-11 Plan Profiles.dwg	SHEET NUMBER 13.2
DATE	CHECKED BY	DBG	DATE Jul 09, 2020

CHECKED BY: DBG

DRAWN BY: BLL

DESIGNED BY: DBG

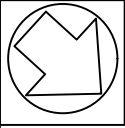
COUNTY: FORREST

Jul 09, 2020 - 10:38pm

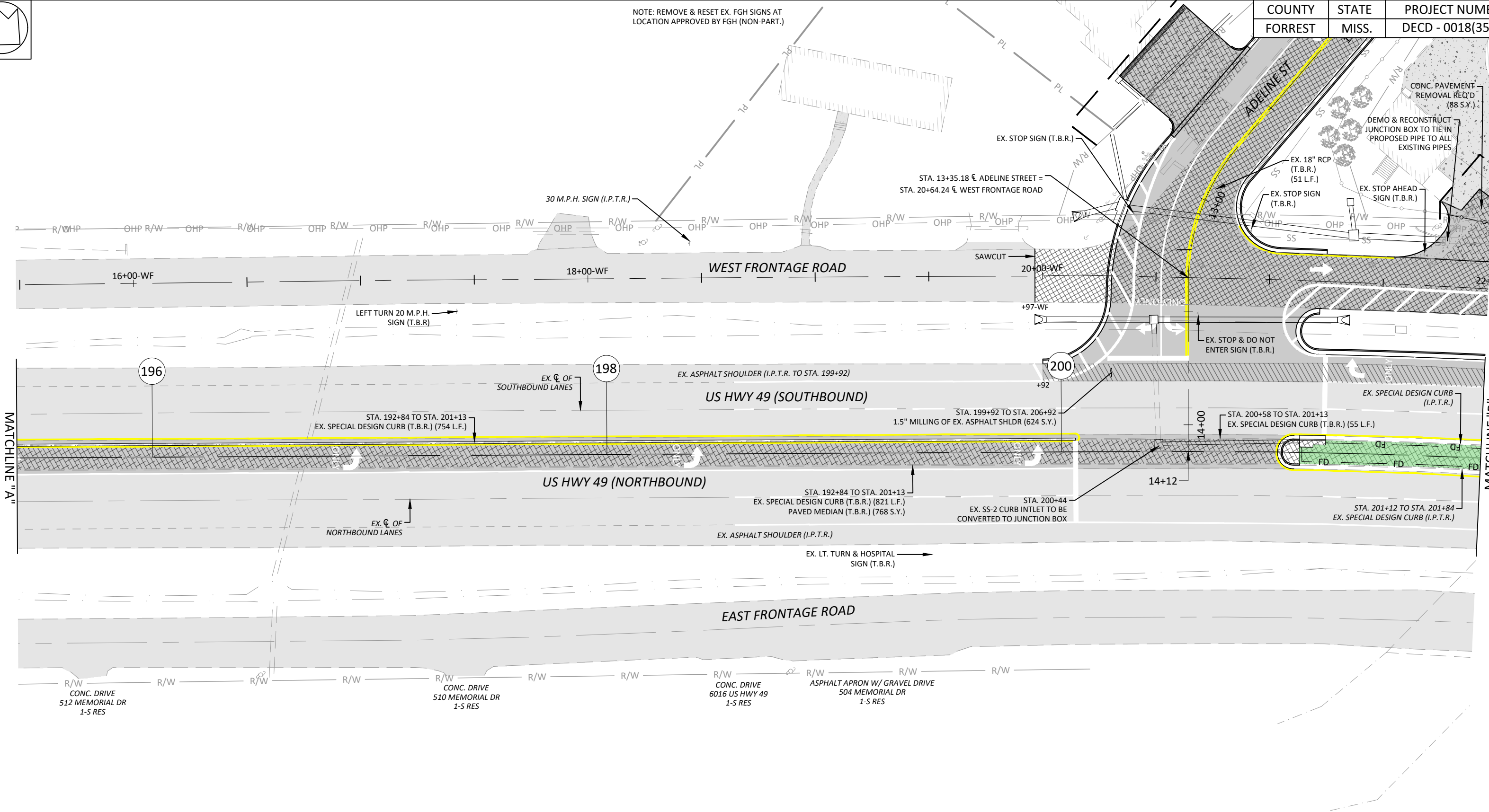
PR-4

FILE NAME: D:\Civl 3D - 178-11\dwg\178-11 Plan Profiles.dwg

DESIGN TEAM: THE WALKER ASSOCIATES, PLLC



SEE SHEET PR-3 (OR PP-3)



NOTE: REMOVE & RESET EX. FGH SIGNS AT LOCATION APPROVED BY FGH (NON-PART.)

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

SCALE: 1' = 40'

ESTIMATED QUANTITIES ON PLAN SHEETS: 5.1 - 5.7, 5.10, 5.11

LEGEND:

	CONCRETE PAVEMENT REMOVAL
	ASPHALT PAVEMENT REMOVAL
	ASPHALT MILLING (DEPTH AS INDICATED)
	EX. PAVEMENT TO REMAIN
	PROPOSED PAVEMENT

PROJECT REMOVAL

US HWY 49
(STA. 195+40 TO STA. 201+84)
(REFERENCE PP-4)

ENGINEER: THE WALKER ASSOCIATES, PLLC

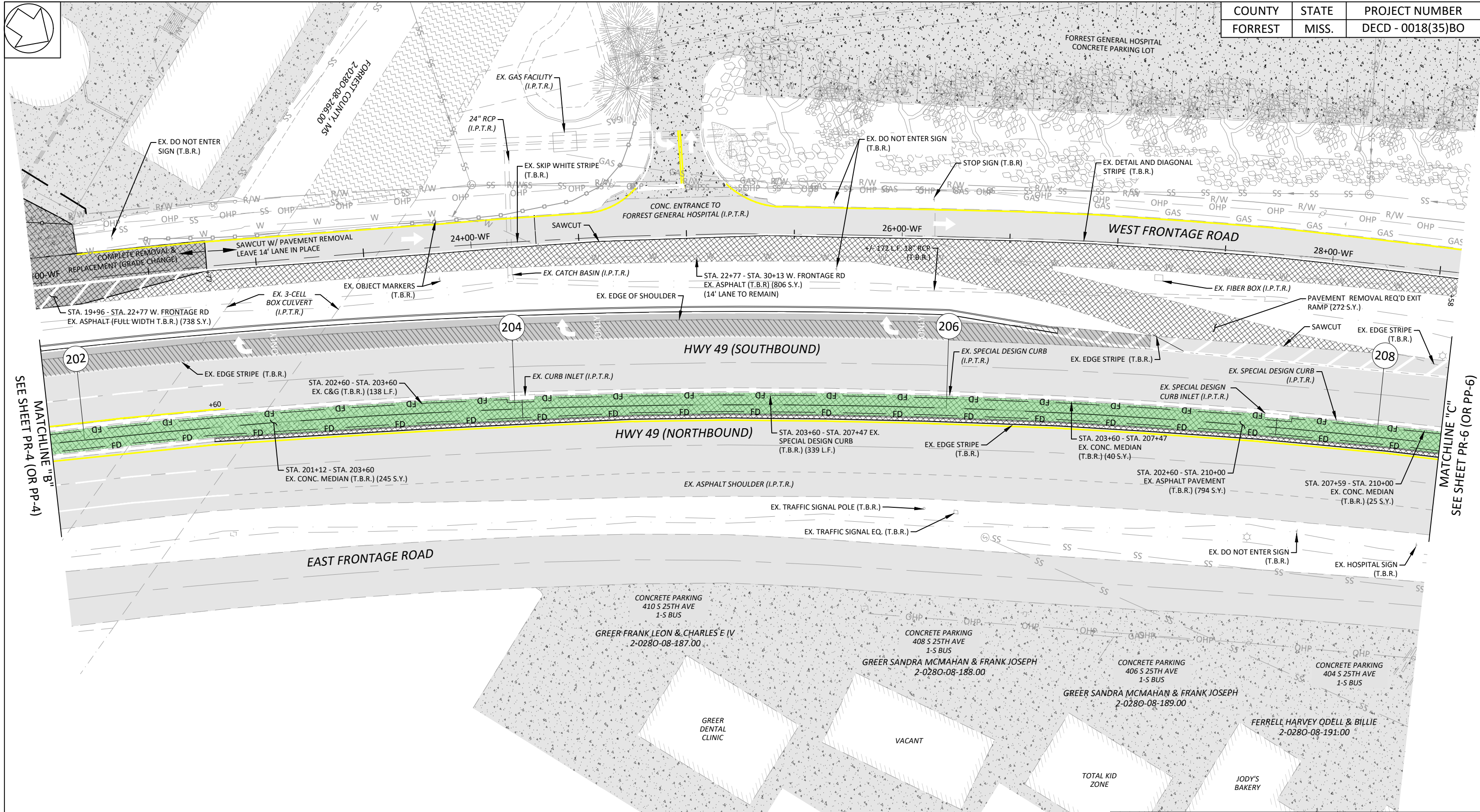
WORKING NUMBER
PR-4

FILENAME: 178-11 Plan Profiles.dwg

SHEET NUMBER
13.3

CHECKED BY: DBG DATE: Jul 09, 2020

FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Plan Profiles.dwg
PR-5
DESIGNED BY: DBG
DRAWN BY: BLI
CHECKED BY: DBG
COUNTY: FORREST
JUL 09, 2020 - 10:38pm
DESIGN TEAM: THE WALKER ASSOCIATES, PLLC



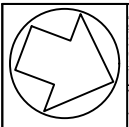
COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

ESTIMATED QUANTITIES ON PLAN SHEETS: 5.1 - 5.7, 5.10, 5.11	
LEGEND:	
	CONCRETE PAVEMENT REMOVAL
	ASPHALT PAVEMENT REMOVAL
	ASPHALT MILLING (DEPTH AS INDICATED)
	EX. PAVEMENT TO REMAIN
	PROPOSED PAVEMENT

PROJECT REMOVAL	
US HWY 49 (STA. 201+84 TO STA. 208+30) (REFERENCE PP-5)	
ENGINEER: THE WALKER ASSOCIATES, PLLC	WORKING NUMBER PR-5
FILENAME: 178-11 Plan Profiles.dwg	SHEET NUMBER 13.4
CHECKED BY: DBG	DATE: Jul 09, 2020

NOTE: REMOVE & RESET EX. FGH SIGNS AT
LOCATION APPROVED BY FGH (NON-PART.)

SCALE: 1' = 40'

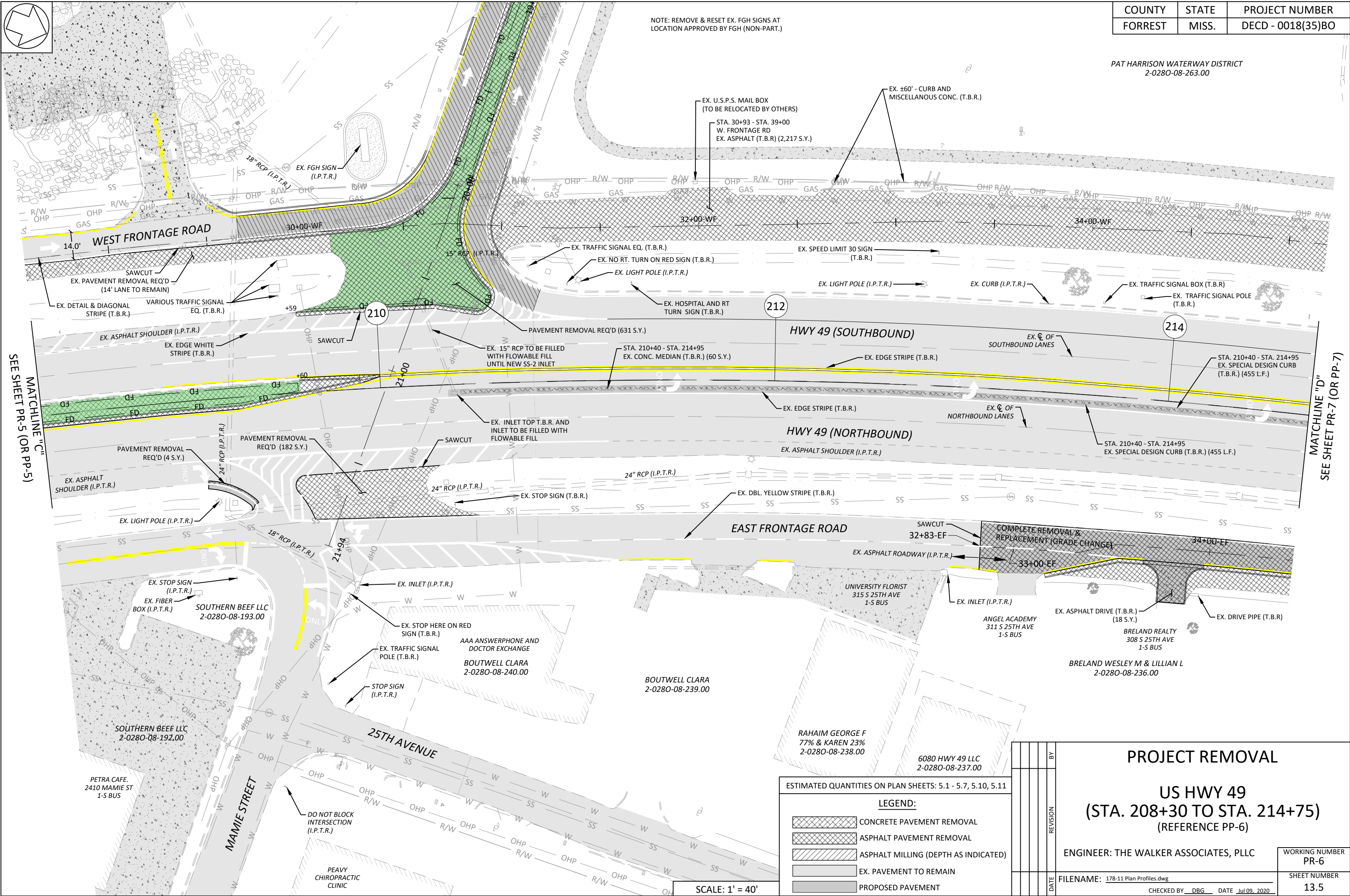


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PR-6
Jul 09, 2020 - 10:38pm
DESIGNED BY: DBG
DRAWN BY: BL
CHECKED BY: DBG
COUNTY: FORREST
DESIGN TEAM: THE WALKER ASSOCIATES, PLLC

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

PAT HARRISON WATERWAY DISTRICT
2-0280-08-263.00

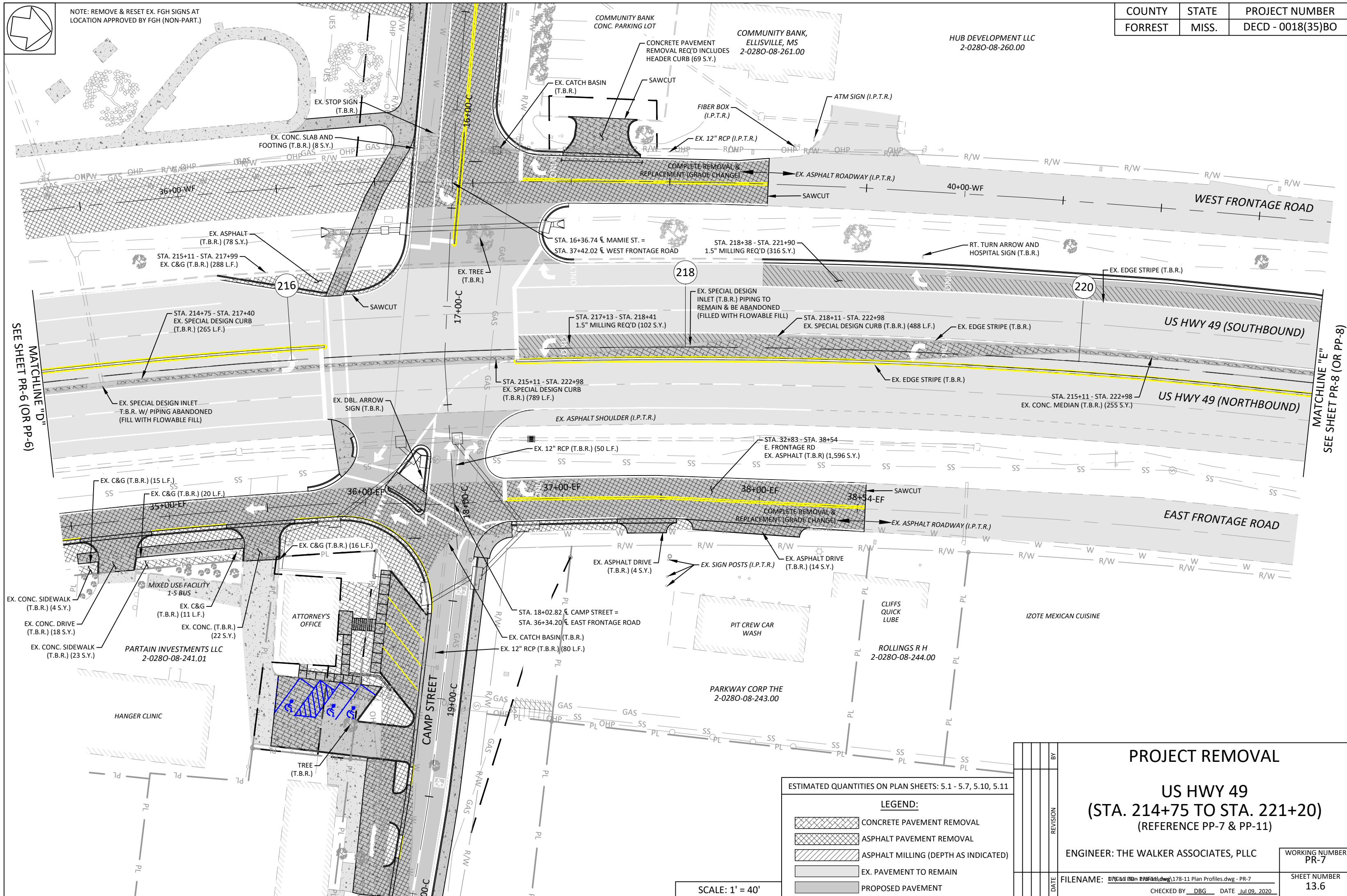
NOTE: REMOVE & RESET EX. FGH SIGNS AT
LOCATION APPROVED BY FGH (NON-PART.)



ESTIMATED QUANTITIES ON PLAN SHEETS: 5.1 - 5.7, 5.10, 5.11	
LEGEND:	
	CONCRETE PAVEMENT REMOVAL
	ASPHALT PAVEMENT REMOVAL
	ASPHALT MILLING (DEPTH AS INDICATED)
	EX. PAVEMENT TO REMAIN
	PROPOSED PAVEMENT

PROJECT REMOVAL	
US HWY 49 (STA. 208+30 TO STA. 214+75) (REFERENCE PP-6)	
ENGINEER: THE WALKER ASSOCIATES, PLLC	
FILENAME: 178-11 Plan Profiles.dwg	WORKING NUMBER PR-6
CHECKED BY: DBG DATE: Jul 09, 2020	SHEET NUMBER 13.5

FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Plan Profiles.dwg PR-7 Jul 09, 2020 - 10:39pm COUNTY: FORREST DESIGN TEAM: THE WALKER ASSOCIATES, PLLC



CHECKED BY: DBG

DRAWN BY: BLL

DESIGNED BY: DBG

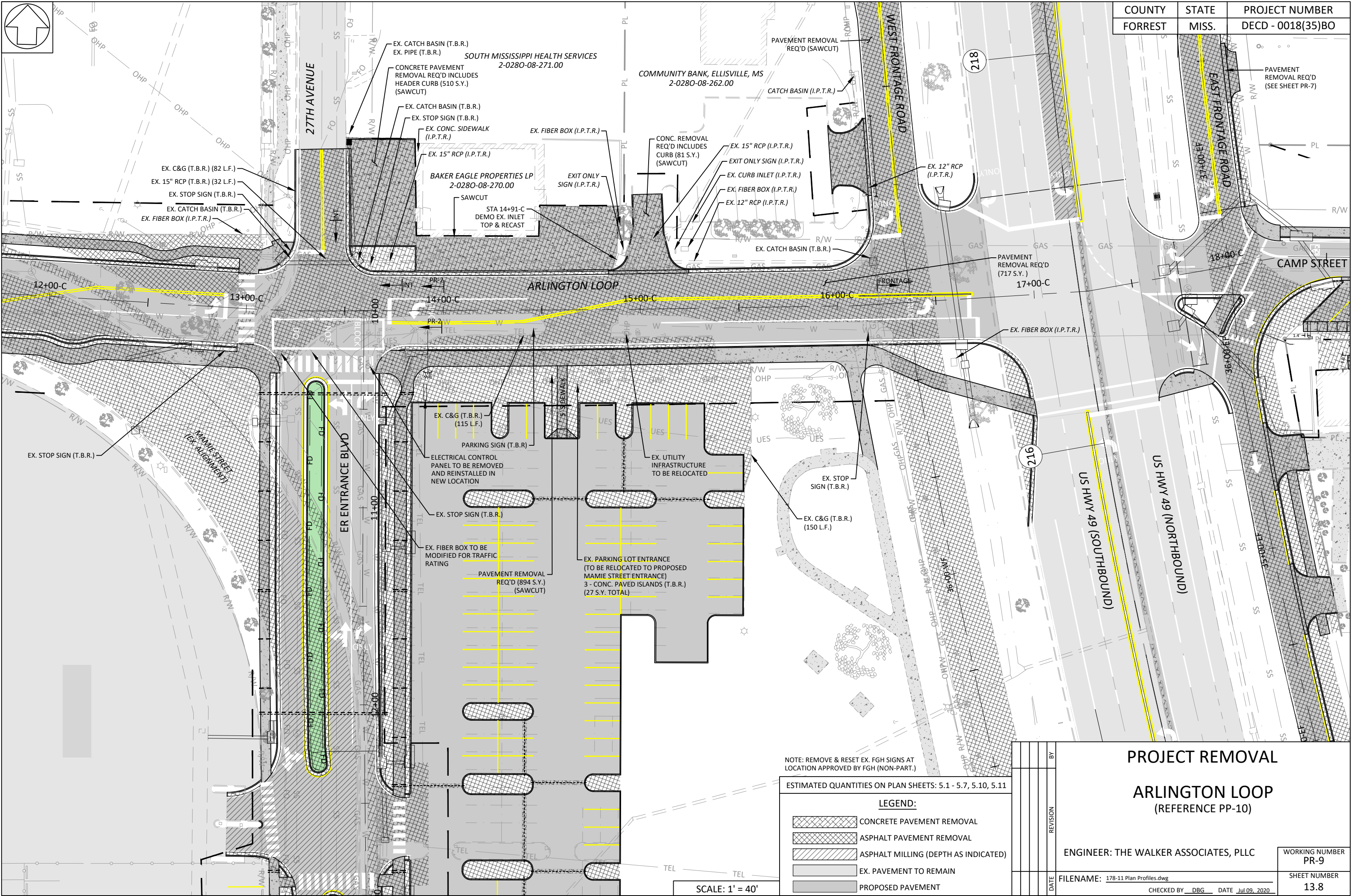
COUNTY: FORREST

Jul 09, 2020 - 10:39pm

PR-9

FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Plan Profiles.dwg

DESIGN TEAM: THE WALKER ASSOCIATES, PLLC



COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

ENGINEER: THE WALKER ASSOCIATES, PLLC

FILENAME: 178-11 Plan Profiles.dwg

CHECKED BY: DBG DATE: Jul 09, 2020

WORKING NUMBER
PR-9

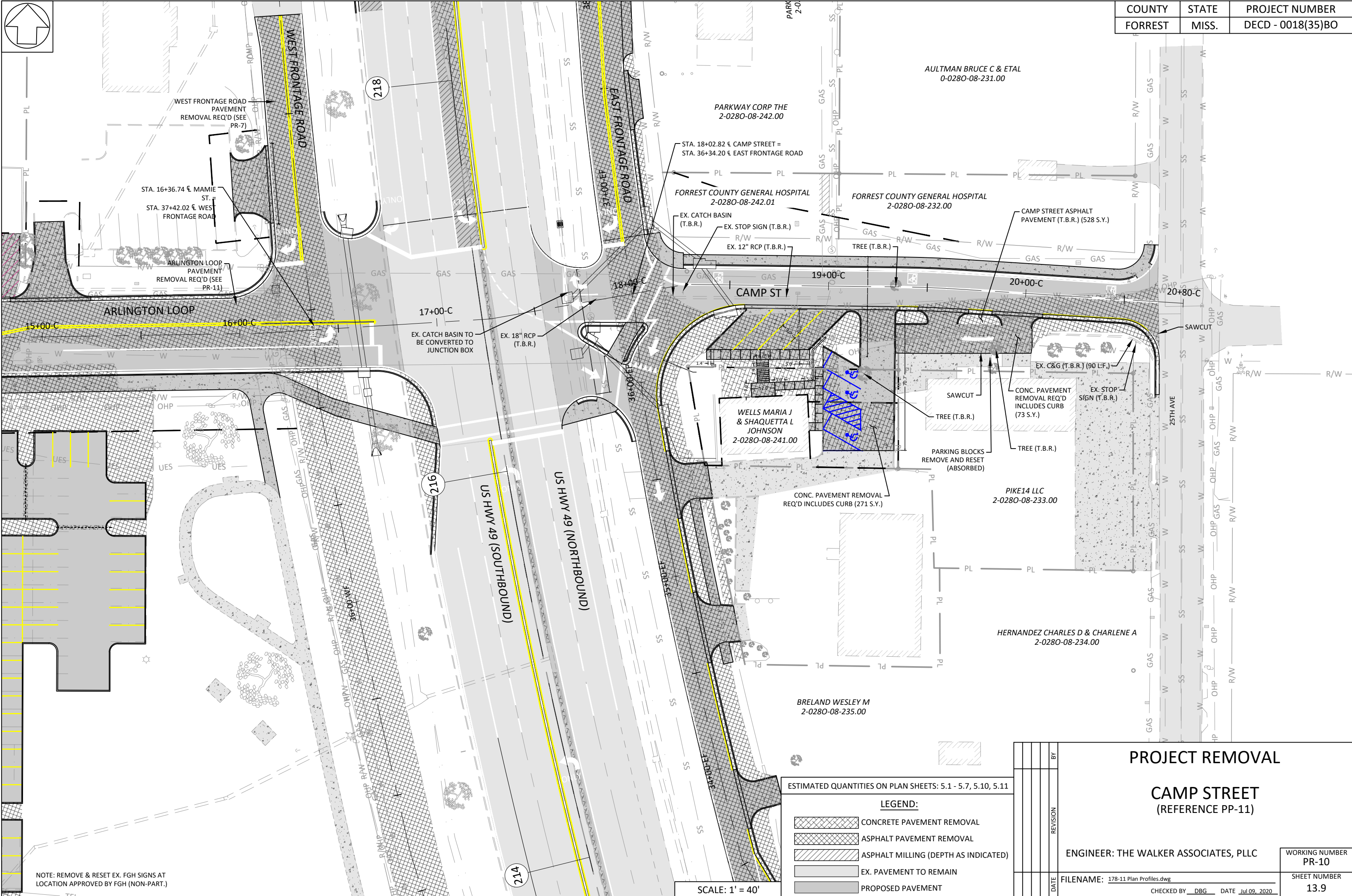
SHEET NUMBER
13.8

PROJECT REMOVAL

ARLINGTON LOOP
(REFERENCE PP-10)

FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Plan Profiles.dwg
PR-10
Jul 09, 2020 - 10:39pm
COUNTY: FORREST
DESIGNED BY: DBG
DRAWN BY: BLL
CHECKED BY: DBG

DESIGN TEAM: THE WALKER ASSOCIATES, PLLC



NOTE: REMOVE & RESET EX. FGH SIGNS AT LOCATION APPROVED BY FGH (NON-PART.)

SCALE: 1' = 40'

ESTIMATED QUANTITIES ON PLAN SHEETS: 5.1 - 5.7, 5.10, 5.11

LEGEND:

- CONCRETE PAVEMENT REMOVAL
- ASPHALT PAVEMENT REMOVAL
- ASPHALT MILLING (DEPTH AS INDICATED)
- EX. PAVEMENT TO REMAIN
- PROPOSED PAVEMENT

PROJECT REMOVAL

CAMP STREET
(REFERENCE PP-11)

ENGINEER: THE WALKER ASSOCIATES, PLLC

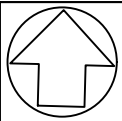
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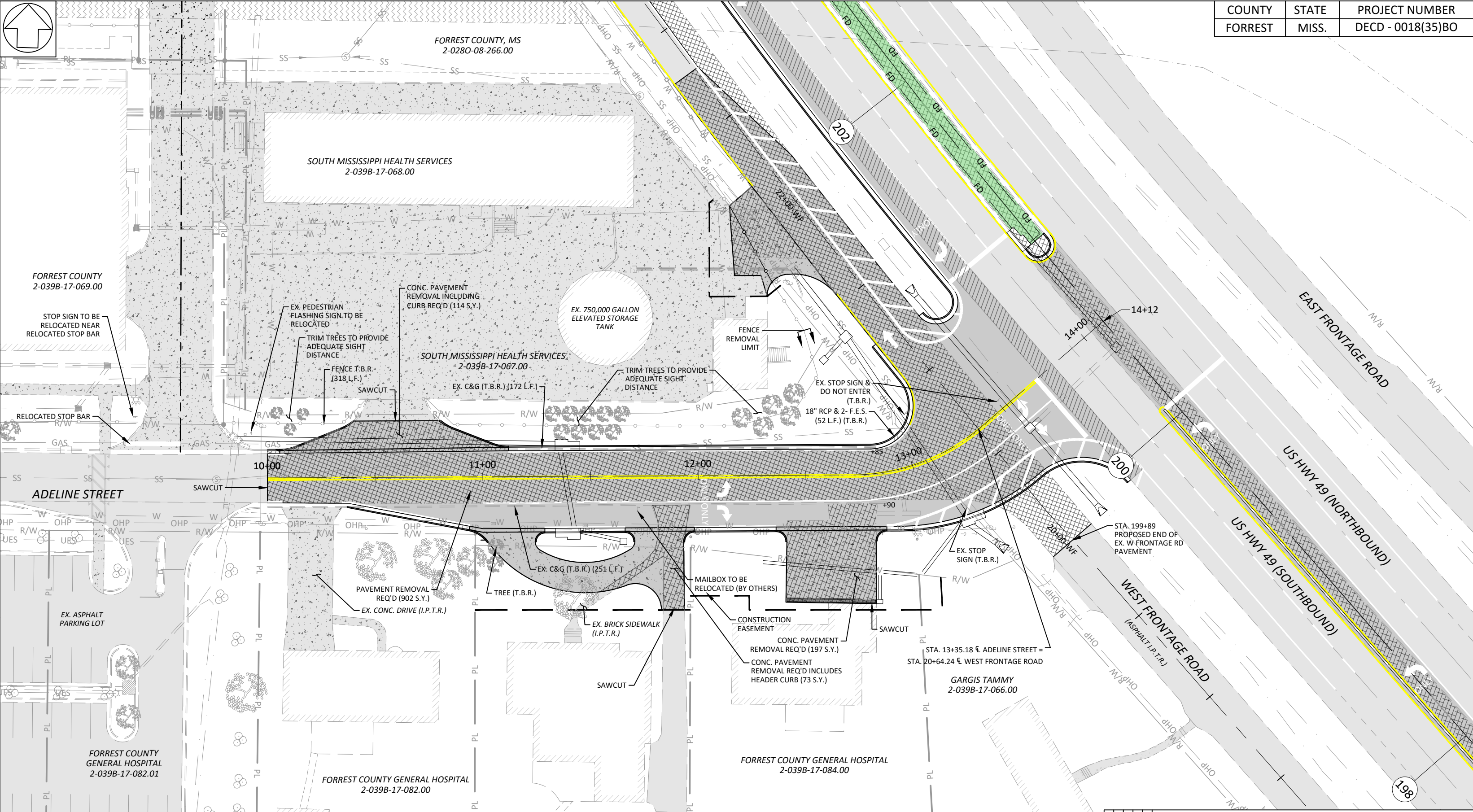
SHEET NUMBER
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CHECKED BY: DBG DATE: Jul 09, 2020

FILE NAME: D:\Civil 3D - 178-11\dwg\178-11 Plan Profiles.dwg PR-11 Jul 09, 2020 - 10:39pm COUNTY: FORREST DESIGNED BY: DBG DRAWN BY: BLL CHECKED BY: DBG DESIGN TEAM: THE WALKER ASSOCIATES, PLLC



COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO



NOTE: REMOVE & RESET
EX. FGH SIGNS AT
LOCATION APPROVED BY
FGH (NON-PART.)

SCALE: 1' = 40'

ESTIMATED QUANTITIES ON PLAN SHEETS: 5.1 - 5.7, 5.10, 5.11

LEGEND:

	CONCRETE PAVEMENT REMOVAL
	ASPHALT PAVEMENT REMOVAL
	ASPHALT MILLING (DEPTH AS INDICATED)
	EX. PAVEMENT TO REMAIN
	PROPOSED PAVEMENT

PROJECT REMOVAL

ADELINE STREET
(REFERENCE PP-13)

ENGINEER: THE WALKER ASSOCIATES, PLLC

WORKING NUMBER
PR-11

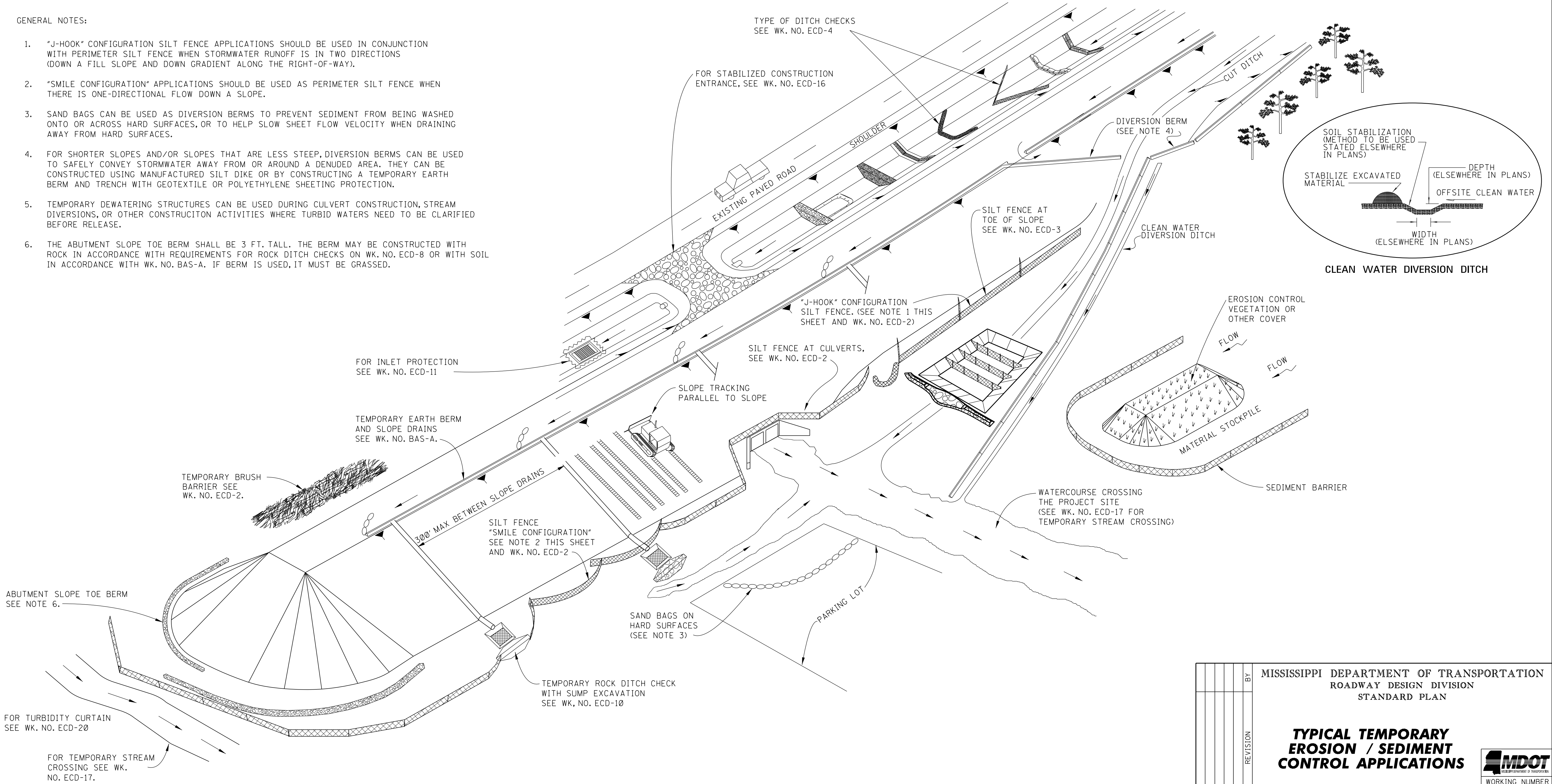
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SHEET NUMBER
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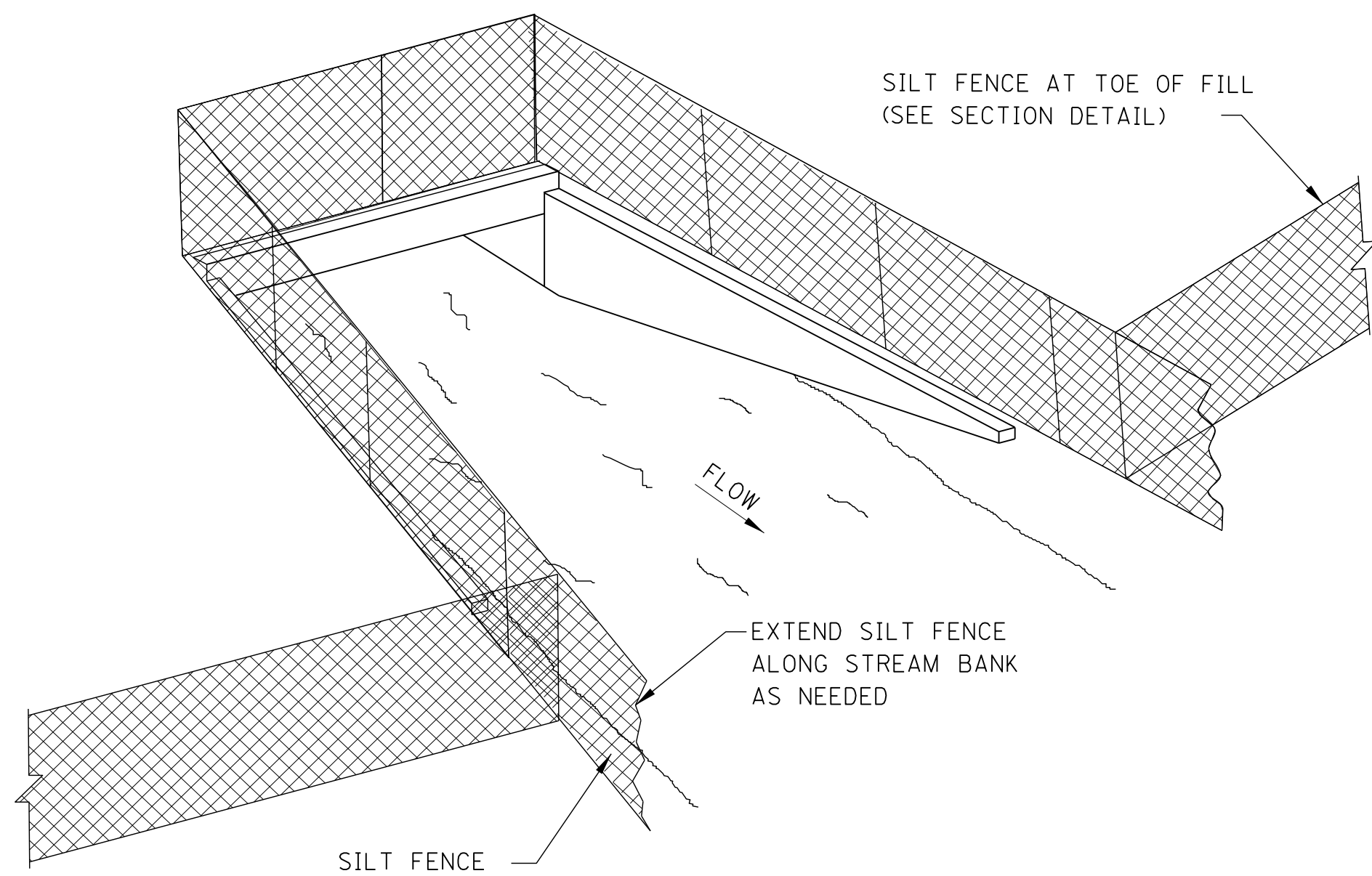
CHECKED BY: DBG DATE: Jul 09, 2020

GENERAL NOTES:

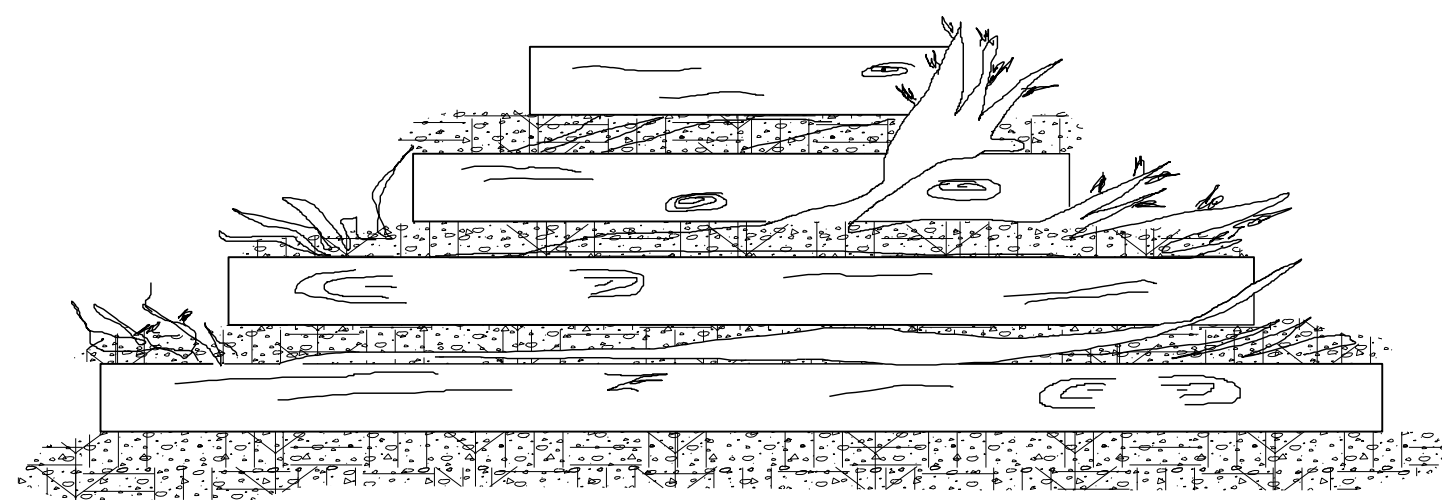
1. "J-HOOK" CONFIGURATION SILT FENCE APPLICATIONS SHOULD BE USED IN CONJUNCTION WITH PERIMETER SILT FENCE WHEN STORMWATER RUNOFF IS IN TWO DIRECTIONS (DOWN A FILL SLOPE AND DOWN GRADIENT ALONG THE RIGHT-OF-WAY).
2. "SMILE CONFIGURATION" APPLICATIONS SHOULD BE USED AS PERIMETER SILT FENCE WHEN THERE IS ONE-DIRECTIONAL FLOW DOWN A SLOPE.
3. SAND BAGS CAN BE USED AS DIVERSION BERM TO PREVENT SEDIMENT FROM BEING WASHED ONTO OR ACROSS HARD SURFACES, OR TO HELP SLOW SHEET FLOW VELOCITY WHEN DRAINING AWAY FROM HARD SURFACES.
4. FOR SHORTER SLOPES AND/OR SLOPES THAT ARE LESS STEEP, DIVERSION BERMS CAN BE USED TO SAFELY CONVEY STORMWATER AWAY FROM OR AROUND A DENUDED AREA. THEY CAN BE CONSTRUCTED USING MANUFACTURED SILT DIKE OR BY CONSTRUCTING A TEMPORARY EARTH BERM AND TRENCH WITH GEOTEXTILE OR POLYETHYLENE SHEETING PROTECTION.
5. TEMPORARY DEWATERING STRUCTURES CAN BE USED DURING CULVERT CONSTRUCTION, STREAM DIVERSIONS, OR OTHER CONSTRUCTION ACTIVITIES WHERE TURBID WATERS NEED TO BE CLARIFIED BEFORE RELEASE.
6. THE ABUTMENT SLOPE TOE BERM SHALL BE 3 FT. TALL. THE BERM MAY BE CONSTRUCTED WITH ROCK IN ACCORDANCE WITH REQUIREMENTS FOR ROCK DITCH CHECKS ON WK. NO. ECD-8 OR WITH SOIL IN ACCORDANCE WITH WK. NO. BAS-A. IF BERM IS USED, IT MUST BE GRASSED.



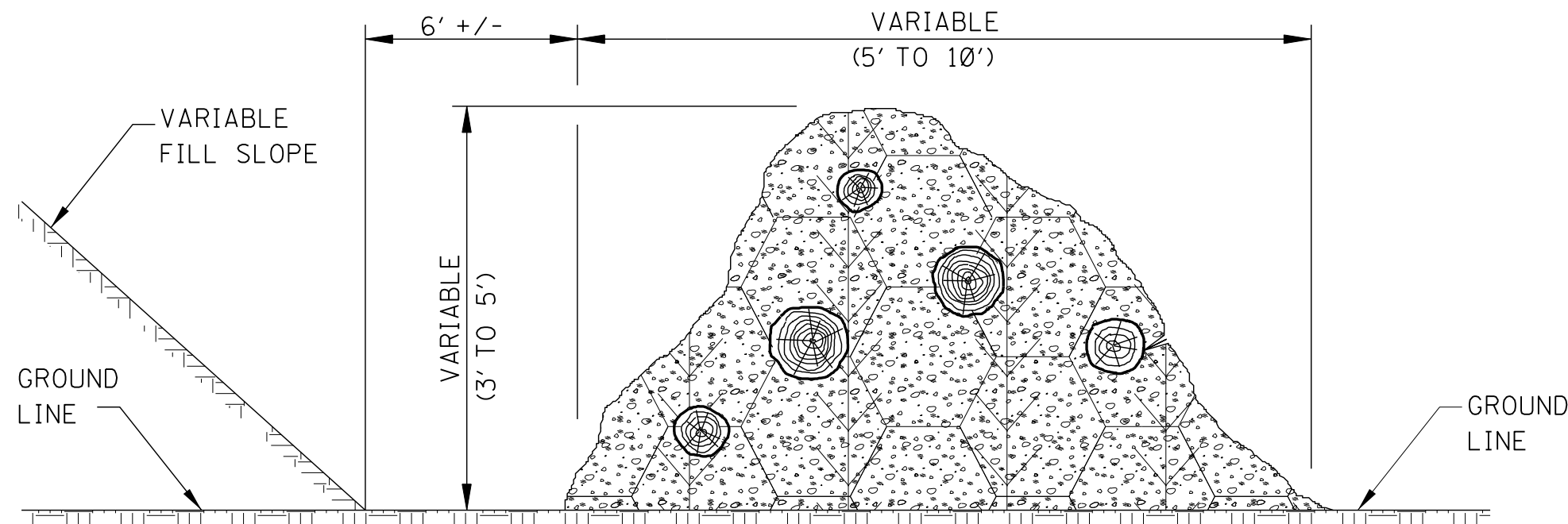
				BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION
					ROADWAY DESIGN DIVISION
					STANDARD PLAN
				REVISION	TYPICAL TEMPORARY EROSION / SEDIMENT CONTROL APPLICATIONS
				DATE	ISSUE DATE: AUGUST 01, 2017
					 WORKING NUMBER ECD-1 SHEET NUMBER 6101



SEDIMENT BARRIER AT CROSS DRAIN



FRONT ELEVATION

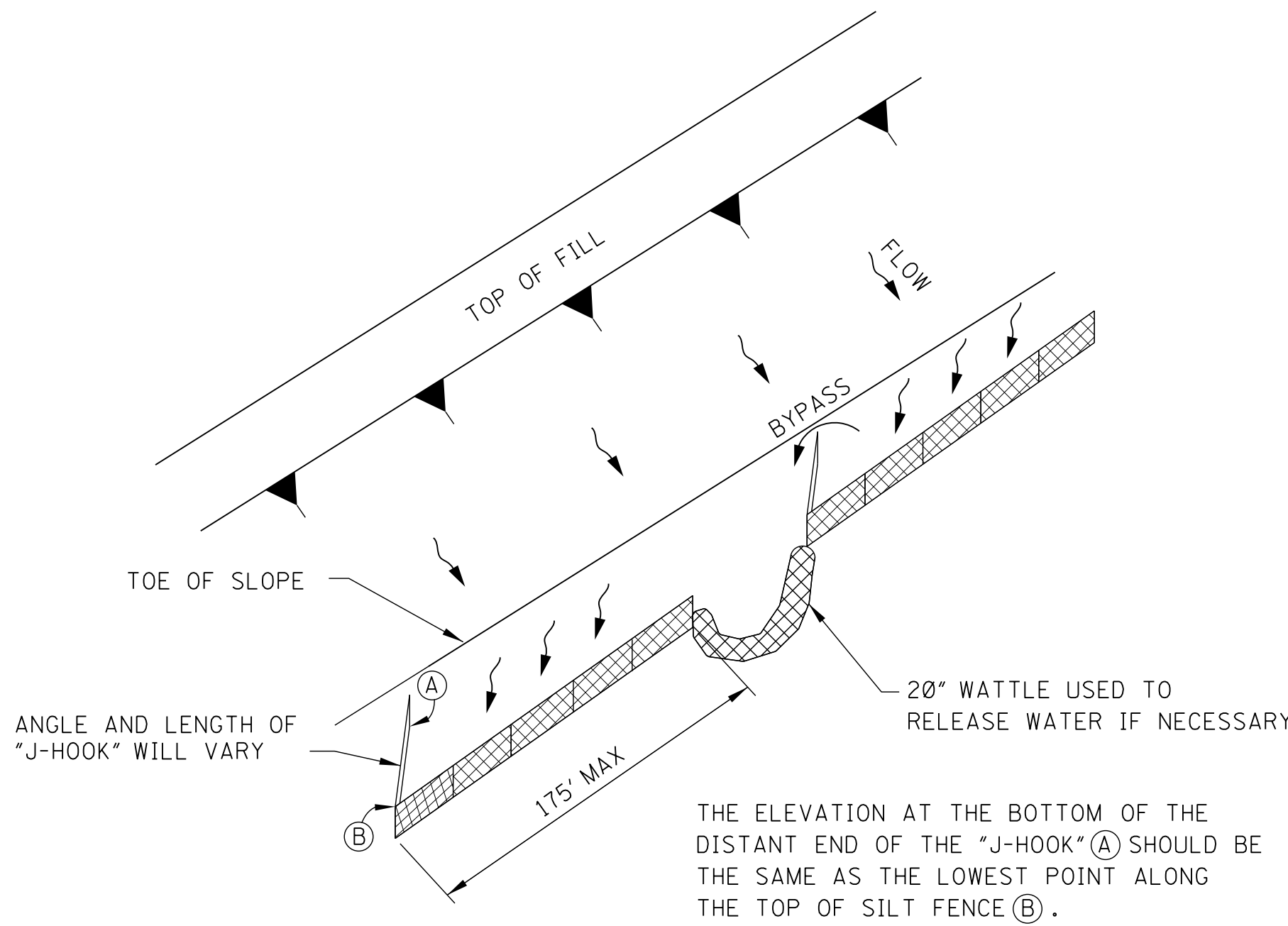


SIDE ELEVATION

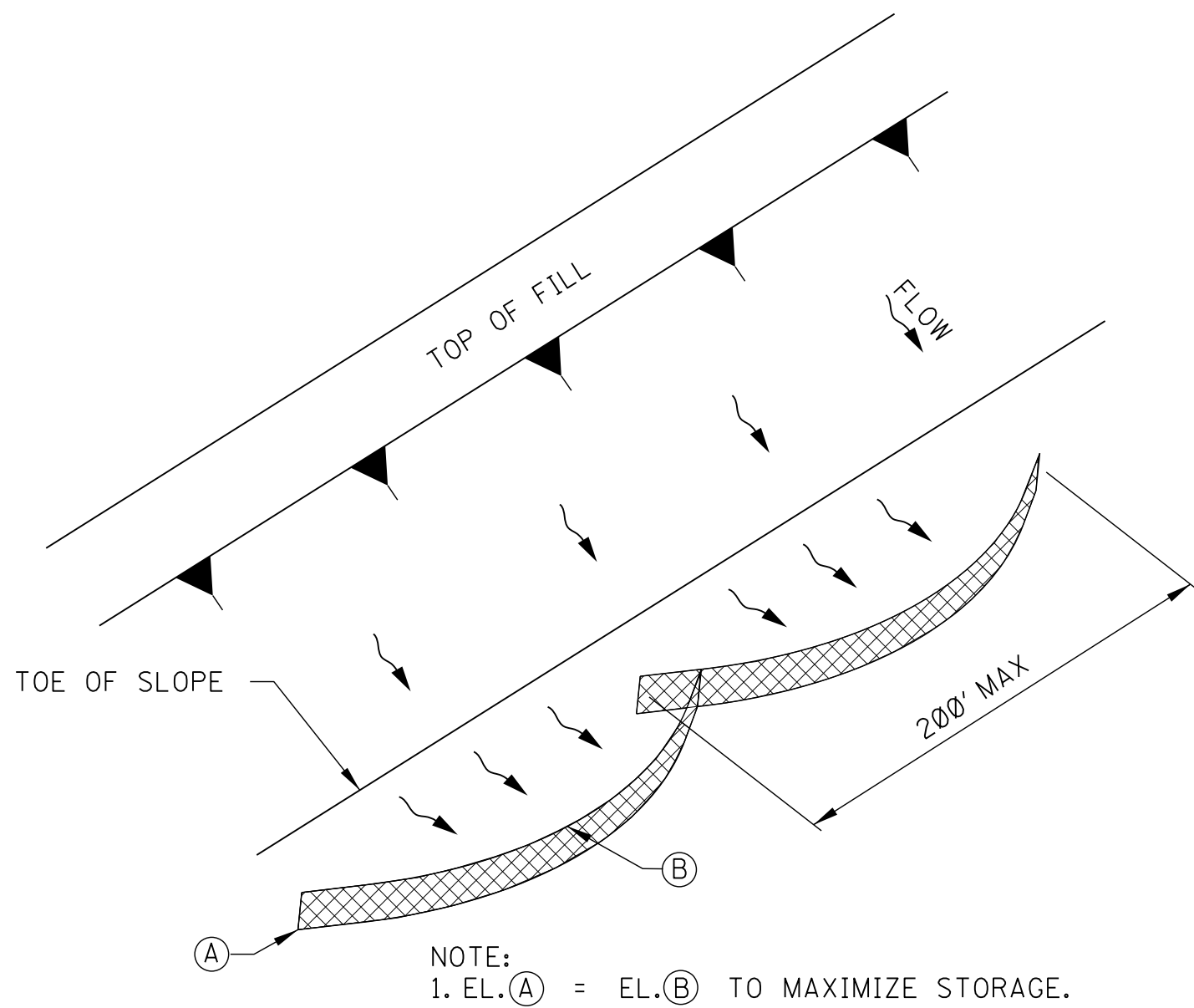
TEMPORARY BRUSH BARRIER

- NOTES:
- BRUSH BARRIER MAY BE USED WHERE NATURAL GROUND IS LEVEL OR SLOPING AWAY FROM PROJECT.
 - PLACE BRUSH, LOG AND TREE LAPS APPROXIMATELY PARALLEL TO TOE OF FILL SLOPE WITH SOME OF THE HEAVIER MATERIALS BEING PLACED ON TO TO PROPERLY SECURE THE BARRIER AS DETAILED AT LOCATIONS SHOWN ON PLANS OR AS DIRECTED OR PERMITTED BY THE ENGINEER.
 - TO ALLOW WATER TO SEEP THROUGH BRUSH BARRIER, INTERMINGLE THE BRUSH, LOG AND TREE LAPS SO AS NOT TO FORM A SOLID DAM.
 - THE BRUSH BARRIER MAY BE CHOKED WITH FILTER FABRIC. THE COST OF FABRIC TO BE INCLUDED IN OTHER ITEMS BID.
 - TEMPORARY BRUSH BARRIER WILL NOT BE MEASURED FOR SEPARATE PAYMENT.

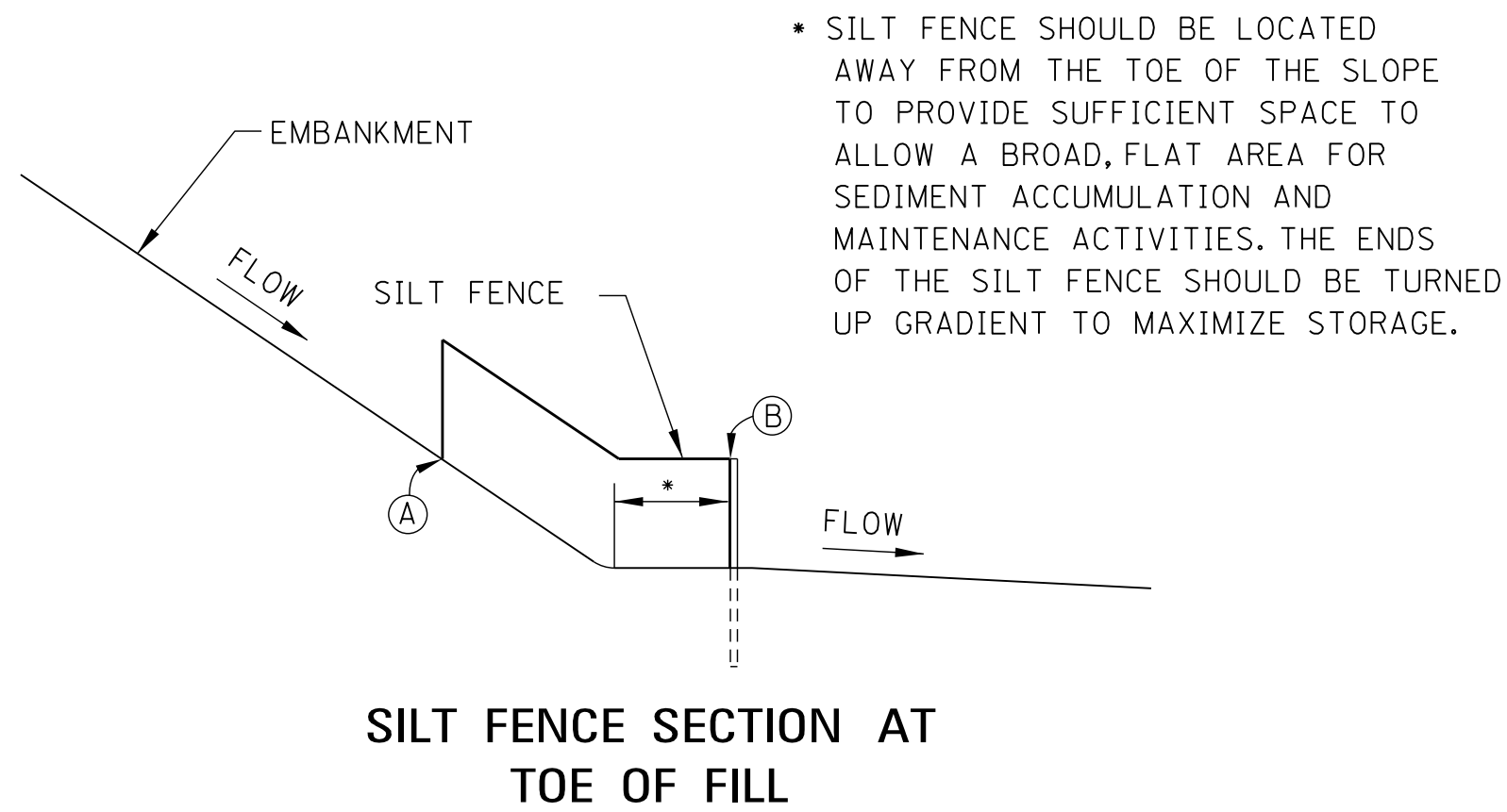
NOTE: ANCHOR AND INSTALL SILT FENCE PER DETAILS SHOWN ON WK. NO. ECD-3



"J-HOOK" SILT FENCE APPLICATION

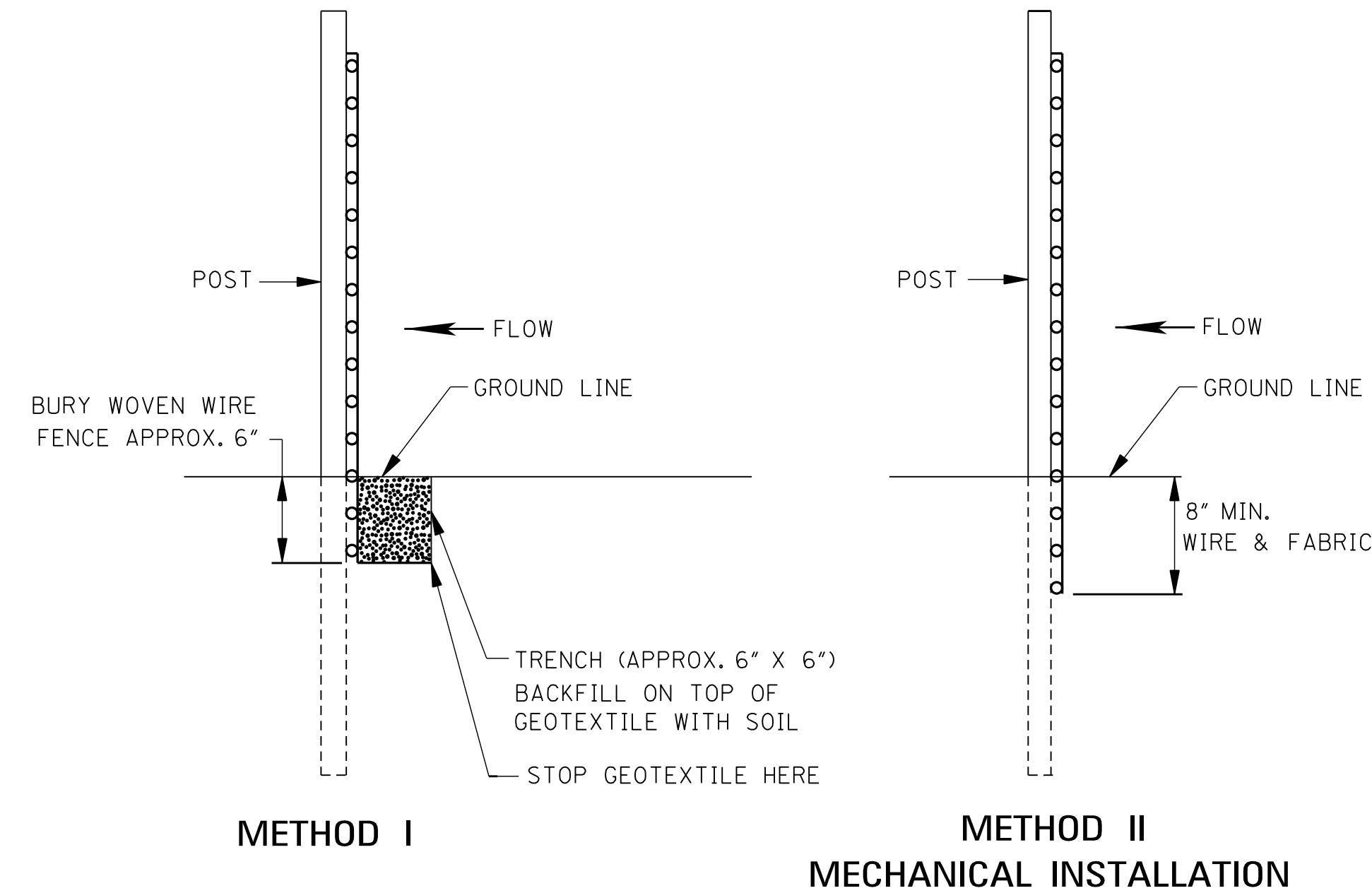
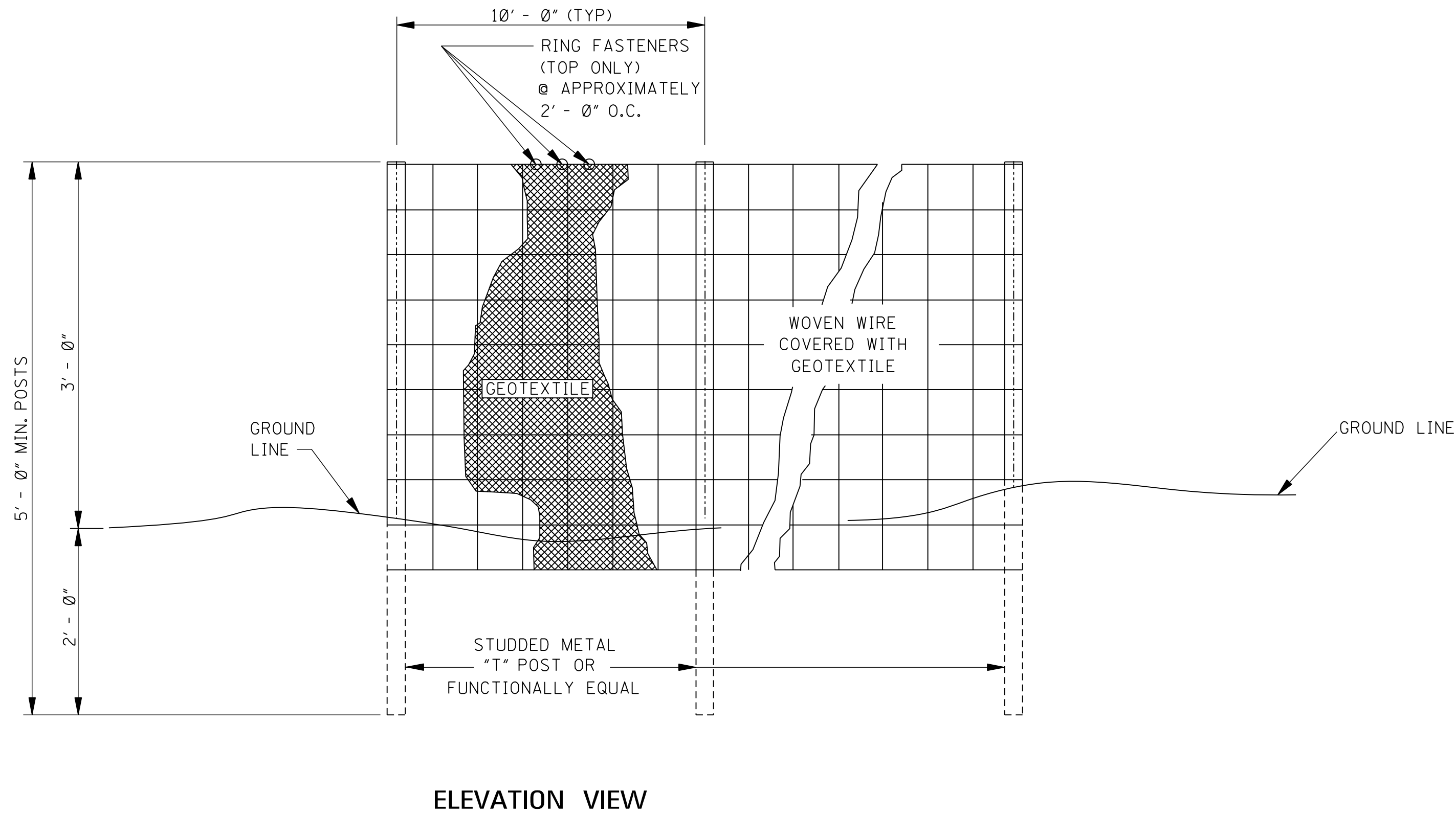


"SMILE-CONFIGURATION" SILT FENCE APPLICATION

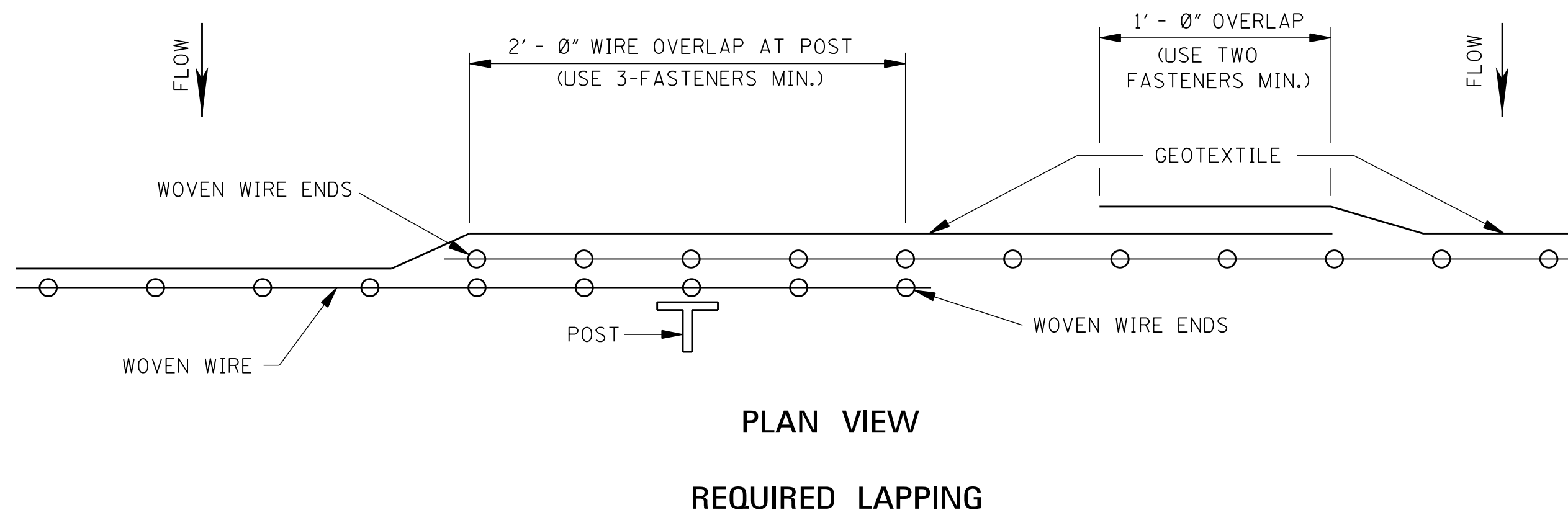


SILT FENCE SECTION AT TOE OF FILL

				BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN
				REVISION	DETAILS OF SEDIMENT BARRIER APPLICATIONS
				DATE	ISSUE DATE: AUGUST 01, 2017
					 WORKING NUMBER ECD-2 SHEET NUMBER 6102



SIDE VIEW



GENERAL NOTES:

1. SILT FENCES SHOULD BE USED IN AREAS WHERE FLOW IS NOT SEVERE.
2. SILT FENCES ARE TEMPORARY SEDIMENT CONTROL ITEMS THAT SHOULD BE ERECTED OPPOSITE ERODIBLE AREAS SUCH AS NEWLY GRADED FILL SLOPES AND ADJACENT TO STEAMS AND CHANNELS.
3. SILT FENCE SHOULD BE PLACED WELL INSIDE RIGHT-OF-WAY AND ALONG EDGE OF CLEARING LIMITS. THIS WILL ALLOW ROOM FOR BACK-UP FENCE IF FIRST FENCE BECOMES FULL.
4. WHENEVER POSSIBLE SILT FENCE SHOULD BE CONSTRUCTED ACROSS A LEVEL AREA IN THE SHAPE OF A SMILE. THIS AIDS IN PONDING OF RUNOFF AN FACILITATES SEDIMENTATION.
5. THE CONTRACTOR MAY ELECT TO USE EITHER METHOD I OR METHOD II. COST TO BE LINEAR FEET OF SILT FENCE.
6. METHOD II INSTALLATION SHALL BE ACCOMPLISHED USING AN IMPLEMENT THAT IS MANUFACTURED FOR THE APPLICATION AND PROVIDES A CONFIGURATION MEETING THE REQUIREMENTS OF DETAIL.
7. WIRE SHALL BE A MINIMUM OF 32" IN WIDTH AND SHALL HAVE A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
8. GEOTEXTILE FABRIC MEETING THE TYPE II MATERIAL REQUIREMENTS AND INSTALLED ACCORDING TO SPECIFICATION MAY BE USED WITHOUT WIRE FENCE.

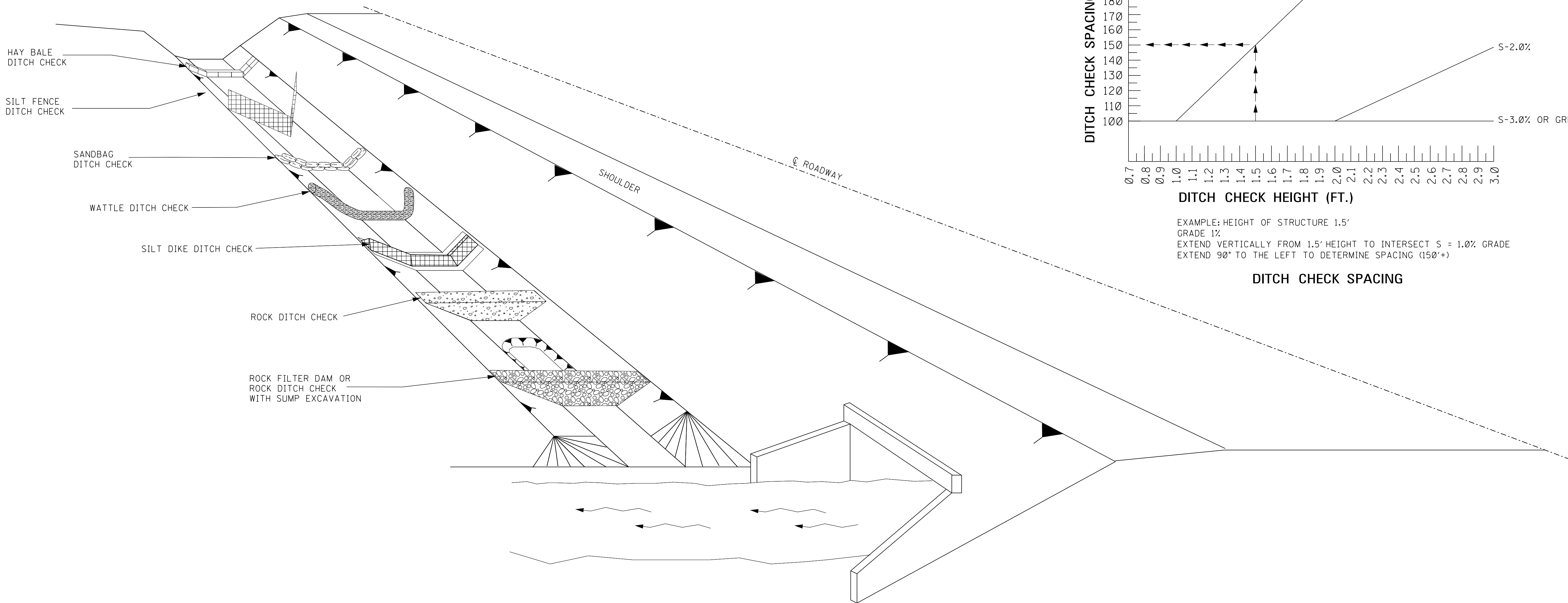
				BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN
				REVISION	
				DATE	
				DATE	ISSUE DATE: AUGUST 01, 2017

DETAILS OF SILT FENCE INSTALLATION

MDOT
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

WORKING NUMBER
ECD-3

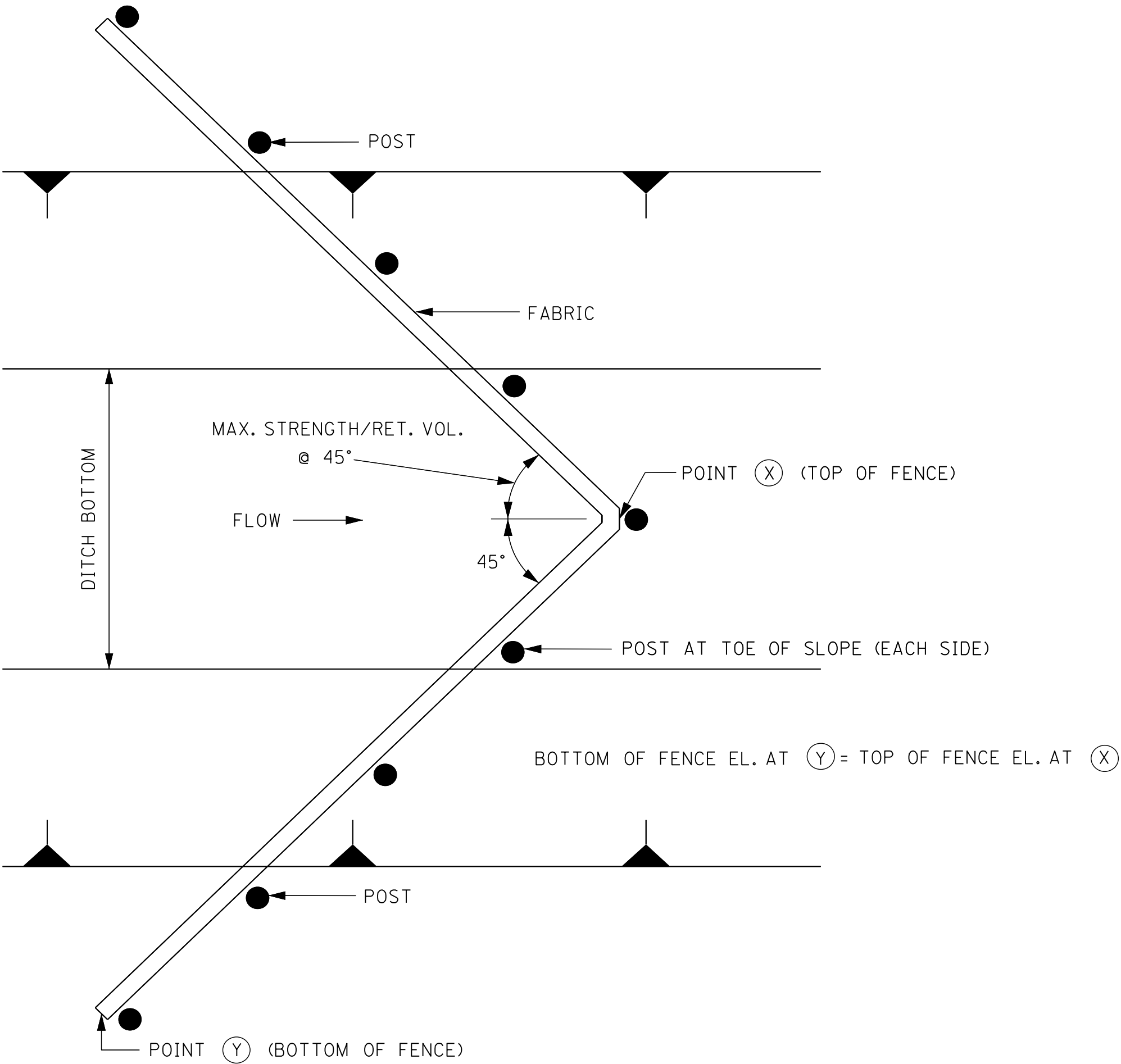
SHEET NUMBER
6103



GENERAL NOTES:

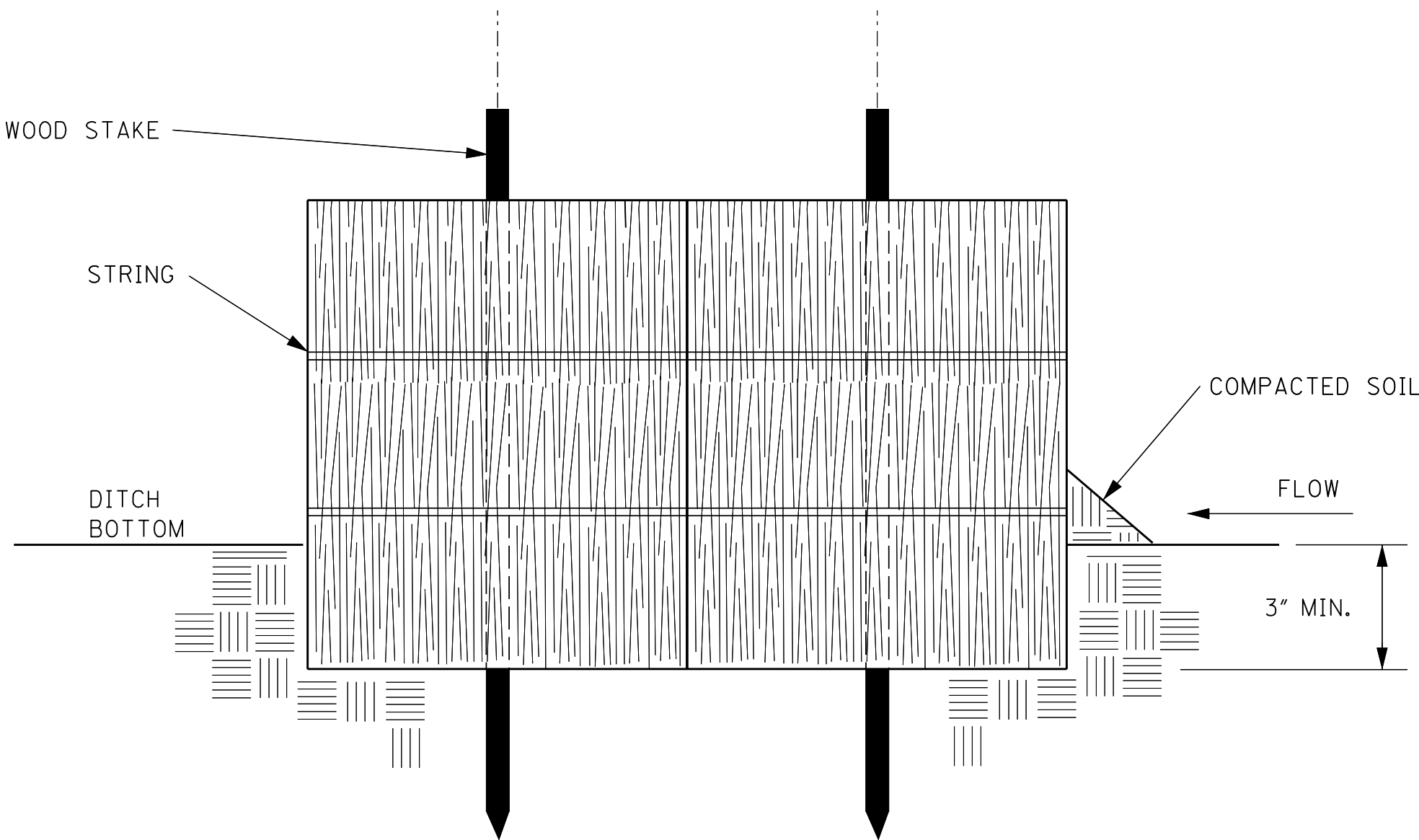
1. THE DITCH CHECK PERSPECTIVE ILLUSTRATES A TOOL BOX OF TEMPORARY PRACTICES THAT MAY BE USED. DITCH CHECKS ARE INSTALLED TO CONTROL RUNOFF VELOCITY AND THUS REDUCE EROSION AND PROVIDE FOR TRAPPING OF SEDIMENTS.
2. SELECTION OF THE APPROPRIATE DITCH CHECK SHOULD BE A FUNCTION OF CONSTRUCTION PHASE, DRAINAGE AREA, DITCH GRADIENT, SOIL TYPE, ECONOMY AND SAFETY.
3. DITCH CHECKS CAN BE REMOVED FOR MAINTENANCE AND/OR REPLACEMENT BUT MUST REMAIN IN PLACE UNTIL UPSLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED. MAINTENANCE INCLUDES REMOVAL OF SEDIMENT BEGINNING WHEN SEDIMENT ACCUMULATION REACHES $\frac{1}{3}$ THE CAPACITY OR HEIGHT OF THE STRUCTURE AND NEVER ALLOWING FOR SEDIMENT TO ACCUMULATE MORE THAN $\frac{1}{2}$ THE VOLUME OR HEIGHT OF THE DITCH CHECK STRUCTURE.
4. HAY BALES SHOULD BE USED TO INTERCEPT LOW VOLUME FLOWS IN LOW TO MODERATE GRADIENT DITCHES.
5. SILT FENCE DITCH CHECKS SHOULD BE USED WHERE IT HAS BEEN DETERMINED THAT HAY BALE CHECKS ARE INADEQUATE. SILT FENCE DITCH CHECKS SHOULD BE USED TO INTERCEPT LOW VOLUME FLOWS IN LOW TO MODERATE GRADIENT DITCHES.
6. SANDBAG DITCH CHECKS SHOULD BE USED FOR VELOCITY REDUCTION AND MINIMAL SEDIMENT TRAPPING IN CONCRETE PAVED DITCHES OR IN DITCHES THAT HAVE ROCK BOTTOMS.
7. WATTLE DITCH CHECKS CAN BE USED FOR VELOCITY REDUCTION AND CONTROL OF SEDIMENT TRANSPORT UNDER LOW TO MEDIUM FLOW CONDITIONS.
8. SILT DIKES CAN BE USED IN DITCHES WITH CONCENTRATED FLOWS WITHIN THE CLEAR ZONE WHERE RIPRAP CAN NOT BE USED, AS CONSTRUCTION PROGRESSES.
9. ROCK DITCH CHECKS WITH SUMP EXCAVATION CAN BE PLACED IN DITCHES TO ASSURE ON-SITE SEDIMENT TRAPPING REQUIREMENTS ARE MET. DITCH CHECK WITH SUMP EXCAVATION IS USED WHEN DITCHES RECEIVE DRAINAGE FROM CUT OR FILL SLOPES OR OTHER CRITICAL AREAS WHERE SOIL EROSION IS EXPECTED. DRAINAGE AREA FOR A TEMPORARY SEDIMENT TRAP SHOULD BE LIMITED TO 3 ACRES. THEY CAN BE USED IN SERIES TO INCREASE ON-SITE SEDIMENT TRAPPING EFFICIENCY.
10. DITCH CHECKS, IN NO CASE, SHALL BE PLACED IN LIVE STREAMS.
11. CONFIGURATION AND SPACING MAY BE ADJUSTED IF APPROVED BY THE ENGINEER TO ACCOMMODATE TRAVELWAY SAFETY, WATER FLOW, OR SOIL AND INSTALLATION CHALLENGES.

				BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
				REVISION		
				DATE	ISSUE DATE: AUGUST 01, 2017	
					DITCH CHECK STRUCTURES, TYPICAL APPLICATIONS AND DETAILS	
					 WORKING NUMBER ECD-4 SHEET NUMBER 6104	

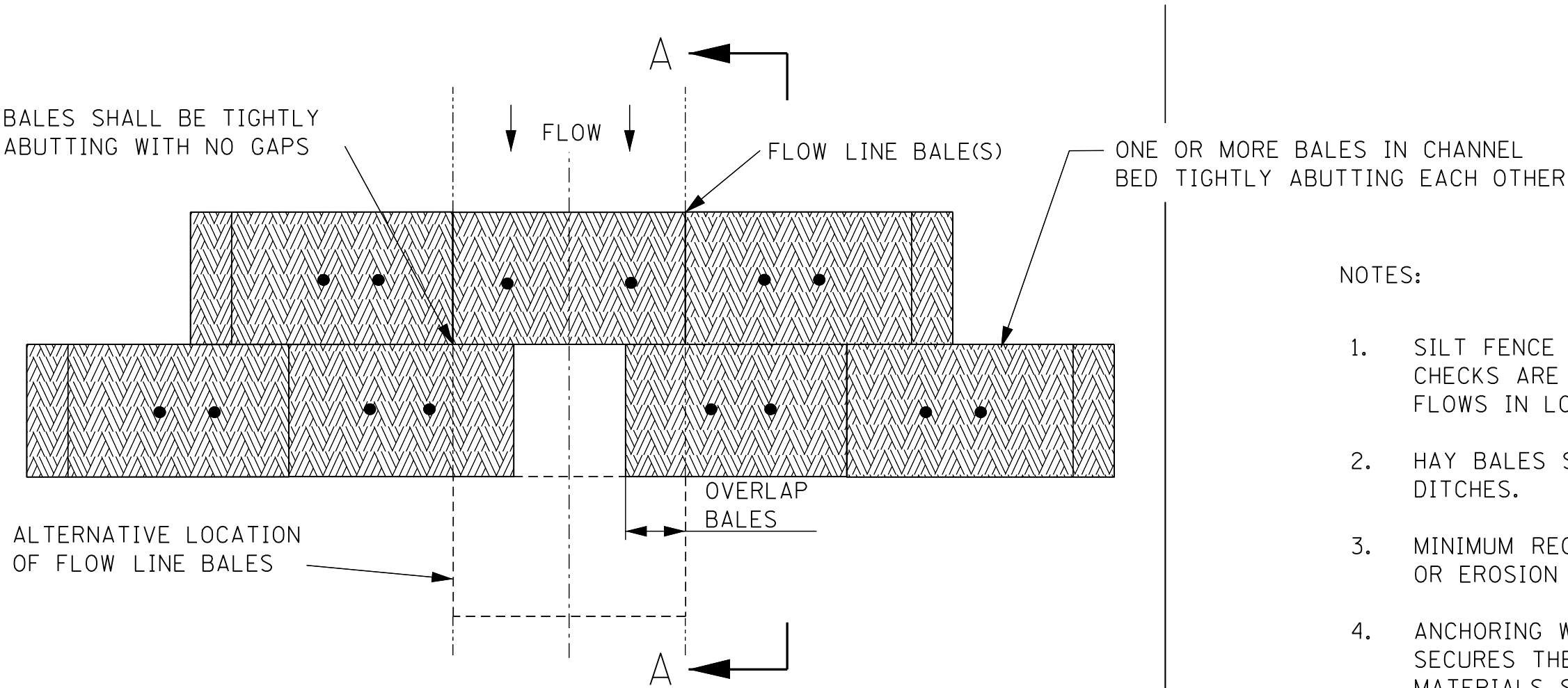


PLAN VIEW

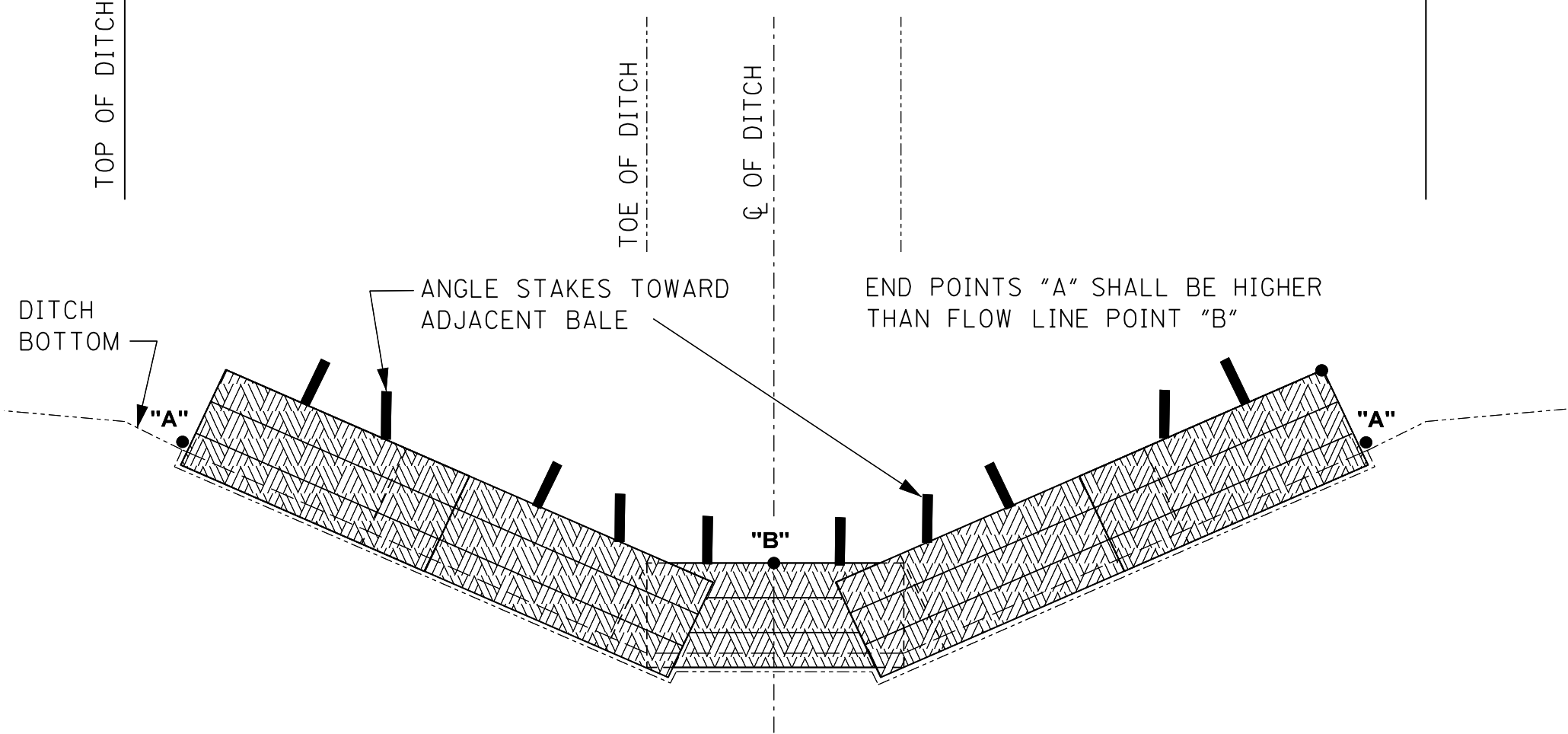
- NOTES:
1. ANCHOR AND INSTALL PER DETAILS FOR SILT FENCE SPACING GUIDELINES ON WK. NO. ECD-4.
 2. A "W" SHAPE MAY BE USED FOR WIDER DITCHES.



SECTION A-A



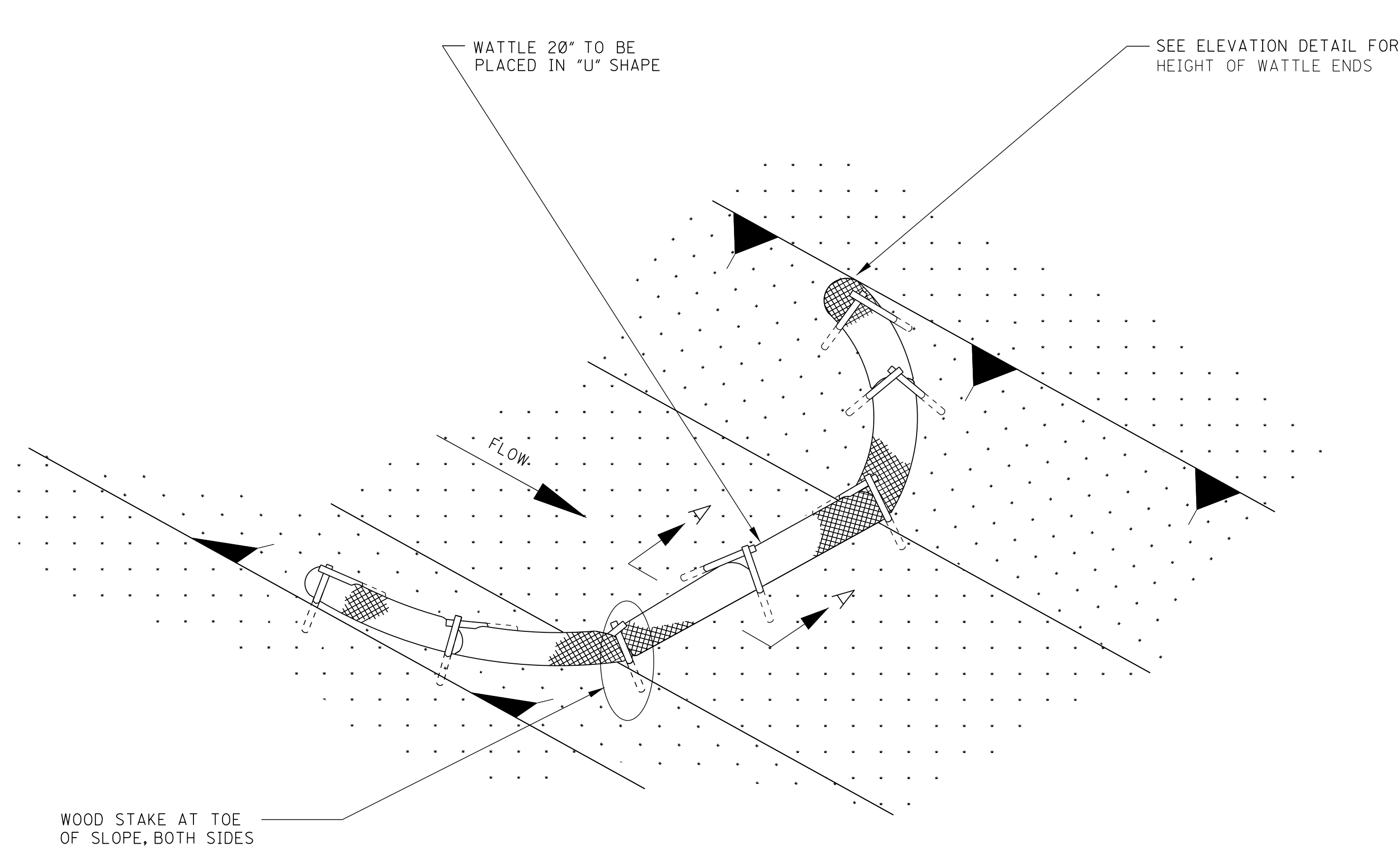
PLAN VIEW
TRAPEZOIDAL DITCH



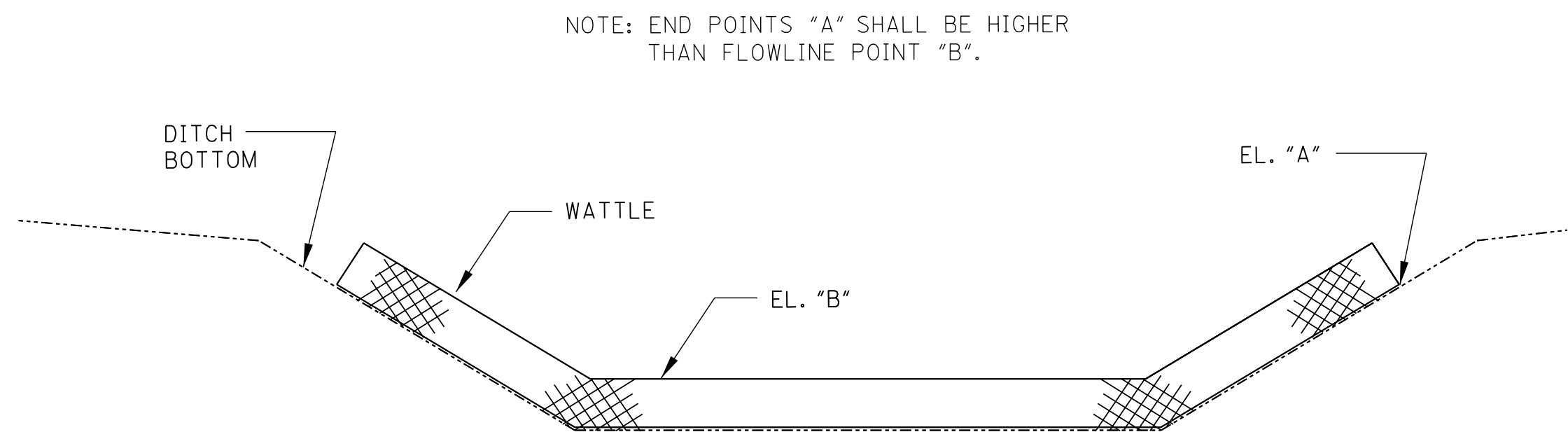
PROFILE VIEW
TRAPEZOIDAL DITCH

- NOTES:
1. SILT FENCE DITCH CHECKS SHOULD BE USED WHERE IT HAS BEEN DETERMINED THAT HAY BALE CHECKS ARE INADEQUATE. SILT FENCE DITCH CHECKS SHOULD BE USED TO INTERCEPT LOW VOLUME FLOWS IN LOW TO MODERATE GRADIENT DITCHES.
 2. HAY BALES SHOULD BE USED TO INTERCEPT LOW VOLUME FLOWS IN LOW TO MODERATE GRADIENT DITCHES.
 3. MINIMUM RECOMMENDED CHECK SPACING IS 100 FEET UNLESS SHOWN OTHERWISE ON THE PLANS OR EROSION CONTROL PLAN APPROVED BY THE ENGINEER. SEE SPACING GUIDANCE ON WK. NO. ECD-4.
 4. ANCHORING WOOD STAKES SHALL BE SIZED, SPACED, AND BE OF A MATERIAL THAT EFFECTIVELY SECURES THE CHECK. A MINIMUM OF TWO STAKES PER BALE IS REQUIRED. ALL NON-DEGRADABLE MATERIALS SHALL BE REMOVED WHEN NO LONGER NEEDED.
 5. BALES SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 3 INCHES.
 6. BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES. THE BALES SHALL BE PLACED WITH BINDINGS PARALLEL TO THE GROUND.
 7. SOIL IS COMPACTED ALONG THE BASE OF THE UPSTREAM FACE TO PREVENT PIPING.
 8. MULTIPLE ADJACENT ROWS OF BALES ARE REQUIRED AS SHOWN.

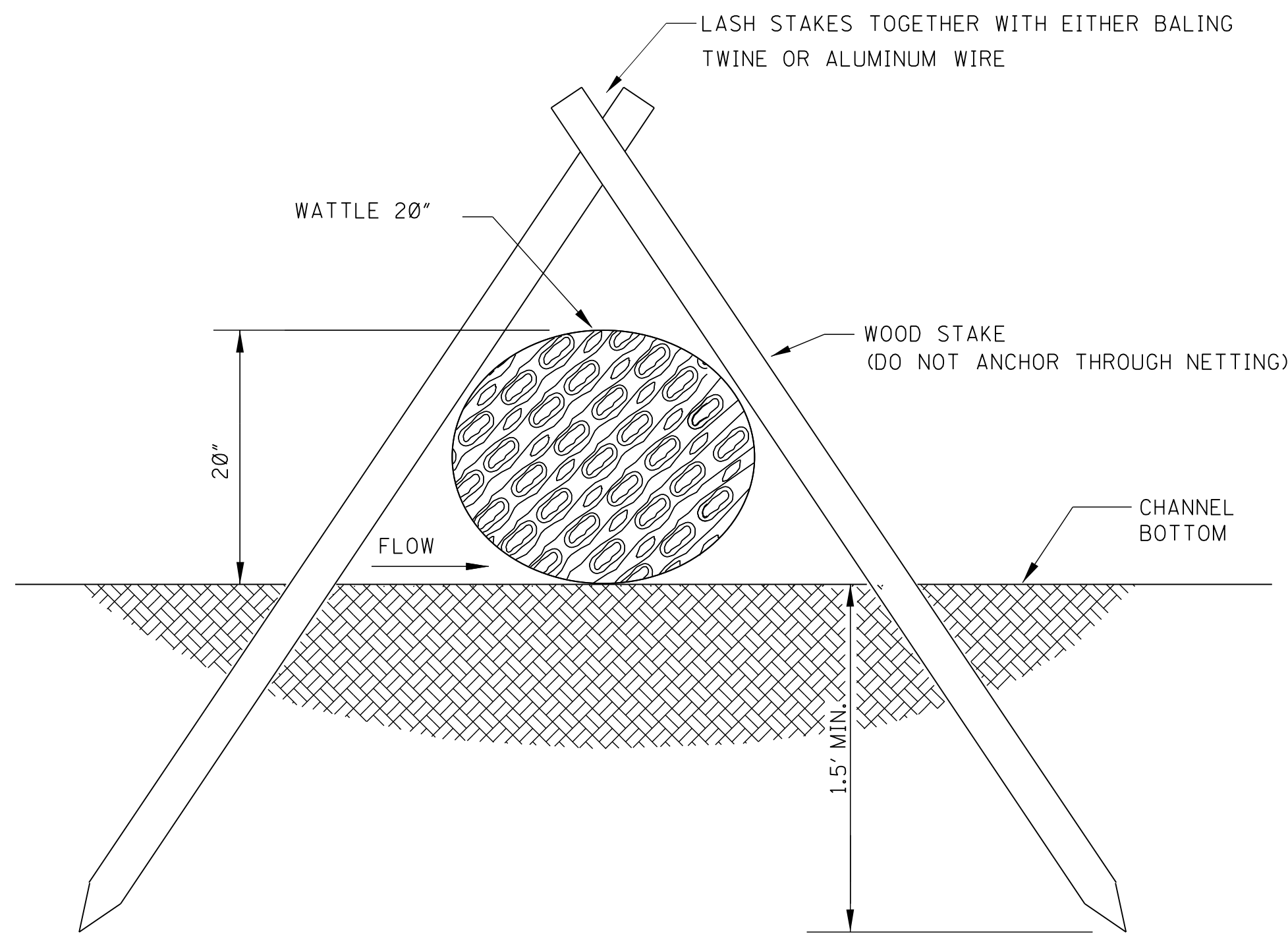
				BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN
				REVISION	TEMPORARY EROSION, SEDIMENT, AND WATER POLLUTION CONTROL MEASURES (SILT FENCE AND HAY BALE DITCH CHECKS)
				DATE	ISSUE DATE: AUGUST 01, 2017
					 WORKING NUMBER ECD-5 SHEET NUMBER 6105



DETAIL (DITCH CHECK)



ELEVATION DETAIL



SECTION A-A

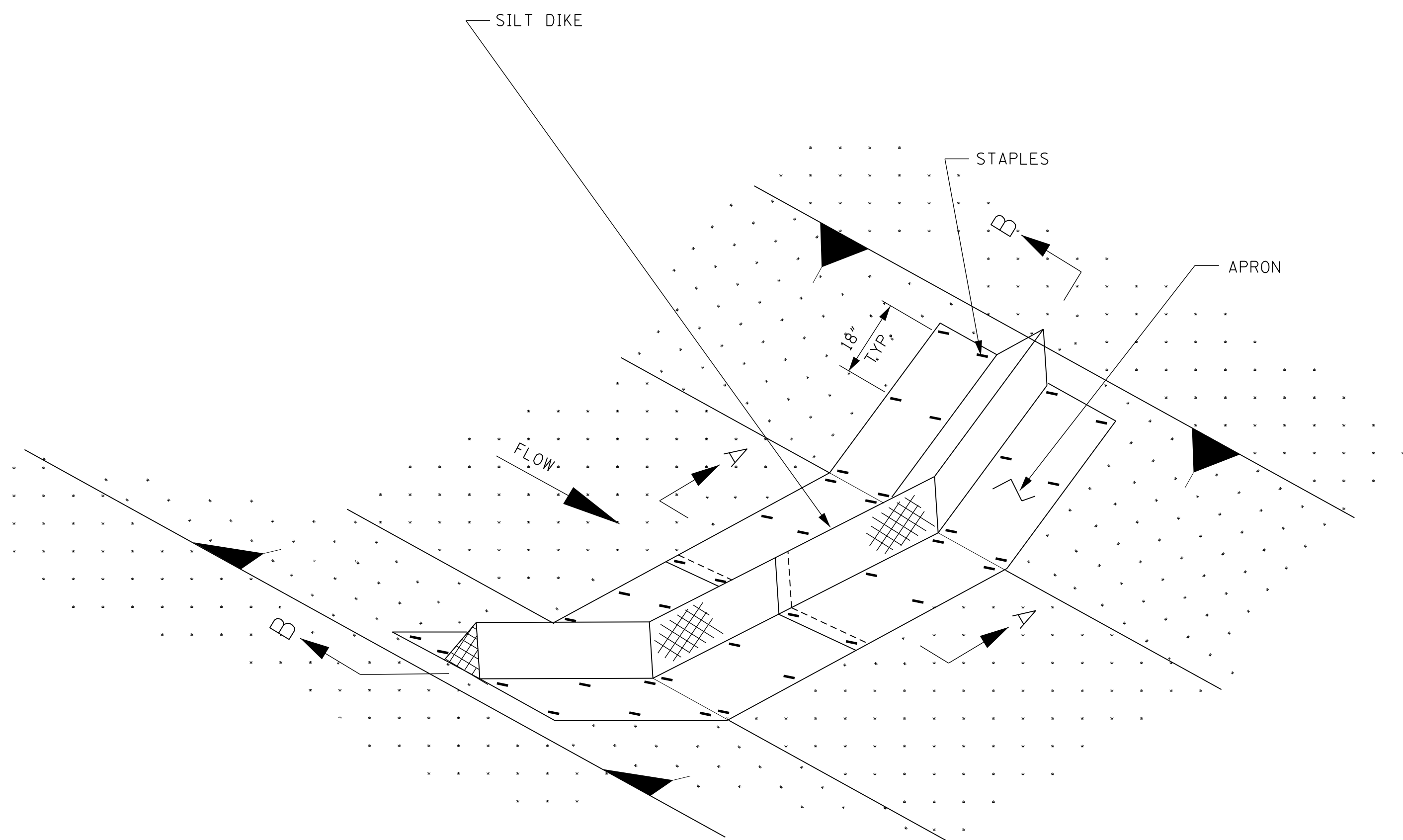
- NOTES:
1. WATTLE DITCH CHECKS CAN BE USED FOR VELOCITY REDUCTION AND CONTROL OF SEDIMENT TRANSPORT UNDER LOW TO MEDIUM FLOW CONDITIONS.
 2. THE PLACEMENT INTERVAL BETWEEN WATTLE DITCH CHECK SHALL BE 100' UNLESS SHOWN OTHERWISE ON THE PLANS OR EROSION CONTROL PLAN APPROVED BY THE ENGINEER. SEE SPACING GUIDANCE ON WK. NO. ECD-4.
 3. ANCHORING WOOD STAKES SHALL BE SIZED, SPACED, DRIVEN, AND BE OF A MATERIAL THAT EFFECTIVELY SECURES THE CHECK. STAKE SPACING SHALL BE A MAXIMUM OF THREE FEET. ALL NON-DEGRADABLE MATERIALS SHALL BE REMOVED WHEN NO LONGER NEEDED.
 4. TRENCHING OF WATTLES MAY BE NECESSARY IF PIPING BECOMES EVIDENT.
 5. WATTLES SHOULD NOT BE USED IN HARD BOTTOM CHANNELS.
 6. IN THE EVENT WATTLES CANNOT BE SECURED IN PLACE USING WOOD STAKES, SAND BAGS MAY BE USED IN LIEU OF WOOD STAKES IN ORDER TO SECURE THE WATTLES IN PLACE. IF SANDS BAGS ARE USED IN THIS APPLICATION THEY WILL NOT BE A SEPARATE PAY ITEM.

				BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN
				REVISION	
				DATE	
				ISSUE DATE:	AUGUST 01, 2017

**DETAILS OF EROSION
CONTROL WATTLE
DITCH CHECK**

WORKING NUMBER
ECD-6

SHEET NUMBER
6106

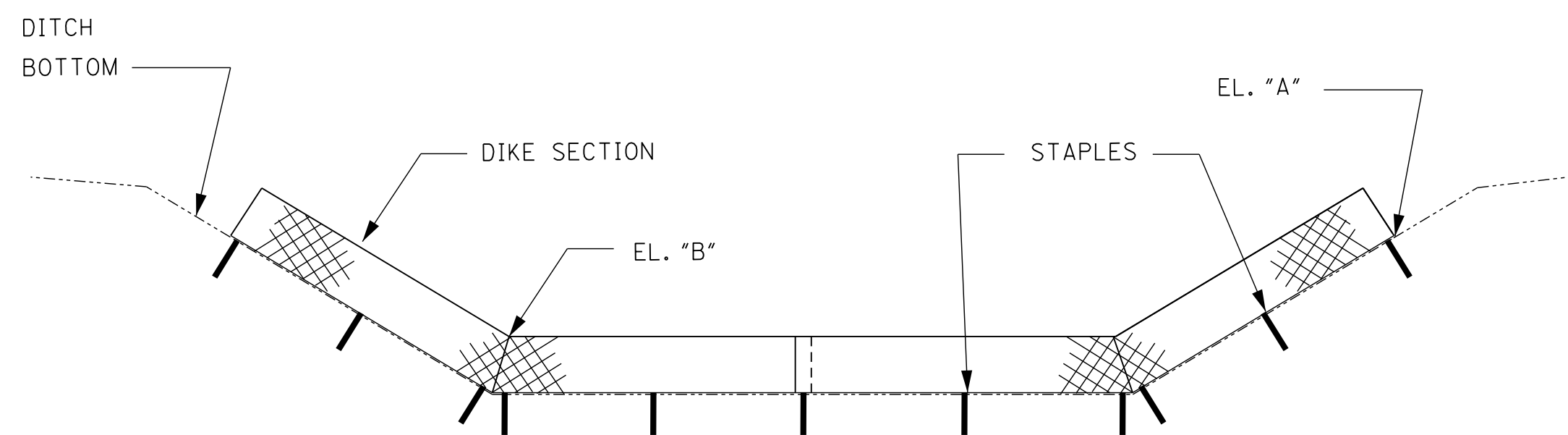


NOTES:

NOTES:

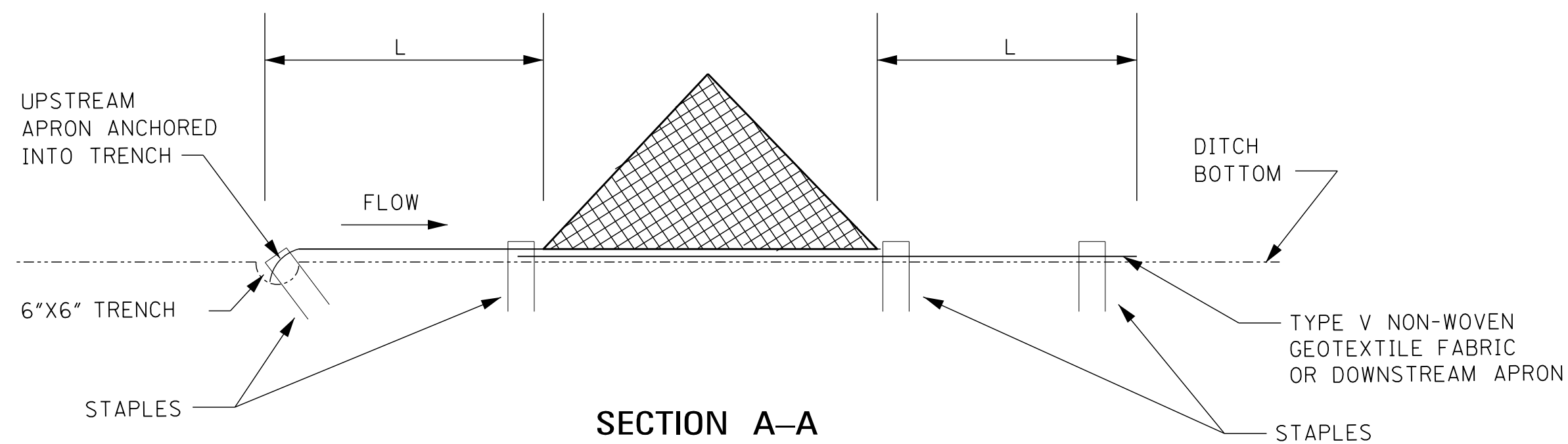
- SILT DIKES CAN BE USED IN DITCHES WITH CONCENTRATED FLOWS WITHIN THE CLEAR ZONE WHERE RIPRAP CANNOT BE USED.
- SILT DIKES MAY ALSO BE USED:
 - IN AREAS WHERE CONSTRUCTION TRAFFIC TRAVELS (AS SHOWN ON WK. NO. ECD-16), PROVIDED THE SILT DIKE REBOUNDS TO ITS ORIGINAL SHAPE. SILT DIKES WHICH DO NOT REBOUND TO THEIR ORIGINAL SHAPE SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE DEPARTMENT.
 - AT THE ENDS OF AND ALONG THE EDGES OF CONSTRUCTION ROADS THAT CROSS THE WATERS OF THE U.S. (AS SHOWN ON WK. NO. ECD-17).
- THE PLACEMENT INTERVAL BETWEEN SILT DIKE DITCH CHECK SHALL BE 100' UNLESS SHOWN OTHERWISE ON THE PLANS OR EROSION CONTROL PLAN APPROVED BY THE ENGINEER. SEE SPACING GUIDANCE ON WK. NO. ECD-4.
- INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- THE TRIANGULAR SILT DIKE SHAPE IS ONLY SHOWN FOR DEPICTION PURPOSES. OTHER SHAPED SILT DIKES MAY BE USED.
- WHEN THE SILT DIKE, USED AS A DITCH CHECK, IS MANUFACTURED WITH AN APRON ON ONE SIDE ONLY, THE SILT DIKE SHALL BE INSTALLED AS SHOWN IN SECTION A-A. THE APRON SHALL BE INSTALLED ON THE UPSTREAM SIDE AND TYPE V NON-WOVEN GEOTEXTILE FABRIC INSTALLED ON THE DOWNSTREAM SIDE.
- THE COST OF THE FABRIC SHALL BE INCLUDED IN OTHER ITEMS BID.

PLAN VIEW



POINT "A" SHALL BE HIGHER THAN POINT "B" TO ENSURE THAT WATER FLOWS OVER THE DIKE AND NOT AROUND THE ENDS

SECTION B-B

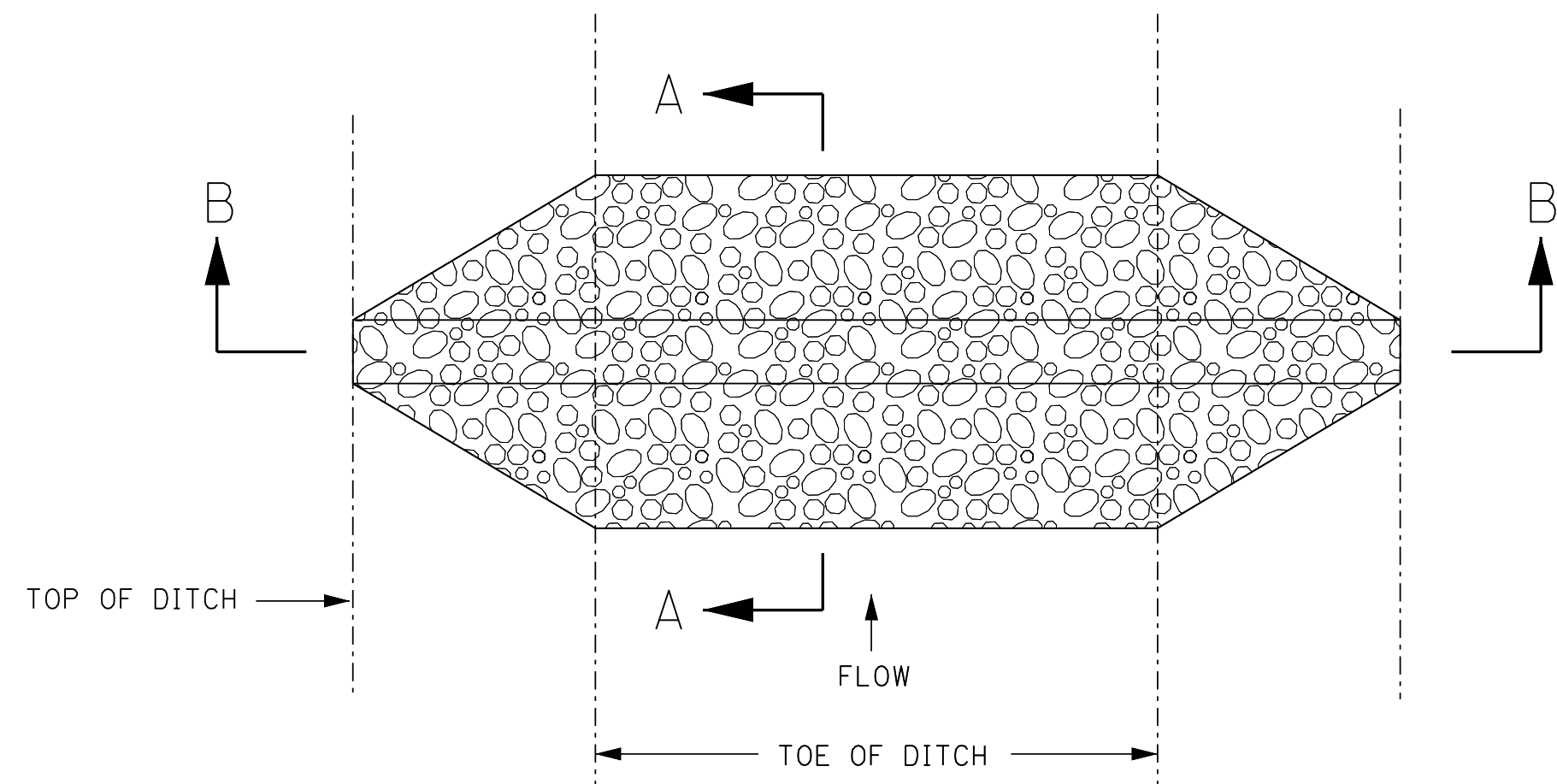


NOTE: STAPLES SHALL BE PLACED WHERE THE UNITS OVERLAP AND IN THE CENTER OF THE UNIT

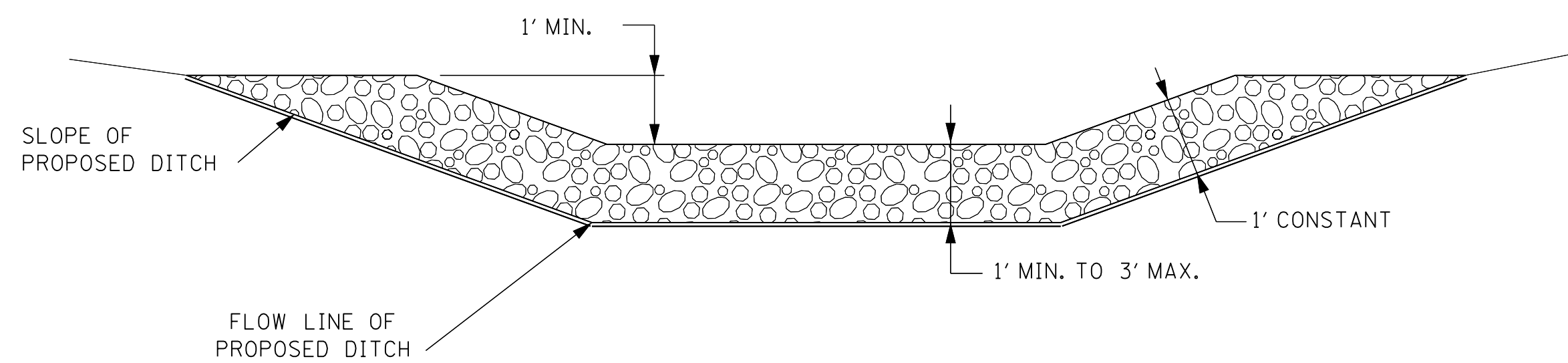
SECTION A-A

SILT DIKE INSTALLATION FOR ROADWAY DITCHES

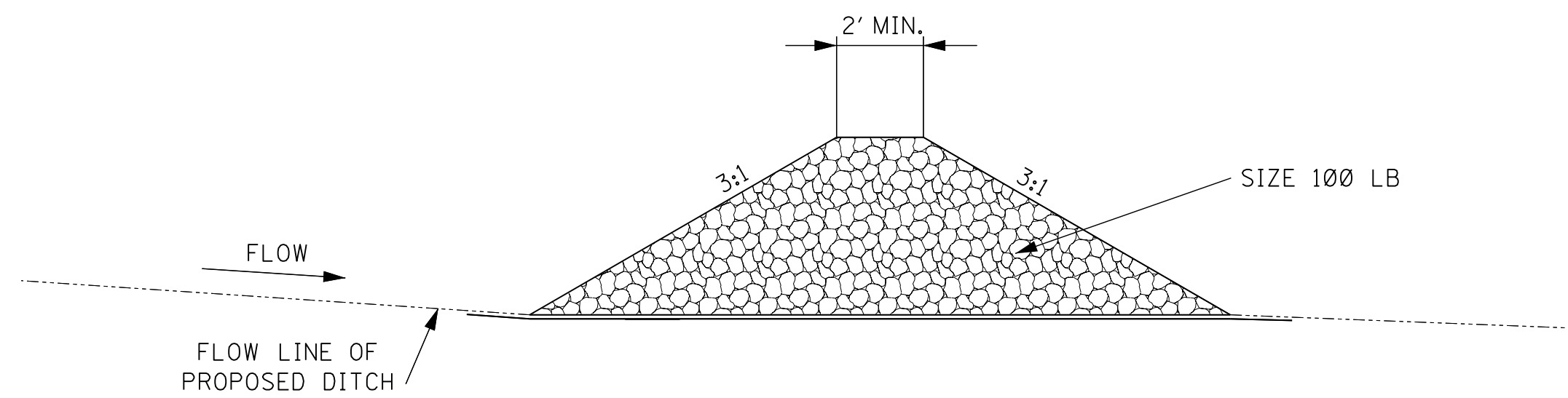
				BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN
				REVISION	DETAILS OF EROSION CONTROL SILT DIKE DITCH CHECK
				DATE	ISSUE DATE: AUGUST 01, 2017
					 WORKING NUMBER ECD-7 SHEET NUMBER 6107



PLAN VIEW
DETAIL FOR TRAPEZOIDAL DITCH

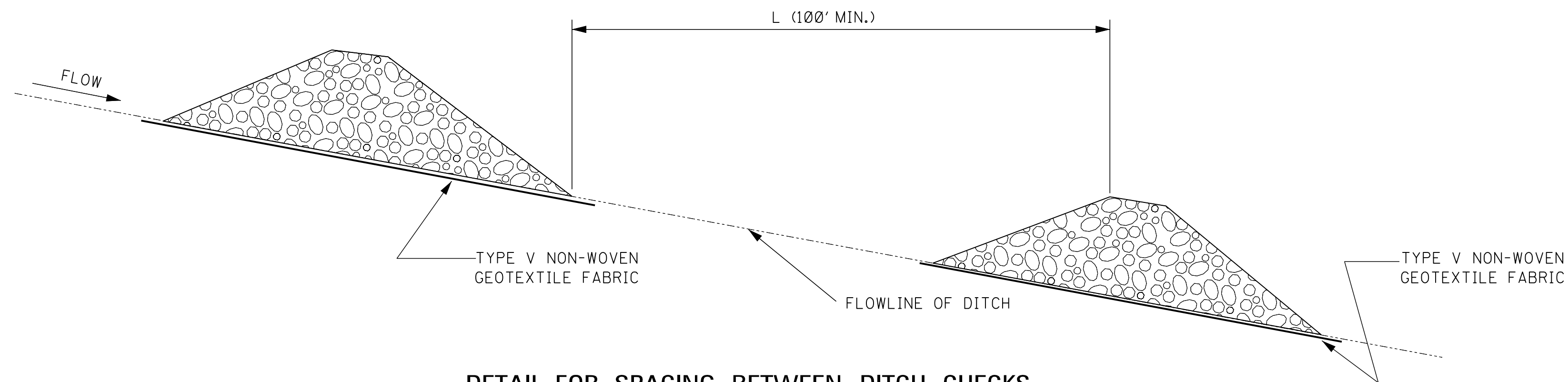


SECTION B-B



SECTION A-A

TEMPORARY ROCK DITCH CHECKS IN ROADSIDE DITCHES

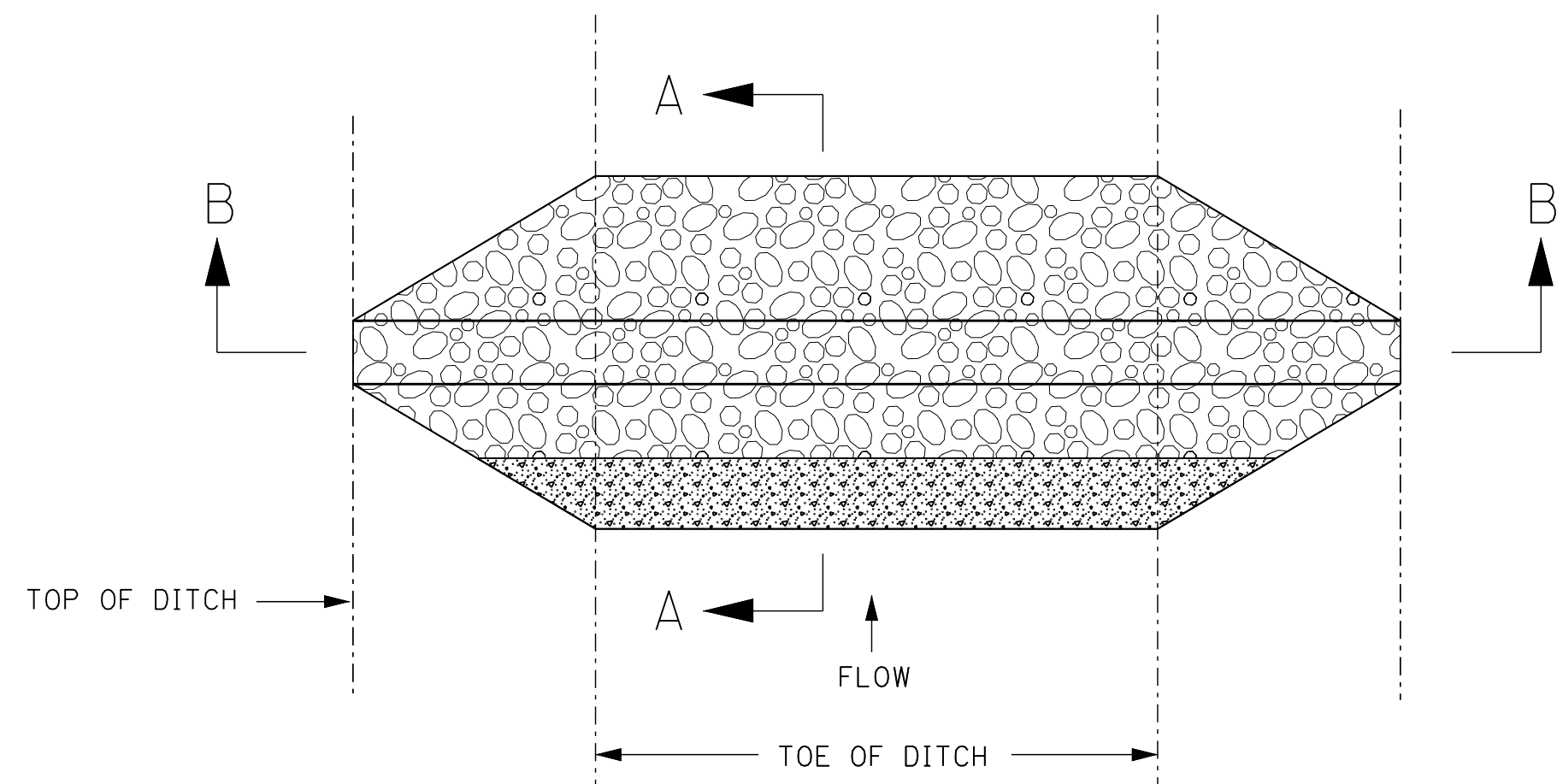


DETAIL FOR SPACING BETWEEN DITCH CHECKS

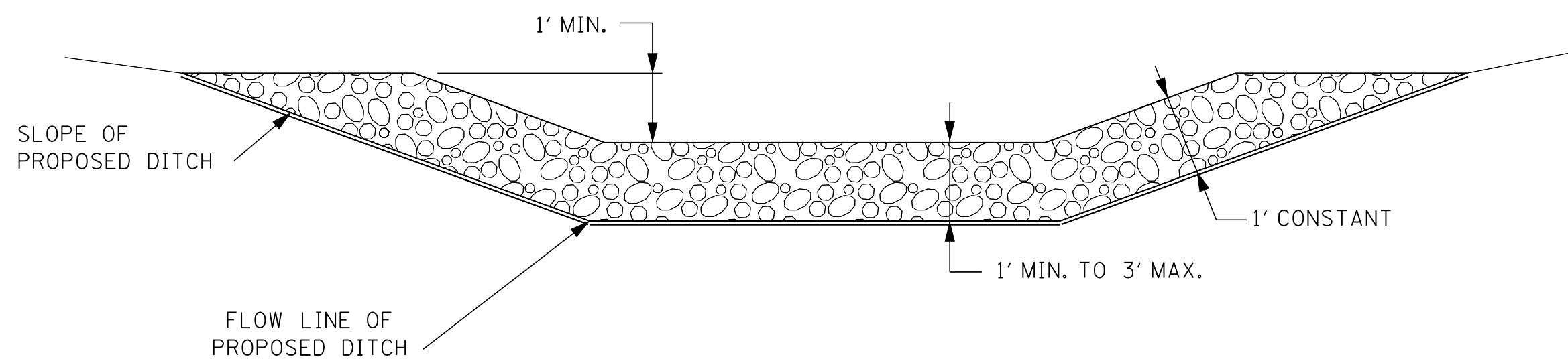
NOTES:

1. ROCK DITCH CHECKS SHOULD ONLY BE USED FOR REDUCING THE VELOCITY OF FLOWING WATER.
2. MINIMUM SPACING FOR ROCK DITCH CHECKS IS 100 FEET UNLESS OTHERWISE SHOWN ON THE PLANS OR EROSION CONTROL PLAN APPROVED BY THE ENGINEER. SEE SPACING GUIDANCE ON WK. NO. ECD-4.
3. ROCK DITCH CHECKS SHOULD ONLY BE USED UP-GRADIENT OF AND ALONG WITH ADDITIONAL DOWN-GRADIENT SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMP'S).
4. THE COST OF FABRIC SHALL BE INCLUDED IN OTHER ITEMS BID.

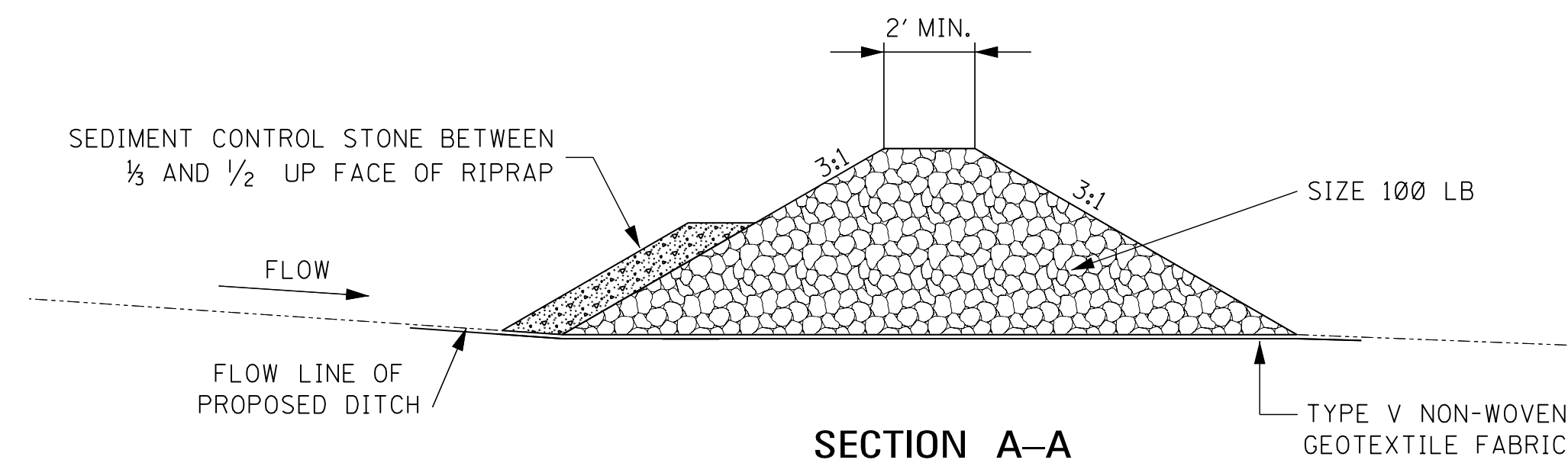
				BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN
				REVISION	ROCK DITCH CHECK
				DATE	ISSUE DATE: AUGUST 01, 2017
					 WORKING NUMBER ECD-8 SHEET NUMBER 6108



PLAN VIEW
DETAIL FOR TRAPEZOIDAL DITCH

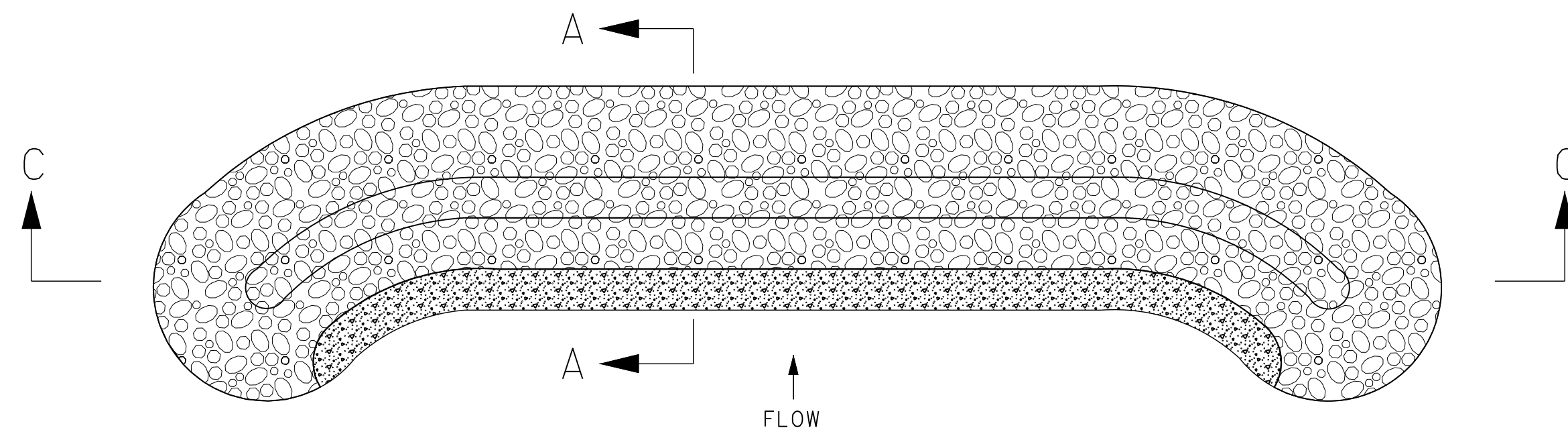


SECTION B-B

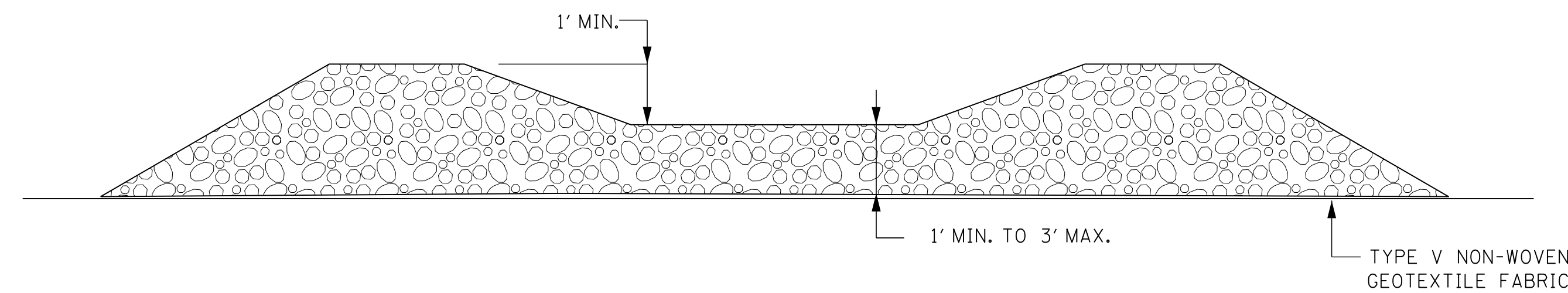


SECTION A-A

TEMPORARY ROCK DITCH CHECKS IN ROADSIDE DITCHES



PLAN VIEW
DETAIL FOR USE OTHER THAN DITCH



SECTION C-C

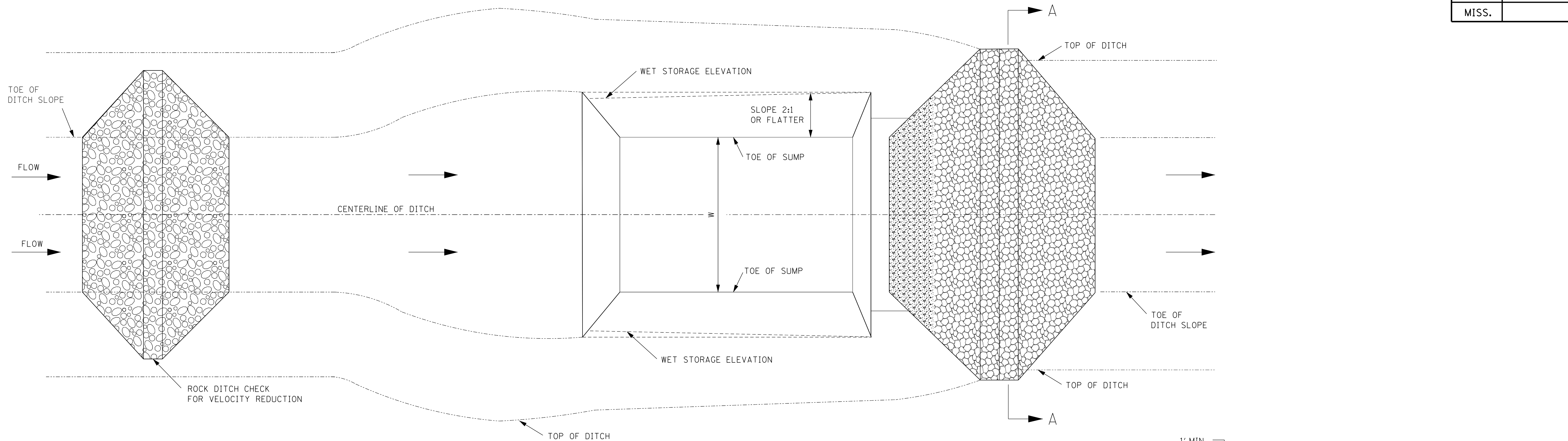
GENERAL NOTES:

- ROCK FILTER DAMS (RFD) MAY BE USED AS A DISCHARGE STRUCTURE WHILE WORKING WITH HIGHLY EROSIONAL SOIL. RFD'S MAY BE USED AS PART OF A "BMP TRAIN" AND MAY BE USED IN SUCCESSION AT A MINIMUM SPACING OF 100 FT. OR PER THE EROSION CONTROL PLAN APPROVED BY THE ENGINEER.
- THE COST OF THE FABRIC SHALL BE INCLUDED IN OTHER ITEMS BID.

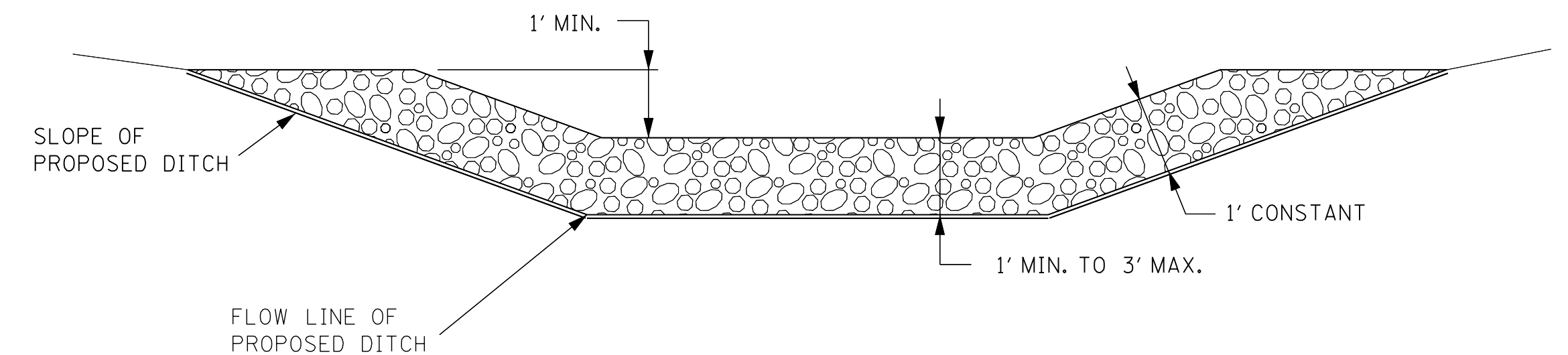
				BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN
				REVISION	
				DATE	ISSUE DATE: AUGUST 01, 2017

ROCK FILTER DAM

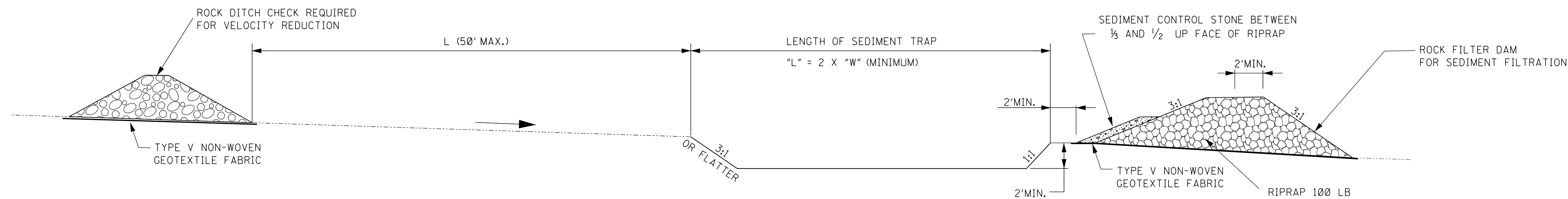

WORKING NUMBER
ECD-9
SHEET NUMBER
6109



PLAN VIEW



SECTION A-A

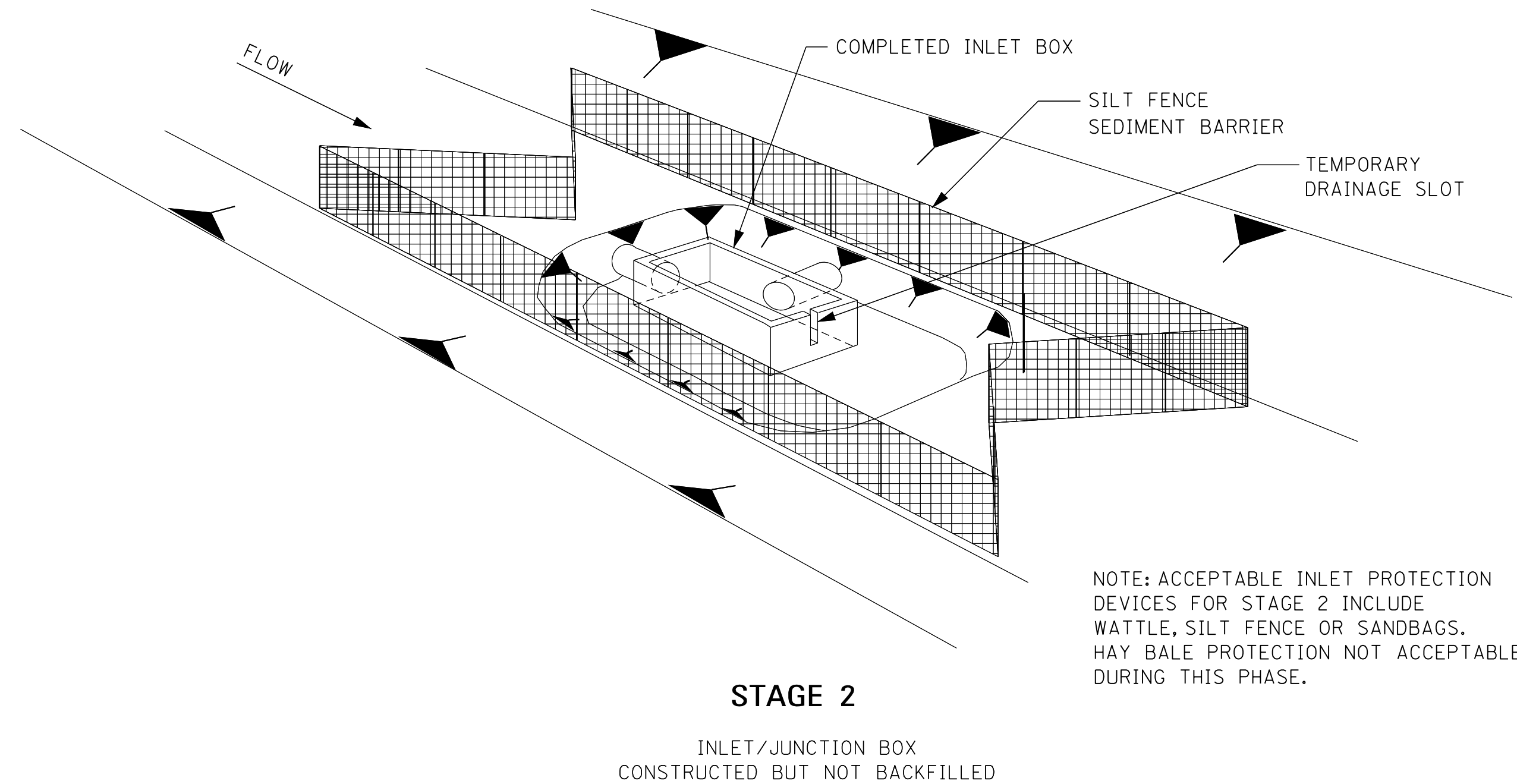
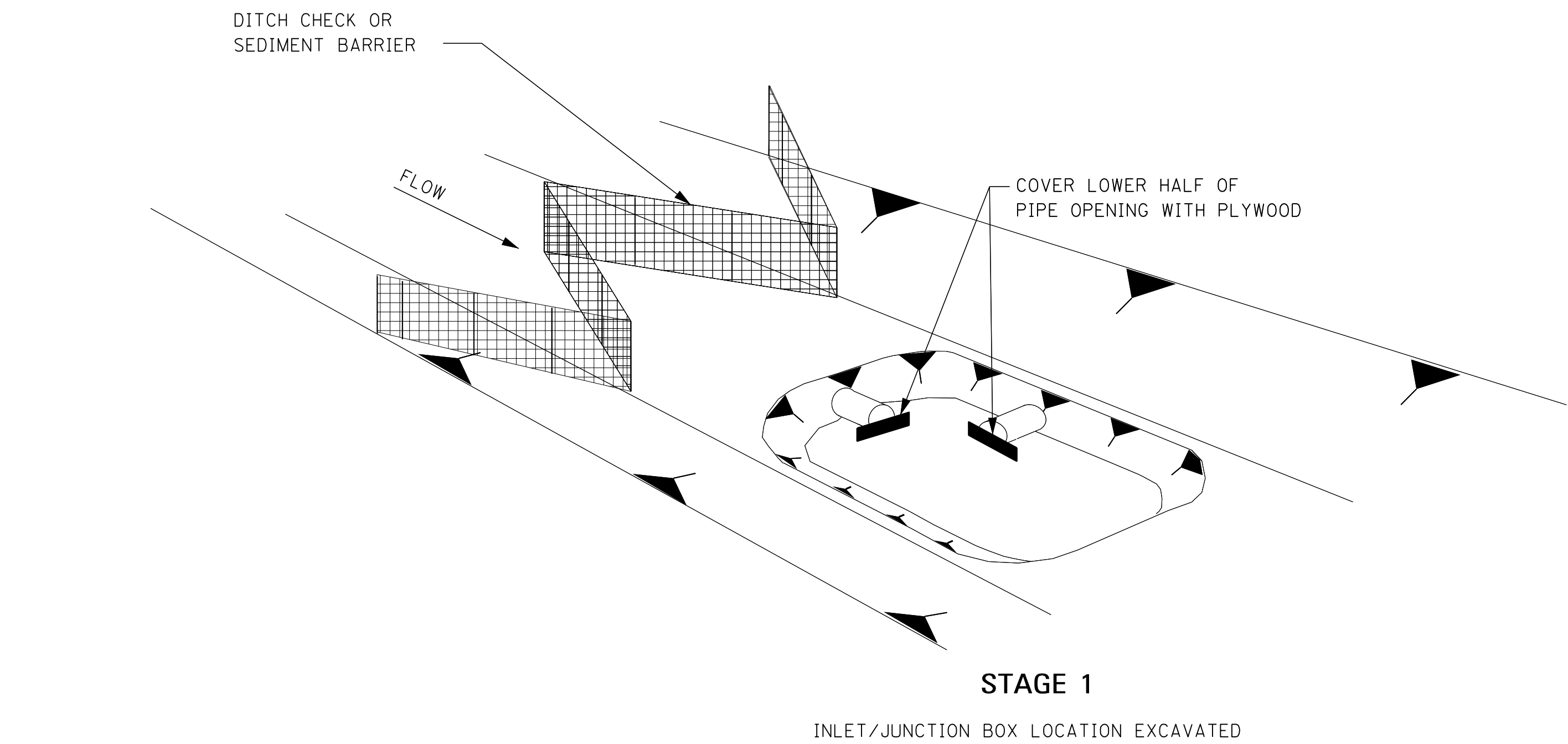


PROFILE VIEW

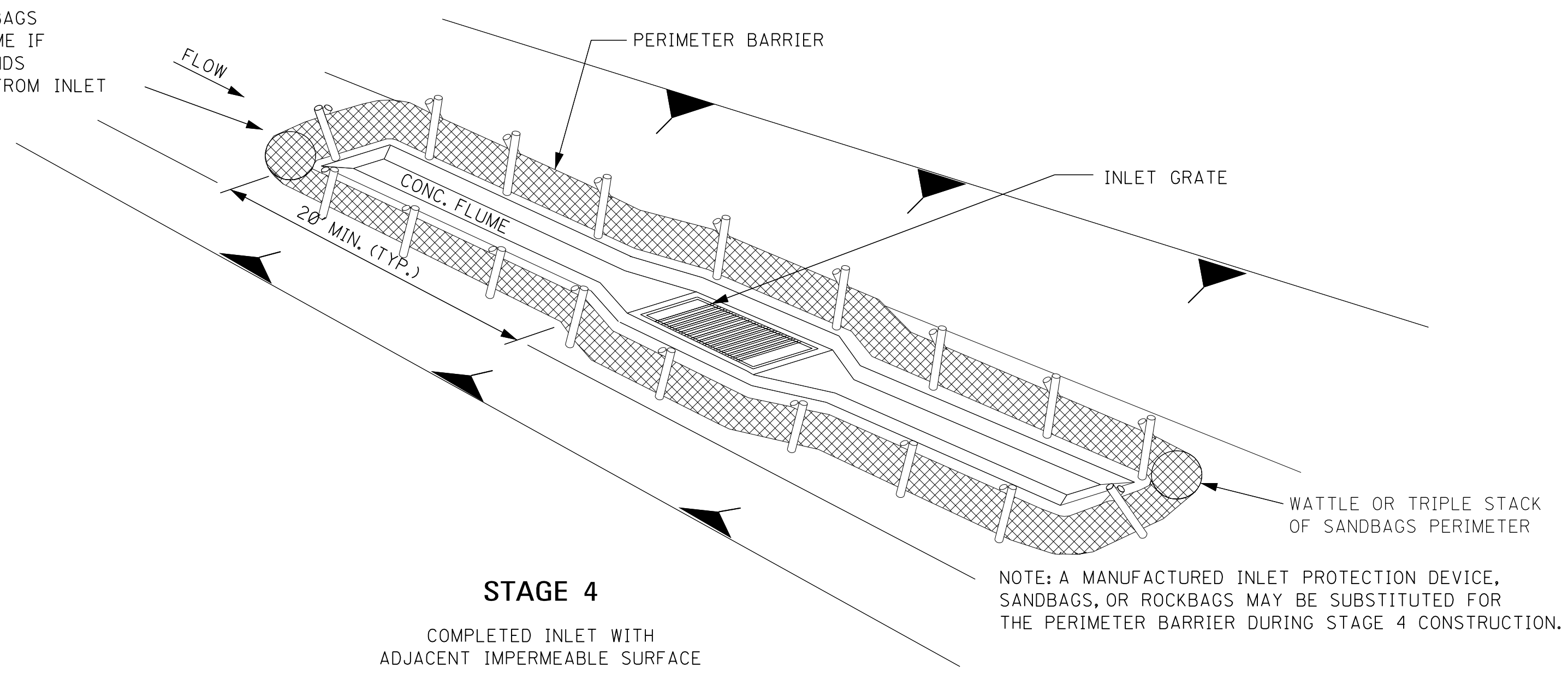
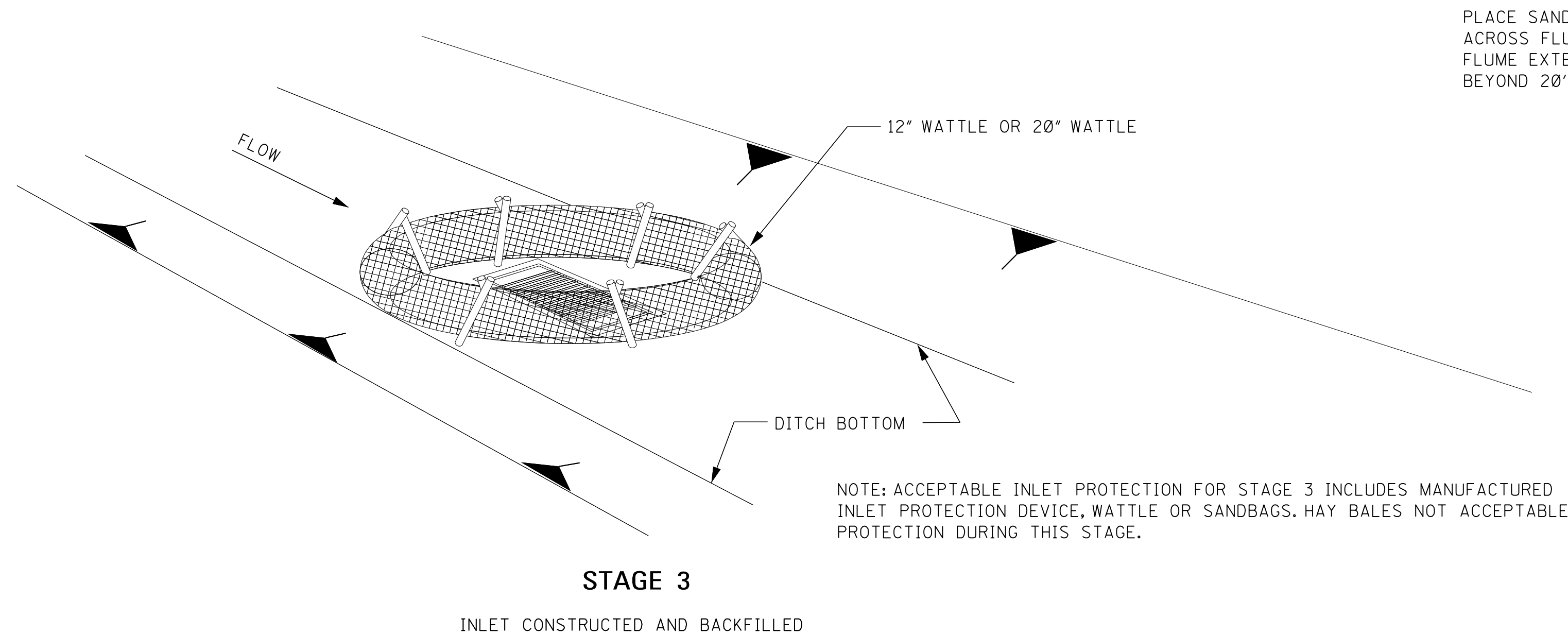
NOTES:

- ROCK DITCH CHECKS WITH SUMP EXCAVATION CAN BE PLACED IN DITCHES TO ASSURE ON-SITE SEDIMENT TRAPPING REQUIREMENTS ARE MET. DITCH CHECK WITH SUMP EXCAVATION IS USED WHEN DITCHES RECEIVE DRAINAGE FROM CUT OR FILL SLOPES OR OTHER CRITICAL AREAS WHERE SOIL EROSION IS EXPECTED. DRAINAGE AREA FOR A TEMPORARY SEDIMENT TRAP SHOULD BE LIMITED TO 3 ACRES. THEY CAN BE USED IN SERIES TO INCREASE ON-SITE SEDIMENT TRAPPING EFFICIENCY.
- THE COST OF THE FABRIC SHALL BE INCLUDED IN OTHER ITEMS BID.

				BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN
				REVISION	ROCK DITCH CHECK WITH SUMP EXCAVATION AND ROCK FILTER DAM
				DATE	ISSUE DATE: AUGUST 01, 2017
					 WORKING NUMBER ECD-10 SHEET NUMBER 6110



NOTE: ACCEPTABLE INLET PROTECTION DEVICES FOR STAGE 2 INCLUDE WATTLE, SILT FENCE OR SANDBAGS. HAY BALE PROTECTION NOT ACCEPTABLE DURING THIS PHASE.



NOTE: A MANUFACTURED INLET PROTECTION DEVICE, SANDBAGS, OR ROCKBAGS MAY BE SUBSTITUTED FOR THE PERIMETER BARRIER DURING STAGE 4 CONSTRUCTION.

DITCH INLET CONSTRUCTION STAGES

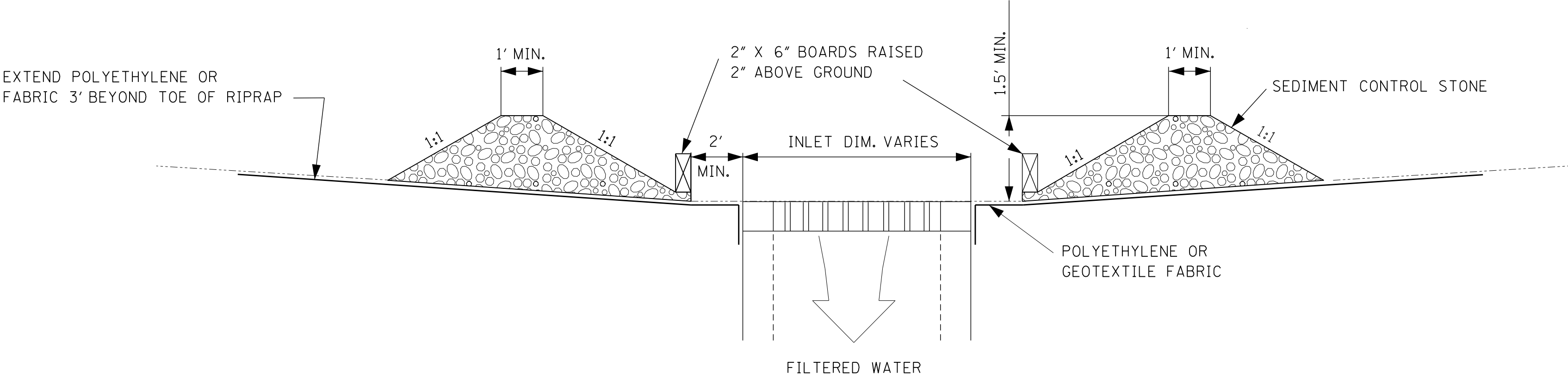
NOTES:

1. DRAINAGE STRUCTURE BACKFILL SHOULD BE PLACED IN STAGE 1 IMMEDIATELY AFTER PIPE INSTALLATION. INLET CONSTRUCTION SHOULD COMMENCE AS SOON AS POSSIBLE AND BE CONTINUOUS THROUGH COMPLETION.
2. CONFIGURATIONS MAY BE ADJUSTED WITH APPROVAL OF THE ENGINEER FOR TRAVELWAY SAFETY, WATER FLOW, OR SOIL AND INSTALLATION CHALLENGES.
3. DURING STAGE 1 AND STAGE 2, SILT FENCE MAY BE REQUIRED UPSLOPE OF THE INLET EXCAVATION AS DIRECTED BY THE ENGINEER.
4. IF SILT FENCE IS INSTALLED AROUND THE INLET INSTALLATION IT SHOULD BE IN A CONFIGURATION THAT WILL ALLOW INLET CONSTRUCTION.
5. FOR INLET PROTECTION TO BE USED IN STAGES 1 AND 2 OF CONSTRUCTION, SEE WK. NO. ECD-12.

				BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
				REVISION		
				DATE	ISSUE DATE: AUGUST 01, 2017	

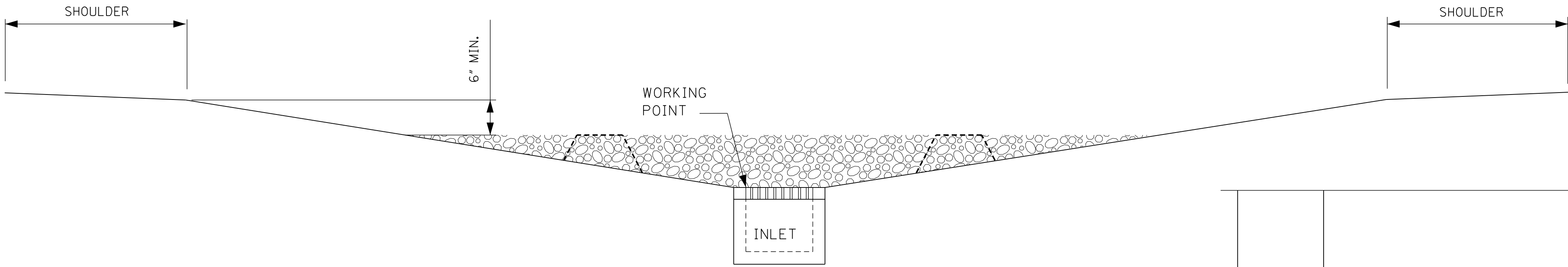
**TYPICAL APPLICATIONS
AND DETAILS FOR
INLET CONSTRUCTION**


WORKING NUMBER
ECD-11
SHEET NUMBER
6111

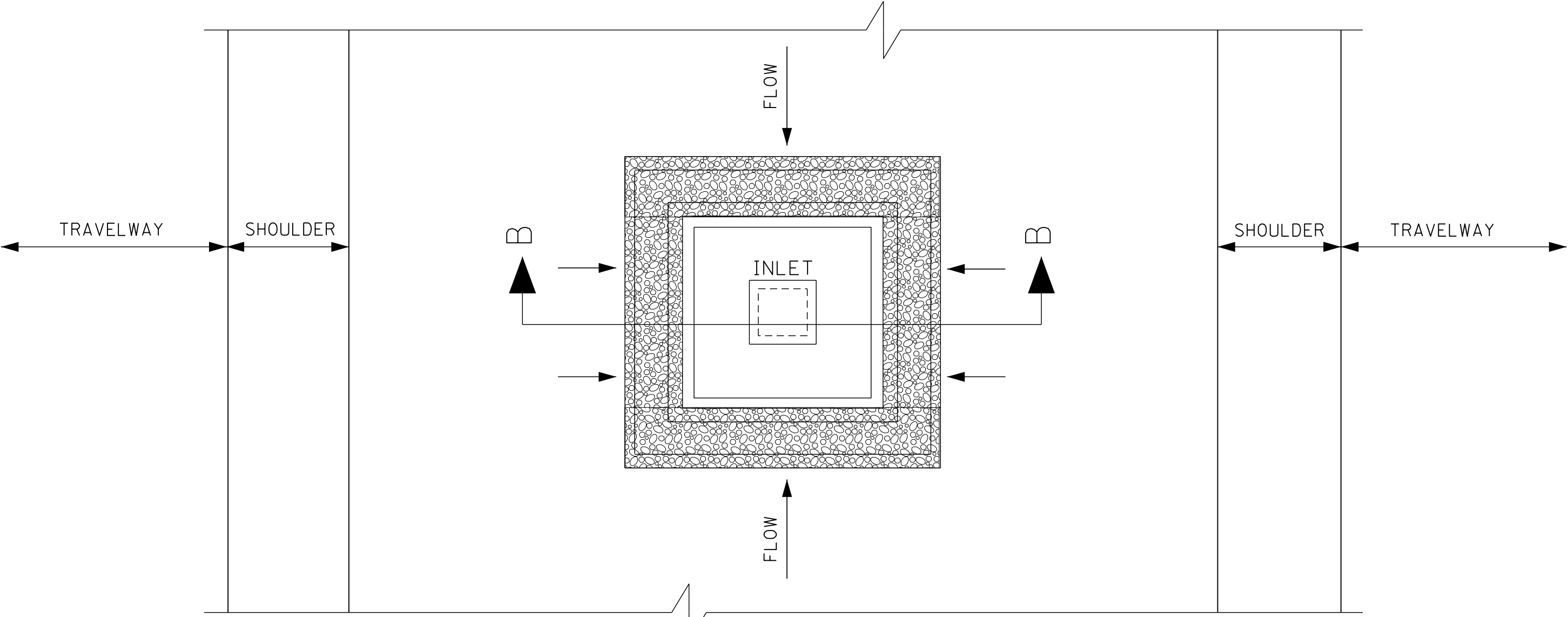


SECTION B-B

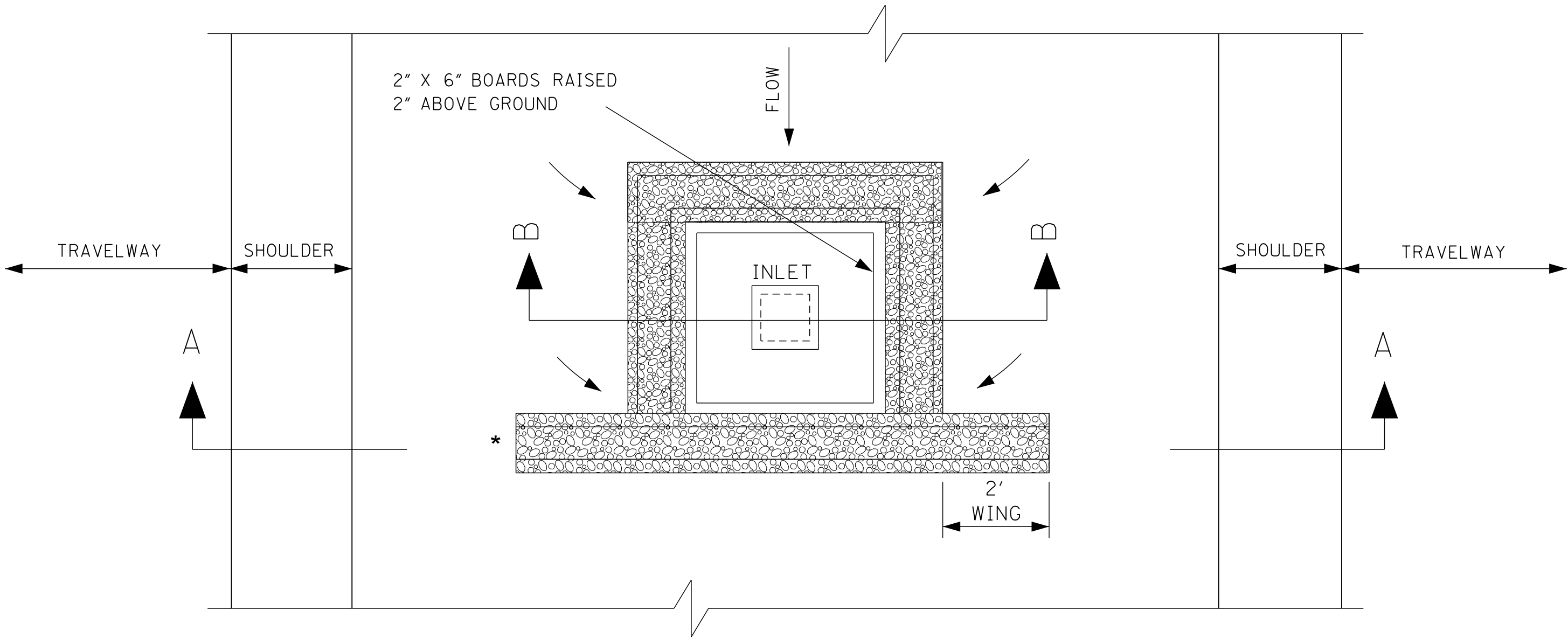
- NOTES:
1. THE ELEVATION OF THE TOP OF THE REQUIRED SEDIMENT CONTROL STONE BERM SHOULD BE 1.5' ABOVE THE ELEVATION OF THE INLET WORKING POINT AND SHALL BE A MINIMUM OF 6" BELOW THE ELEVATION OF THE OUTSIDE EDGE OF THE INSIDE SHOULDER.
 2. THIS SEDIMENT CONTROL STONE INLET PROTECTION SHALL BE UTILIZED DURING STAGE 1 AND STAGE 2 INLET CONSTRUCTION. SEE WK. NO. ECD-11.
 3. 2" X 6" BOARDS MAY BE REPLACED WITH WIRE MESH WITH OPENINGS LESS THAN 1" X 1". COST OF WHICH SHALL BE INCLUDED IN OTHER ITEMS BID.
 4. THE COST OF POLYETHYLENE AND/OR FABRIC SHALL BE INCLUDED IN OTHER ITEMS BID.



SECTION A-A



PLAN - IN SAG

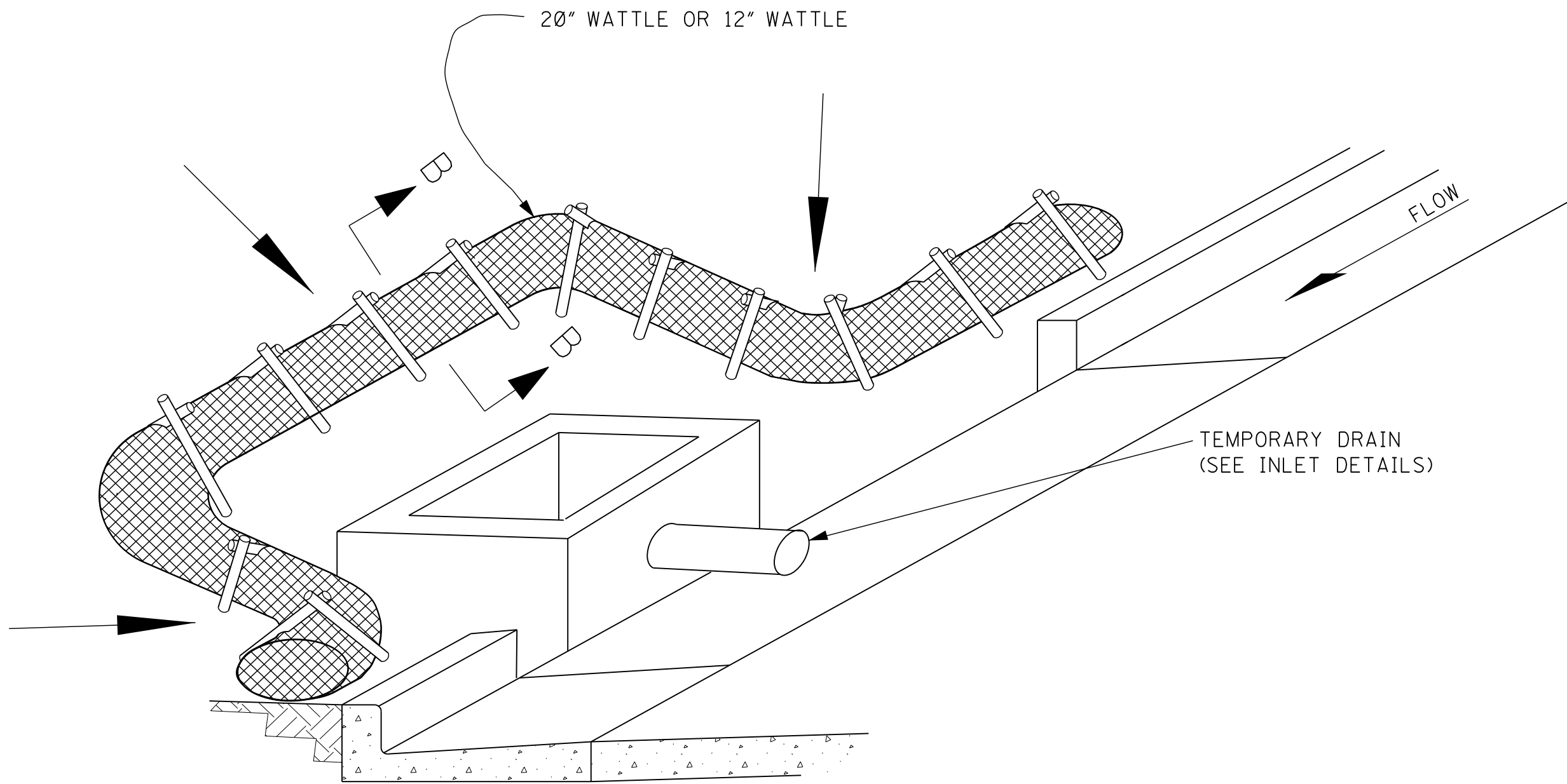


PLAN - ON GRADE

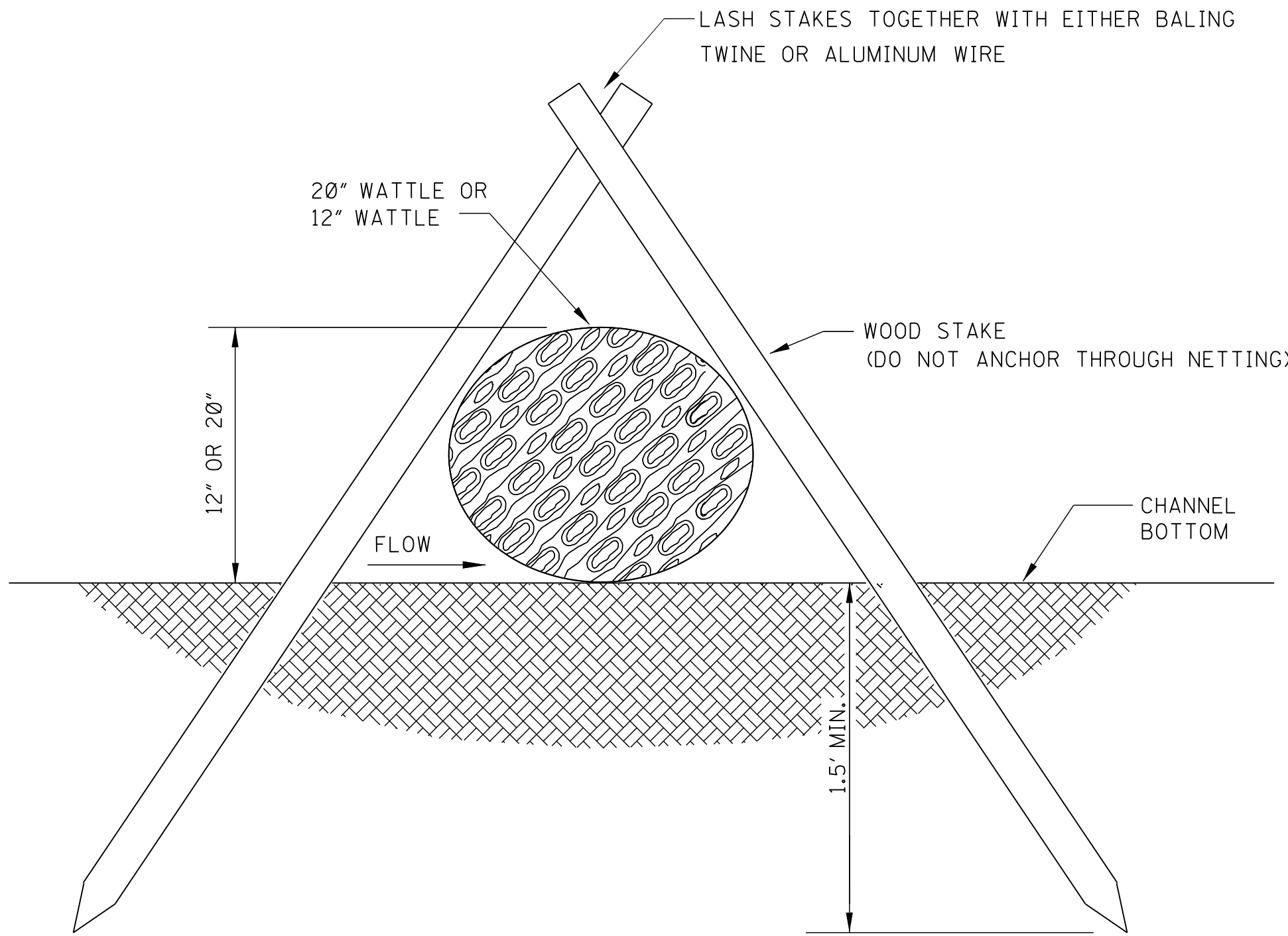
* CONSTRUCT WINGS TO PREVENT BYPASS

				BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN
				REVISION	INLET PROTECTION DETAILS FOR SEDIMENT CONTROL STONE ON GRADES AND SAGS
				DATE	ISSUE DATE: AUGUST 01, 2017
					 WORKING NUMBER ECD-12 SHEET NUMBER 6112

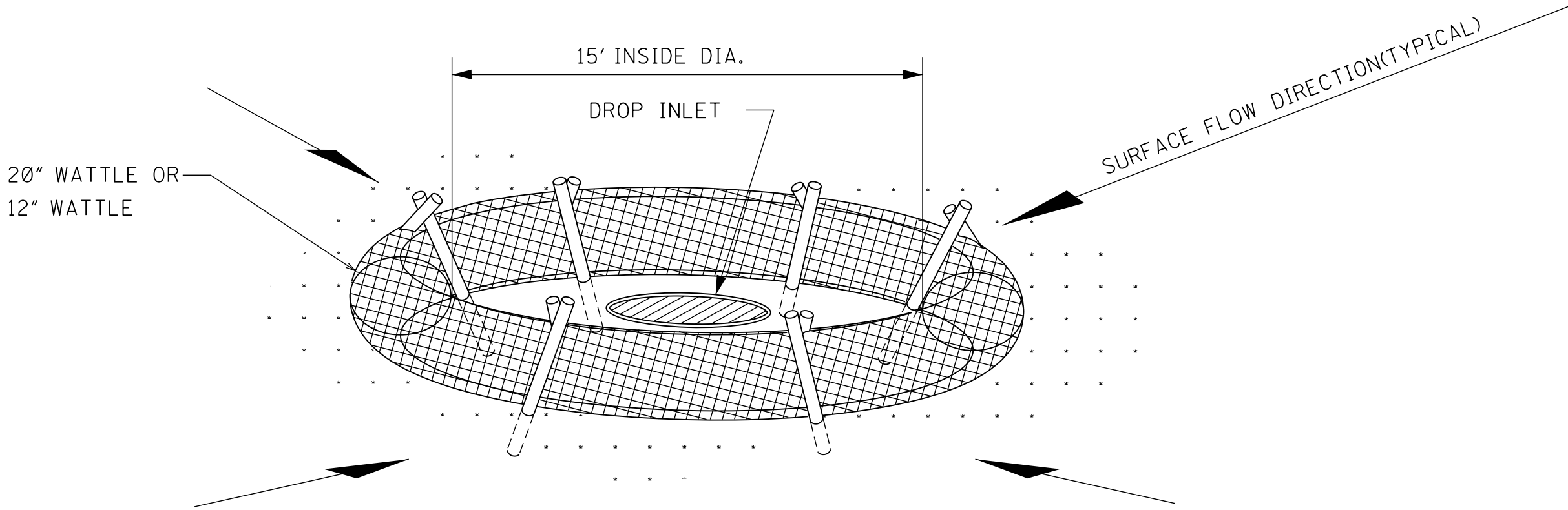
NOTE: SILT FENCE OR SANDBAGS MAY ALSO BE USED FOR THIS APPLICATION.
HAY BALES NOT ACCEPTABLE DURING THIS STAGE.



CURB INLET PROTECTION (STAGE 2)
SINGLE OR DOUBLE WING INLET



SECTION B-B



DROP INLET PROTECTION

NOTES:

- ANCHORING STAKES SHALL BE SIZED, SPACED, AND BE OF A MATERIAL THAT EFFECTIVELY SECURES THE WATTLE. STAKE SPACING SHALL BE A MAXIMUM OF THREE FEET.
- OVERLAP ENDS OF WATTLES PER MANUFACTURER'S RECOMMENDATIONS (1' MIN., 3' MAX.)
- TRENCHING OF WATTLES MAY BE NECESSARY IF PIPING BECOMES EVIDENT.
- IN THE EVENT WATTLES CANNOT BE SECURED IN PLACE USING WOOD STAKES, SANDBAGS MAY BE USED IN LIEU OF WOOD STAKES IN ORDER TO SECURE WATTLES IN PLACE. COST OF SANDBAGS USED IN THIS APPLICATION SHALL BE INCLUDED IN OTHER ITEMS BID.

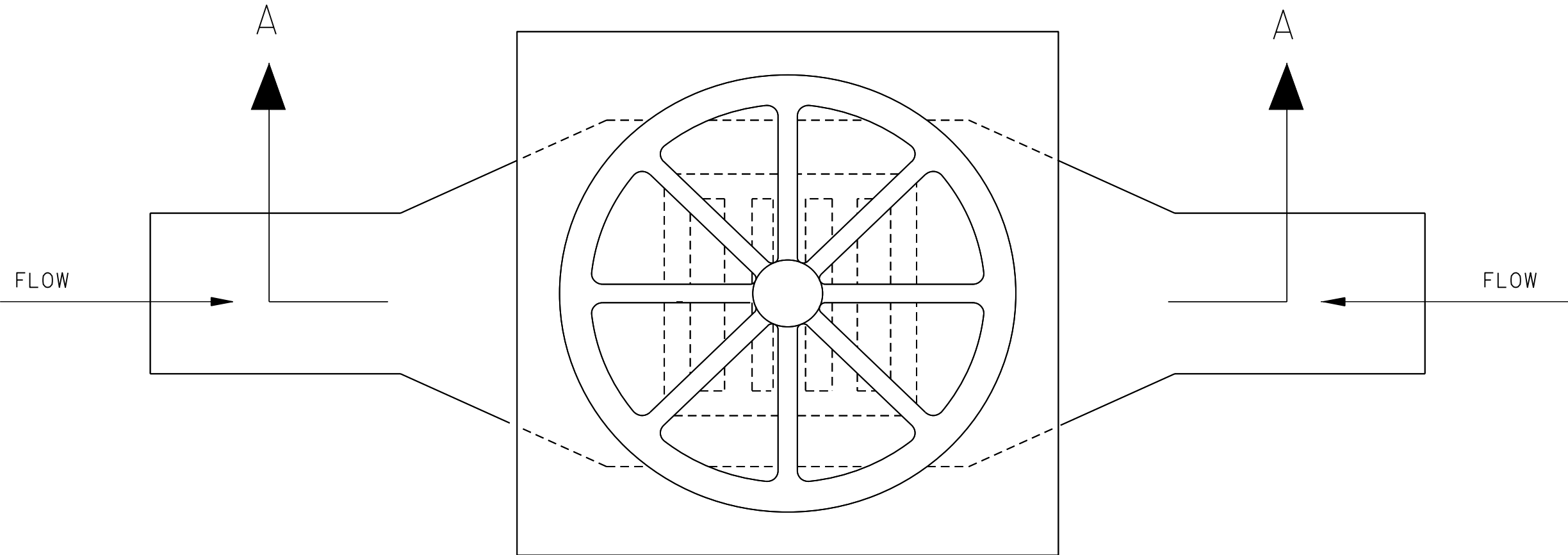
				BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN
				REVISION	
				DATE	ISSUE DATE: AUGUST 01, 2017

**INLET PROTECTION
DETAILS OF WATTLES**



WORKING NUMBER
ECD-13

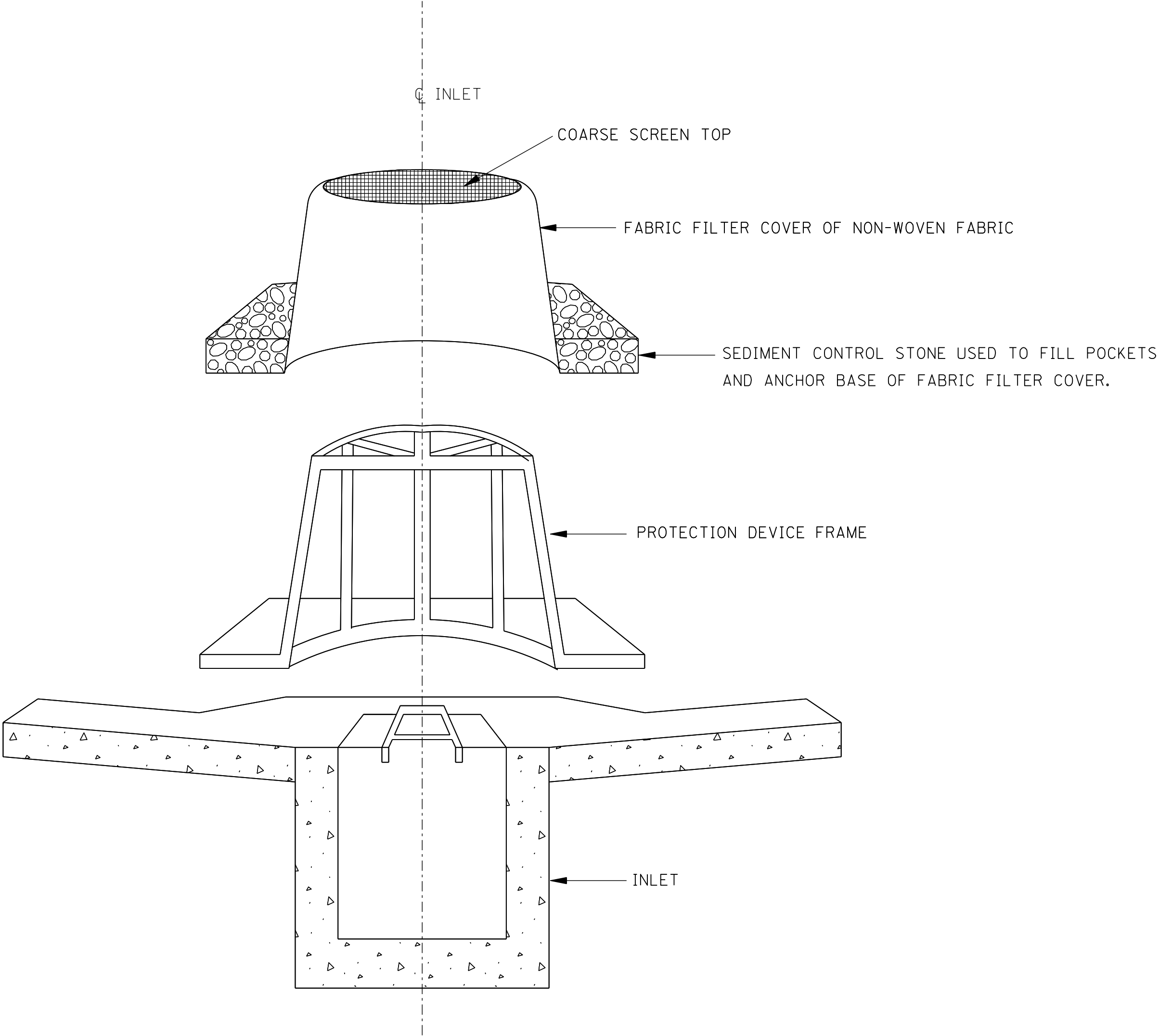
SHEET NUMBER
6113



PLAN

NOTES:

1. FRAMES WITH EITHER SQUARE OR CIRCULAR BASES MAY BE USED. SELECTED FRAME BASE SHOULD PROVIDE BEST SEAL AROUND THE INLET AS DIRECTED BY THE ENGINEER.
2. FILL POCKETS AROUND BASE OF FILTER COVER WITH SEDIMENT CONTROL STONE. THE COST OF SEDIMENT CONTROL STONE USED IN THIS APPLICATION SHALL BE INCLUDED IN OTHER ITEMS BID.
3. USE ONLY DURING STAGE 3 OR STAGE 4 INLET CONSTRUCTION. SEE WK. NO. ECD-11.
4. FOR MEDIAN INLET PROTECTION, THE ELEVATION OF THE COARSE SCREEN TOP SHALL BE A MINIMUM OF 6" BELOW THE ELEVATION OF THE OUTSIDE EDGE OF THE INSIDE SHOULDER.



SECTION "A-A"

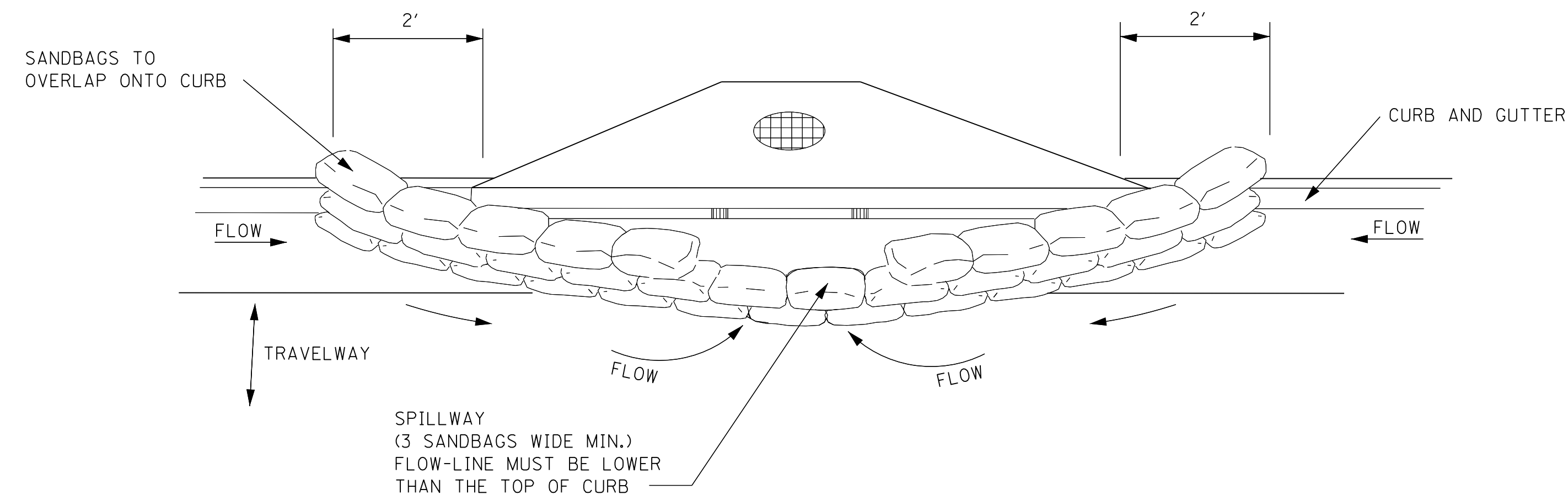
				BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN
				REVISION	
				DATE	
				ISSUE DATE:	AUGUST 01, 2017



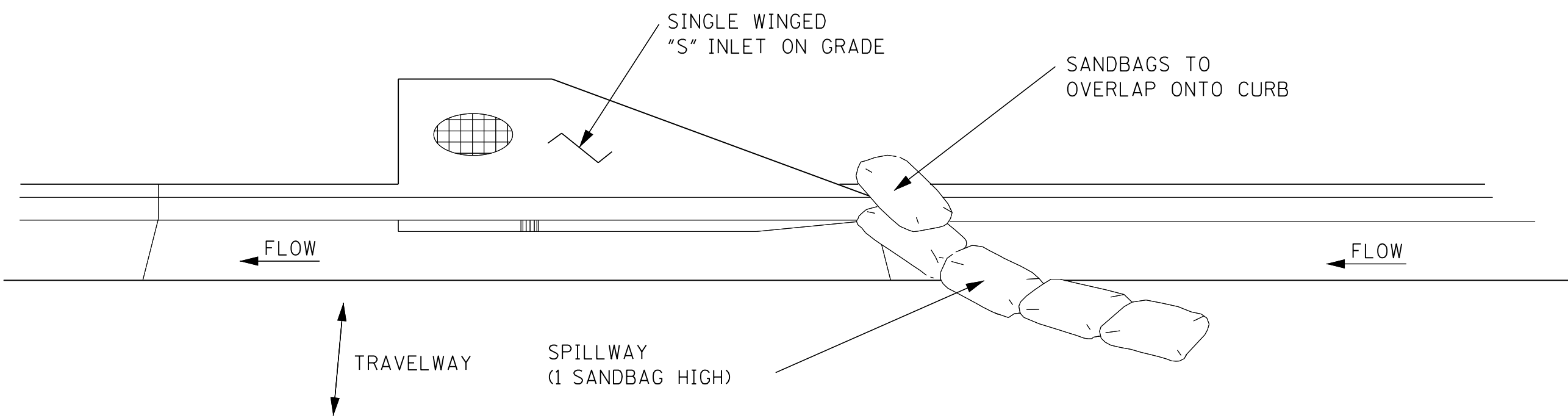
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

WORKING NUMBER
ECD-14

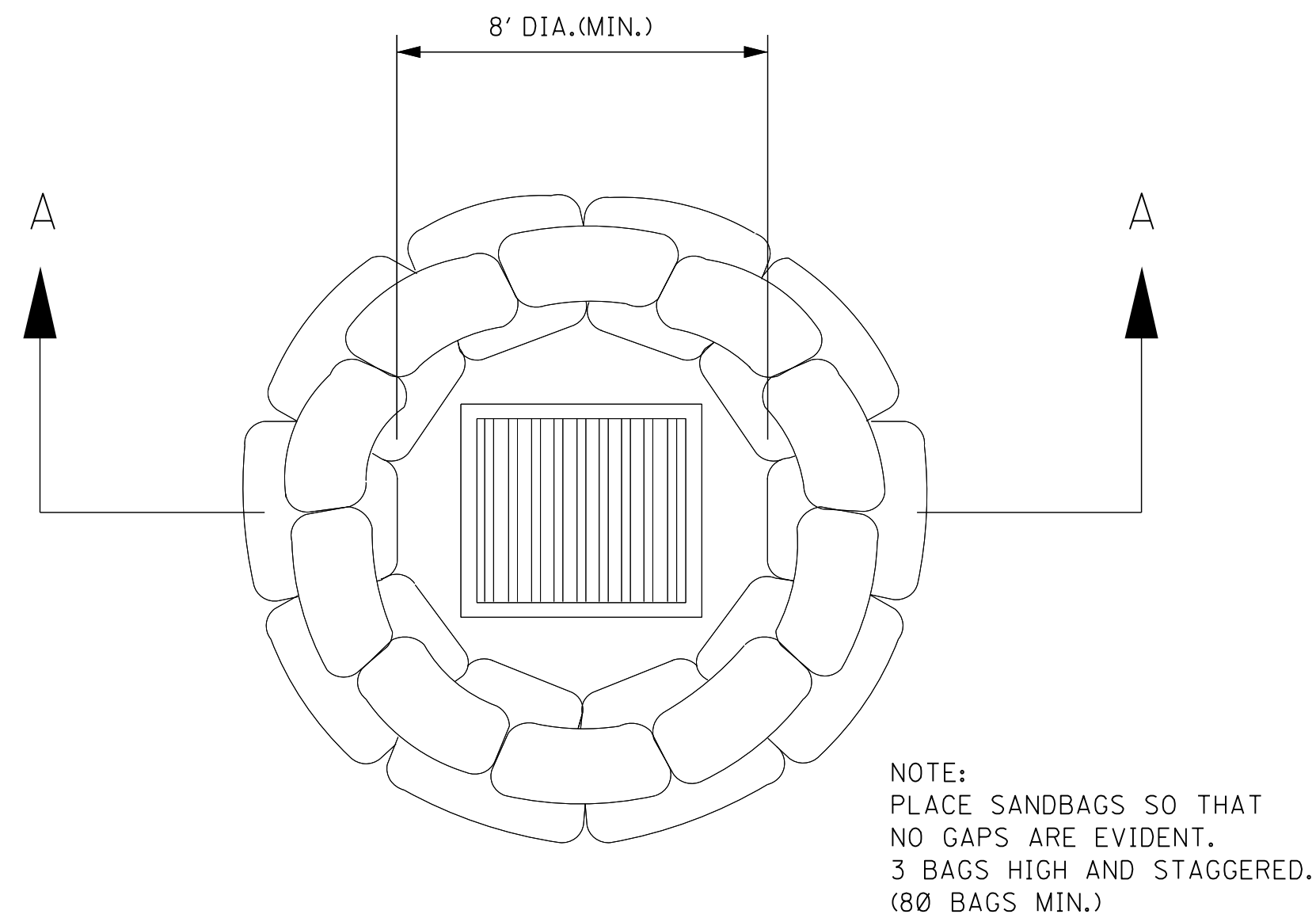
SHEET NUMBER
6114



TYPICAL (SANDBAG) PROTECTION FOR INLET IN SAG

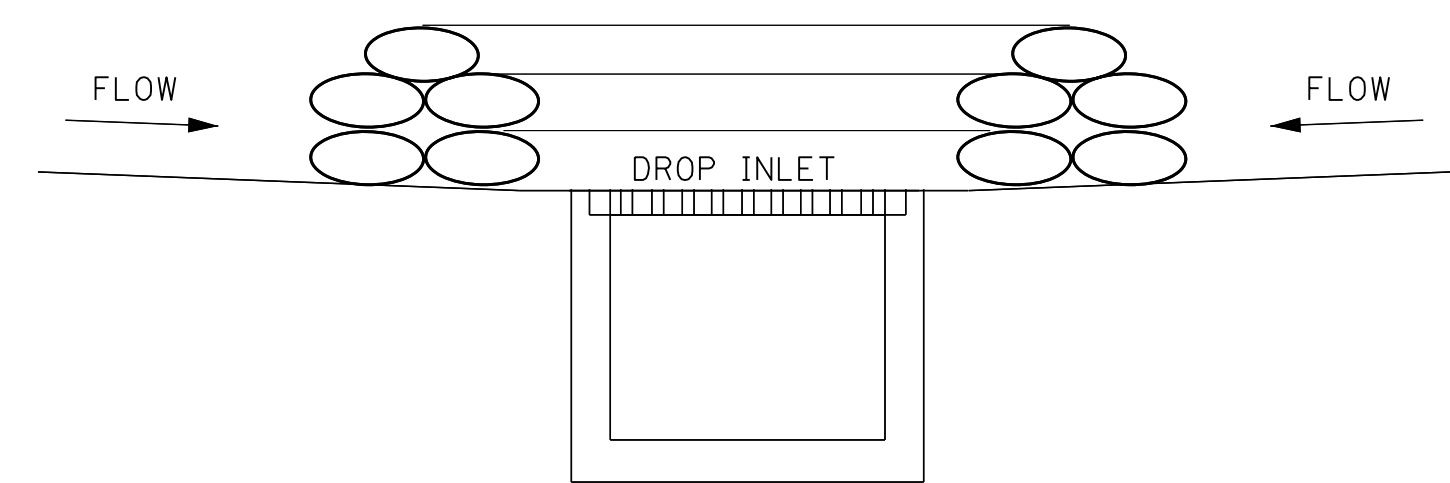


TYPICAL (SANDBAG) PROTECTION FOR INLET ON GRADE



DROP INLET

PLAN VIEW

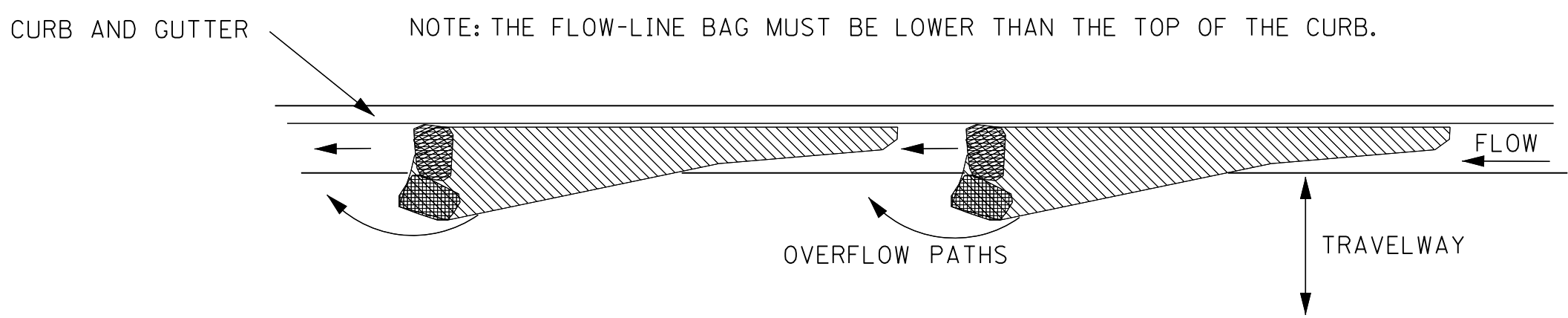


SECTION A-A

SANDBAG BARRIER

CURB INLET PROTECTION NOTES:

1. THIS CURB INLET PROTECTION METHOD CAN BE USED DURING ANY STAGE OF BASE AND PAVEMENT CONSTRUCTION.
2. BAG HEIGHT AND NUMBER OF BAGS SHOULD BE BASED ON CURB HEIGHT AND USE OF TRAVELWAY.
3. SEDIMENT SHOULD BE CONTROLLED PRIOR TO ENTERING GUTTER. GUTTER CHECKS AND INLET PROTECTION ARE FOR SECONDARY CONTROL.
4. REMOVE ACCUMULATED SEDIMENT AFTER EVERY RAINFALL. SWEEP SEDIMENT FROM HARD SURFACES AND DISPOSE OF APPROPRIATELY AWAY FROM INLETS AND/OR WATER BODIES.
5. IF DENUDEED AREAS EXIST BEHIND THE INLET, A SEDIMENT BARRIER SHOULD BE INSTALLED AROUND ITS PERIMETER TO CONTOL SEDIMENT.



CURB AND GUTTER SEDIMENT
CONTAINMENT SYSTEM

				BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN
				REVISION	
				DATE	ISSUE DATE: AUGUST 01, 2017

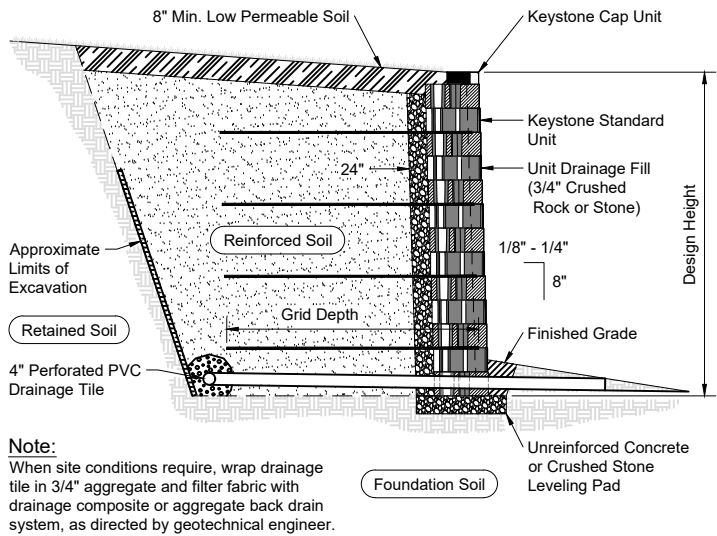
**INLET PROTECTION
DETAILS OF SANDBAGS**



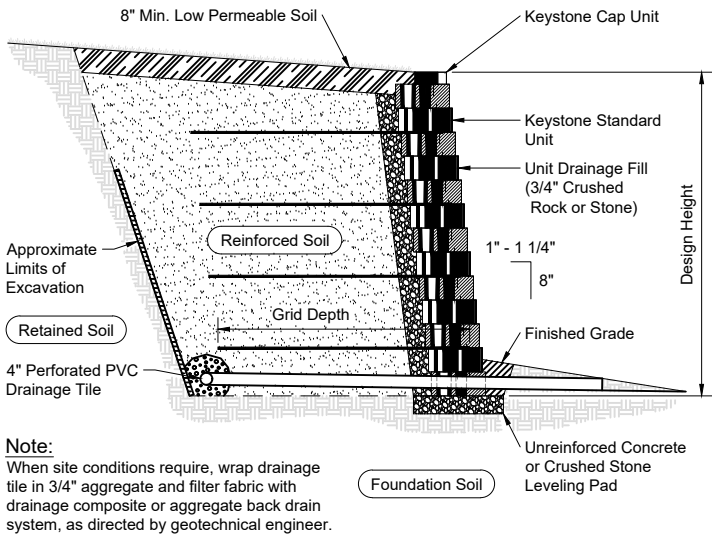
WORKING NUMBER
ECD-15
SHEET NUMBER
6115

CHECKED BY: DEW
DRAWN BY: DBG
DESIGNED BY: DBG
COUNTY: FORREST
Jul 09, 2020 - 10:41pm
MD-1
FILE NAME: D:\Civil 3D - 178-11.dwg 178-11 Details.dwg
DESIGN TEAM: THE WALKER ASSOCIATES, PLLC

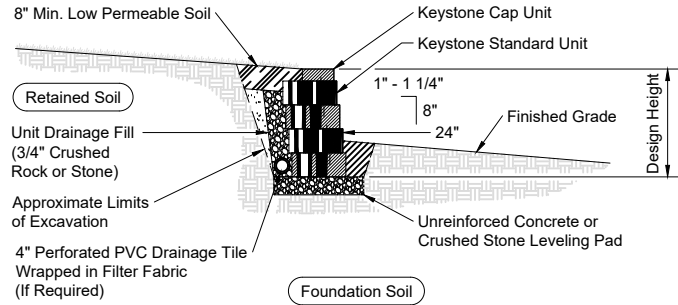
COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD-0018(35)BO



Typical Reinforced Wall Section
Standard Unit - Near Vertical Setback



Typical Reinforced Wall Section
Standard Unit - 1" Setback

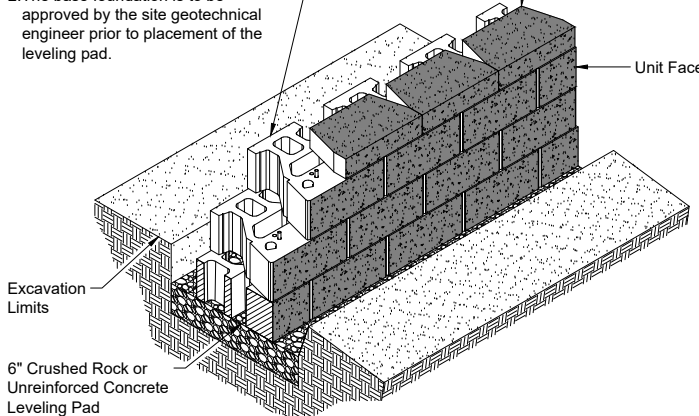


Typical Gravity Wall Section
Standard Unit - 1" Setback

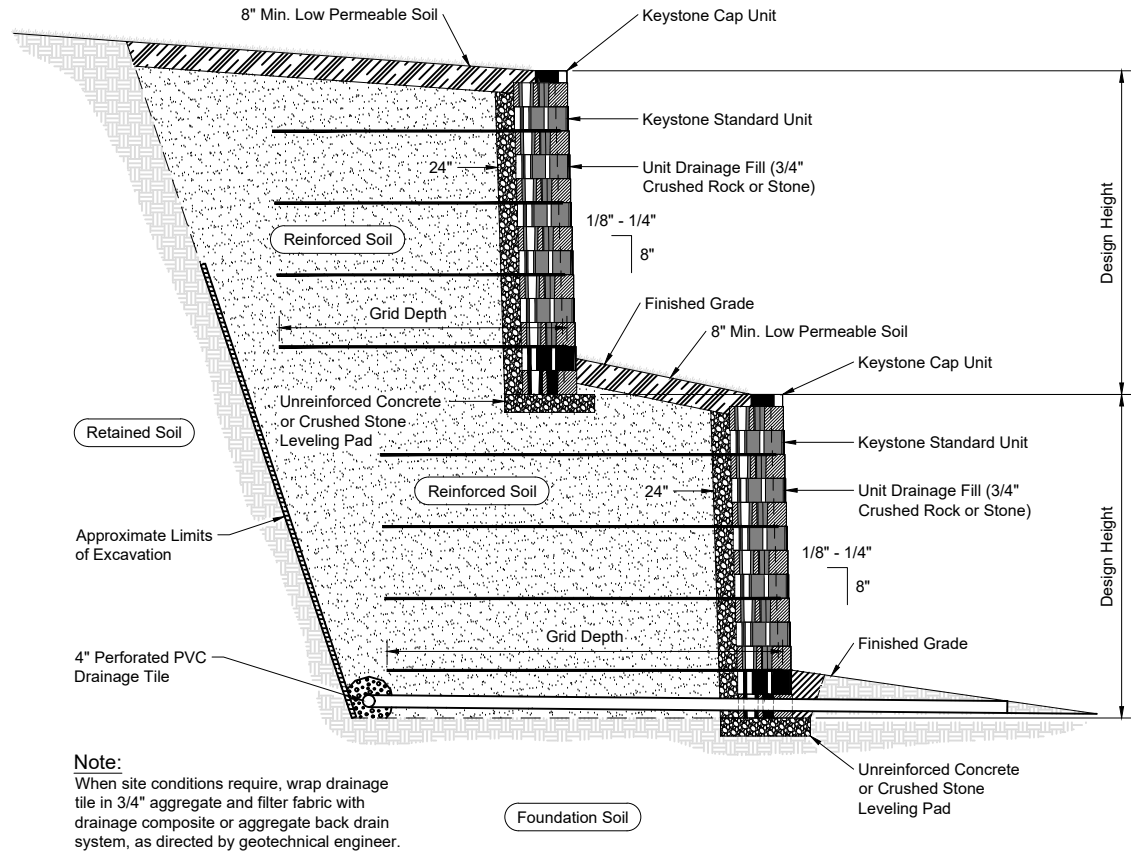
Base Leveling Pad Notes:

- The leveling pad is to be constructed of crushed stone or 2,000 psi± unreinforced concrete.
- The base foundation is to be approved by the site geotechnical engineer prior to placement of the leveling pad.

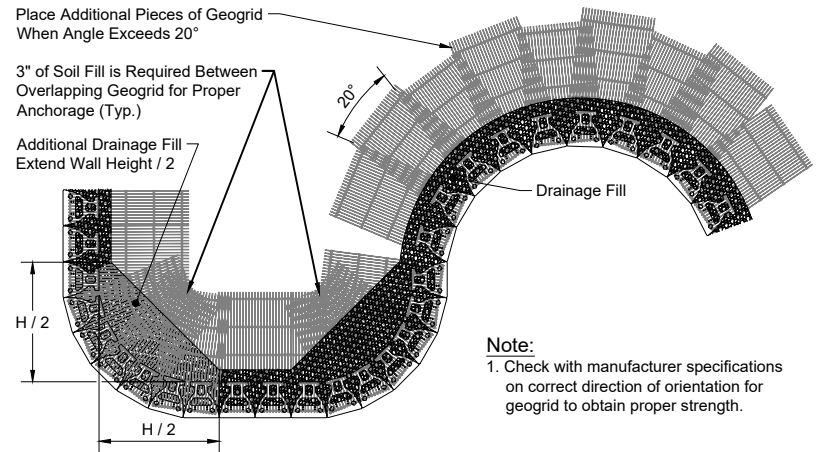
Standard Unit	Cap Unit
Width: 18"	Width: 18"
*Depth: 18"	*Depth: 10 1/2"
Height: 8"	Height: 4"
*Weight: 108 lbs	*Weight: 50 lbs



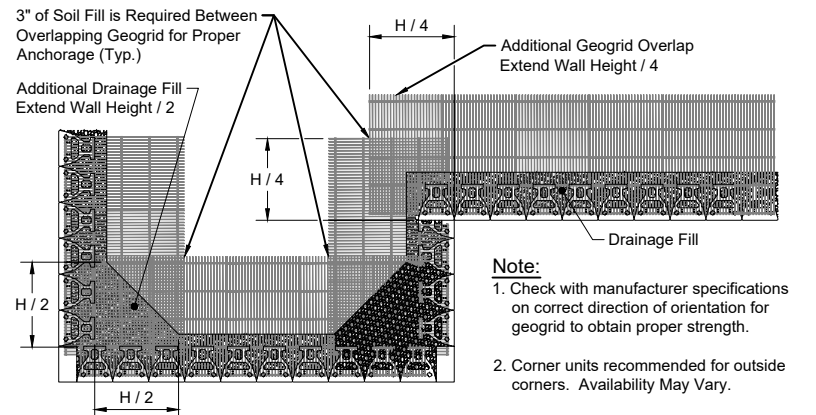
Standard Unit/Base Pad Isometric Section View
*Dimensions & Weight May Vary by Region



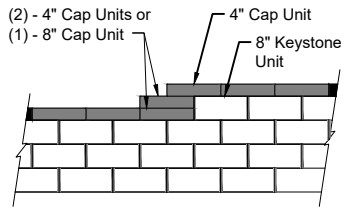
Typical Reinforced Tiered Wall Section
Standard Unit - Near Vertical Setback



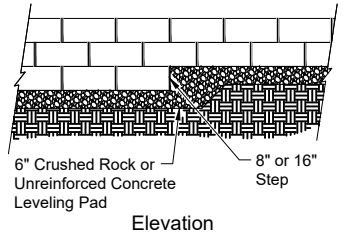
Geogrid Installation on Curves



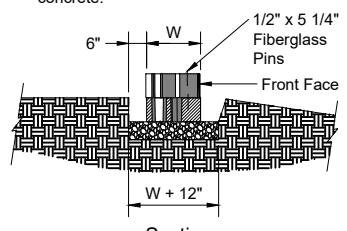
Geogrid Installation at Corners



Top of Wall Steps

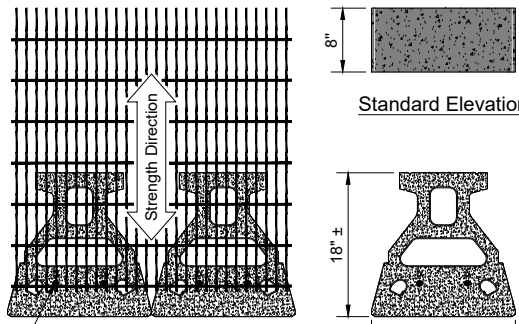


Elevation

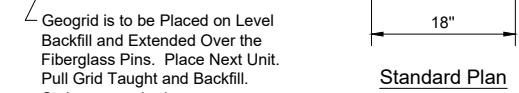


Section

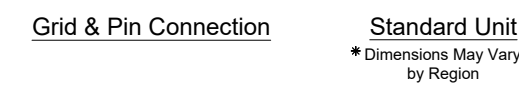
Leveling Pad Detail



Standard Elevation

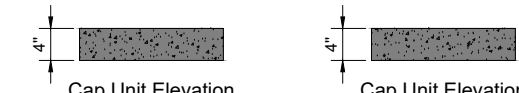


Standard Plan



Grid & Pin Connection

Standard Unit
*Dimensions May Vary by Region



Cap Unit Elevation

Cap Unit Elevation



Cap Unit Plan

Cap Unit Plan



Universal Cap Unit Option
*Dimensions & Availability Will Vary by Region

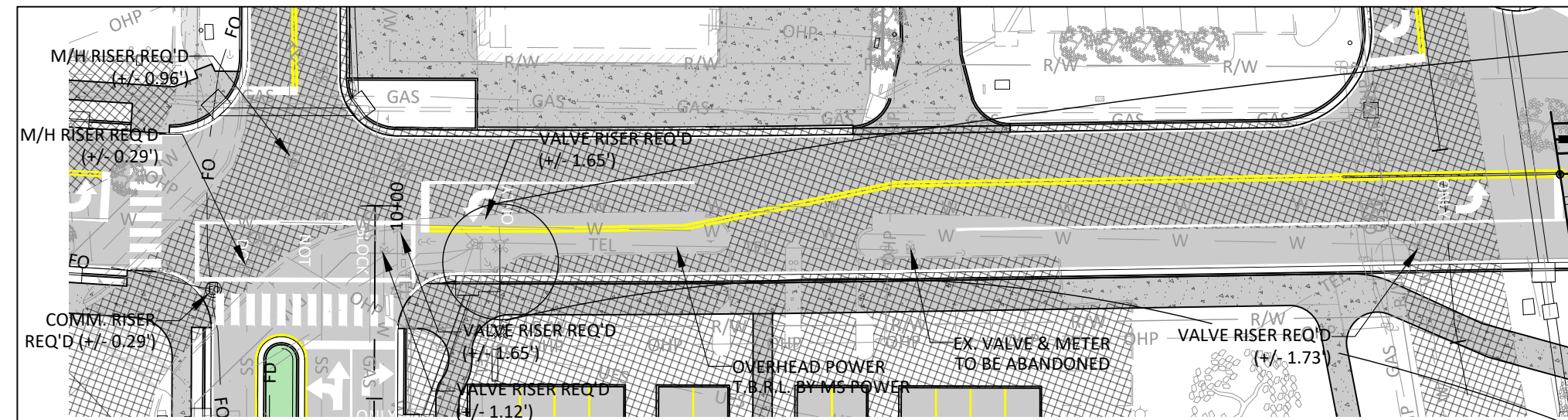
Straight Split Cap Unit Option
*Dimensions & Availability Will Vary by Region

Design is for internal stability of the KEYSTONE wall structure only. External stability, including but not limited to foundation and slope stability is the responsibility of the Owner. The design is based on the assumption that the materials within the retained mass, methods of construction, and quality of materials conform to KEYSTONE's specification for this project.

This drawing is being furnished for this specific project only. Any party accepting this document does so in confidence and agrees that it shall not be duplicated in whole or in part, nor disclosed to others without the consent of

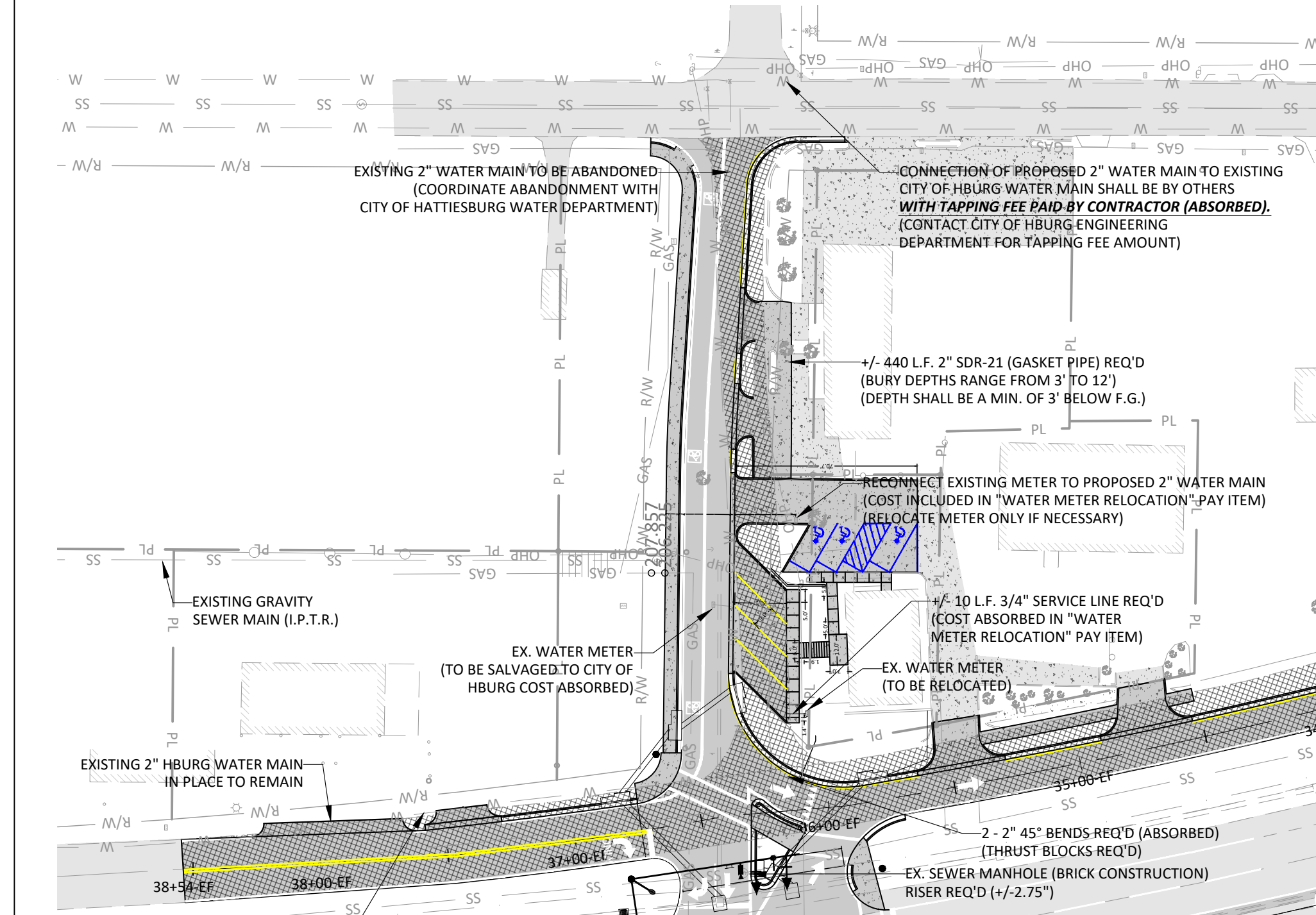
MISCELLANEOUS DETAILS			
RETAINING WALL AT EAST FRONTAGE ROAD & CAMP STREET			
ENGINEER: THE WALKER ASSOCIATES, PLLC			WORKING NUMBER MD-1
FILENAME: 178-11 Details.dwg			SHEET NUMBER 15.0
CHECKED BY: DBG DATE: Jul 09, 2020			

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD-0018(35)BO



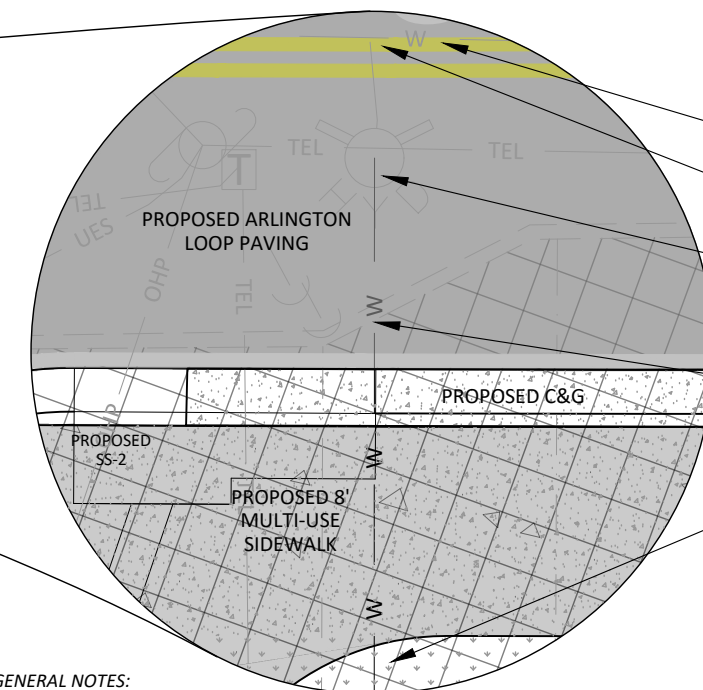
ARLINGTON LOOP MODIFICATIONS

SCALE: 1" = 40'



CAMP STREET MODIFICATIONS

SCALE: 1" = 40'



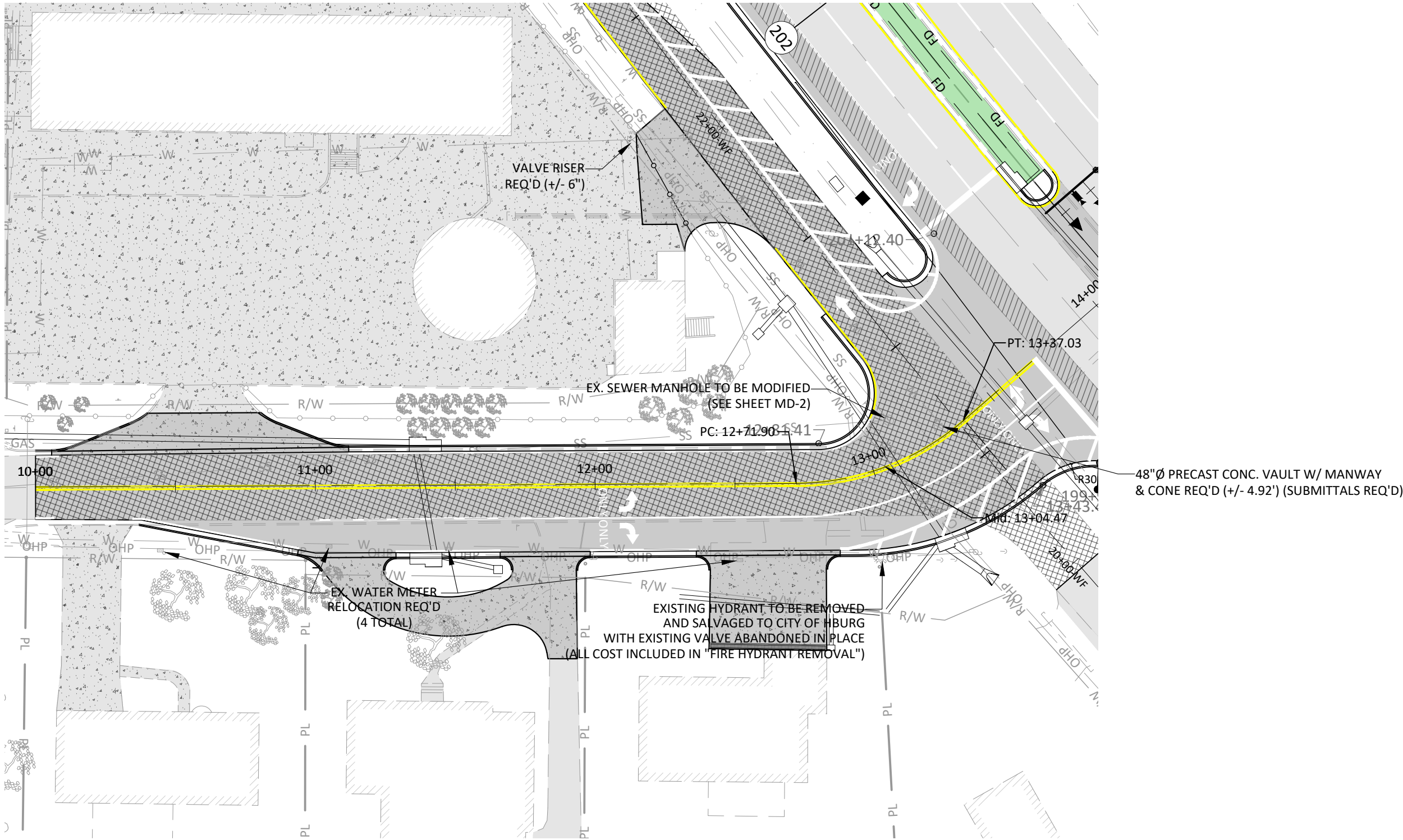
- EX. 6" CITY OF HBURG WATER MAIN (I.P.T.R.)
- CONNECT PROPOSED 6" D.I. PIPE TO EX. 6" HYDRANT LINE
- EXISTING HYDRANT TO BE SALVAGED TO CITY OF HBURG (HBURG #G36)
- +/- 18 L.F. (HORIZONTAL LENGTH) 6" D.I. PIPE REQ'D
- 2 - 45° BENDS REQ'D (VERTICAL)
(EG TO FG ELEVATION CHANGE +/-2.5')
- FIRE HYDRANT ASSEMBLY REQ'D

GENERAL NOTES:

1. CONTRACTOR SHALL VERIFY ALL UTILITY LINE LOCATIONS PRIOR TO CONSTRUCTION. ANY DEVIATION FROM DESIGN LOCATION SHALL BE AUTHORIZED BY THE OWNER OR ENGINEER PRIOR TO CONSTRUCTION.
2. CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION. SHOULD ANY SPECIAL EQUIPMENT BE REQUIRED TO PERFORM WORK OVER AND AROUND UTILITIES, CONTRACTOR SHALL PROVIDE SUCH EQUIPMENT AT NO EXTRA COST TO THE OWNER.
3. CONTRACTOR SHALL REFER TO ENGINEER'S PLANS AND SPECIFICATIONS FOR CONSTRUCTION OF THIS PROJECT. CONTRACTOR SHALL COORDINATE UTILITY INSTALLATION IN SUCH A MANNER AS TO AVOID CONFLICTS AND TO ASSURE PROPER DEPTHS ARE ACHIEVED AS WELL AS COORDINATION WITH THE REGULATORY AGENCY AS TO LOCATION AND SCHEDULING OF TIE-INS TO THEIR FACILITIES.
4. CONTRACTOR SHALL COORDINATE WITH THE ENGINEER RELATIVE TO PLACEMENT OF THE WATER MAINS AND APPURTENANCES. NO EQUIPMENT OR MATERIALS SHALL BE STORED ON PRIVATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE PROPERTY OWNER.
5. CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS/HER PLAN OF OPERATION IN THE AREA OF THE UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION OF EXISTING UTILITIES PRIOR TO ANY DIGGING. NOTIFICATION SHALL BE GIVEN AT LEAST 3 DAYS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL UTILIZE THE MISSISSIPPI 811 SYSTEM FOR ALL UTILITY LOCATING.
6. WATER MAINS SHALL BE TYPE I, GRADE I, PVC IN ACCORDANCE WITH ASTM SPECIFICATIONS D-1784 AND BE SUITABLE FOR USE AT A HYDROSTATIC PRESSURE OF 200 PSI OR GREATER AND SHALL MEET REQUIREMENTS OF **AWWA C-900 (DR 14)** PVC PRESSURE PIPE. (EXCEPT WHEN SPECIFIED AS DUCTILE IRON).
7. ALL FITTINGS 3" AND LARGER SHALL BE DUCTILE IRON MECHANICAL JOINT AND SHALL CONFORM TO THE AWWA STANDARDS LATEST EDITION.
8. ALL DRESSER COUPLINGS SHALL BE STEEL OR DUCTILE IRON AND SHALL CONFORM TO THE AWWA STANDARDS LATEST EDITION. NO "KNOCK ON", DRESSER COUPLINGS, OR PVC DRESSER COUPLINGS WILL BE ALLOWED.
9. IT IS A SPECIFIC REQUIREMENT OF THIS PROJECT THAT THE PRIME CONTRACTOR'S JOB SUPERINTENDENT BE ON THE JOB SITE AT ALL TIMES WHILE WORK IS BEING CONDUCTED.
10. CONTRACTOR SHALL RESTORE ALL AREAS DAMAGED OR DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION. IN ADDITION, ALL AREAS OF THE JOB SITE SHALL BE MAINTAINED IN A NEAT AND ORDERLY FASHION.
11. THE MINIMUM COVER ON WATER MAINS SHALL BE 36 INCHES. BACKFILLING AND COMPACTION SHALL BE ACHIEVED AS PER SPECIFICATIONS ON ALL UTILITY TRENCHES.
12. NUMBER 12 COPPER TRACER WIRE SHALL BE INSTALLED ON ALL PVC PIPE TO ASSIST IN FUTURE LOCATION OF THE WATER MAIN. COST OF THIS TRACER WIRE SHALL BE ABSORBED.
13. THE CONTRACTOR SHALL NOT LEAVE ANY OPEN TRENCHES OVER NIGHT. ALL TRENCHES SHALL BE FILLED BY THE END OF THE DAY.
14. CONNECTION AS SHOWN IS BASED ON LIMITED FIELD DATA. CONTRACTOR SHALL INCLUDE ALL FITTINGS, ADAPTERS, ETC. NECESSARY TO RELOCATE THE EXISTING HYDRANT TO THE LOCATION SHOWN AND AT THE FINISH GRADE (ELEVATION CHANGE OF APPROXIMATELY 2.5'). ALL ITEMS NECESSARY FOR HYDRANT RELOCATION SHALL BE INCLUDED IN PAY ITEM "HYDRANT RELOCATION".
15. CONTRACTOR SHALL NOTIFY THE CITY OF HATTIESBURG WATER DEPARTMENT (601-545-4530) PRIOR TO PERFORMING ANY UTILITY WORK. A TEMPORARY OUTAGE WILL BE NECESSARY FOR INSTALLATION OF THE NEW HYDRANT. ALL OUTAGES SHALL BE PERFORMED BY CITY OF HATTIESBURG PERSONNEL. ALL OTHER MODIFICATIONS (VALVE ADJUSTMENTS, INSTALLATION OF PROPOSED MAINS, ETC.) SHALL BE PERFORMED WITH NO OUTAGES UNLESS APPROVED BY THE CITY OF HATTIESBURG WATER DIRECTOR (MATT BOUTWELL, 601-545-4530). **ANY AND ALL FEES (INCLUDING TAPPING FEES) REQUIRED BY THE CITY OF HATTIESBURG FOR RELOCATING AND/OR ABANDONING UTILITIES SHALL BE ABSORBED INTO PROVIDED BID ITEMS.**
16. ADDITIONAL LENGTHS OF PIPE MAY BE REQUIRED FOR VERTICAL GRADE CHANGE ON WATER MAINS. CONTRACTOR SHALL INCLUDE THIS QUANTITY IN "HYDRANT RELOCATION" PAY ITEM EVEN IF NOT SHOWN ON PLANS.
17. ALL INSTALLATIONS OF WATER MAIN, HYDRANTS, ETC. SHALL BE TESTED PER MISSISSIPPI DEPARTMENT OF HEALTH REGULATIONS WHICH CAN BE FOUND IN THE TECHNICAL SPECIFICATIONS (SECTION 02510 - WATER UTILITY DISTRIBUTION PIPING). **ALL COSTS ASSOCIATED WITH UTILITY TESTING SHALL BE ABSORBED.**
18. PROPOSED HYDRANT SHALL BE TYPE AND MANUFACTURER AS REQUIRED BY CITY OF HATTIESBURG (SUBMITTALS REQ'D).
19. ANY FITTINGS NECESSARY SHALL BE COST ABSORBED.

				BY	MISCELLANEOUS DETAILS CITY OF HATTIESBURG WATER & SEWER SYSTEM MODIFICATIONS					
				REVISION		ENGINEER: THE WALKER ASSOCIATES, PLLC				WORKING NUMBER MD-3
				DATE		FILENAME: 178-11 Details.dwg				SHEET NUMBER 15.2
					CHECKED BY	DBG	DATE	Jul 09, 2020		

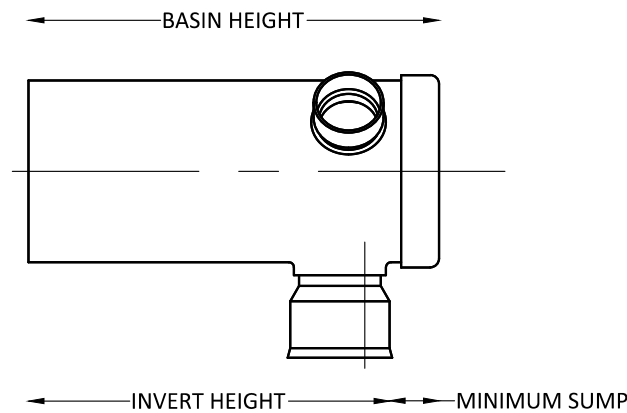
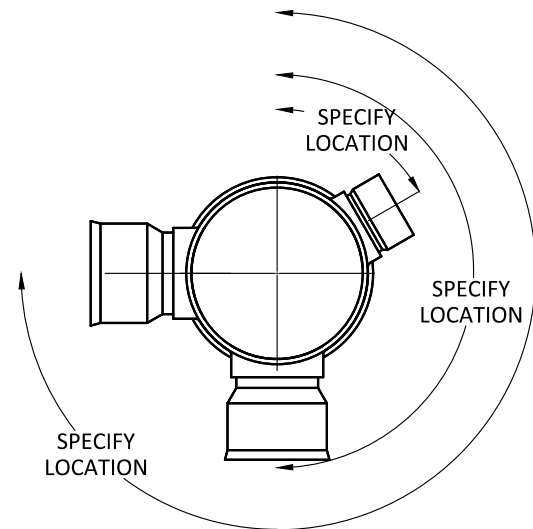
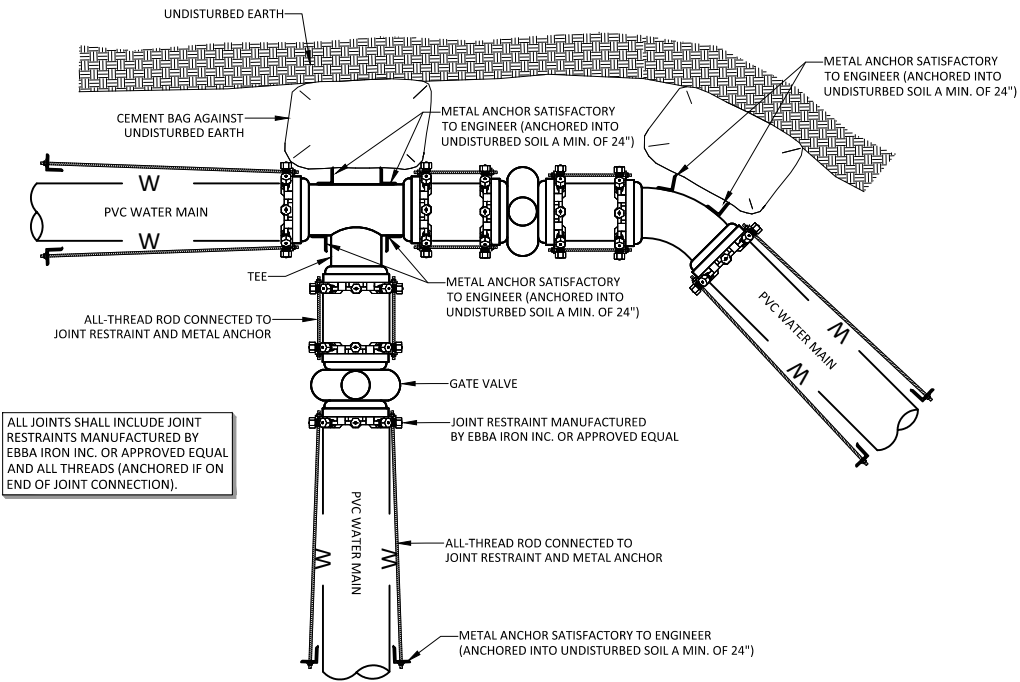
COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD-0018(35)BO



ADELINE WATER & SEWER MODIFICATIONS

SCALE: 1" = 40'

				BY		REVISION		DATE	MISCELLANEOUS DETAILS CITY OF HATTIESBURG WATER & SEWER SYSTEM MODIFICATIONS		ENGINEER: THE WALKER ASSOCIATES, PLLC		WORKING NUMBER MD-4	
									FILENAME: 178-11 Details.dwg		CHECKED BY: DBG		DATE: Jul 09, 2020	
													SHEET NUMBER 15.3	

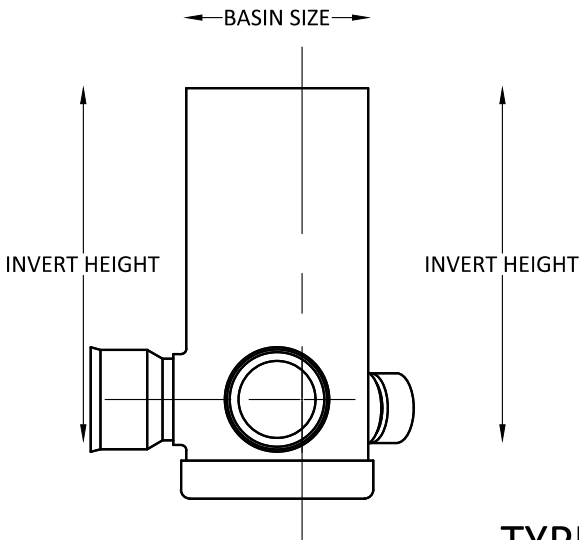


BASIN SIZE	STANDARD HEIGHT	MINIMUM SUMP
8"	18"	6"
10"	20"	6"
12"	24"	6"
15"	30"	6"
18"	34"	6"
24"	38"	8"
30"	48"	10"
36"	54"	14"

Grate Options	
H-25	H-25 Rated Heavy Duty
Ped	H-10 Pedestrian (8" - 24" only)
Drop	H-10 Pedestrian Drop In (8" - 30")
Solid	Solid Grate (12" - 36" only)
Domed	Domed Grate (8" & 10" only)

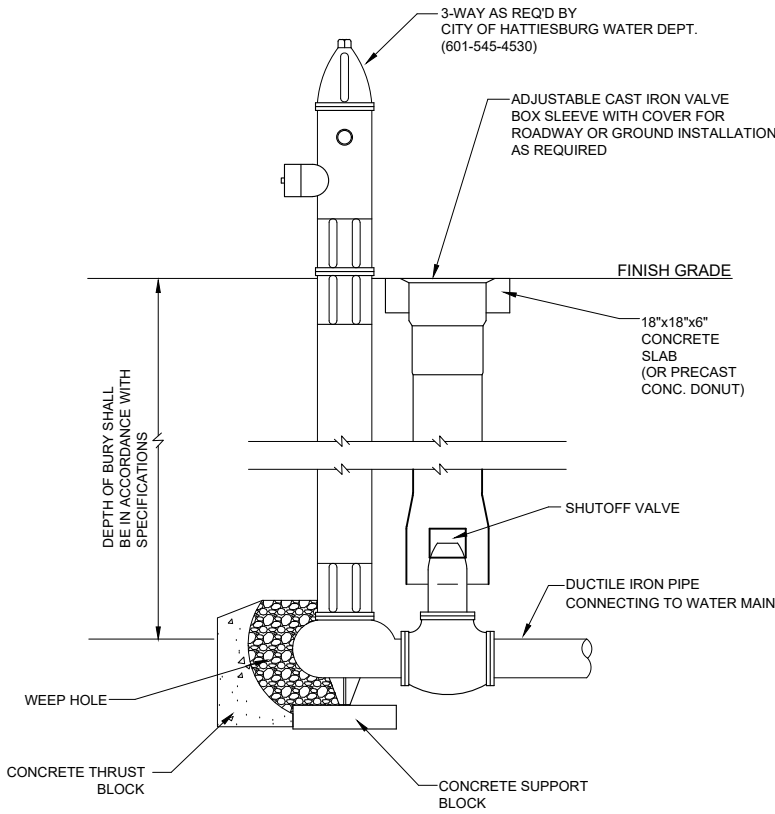
AVAILABLE PIPE TYPES	
SWR-G	Sewer Gasketed
SWR-S	Sewer SW/B
IPS	Iron Pipe Size
CIOD	Cast Iron OD
UCR	Ultra - Core
URB	Ultra - Rib
VYL	Vylon
PERM	Perma-Loc
PRO	Pro - 21
ACO	A2000 / F-949
HAN	Hancor
ADS	N-12

8-15" Basins are constructed to ASTM D3034
18-36" Basins are constructed to ASTM F679

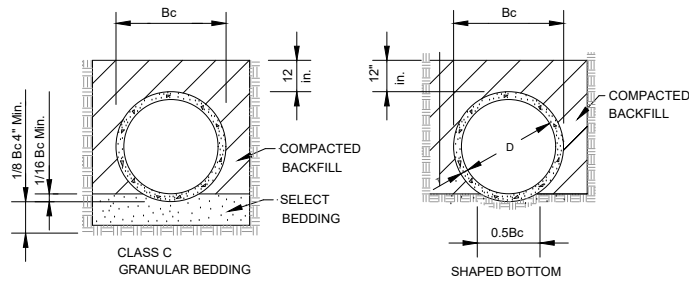


TYPICAL PVC INLET DETAIL
SCALE: NTS

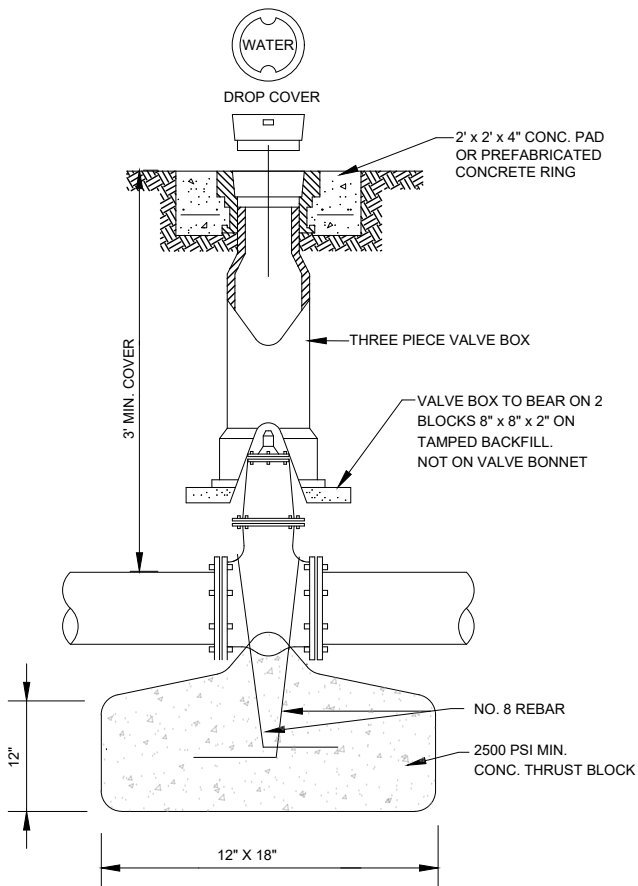
PVC INLETS SHALL BE MANUFACTURED BY
CONTECH CONSTRUCTION PRODUCTS
(MIDDLETOWN, OH) OR APPROVED EQUAL.



TYPICAL FIRE HYDRANT
SCALE: NTS



TYPICAL TRENCH DETAIL
SCALE: NTS



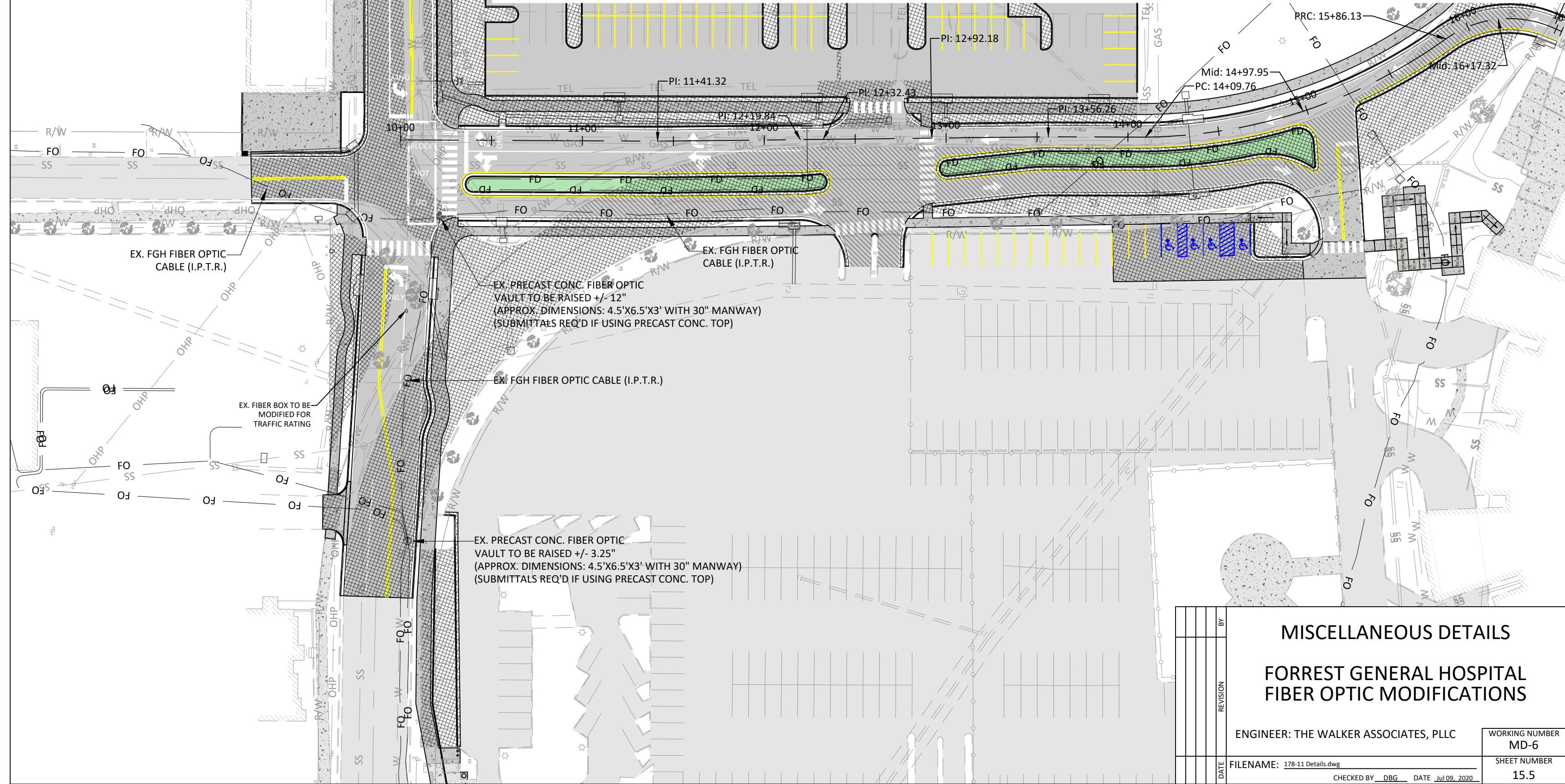
TYPICAL GATE VALVE DETAIL
SCALE: NTS

BY				MISCELLANEOUS DETAILS	
REVISION				WATER SYSTEM & DRAINAGE DETAILS	
ENGINEER: THE WALKER ASSOCIATES, PLLC				WORKING NUMBER MD-5	
FILENAME: 178-11 Details.dwg				SHEET NUMBER 15.4	
CHECKED BY DBG DATE Jul 09, 2020					

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD-0018(35)BO

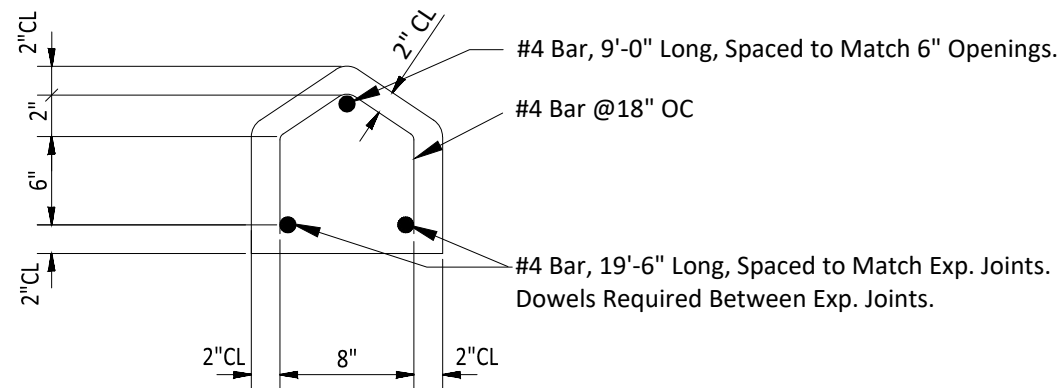
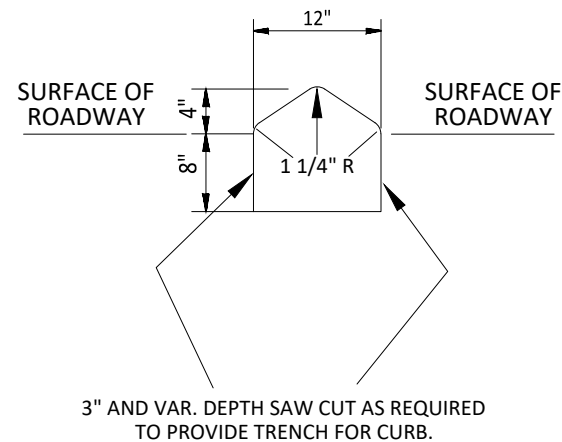
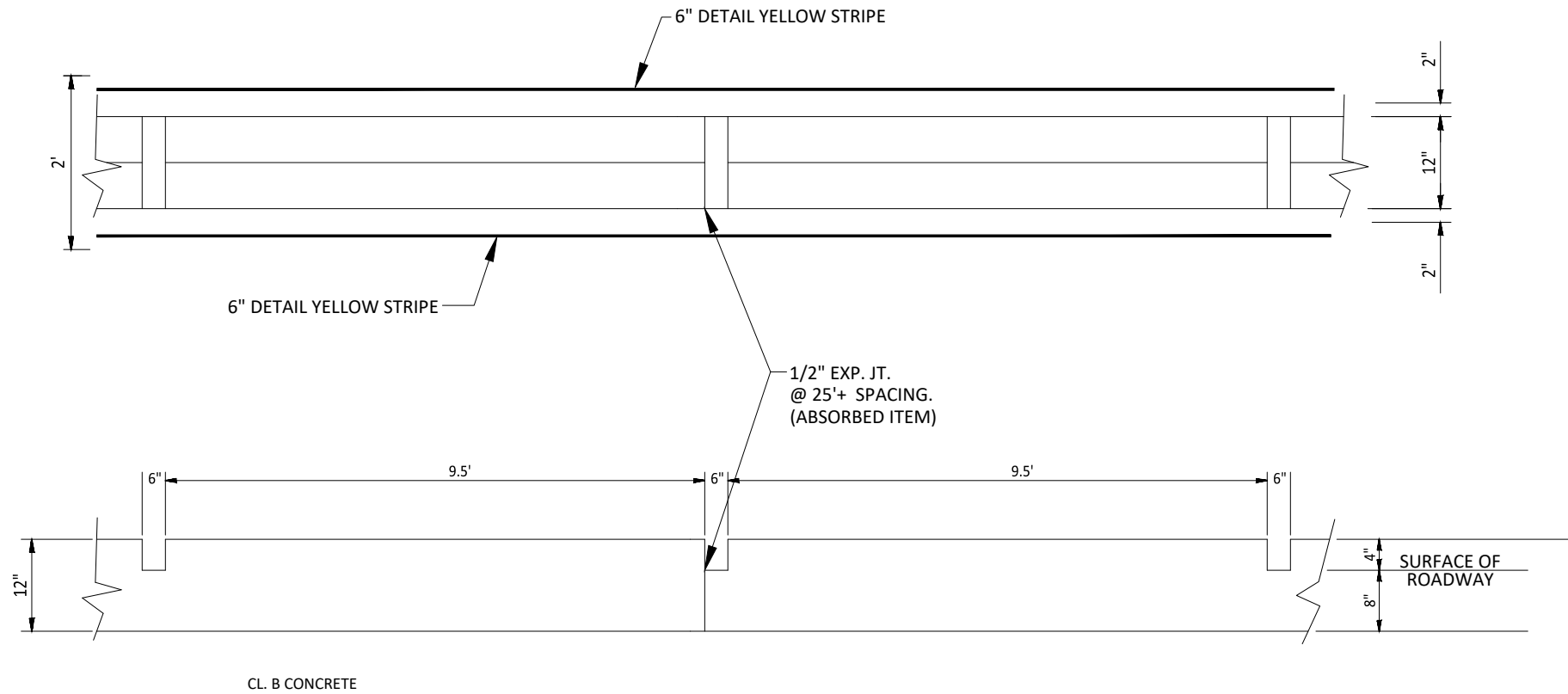
GENERAL NOTES:

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7. CONTRACTOR SHALL RESTORE ALL AREAS DAMAGED OR DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION. IN ADDITION, ALL AREAS OF THE JOB SITE SHALL BE MAINTAINED IN A NEAT AND ORDERLY FASHION.
8. THE CONTRACTOR SHALL NOT LEAVE ANY OPEN TRENCHES OVER NIGHT. ALL TRENCHES SHALL BE FILLED BY THE END OF THE DAY.
9. EXISTING CONCRETE FIBER OPTIC VAULTS ARE CONSIDERED "TRAFFIC RATED". ALL MODIFICATIONS TO EXISTING FIBER OPTIC BOXES SHALL MAINTAIN A "TRAFFIC RATED" BOX. SUBMITTALS ARE REQUIRED FOR ALL PRECAST VALVE BOX TOPS USED FOR RAISING THE ELEVATION OF EXISTING BOXES TO MATCH FINISH GRADES.



MISCELLANEOUS DETAILS			
FORREST GENERAL HOSPITAL FIBER OPTIC MODIFICATIONS			
ENGINEER: THE WALKER ASSOCIATES, PLLC			WORKING NUMBER MD-6
FILENAME: 178-11 Details.dwg			SHEET NUMBER 15.5
CHECKED BY: DBG DATE: Jul 09, 2020			

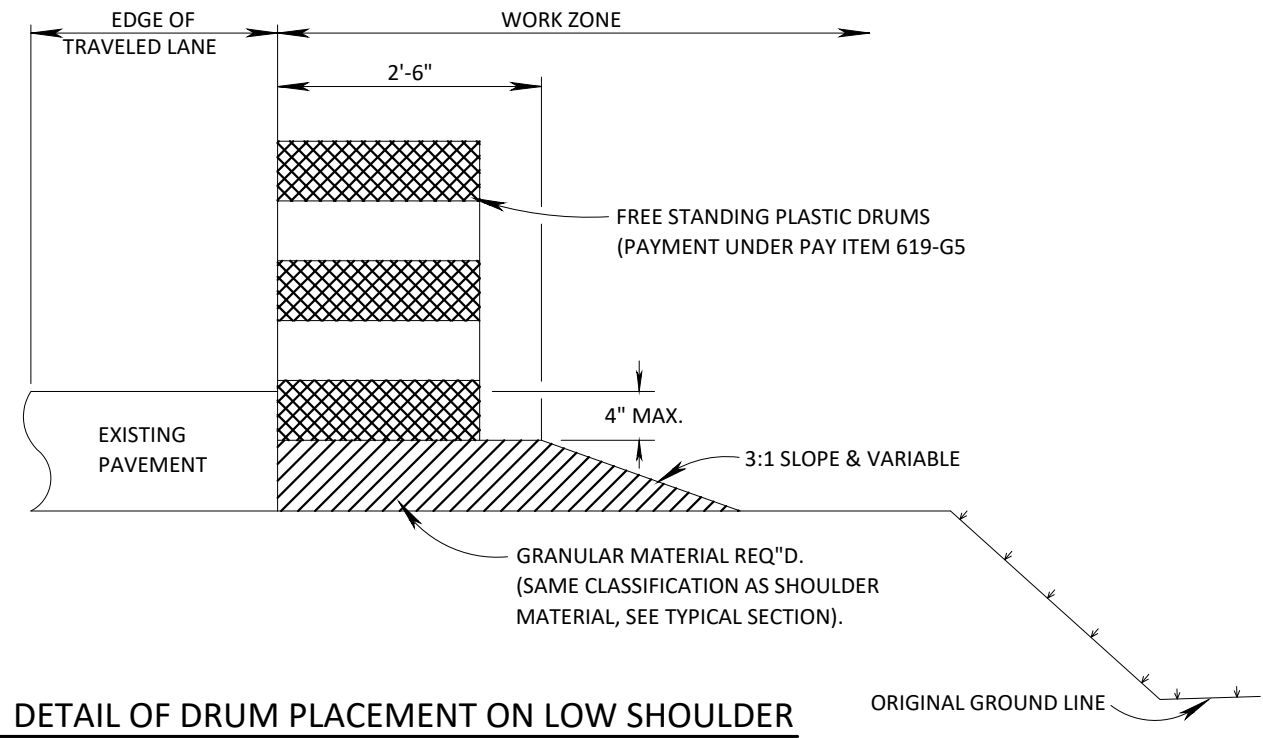
COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD-0018(35)BO



SPECIAL DESIGN SLOTTED CURB

CLASS B STRUCTURAL CONCRETE

NTS



DETAIL OF DRUM PLACEMENT ON LOW SHOULDER

MISCELLANEOUS DETAILS

SPECIAL DESIGN SLOTTED CURB & BARREL PLACEMENT DETAIL

ENGINEER: THE WALKER ASSOCIATES, PLLC

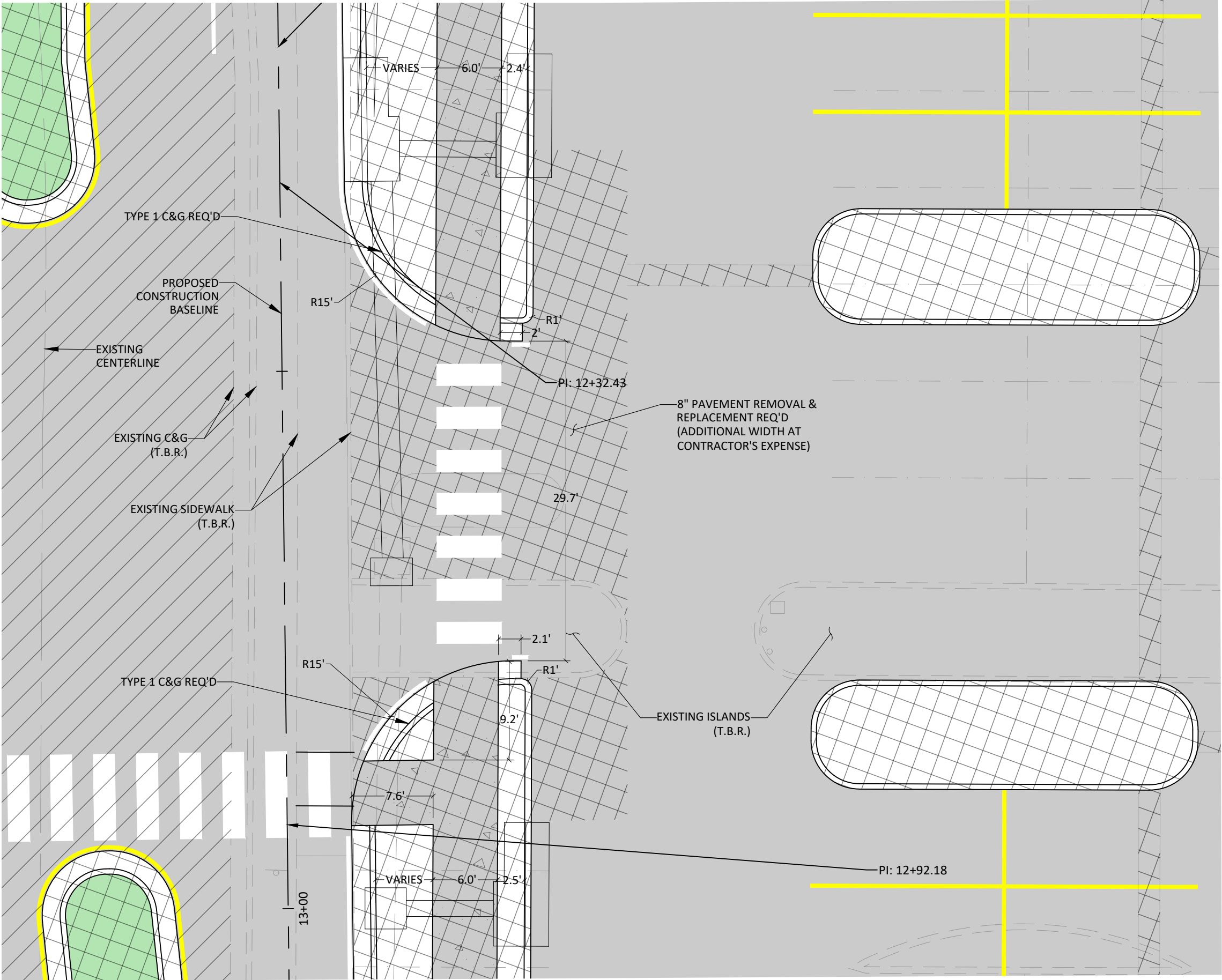
WORKING NUMBER
MD-8

FILENAME: 178-11 Details.dwg

SHEET NUMBER
15.7

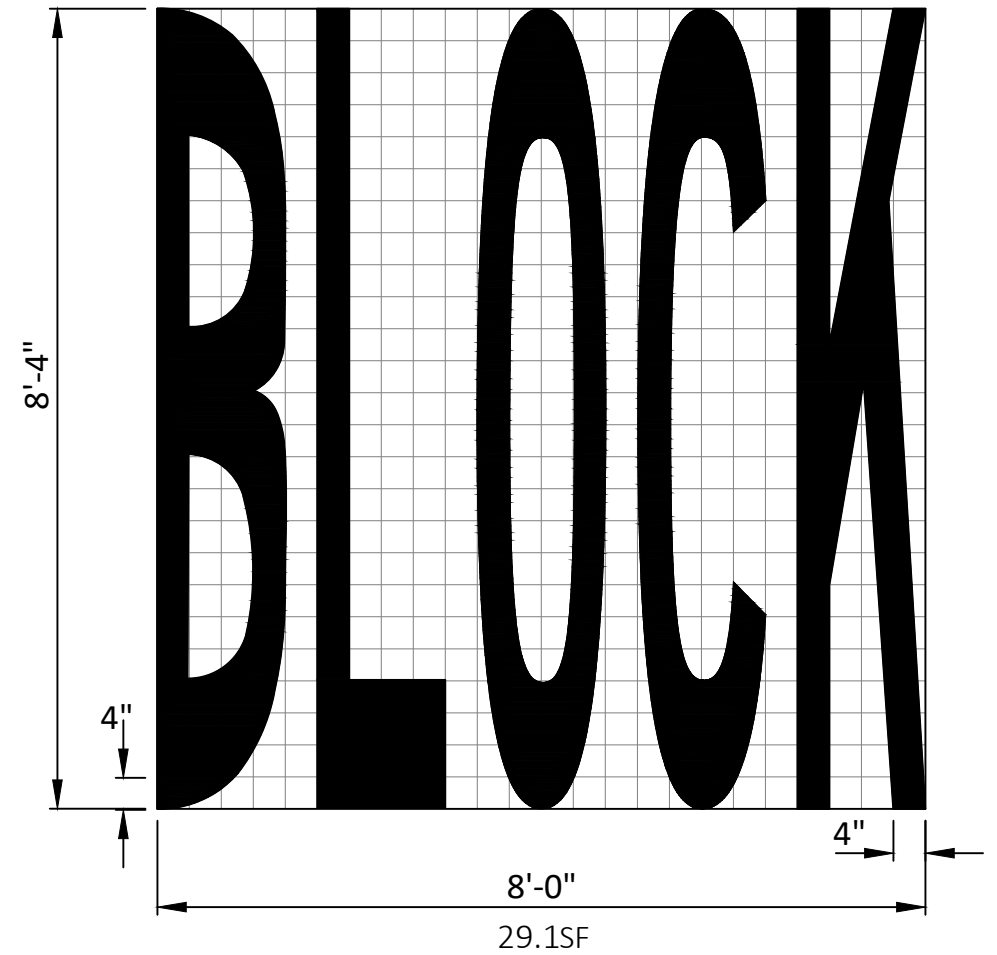
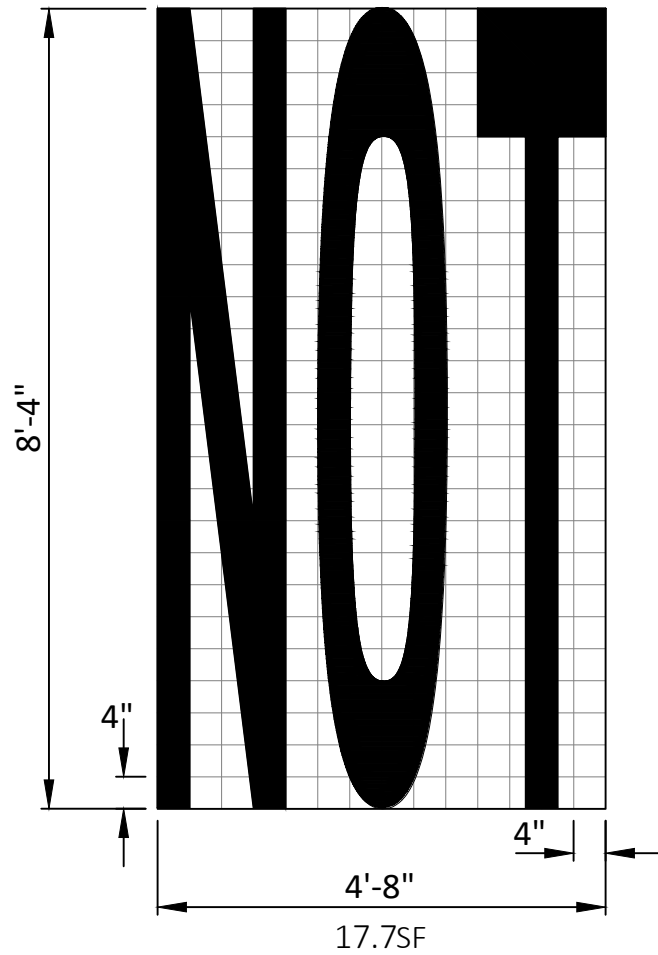
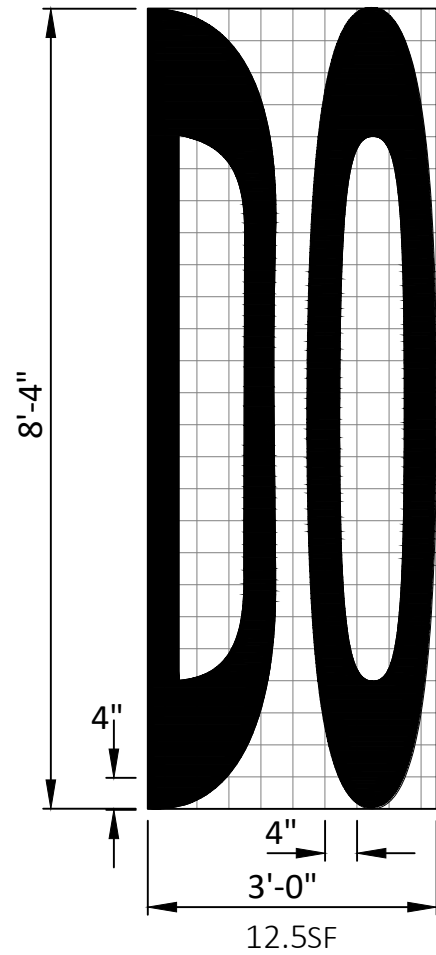
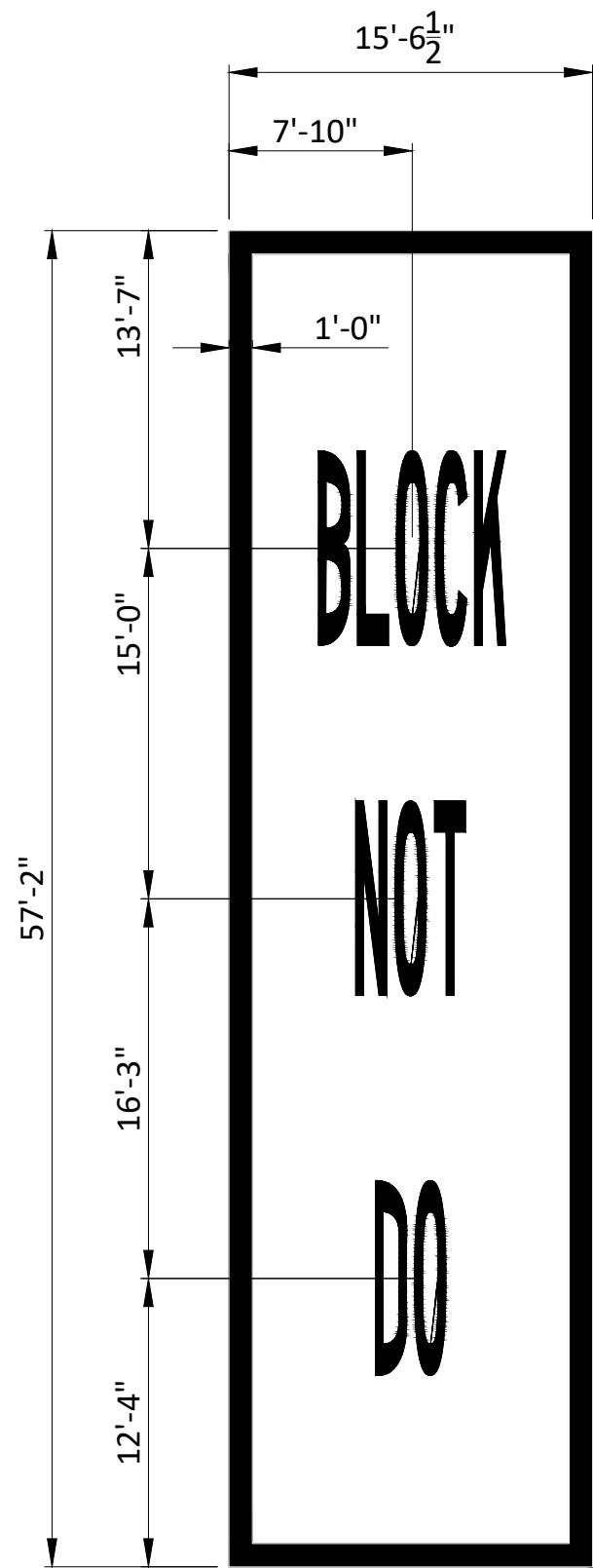
CHECKED BY: DBG DATE: Jul 09, 2020

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD-0018(35)BO



FORREST GENERAL HOSPITAL
PARKING ACCESS ON
EMERGENCY ROOM ENTRANCE
SCALE: 1" = 10'

				MISCELLANEOUS DETAILS	
				DRIVE DETAIL	
				ENGINEER: THE WALKER ASSOCIATES, PLLC	WORKING NUMBER MD-9
				FILENAME: 178-11 Details.dwg	SHEET NUMBER 15.8
				CHECKED BY: DBG	DATE: Jul 09, 2020



"DO NOT BLOCK" PAVEMENT MARKING DETAIL
SCALE: NTS

				BY	MISCELLANEOUS DETAILS	
				REVISION		
				DATE	"DO NOT BLOCK" PAVEMENT MARKING DETAIL	
					ENGINEER: THE WALKER ASSOCIATES, PLLC	WORKING NUMBER MD-10
					FILENAME: 178-11 Details.dwg	SHEET NUMBER 15.9
					CHECKED BY <u>DBG</u> DATE <u>Jul 09, 2020</u>	



**FORREST GENERAL HOSPITAL
EMERGENCY ENTRANCE SIGN DETAILS**
SCALE: NTS

				BY	MISCELLANEOUS DETAILS			
				REVISION	FORREST GENERAL HOSPITAL EMERGENCY ENTRANCE SIGN DETAILS			
				DATE	ENGINEER: THE WALKER ASSOCIATES, PLLC			WORKING NUMBER MD-11
					FILENAME: 178-11 Details.dwg			SHEET NUMBER 15.10
					CHECKED BY: DBG DATE: Jul 09, 2020			

CHECKED BY: DEW

DRAWN BY: DBG

DESIGNED BY: DBG

COUNTY: FORREST

Jul 09, 2020 - 10:50pm

EL-1

FILE NAME: D:\Civil\3D - 178-11\dwg\178-11 Electrical.dwg

DESIGN TEAM: THE WALKER ASSOCIATES, PLLC

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

FORREST GENERAL HOSPITAL
TRAFFIC CIRCULATION IMPROVEMENTS
MAMIE AND CAMP STREET AREAS
ELECTRICAL DEMOLITION AND CONSTRUCTION IMPROVEMENTS
APRIL 2013

DESCRIPTION OF SCOPE OF ELECTRICAL CONSTRUCTION REQUIREMENTS

1. THIS PROJECT WILL REQUIRE THE RELOCATION OF THE EXISTING 120/240-VOLT, 1-PHASE UNDERGROUND SERVICE AND POWER SOURCE SERVING THE EXISTING EXTERIOR PARKING LOT LIGHTING SYSTEMS (EAST PARKING LOT, NORTH PARKING LOT, AND WEST PARKING LOT AND MISCELLANEOUS LOADS AND CORRESPONDING UNDERGROUND CIRCUITS.

GENERAL ELECTRICAL CONSTRUCTION REQUIREMENTS

1. THE CONTRACTOR SHALL CONTACT MISSISSIPPI POWER COMPANY (ELECTRICITY UTILITY SUPPLIER), NATURAL GAS SUPPLIER, CITY OF HATTIESBURG (WATER AND SANITARY SEWER SUPPLIER), OWNER AND MISSISSIPPI ONE CALL (811) BEFORE PERFORMING ANY UNDERGROUND CONSTRUCTION, DIGGING, TRENCHING, BORING OR EXCAVATION TO CONFIRM, LOCATE EXISTING OVERHEAD AND UNDERGROUND UTILITIES AND MARK THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES.
2. THE CONTRACTOR MUST ALSO VERIFY AND MARK THE LOCATIONS OF THE EXISTING UNDERGROUND COMMUNICATIONS, FIBER OPTICS, OWNER'S UNDERGROUND 120/240-VOLT EXTERIOR LIGHTING CIRCUITS, AND OWNER'S IRRIGATION SYSTEM LINES LOCATED NEAR THE CONSTRUCTION AREA.

ELECTRICAL DEMOLITION REQUIREMENTS

1. CONTRACTOR SHALL LOCATE THE EXISTING POWER SOURCE INCLUDING UNDERGROUND SERVICE FROM MPC (METER # 248360) AND PANEL LP (SQUARE-D NQOD) RATED 225-AMP, 120/240-VOLT, 3-WIRE, 1-PHASE. THE PANEL LP PROVIDES BREAKERS FOR SERVING UNDERGROUND CIRCUITS TO ADJACENT EXTERIOR LIGHTING AND MISCELLANEOUS POWER.
2. CONTRACTOR SHALL LOCATE AND IDENTIFY UNDERGROUND CIRCUITS AND CONDUITS SERVING THE EXISTING EXTERIOR LIGHTING AND MISCELLANEOUS POWER REQUIREMENTS (IRRIGATION SYSTEMS CONTROLLERS, ELECTRIC GATE OPERATORS, WARNING LIGHTS, AND SPECIAL PURPOSE RECEPTACLES).
3. CONTRACTOR SHALL DISCONNECTION AND COORDINATE REMOVAL OF EXISTING UNDERGROUND SERVICE AND METER WITH MPC FROM ADJACENT POWER POLE TO PANEL LP.
4. CONTRACTOR SHALL DISCONNECT THE SERVICE ENTRANCE AND ALL UNDERGROUND CIRCUITS FROM THE EXISTING PANEL LP. CONTRACTOR SHALL IDENTIFY, VERIFY AND MARK THE EXISTING UNDERGROUND CIRCUITS AND THEIR RESPECTIVE LOADS THAT WILL BE EXTENDED AND RECONNECTED TO NEW POWER SOURCE.
5. CONTRACTOR SHALL REMOVE THE OLD 2 EACH 3#4 OR #8 THWN COPPER (CONTRACTOR TO VERIFY) CIRCUITS WHICH ONCE SERVED RECREATION VEHICLE OUTLETS (RV) LOCATED ON EXTERIOR LIGHTING FOUNDATIONS IN THE NORTH PARKING LOT (FIRST LIGHTING STANDARD). THE CORRESPONDING CONDUITS ARE ALSO USED FOR THE EXTERIOR LIGHTING CIRCUITS. OLD RV CIRCUITS TO THE EAST SIDE PARKING LOT LIGHTING STANDARD HAVE ALREADY BEEN REMOVED. CORRESPONDING 30-AMP AND 50-AMP, 2-POLE BREAKERS WILL BE ELIMINATED.
6. CONTRACTOR SHALL LOCATE, IDENTIFY AND REMOVE THE EXISTING 20-AMP CIRCUITS SAND BREAKER SERVING THE CAMP STREET ENTRANCE GATE OPERATOR WHICH WILL BE ELIMINATED WITH THIS PROJECT. CORRESPONDING CONDUIT MAY BE VOIDED IN PLACE.
7. CONTRACTOR SHALL DISCONNECT ALL CIRCUITS FROM PANEL LP AND REMOVE PANEL LP AND CORRESPONDING GALVANIZED MOUNTING RACK.

NEW ELECTRICAL CONSTRUCTION REQUIREMENTS

1. CONTRACTOR SHALL INSTALL NEW POWER SOURCE APPROXIMATELY 10-15' TO THE EAST AND IN PARKING SPACE OF EAST PARKING LOT. NEW POWER SOURCE WILL INCLUDE THE FOLLOWING:
 - NEW LOW PROFILE GALVANIZED UNISTRUT AND STEEL CHANNEL RACK TO SUPPORT NEW POWER SOURCE EQUIPMENT
 - NEW 200-AMP, 3-WIRE, 1-PHASE METER SOCKET (MILBANK) IN NEMA-3R ENCLOSURE (COORDINATE WITH MPC)
 - NEW UNDERGROUND SERVICE TO RELOCATED MPC POWER POLE IN 2" SCHEDULE 40 PVC (COORDINATE WITH MPC)
 - NEW PANEL LP RATED 225-AMP, 120/240-VOLT, 1-PHASE PANEL IN WEATHER PROOF ENCLOSURE COMPLETE WITH MAIN BREAKER AND BRANCH BREAKERS AND LOCKING FRONT DOOR AS PER PANEL SCHEDULE
 - NEW 3#4/0 THWN COPPER IN 2" GSR SERVICE ENTRANCE FROM METER SOCKET TO NEW PANEL LP (COORDINATE WITH MPC)
 - PROVIDE #6 COPPER GROUND TO 5/8" X 10' GROUND ROD (< 25-OHMS)
2. CONTRACTOR SHALL INSTALL NEW 24"W X 36"L X 24"D COMPOSITE TYPE PULL SPLICE BOX #1 (EQUAL TO QUAZITE PG) IN OR NEAR NEW CONCRETE WALKWAY AND AT BASE OF OLD PANEL LP FOR EXTENDING, INTERCEPTING, AND SPLICING EXISTING REMAINING UNDERGROUND CIRCUITS TO NEW POWER SOURCE.
3. CONTRACTOR SHALL INSTALL A 3" OR MULTIPLE 2" SCHEDULE 40/80 PVC CONDUITS FROM NEW PANEL LP TO NEW PULL BOX #1 FOR MAKING EXTENSIONS OF REMAINING UNDERGROUND CIRCUITS.
4. CONTRACTOR SHALL EXTEND THE FOLLOWING UNDERGROUND CIRCUITS WITH RESPECTIVE LOADS FROM NEW PANEL LP TO ABOVE PULL BOX AND MAKE CONNECTIONS TO EXISTING CIRCUITS IN PULL BOX (PROVIDE EXTRA LENGTH FOR MAKING SPLICES TO EXISTING WIRING):
 - 3 EACH 3#6+G THWN COPPER, 240-VOLT CIRCUITS FOR WEST PARKING LOT LIGHTING
 - 1 EACH 3#8+G THWN COPPER, 240-VOLT CIRCUITS FOR NORTH PARKING LOT
 - 3 EACH 3#10 THWN COPPER, 120-VOLT CIRCUITS FOR WEST PARKING LOT GATE CONTROLLER AND FOR FLASHING WARNING LIGHT AND DUPLEX RECEPTACLE ON LIGHTING STANDARD WEST NEAR STREET
 - 3 EACH 3#8+G THWN COPPER, 240-VOLT CIRCUITS FOR EAST PARKING LOT LIGHTING
 - EXTRA #8 AND #6 WIRING FOR UNFORSEEN
5. CONTRACTOR SHALL INSTALL A NEW 2" SCHEDULE 40/80 PVC CONDUIT FROM NEW PANEL LP UNDER NEW EMERGENCY ROOM DRIVE WEST TO A NEW PULL-SPLICE BOX #2 LOCATED IN NEWLY CREATED GRASS AREA ON WEST SIDE OF STREET.
6. CONTRACTOR SHALL INSTALL NEW 24"W X 36"L X 36"D PULL BOX #2 (EQUAL TO QUAZITE PG) EQUIPPED WITH TWO PIECE HEAVY DUTY OPERATING COVER IN NEWLY CREATED GRASS AREA ON THE WEST SIDE OF THE NEW EMERGENCY ROOM DRIVE. SPECIAL PURPOSE WP-GFCI QUADRUPLX OUTLETS WILL BE MOUNTED ON THE INSIDE WALL OF THIS BOX FOR CHRISTMAS SEASON DECORATIONS AND OTHER MISCELLANEOUS PURPOSES.
7. CONTRACTOR SHALL INSTALL THREE EACH 3#10 THWN COPPER CIRCUITS IN 2" SCHEDULE 40/80 PVC CONDUIT FROM NEW PANEL LP TO PULL-BOX #2 FOR CONNECTIONS TO QUADRUPLX WP-GFCI OUTLETS.
8. CONTRACTOR SHALL INSTALL 3 EACH 4"x4" NON-METALLIC BOXES WITH 2 EACH 20-AMP DUPLEX GFCI RECEPTACLES (QUADRUPLX OUTLETS) AND WP COVERS AND MOUNT ON SIDE OF PULL-BOX.
9. SPECIAL PULL-SPLICE BOXES SHALL BE HEAVY DUTY PRECAST POLYMER CONCRETE REINFORCED WITH FIBERGLASS AND EQUAL TO QUAZITE PG TIER 5 DESIGN FOR LOADS UP TO 5200 LBS AND WITH HEAVY DUTY COVER AND GASKET WITH "FGH ELECTRICAL" LOGO.
10. SPECIAL PURPOSE PULL-SPLICE BOXES LOCATED IN CONCRETE WALKWAYS SHALL BE GRAY IN COLOR WHILE THOSE LOCATED IN GRASS AREAS SHALL BE GREEN IN COLOR OR AS APPROVED BY OWNER.
11. ALL SPLICES AND TAPS MADE INSIDE THE PULL-BOXES SHALL BE SEALED WATER TIGHT WITH WRAPAROUND GEL CLOSURE EQUAL TO TYCO ELECTRONICS OR RAYCHEM H-FRAME GEL ENCLOSURE OR GEL IN LINE SPLICE KITS WITH H-FRAME COMPRESSION TYPE CONNECTIONS, HEAT SHRINK TUBING AND RUBBER ELECTRICAL TAPE.
12. CONTRACTOR SHALL VERIFY AND IDENTIFY ALL CIRCUITS SERVED FROM NEW PANEL LP AND PROVIDE REVISED TYPE WRITTEN DIRECTORY IN PANEL.

END OF ELECTRICAL CONSTRUCTION NOTES

ELECTRICAL PANEL SCHEDULE PANEL MARK NEW LP				FORREST GENERAL HOSPITAL TRAFFIC IMPROVEMENTS PROJECT HATTIESBURG, MISSISSIPPI			FED: 3#4/0 THWN CU 2" C FROM METER SOCKET	RATING: 225-AMPS, 120/240-V, 3-WIRE, 1-PH MB, EQUAL TO SQUARE-D NQ, NEMA-3R ENCL AIC RATING: 22,000, 36-42 POSITION			
CIRCUIT NO.	BREAKER		CIRCUIT SIZE/CONDUIT	LOAD DESCRIPTION	LOAD WATTS	LOAD WATTS	LOAD DESCRIPTION	CIRCUIT SIZE/CONDUIT	BREAKER		CIRCUIT NO.
	AMPS	POLES							AMPS	POLES	
1	30	2P	#4 THWN CU-3" C	WEST PARKING LOT LIGHTS	5000	5000	WEST PARKING LOT LIGHTS	#4 THWN CU-3" C	30	2P	2
3			VERIFY	CONTRACTOR TO VERIFY			CONTRACTOR TO VERIFY	VERIFY			4
5	30	2P	#6 THWN CU-3" C	WEST PARKING LOT LIGHTS	5000	5000	WEST PARKING LOT LIGHTS	#6 THWN CU-3" C	30	2P	6
7			VERIFY	CONTRACTOR TO VERIFY			CONTRACTOR TO VERIFY	VERIFY			8
9	30	2P	#8 THWN CU-2" C	EAST PARKING LOT LIGHTS	5000	2500	NORTH PARKING LOT LIGHTS	#8 THWN CU-2" C	30	2P	10
11			VERIFY	CONTRACTOR TO VERIFY			CONTRACTOR TO VERIFY				12
13	30	2P		SPARE			SPARE		30	2P	14
15											16
17	20	1P	#10 THWN CU-2" C	NEW PULL-BOX #2 OUTLETS	400	400	NEW PULL-BOX #2 OUTLETS	#10 THWN CU-2" C	20	1P	18
19	20	1P	#10 THWN CU-3" C	EXISTING WEST GATE	400	400	NEW PULL-BOX #2 OUTLETS	#10 THWN CU-2" C	20	1P	20
21	20	1P		SPARE BREAKER		400	EXISTING FLASHING LIGHT	#10 THWN CU-3" C	20	1P	22
23,25,	20	1P		SPARE BREAKERS			SPARE BREAKERS		20	1P	24,26
27-35				SPACE POSITIONS			SPACE POSITIONS				28-36
				TOTAL LOAD ESTIMATED PEAK AMPS	15800	13700	POTENTIAL PANEL LOAD AT 120/240-V, 1-PHASE = 110-125-AMPS				
					29000-W @ 240-V = 110 AMPS						
NOTES:											
1. PANEL LP EQUIPPED WITH LOCKING FRONT DOOR AND NEMA-3R, WEATHER PROOF ENCLOSURE FOR EXTERIOR LOCATION											
2. PANEL LP AND METER SOCKET MOUNTED TO LOW PROFILE GALVANIZED UNISTRUT AND STEEL CHANNEL ENCLOSURE											
3. COORDINATE CONTROL POWER WITH CONTROLS CONTRACTOR											
4. COORDINATE UNDERGROUND SERVICE TO METER SOCKET AND METER WITH MISSISSIPPI POWER COMPANY											
5. CONTRACTOR TO EXTEND CIRCUITS TO NEW PULL-BOX #1 AND SPLICE INTO EXISTING CIRCUITS											
6. CONTRACTOR TO VERIFY EXISTING CIRCUITS FOR SPLICING AND EXTENDING TO NEW PULL-BOX #1											
7. CONTRACTOR TO PROVIDE NEW #10 CIRCUITS IN NEW 2" PVC CONDUIT ACROSS STREET TO PULL-BOX #2 WP-GFCI OUTLETS MOUNTED IN BOX											
8. PROVIDE SPARE BREAKERS AS INDICATED IN THE SCHEDULE											

APRIL 2013

				BY	ELECTRICAL DETAILS	
				REVISION	ELECTRICAL CONSTRUCTION NOTES & ELECTRICAL PANEL SCHEMATIC DIAGRAM & SCHEDULE	
					ENGINEER: THE WALKER ASSOCIATES, PLLC	
				DATE	FILENAME: 178-11 Electrical.dwg	WORKING NUMBER EL-1
					CHECKED BY DBG DATE Jul 09, 2020	SHEET NUMBER 16.0

CHECKED BY: DEW

DRAWN BY: DBG

DESIGNED BY: DBG

COUNTY: FORREST

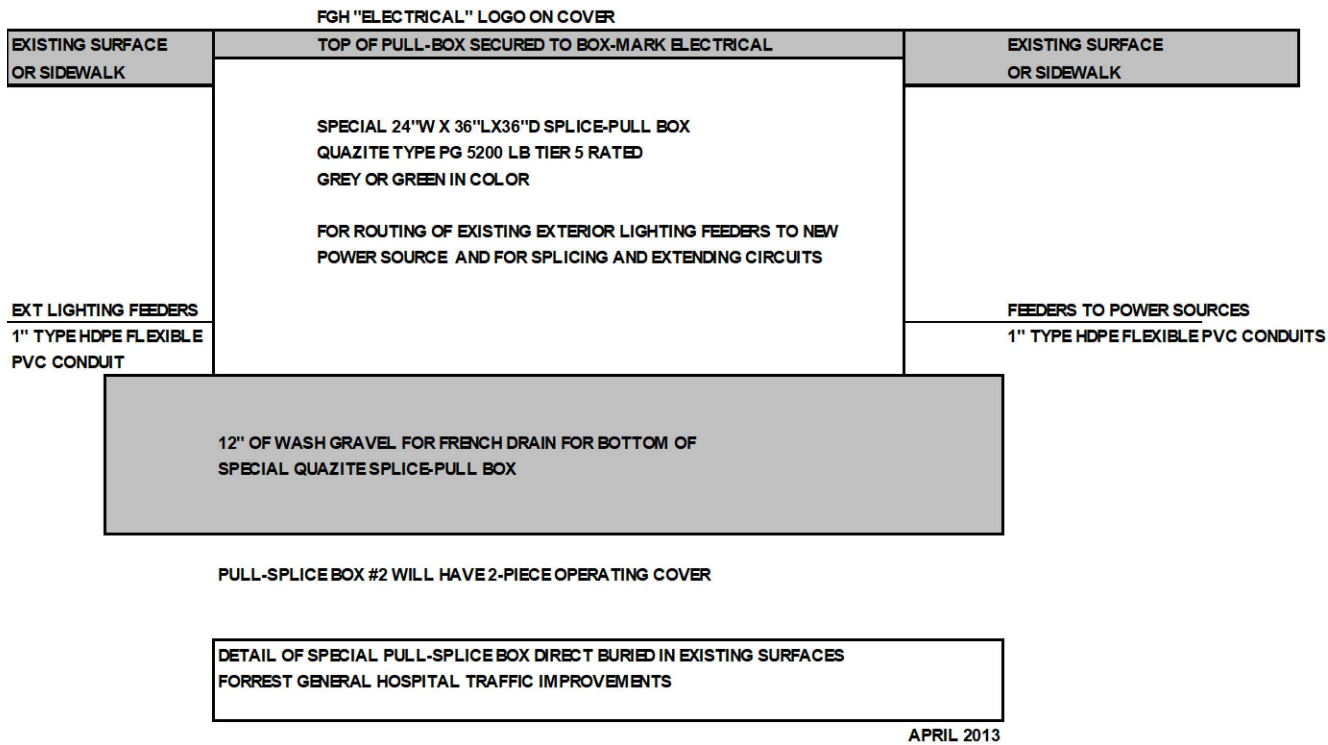
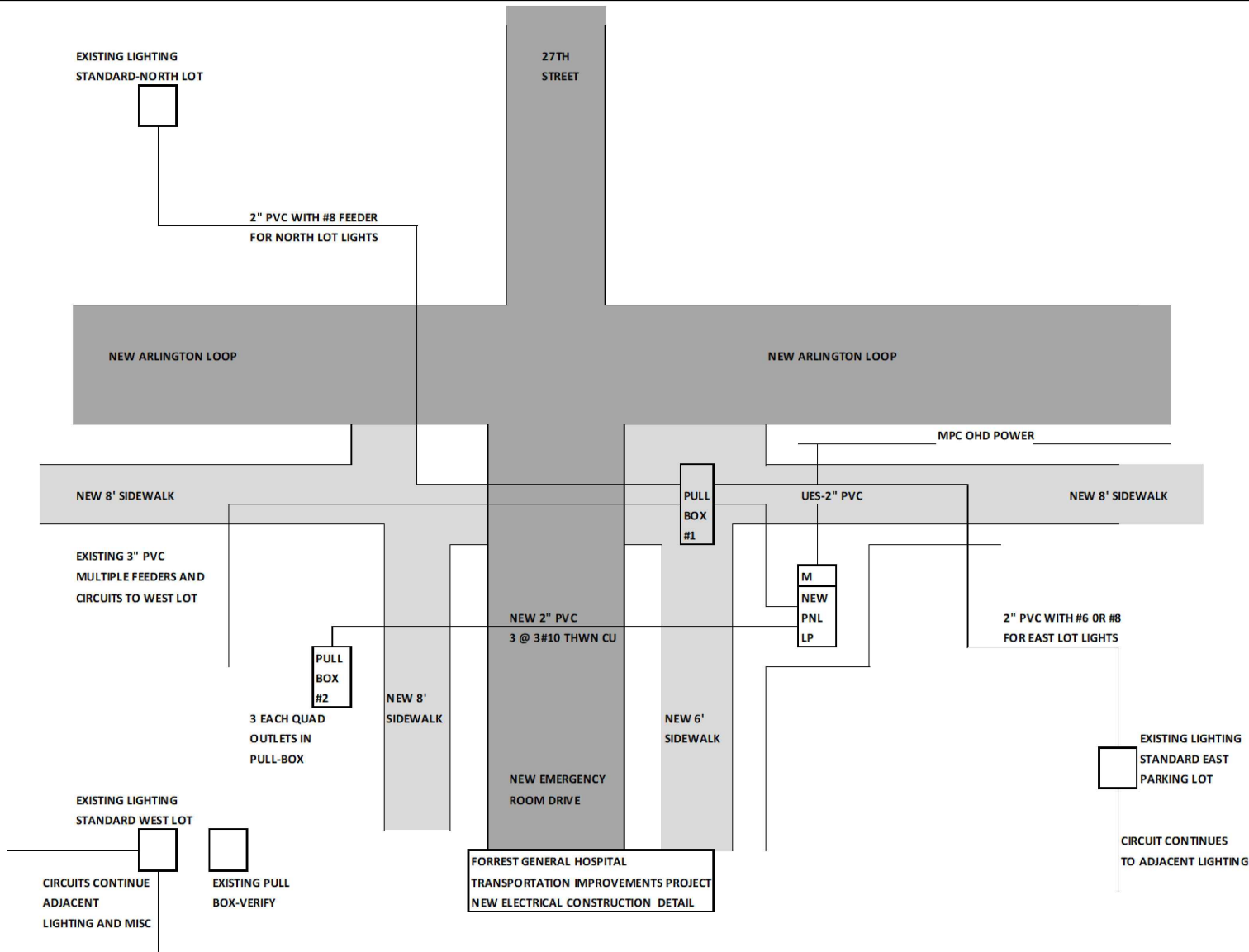
Jul 09, 2020 - 10:50pm

EL2

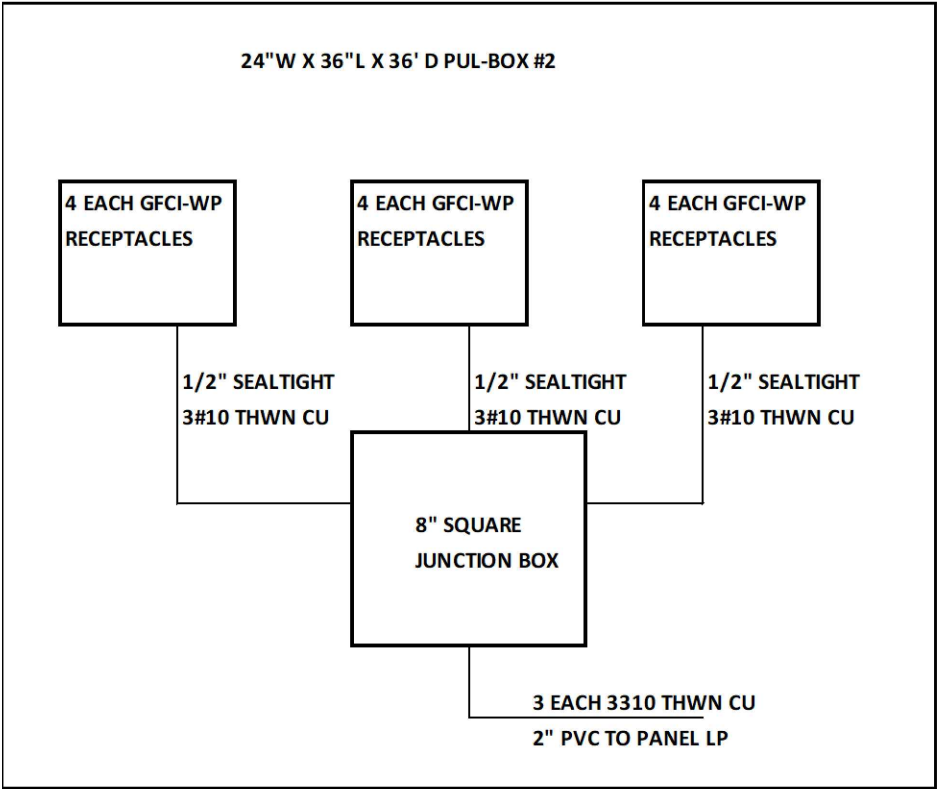
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DESIGN TEAM: THE WALKER ASSOCIATES, PLLC

COUNTY	STATE	PROJECT NUMBER
FORREST	MISS.	DECD - 0018(35)BO

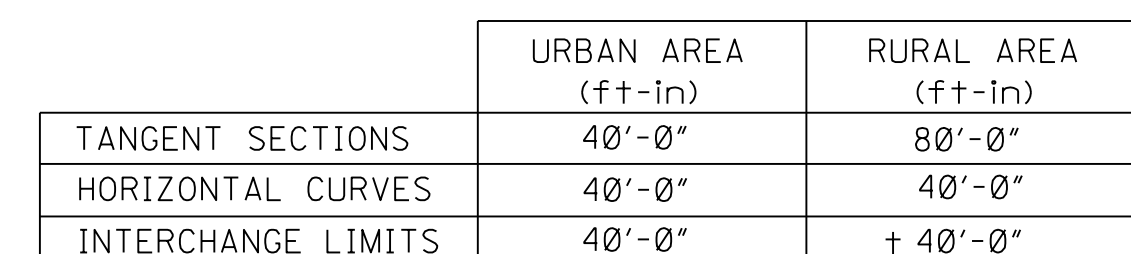
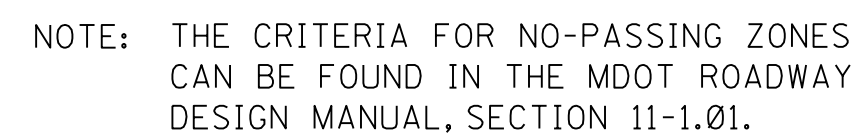


PULL-SPLICE BOX DETAIL



FORREST GENERAL HOSPITAL
TRANSPORTATION IMPROVEMENTS PROJECT
QUADRUPLUX OUTLET MOUNTING DETAIL
PULL-BOX #2

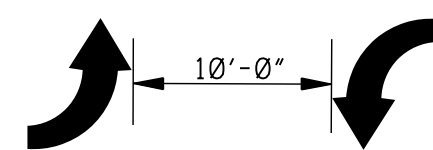
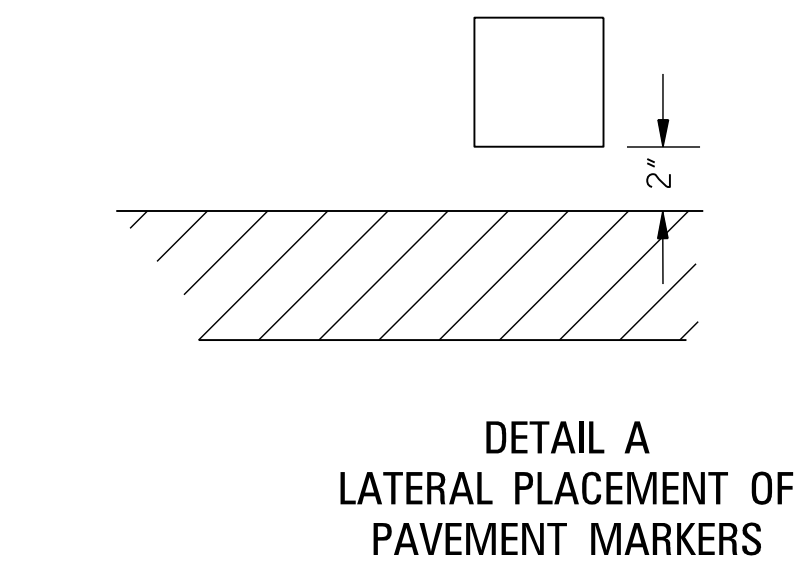
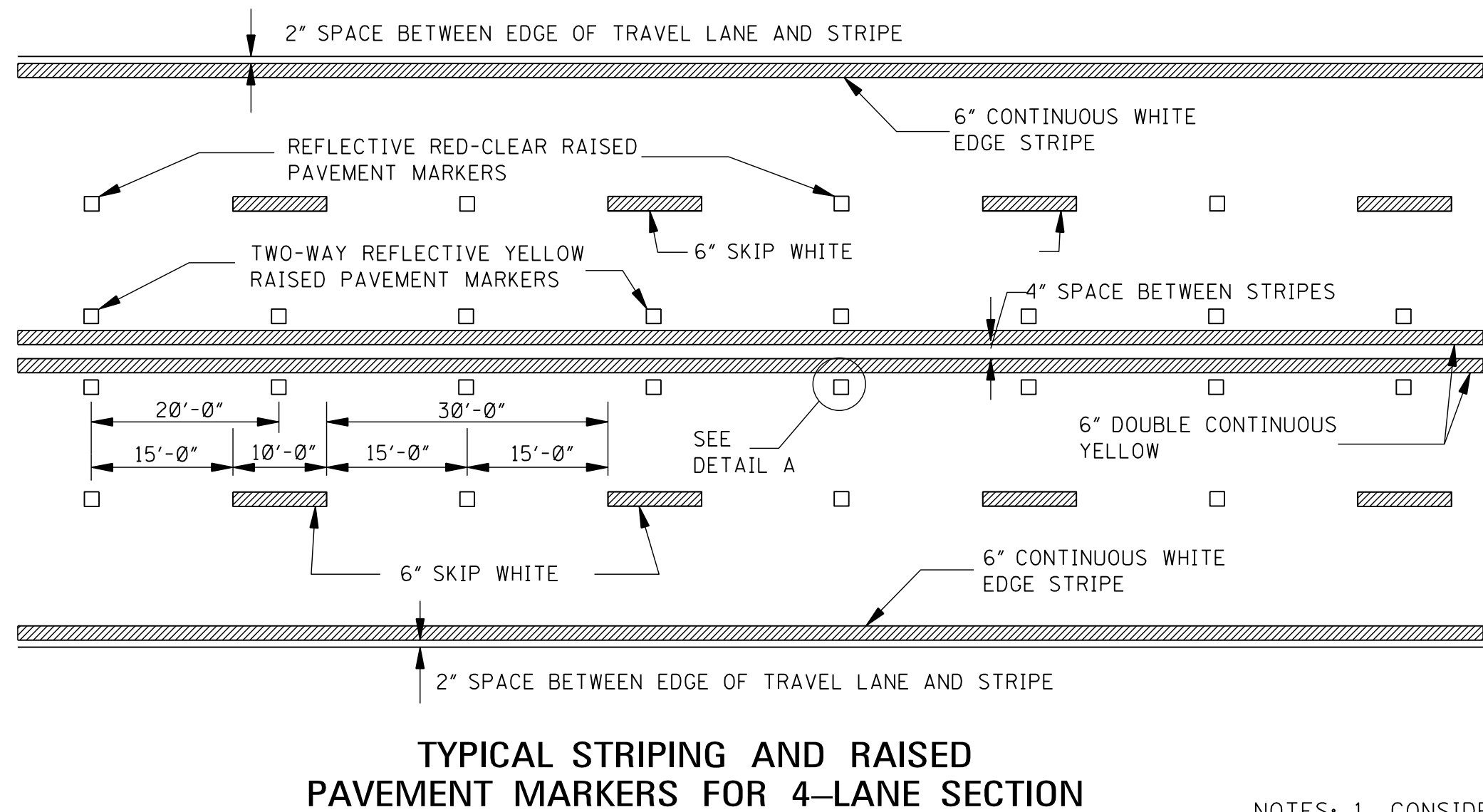
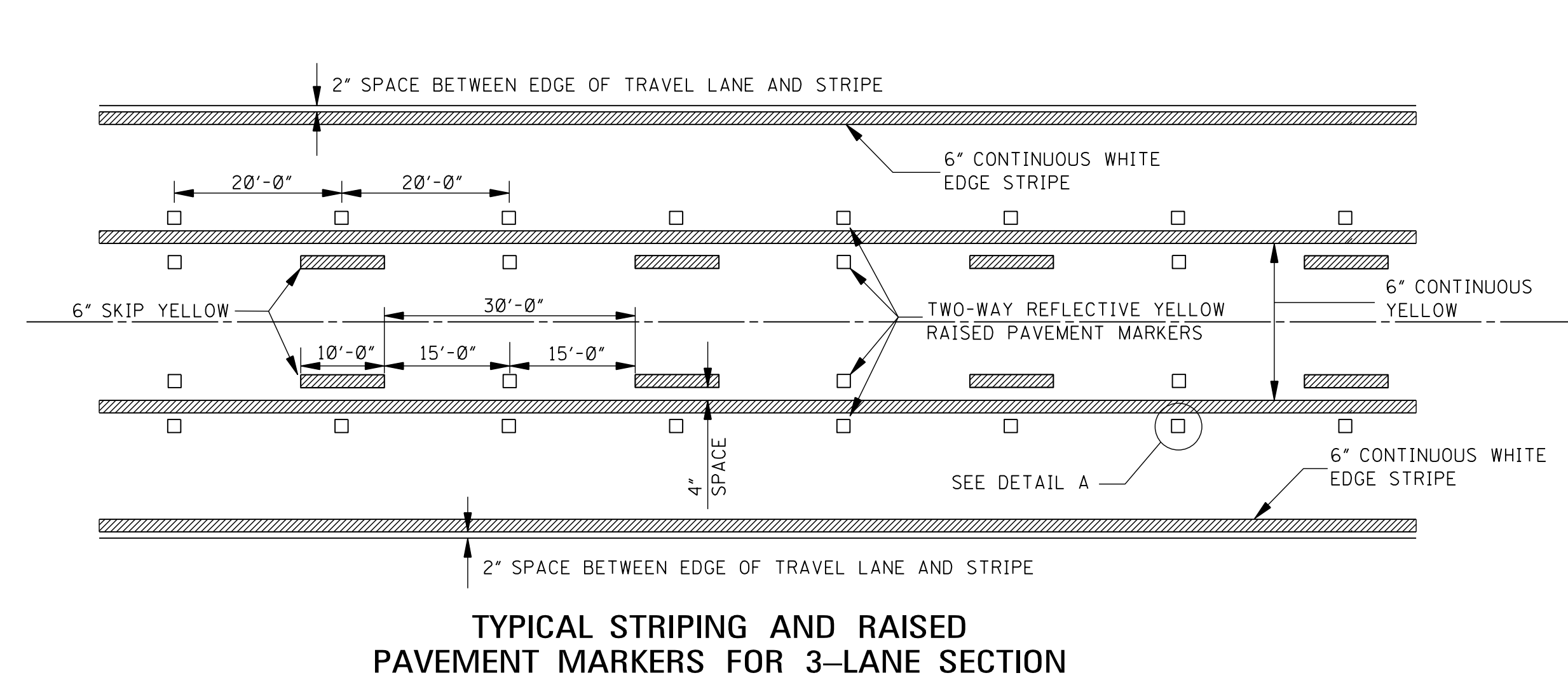
				BY	ELECTRICAL DETAILS PULL-SPLICE BOX DETAIL & SITE LOCATION	
				REVISION		
			DATE	FILENAME: 178-11 Electrical.dwg		WORKING NUMBER EL-2
				CHECKED BY: DBG DATE: Jul 09, 2020		SHEET NUMBER 16.1



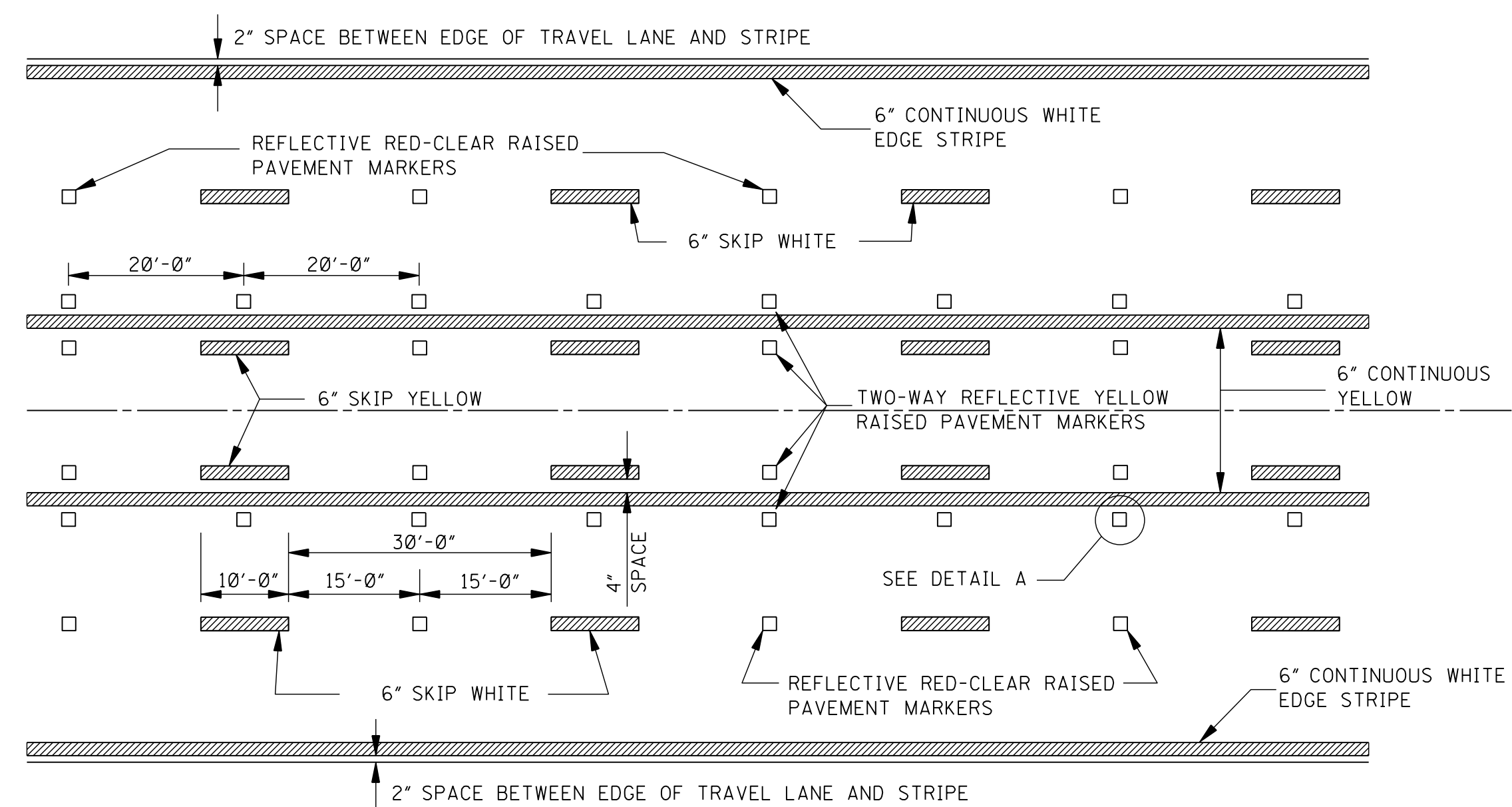
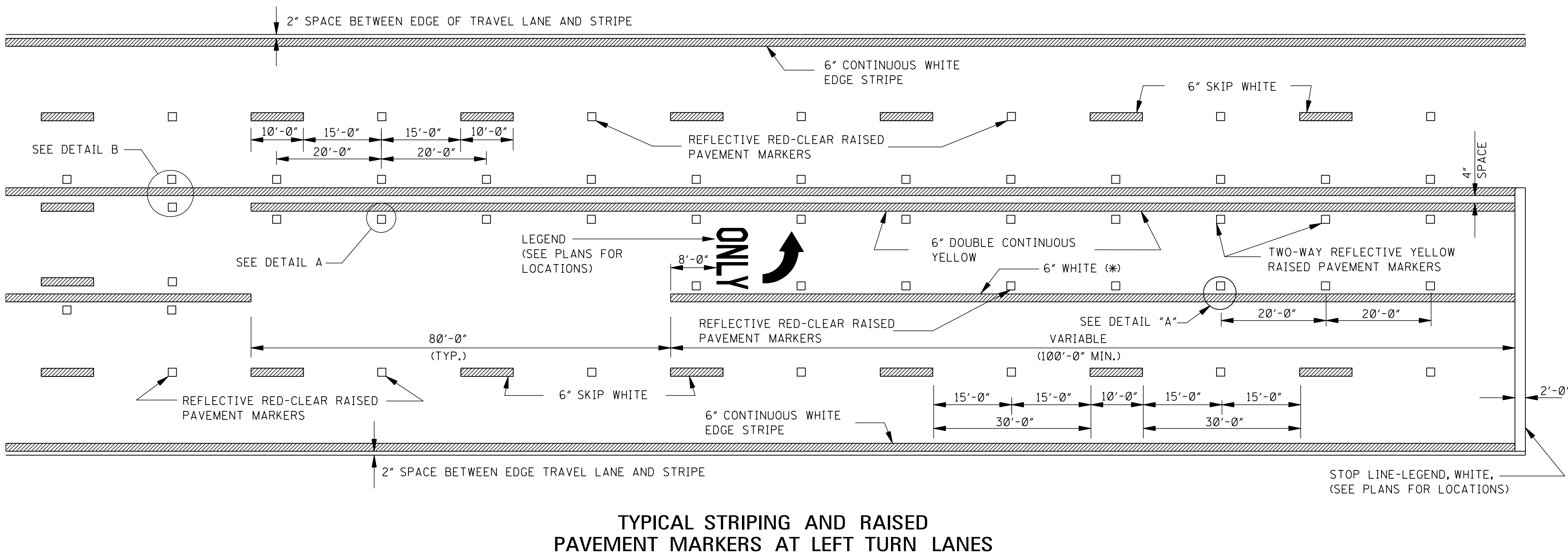
4. PAVEMENT MARKERS SHALL BE HIGH PERFORMANCE REFLECTIVE RAISED PAVEMENT MARKERS AS LISTED IN THE MDOT "APPROVED SOURCES OF MATERIALS."



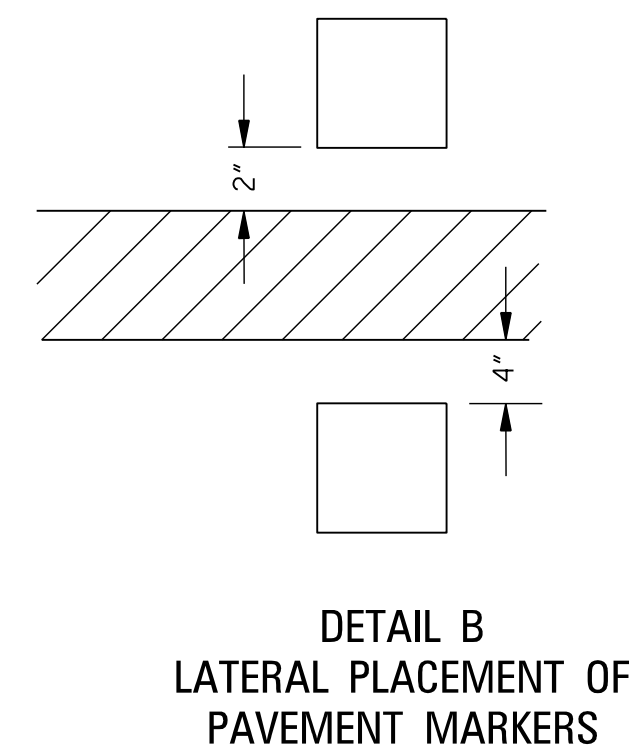
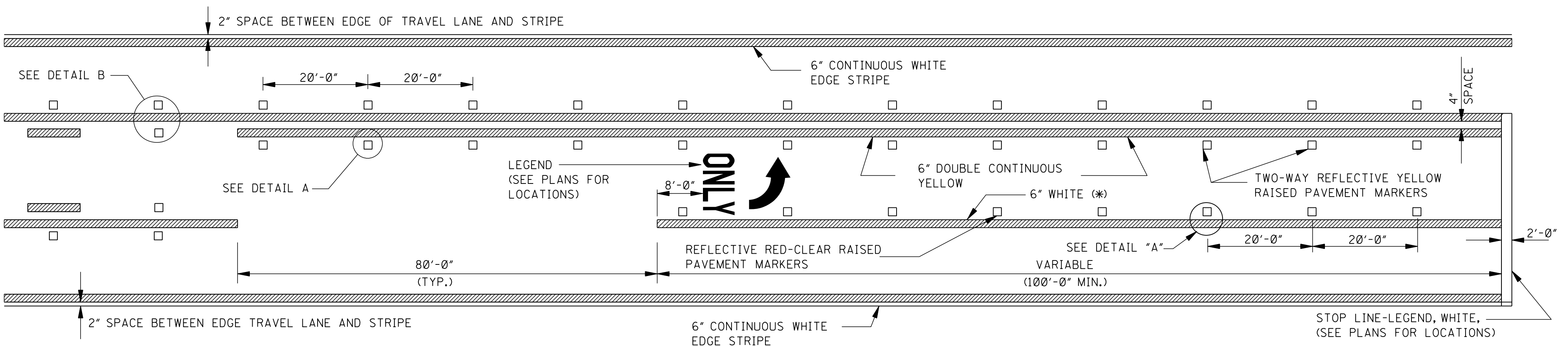
				BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN
				REVISION	PAVEMENT MARKING DETAILS FOR 2-LANE AND 4-LANE DIVIDED ROADWAYS
				DATE	 WORKING NUMBER PM-1 SHEET NUMBER 6051 ISSUE DATE: _____ AUGUST 01, 2017 _____



NOTES: 1. CONSIDER EACH SEGMENT OF CONTINUOUS TWO-WAY LEFT TURN LANE SEPARATELY.
2. IF SEGMENT IS LESS THAN 350', PLACE ONE SET OF ARROWS IN CENTER OF SEGMENT.
3. IF SEGMENT IS GREATER THAN 350', PLACE FIRST SET OF ARROWS 50' TO 100' FROM BEGINNING AND/OR END OF SEGMENT AND SPACE ADDITIONAL SETS OF ARROWS (250' O.C.).

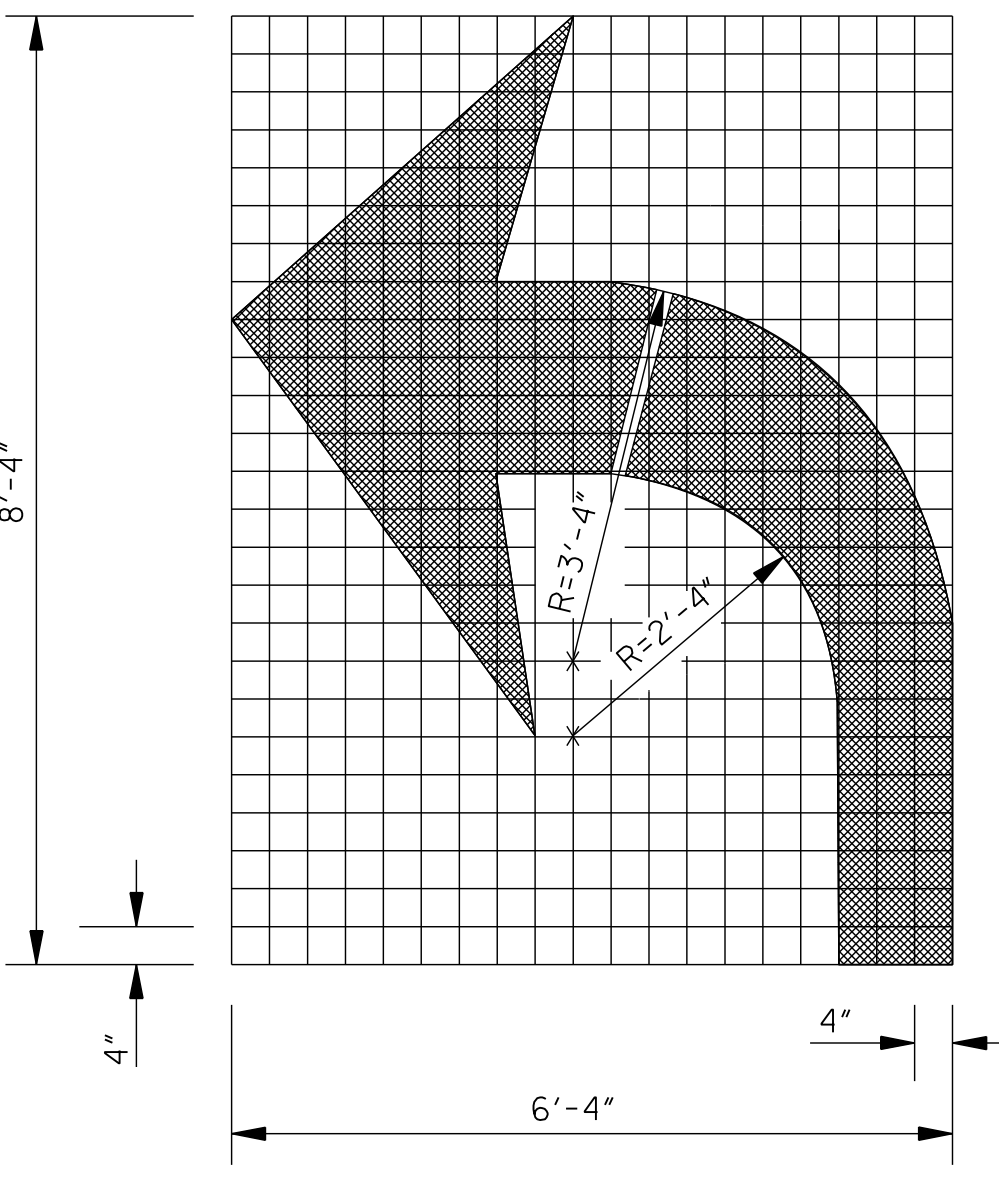
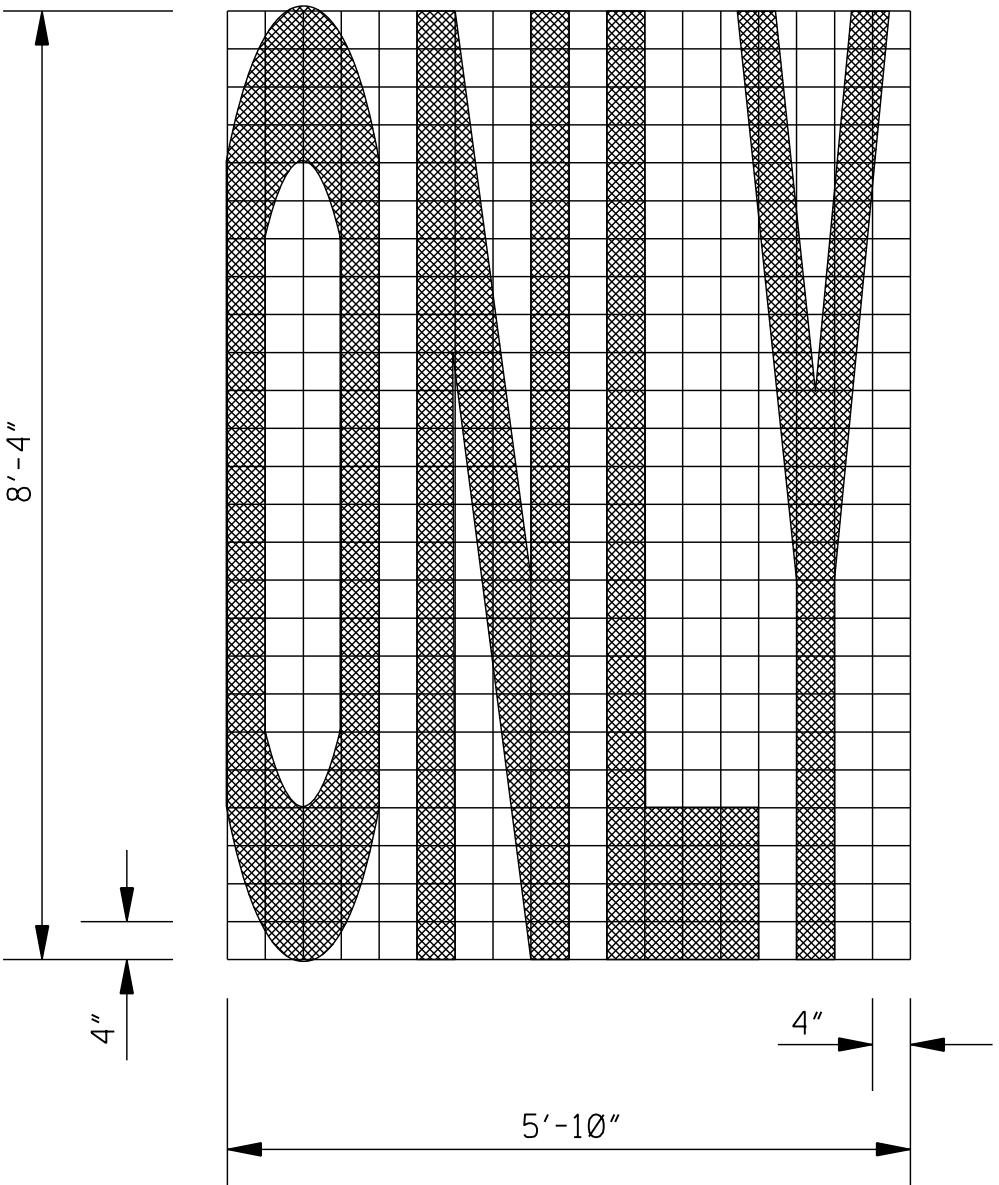


TYPICAL STRIPING AND RAISED PAVEMENT MARKERS FOR 5-LANE SECTION

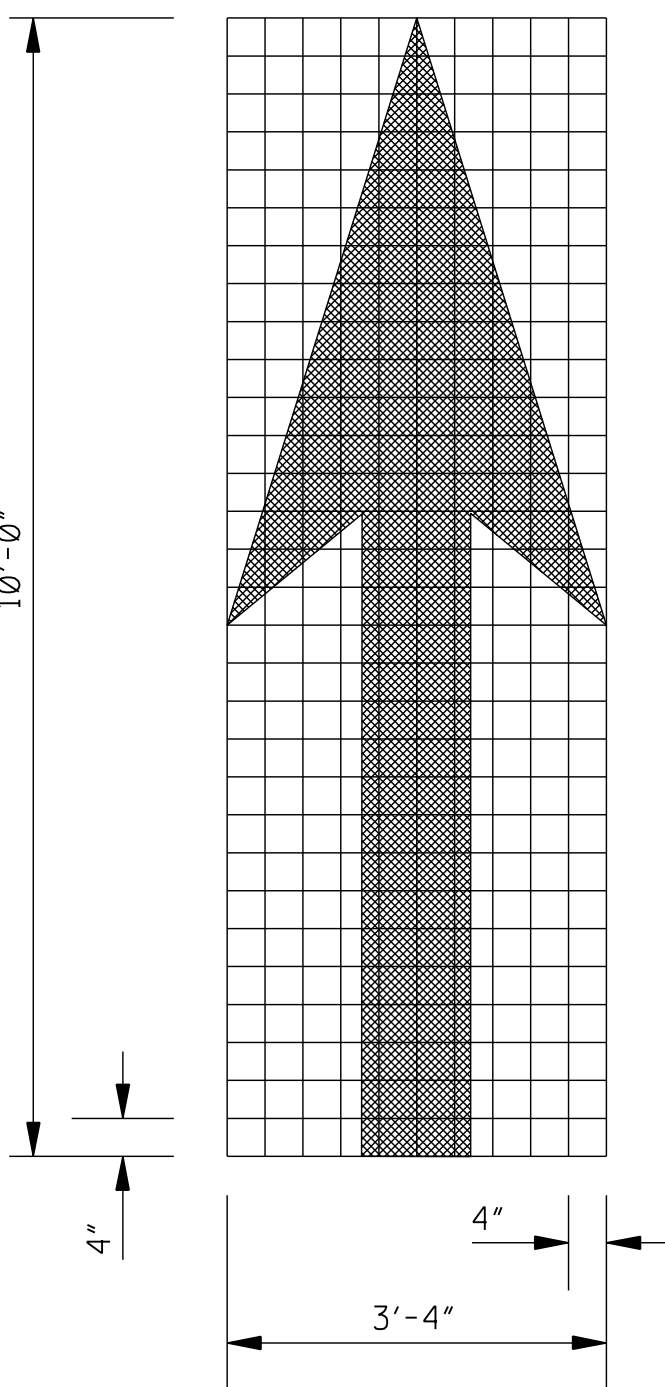


GENERAL NOTE:
1. PAVEMENT MARKERS SHALL BE HIGH PERFORMANCE RAISED PAVEMENT MARKERS AS LISTED IN THE MDOT "APPROVED SOURCES OF MATERIALS".

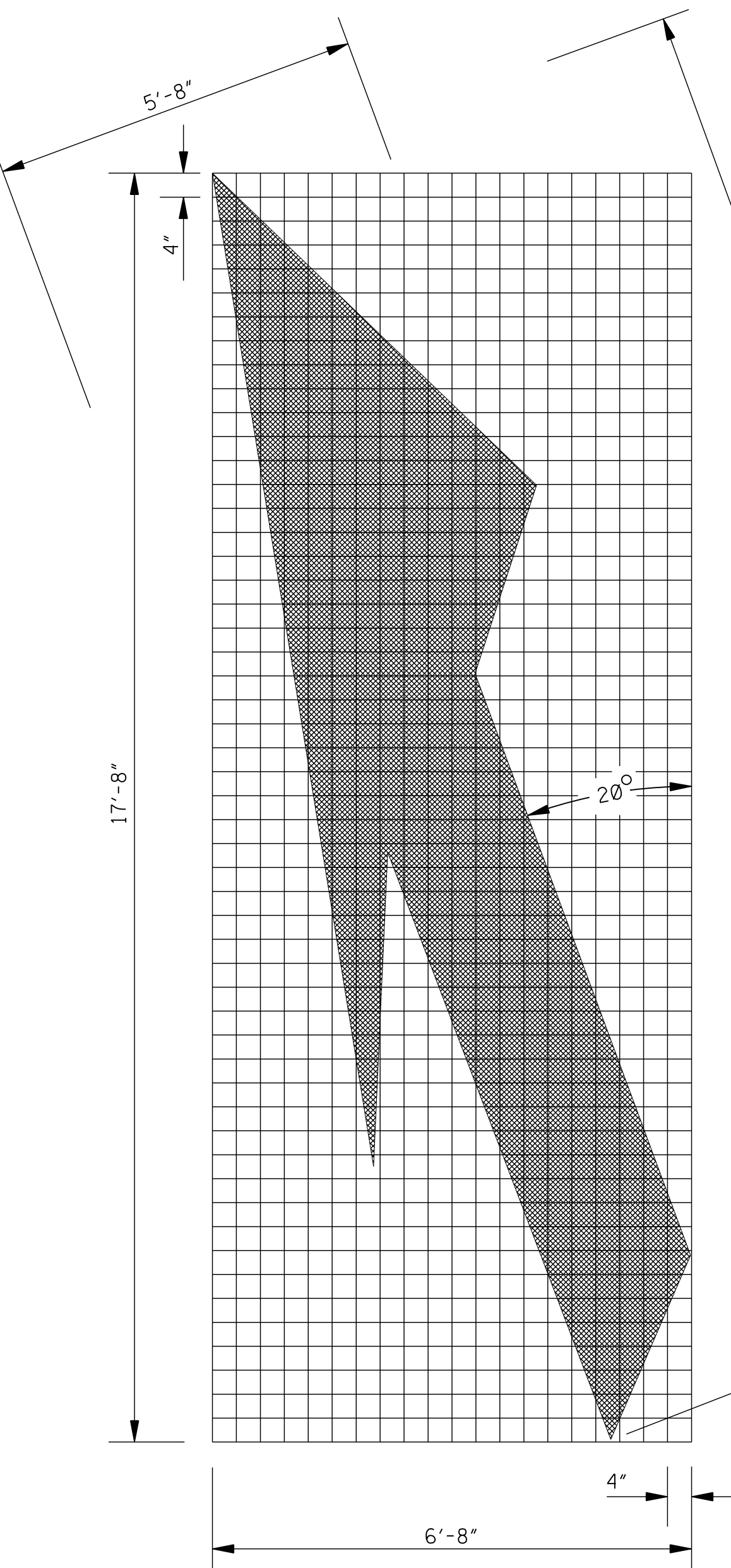
				BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN
				REVISION	PAVEMENT MARKING DETAILS FOR 3-LANE 4-LANE AND 5-LANE UNDIVIDED ROADWAYS
				DATE	ISSUE DATE: AUGUST 01, 2017
					WORKING NUMBER PM-2 SHEET NUMBER 6052



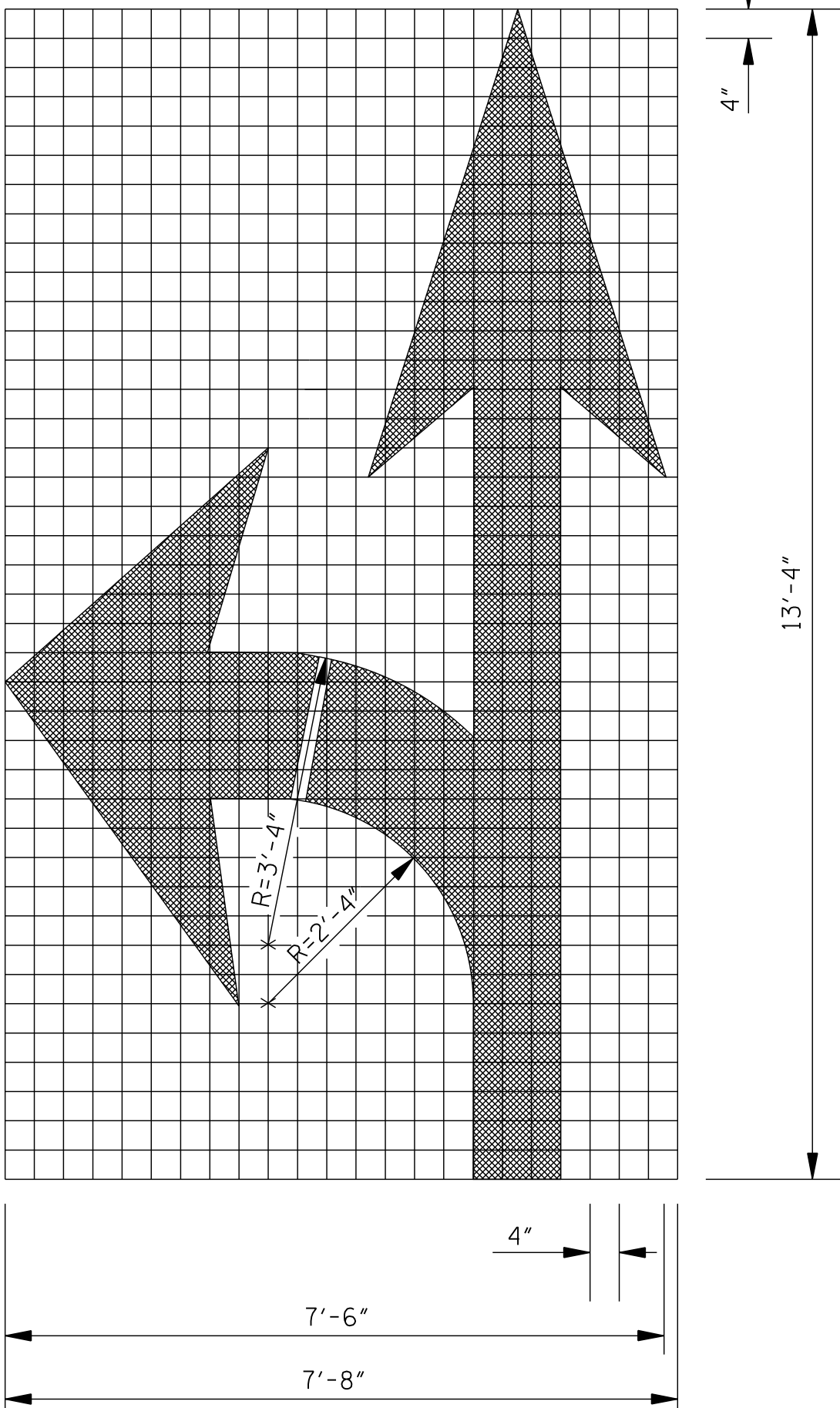
TURN ARROW



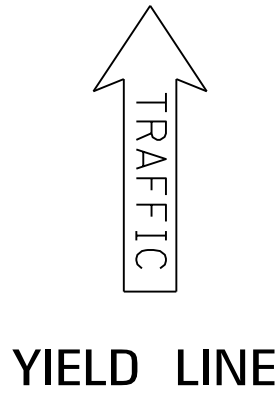
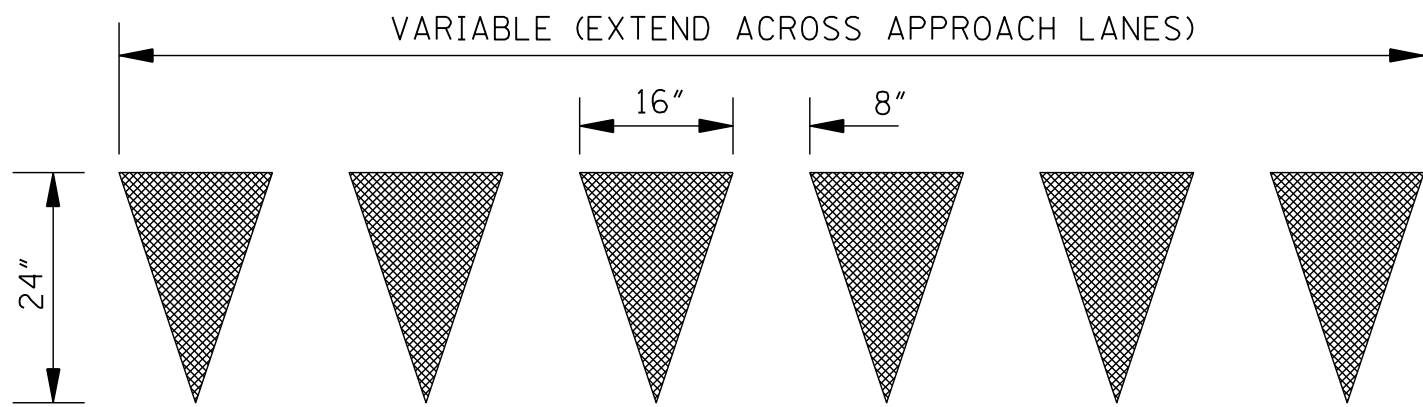
THRU ARROW



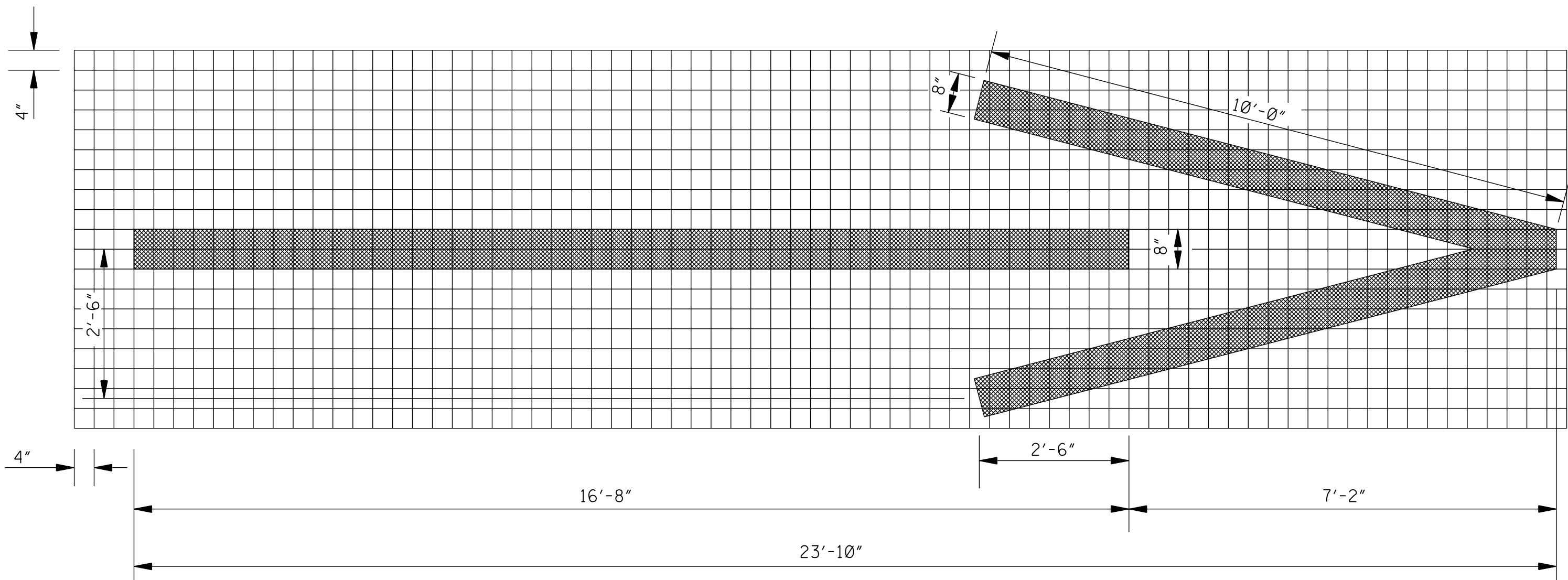
LANE-REDUCTION ARROW



COMBINATION ARROW



YIELD LINE



1-WAY ARROW

- GENERAL NOTES:
1. TWO HORIZONTAL GAPS (CAUSED BY TEMPLATE CONNECTORS) OF 1/2" OR LESS AND EXTENDING THE FULL WIDTH ARE PERMITTED IN EACH LETTER.
 2. FOR OTHER DETAILS, SEE THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
 3. DIMENSIONS OF THE YIELD LINE MAY VARY WITH APPROVAL OF THE ENGINEER. SEE MUTCD, LATEST EDITION, FOR ALLOWABLE DIMENSIONS.
 4. PAY QUANTITIES FOR PAVEMENT MARKING LEGENDS ARE AS FOLLOWS:

PAY QUANTITIES	
LEGEND/SYMBOL	AREA (ft ²)
ONLY	22.0
TURN ARROW	16.4
THRU ARROW	12.3
COMB. ARROW	27.5
1-WAY ARROW	24.3
LANE REDUCTION ARROW	40.0

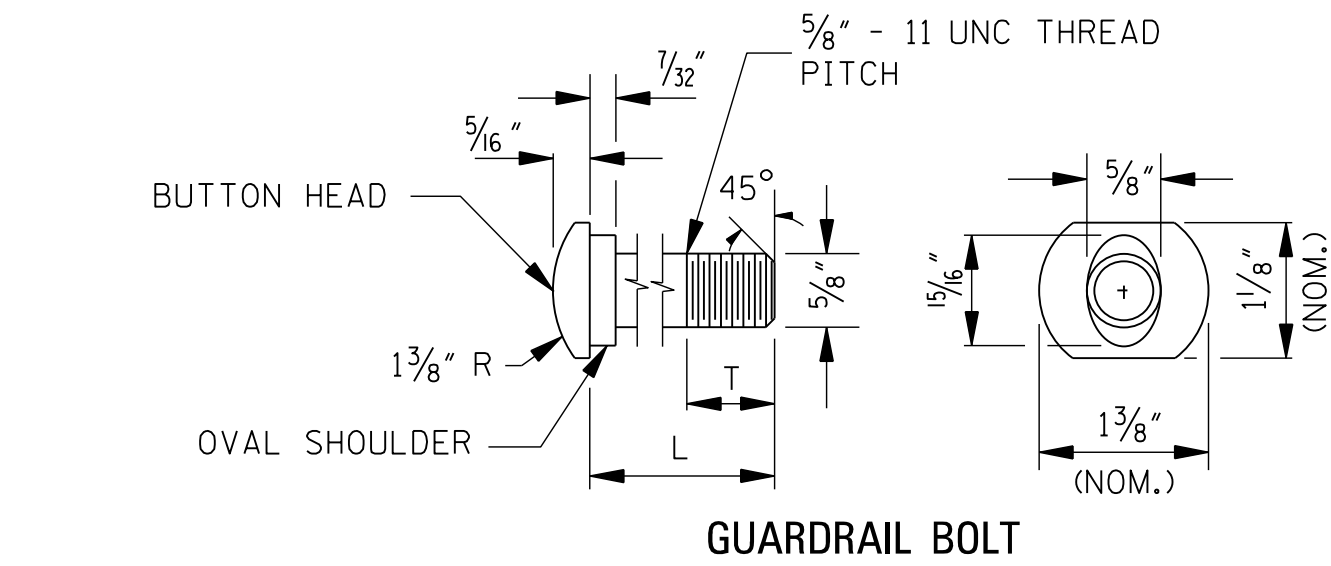
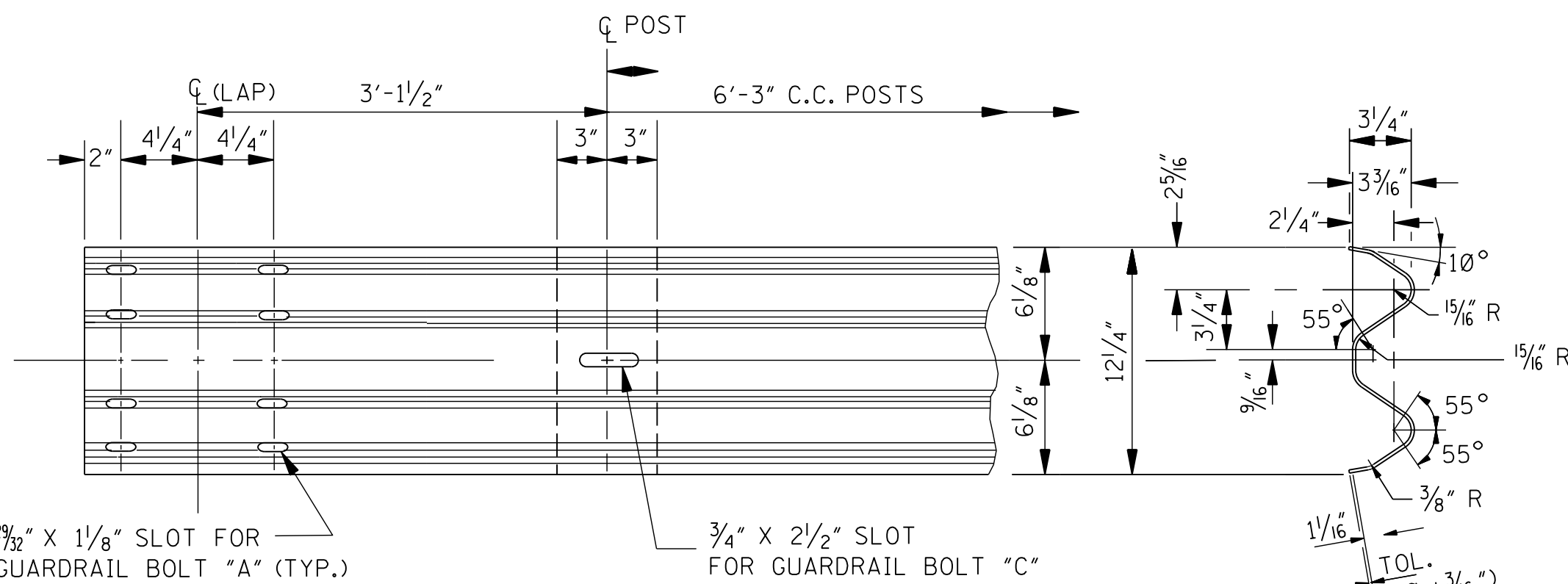
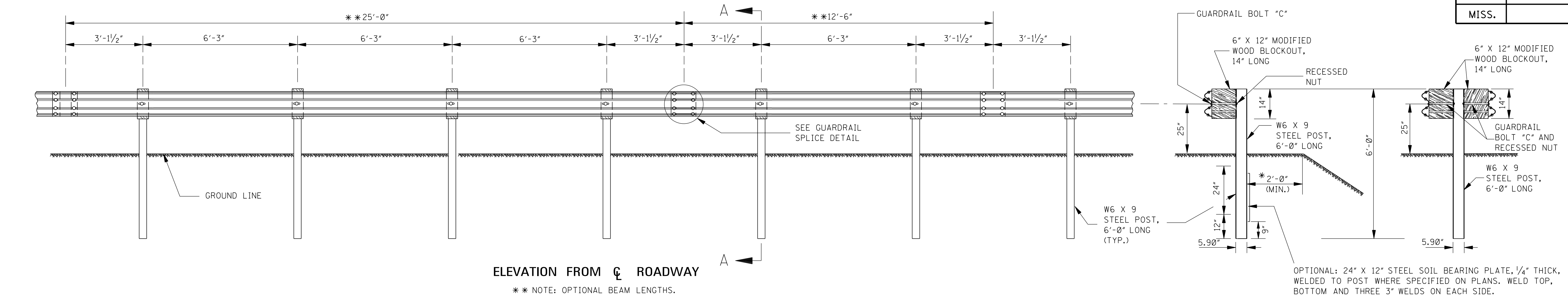
				BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN
				REVISION	
				DATE	ISSUE DATE: AUGUST 01, 2017

**PAVEMENT MARKING
LEGEND DETAILS**

MDOT
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

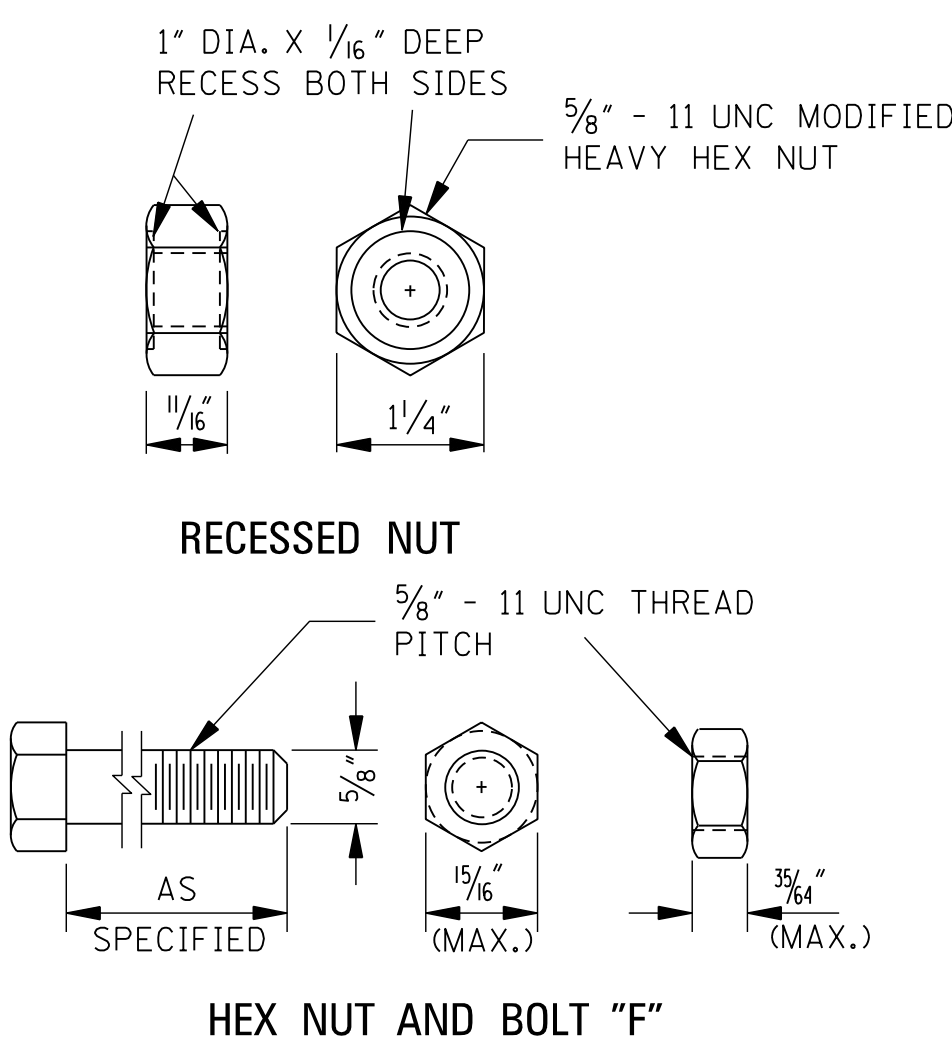
WORKING NUMBER
PM-6

SHEET NUMBER
6056

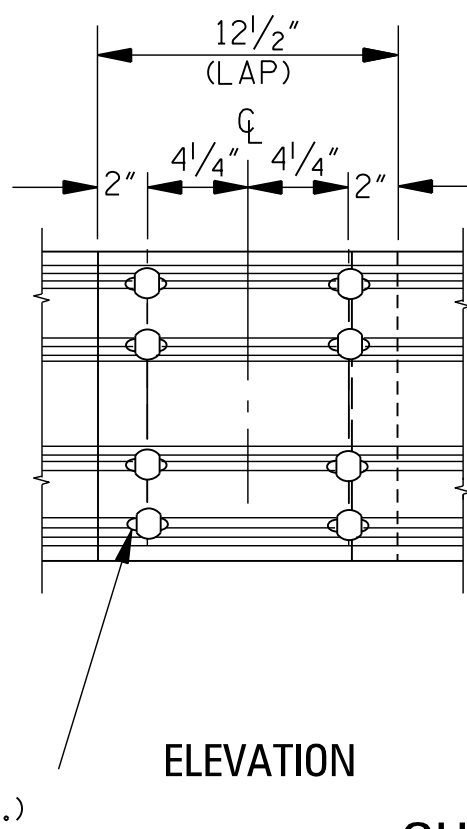


GUARDRAIL BOLTS		
BOLT	L	T (MIN.)
"A"	1 1/4"	1"
"B"	12"	4"
"C"	14"	4"

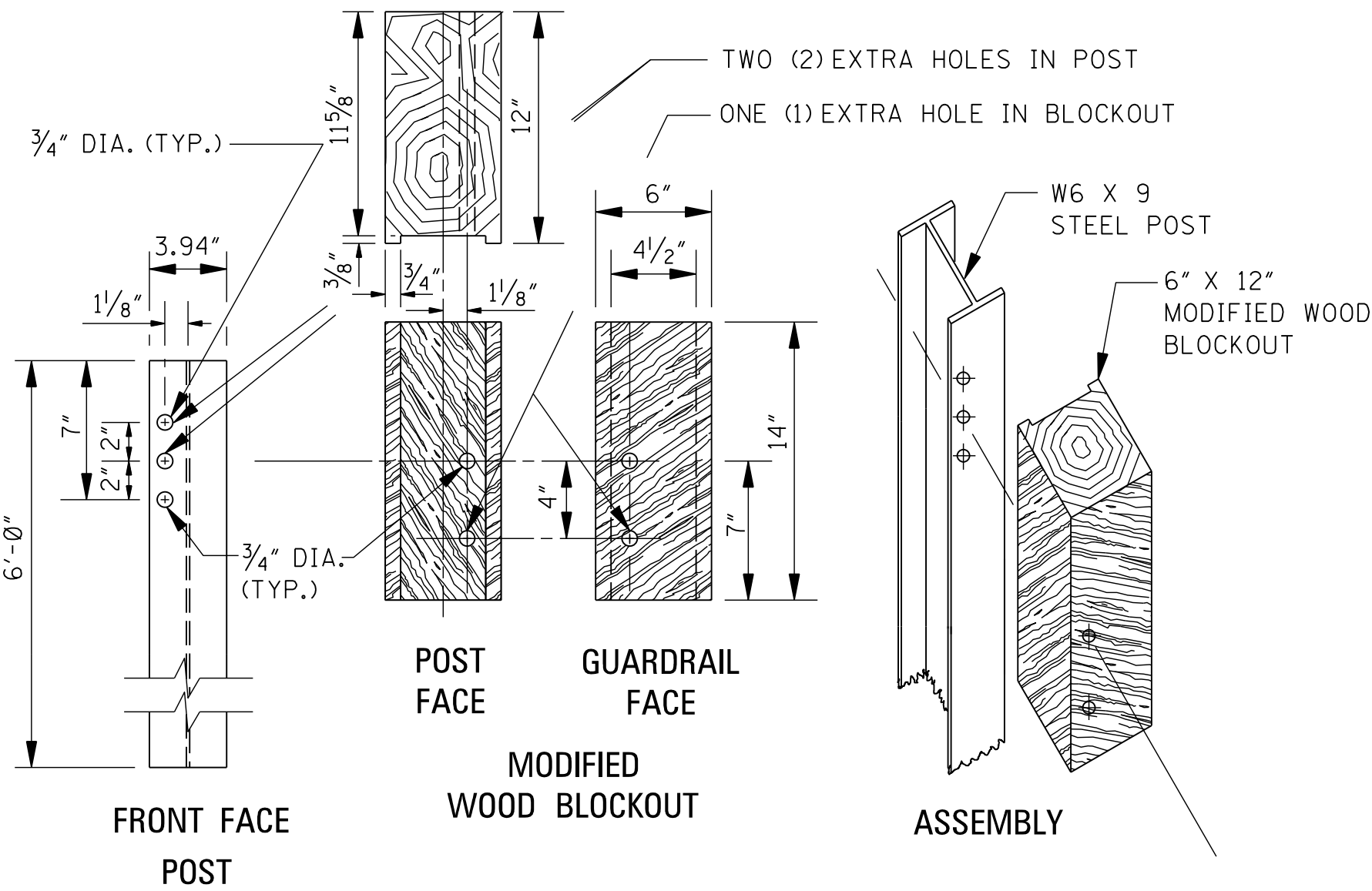
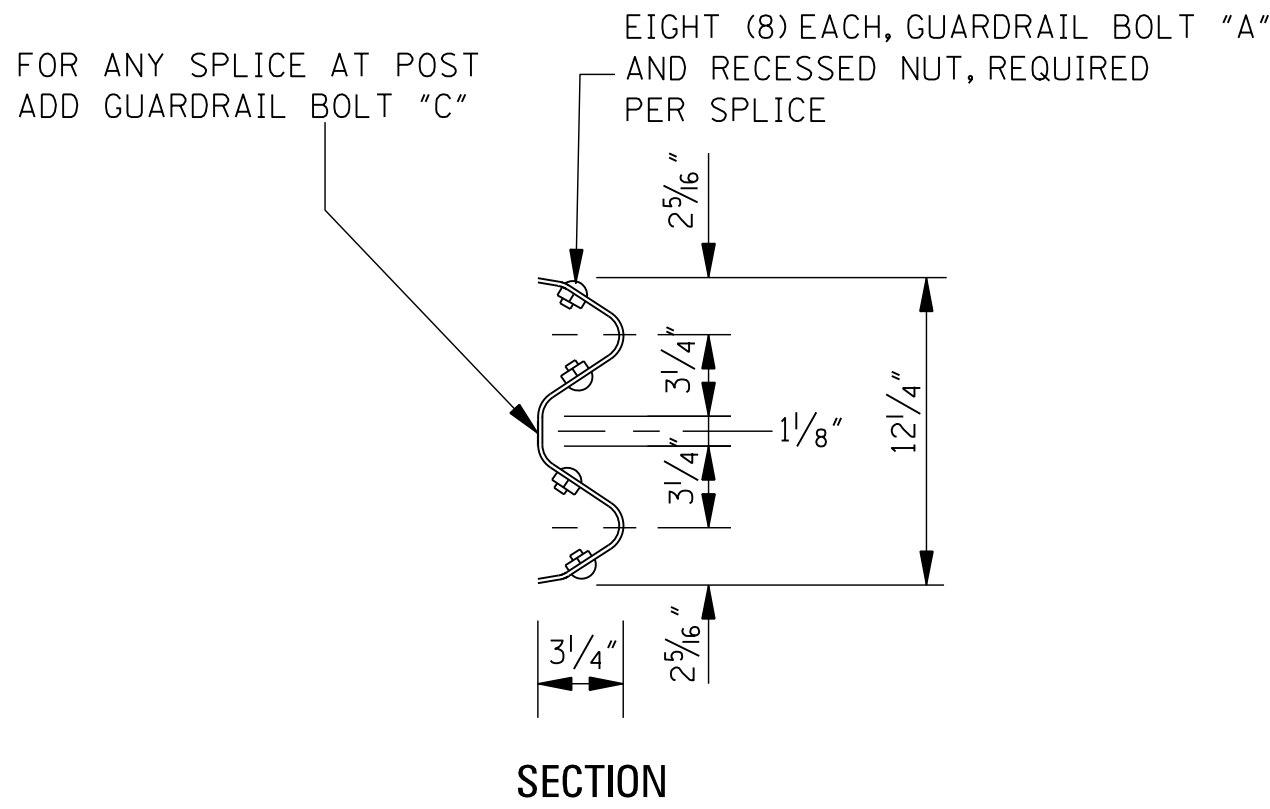
- NOTES:
- ALL GUARDRAIL BOLTS ARE 5/8" - 11 UNC THREAD PITCH.
 - IF ANY BOLT EXTENDS MORE THAN 1/4" FROM THE NUT, THE BOLT SHOULD BE TRIMMED BACK.



FASTENER DETAILS



GUARDRAIL SPLICE DETAIL



- NOTES:
- ON INITIAL INSTALLATION, THE MODIFIED WOOD BLOCKOUT SHALL BE FASTENED TO THE BOTTOM HOLE IN THE STEEL POST. OTHER HOLES IN THE STEEL POST AND THE MODIFIED WOOD BLOCKOUT ARE FOR FUTURE 2" HEIGHT ADJUSTMENTS WHEN THE ROADWAY IS RESURFACED.
 - AN ADDITIONAL GUARDRAIL BOLT "C" AND RECESSED NUT IS REQUIRED FOR THE SECOND HEIGHT ADJUSTMENT.
 - HOLE DETAILS ARE REQUIRED ON ALL STEEL POSTS AND MODIFIED WOOD BLOCKOUTS.
 - STEEL POSTS ARE FABRICATED FROM W6 X 9 STRUCTURAL STEEL SHAPES.
 - MODIFIED WOOD BLOCKOUTS ARE FABRICATED FROM 6" X 12" TREATED TIMBER UNLESS SPECIFIED OTHERWISE ON THE PLANS.
 - ALL HOLES IN BOTH STEEL POSTS AND MODIFIED WOOD BLOCKOUTS ARE 3/4" IN DIAMETER.

SINGLE-FACED BARRIER DOUBLE-FACED BARRIER

SECTION A-A

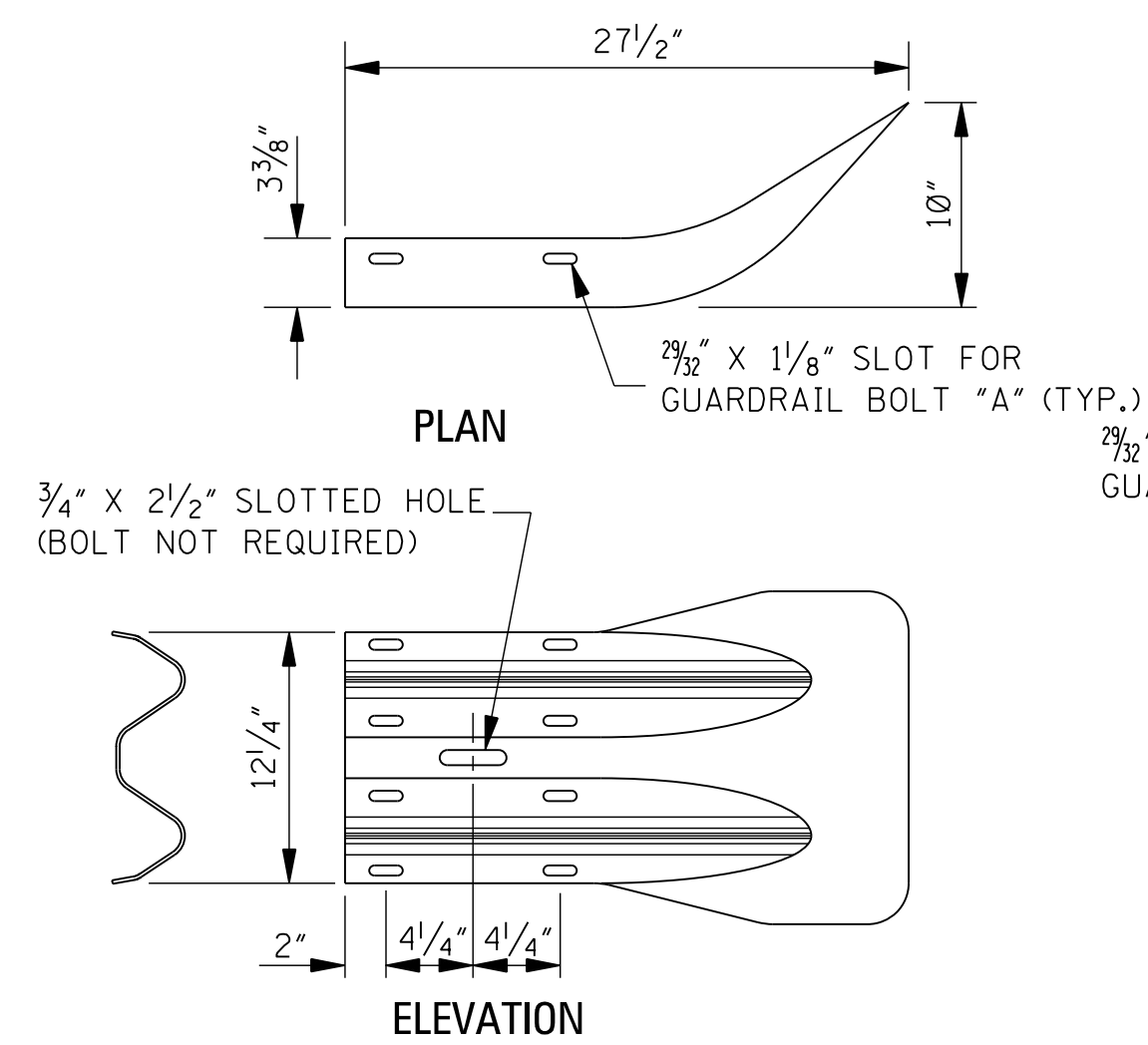
* NOTE: UNLESS SPECIFIED OTHERWISE ON THE PLANS.

- GENERAL NOTES:
- GUARDRAIL SHALL MEET THE REQUIREMENTS OF AASHTO M 180, CLASS A, TYPE 1 UNLESS OTHERWISE DESIGNATED.
 - GUARDRAIL SHALL BE SINGLE FACED UNLESS OTHERWISE DESIGNATED.
 - GUARDRAIL SECTIONS SHALL BE LAPPED IN THE DIRECTION OF TRAFFIC FLOW FOR THE LANE NEAREST THE GUARDRAIL. THE ONLY EXCEPTION NOTED IS THAT GUARDRAIL SHALL BE LAPPED FOR APPROACHING TRAFFIC ON A BRIDGE WITH 2-WAY TRAFFIC.
 - STEEL POSTS SHALL CONFORM TO ASTM A36 (EXCEPT ULTRASONIC TESTING). THEY SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M 111 EXCEPT WHEN CORROSION RESISTANT STEEL IS REQUIRED IN WHICH CASE POSTS SHALL CONFORM TO AASHTO SPECIFICATIONS FOR CORROSION RESISTANCE AND SHALL NOT BE PAINTED OR GALVANIZED. NO PUNCHING, DRILLING OR CUTTING WILL BE PERMITTED AFTER GALVANIZING EXCEPT FOR HOLES TO MOUNT GUARDRAIL DELINEATORS.
 - ALL MODIFIED WOOD BLOCKOUTS SHALL BE TREATED TIMBER IN ACCORDANCE WITH MISSISSIPPI DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
 - FOR OTHER DETAILS OF POSTS, POST ACCESSORIES, FASTENERS & RAIL ELEMENTS, SEE AASHTO-AGC-ARTBA JOINT TASK FORCE NO. 13, TITLED "A GUIDE TO STANDARDIZED HIGHWAY BARRIER HARDWARE," LATEST EDITION.

				BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN
				REVISION	GUARDRAIL: "W" BEAM (STEEL POSTS)
				DATE	ISSUE DATE: AUGUST 01, 2017

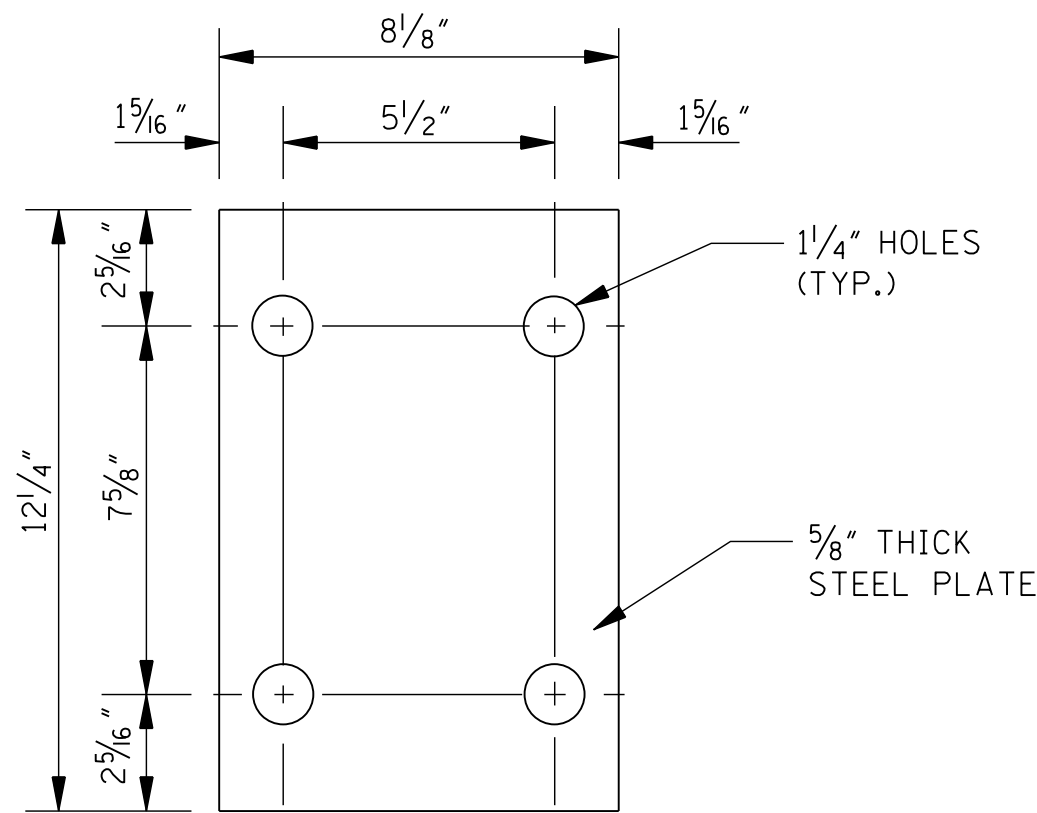
 MISSISSIPPI DEPARTMENT OF TRANSPORTATION
WORKING NUMBER GR-1B
SHEET NUMBER 6203

STATE	PROJECT NO.
MISS.	

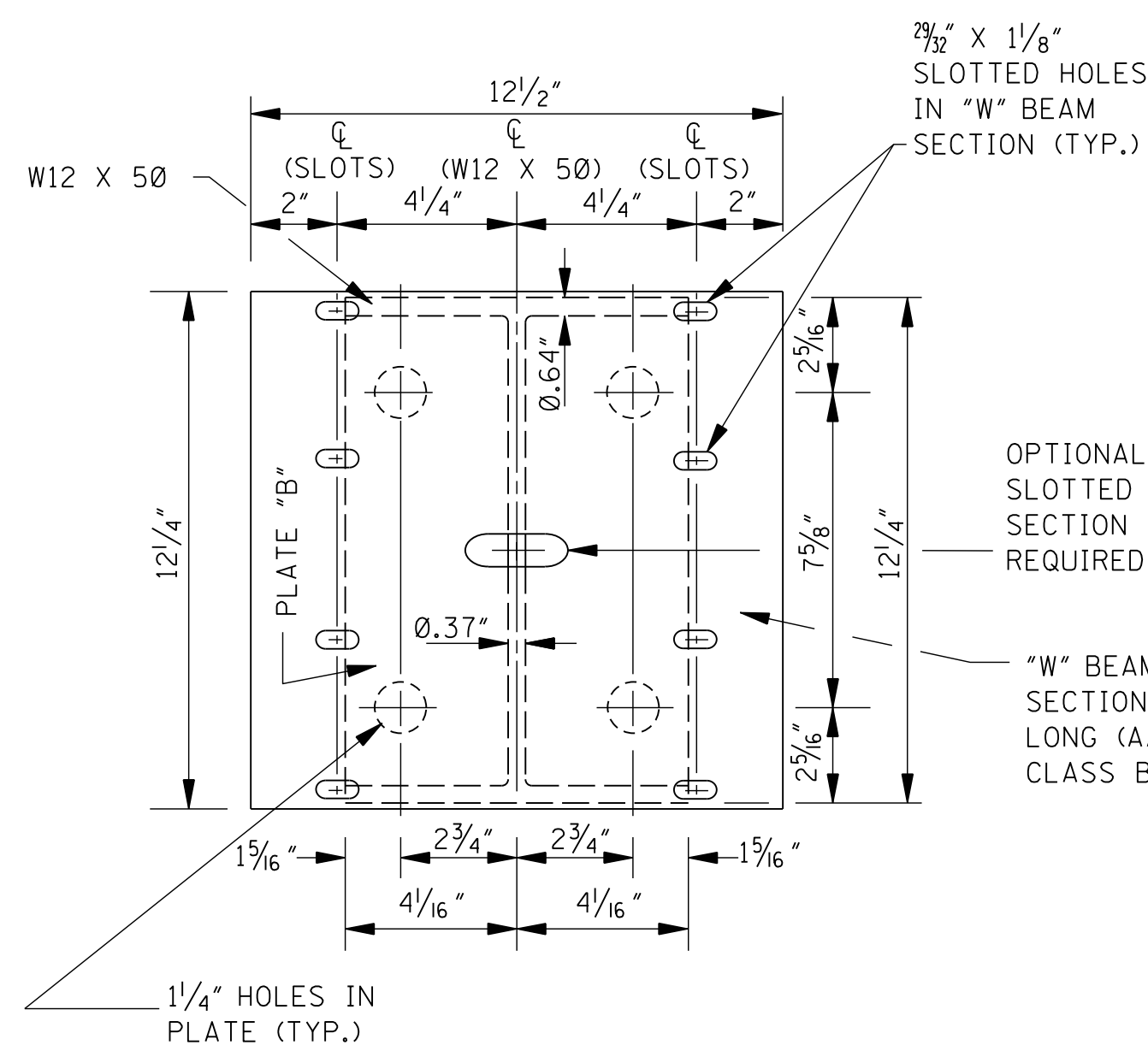


TYPE "1" "W" BEAM END SECTION

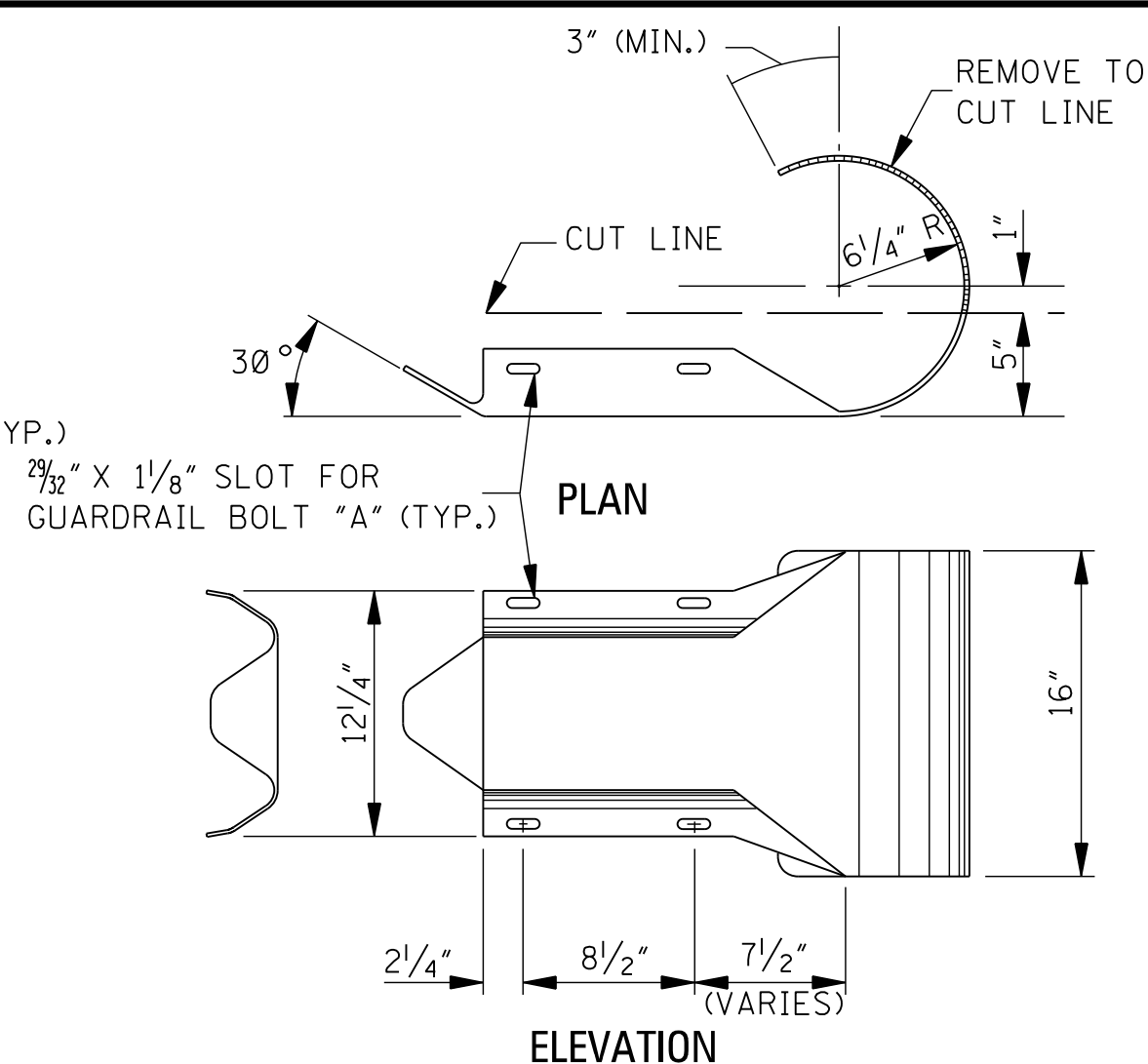
NOTE: THE TYPE "1" END SECTION IS THE STANDARD FLARED "W" BEAM END SECTION AND IS USED WITH THE TYPE "A" AND TYPE "E" BRIDGE END SECTIONS. THE CROSS-SECTIONAL DIMENSIONS OF THIS PART ARE IDENTICAL TO THOSE OF THE STANDARD "W" BEAM GUARDRAIL.



DETAIL OF PLATE "B"

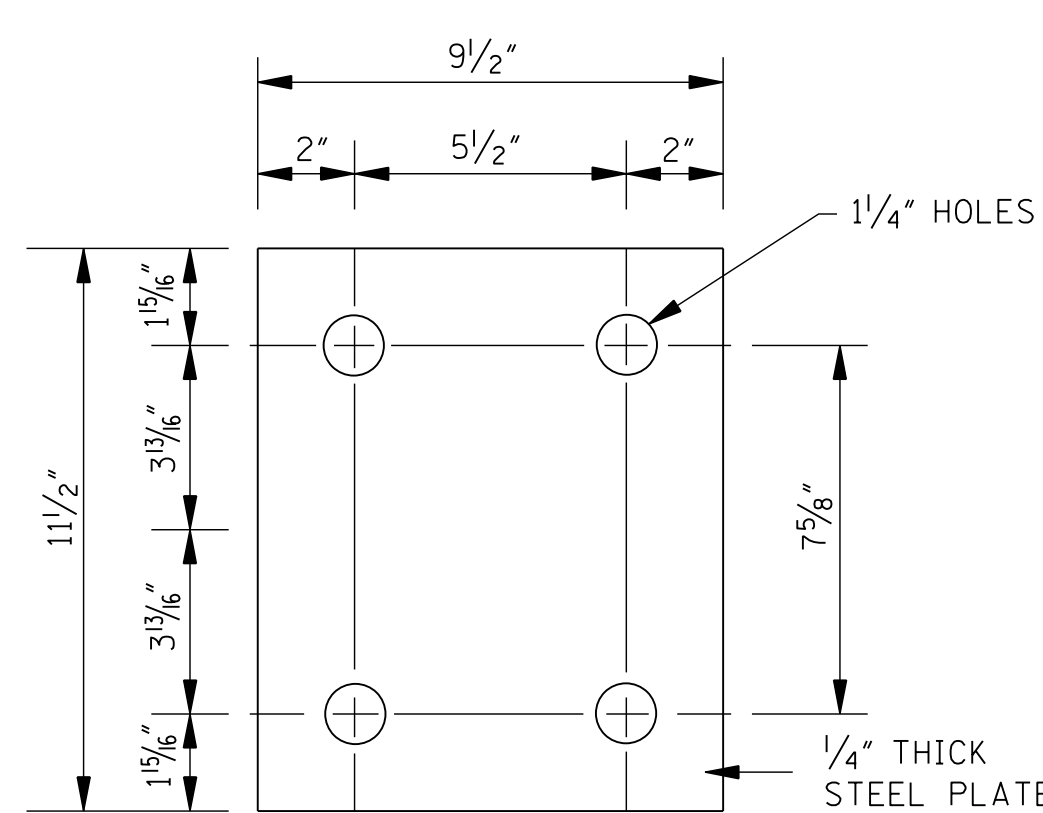


FACE ELEVATION

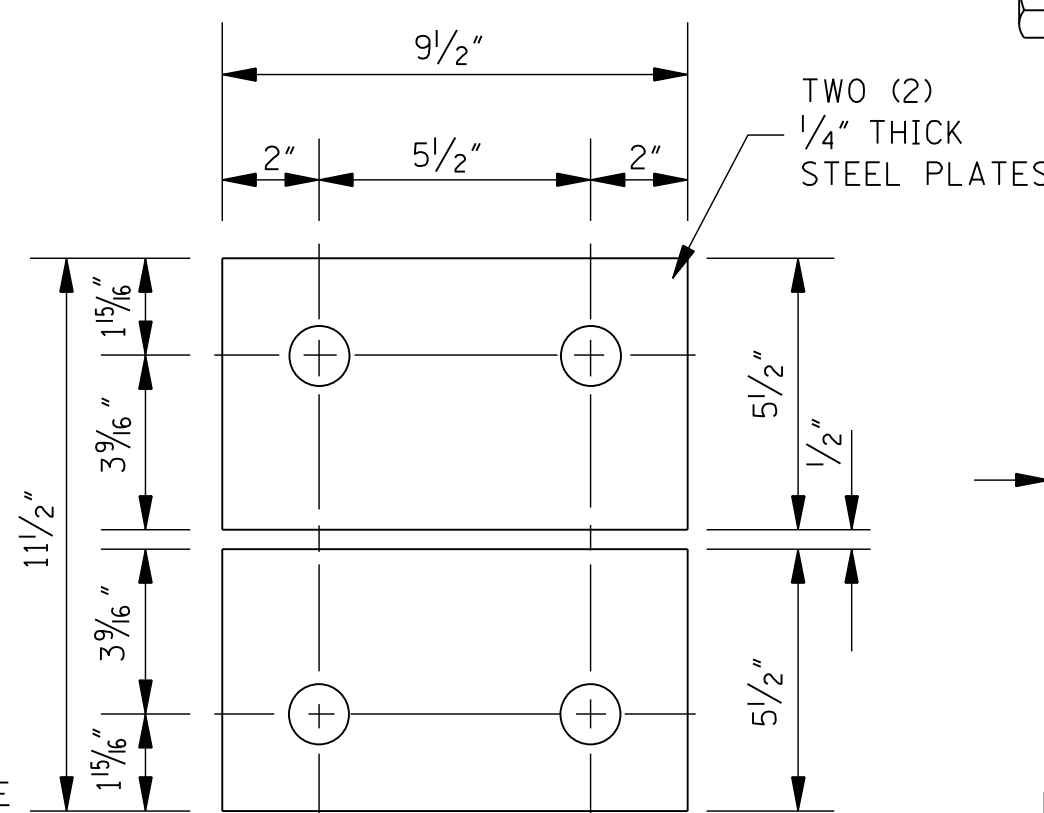


TYPE "2" "W" BEAM END SECTION

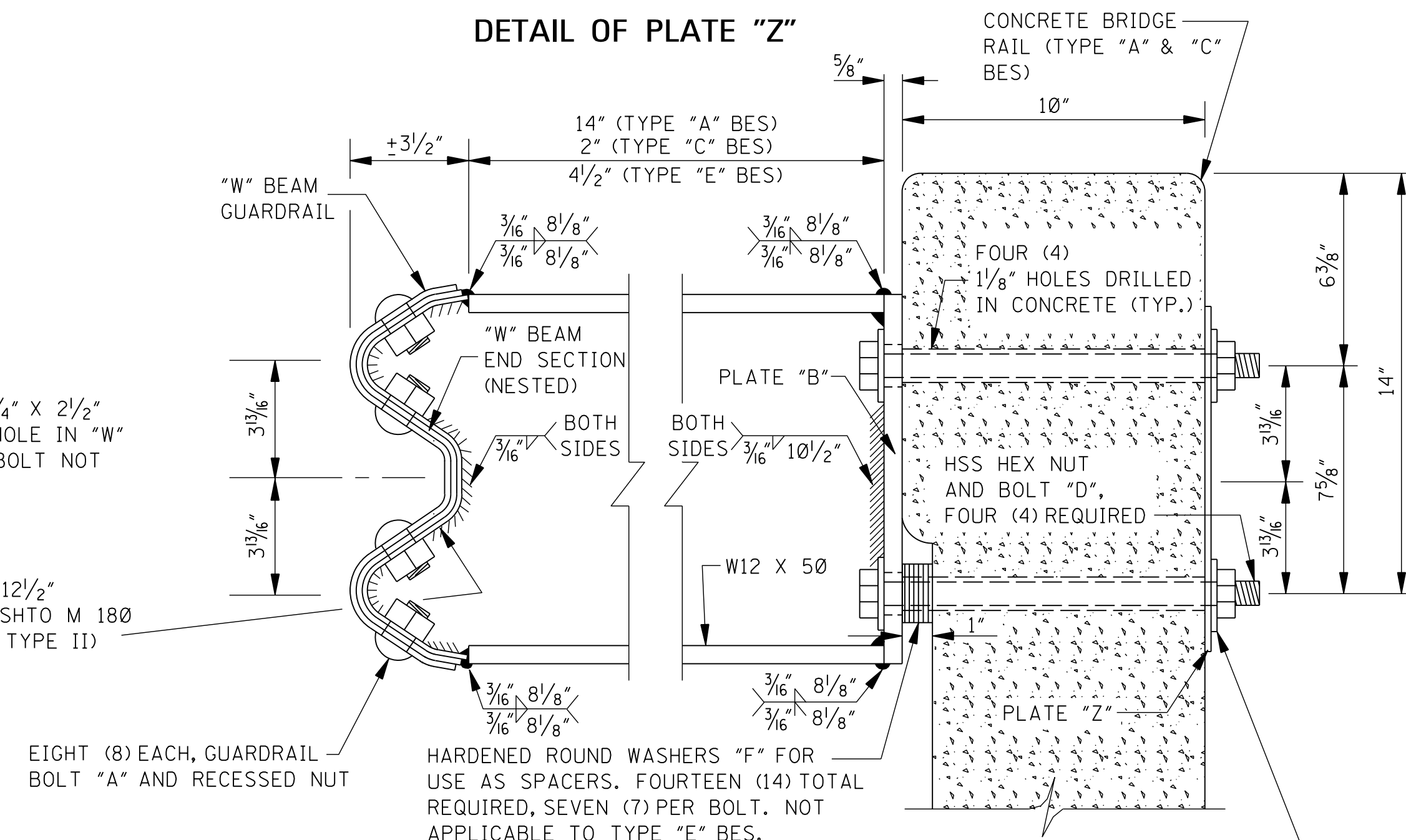
NOTE: THE TYPE "2" END SECTION IS A MODIFICATION OF THE STANDARD ROUNDED "W" BEAM END SECTION AND IS USED EXCLUSIVELY WITH THE TYPE "C" BRIDGE END SECTION. THE CROSS-SECTIONAL DIMENSIONS OF THIS PART ARE IDENTICAL TO THOSE OF THE STANDARD "W" BEAM GUARDRAIL.



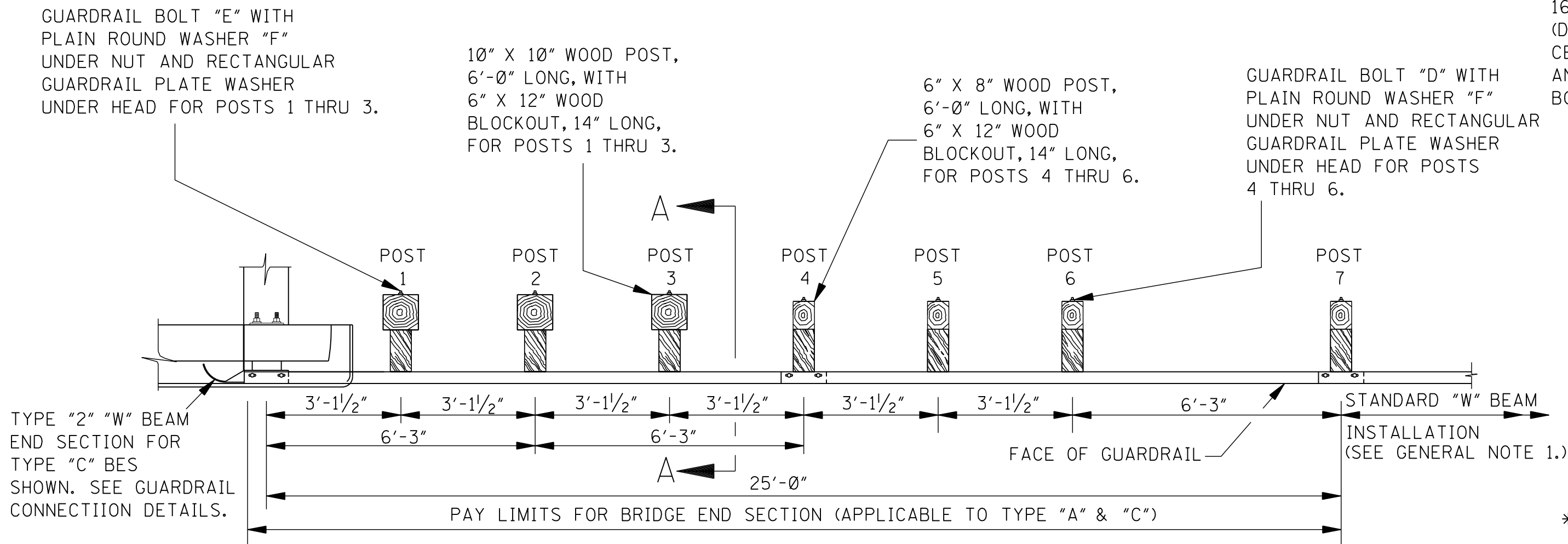
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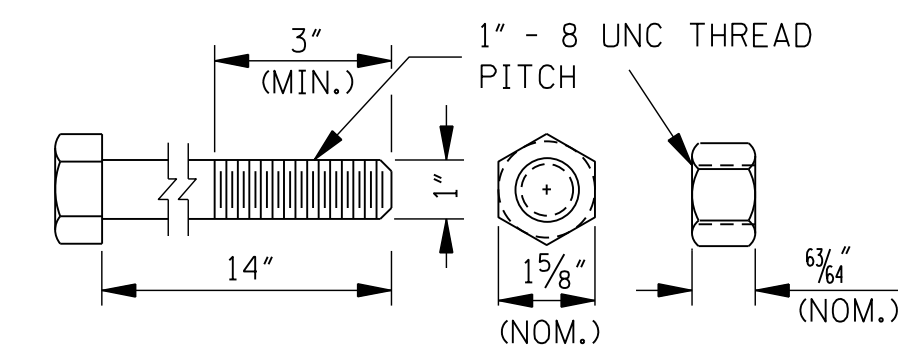
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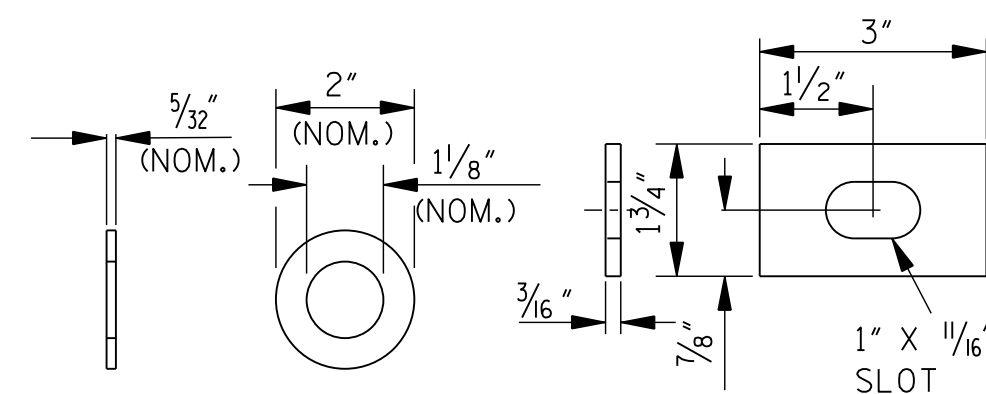
SECTION



PLAN OF BRIDGE END SECTION



HIGH-STRENGTH STRUCTURAL HEX NUT AND BOLT "D" (ASTM A 325)



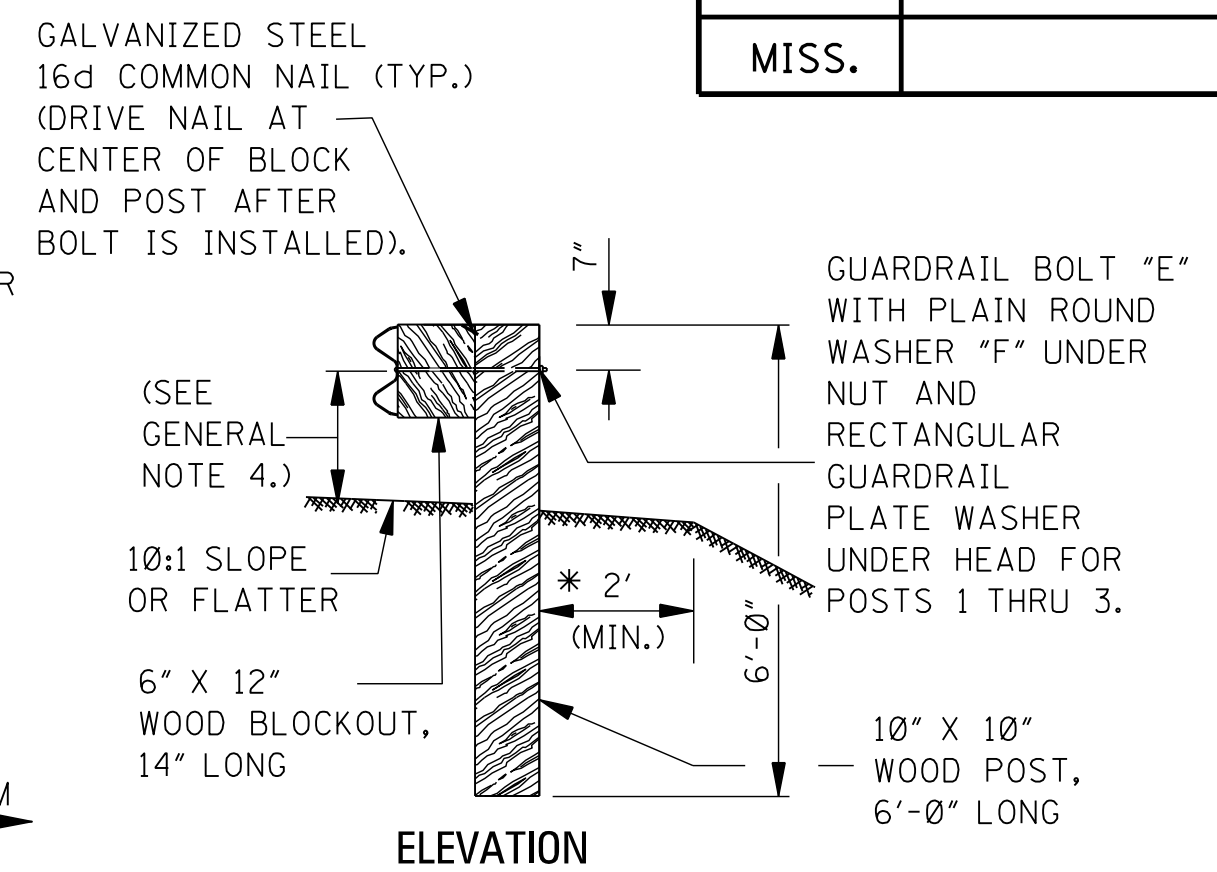
HARDENED ROUND
WASHER "F"

RECTANGULAR
GUARDRAIL
PLATE WASHER

FASTENER DETAILS

GENERAL NOTES:

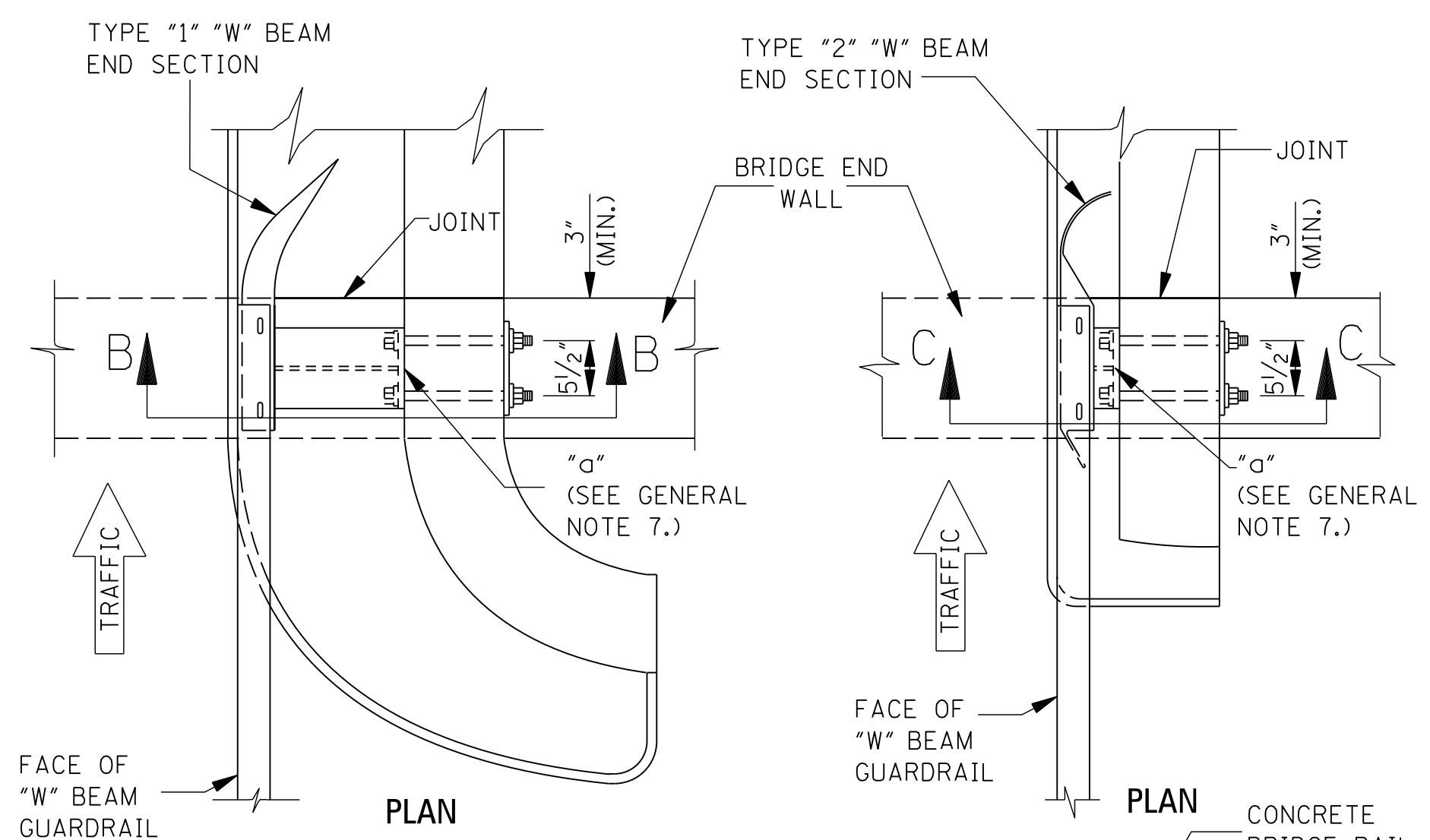
1. ALL NOTES AND DETAILS PERTAINING TO NORMAL "W" BEAM GUARDRAIL INSTALLATION NOT SPECIFICALLY MODIFIED ON THIS SHEET WILL BE FOUND ON EITHER SHEET GR-1 (WOOD POSTS) OR GR-1B (STEEL POSTS).
2. WOOD POSTS ARE SHOWN ON THIS SHEET. WHEN STEEL POSTS ARE INSTALLED, A SOIL BEARING PLATE IS PLACED ON THE STANDARD SIZE STEEL POST FOR POSTS 1 THRU 3 AND A RECTANGULAR GUARDRAIL PLATE WASHER IS PLACED UNDER THE STANDARD POST BOLT HEAD FOR POSTS 1 THRU 6. SEE DETAILS FOR STEEL POST INSTALLATIONS ON SHEET GR-1B.
3. FOR INFORMATION PERTAINING TO THE INSTALLATION OF THE TYPE "E" BRIDGE END SECTION, SEE SHEET GR-2A.
4. THE HEIGHT OF RAIL AT THE BRIDGE END IS 20 $\frac{1}{8}$ " AND WILL BE TRANSITIONED TO 25" AT POST 7.
5. ALL GUARDRAIL ELEMENTS SHALL BE LAPPED IN THE DIRECTION OF TRAFFIC.
6. POINT "G", WHICH IS AT THE CENTERLINE BETWEEN THE ANCHOR BOLTS, WILL BE CENTERED OVER THE CENTERLINE OF THE BRIDGE END WALL EXCEPT IN SKEWED BRIDGE ENDS WHERE THE BOLT NEAREST THE JOINT WILL BE A MINIMUM OF 3" FROM THE JOINT.



ELEVATION

SECTION A-A

*NOTE: UNLESS OTHERWISE SPECIFIED ON THE PLANS.



BEAM
JARDRAIL

PLAN

SECTION B-B

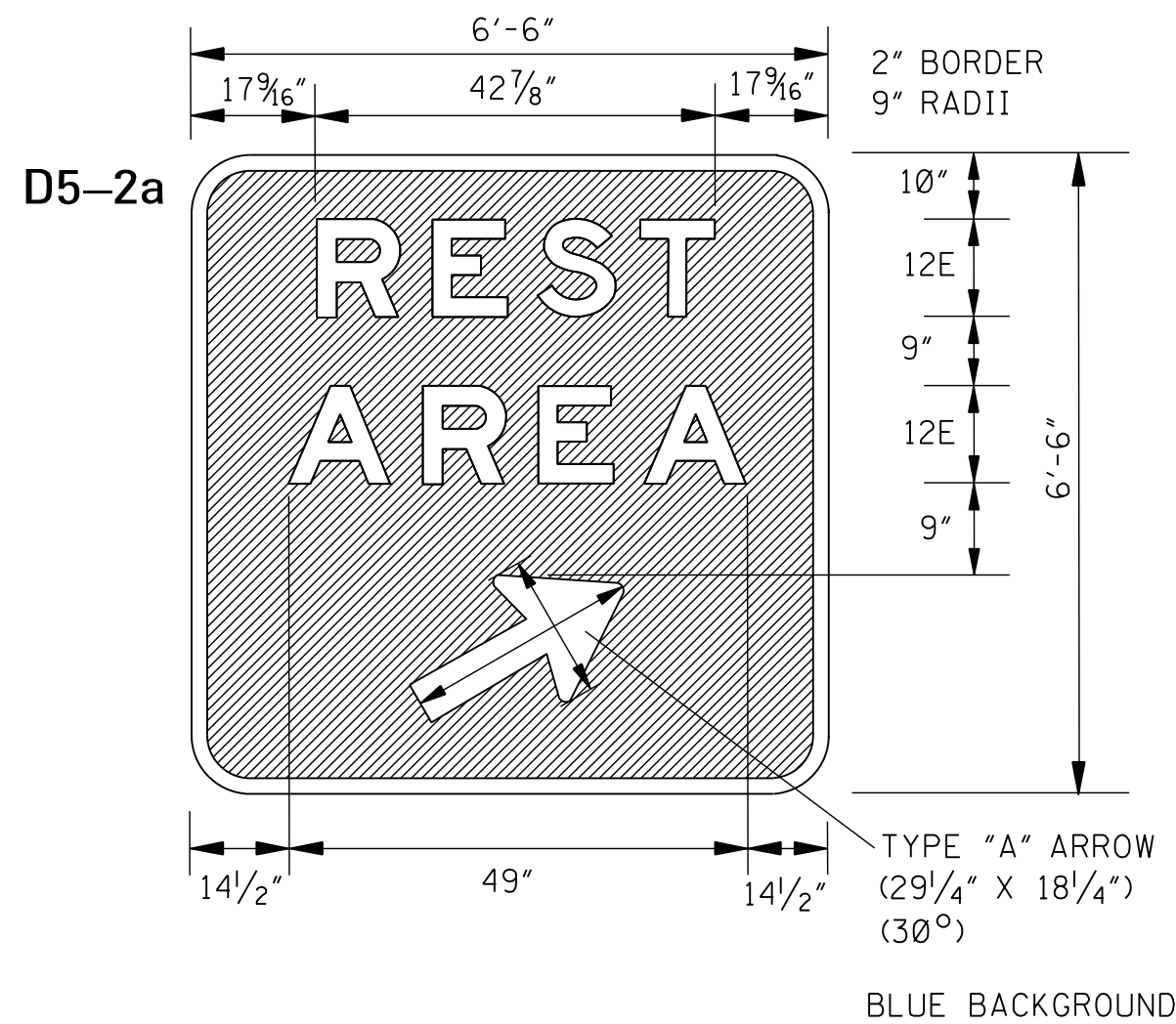
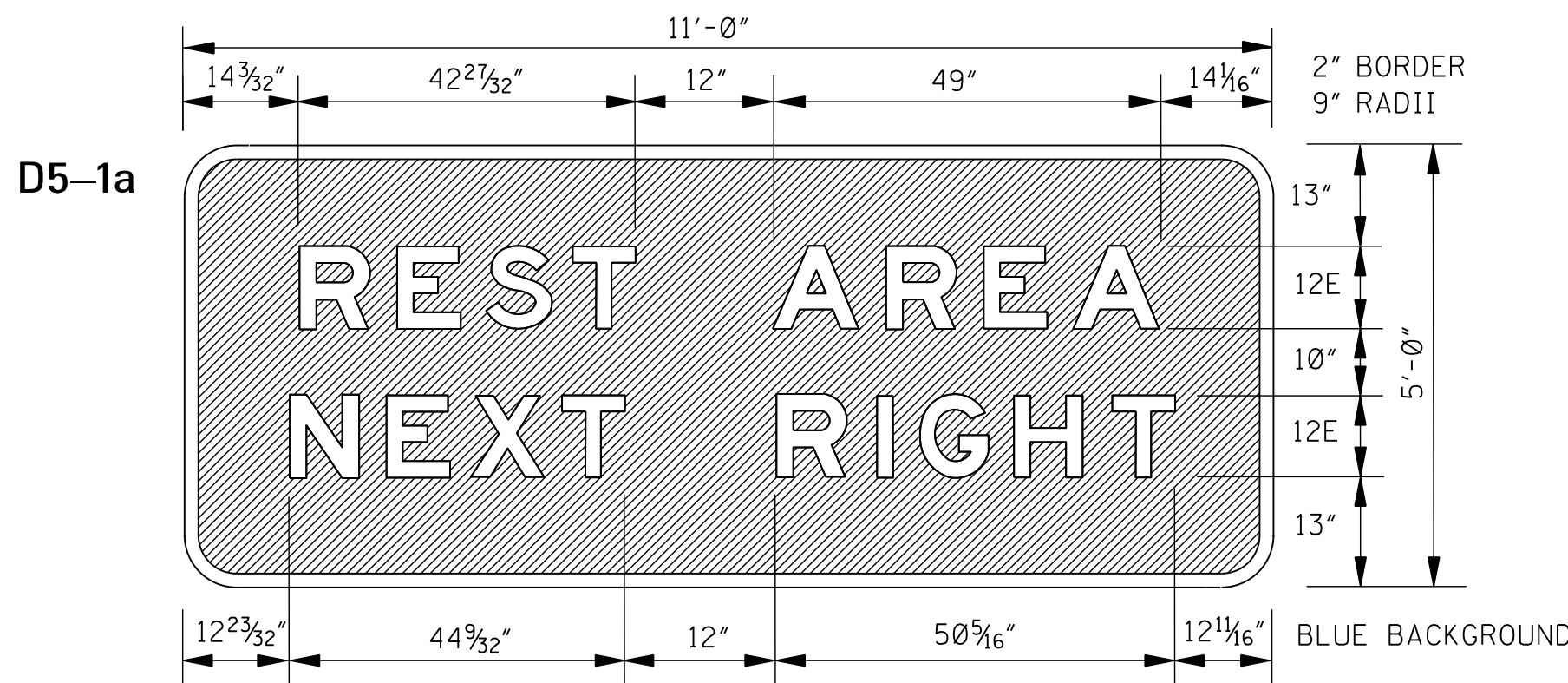
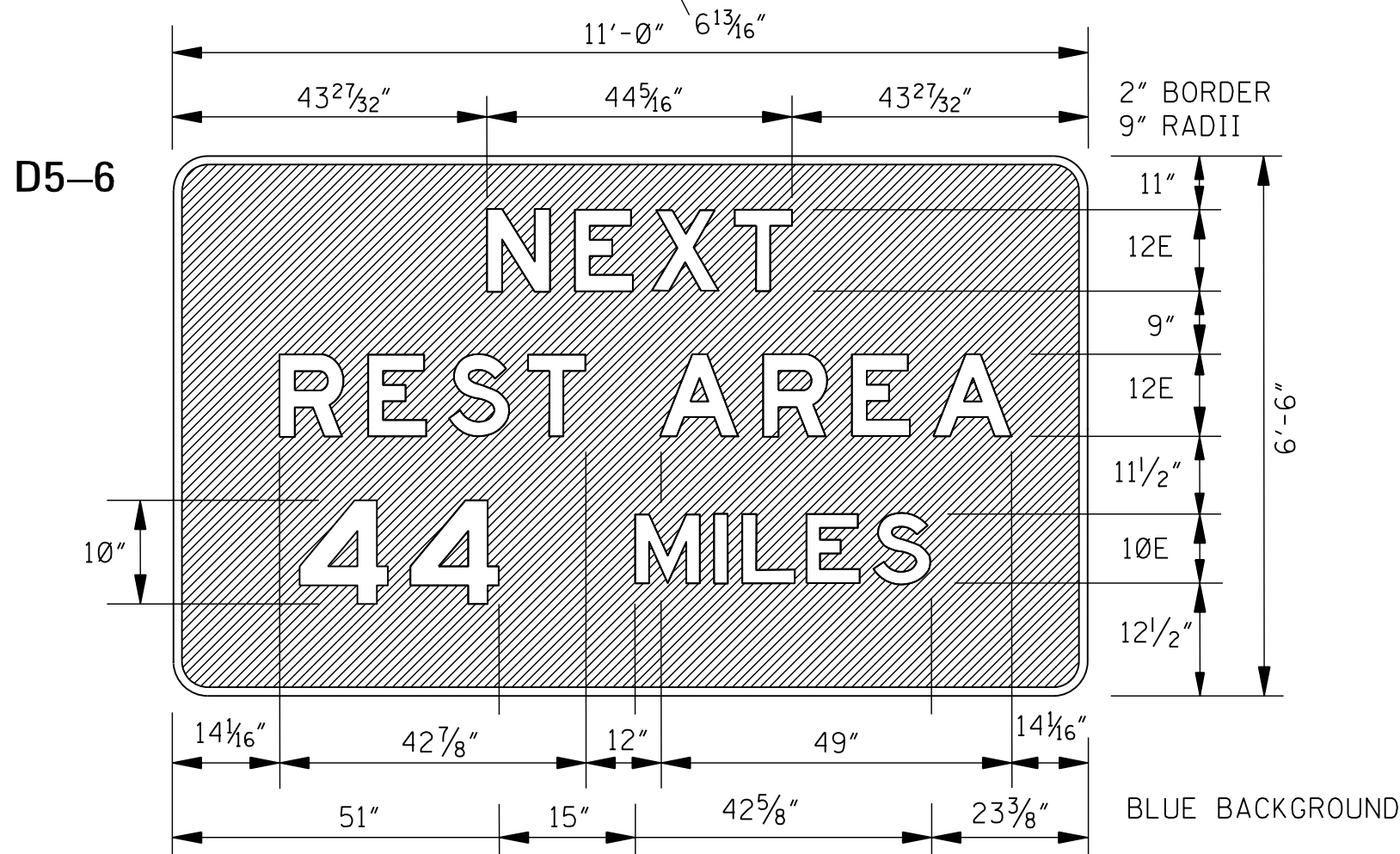
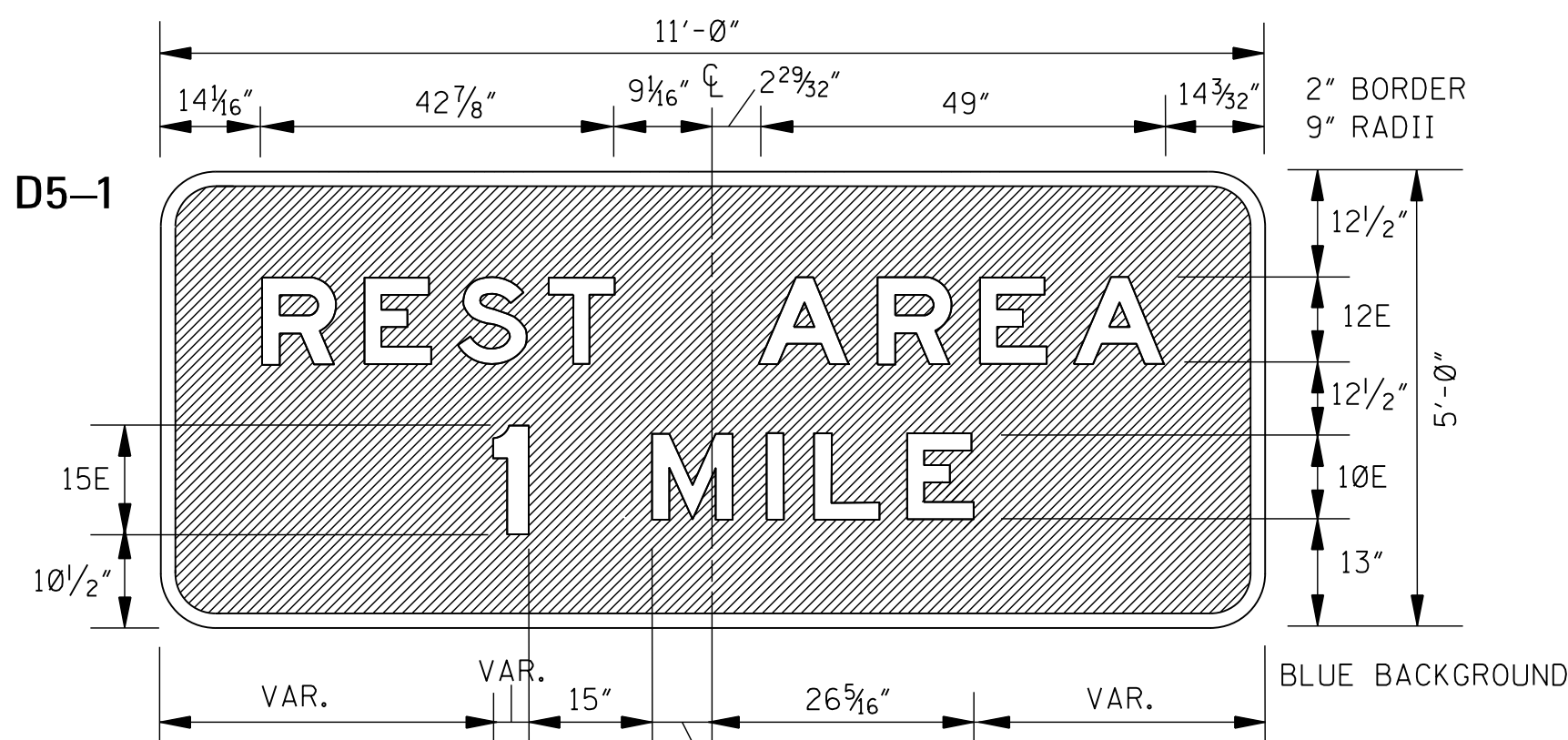
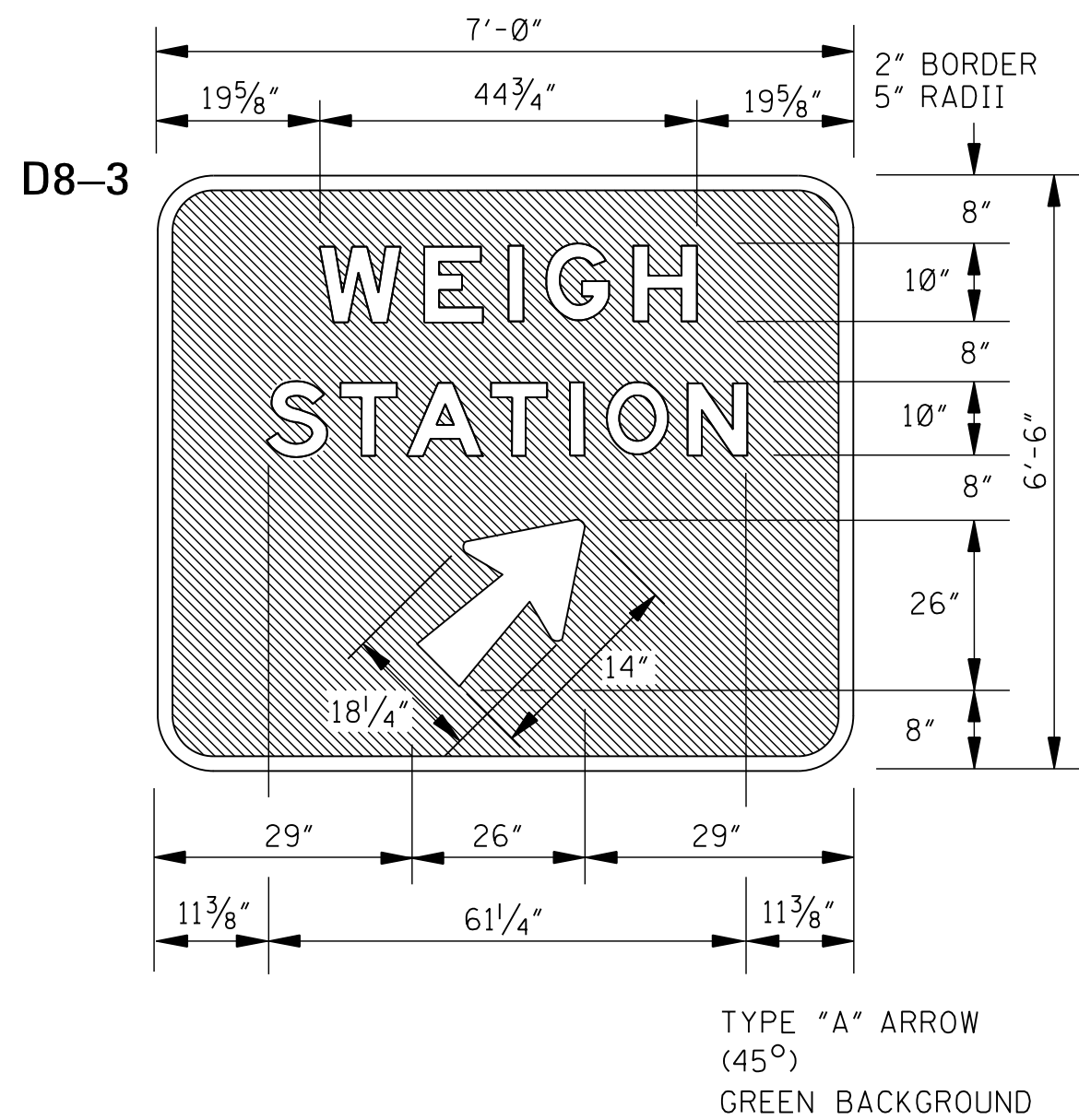
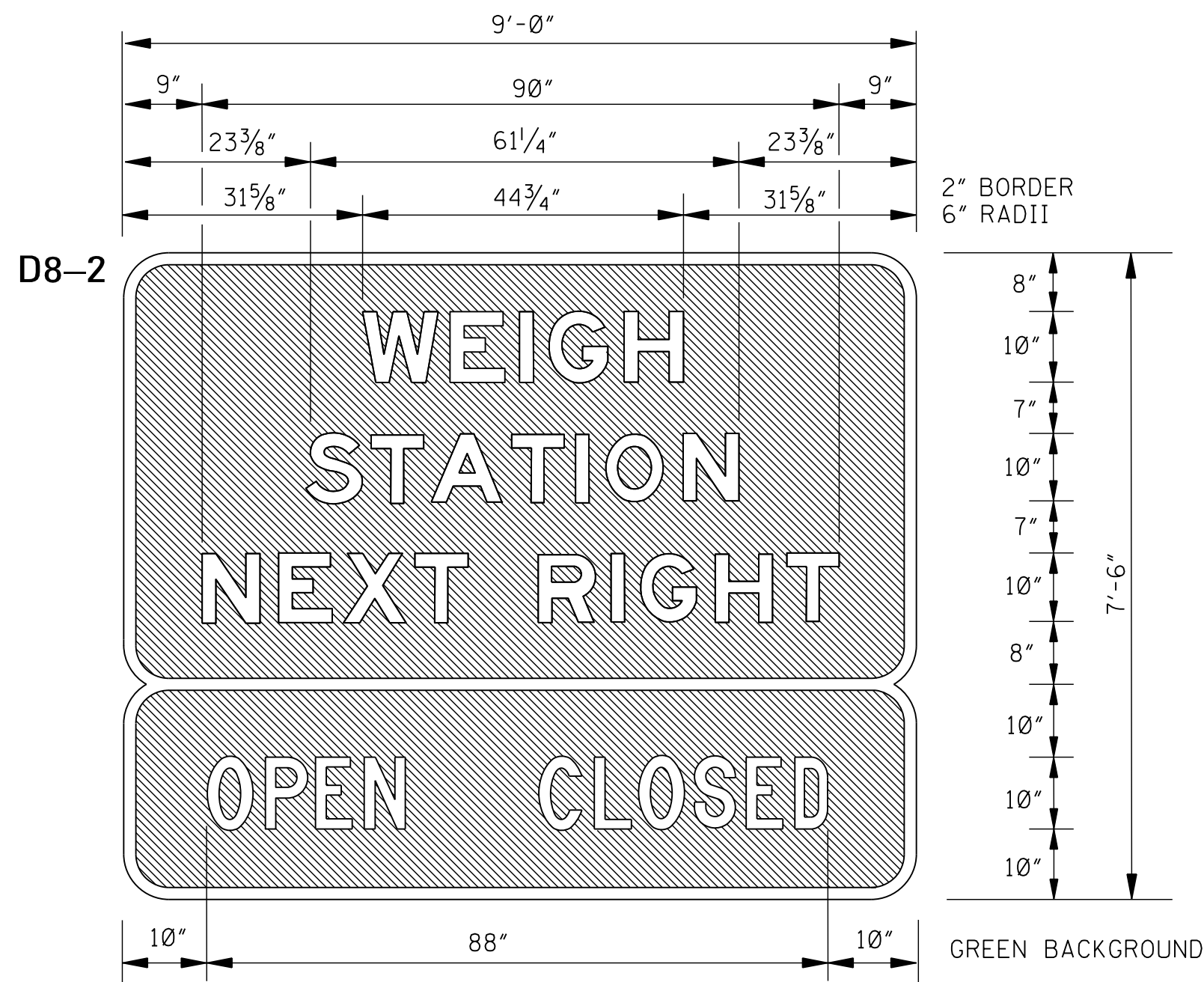
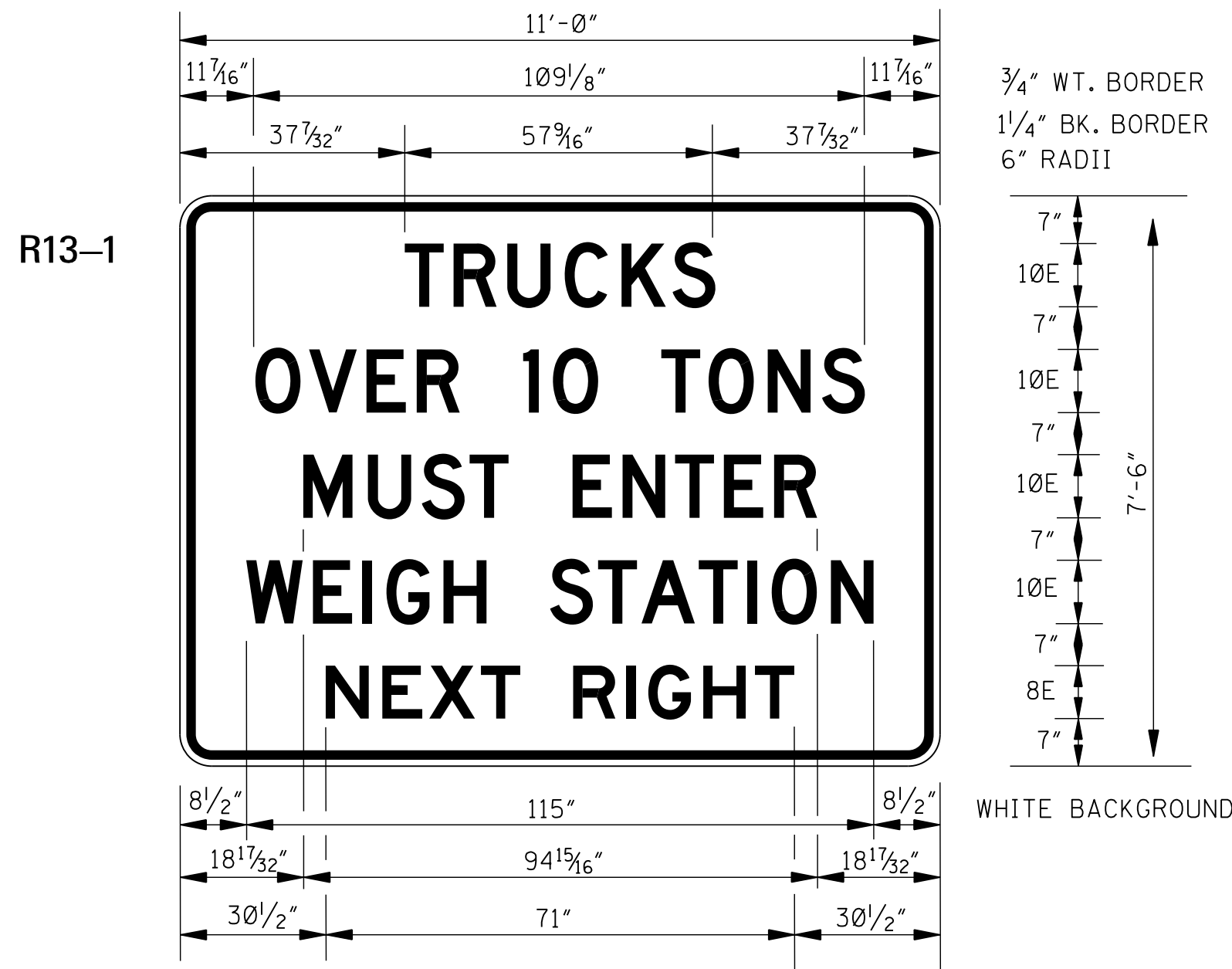
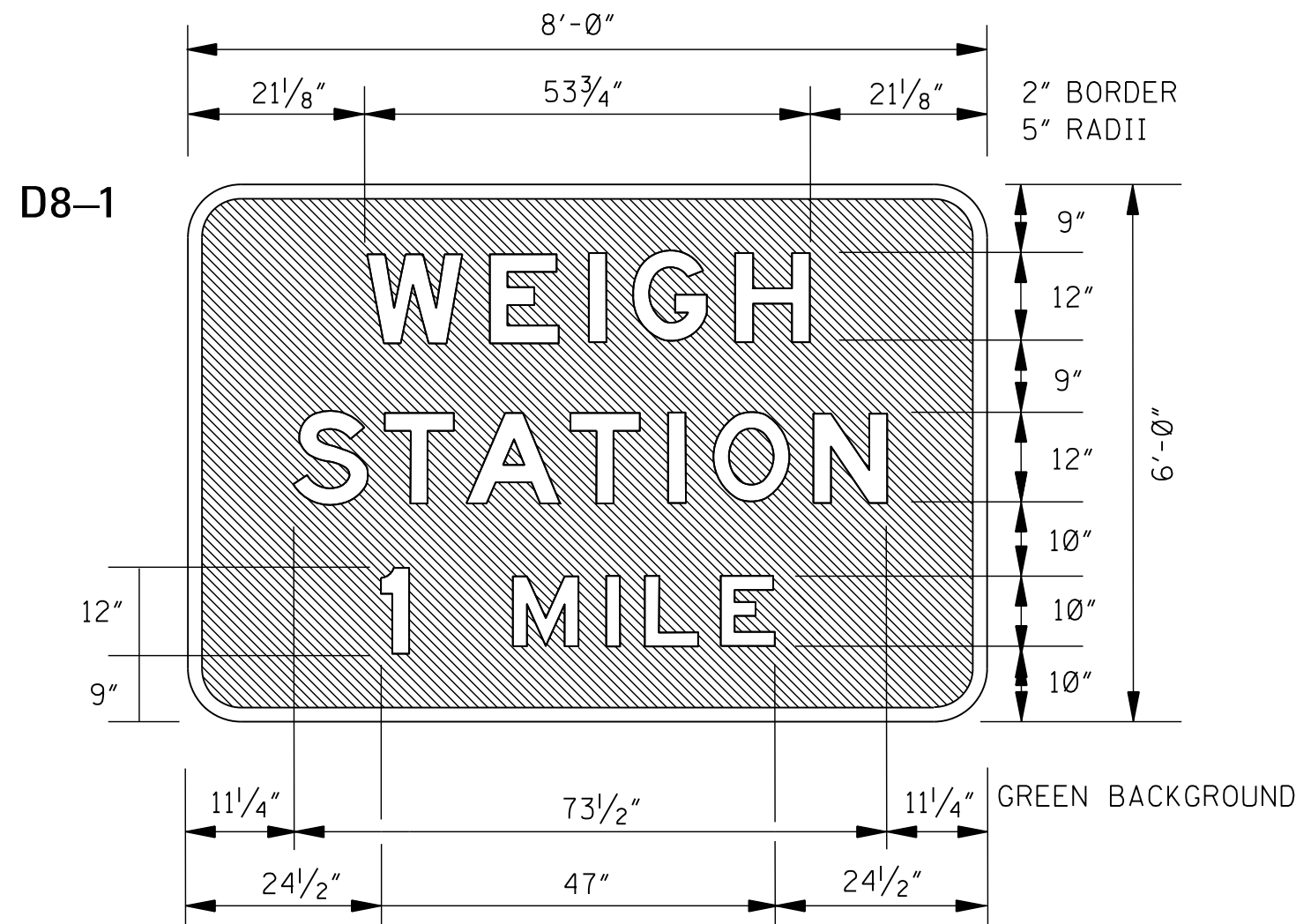
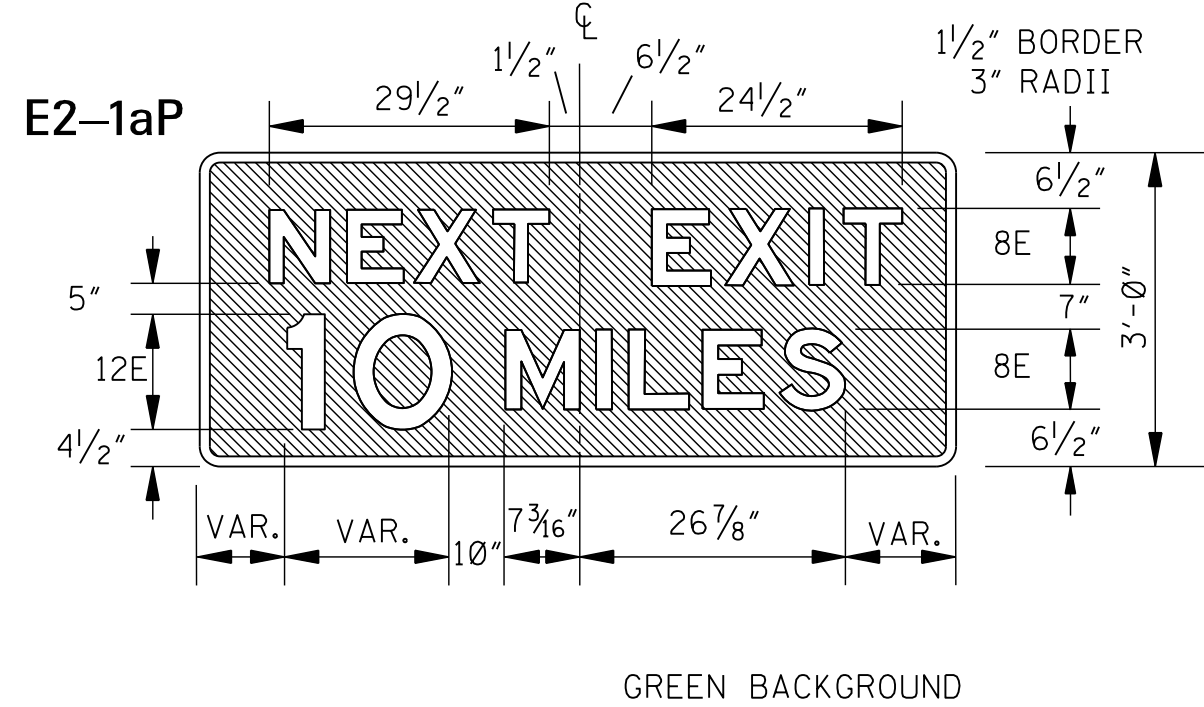
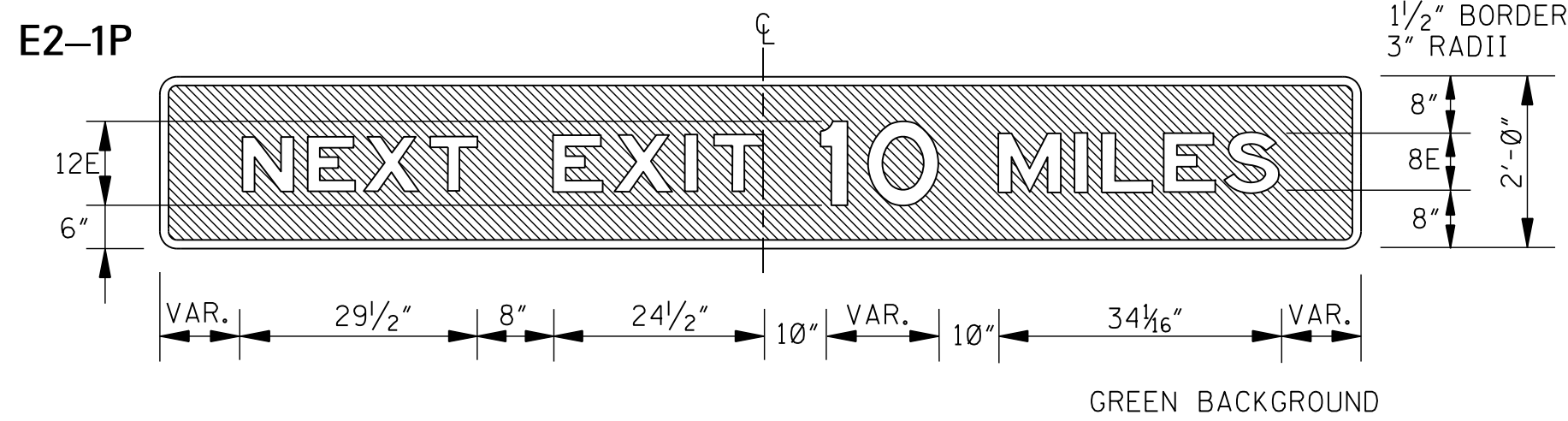
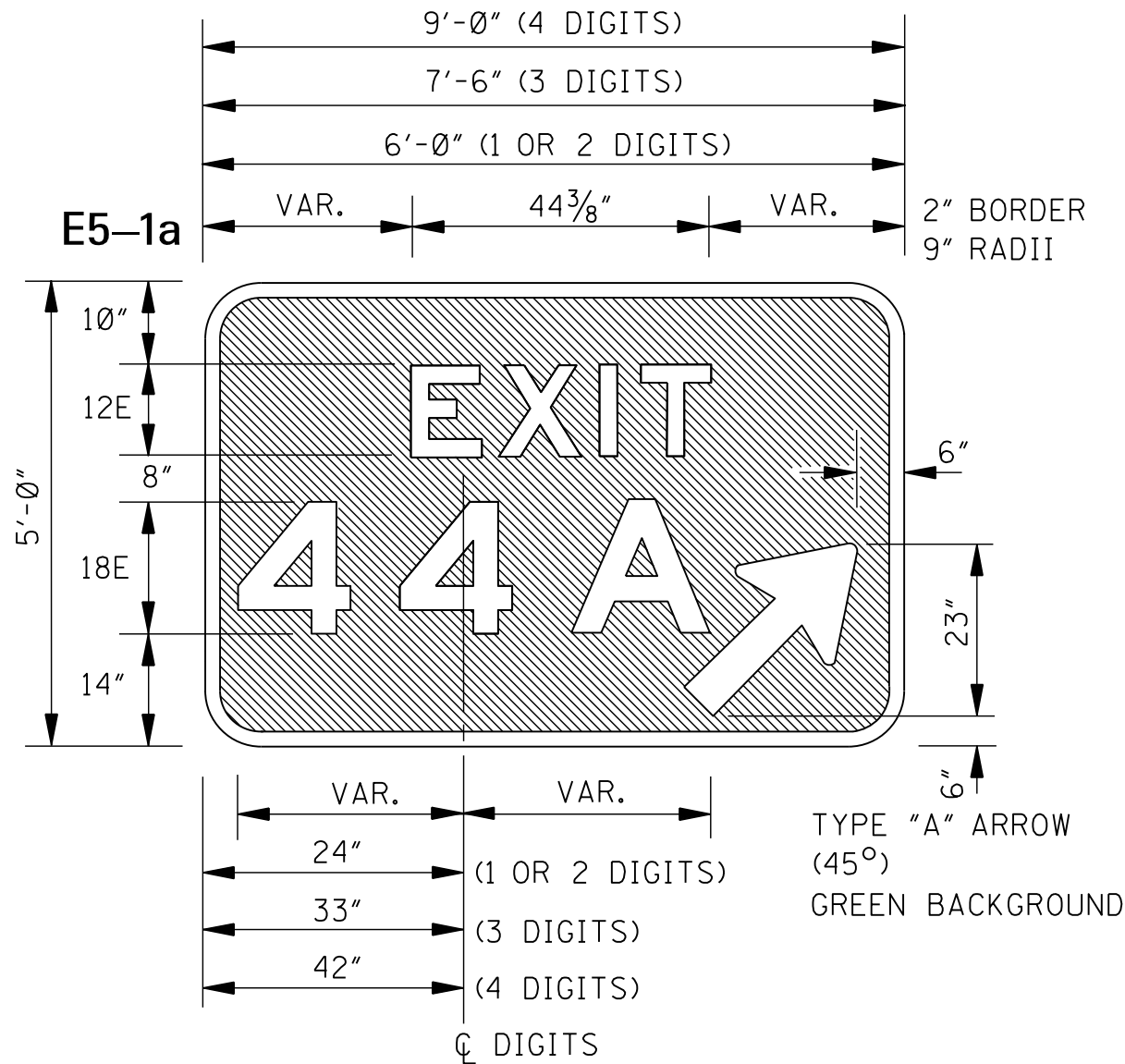
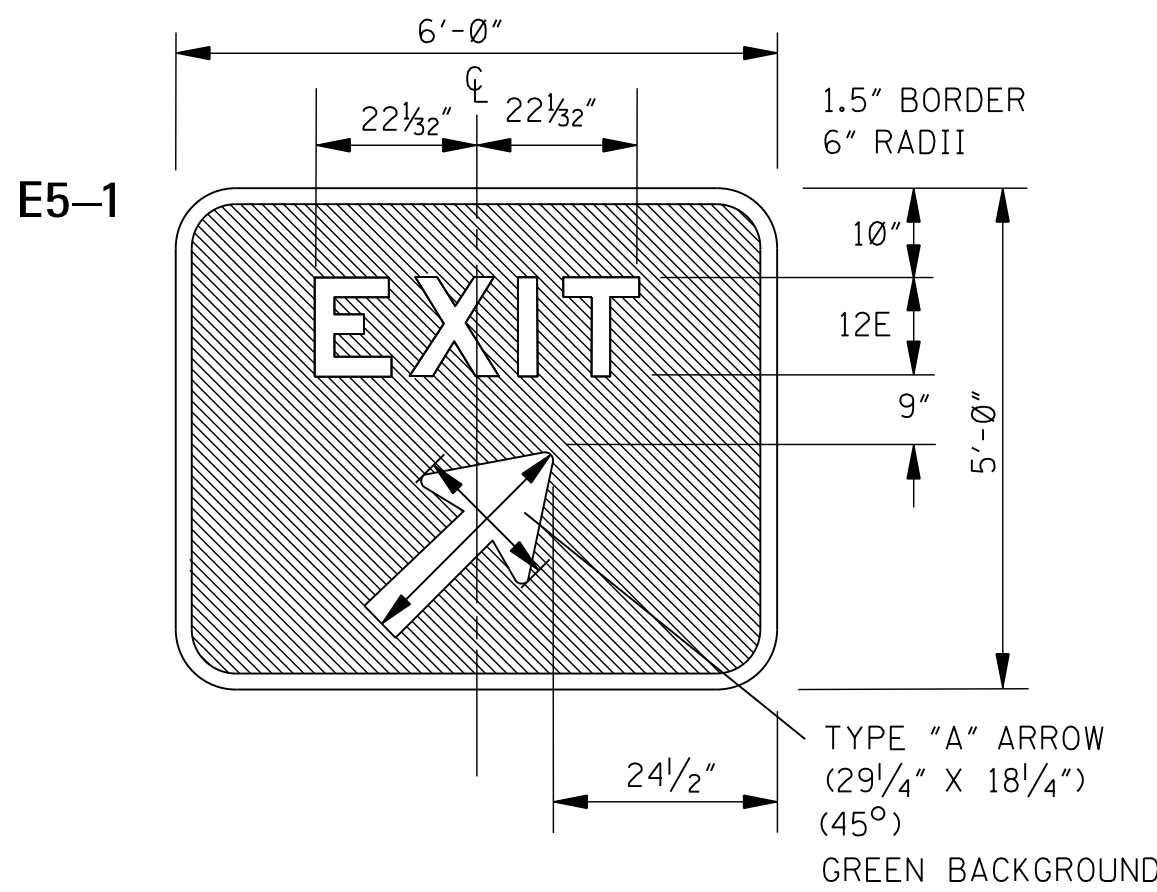
TYPE "A" BRIDGE END SECTION

SECTION C-C

TYPE "C" BRIDGE END SECTION

GUARDRAIL CONNECTION AT BRIDGE END

			BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN
			REVISION	
			DATE	GUARDRAIL: BRIDGE END SECTIONS TYPE "A" & "C" MDOT MISSISSIPPI DEPARTMENT OF TRANSPORTATION WORKING NUMBER GR-2 SHEET NUMBER 6204 ISSUE DATE: <u> AUGUST 01, 2017 </u>

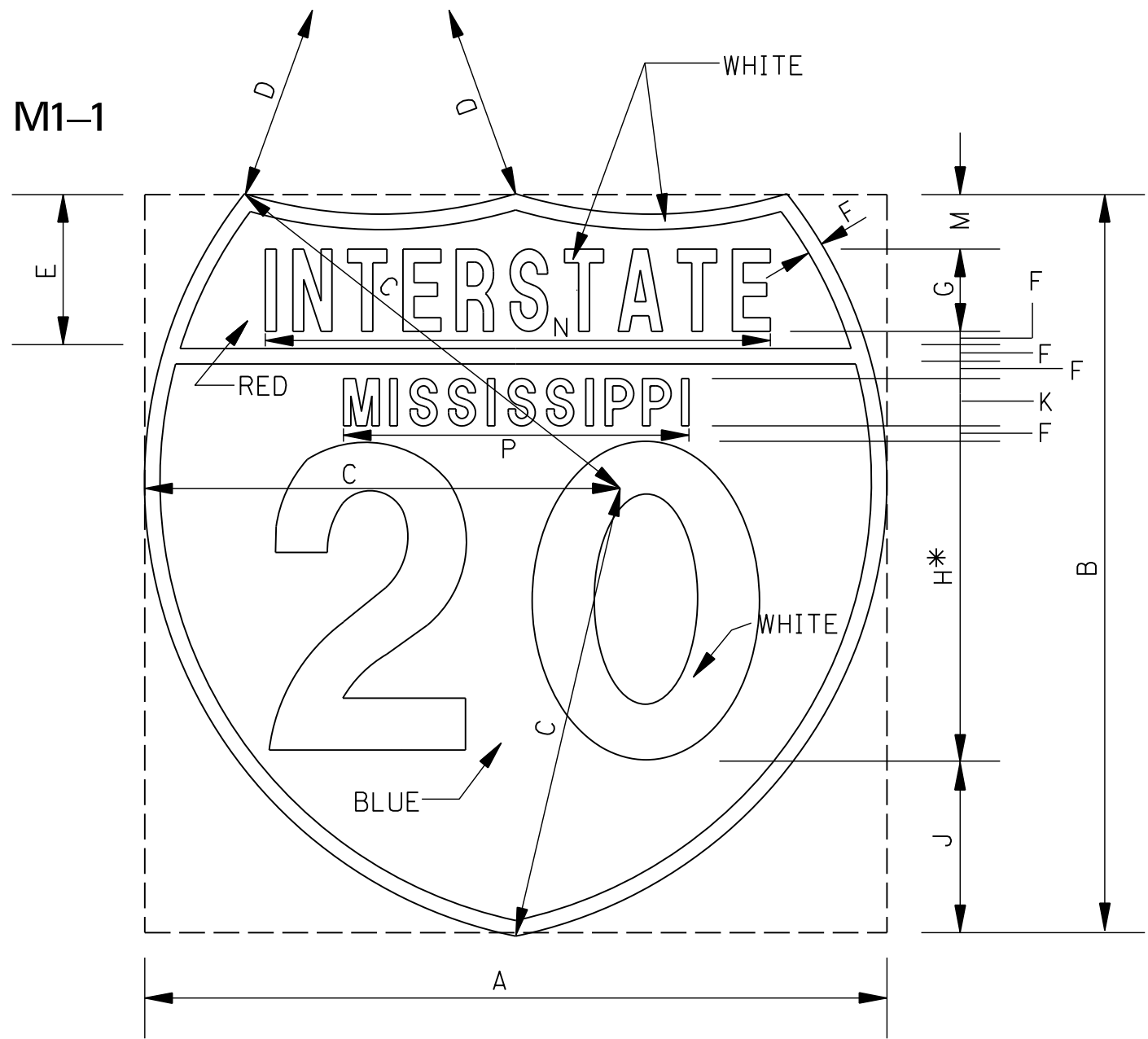


GENERAL NOTE:

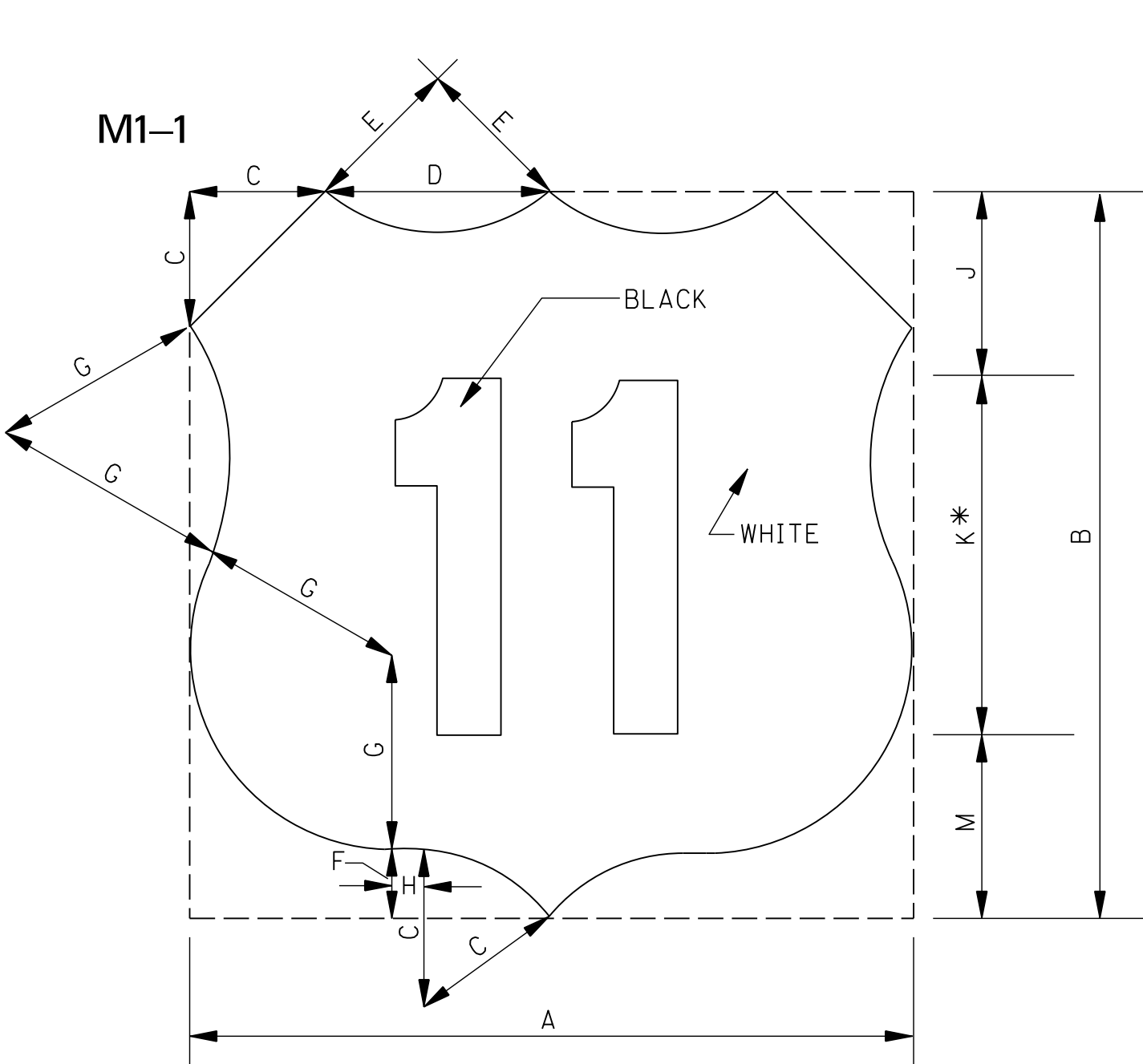
1. THE HORIZONTAL SPACING SHOWN ON THESE DRAWINGS IS FOR REMOVABLE COPY TYPE B (SEE SPECIFICATIONS). THIS SPACING MAY VARY SOMEWHAT WHEN REMOVABLE COPY TYPE A IS USED. THE VERTICAL SPACING WILL REMAIN THE SAME REGARDLESS OF WHICH TYPE IS USED. ANY CHANGE IN HORIZONTAL SPACING WILL BE SUBJECT TO APPROVAL BY THE STATE TRAFFIC ENGINEER.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

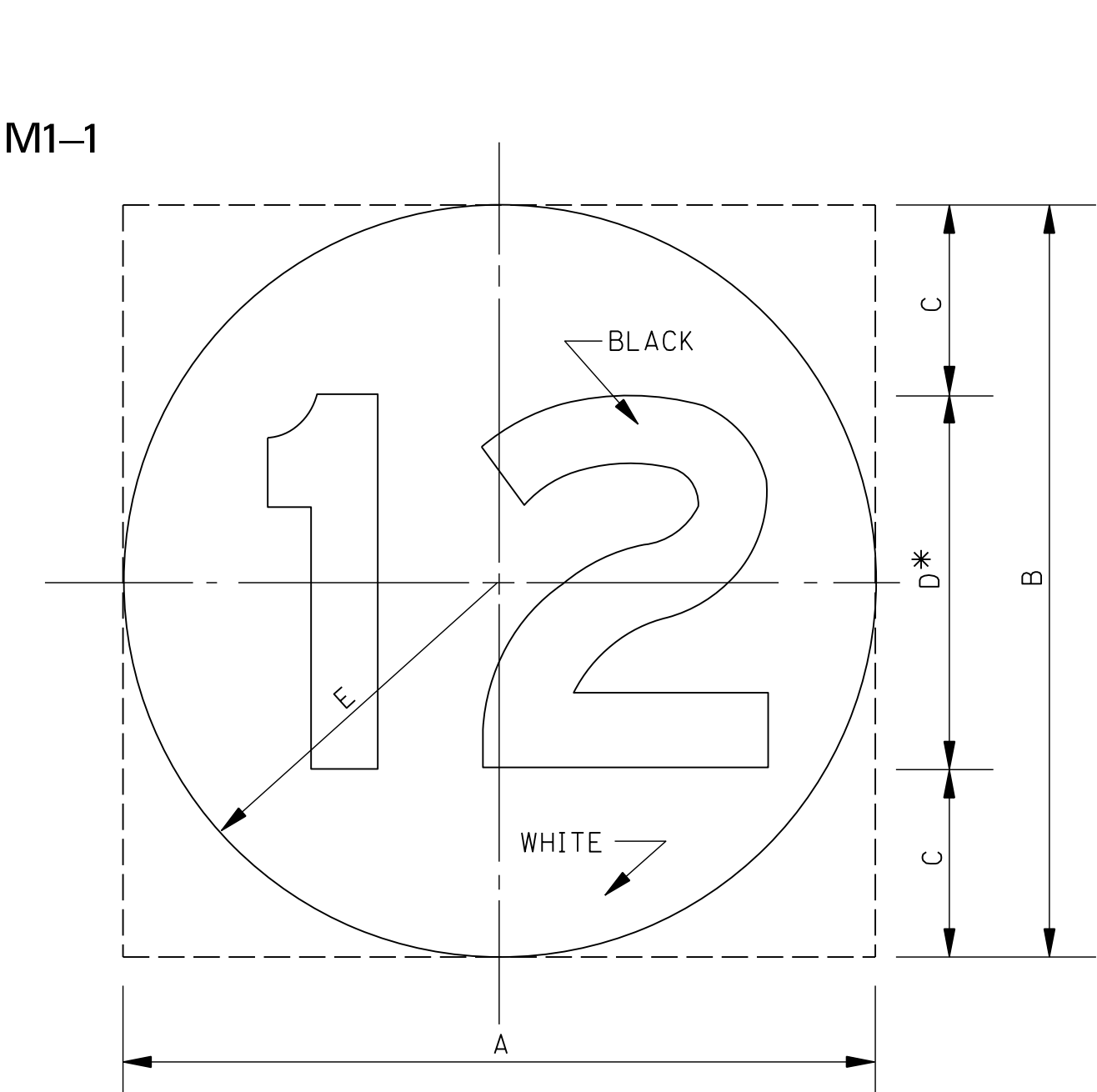
**STANDARD DIRECTIONAL
(GUIDE) SIGNS**



12" NUMERALS		18" NUMERALS		24" NUMERALS	
2 DIGITS	3 DIGITS	2 DIGITS	3 DIGITS	2 DIGITS	3 DIGITS
A 24"	30"	36"	45"	48"	60"
B 24"	24"	36"	36"	48"	48"
C 15"	17"	22½"	25½"	30"	34"
D 15"	24"	22½"	36"	30"	48"
E 5"	5"	7½"	7½"	10"	10"
F ½"	½"	¾"	¾"	1"	1"
G 2½C	2½E	4C	4E	5C	5E
*H 10D	10D	15D	15D	20D	20D
J 6"	6"	9"	9"	12"	12"
K 1½D	1½D	2¼D	2¼D	3D	3D
M 2"	2"	2¾"	2¾"	4"	4"
N 15⅝"	21⅜"	24½"	34⅜"	30⅝"	43⅝"
P 10¾"	10¾"	16⅞"	16⅞"	21½"	21½"



12" NUMERALS		18" NUMERALS		24" NUMERALS	
2 DIGITS	3 DIGITS	2 DIGITS	3 DIGITS	2 DIGITS	3 DIGITS
A 24"	30"	36"	45"	48"	60"
B 24"	24"	36"	36"	48"	48"
C 5"	5"	7½"	7½"	10"	10"
D 7"	10"	10½"	15"	14"	20"
E 5"	9"	7½"	13½"	10"	18"
F 2"	2"	3"	3"	4"	4"
G 7"	7"	10½"	10½"	14"	14"
H 1"	4"	1½"	5½"	2"	8"
J 5½"	5½"	8½"	8½"	11"	11"
*K 12"	12"	18"	18"	24"	24"
M 6½"	6½"	9¾"	9¾"	13"	13"

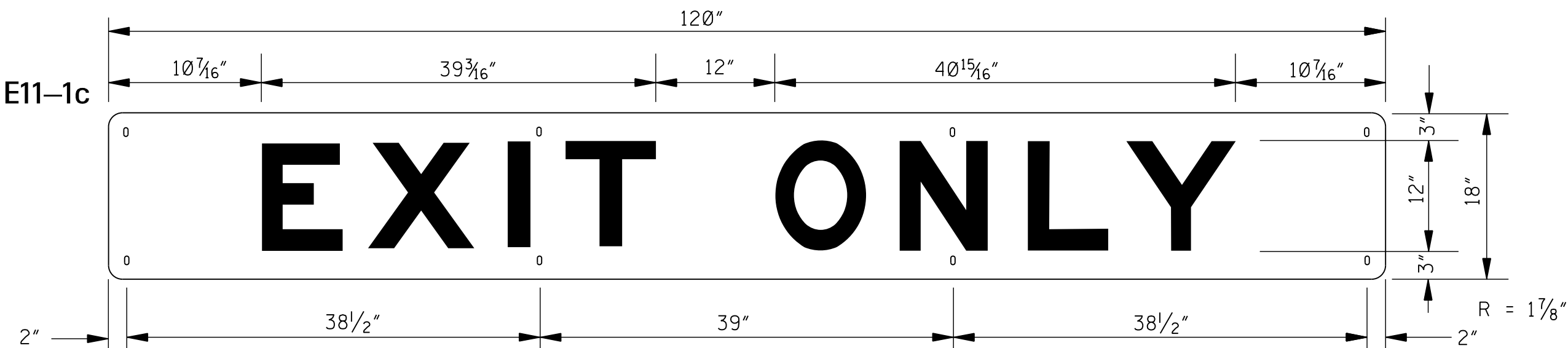
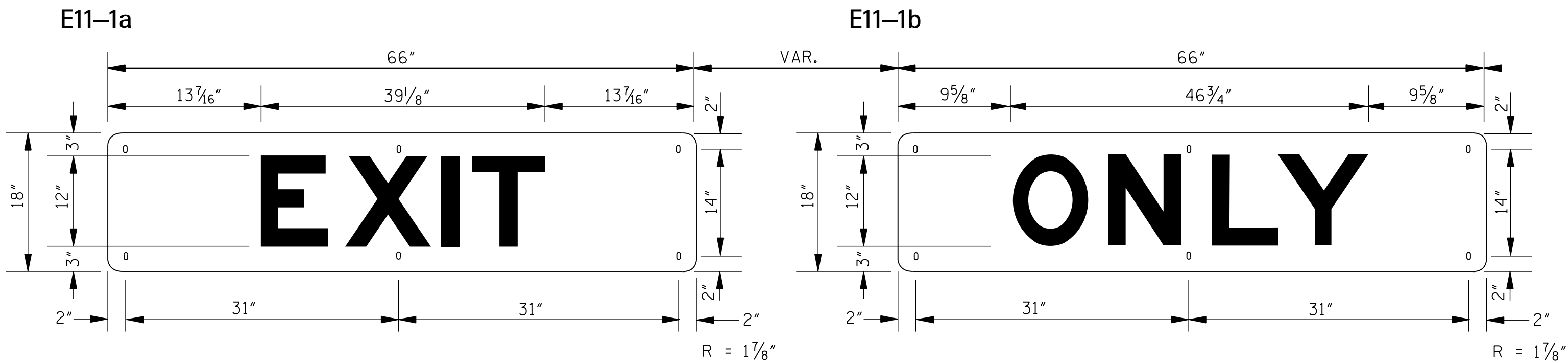


	DIMENSIONS (INCHES)				
	A	B	C	D*	E
1,2-DIGIT(S)	24"	24"	6"	12"	12"
1,2-DIGIT(S)	36"	36"	9"	18"	18"
1,2-DIGIT(S)	48"	48"	12"	24"	24"
3-DIGITS	30"	24"	6"	12"	VAR.
3-DIGITS	45"	36"	9"	18"	VAR.
3-DIGITS	60"	48"	12"	24"	VAR.

GENERAL NOTES:

1. U.S. AND MISSISSIPPI SHIELDS DO NOT HAVE AN OUTSIDE BORDER.
2. INTERSTATE, U.S. AND MISSISSIPPI SHIELDS SHOWN ON THIS DRAWING SHALL BE USED ONLY ON GUIDE SIGNS. SEE OTHER DRAWINGS FOR SHIELDS TO BE USED INDEPENDENTLY AS ROUTE MARKERS.
3. ON INTERSTATE SHIELDS, THE LEGEND AND BACKGROUND SHALL BE REFLECTORIZED.
4. ON U.S. AND MISSISSIPPI SHIELDS, THE BACKGROUND SHALL BE REFLECTORIZED.

- * 5. IN SOME CASES, NUMERALS CANNOT BE ACCOMMODATED WITHIN THE SPACE AVAILABLE. FOR THESE SITUATIONS, THE STANDARD SERIES "D" NUMERALS MAY BE REDUCED TO SERIES "C" NUMERALS OR AS A SECOND CHOICE TO THE NEXT SMALLER HEIGHT COMMONLY AVAILABLE.

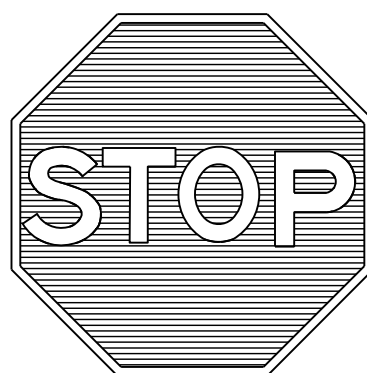
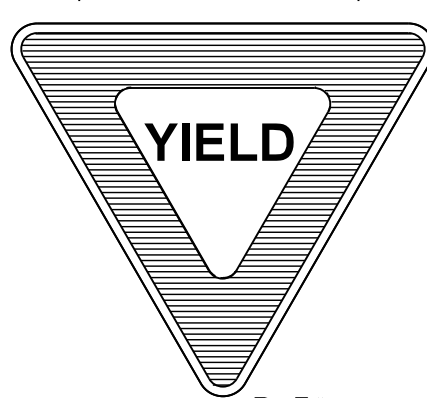
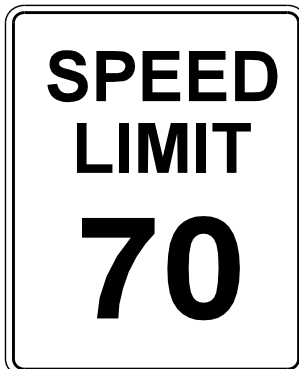
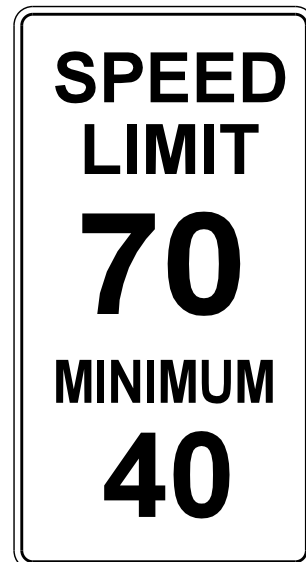
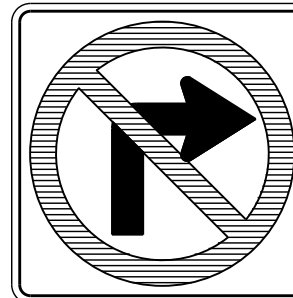
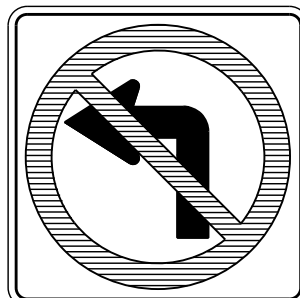
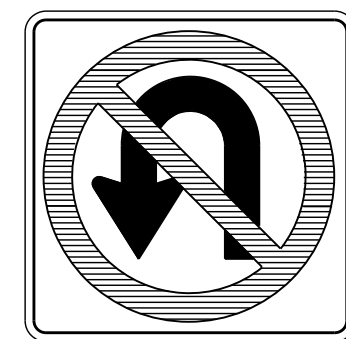
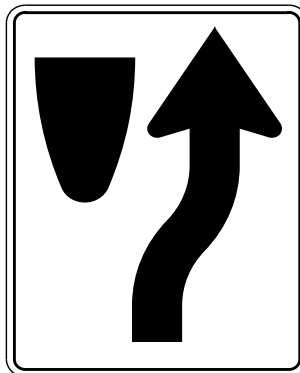
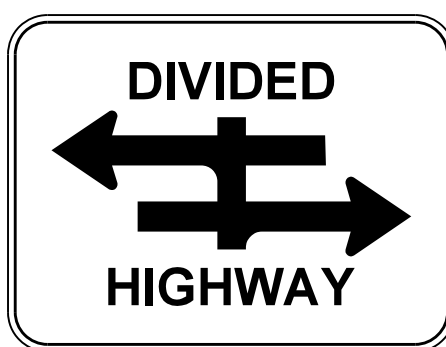
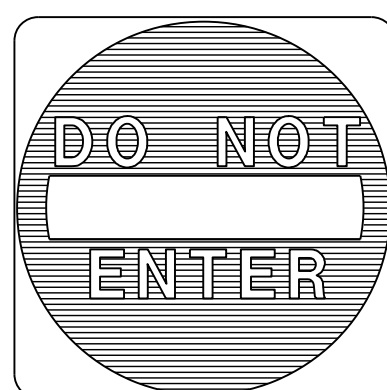
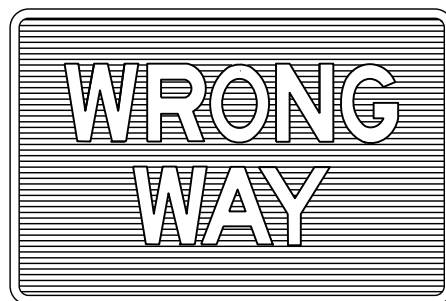


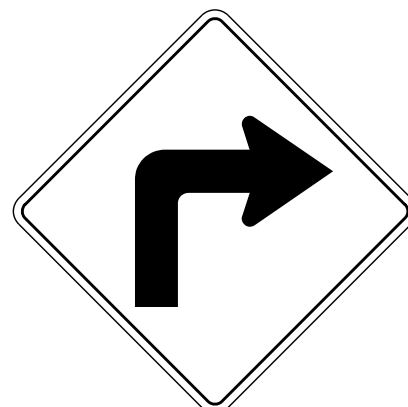
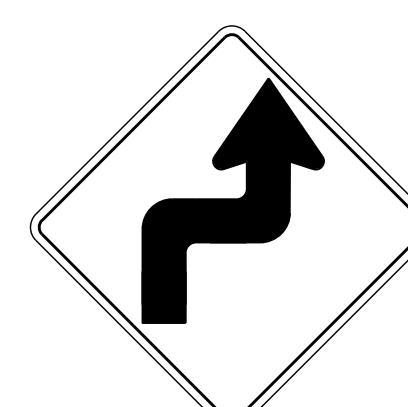
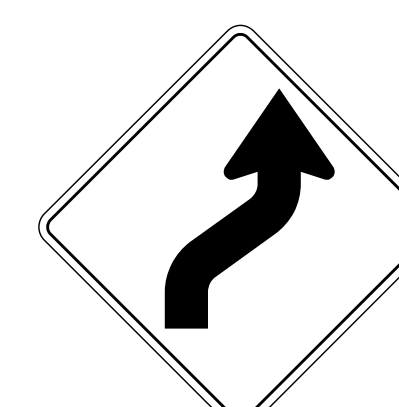
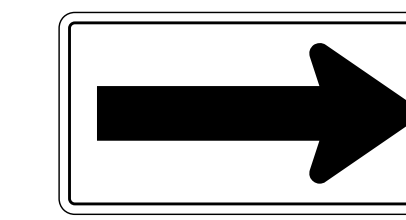
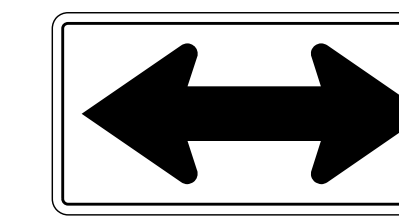
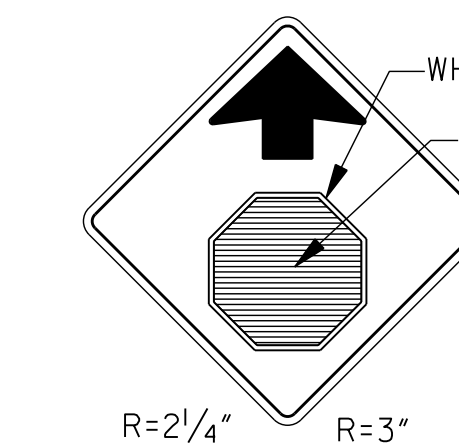
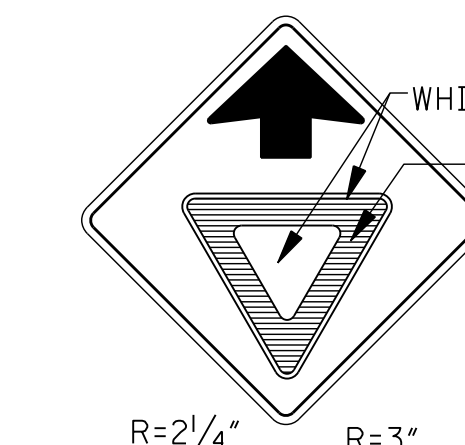
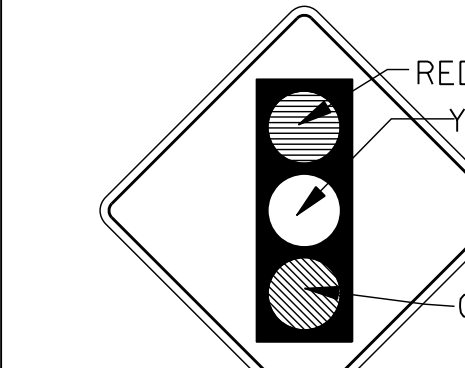
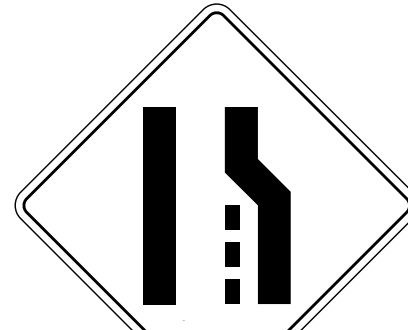
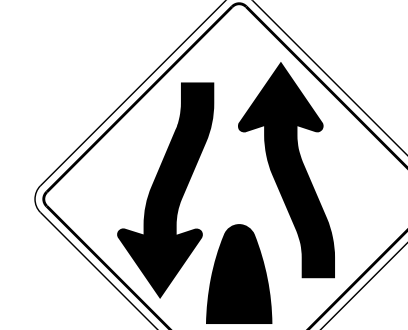
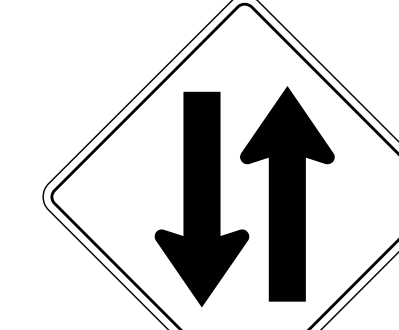
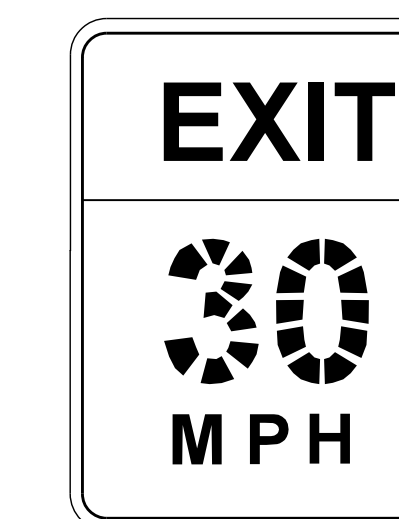
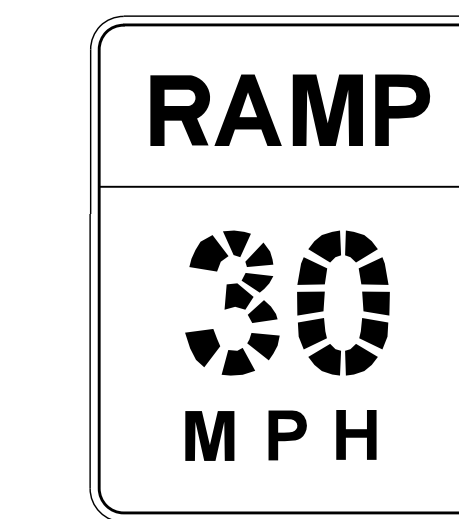
GENERAL NOTES:

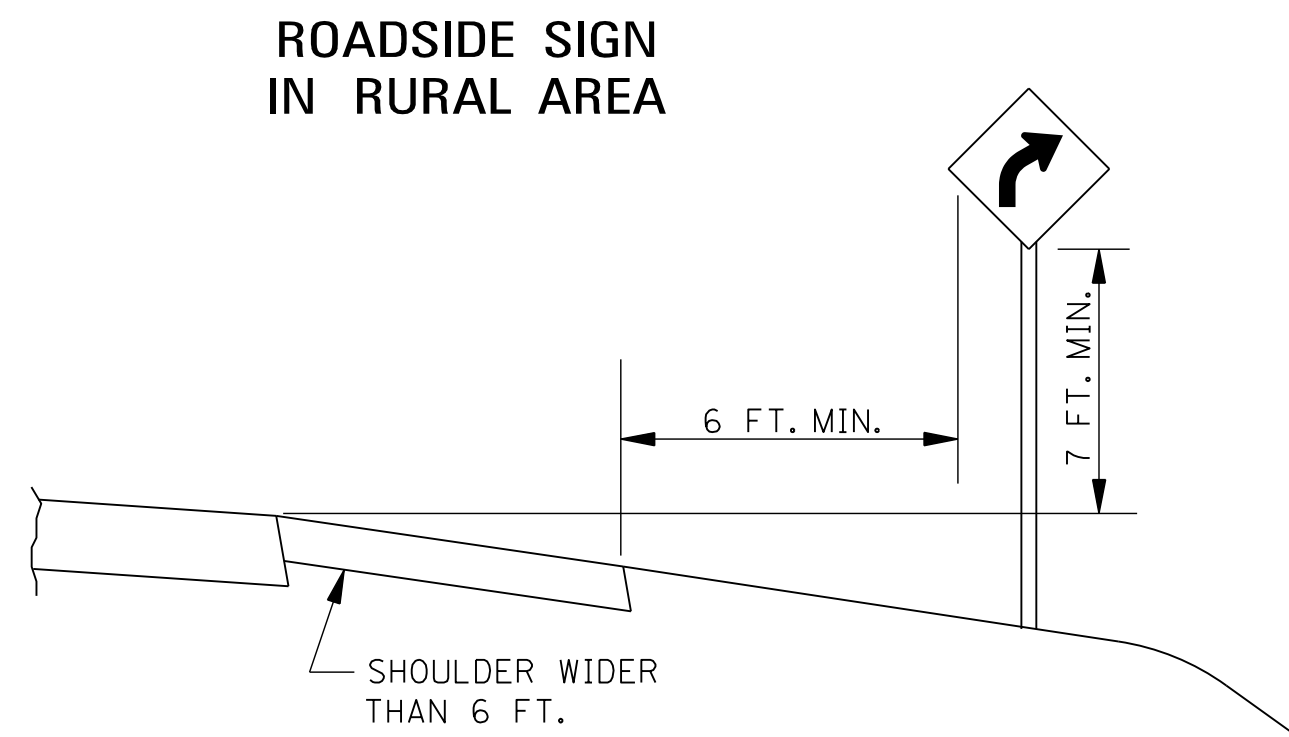
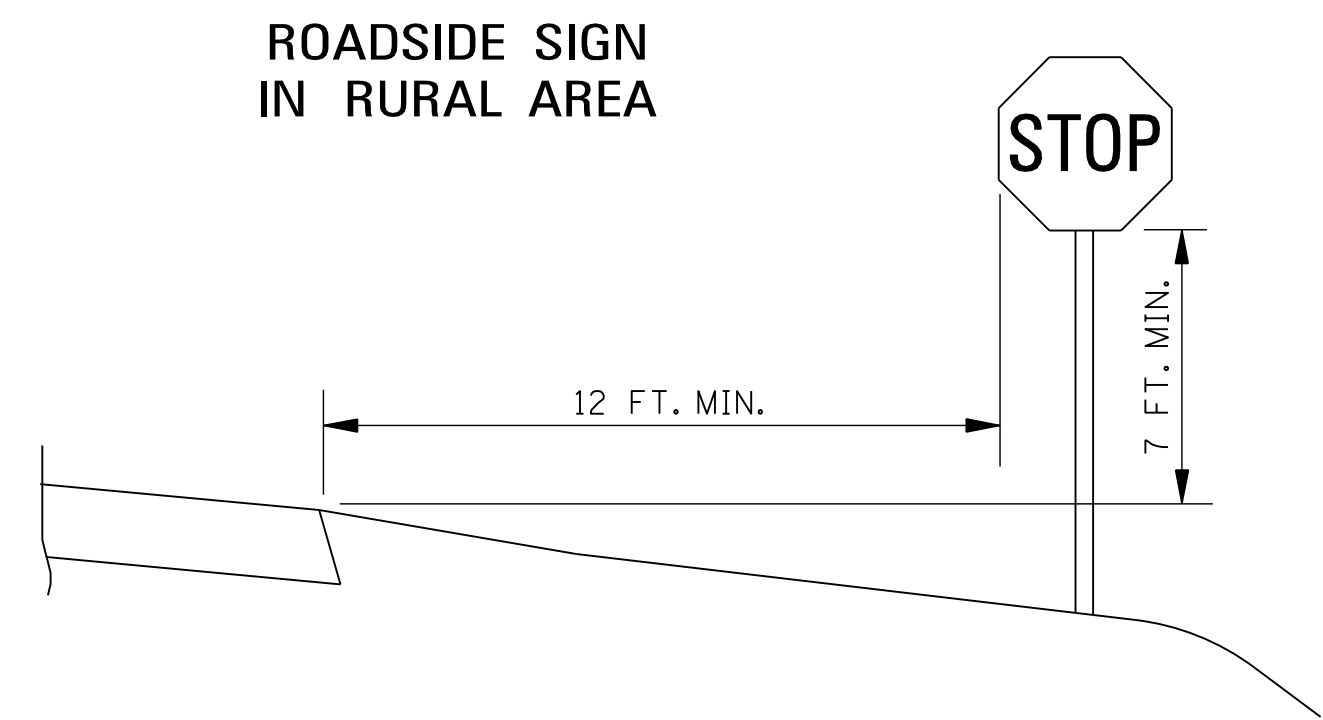
1. THESE ARE "OVERLAY" SIGNS FABRICATED ON 0.063" THICK ALUMINUM (6061-T6) AND SHALL BE RIVETED TO DIRECTIONAL SIGNS DESIGNATED ON PLANS. THESE SIGNS WILL NOT BE PAID FOR AS SEPARATE SIGNS BUT SHALL BE CONSIDERED AS PART OF THE MAJOR SIGNS TO WHICH THEY ARE AFFIXED.
2. LETTER SIZE: 12" SERIES "D"
COLOR: LEGEND - BLACK; BACKGROUND - HI-INTENSITY YELLOW

				BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
				REVISION	ROUTE SHIELDS AND "EXIT ONLY" PANELS	
				DATE	ISSUE DATE: AUGUST 01, 2017	
					 WORKING NUMBER SN-2 SHEET NUMBER 6302	

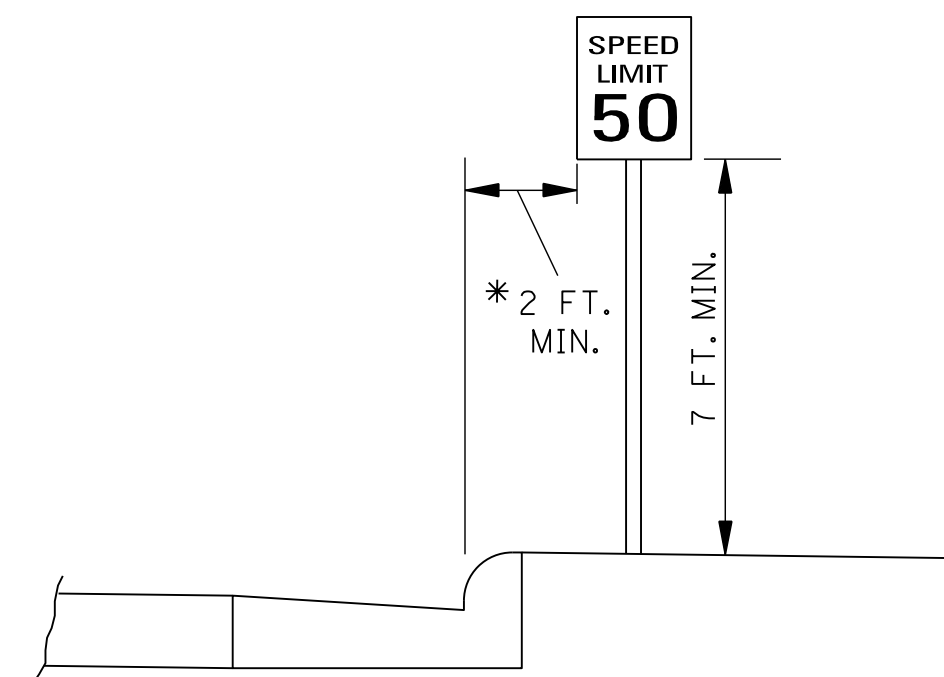
[illegible]

																	STATE	PROJECT NO.
																	MISS.	
SIGN NUMBER	R1-1		R1-2			R2-1			R2-4a	R3-1		R3-2		R3-4		R3-5	R4-3	
ALUMINUM (6061-T6) SIGN BLANK THICKNESS	0.100"	0.125"	0.080"	0.100"	0.125"	0.080"	0.100"	0.125"	0.125"	0.080"	0.100"	0.080"	0.100"	0.080"	0.100"	0.080"	0.100"	0.125"
LEGEND																		
			R=2"	R=3"	R=4"	R=1½"	R=2¼"	R=3"	R=3"	R=1½"	R=2¼"	R=1½"	R=2¼"	R=1½"	R=2¼"	R=1⅙"	R=2¼"	R=3"
	LETTER & NUMERAL SERIES	12" SERIES "C"	16" SERIES "C"	3" SERIES "C"	5" SERIES "C"	4" SERIES "E" 4" SERIES "E"	6" SERIES "E" 6" SERIES "E"	8" SERIES "E" 8" SERIES "E"	8" SERIES "E" 16" SERIES "E" 8" SERIES "C" 14" SERIES "D"							6" SERIES "D"	6" SERIES "D"	8" SERIES "D"
	WIDTH OF BORDER INSIDE OUTSIDE	⅞" WHITE	1¼" WHITE	5" RED ¾" WHITE	6" RED 1" WHITE	8" RED 1½" WHITE	5⅞" BLACK ⅜" WHITE	⅞" BLACK ⅝" WHITE	1¼" BLACK ¾" WHITE	⅞" BLACK ¾" WHITE	⅞" BLACK ⅝" WHITE	5⅞" BLACK ⅜" WHITE	⅞" BLACK ⅝" WHITE	5⅞" BLACK ⅜" WHITE	⅞" BLACK ⅝" WHITE	¾" BLACK ½" WHITE	⅞" BLACK ⅝" WHITE	1¼" BLACK ¾" WHITE
	SIZE (WIDTH X HEIGHT)	36" OCTAGON	48" OCTAGON	36" EQUIL. TRIANGLE	48" EQUIL. TRIANGLE	60" EQUIL. TRIANGLE	24" X 30"	36" X 48"	48" X 60"	48" X 96"	24" X 24"	36" X 36"	24" X 24"	36" X 36"	24" X 24"	36" X 36"	30" X 36"	36" X 48"
COLORS COPY BACKGROUND	WHITE RED	WHITE RED	RED WHITE	RED WHITE	RED WHITE	BLACK WHITE	BLACK WHITE	BLACK WHITE	BLACK WHITE	BLACK & RED WHITE	BLACK & RED WHITE	BLACK & RED WHITE	BLACK & RED WHITE	BLACK & RED WHITE	BLACK & RED WHITE	BLACK WHITE	BLACK WHITE	BLACK WHITE
REFLECTORIZATION	ALL	ALL	ALL	ALL	ALL	B'GROUND	B'GROUND	B'GROUND	BACKGROUND	BACKGROUND, CIRCLE, & DIAG.	BACKGROUND, CIRCLE, & DIAG.	BACKGROUND, CIRCLE, & DIAG.	BACKGROUND, CIRCLE, & DIAG.	BACKGROUND, CIRCLE, & DIAG.	BACKGROUND, CIRCLE, & DIAG.	BACKGROUND	BACKGROUND	BACKGROUND
NUMBER OF POSTS FOR MOUNTING	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
NUMBER OF HOLES TO BE PUNCHED (⅜" DIA.)	2	4	2	4	4	2	4	6	10	2	2	2	2	2	2	2	4	6
PUNCHING DISTANCE FROM EACH VERTICAL EDGE	18" (VERT. CENTER)	9"	18" (VERT. CENTER)	12" (FROM CENTER)	15" (FROM CENTER)	12" (VERT. CENTER)	3"	9"	9"	12" (VERT. CENTER)	18" (VERT. CENTER)	12" (VERT. CENTER)	18" (VERT. CENTER)	12" (VERT. CENTER)	18" (VERT. CENTER)	15" (VERT. CENTER)	3"	9"
PUNCHING DISTANCE FROM TOP EDGE	3"; 33"	9"; 39"	3"; 27"	3"; 15"	3"; 21"	3"; 27"	9"; 39"	4"; 30"; 56"	4"; 28"; 52"; 60"; 92"	3"; 21"	6"; 30"	3"; 21"	6"; 30"	3"; 21"	6"; 30"	6"; 30"	9"; 39"	4"; 30"; 56"
SIGN NUMBER	R4-7			R6-3			R5-1		R5-1a	R6-1L, R6-1R		R6-2L, R6-2R		R8-4		R11-1		
ALUMINUM (6061-T6) SIGN BLANK THICKNESS	0.080"		0.125"		0.080"		0.100"	0.125"	0.100"	0.080"		0.080"		0.080"	0.100"	0.125"		0.125"
LEGEND																		
	R=1½"	R=2¼"	R=3"				R=1⅙"	R=3"	R=2¼"	R=1½"		R=2¼"			R=3"			
	LETTER & NUMERAL SERIES						4" SERIES "D"	6" SERIES "D"	8" SERIES "D"	4" SERIES "D"	6" SERIES "D"	4" SERIES "D"	6" SERIES "D"	4" SERIES "D"	6" SERIES "D"	8" SERIES "C"	10" SERIES "C"	
	WIDTH OF BORDER INSIDE OUTSIDE	5⅞" BLACK ⅜" WHITE	⅞" BLACK ⅝" WHITE	1¼" BLACK ¾" WHITE	5⅞" BLACK ⅜" WHITE		WHITE OUT- SIDE BORDER	WHITE OUT- SIDE BORDER	1" WHITE	½" WHITE	5⅞" BLACK ⅜" WHITE	5⅞" BLACK ⅜" WHITE	5⅞" BLACK ⅜" WHITE	⅞" BLACK ⅝" WHITE	5⅞" BLACK ⅜" WHITE	1¼" BLACK ¾" WHITE	1¼" BLACK ¾" WHITE	
	SIZE (WIDTH X HEIGHT)	24" X 30"	36" X 48"	48" X 60"	30" X 24"		36" X 36"	48" X 48"	42" X 30"	36" X 12"	24" X 30"	30" X 24"	48" X 36"	36" X 48"	48" X 60"			
COLORS COPY BACKGROUND	BLACK WHITE	BLACK WHITE	BLACK WHITE	BLACK WHITE		WHITE RED	WHITE RED	WHITE RED	BLACK (WHITE ARROW) BLACK	BLACK WHITE	BLACK WHITE	BLACK WHITE	BLACK WHITE	BLACK WHITE	BLACK WHITE	BLACK WHITE		
REFLECTORIZATION	BACKGROUND	BACKGROUND	BACKGROUND	BACKGROUND		ALL	ALL	ALL	ARROW & BORDER	BACKGROUND	BACKGROUND	BACKGROUND	BACKGROUND	BACKGROUND	BACKGROUND			
NUMBER OF POSTS FOR MOUNTING	1	1	1	1		1	1	1	1	1	1	1	2	1	1			
NUMBER OF HOLES TO BE PUNCHED (⅜" DIA.)	2	4	6	2		2	4	4	2	2	2	2	4	4	6			
PUNCHING DISTANCE FROM EACH VERTICAL EDGE	12" (VERT. CENTER)	3"	9"	15" (VERT. CENTER)		18" (VERT. CENTER)	9"	9"	18" (VERT. CENTER)	12" (VERT. CENTER)	15" (VERT. CENTER)	9"	3"	9"				
PUNCHING DISTANCE FROM TOP EDGE	3"; 27"	9"; 39"	4"; 30"; 56"	3"; 21"		6"; 30"	4"; 44"	3"; 27"	1½"; 10½"	3"; 27"	3"; 21"	3"; 33"	9"; 39"	4"; 30"; 56"				
GENERAL NOTES: 1. THE QUANTITIES LISTED ON THE SUMMARY OF QUANTITIES SHEET FOR THE SIGNS SHOWN ON THIS SHEET WILL BE USED AS THE BASIS FOR FINAL PAYMENT, EXCEPT WHERE SIGNS ARE MODIFIED FROM THAT SHOWN. 2. THE SPEED LIMITS REQUIRED ON SIGNS R2-1 AND R2-4a WILL BE SHOWN ON INDIVIDUAL PLAN SHEETS.																	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN STANDARD ROADSIDE SIGNS  WORKING NUMBER SN-3A SHEET NUMBER 6304	
																	ISSUE DATE: AUGUST 01, 2017	

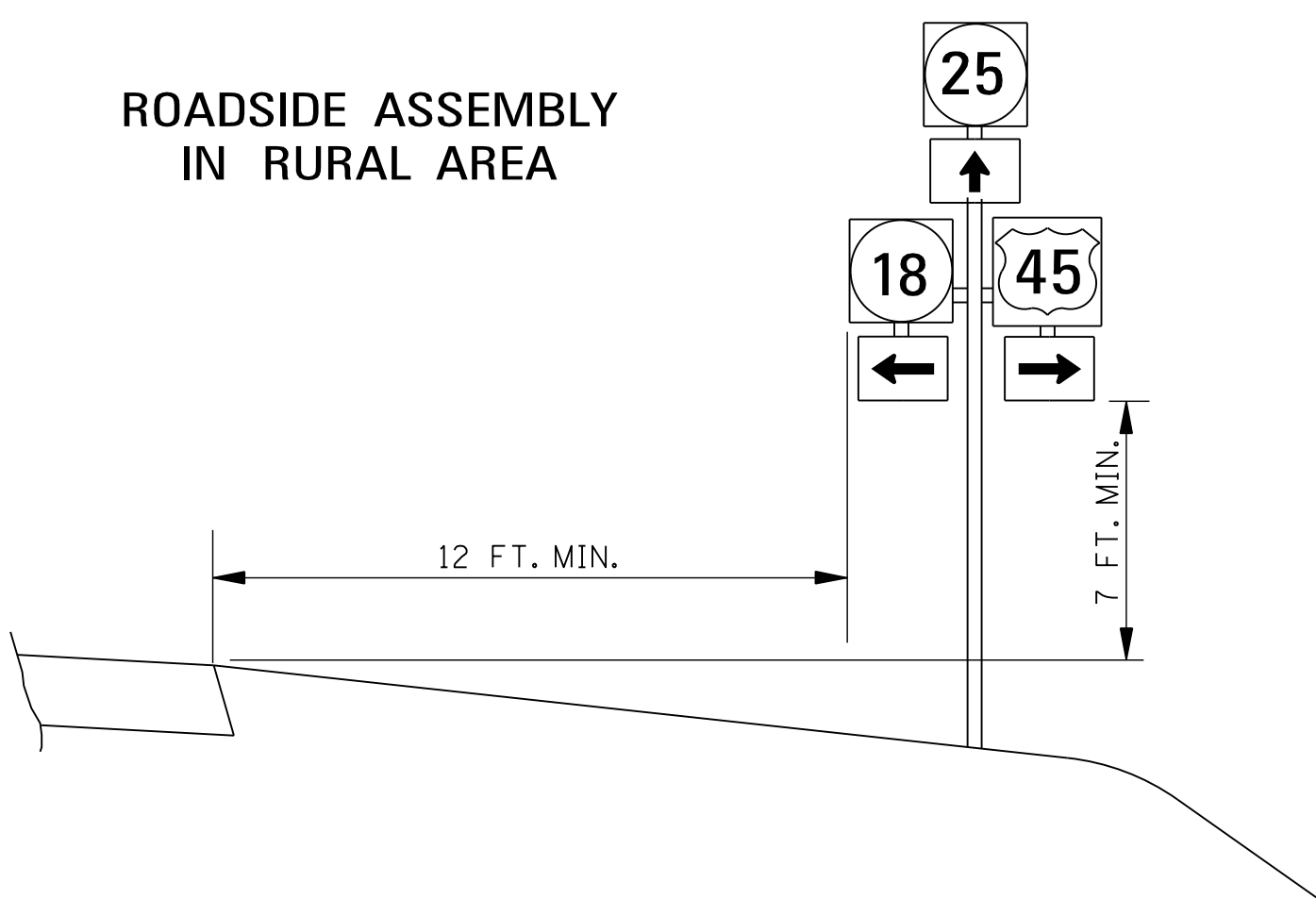
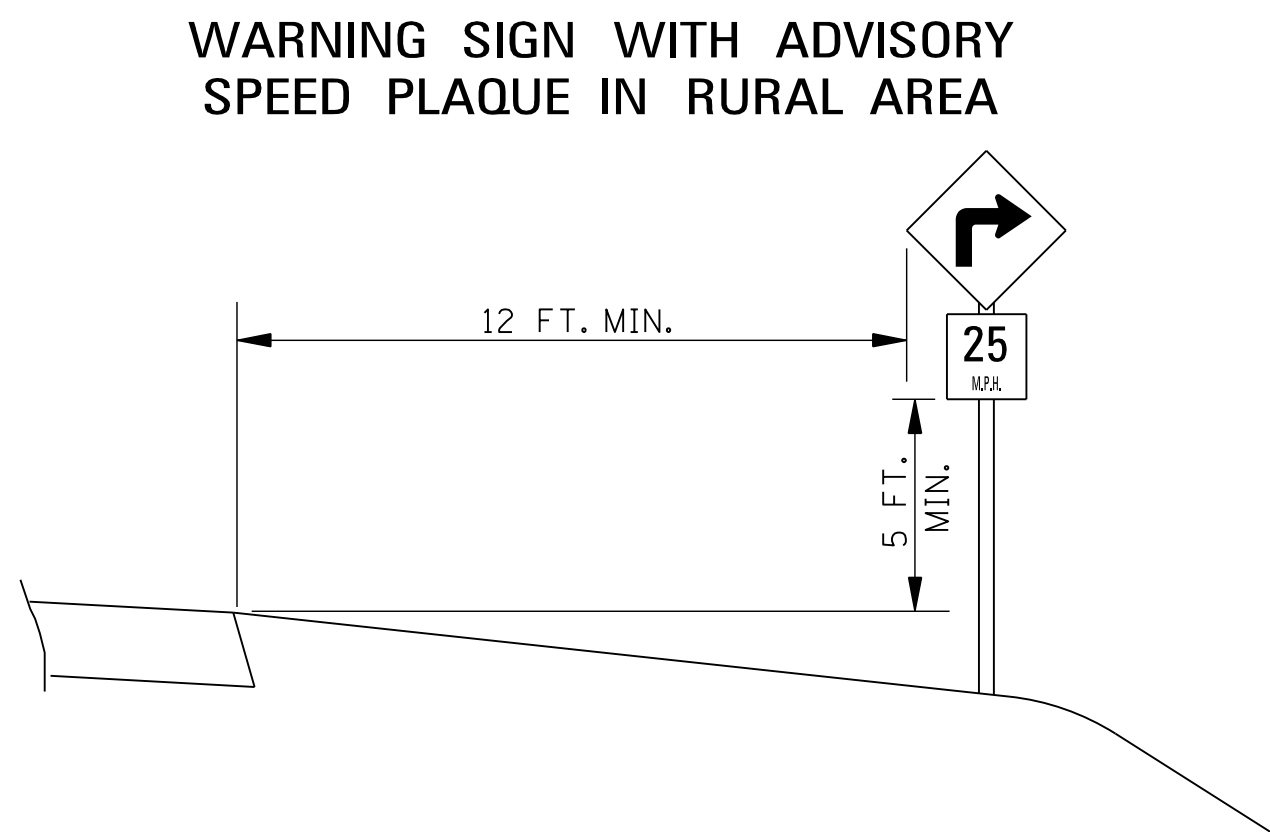
																STATE	PROJECT NO.					
																MISS.						
SIGN NUMBER	W1-1L W1-1R		W1-2L W1-2R		W1-3L W1-3R		W1-4L W1-4R		W1-6L W1-6R		W1-7		W3-1a		W3-2a		W3-3		W4-1L W4-1R		W4-101L W4-101R	
ALUMINUM (6061-T6) SIGN BLANK THICKNESS	0.125"		0.125"		0.125"		0.125"		0.100"		0.100"		0.125"		0.125"		0.125"		0.125"		0.125"	
LEGEND	 R=2 1/4" R=3"		 R=2 1/4" R=3"		 R=2 1/4" R=3"		 R=2 1/4" R=3"		 R=1 7/8"		 R=1 7/8"		 R=2 1/4" R=3"		 R=2 1/4" R=3"		 R=2 1/4" R=3"		 R=2 1/4" R=3"			
LETTER & NUMERAL SERIES	1/8" BLACK 5/8" YELLOW		1/4" BLACK 3/4" YELLOW		1/8" BLACK 5/8" YELLOW		1/4" BLACK 3/4" YELLOW		1/8" BLACK 5/8" YELLOW		1/4" BLACK 3/4" YELLOW		1/8" BLACK 5/8" YELLOW		1/4" BLACK 3/4" YELLOW		1/8" BLACK 5/8" YELLOW		1/4" BLACK 3/4" YELLOW		1/8" BLACK 5/8" YELLOW	
WIDTH OF BORDER INSIDE OUTSIDE	36" X 36" 48" X 48"		36" X 36" 48" X 48"		36" X 36" 48" X 48"		36" X 36" 48" X 48"		48" X 24"		48" X 24"		36" X 36" 48" X 48"		36" X 36" 48" X 48"		36" X 36" 48" X 48"		36" X 36" 48" X 48"		48" X 48"	
COLORS COPY BACKGROUND	BLACK YELLOW		BLACK YELLOW		BLACK YELLOW		BLACK YELLOW		BLACK YELLOW		BLACK YELLOW		BLACK YELLOW		BLACK YELLOW		BLACK YELLOW		BLACK YELLOW		BLACK YELLOW	
REFLECTORIZATION	BACKGROUND		BACKGROUND		BACKGROUND		BACKGROUND		BACKGROUND		BACKGROUND		BACKGROUND & SYMBOL		BACKGROUND & SYMBOL		BACKGROUND & SYMBOL		BACKGROUND & SYMBOL		BACKGROUND & SYMBOL	
NUMBER OF POSTS FOR MOUNTING	1		1		1		1		2		2		1		1		1		1		1	
NUMBER OF HOLES TO BE PUNCHED (3/8" DIA.)	2		4		2		4		4		4		2		4		2		4		2	
PUNCHING DISTANCE FROM EACH VERT. EDGE	VERT. CENTER		15" FROM VERT. CENTER		VERT. CENTER		15" FROM VERT. CENTER		9"		9"		VERT. CENTER		15" FROM VERT. CENTER		VERT. CENTER		15" FROM VERT. CENTER		VERT. CENTER	
PUNCHING DISTANCE FROM TOP EDGE	18" FROM HORIZ. CENTER		15" FROM HORIZ. CENTER		18" FROM HORIZ. CENTER		15" FROM HORIZ. CENTER		3"; 21"		3"; 21"		18" FROM HORIZ. CENTER		15" FROM HORIZ. CENTER		18" FROM HORIZ. CENTER		15" FROM HORIZ. CENTER		18" FROM HORIZ. CENTER	
SIGN NUMBER	W4-2		W6-1		W6-2		W6-3		W13-1		W13-2		W13-3		W10-1							
ALUMINUM (6061-T6) SIGN BLANK THICKNESS	0.125"		0.125"		0.125"		0.125"		0.080"		0.125"		0.125"		0.100"							
LEGEND	 R=2 1/4" R=3"		 R=2 1/4" R=3"		 R=2 1/4" R=3"		 R=2 1/4" R=3"		 R=1 1/2"		 R=3"		 R=3"		 R=3"							
LETTER & NUMERAL SERIES	1/8" BLACK 5/8" YELLOW		1/4" BLACK 3/4" YELLOW		1/8" BLACK 5/8" YELLOW		1/4" BLACK 3/4" YELLOW		1/8" BLACK 5/8" YELLOW		1/4" BLACK 3/4" YELLOW		1/8" BLACK 5/8" YELLOW		1/4" BLACK 3/4" YELLOW		1/8" BLACK 5/8" YELLOW		1/4" BLACK 3/4" YELLOW		1/8" BLACK 5/8" YELLOW	
WIDTH OF BORDER INSIDE OUTSIDE	36" X 36"		48" X 48"		36" X 36"		48" X 48"		24" X 24"		48" X 60"		48" X 60"		36" DIAMETER							
COLORS COPY BACKGROUND	BLACK YELLOW		BLACK YELLOW		BLACK YELLOW		BLACK YELLOW		BLACK YELLOW		BLACK YELLOW		BLACK YELLOW		BLACK YELLOW							
REFLECTORIZATION	BACKGROUND		BACKGROUND		BACKGROUND		BACKGROUND		BACKGROUND		BACKGROUND		BACKGROUND		BACKGROUND							
NUMBER OF POSTS FOR MOUNTING	1		1		1		1		1		1		1		1							
NUMBER OF HOLES TO BE PUNCHED (3/8" DIA.)	2		4		2		4		2		6		6		2							
PUNCHING DISTANCE FROM EACH VERT. EDGE	VERT. CENTER		15" FROM VERT. CENTER		VERT. CENTER		15" FROM VERT. CENTER		12" (VERT. CENTER)		9"		9"		15"							
PUNCHING DISTANCE FROM TOP EDGE	18" FROM HORIZ. CENTER		15" FROM HORIZ. CENTER		18" FROM HORIZ. CENTER		15" FROM HORIZ. CENTER		3"; 21"		4"; 30"; 56"		4"; 30"; 56"		15" FROM HORIZ. CENTER							
GENERAL NOTES:																						
1. THE QUANTITIES LISTED ON THE SUMMARY OF QUANTITIES SHEET FOR THE SIGNS SHOWN ON THIS SHEET WILL BE USED AS THE BASIS FOR FINAL PAYMENT, EXCEPT WHERE SIGNS ARE MODIFIED FROM THAT SHOWN.																						
2. SIGNS W13-2 AND W13-3- THE STROKE WIDTH OF THE LETTER AND NUMERALS SHALL BE WIDENED TO 20% OF THE LETTER OR NUMERAL HEIGHT.																						
3. THE SPEEDS REQUIRED ON SIGNS W13-1, W13-2 AND W13-3 WILL BE SHOWN ON INDIVIDUAL PLAN SHEETS.																						
																BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN					
																REVISION	STANDARD ROADSIDE SIGNS					
																DATE	ISSUE DATE: AUGUST 01, 2017					
																	MDOT MISSISSIPPI DEPARTMENT OF TRANSPORTATION WORKING NUMBER SN-3B SHEET NUMBER 6305					



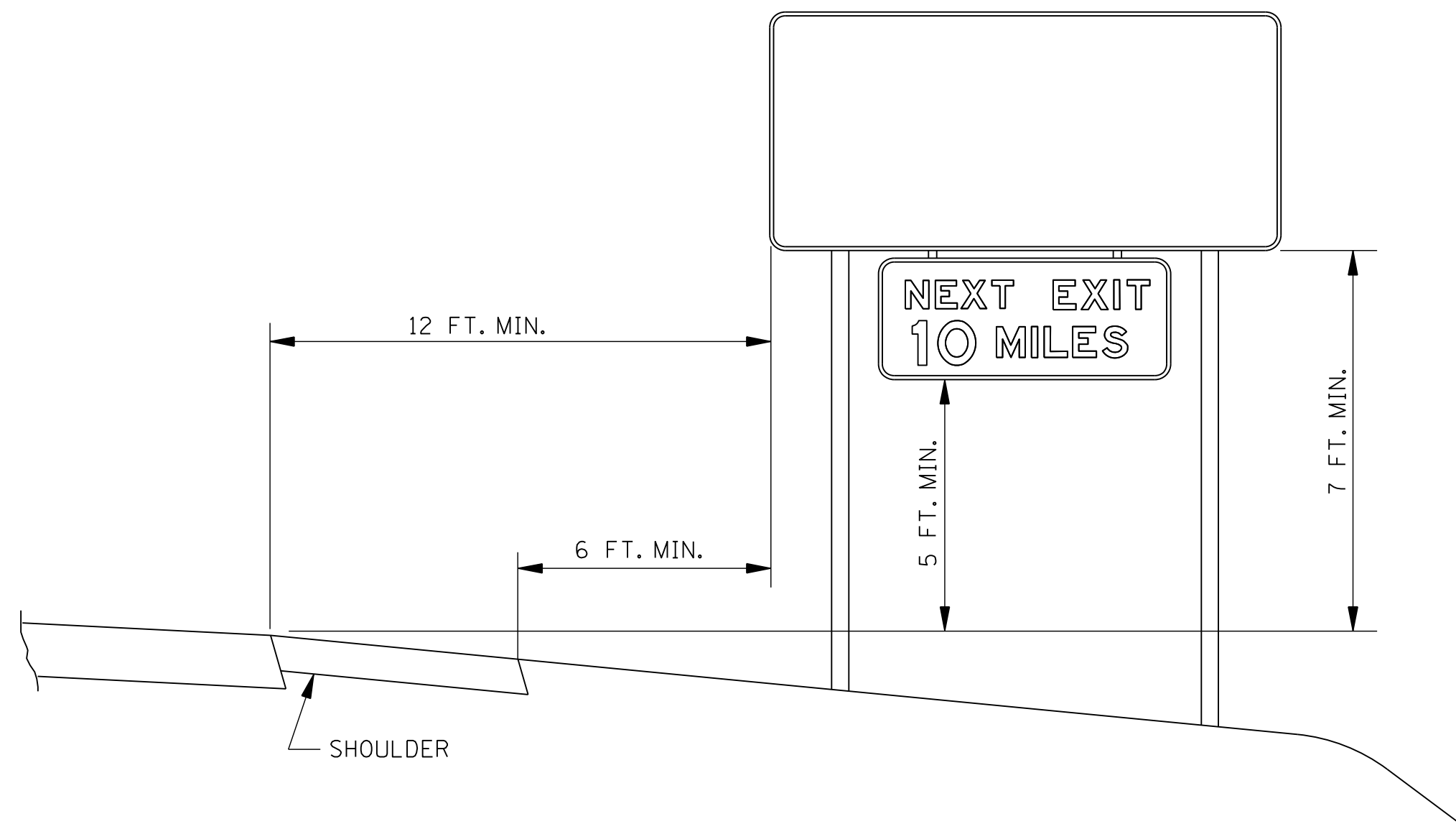
ROADSIDE SIGN IN BUSINESS,
COMMERCIAL, OR RESIDENTIAL AREA



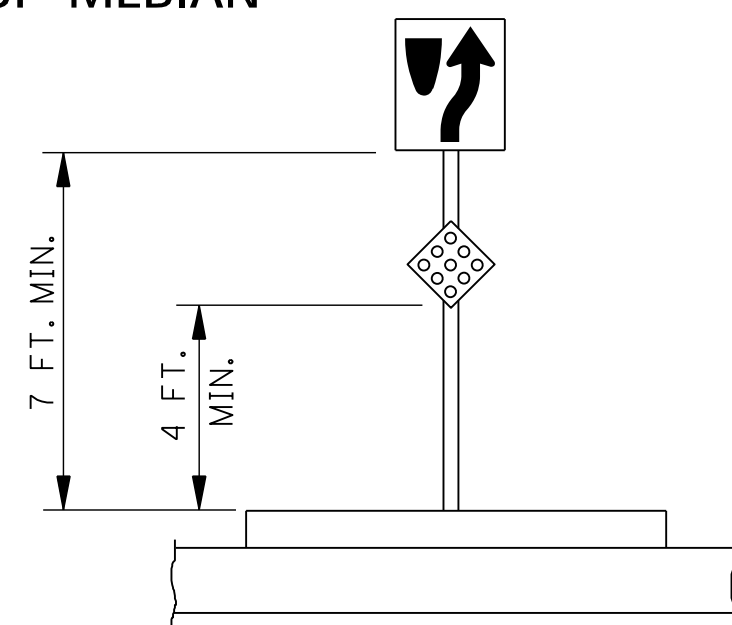
* THE 2 FT. MINIMUM OFFSET APPLIES ONLY TO STANDARD SIGNS MOUNTED ON U-POSTS. ALL STANDARD SIGNS MOUNTED ON PIPE WILL BE OFFSET A MINIMUM OF 4 FT.. RAMP DESTINATION SIGNS WILL BE OFFSET 4 FT. FROM THE SHOULDERS.



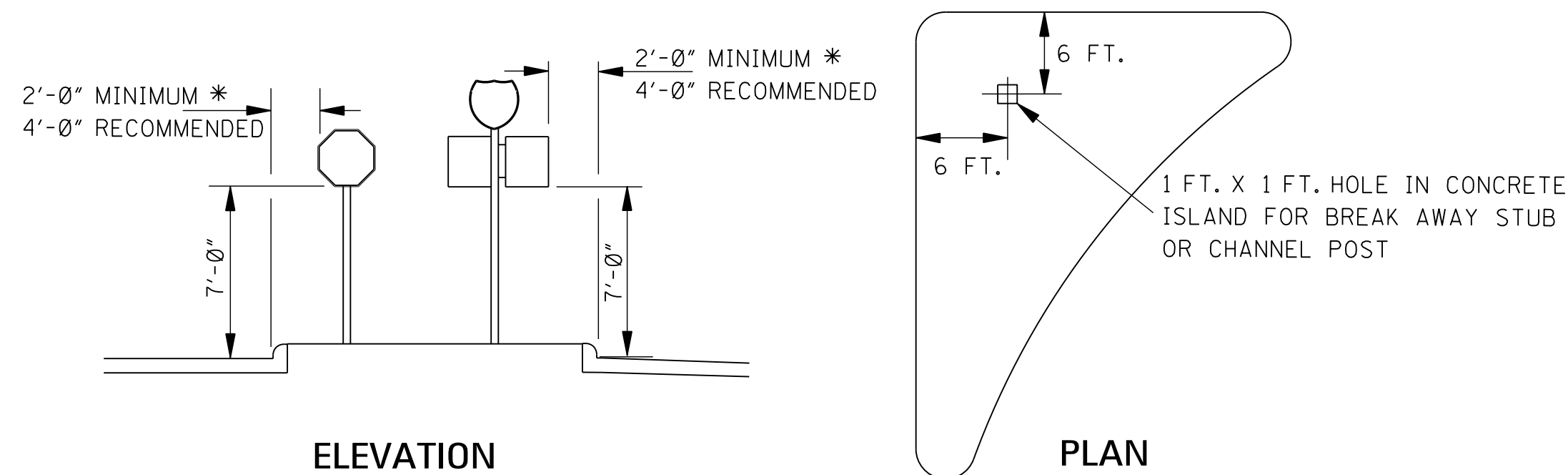
INTERSTATE OR FREEWAY SIGN WITH SECONDARY SIGN



SIGN ON NOSE
OF MEDIAN



SIGNS IN ISLANDS OR BEHIND CURB USING U-POSTS OR PIPE POSTS

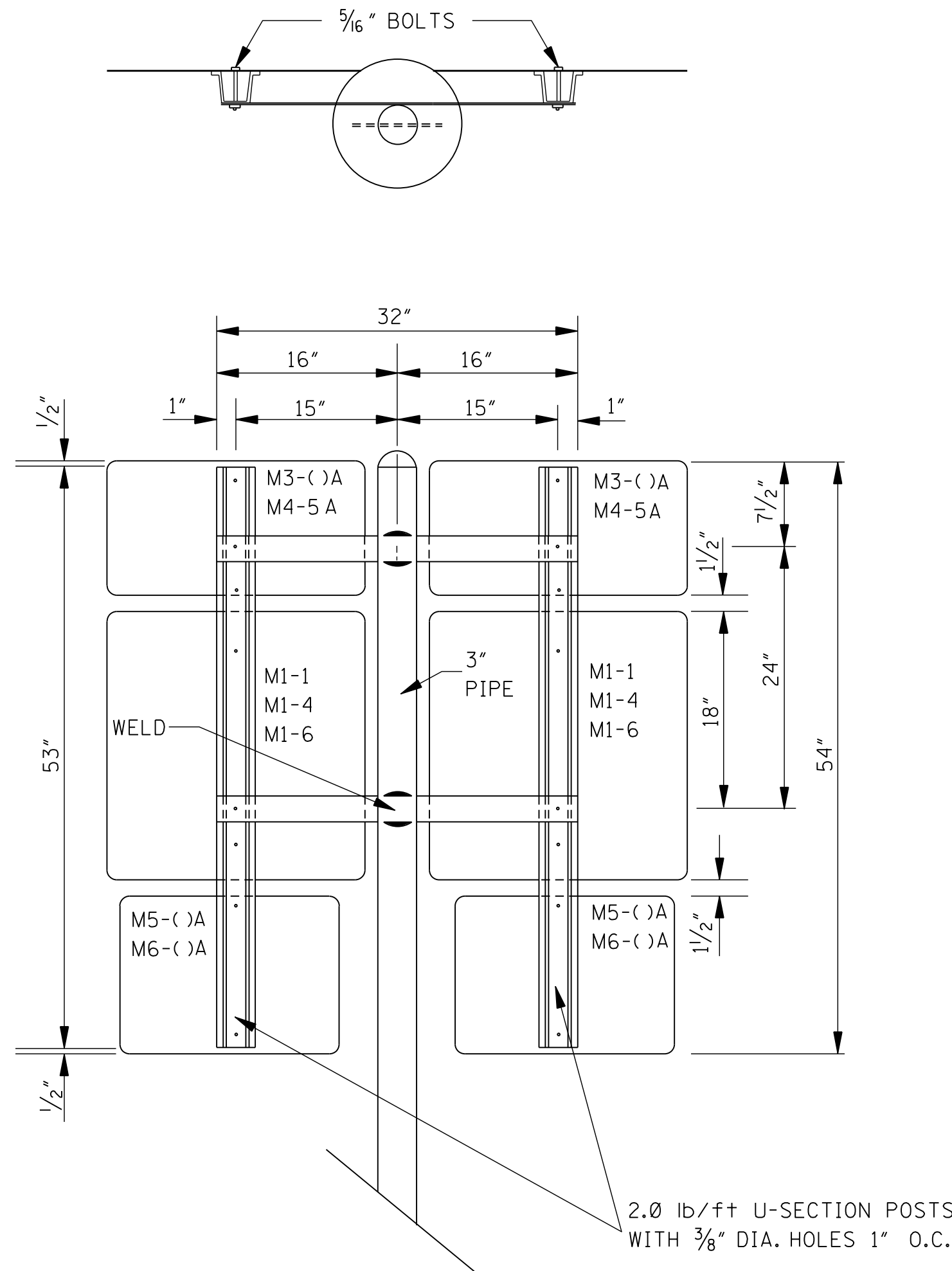


GENERAL NOTES:

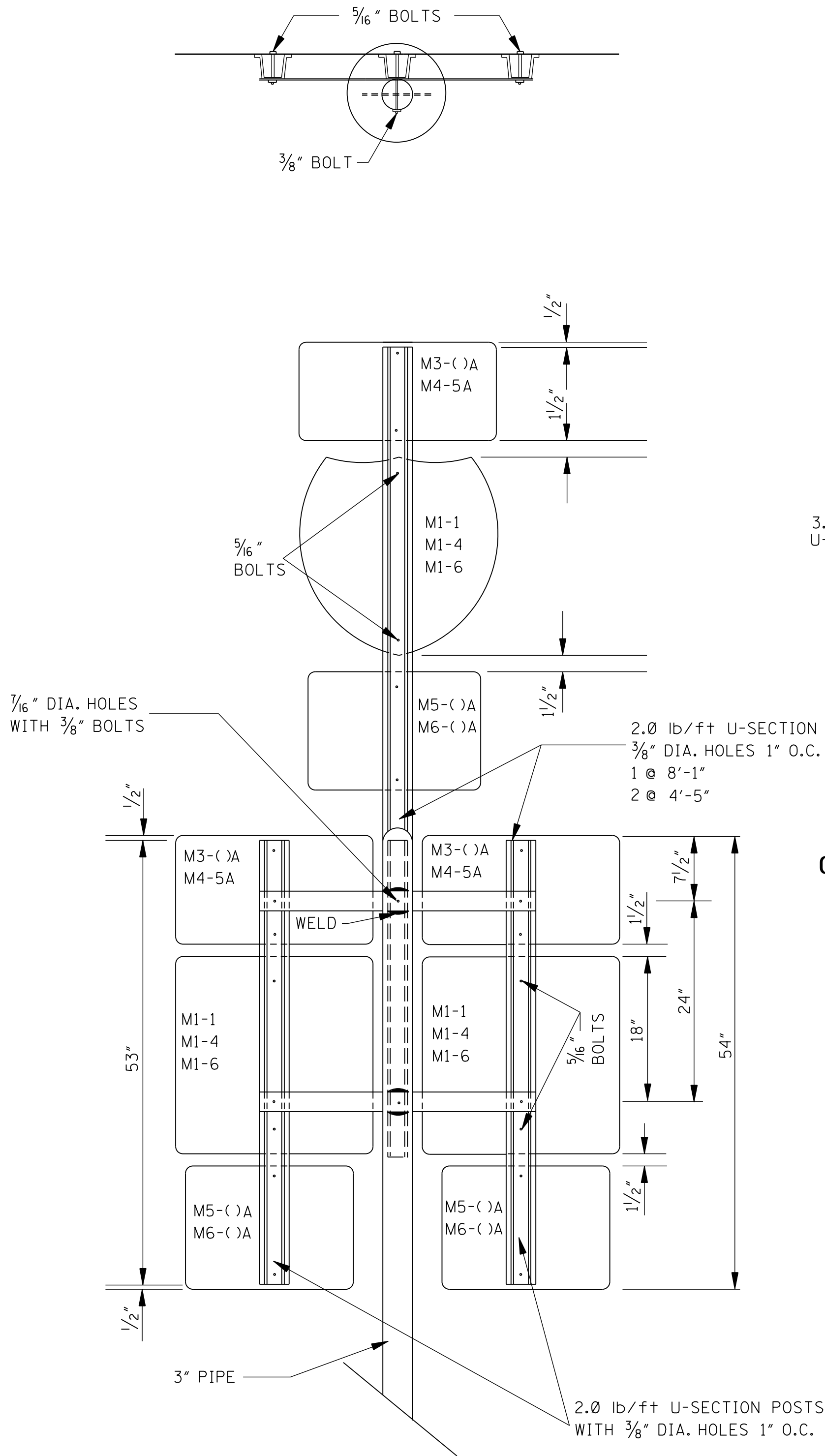
- SEE SECTION 2A-19 OF THE MUTCD FOR REDUCED LATERAL OFFSET DISTANCES THAT MAY BE USED IN AREAS WHERE LATERAL OFFSETS ARE LIMITED, AND IN BUSINESS, COMMERCIAL, OR RESIDENTIAL AREAS WHERE SIDEWALK WIDTH IS LIMITED OR WHERE EXISTING POLES ARE CLOSE TO THE CURB.
- SIGNS SHALL BE LOCATED OUTSIDE THE CLEAR ZONE UNLESS PLACED ON A BREAKAWAY OR YIELDING SUPPORT.

* THE 2 FT. MINIMUM OFFSET APPLIES ONLY TO STANDARD SIGNS MOUNTED ON U-POSTS. ALL STANDARD SIGNS MOUNTED ON PIPE WILL BE OFFSET A MINIMUM OF 4 FT.. RAMP DESTINATION SIGNS WILL BE OFFSET 4 FT. FROM THE SHOULDERS.

				BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN
				REVISION	STANDARD ROADSIDE SIGN ASSEMBLY AND INSTALLATION
				DATE	ISSUE DATE: AUGUST 01, 2017
					MDOT WORKING NUMBER SN-4 SHEET NUMBER 6306

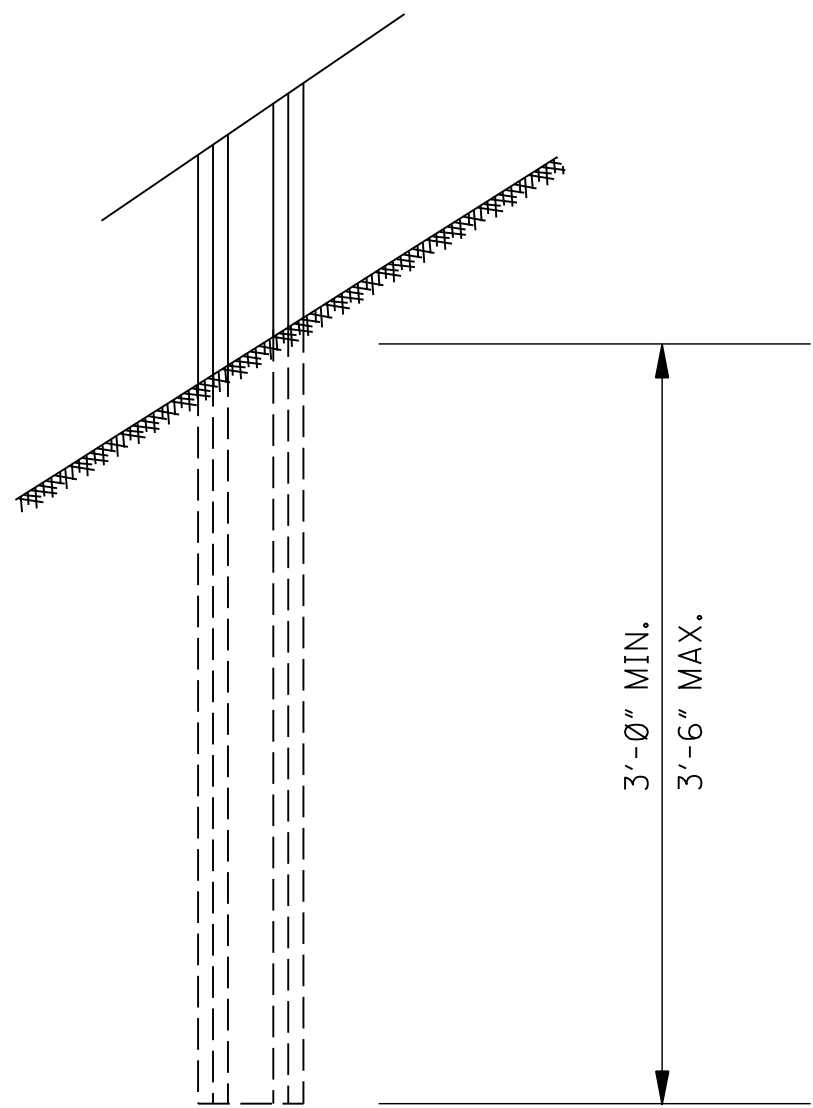
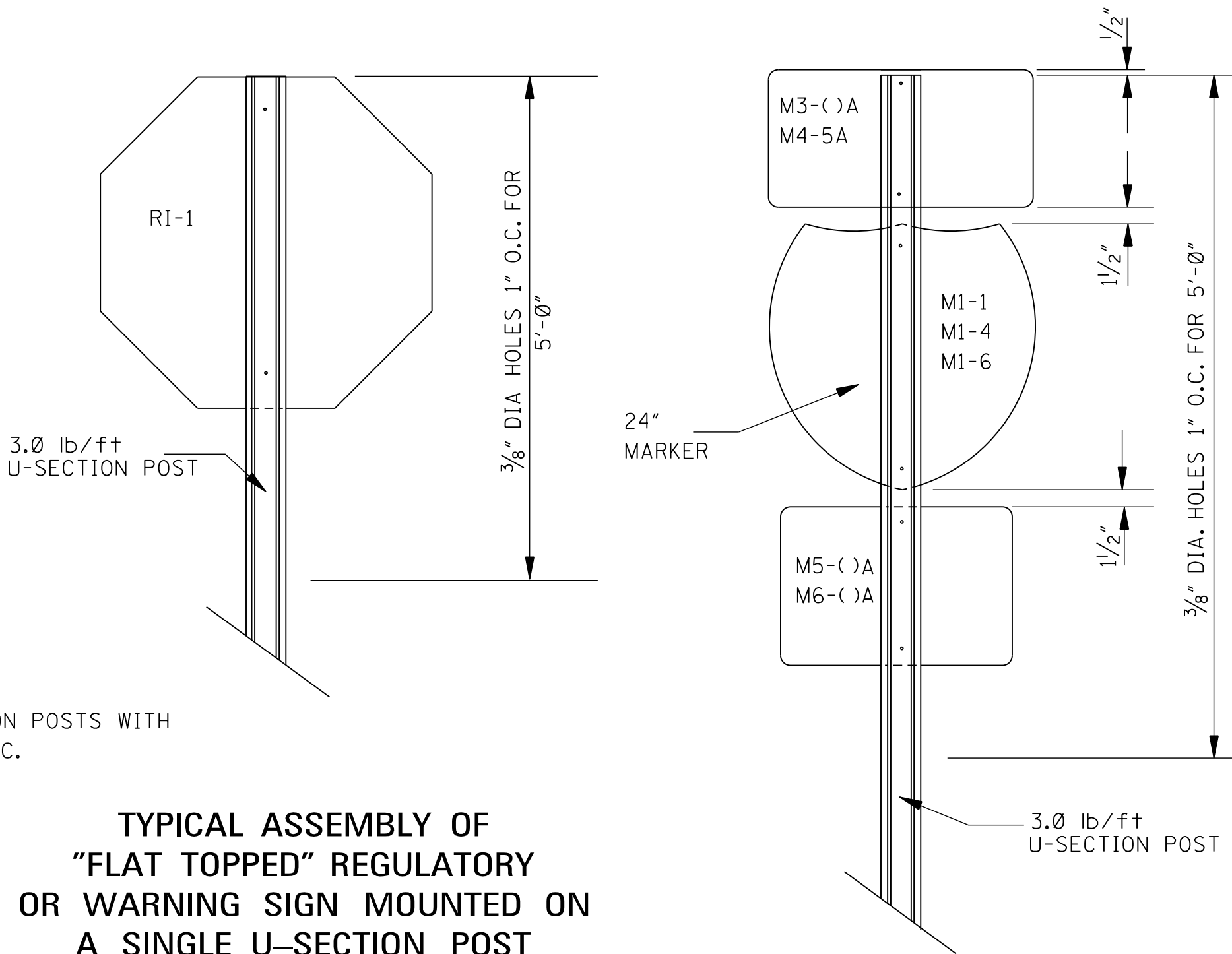


TYPICAL ROUTE ASSEMBLY

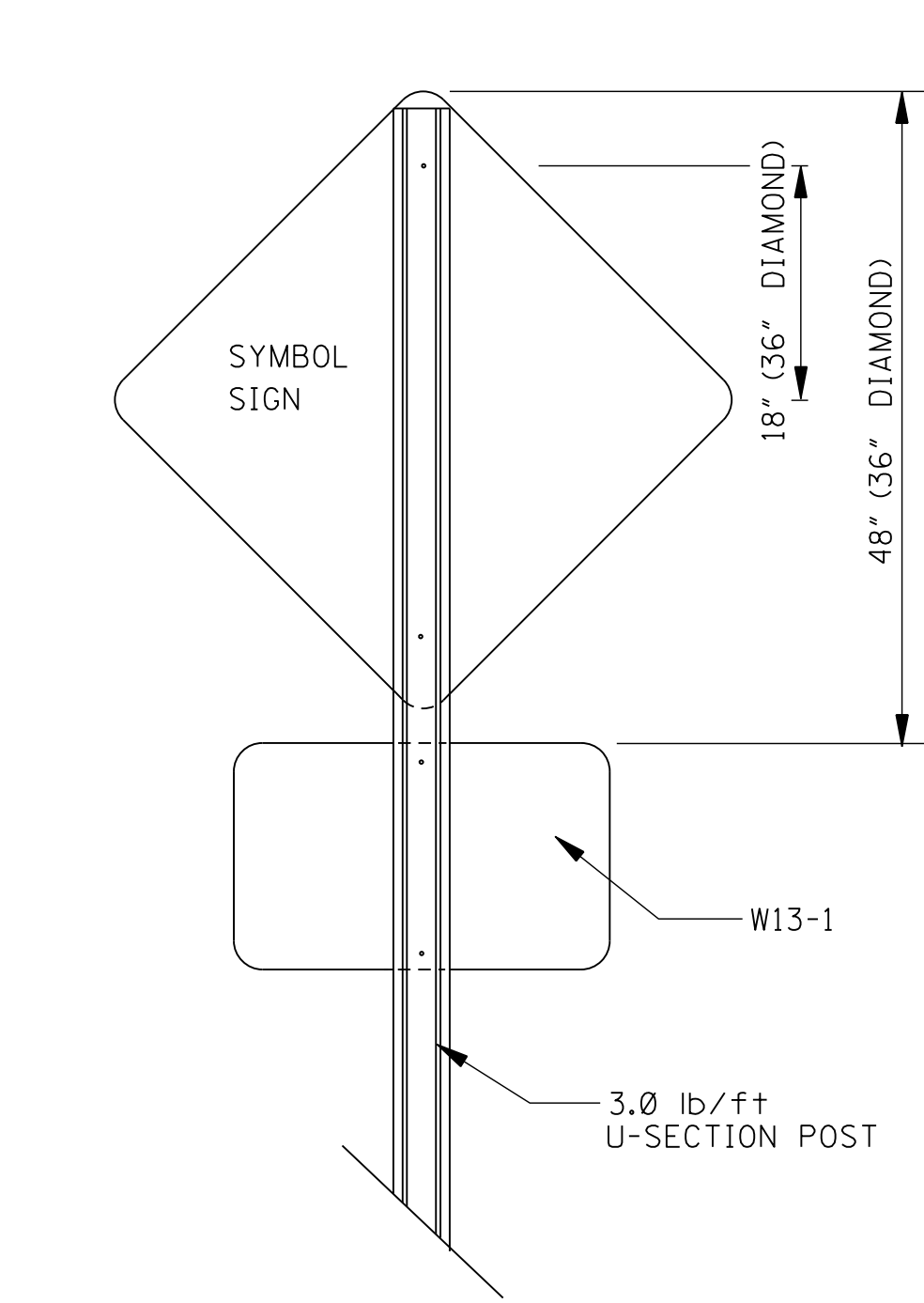


TYPICAL STACKED ROUTE ASSEMBLY

TYPICAL ASSEMBLY OF
"FLAT TOPPED" REGULATORY
OR WARNING SIGN MOUNTED ON
A SINGLE U-SECTION POST



FOOTING DETAIL FOR
U-SECTION POSTS



GENERAL NOTES:

- UNLESS OTHERWISE SPECIFIED, HORIZONTAL BRACES ARE 7/16" X 2 1/2" X VARIABLE LENGTH FLAT STEEL BARS. BARS ARE WELDED TO PIPE AS SHOWN. WHEN FABRICATION IS COMPLETE, POST SHALL BE GALVANIZED AS PER SECTION 630 OF THE STANDARD SPECIFICATION.
- HOLES IN FLAT BARS ARE 3/8" DIAMETER.
- SIGNS ARE FASTENED TO FLAT BARS AND U-SECTION POST WITH 5/16" BOLTS, WITH FLAT WASHER AND LOCK-NUTS.
- GROUND PLATE NOT REQUIRED ON U-SECTION POST.
- SEE WK. NO. SN-4B FOR DETAIL OF 3" PIPE FOOTING DETAIL.

				BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN
				REVISION	
				DATE	ISSUE DATE: AUGUST 01, 2017

**STANDARD
ROADSIDE SIGN
ASSEMBLY AND
INSTALLATION**

MDOT
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

WORKING NUMBER
SN-4A

SHEET NUMBER
6307

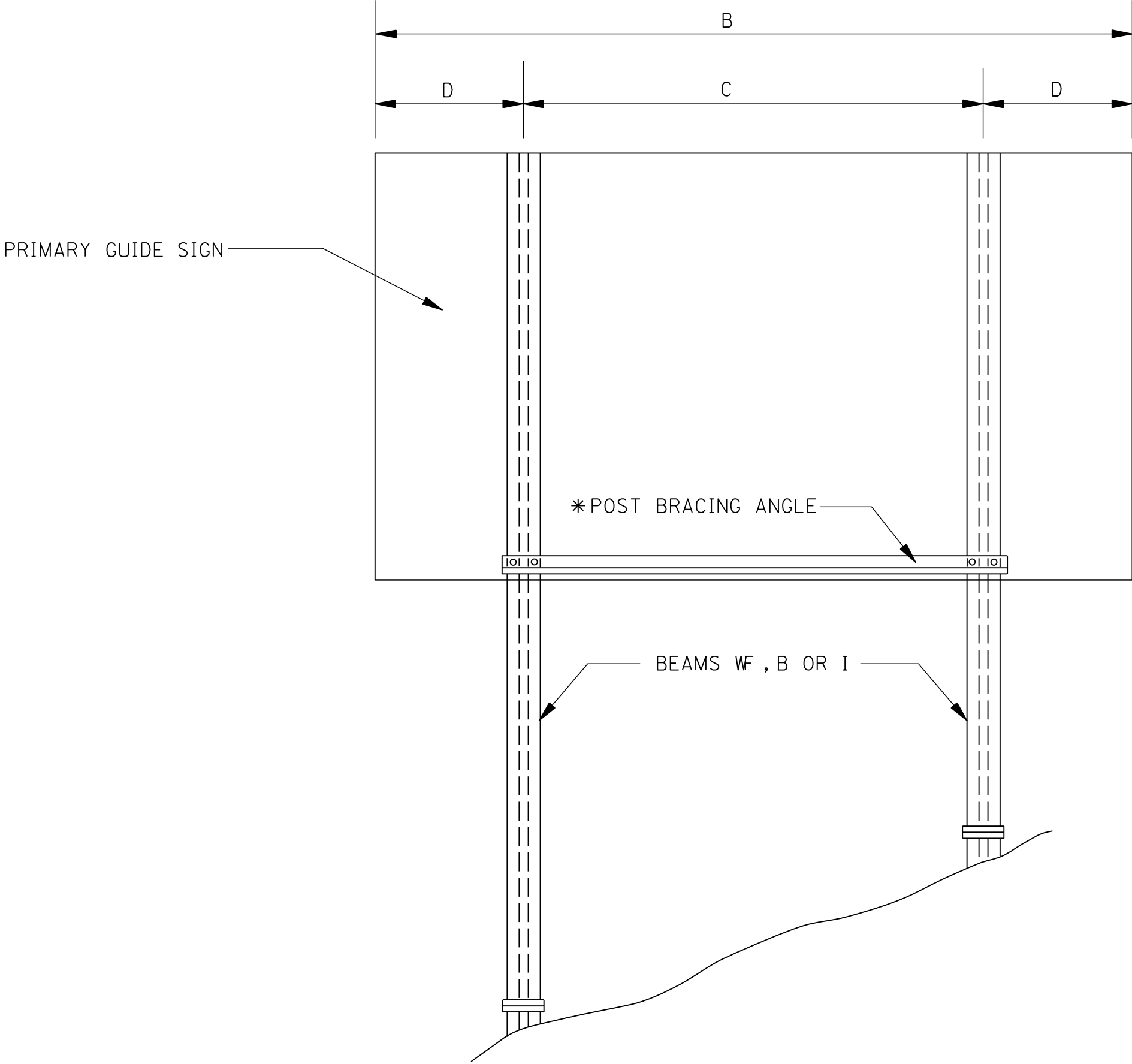
GENERAL NOTES FOR WORKING SHEETS SN-6, SN-6A AND SN-6B:

1. **FOOTING**
ALL FOOTINGS SHALL BE CLASS "B" CONCRETE. POST STUBS SHALL BE SET IN CONCRETE FOOTING AT REQUIRED GRADE AND ALIGNMENT WITH CARE SO THAT MINIMUM SHIMMING WILL BE REQUIRED.
2. **BASE CONNECTION PROCEDURE**
ASSEMBLE POST TO STUB WITH BOLTS AND WITH A FLAT WASHER ON EACH BOLT BETWEEN PLATES. SHIM AS REQUIRED TO PLUMB POST. TIGHTEN ALL BOLTS THE MAXIMUM POSSIBLE WITH A 12" TO 15" WRENCH TO BED WASHERS AND SHIMS AND TO CLEAN BOLT THREADS. THEN LOOSEN EACH BOLT IN TURN AND RETIGHTEN IN A SYSTEMATIC ORDER TO THE PRESCRIBED TORQUE AS SHOWN BY TABLE. BURR THREADS AT JUNCTION WITH NUT USING A CENTER PUNCH. HIGH STRENGTH BOLTS IN BASE CONNECTIONS SHALL BE TIGHTENED TO TORQUE AS SHOWN BY TABLE ON SN-6A. DO NOT OVER TIGHTEN!
3. **POST LENGTH**
ALL POST LENGTHS SHALL BE VERIFIED AND APPROVED BY THE ENGINEER PRIOR TO FABRICATION. WHERE FIELD CONDITIONS REQUIRE THE POST LENGTH TO VARY MORE THAN 12", IT MAY BE NECESSARY TO CHANGE THE SIZE OR NUMBER OF POSTS. SUCH DETERMINATION WILL BE MADE BY THE STATE TRAFFIC ENGINEER. ANY CHANGE OF SIZE OR NUMBER OF POSTS SHALL NOT BE JUSTIFICATION FOR ANY CONTRACT PRICE ADJUSTMENTS.
4. **FABRICATOR NOTE**
IMPORTANT- ALL FRICTION FUSE BOLTS SHALL BE TIGHTENED IN SHOP BY A METHOD APPROVED BY THE BRIDGE DESIGN ENGINEER. TIGHTENING SHALL BE TO SUCH A DEGREE AS TO PROVIDE THE MINIMUM TENSION IN EACH BOLT WHEN ALL BOLTS ARE TIGHT, AS SHOWN BY TABLE SN-6A.
5. ALL HOLES IN FUSE PLATES AND HINGE PLATES SHALL BE DRILLED.
6. ALL PLATE CUTS SHOULD BE SAW CUTS. FLAME CUTTING WILL BE PERMITTED PROVIDED ALL EDGES ARE GROUND. METAL PROJECTING BEYOND THE PLANE OF THE PLATE FACE WILL NOT BE ACCEPTABLE.
7. **WELDING FOR STEEL SIGN SUPPORTS**
WELDING SHALL BE PERFORMED IN SHOP BY ELECTRIC ARC PROCESS.
8. **MATERIAL SPECIFICATIONS**
THE MATERIALS USED IN THE CONSTRUCTION OF THE GROUND MOUNTED SIGN SUPPORT STRUCTURES, AS LISTED BELOW, SHALL CONFORM WITH THE REQUIREMENTS OF THE DESIGNATED ASTM SPECIFICATION. ALL OTHER MATERIALS, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIFICATIONS, EXCEPT AS OTHERWISE NOTED ON THE PLANS.

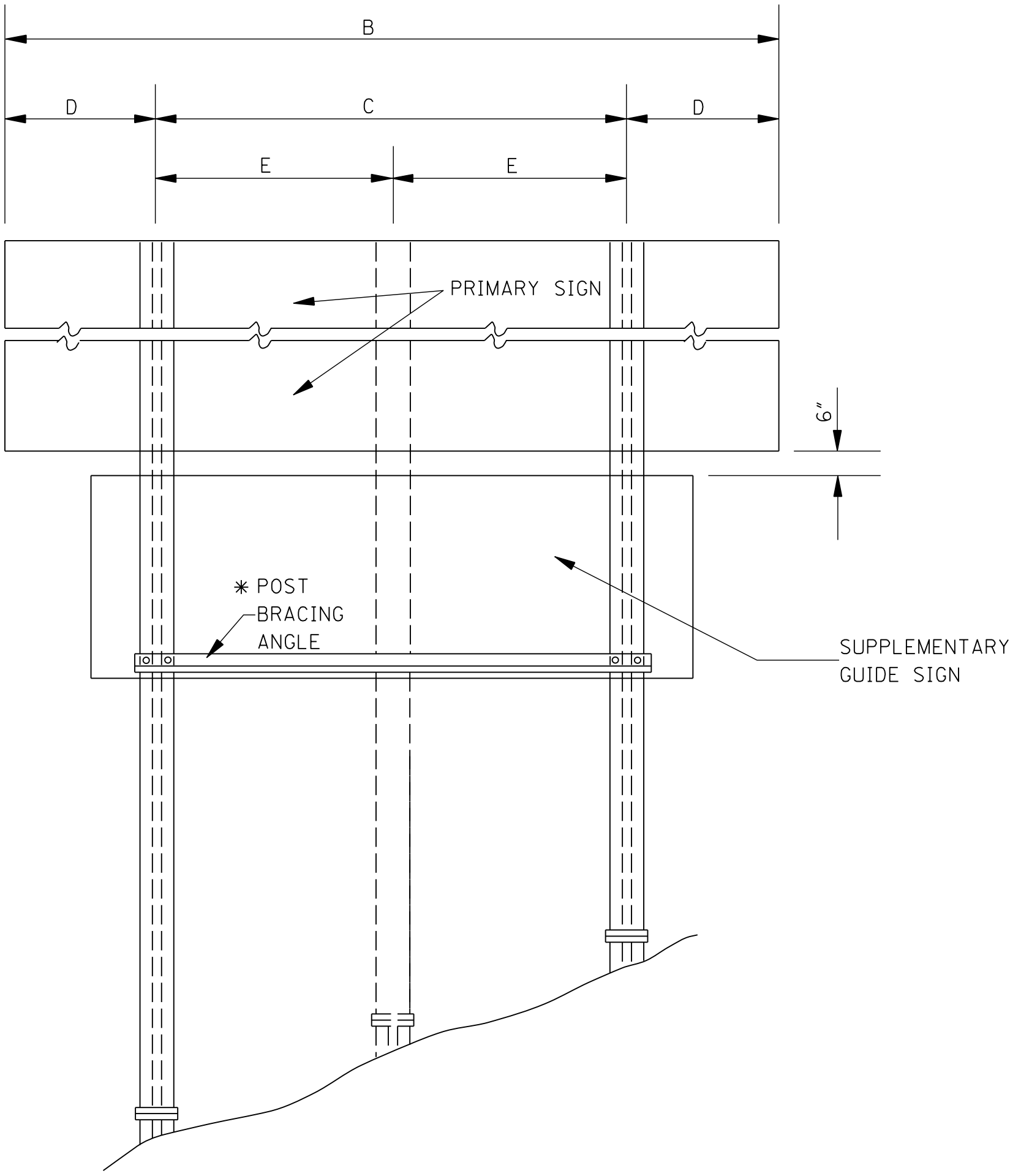
DESCRIPTION	MATERIALS PER ASTM DESIGNATION	GALVANIZE ① PER ASTM DESIGNATION
POSTS OF STEEL PIPE	A 53 (GRADE "B") ②	A 53
BASE CONNECTION PLATES FOR PIPES	A 36	A 123
POSTS OF STEEL WF, B, AND I BEAMS INCLUDING BASE CONNECTION, FUSE AND HINGE PLATES	A 588 OR A 572 GRADE 50	A 123
POST BRACING ANGLES AND FLAT BARS USED IN FABRICATION AND ERECTION OF SIGN SUPPORTS	A 36	A 123
HIGH STRENGTH BOLTS, NUTS AND WASHERS	A 325	A 153
BOLTS OTHER THAN HIGH STRENGTH ③	A 307 (GRADE "A")	A 153

- ① ALL STEEL SHALL BE GALVANIZED AFTER FABRICATION EXCEPT AS NOTED ON THE PLANS.
- ② PIPES MAY BE WELDED OR SEAMLESS.
- ③ BOLTS, WASHERS, AND NUTS USED FOR FASTENING ALUMINUM SIGN SHEETS AND PANELS SHALL BE ALUMINUM AS PER FOLLOWING TABLE.

DESCRIPTION	ASTM DESIGNATION	ALLOY
BOLTS AND WASHERS	B 209	2024-T4
PANEL BOLT NUTS	B 211	6061-T6
STOP NUTS	B 211	2017-T4



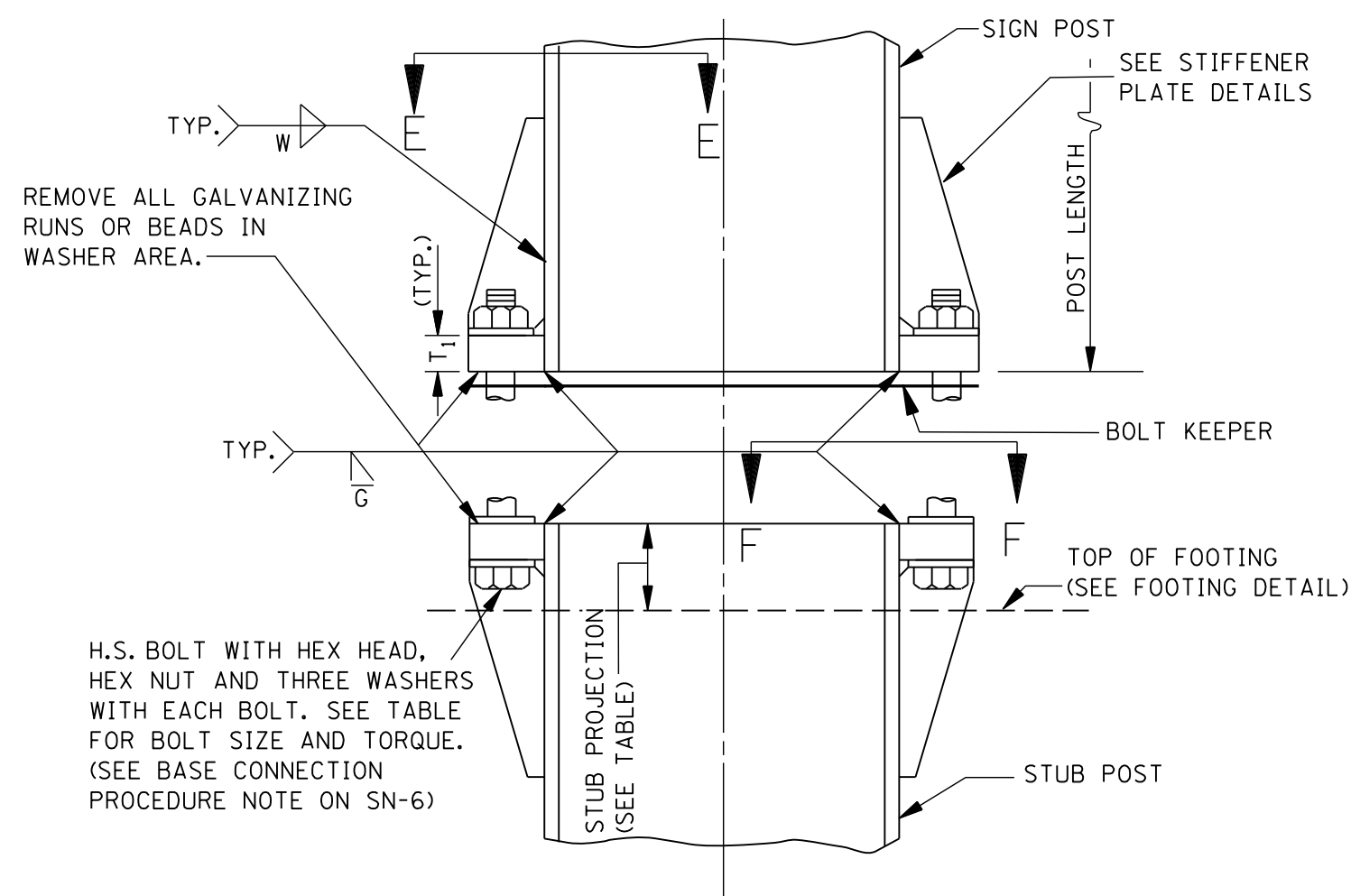
TYPICAL 2-POST INSTALLATION
WITHOUT EXIT SIGN



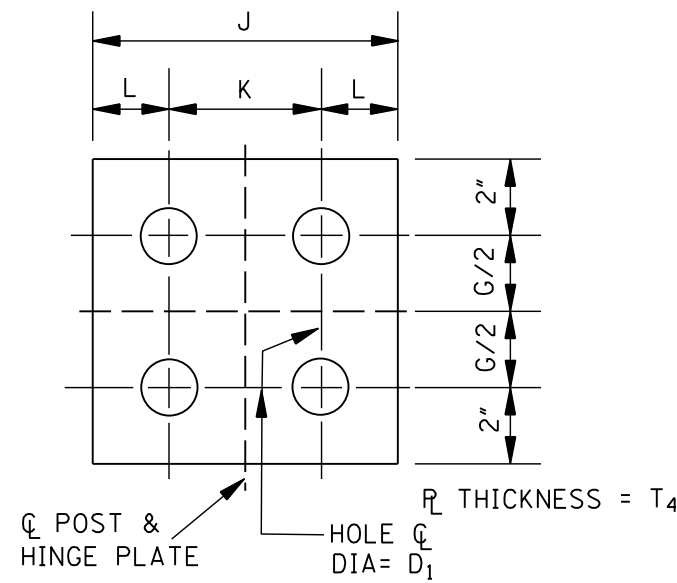
TYPICAL 2 OR 3 POST INSTALLATION
WITH SUPPLEMENTARY GUIDE SIGN
AND POST BRACING ANGLE LOCATION

* NOTE: PLACE POST BRACING ANGLE AT BOTTOM OF PRIMARY OR SUPPLEMENTARY SIGN WHICHEVER IS LOWER.
(SEE "END ELEVATION OF POST AND FOOTING" ON SN-6A.)

SIGN POST SPACING TABLE									
2 POST			2 POST (CONT'D)			3 POST			
"B"	"C"	"D"	"B"	"C"	"D"	"B"	"C"	"D"	"E"
4'-0"	2'-0"	1'-0"	14'-6"	8'-9"	2'-10 1/2"	20'-0"	14'-0"	3'-0"	7'-0"
4'-6"	2'-6"	1'-0"	15'-0"	9'-0"	3'-0"	20'-6"	14'-3"	3'-1 1/2"	7'-1 1/2"
5'-0"	3'-0"	1'-0"	15'-6"	9'-3"	3'-1 1/2"	21'-0"	14'-9"	3'-1 1/2"	7'-4 1/2"
5'-6"	3'-6"	1'-0"	16'-0"	9'-6"	3'-3"	21'-6"	15'-0"	3'-3"	7'-6"
6'-0"	4'-0"	1'-0"	16'-6"	10'-0"	3'-3"	22'-0"	15'-6"	3'-3"	7'-9"
6'-6"	4'-6"	1'-0"	17'-0"	10'-3"	3'-4 1/2"	22'-6"	15'-9"	3'-4 1/2"	7'-10 1/2"
7'-0"	5'-0"	1'-0"	17'-6"	10'-6"	3'-6"	23'-0"	16'-0"	3'-6"	8'-0"
7'-6"	5'-6"	1'-0"	18'-0"	10'-9"	3'-7 1/2"	23'-6"	16'-6"	3'-6"	8'-3"
8'-0"	6'-0"	1'-0"	18'-6"	11'-0"	3'-9"	24'-0"	16'-9"	3'-7 1/2"	8'-4 1/2"
8'-6"	6'-6"	1'-0"	19'-0"	11'-6"	3'-9"	24'-6"	17'-3"	3'-7 1/2"	8'-7 1/2"
9'-0"	7'-0"	1'-0"	19'-6"	11'-9"	3'-10 1/2"	25'-0"	17'-6"	3'-9"	8'-9"
9'-6"	7'-6"	1'-3"	20'-0"	12'-0"	4'-0"	25'-6"	17'-9"	3'-10 1/2"	8'-10 1/2"
10'-0"	7'-0"	1'-6"	20'-6"	12'-3"	4'-1 1/2"	26'-0"	18'-3"	3'-10 1/2"	9'-1 1/2"
10'-6"	7'-0"	1'-9"	21'-0"	12'-6"	4'-3"	26'-6"	18'-6"	4'-0"	9'-3"
11'-0"	7'-0"	2'-0"	21'-6"	13'-0"	4'-3"	27'-0"	19'-0"	4'-0"	9'-6"
11'-6"	7'-0"	2'-3"	22'-0"	13'-3"	4'-4 1/2"	27'-6"	19'-3"	4'-1 1/2"	9'-7 1/2"
12'-0"	7'-3"	2'-4 1/2"	22'-6"	13'-6"	4'-6"	28'-0"	19'-6"	4'-3"	9'-9"
12'-6"	7'-6"	2'-6"	23'-0"	13'-9"	4'-7 1/2"	28'-6"	20'-0"	4'-3"	10'-0"
13'-0"	7'-9"	2'-7 1/2"	23'-6"	14'-0"	4'-9"	29'-0"	20'-3"	4'-4 1/2"	10'-1 1/2"
13'-6"	8'-0"	2'-9"	24'-0"	14'-6"	4'-9"	29'-6"	20'-6"	4'-6"	10'-3"
14'-0"	8'-6"	2'-9"				30'-0"	21'-0"	4'-6"	10'-6"

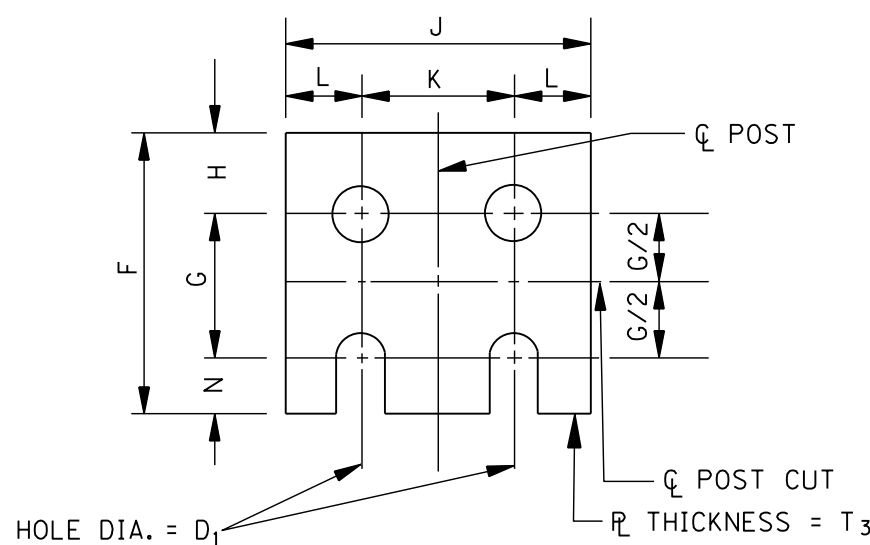


BASE CONNECTION DETAILS FOR W SHAPED POSTS



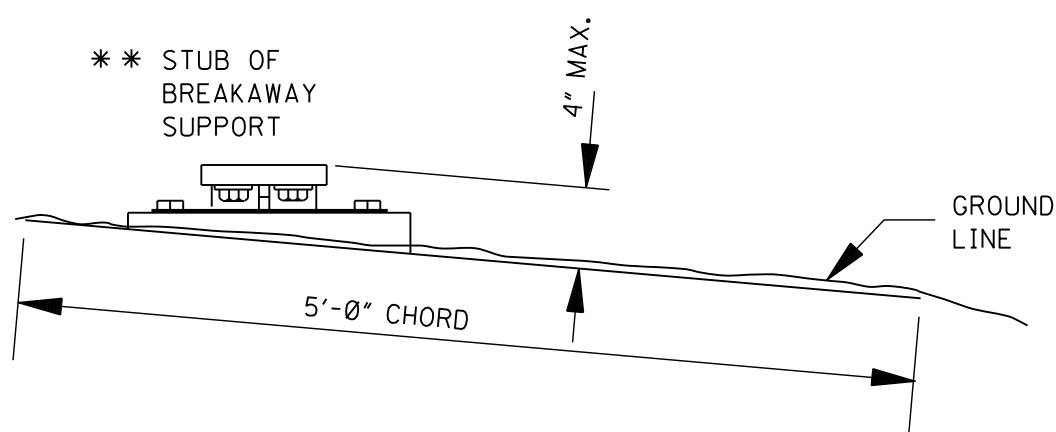
HINGE PLATE

NOTE: INSTALLATION SIMILAR
TO DETAIL "A", FUSE PLATE.

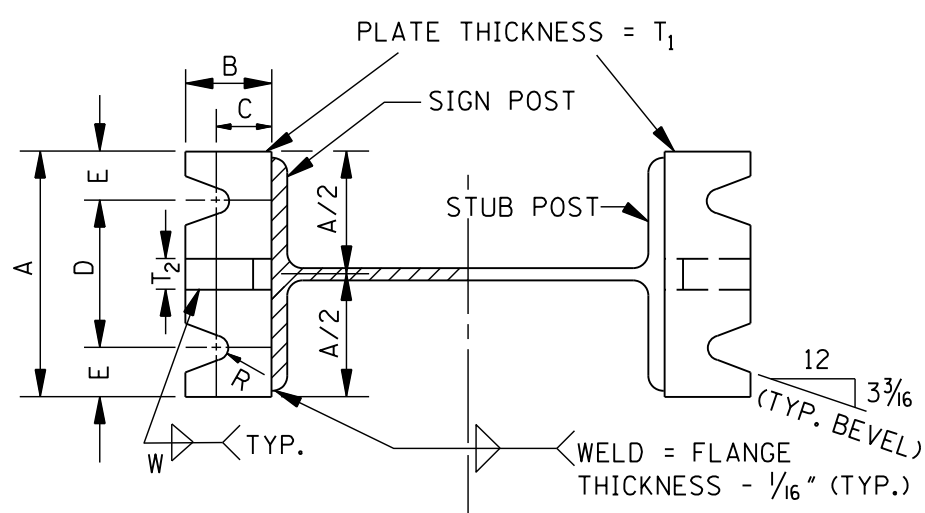


FUSE PLATE DETAIL

NOTE: SEE TABLE FOR DIMENSIONS. USE H.S. BOLTS WITH HEX HEAD, HEX NUTS, ONE FLAT WASHER UNDER EACH BOLT HEAD AND BEVEL OR FLAT WASHERS (WHERE REQUIRED) UNDER NUTS.

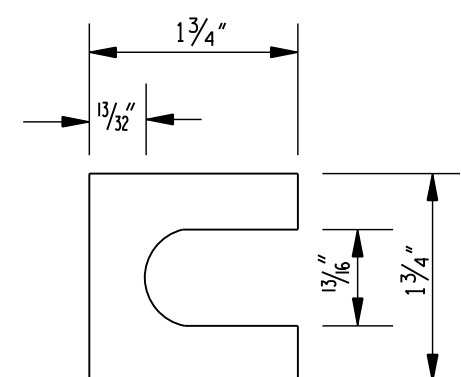


BREAKAWAY SUPPORT STUD CLEARANCE DIAGRAM



SECTION E-E SECTION F-F

NOTE: SEE TABLE FOR DIMENSIONS



SHIM DETAIL

NOTE: FURNISH 2-0.012" ± THICK AND 2-0.032" ± THICK SHIMS PER POST. SHIMS SHALL BE FABRICATED FROM BRASS SHIM STOCK OR STRIP CONFORMING TO ASTM B 36.

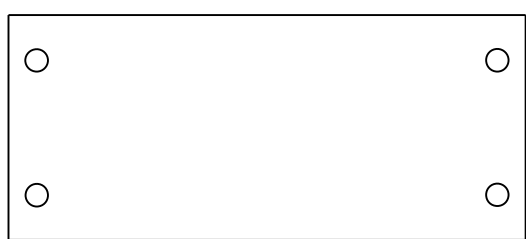
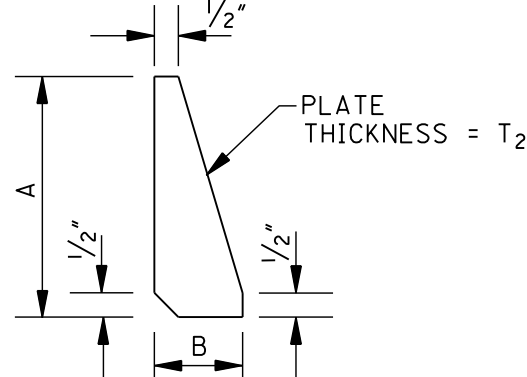


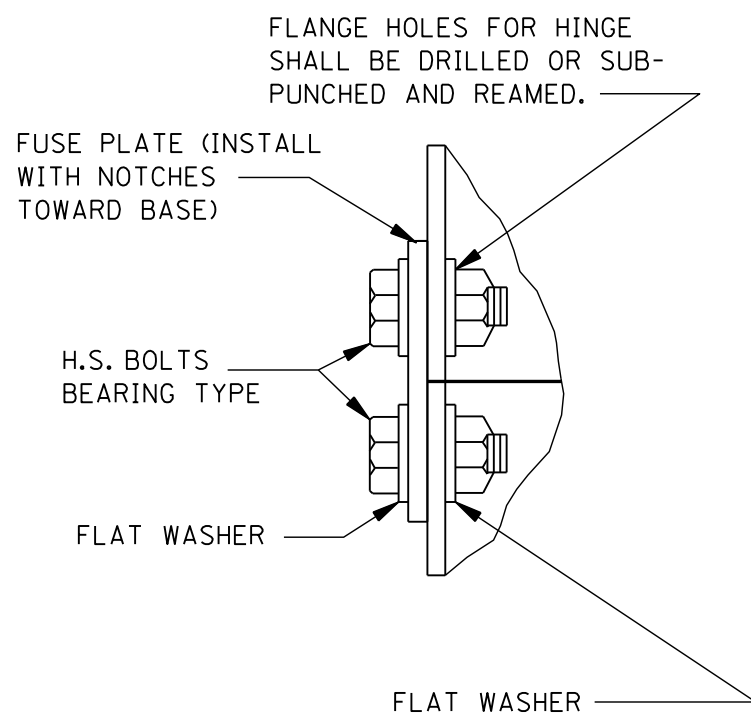
DIAGRAM OF "BOLT KEEPER"

NOTE: FABRICATED FROM 28 GAGE GALVANIZED
STEEL. REQUIRED BETWEEN BASE PLATE AND STUB POST
PLATE DIMENSIONED AS REQUIRED FOR EACH INSTALLATION.



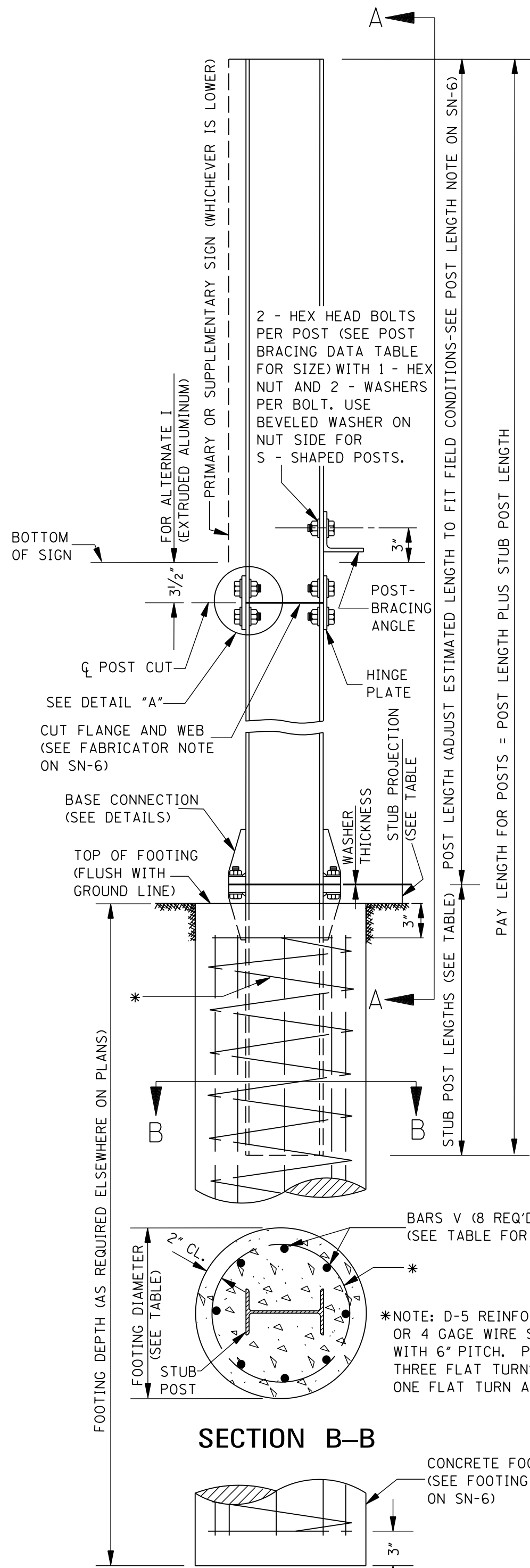
STIFFENER PLATE DETAIL

NOTE: SEE TABLE FOR DIMENSIONS

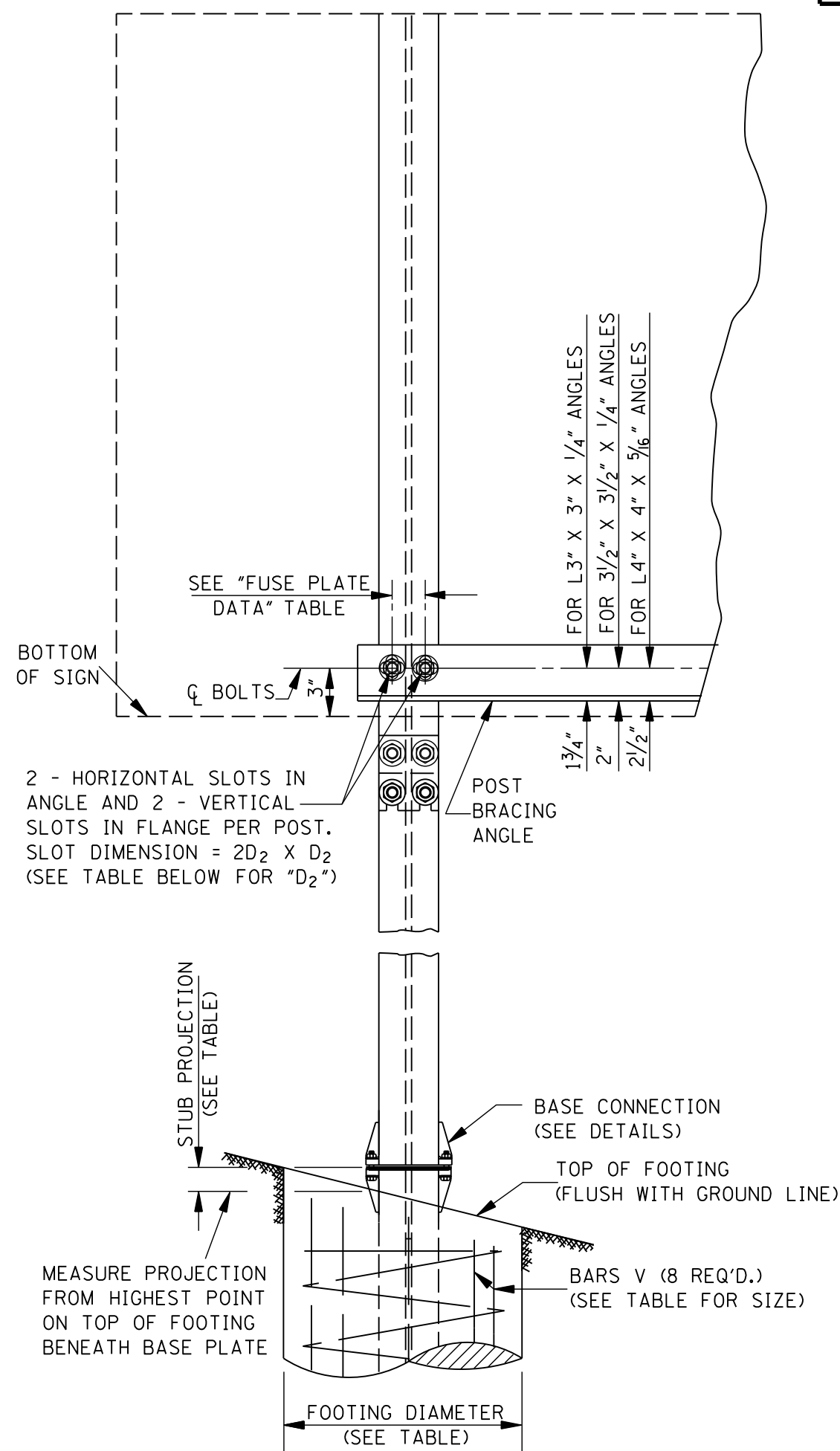


DETAIL "A", FUSE PLATE

NOTE: SEE FABRICATOR NOTE ON SN-6.



END ELEVATION OF POST AND FOOTING



SECTION A-A

GENERAL NOTE:

1. SEE SN-6 FOR GENERAL NOTES.

POST BRACING DATA				
POST SIZE		W12 X 26 W10 X 26 W10 X 22	W8 X 21 W8 X 18 W6 X 15	W6 X 9 W6 X 12
DESCRIPTION				
BOLT SIZE		7/8" X 2 1/4"	3/4" X 2"	1/2" X 1 3/4"
D ₂		1 5/16"	1 1/8"	7/8"
ANGLE LENGTH		Z + 9"	Z + 8"	Z + 6"
ANGLE SIZE FOR POST SPACING OF	0'-9'	L4" X 4" X 5/16"	L3 1/2" X 3 1/2" X 1/4"	L3" X 3" X 1/4"
	9'-11'	L4" X 4" X 5/16"	L3 1/2" X 3 1/2" X 1/4"	L3 1/2" X 3 1/2" X 1/4"
	11'-18'	L4" X 4" X 5/16"	L4" X 4" X 5/16"	L4" X 4" X 5/16"

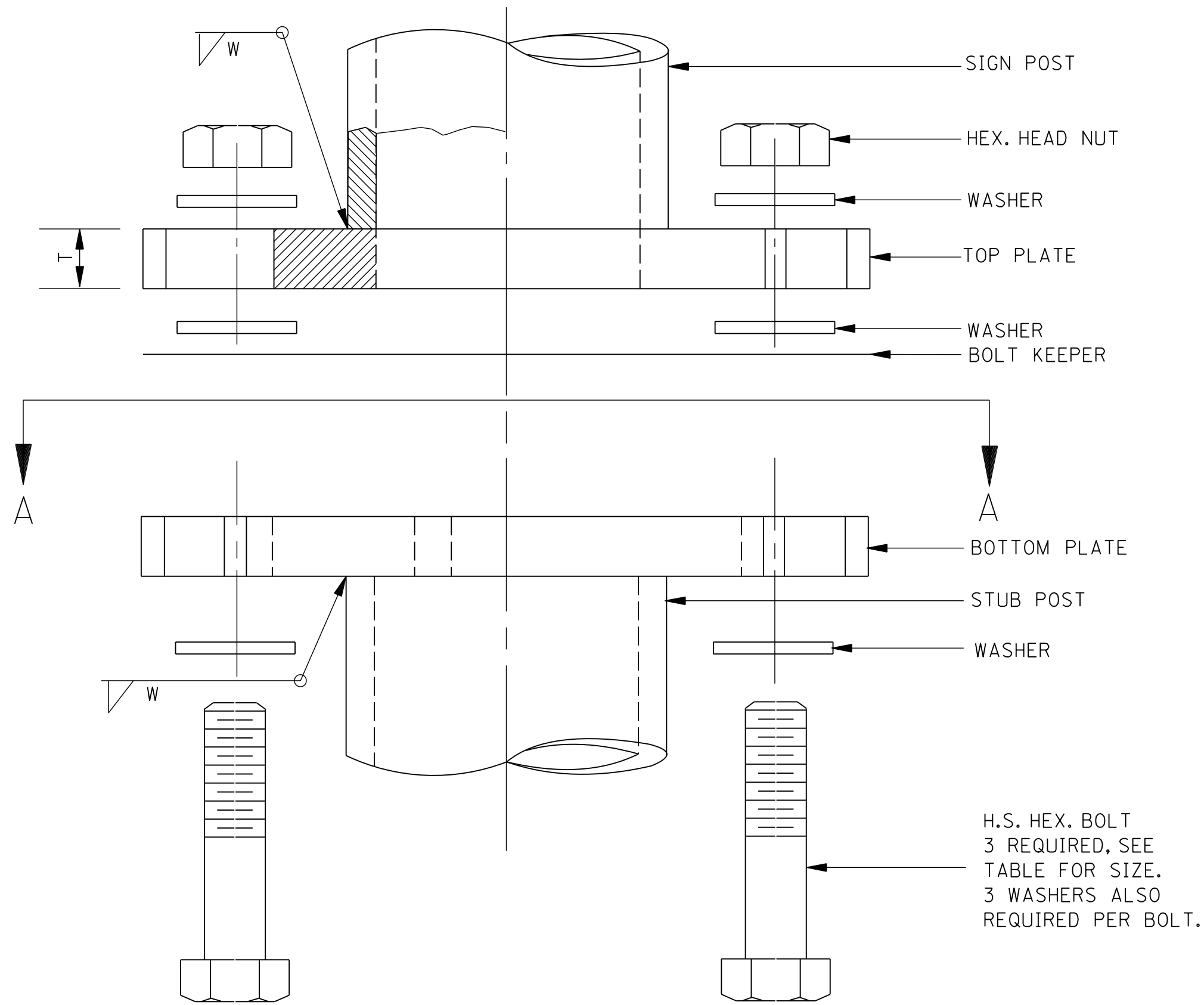
NOTE: Z = DISTANCE BETWEEN C'S OF EXTERIOR POSTS.

BASE CONNECTION DATA											FUSE PLATE DATA											FOOTING DATA					
DIMENSION	BOLT SIZE & TORQUE	A	B	C	D	E	T ₁	T ₂	W	R	F	G	H	J	K	L	N	D ₁	T ₃	BOLT SIZE (DIA. X LENGTH)	MIN. BOLT TENSION (lbs)	T ₄	STUB LENGTH	STUB ** PROJECTION	FOOTING DIAMETER	BARS V SIZE	FOOTING *** DEPTH
POST SIZE																											
W6 X 9	5/8" X 2 3/4" LONG TORQUE 300 in·lbs	5"	2"	1 1/4"	2 3/4"	1 1/8"	3/4"	1/2"	1 1/4"	1 1/32"	3 5/8"	2"	1 1/8"	4"	2 1/4"	7/8"	1/2"	9/16"	1/4"	1/2" X 1 1/2"	12,050	1/4"	2'-0"	3"	2'-0"	#4	SEE NOTE BELOW
W6 X 12											3 3/4"	2"	1 1/8"	4"	2 1/4"	7/8"	5/8"	11/16"	3/8"	5/8" X 2"	19,200	3/8"	2'-0"	3"	2'-0"	#5	SEE NOTE BELOW
W6 X 15											4 1/2"	2 1/2"	1 1/4"	6"	3 1/2"	1 1/4"	3/4"	1 1/2"	3/4" X 2 1/4"	28,400	3/8"	2'-6"	3"	2'-0"	#6	SEE NOTE BELOW	
W8 X 18											4 1/2"	2 1/2"	1 1/4"	5 1/4"	2 3/4"	1 1/4"	3/4"	1 1/2"	3/4" X 2 1/4"	28,400	3/8"	2'-6"	3"	2'-0"	#7	SEE NOTE BELOW	
W8 X 21	3/4" X 3 1/2" LONG TORQUE 500 in·lbs	6"	2 1/4"	1 3/8"	3 1/2"	1 1/4"	1"	3/4"	5/16"	1 1/32"	4 1/8"	2 1/2"	1 1/2"	5 1/4"	2 3/4"	1 1/4"	7/8"	1 1/2"	9/16"	7/8" X 2 1/2"	39,250	3/8"	3'-0"	2 1/2"	2'-0"	#8	SEE NOTE BELOW
W10 X 22											5 3/8"	3"	1 1/2"	5 3/4"	2 3/4"	1 1/2"	7/8"	1 1/2"	9/16"	7/8" X 2 1/2"	39,250	3/8"	3'-0"	2 1/2"	2'-0"	#9	SEE NOTE BELOW
W10 X 26											5 3/8"	3"	1 1/2"	5 3/4"	2 3/4"	1 1/2"	7/8"	1 1/2"	9/16"	7/8" X 2 1/2"	39,250	7/16"	3'-0"	2 1/2"	2'-0"	#10	SEE NOTE BELOW
W12 X 26											5 3/8"	3"	1 1/2"	6 1/2"	3 1/2"	1 1/2"	7/8"	1 1/2"	9/16"	7/8" X 2 1/2"	39,250	3/8"	3'-0"	2 1/2"	2'-0"	#11	SEE NOTE BELOW

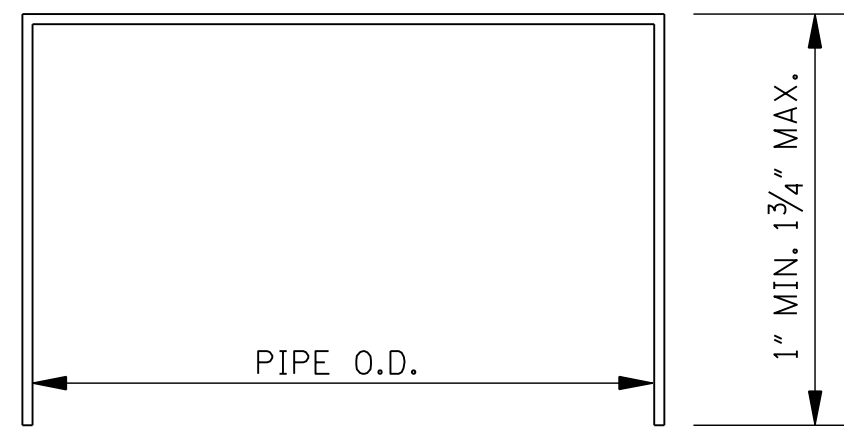
*** NOTE: STUB PROJECTION SHOULD BE MEASURED OVER A 5'-0" CHORD
AS PER AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR
HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, LATEST EDITION.

*** NOTE: FOOTING DEPTH TO BE SHOWN ELSEWHERE IN THE PLANS.

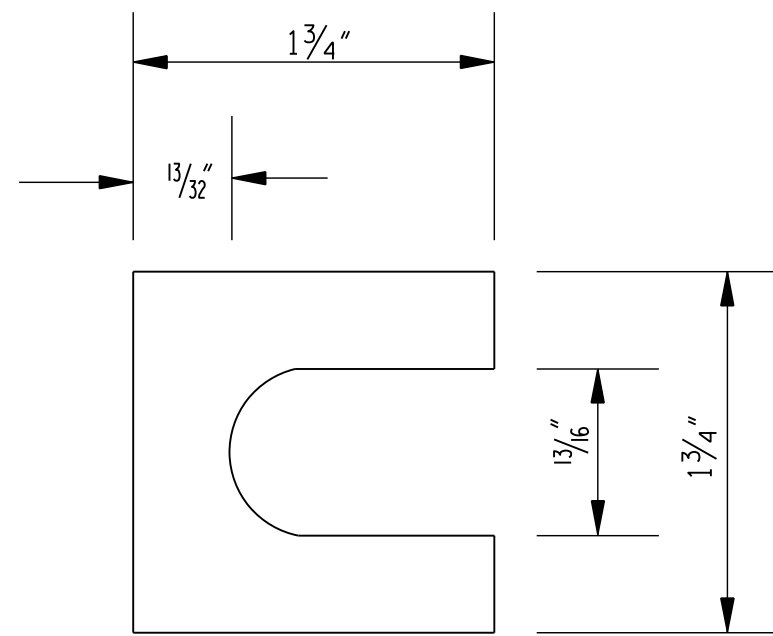
				BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN
				REVISION	<i>BREAKAWAY SIGN SUPPORTS</i>
				DATE	 MISSISSIPPI DEPARTMENT OF TRANSPORTATION WORKING NUMBER SN-6A ISSUE DATE: <u> AUGUST 01, 2017 </u> SHEET NUMBER 6311



MULTI-DIRECTIONAL SIGN POST & STUB POST

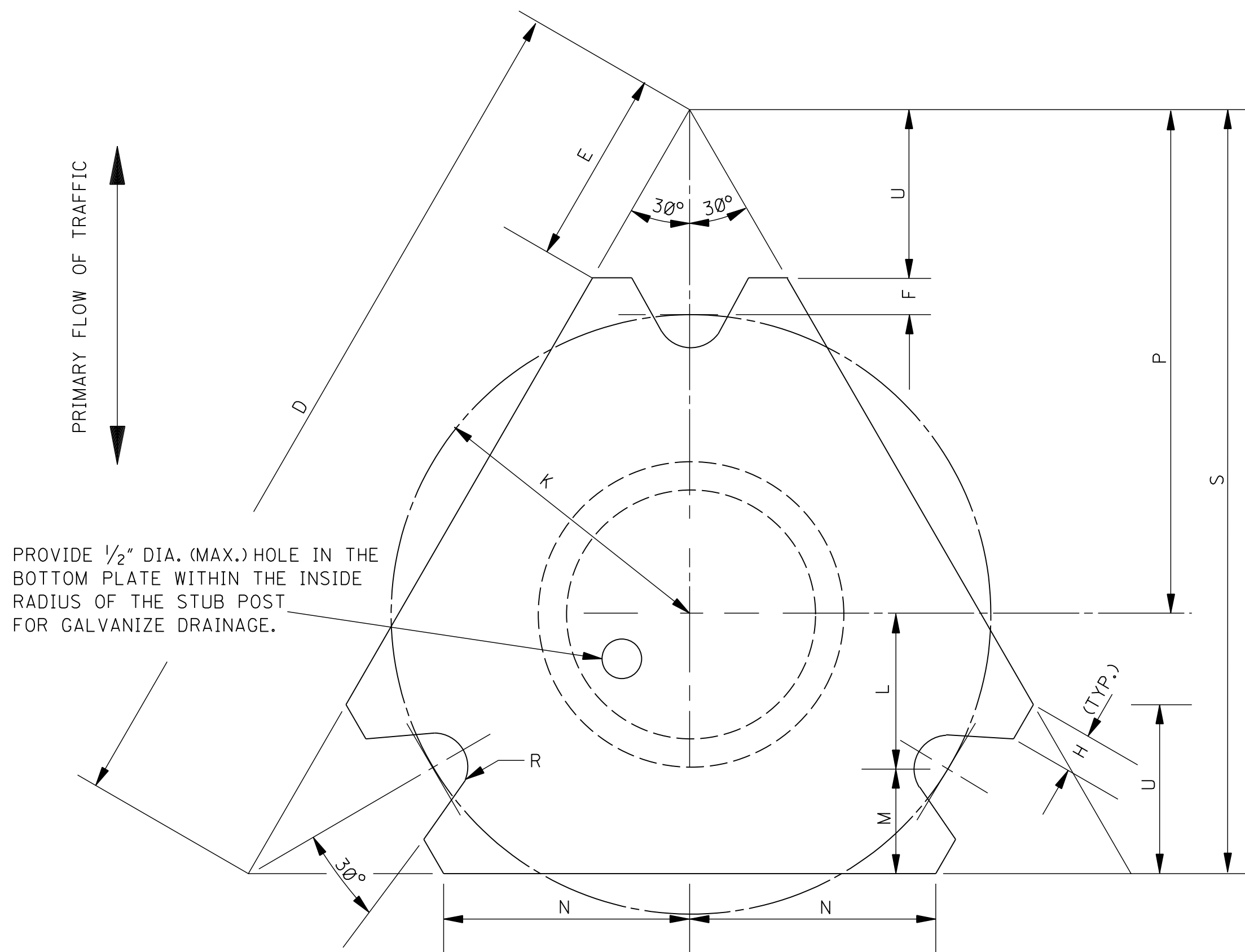


FRICTION CAP DETAIL
NOTE: SEE NOTE 3



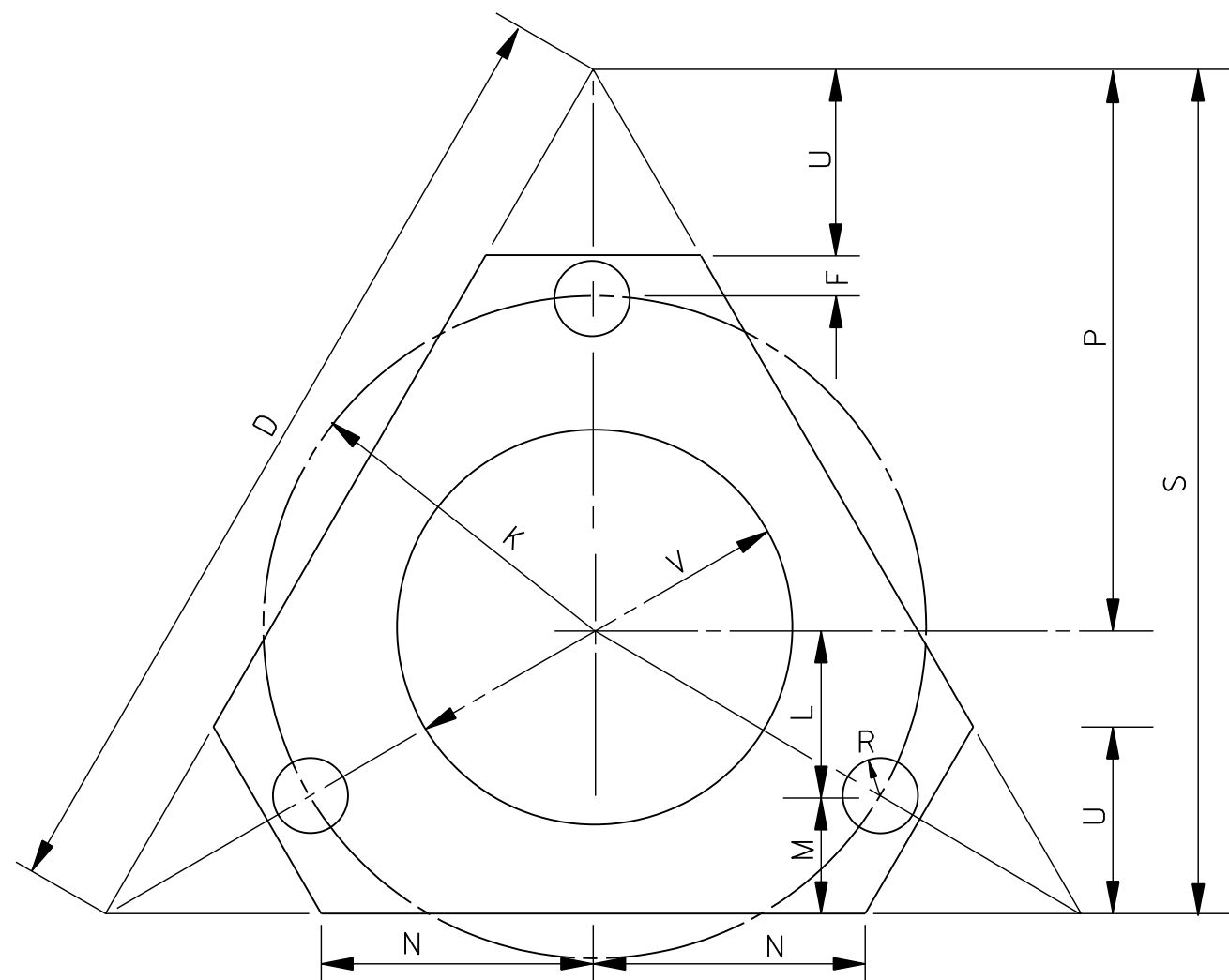
SHIM DETAIL

NOTE: FURNISH 2-0.012" ± THICK AND 2-0.032" ± THICK SHIMS PER POST. SHIMS SHALL BE FABRICATED FROM BRASS SHIM STOCK OR STRIP CONFORMING TO ASTM B 36.



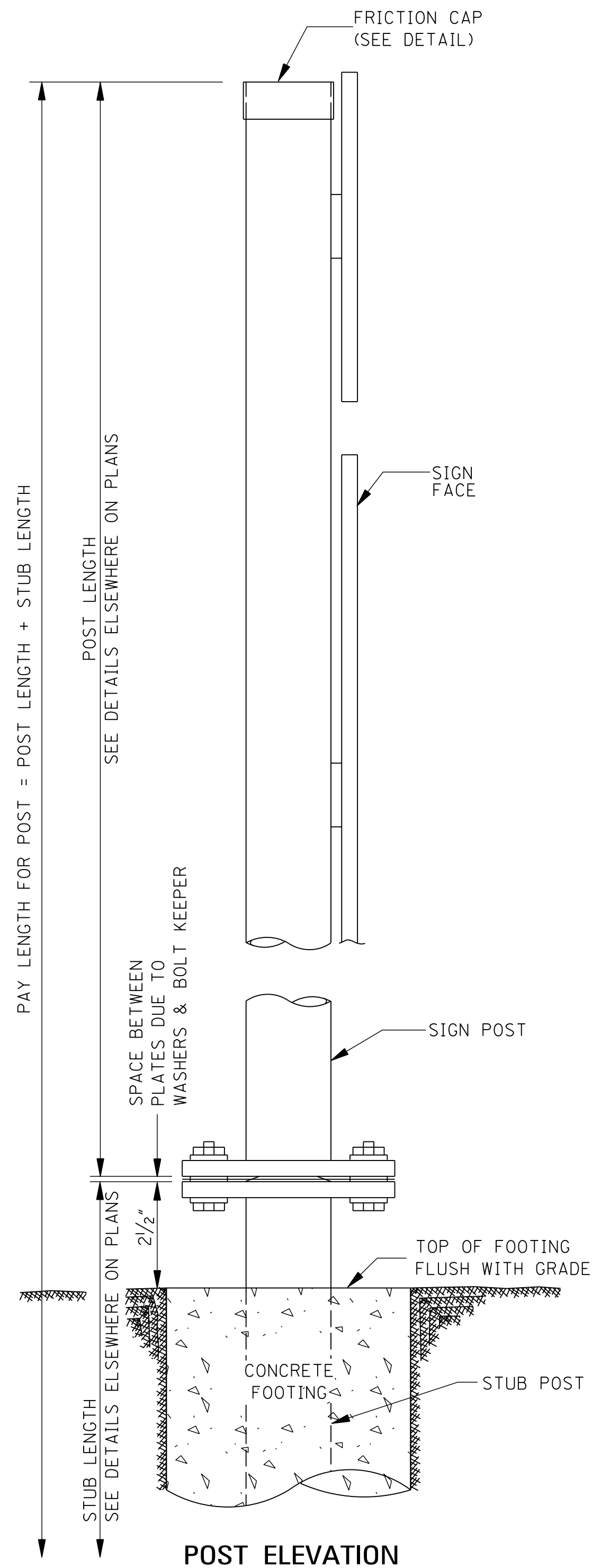
SECTION A-A

NOTE: SEE DATA TABLE FOR DIMENSIONS



BOLT KEEPER PLATE DETAIL

NOTE: TO BE FABRICATED FROM 28 GAGE THICK GALVANIZED STEEL. TO BE INSTALLED AS SHOWN IN DETAIL AT UPPER LEFT.



POST ELEVATION

GENERAL NOTES: (SEE WK. NO. SN-6 FOR ADDITIONAL GENERAL NOTES)

1. THE TOP PLATE OF THE TRIANGULAR SLIP BASE SHALL HAVE THE SAME EXTERIOR DIMENSIONS AS THE BOTTOM PLATE. THE LIFTING CONE SHALL BE WELDED TO THE BOTTOM PLATE ONLY. A HOLE EQUAL TO THE INSIDE DIAMETER OF THE SIGN POST SHALL BE CUT THROUGH THE CENTER OF THE TOP PLATE WITH THE HOLE EDGE BEVELED AS DETAILED. TOP & BOTTOM PLATES SHALL BE SYMMETRICAL FOR THE PURPOSE OF ASSEMBLY IN ANY POSITION.
2. BASE CONNECTION ASSEMBLY AS FOLLOWS:
 - A. ASSEMBLE POST TO STUB WITH 3 BOLTS AND WITH 3 FLAT WASHERS PER BOLT.
 - B. SHIM AS REQUIRED TO PLUMB POST.
 - C. TIGHTEN ALL BOLTS THE MAXIMUM POSSIBLE WITH A 12" TO 15" WRENCH TO BED WASHERS, KEEPER PLATE, SHIMS AND TO CLEAN THREADS.
 - D. LOOSEN EACH BOLT IN TURN & RETIGHTEN IN A SYSTEMATIC ORDER TO PRESCRIBED TORQUE. (SEE BASE CONNECTION DATA TABLE).
 - E. BURR THREADS AT JUNCTION WITH NUT WITH A CENTER PUNCH TO PREVENT NUT FROM LOOSENING.
3. FRICTION CAPS TO BE MANUFACTURED FROM HOT ROLLED OR COLD ROLLED STEEL SHEETS. FOR ALL PIPE SIZES, MINIMUM THICKNESS SHALL BE 20 GAGE SHEET METAL. RIM EDGES SHOULD BE REASONABLY STRAIGHT AND SMOOTH. CAPS SHALL BE SIZED AND FORMED IN SUCH A MANNER AS TO PROVIDE A DRIVE-ON FRICTION FIT AND HAVE NO TENDENCY TO ROCK WHEN SEATED ON PIPE. THE DEPTH SHALL BE SUFFICIENT TO GIVE POSITIVE PROTECTION AGAINST ENTRANCE OF RAINWATER. THEY SHALL BE FREE OF SHARP CREASES OR INDENTATIONS AND SHOW NO SIGNS OF METAL FRACTURE. ALL CAPS SHALL BE SAME IN SHAPE AND GENERAL APPEARANCE AS APPROVED BY THE ENGINEER.
4. STUB PROJECTION SHOULD BE MEASURED OVER A 5'-0" CHORD AS PER AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, LATEST EDITION. SEE WK. NO. SN-6A FOR DIAGRAM.
5. AS AN ALTERNATIVE THE POST LENGTH OF THE SIGN POST CAN BE MADE-UP USING A NOMINAL LENGTH OF GALVANIZED PIPE, A GALVANIZED SLIP BASE CASTING, GALVANIZED FLAT PLATES OR APPROVED EQUAL WITH ALL NECESSARY HARDWARE REQUIRED TO SECURE THEM TO THE SIGN POST, A GALVANIZED KEEPER PLATE AND A GALVANIZED FRICTION CAP. THE SLIP BASE CASTING SHALL HAVE 3-SCREWS TO SECURE THE POST TO THE CASTING AND ONE SET SCREW TO PREVENT ROTATION. THE MANUFACTURER SHALL PROVIDE SHOP DRAWINGS OF THE COMPLETE ASSEMBLY FOR MDOT APPROVAL.

BASE CONNECTION DATA TABLE																			
DIMENSIONS NOMINAL PIPE SIZES	BOLT SIZE & TORQUE	T	W	C	*D	*E	F	G	*H	J	K	L	M	*N	P	S	U	V	R
3" 3½"	5⁄8" X 2½" 300 in · lbs	5⁄8"	3⁄8"	1"	10 3⁄8"	2 5⁄16"	½"	3⁄8"	½"	1 3⁄4"	3 ½"	1 3⁄4"	1 ¼"	2 7⁄8"	6"	9"	2"	4 ¼"	11⁄32"
4" 5"	¾" X 3" 500 in · lbs	7⁄8"	7⁄16"	1 1⁄16"	13"	2 7⁄8"	½"	3⁄8"	5⁄8"	2 ½"	4 ½"	2 ¼"	1 ½"	3 5⁄8"	7 ½"	11 ¼"	2 ½"	5 ¾"	13⁄32"

*NOTE: APPROXIMATE DIMENSIONS

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

**BREAKAWAY
SIGN SUPPORTS**

ISSUE DATE: AUGUST 01, 2017



- GENERAL NOTES:

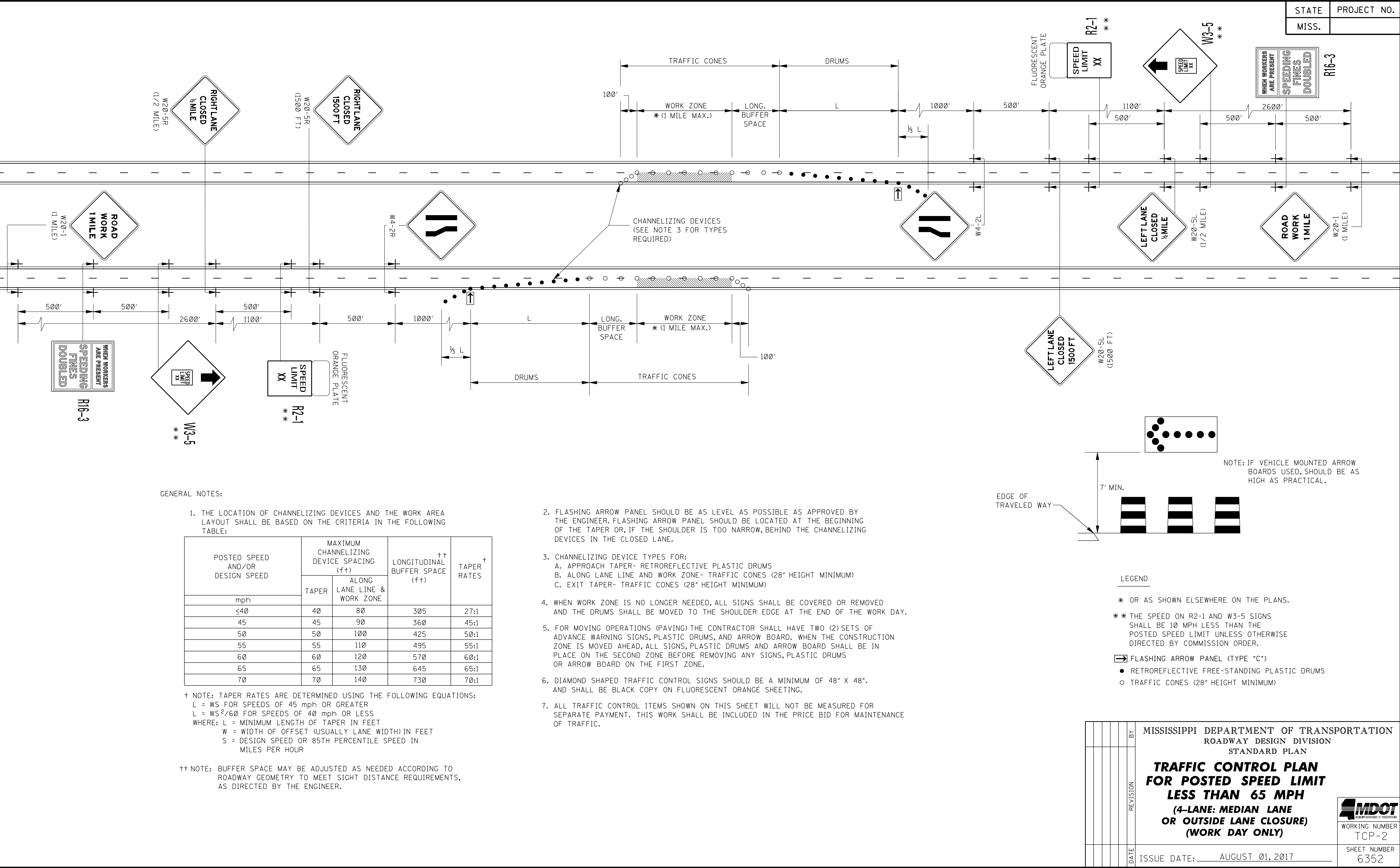
2. ALL CHANNELIZING DEVICES SHALL BE A MINIMUM OF 28" IN HEIGHT.
3. DIAMOND SHAPED TRAFFIC CONTROL SIGNS SHALL BE A MINIMUM OF 36" x 36" AND BLACK COPY ON FLUORESCENT ORANGE SHEETING.
4. WHEN WORK ZONE IS NO LONGER NEEDED, ALL SIGNS SHALL BE COVERED OR REMOVED AND ALL CHANNELIZING DEVICES SHALL BE MOVED TO THE SHOULDER EDGE.
5. ADDITIONAL FLAGGERS MAY BE NEEDED AS DIRECTED BY THE ENGINEER.
6. WHEN WORK IS REQUIRED AT NIGHT, FLAGGER STATIONS SHALL BE ILLUMINATED.
7. CHANNELIZING DEVICE TYPES FOR:
 - A. APPROACH AND EXIT TAPERS- RETROREFLECTIVE PLASTIC DRUMS
 - B. ALONG LANE LINE AND WORK ZONE- TRAFFIC CONES (28" HEIGHT)
8. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.

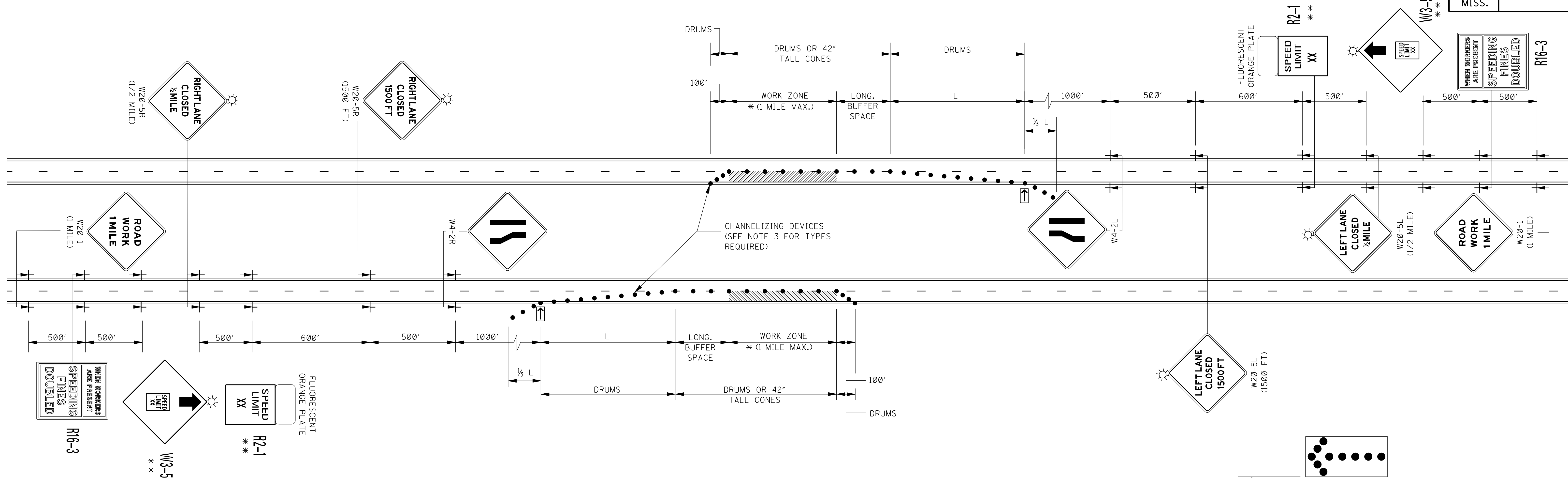
† NOTE: BUFFER SPACE MAY BE ADJUSTED AS NEEDED ACCORDING TO ROADWAY GEOMETRY TO MEET SIGHT DISTANCE REQUIREMENTS, AS DIRECTED BY THE ENGINEER.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN



SHEET NUMBER
6351





EDGE OF TRAVELED WAY

7' MIN.

NOTE: IF VEHICLE MOUNTED ARROW BOARDS USED, SHOULD BE AS HIGH AS PRACTICAL.

GENERAL NOTES:

1. THE LOCATION OF CHANNELIZING DEVICES AND THE WORK AREA LAYOUT SHALL BE BASED ON THE CRITERIA IN THE FOLLOWING TABLE:

POSTED SPEED AND/OR DESIGN SPEED	MAXIMUM CHANNELIZING DEVICE SPACING (ft)		LONGITUDINAL BUFFER SPACE (ft)	TAPER RATES [†]
	TAPER	ALONG BUFFER SPACE & WORK ZONE		
mph				
≤40	40	80	305	27:1
45	45	90	360	45:1
50	50	100	425	50:1
55	55	110	495	55:1
60	60	120	570	60:1
65	65	130	645	65:1
70	70	140	730	70:1

† NOTE: TAPER RATES ARE DETERMINED USING THE FOLLOWING EQUATIONS:
 $L = WS$ FOR SPEEDS OF 45 mph OR GREATER
 $L = WS^2/60$ FOR SPEEDS OF 40 mph OR LESS
 WHERE: L = MINIMUM LENGTH OF TAPER IN FEET
 W = WIDTH OF OFFSET (USUALLY LANE WIDTH) IN FEET
 S = DESIGN SPEED OR 85TH PERCENTILE SPEED IN MILES PER HOUR

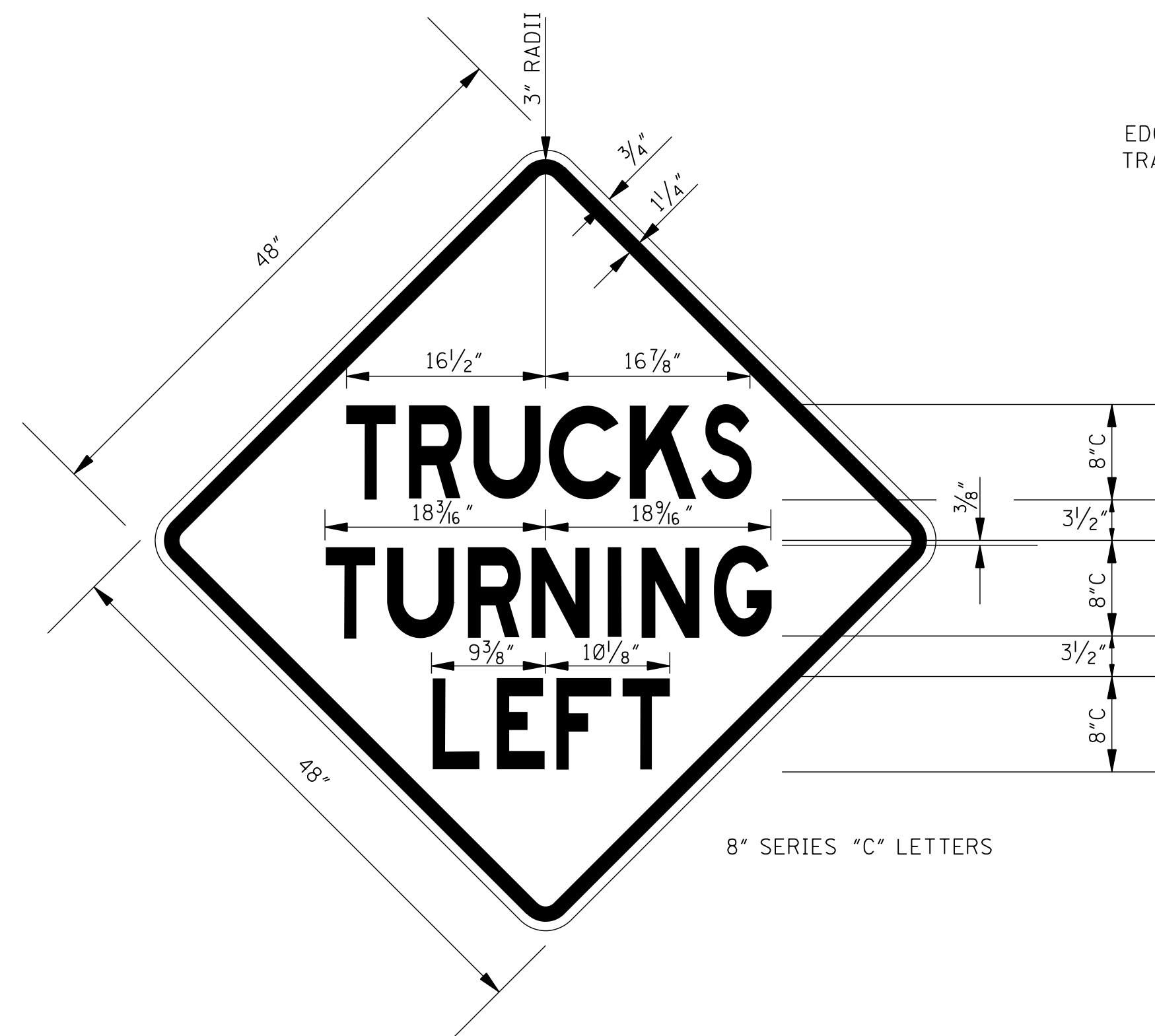
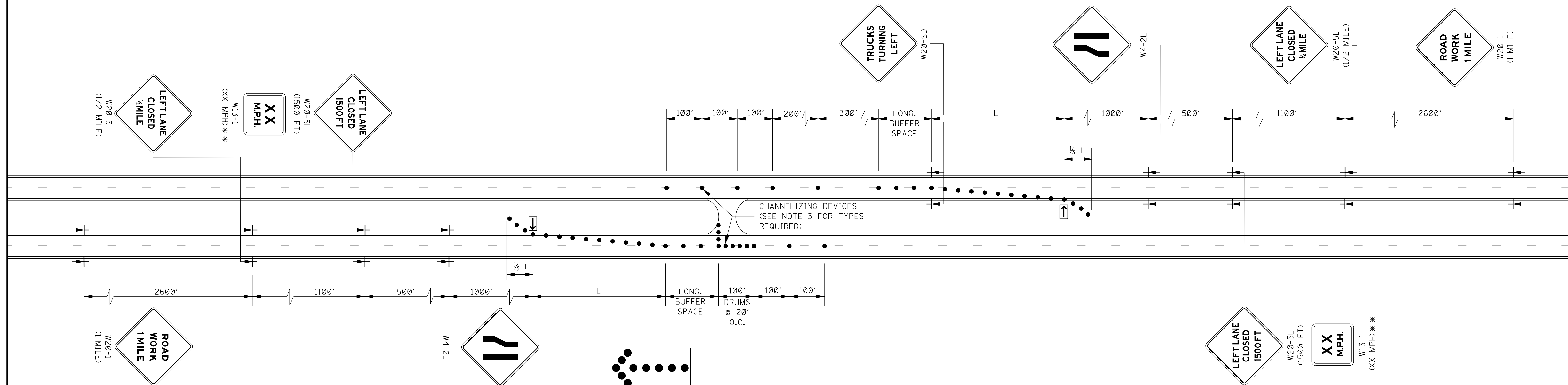
++ NOTE: BUFFER SPACE MAY BE ADJUSTED AS NEEDED ACCORDING TO ROADWAY GEOMETRY TO MEET SIGHT DISTANCE REQUIREMENTS, AS DIRECTED BY THE ENGINEER.

2. FLASHING ARROW PANEL SHOULD BE AS LEVEL AS POSSIBLE AS APPROVED BY THE ENGINEER. FLASHING ARROW PANEL SHOULD BE LOCATED AT THE BEGINNING OF THE TAPER OR, IF THE SHOULDER IS TOO NARROW, BEHIND THE CHANNELIZING DEVICES IN THE CLOSED LANE.
3. CHANNELIZING DEVICES:
 - A. ALL CHANNELIZING DEVICES IN TAPERS SHALL BE RETROREFLECTIVE FREE STANDING PLASTIC DRUMS.
 - B. CHANNELIZING DEVICES IN TANGENTS MAY BE EITHER RETROREFLECTIVE FREE STANDING PLASTIC DRUMS OR 42" TALL CONES.
 - C. ALL CHANNELIZING DEVICES SHALL BE RETROREFLECTIVE.
 - D. RETROREFLECTORIZATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE M.U.T.C.D.
4. FOR MOVING OPERATIONS (PAVING) THE CONTRACTOR SHALL HAVE TWO (2) SETS OF ADVANCE WARNING SIGNS, PLASTIC DRUMS, AND ARROW BOARD. WHEN THE CONSTRUCTION ZONE IS MOVED AHEAD, ALL SIGNS, PLASTIC DRUMS AND ARROW BOARD SHALL BE IN PLACE ON THE SECOND ZONE BEFORE REMOVING ANY SIGNS, PLASTIC DRUMS OR ARROW BOARD ON THE FIRST ZONE.
5. DIAMOND SHAPED TRAFFIC CONTROL SIGNS SHOULD BE A MINIMUM OF 48" X 48". AND SHALL BE BLACK COPY ON FLUORESCENT ORANGE SHEETING.
6. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.

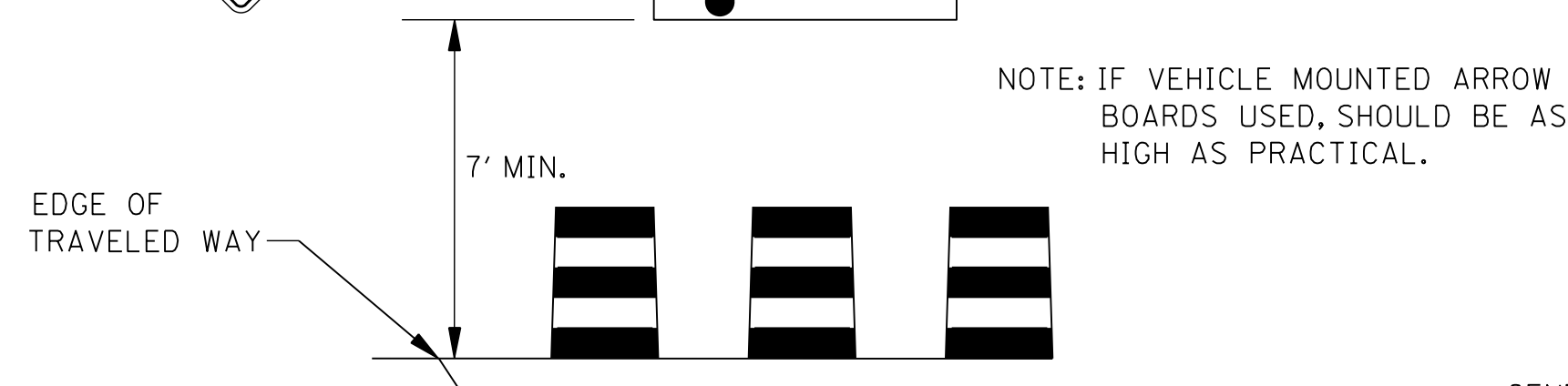
LEGEND

- * OR AS SHOWN ELSEWHERE ON THE PLANS.
- ** THE SPEED ON R2-1 AND W3-5 SIGNS SHALL BE 10 MPH LESS THAN THE POSTED SPEED LIMIT UNLESS OTHERWISE DIRECTED BY COMMISSION ORDER.
- ➡ FLASHING ARROW PANEL (TYPE "C")
- RETROREFLECTIVE FREE-STANDING PLASTIC DRUMS
- ☀ TYPE "B" WARNING LIGHTS

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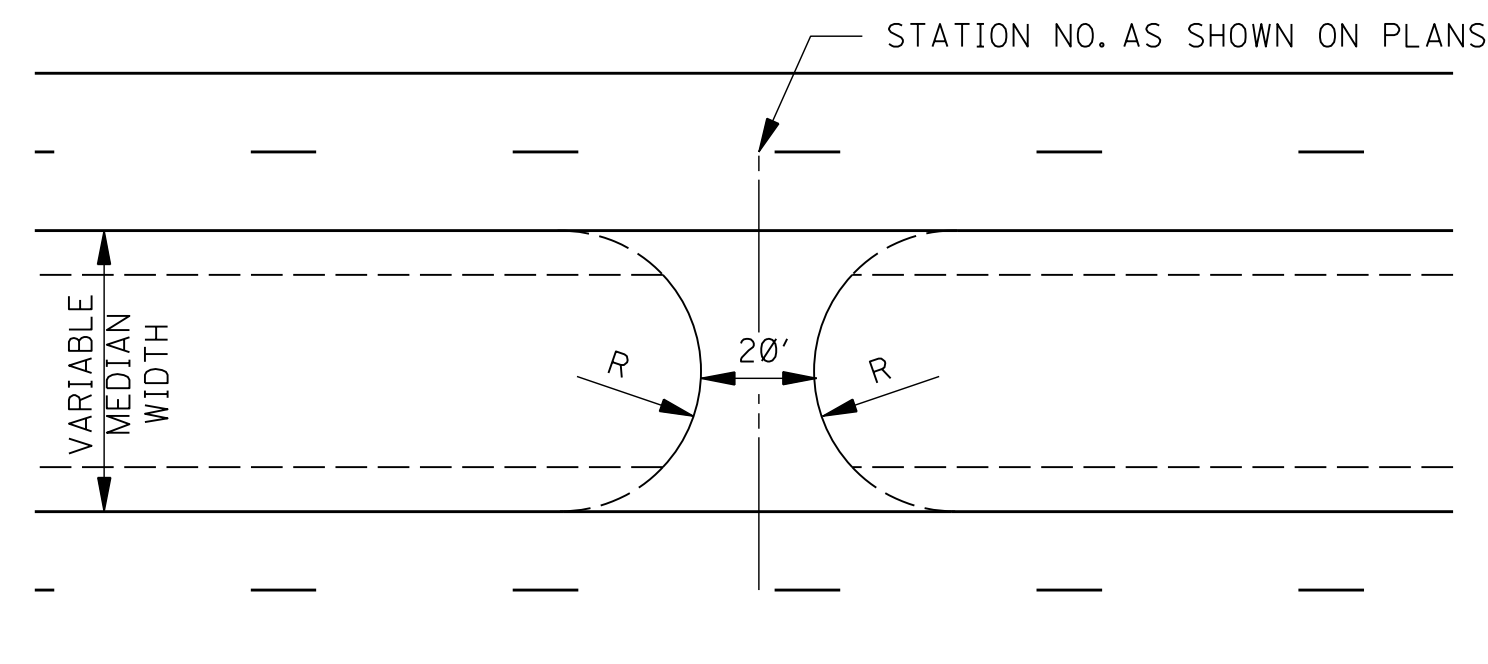


DETAIL OF W20-SD



LEGEND

- * * THE SPEED ON W13-1 SIGN SHALL BE 10 MPH LESS THAN THE POSTED SPEED LIMIT UNLESS OTHERWISE DIRECTED BY COMMISSION ORDER.
-  FLASHING ARROW PANEL (TYPE "C")
 - RETROREFLECTIVE FREE-STANDING PLASTIC DRUMS
-  TYPE "B" WARNING LIGHTS



DETAIL OF TEMPORARY CROSSOVER
NOTE: R = 0.5 (MEDIAN WIDTH)

GENERAL NOTES:

1. THE LOCATION OF CHANNELIZING DEVICES AND THE WORK AREA LAYOUT SHALL BE BASED ON THE CRITERIA IN THE FOLLOWING TABLE:

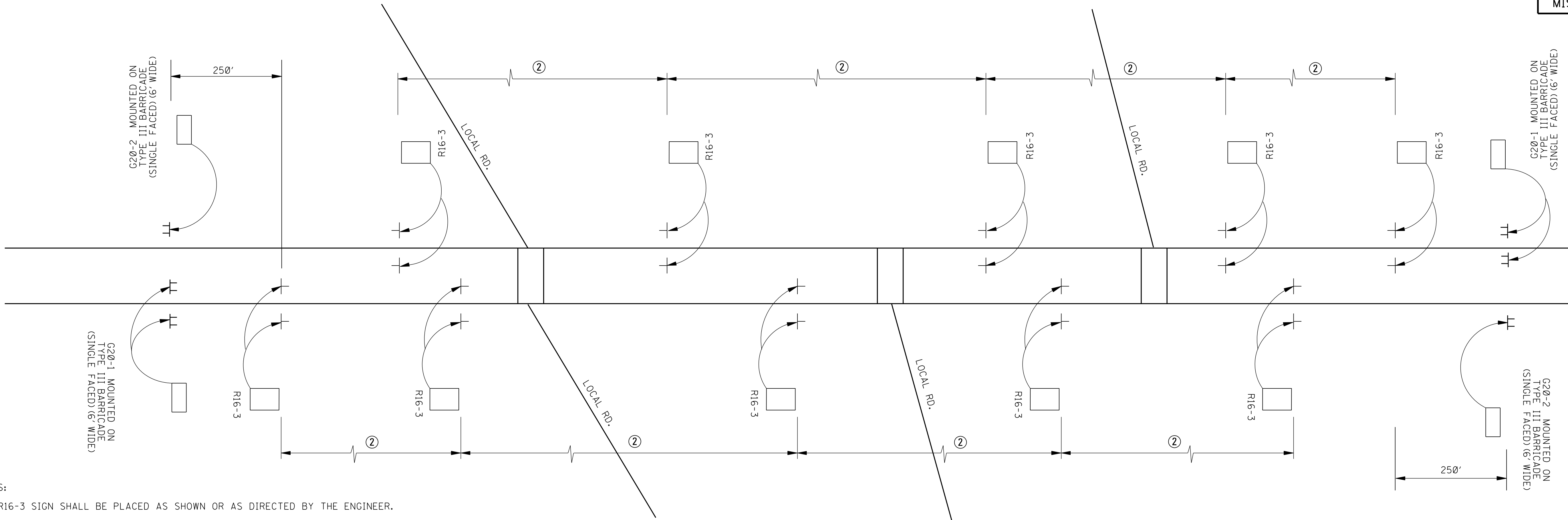
POSTED SPEED AND/OR DESIGN SPEED	MAXIMUM CHANNELIZING DEVICE SPACING (ft)		LONGITUDINAL BUFFER SPACE (ft) ⁺⁺	TAPER ⁺ RATES
	TAPER	ALONG LANE LINE & WORK ZONE		
mph				
≤40	40	80	305	27:1
45	45	90	360	45:1
50	50	100	425	50:1
55	55	110	495	55:1
60	60	120	570	60:1
65	65	130	645	65:1
70	70	140	730	70:1

+ NOTE: TAPER RATES ARE DETERMINED USING THE FOLLOWING EQUATIONS:
 $L = WS$ FOR SPEEDS OF 45 mph OR GREATER
 $L = WS^2/60$ FOR SPEEDS OF 40 mph OR LESS
 WHERE: L = MINIMUM LENGTH OF TAPER IN FEET
 W = WIDTH OF OFFSET (USUALLY LANE WIDTH) IN FEET
 S = DESIGN SPEED OR 85TH PERCENTILE SPEED IN MILES PER HOUR

†† NOTE: BUFFER SPACE MAY BE ADJUSTED AS NEEDED ACCORDING TO ROADWAY GEOMETRY TO MEET SIGHT DISTANCE REQUIREMENTS, AS DIRECTED BY THE ENGINEER.

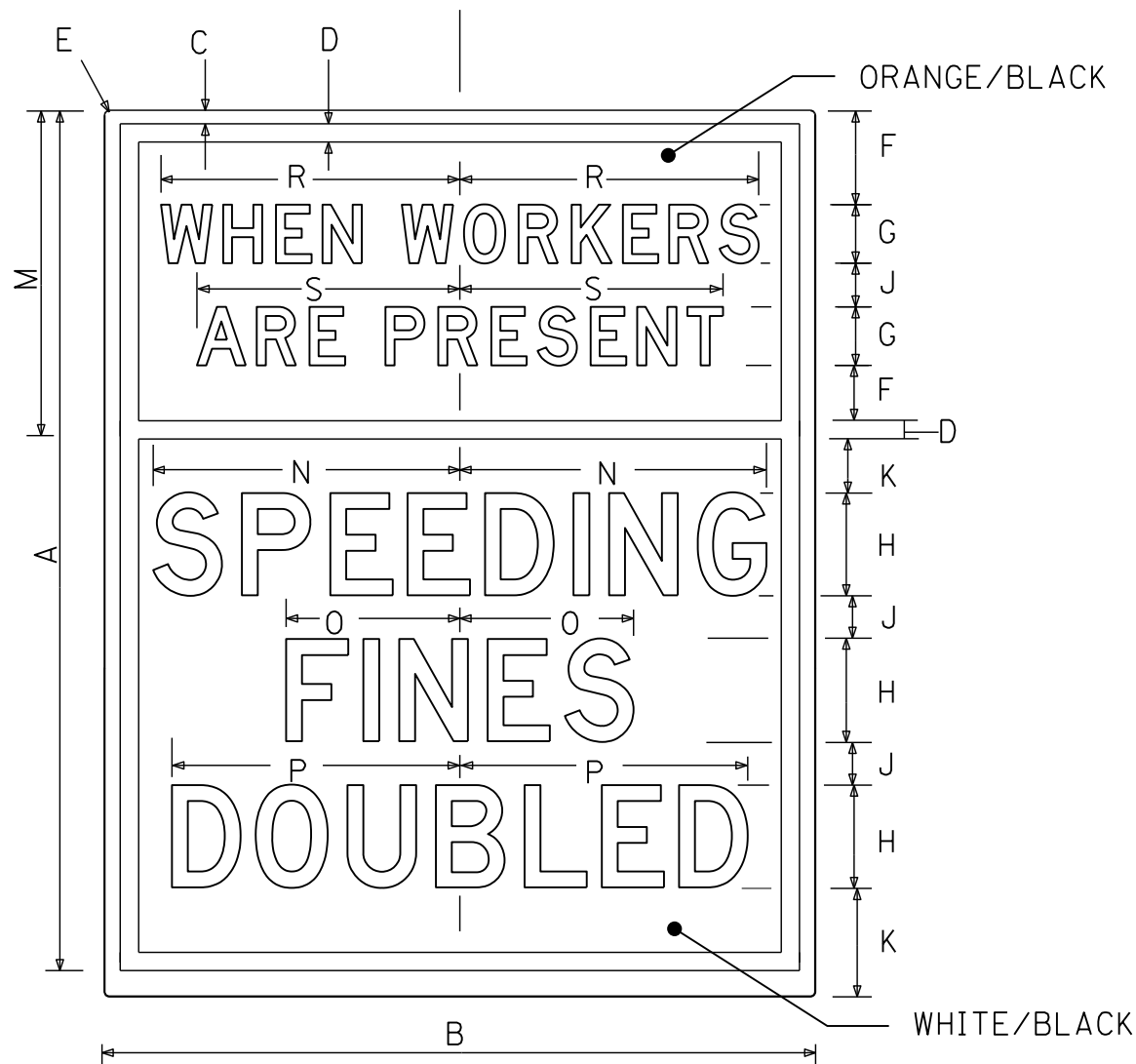
2. FLASHING ARROW PANEL SHOULD BE AS LEVEL AS POSSIBLE AS APPROVED BY THE ENGINEER. FLASHING ARROW PANEL SHOULD BE LOCATED AT THE BEGINNING OF THE TAPER OR, IF THE SHOULDER IS TOO NARROW, BEHIND THE CHANNELIZING DEVICES IN THE CLOSED LANE.
3. ALL CHANNELIZING DEVICES SHALL BE RETROREFLECTIVE FREE STANDING PLASTIC DRUMS.
4. DIAMOND SHAPED TRAFFIC CONTROL SIGNS SHOULD BE A MINIMUM OF 48" X 48" AND SHALL BE BLACK COPY ON FLUORESCENT ORANGE SHEETING.
5. LOCATION OF CROSSEOVERS WILL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
6. USE OF CROSSEOVER SHALL BE LIMITED TO TRUCKS APPROACHING FROM ONE DIRECTION ONLY.
7. REVERSE LAYOUT OF TAPERS, DRUMS AND SIGNS TO ACCOMMODATE TRUCKS APPROACHING FROM OPPOSITE DIRECTION.
8. EACH CONSTRUCTION CROSSEOVER SHOULD BE CLOSED AS DIRECTED BY THE ENGINEER OR WHEN THE CONSTRUCTION OPERATION, ZONE OR SIGNS ENCROACH ON OR INTERFERES WITH THE OPERATION OF THE CONSTRUCTION CROSSEOVER. THE CROSSEOVER SHOULD BE CLOSED USING 24' OF TYPE III BARRICADE (DOUBLE FACED).
9. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.

				BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN
				REVISION	TRAFFIC CONTROL PLAN FOR TEMPORARY CONSTRUCTION CROSSOVER (WORK DAY ONLY)
				DATE	 WORKING NUMBER TCP-11 SHEET NUMBER 6361 ISSUE DATE: <u>AUGUST 01, 2017</u>



- NOTES:
1. R16-3 SIGN SHALL BE PLACED AS SHOWN OR AS DIRECTED BY THE ENGINEER.
 2. R16-3 SIGN SHOULD BE SPACED AT A MAXIMUM OF 2 MILES THROUGHOUT LENGTH OF PROJECT.
 3. THIS SHEET WILL ONLY APPLY TO SPEED REDUCTION SECTIONS.

DIVIDED HIGHWAY SHOWN
(2 LANE – 2 WAY ROADWAY SIMILAR)
(PROJECT MORE THAN 1 MILE LENGTH)



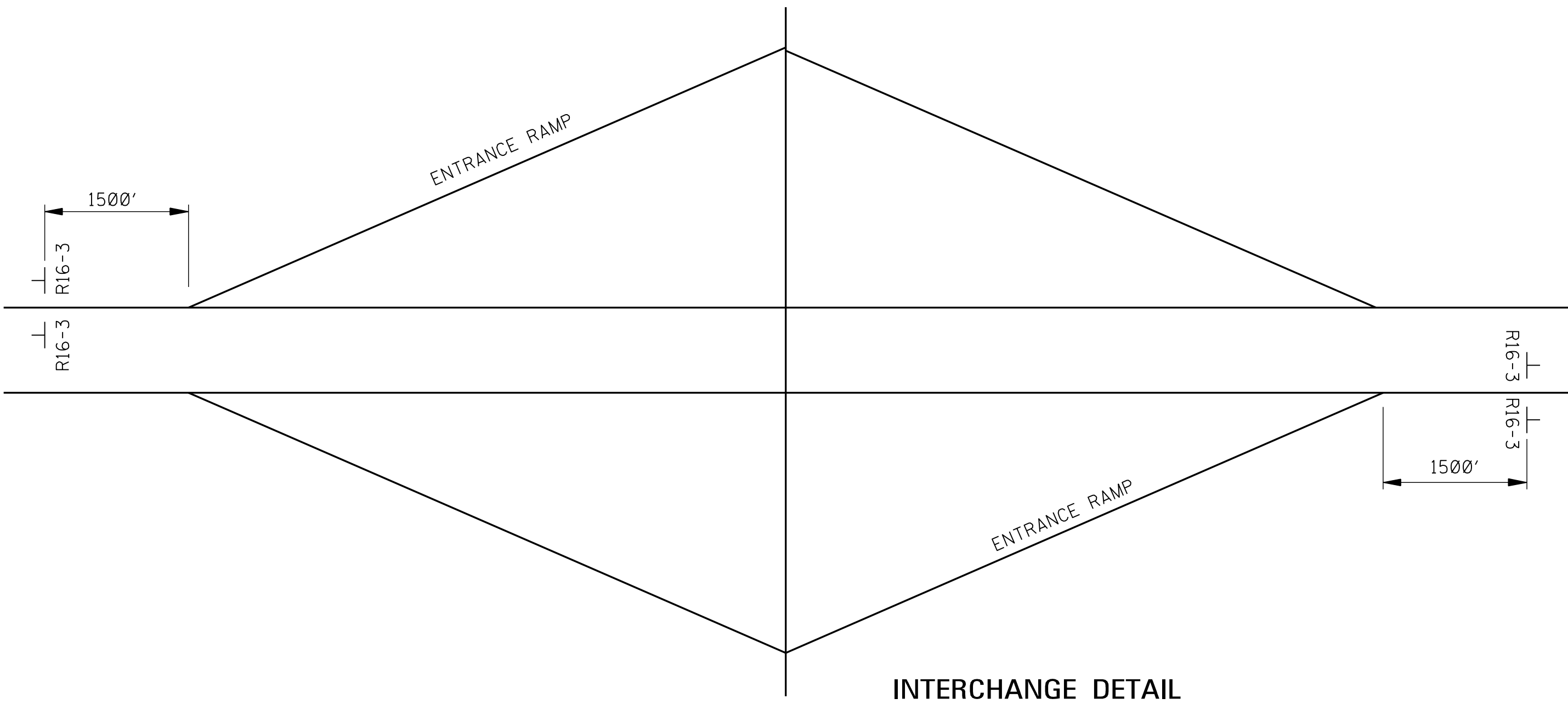
SIGN	DIMENSIONS (INCHES)							
	A	B	C	D	E	F	G	H
STD.	60	48	3/4	1 1/4	3	3 3/4	4 Dm	7 D
	J	K	M	N	O	P	R	S
STD.	3	6 5/8	22 1/8	21	11 7/8	19 2 1/2	20 5/32	18

48" x 60"
(INTERSTATE USE)

SIGN	DIMENSIONS (INCHES)							
	A	B	C	D	E	F	G	H
STD.	48	36	3/4	1 1/4	3	2 3/4	3 Dm	6 D
	J	K	M	N	O	P	R	S
STD.	3	4 1/8	14 3/4	14	7 1/8	13 1/8	13 5/8	12

36" x 48"
(ALL OTHER HIGHWAYS)

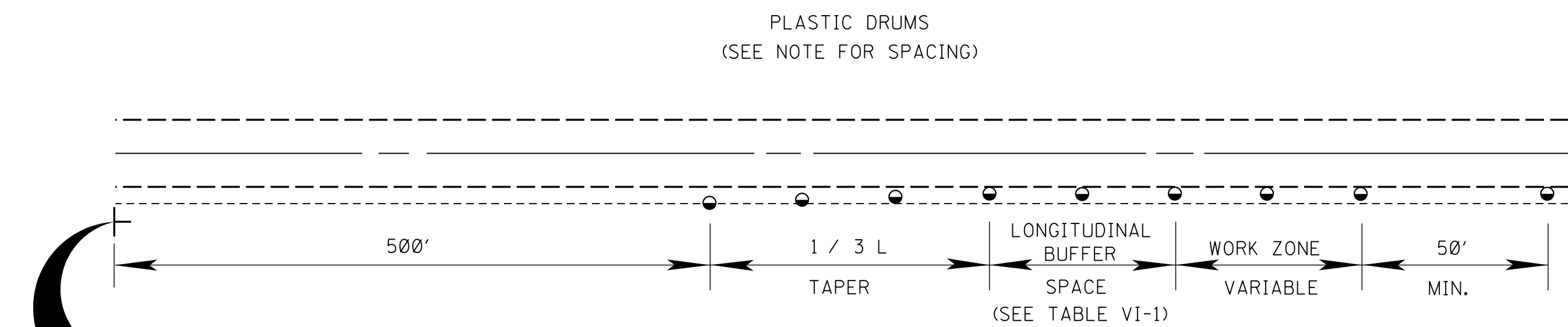
R16-3



INTERCHANGE DETAIL

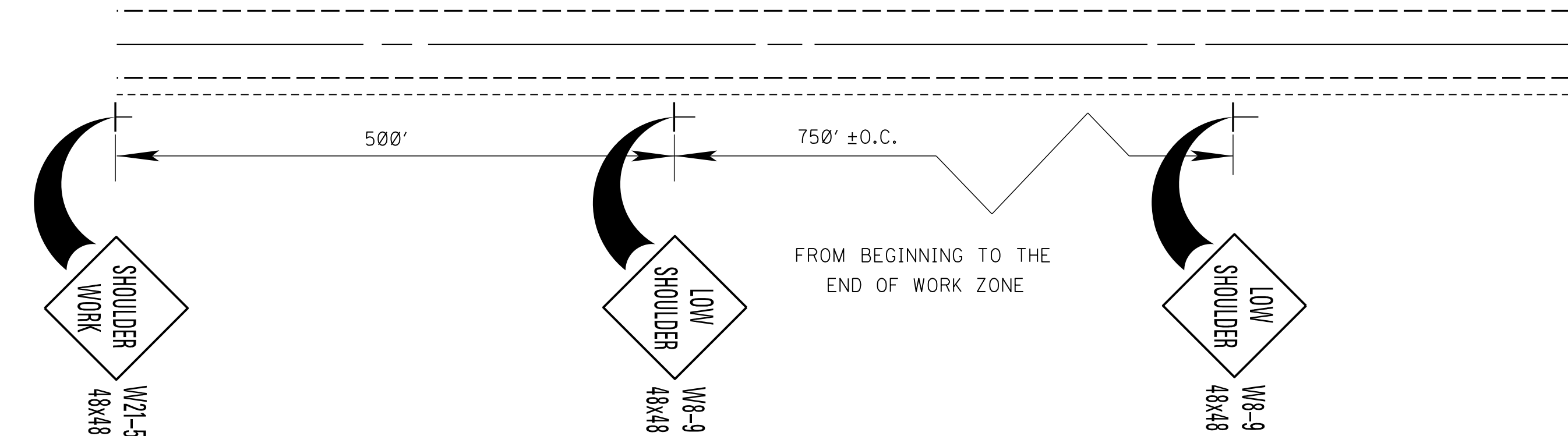
				BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN
				REVISION	LOCATION OF R16-3 SIGNS (SPEEDING FINES DOUBLED)
				DATE	ISSUE DATE: AUGUST 01, 2017

WORKING NUMBER
TCP-15
SHEET NUMBER
6365

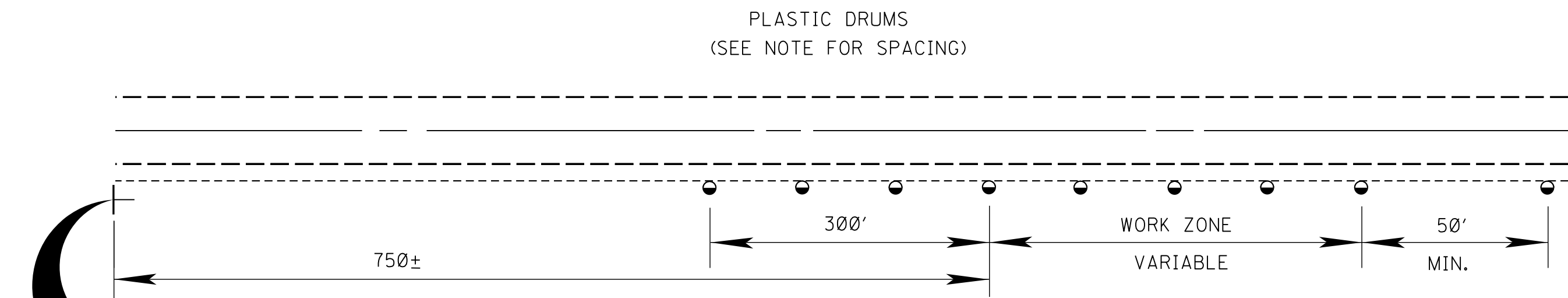


TYPICAL SHOULDER CLOSURE

- (1) TO BE USED WITH EIGHT (8) FOOT OR GREATER WIDTH IMPROVED SHOULDER.
(2) TO BE USED WHEN CONSTRUCTION VEHICLES (EQUIPMENT) ENCROACHES ON OR WITHIN TWO (2) FEET OF THE SHOULDER BREAK.

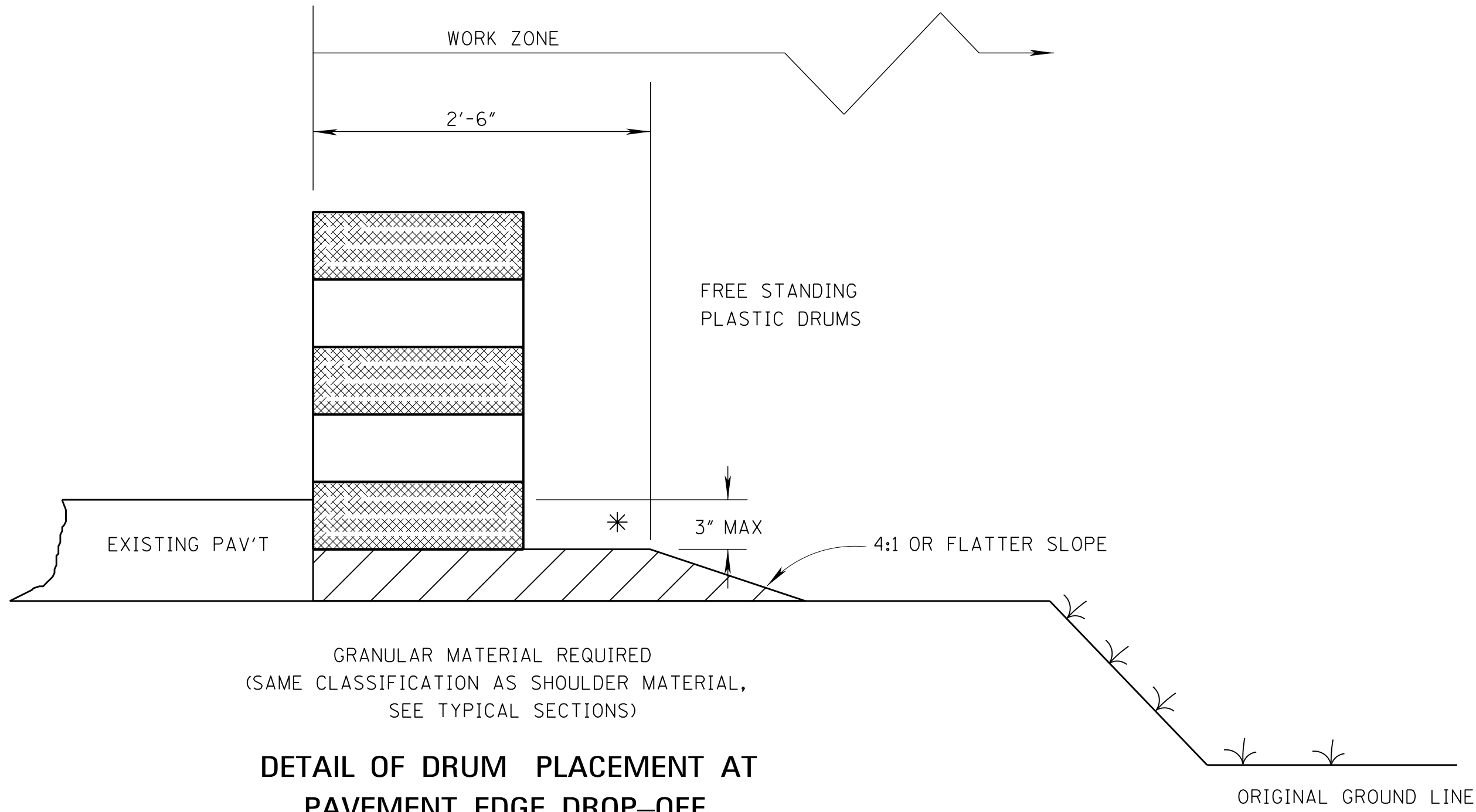
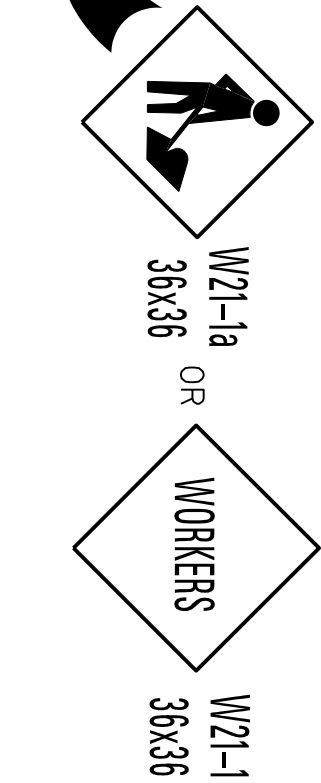


**TYPICAL SHOULDER WORK #1
(SEE NOTE A-1 THIS SHEET)**



TYPICAL SHOULDER WORK #2

NOTE:
WORK OUTSIDE TWO (2) FOOT AND WITHIN TEN (10) FEET OF THE SHOULDER BREAK MAY BE PROTECTED BY PLACING DRUMS ALONG THE SHOULDER EDGE, 300 FEET PRIOR TO AND 50 FEET BEYOND THE WORK AREA, OR SEE NOTE A-3 THIS SHEET.



**DETAIL OF DRUM PLACEMENT AT
PAVEMENT EDGE DROP-OFF**

NOTES:

- * A. PAVEMENT EDGE DROP-OFF
- IF LESS THAN TWO AND ONE QUARTER (2.25) INCHES-NO PROTECTION REQUIRED. PLACE A SHOULDER WORK SIGN (W21-5) 500 FEET IN ADVANCE OF WORK ZONE SHOULDER AND A LOW SHOULDER SIGN (W8-9) AT THE BEGINNING AND THROUGHOUT THE WORK ZONE @ (750'±0.C.).
 - TWO AND ONE QUARTER TO THREE INCHES-PLACE DRUMS, VERTICAL PANELS OR BARRICADES EVERY 100 FEET ON TANGENT SECTIONS FOR SPEEDS OF 50 MILES PER HOUR OR GREATER. CONES MAY BE USED IN PLACE OF DRUMS, PANELS, AND BARRICADES DURING DAYLIGHT HOURS. FOR TANGENT SECTIONS WITH SPEEDS LESS THAN 50 MILES PER HOUR AND FOR CURVES, DEVICES SHOULD BE PLACED EVERY 50 FEET. SPACING FOR TAPERS SHOULD BE IN ACCORDANCE WITH THE M.U.T.C.D. (1 / 3 L, WHERE L IS THE TAPER LENGTH IN FEET.)
 - GREATER THAN THREE (3) INCHES-POSITIVE SEPARATION OR WEDGE WITH 4:1 OR FLATTER SLOPE NEEDED. IF THERE IS EIGHT (8) FEET OR MORE DISTANCE BETWEEN THE EDGE OF TRAVEL LANE AND DROP-OFF, THEN DRUMS, PANELS OR BARRICADES MAY BE USED.
 - FOR TEMPORARY CONDITIONS, DROP-OFFS GREATER THAN THREE (3) INCHES MAY BE PROTECTED WITH DRUMS, VERTICAL PANELS OR BARRICADES FOR SHORT DISTANCES DURING DAYLIGHT HOURS WHILE WORK IS BEING DONE IN THE DROP-OFF AREA.
 - LESSER TREATMENTS THAN THOSE DESCRIBED ABOVE MAY BE CONSIDERED FOR LOW-VOLUME LOCAL STREETS.

B. DRUM SPACING

- TANGENTS = 2 X S
- TAPERS = L / 3
WHERE L = S X W
L = TAPER LENGTH IN FEET
S = SPEED IN MPH (POSTED OR 85 PERCENTILE)
W = WIDTH OF OFFSET IN FEET

C. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET SHALL BE PAID FOR UNDER MAINTENANCE OF TRAFFIC.

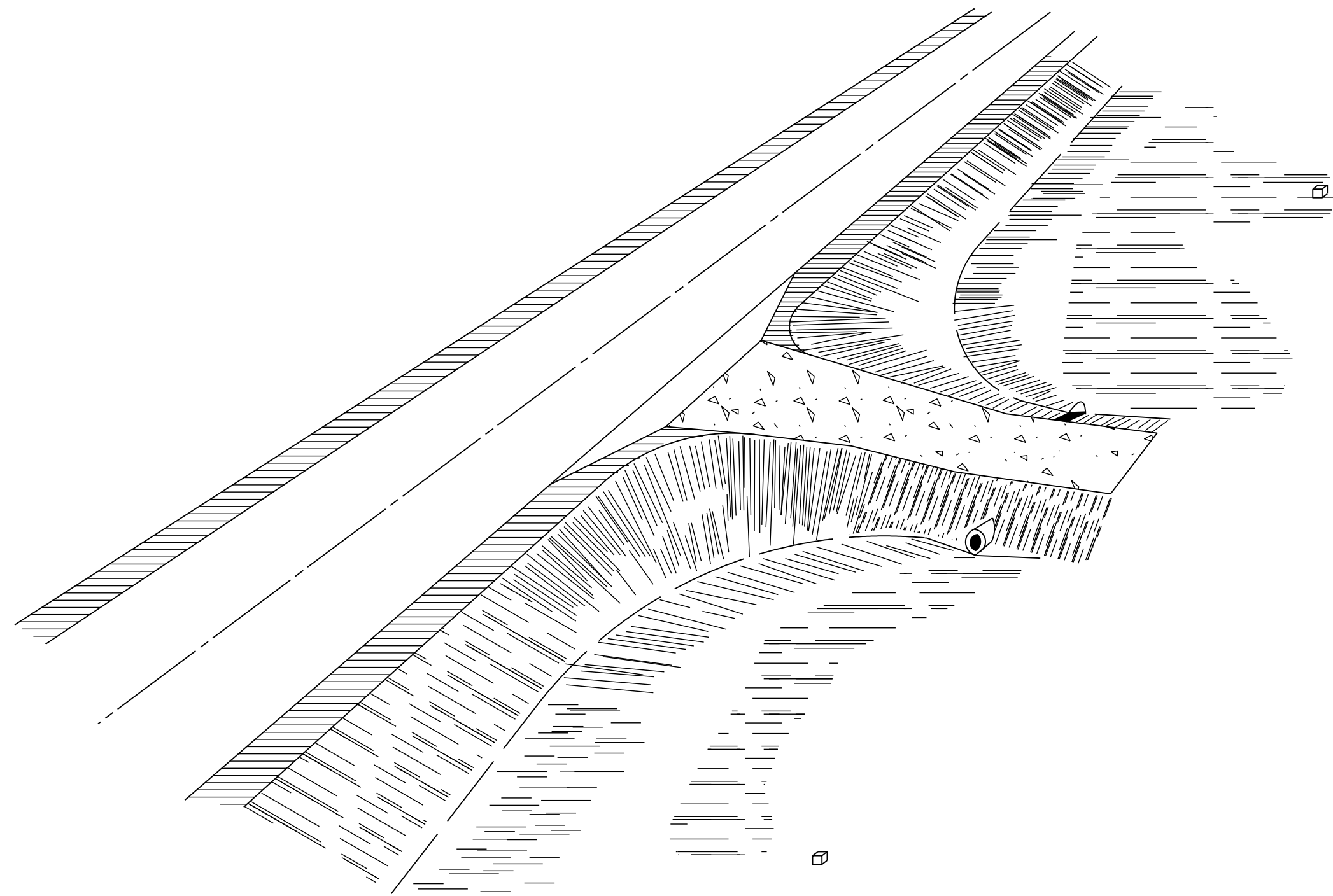
TABLE VI-1. GUIDELINES FOR LENGTH OF LONGITUDINAL BUFFER SPACE

* * SPEED (MPH)	LENGTH (FEET)
20	35
25	55
30	85
35	120
40	170
45	220
50	280
55	335
60	415
65	485

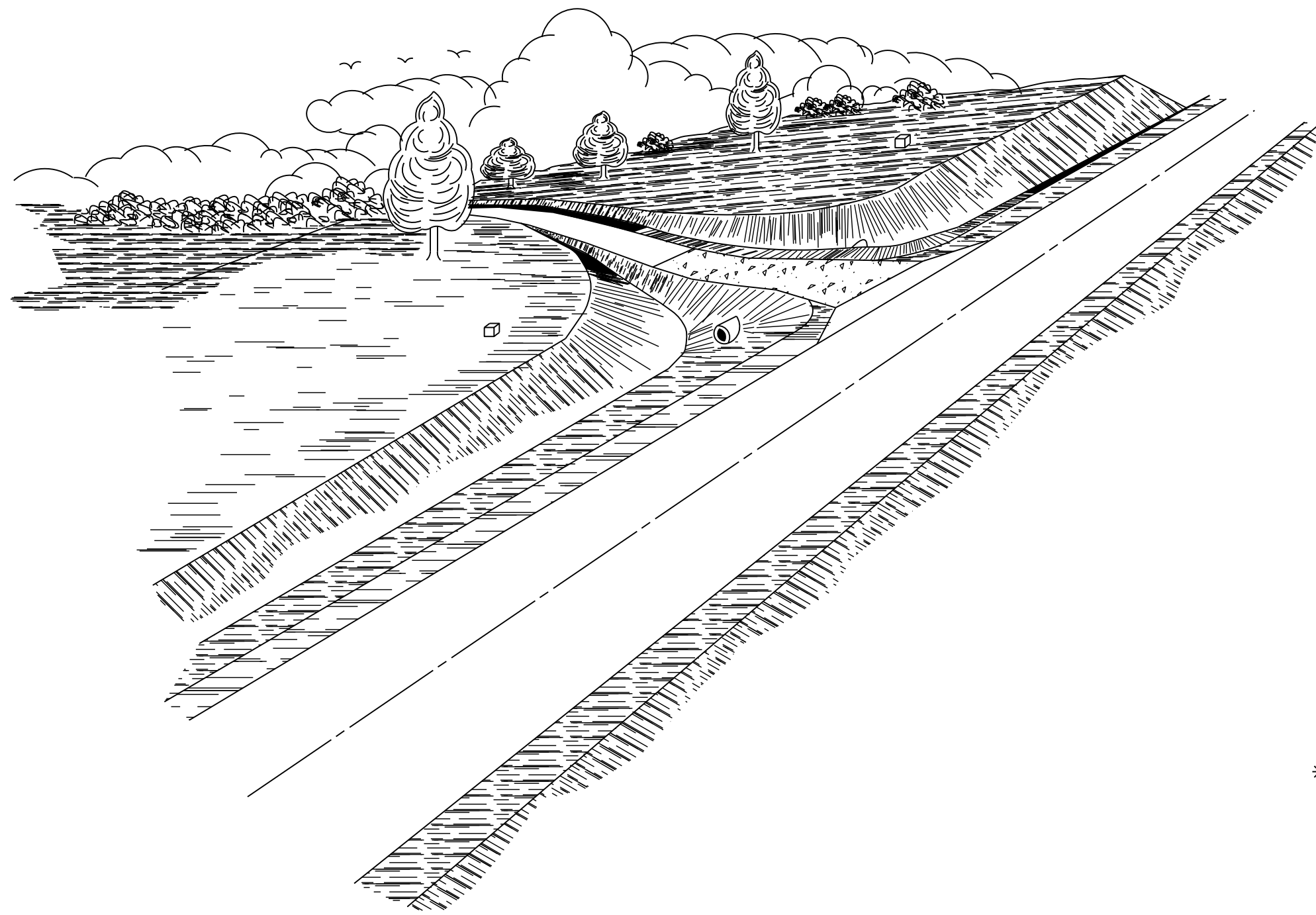
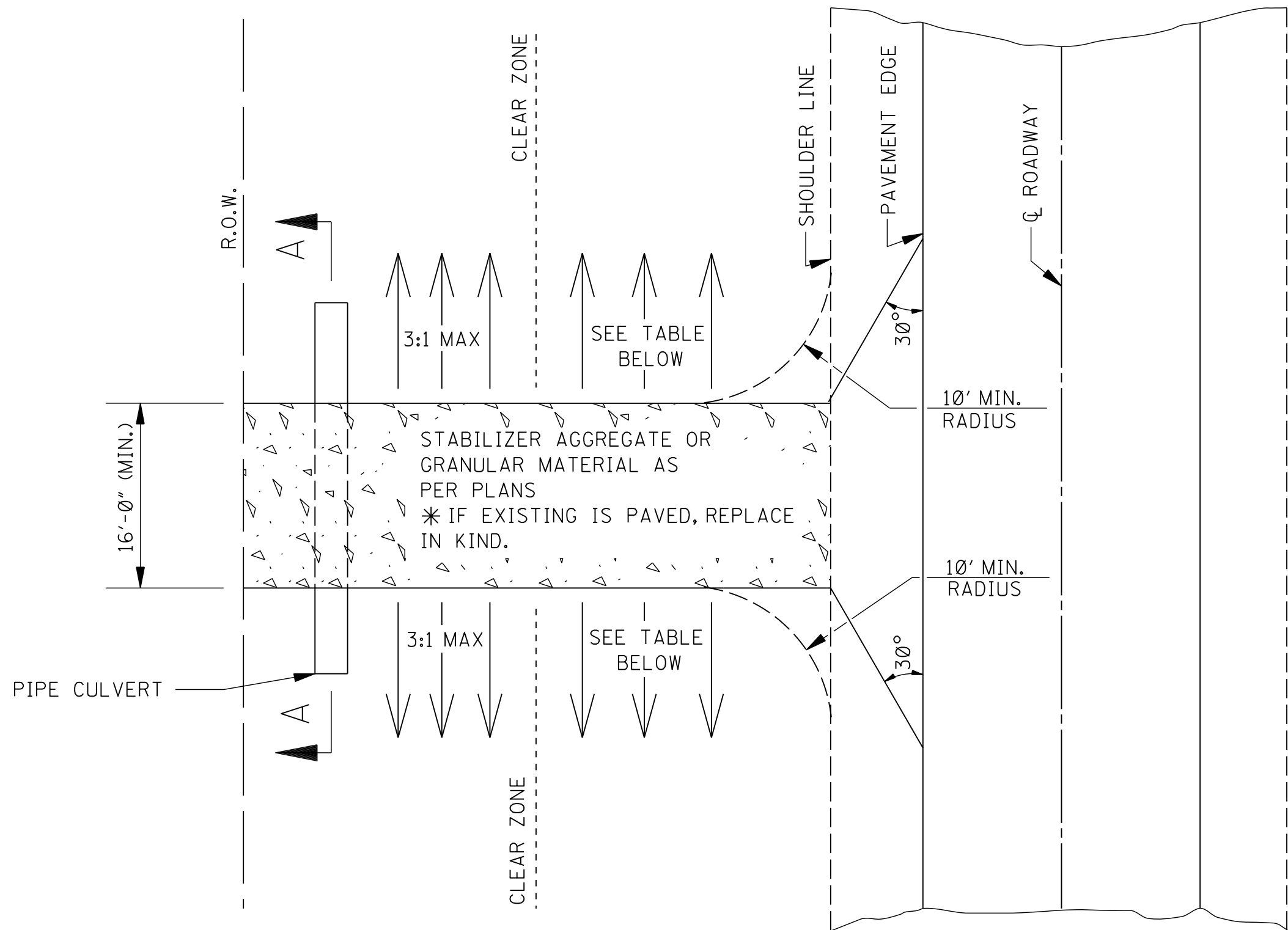
* * POSTED SPEED, OFF-PEAK 85 PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICIPATED OPERATING SPEED IN MPH.

				BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN
				REVISION	TRAFFIC CONTROL DETAILS DRUM PLACEMENT AND SHOULDER CLOSURE
				DATE	ISSUE DATE: AUGUST 01, 2017

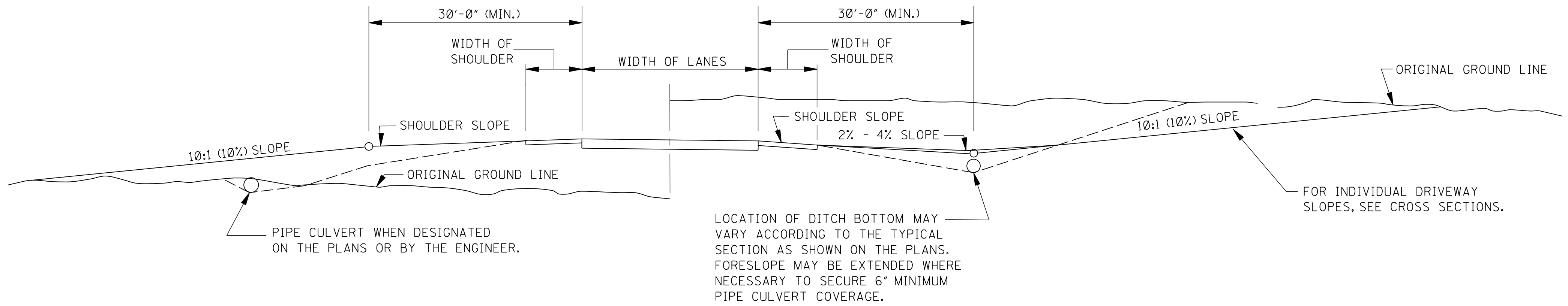
WORKING NUMBER
TCP-16
SHEET NUMBER
6366



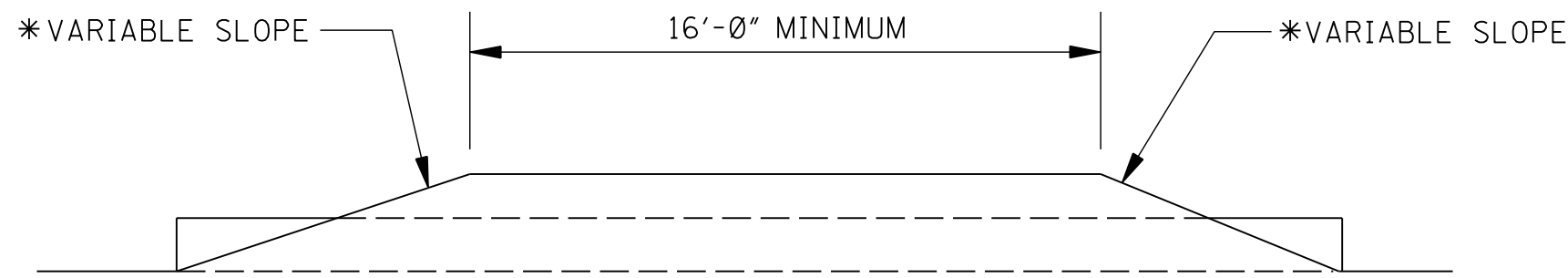
RAMP IN FILL SECTION



RAMP IN CUT SECTION



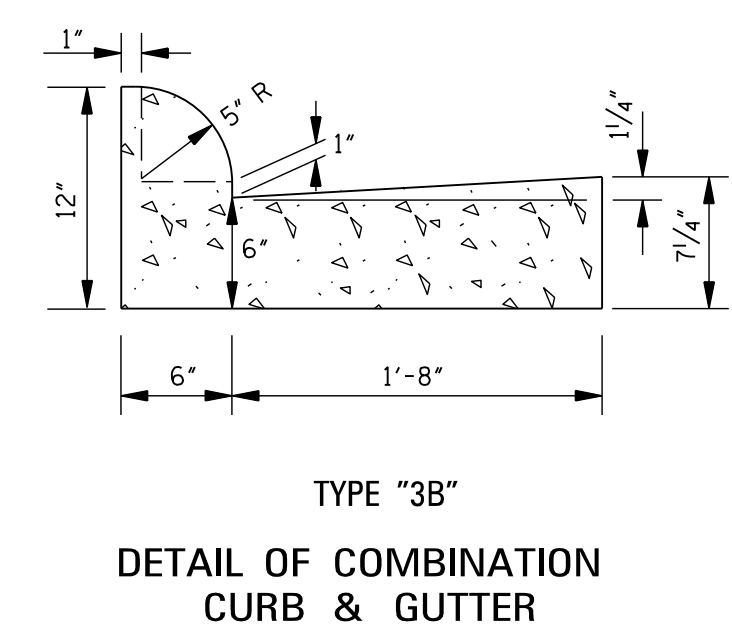
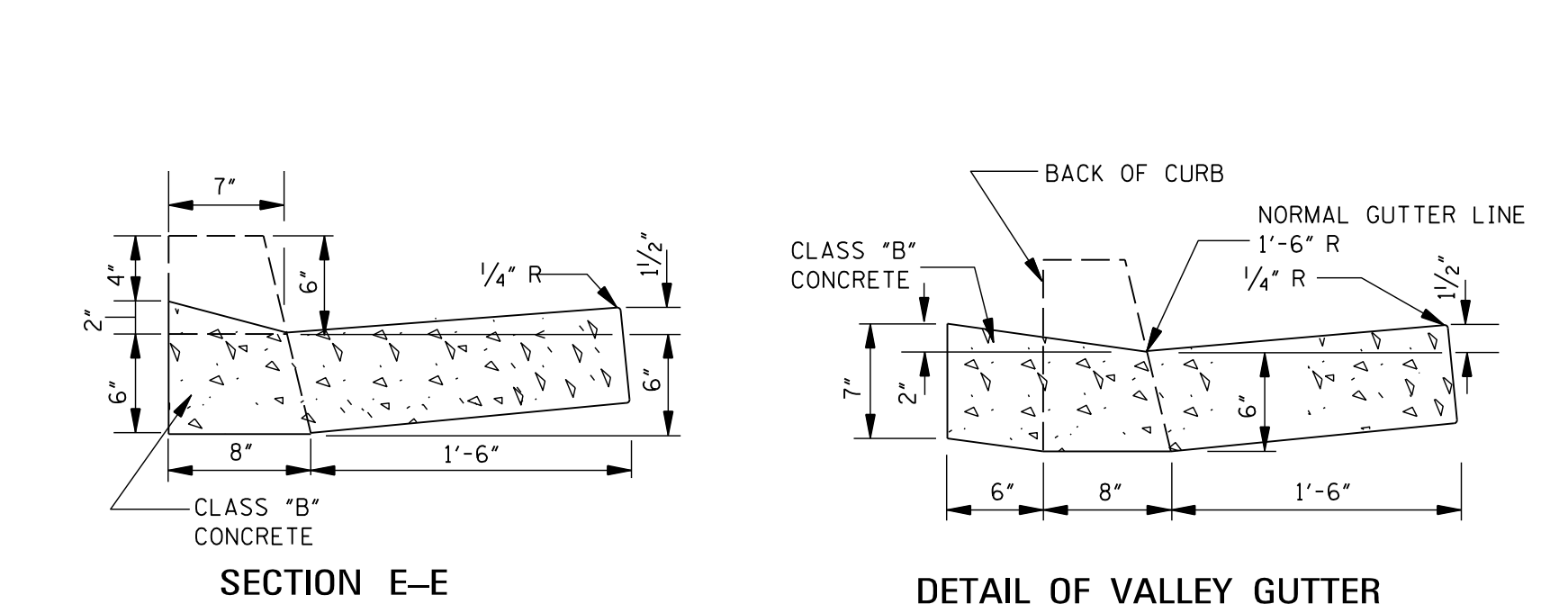
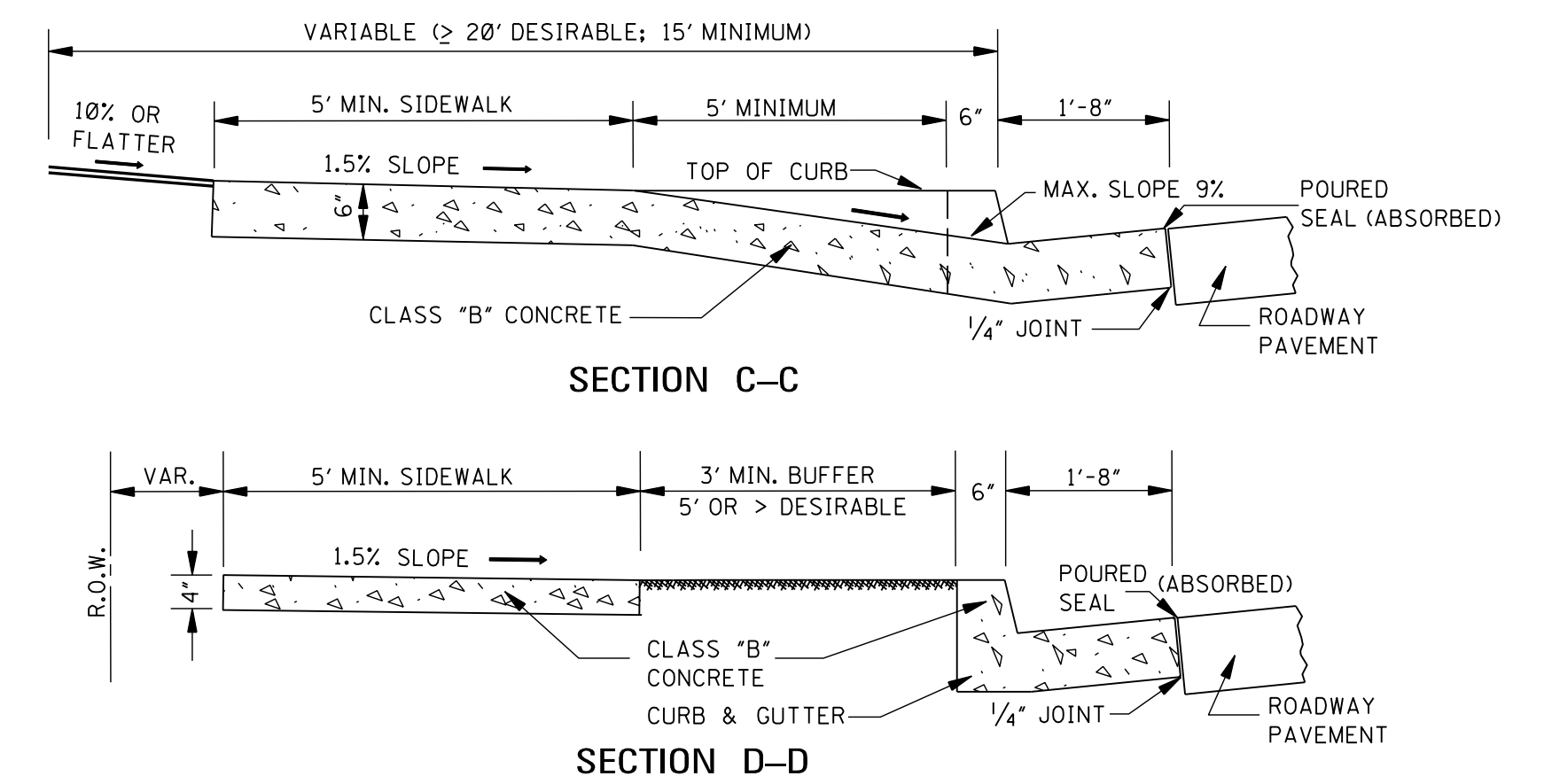
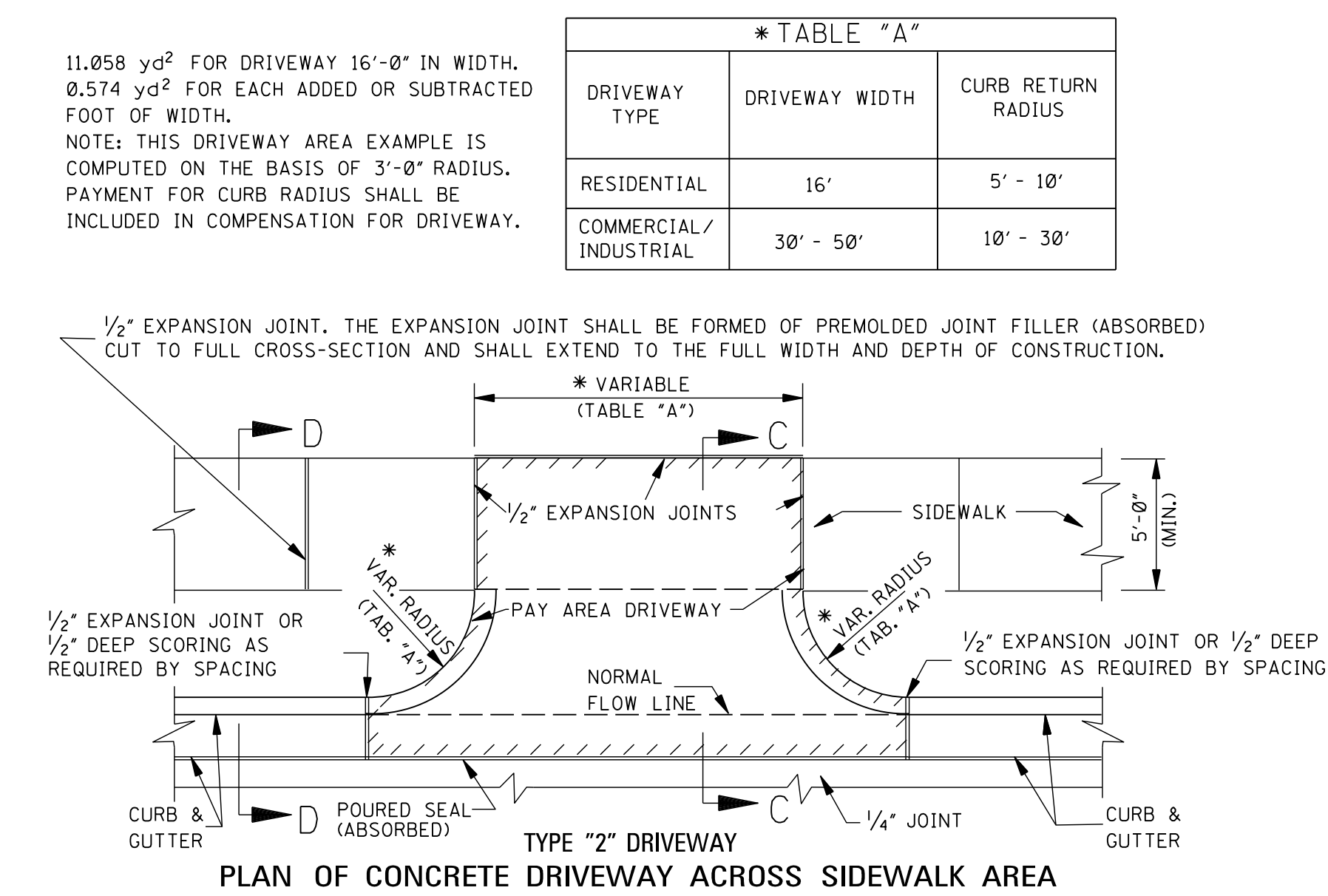
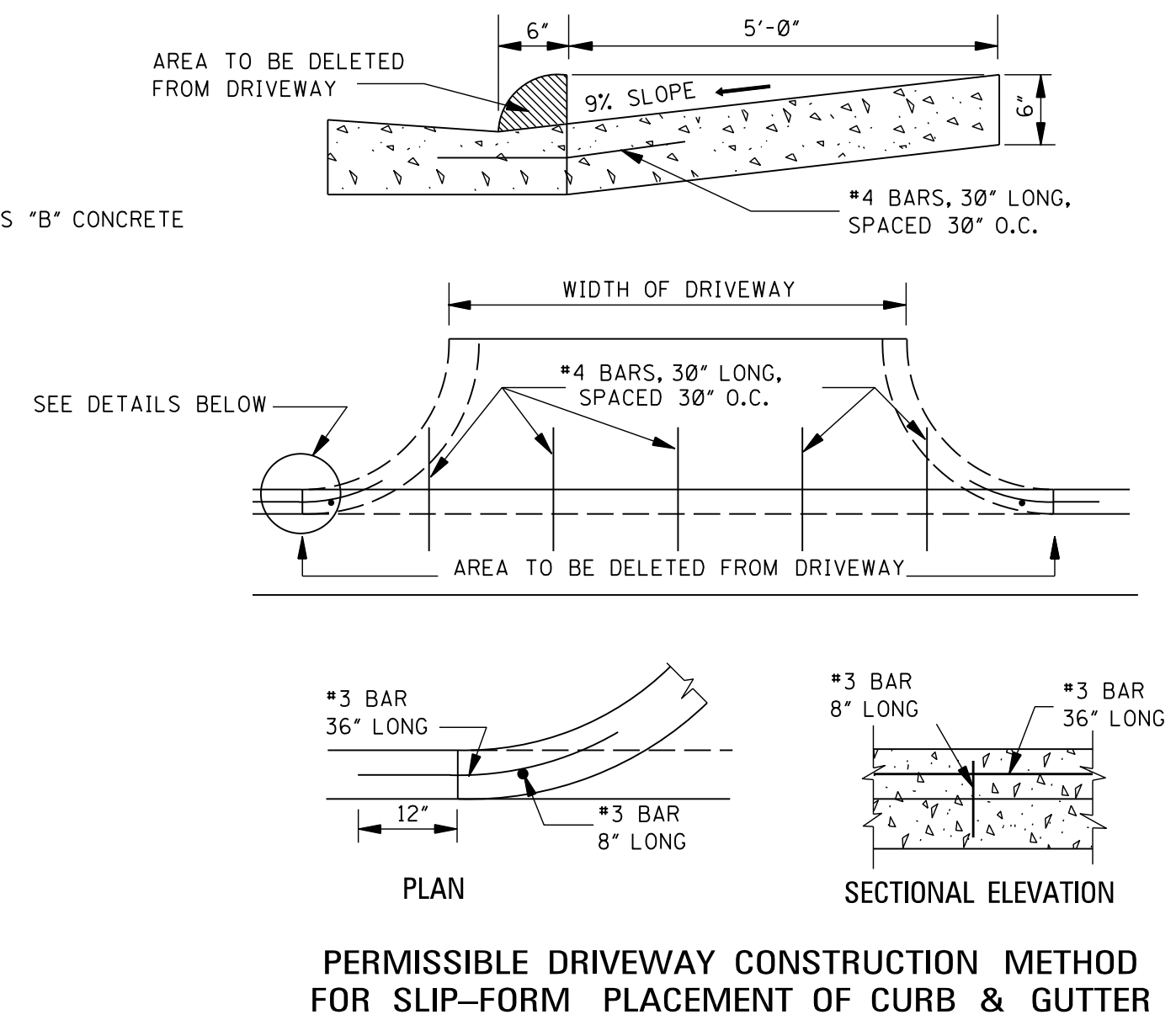
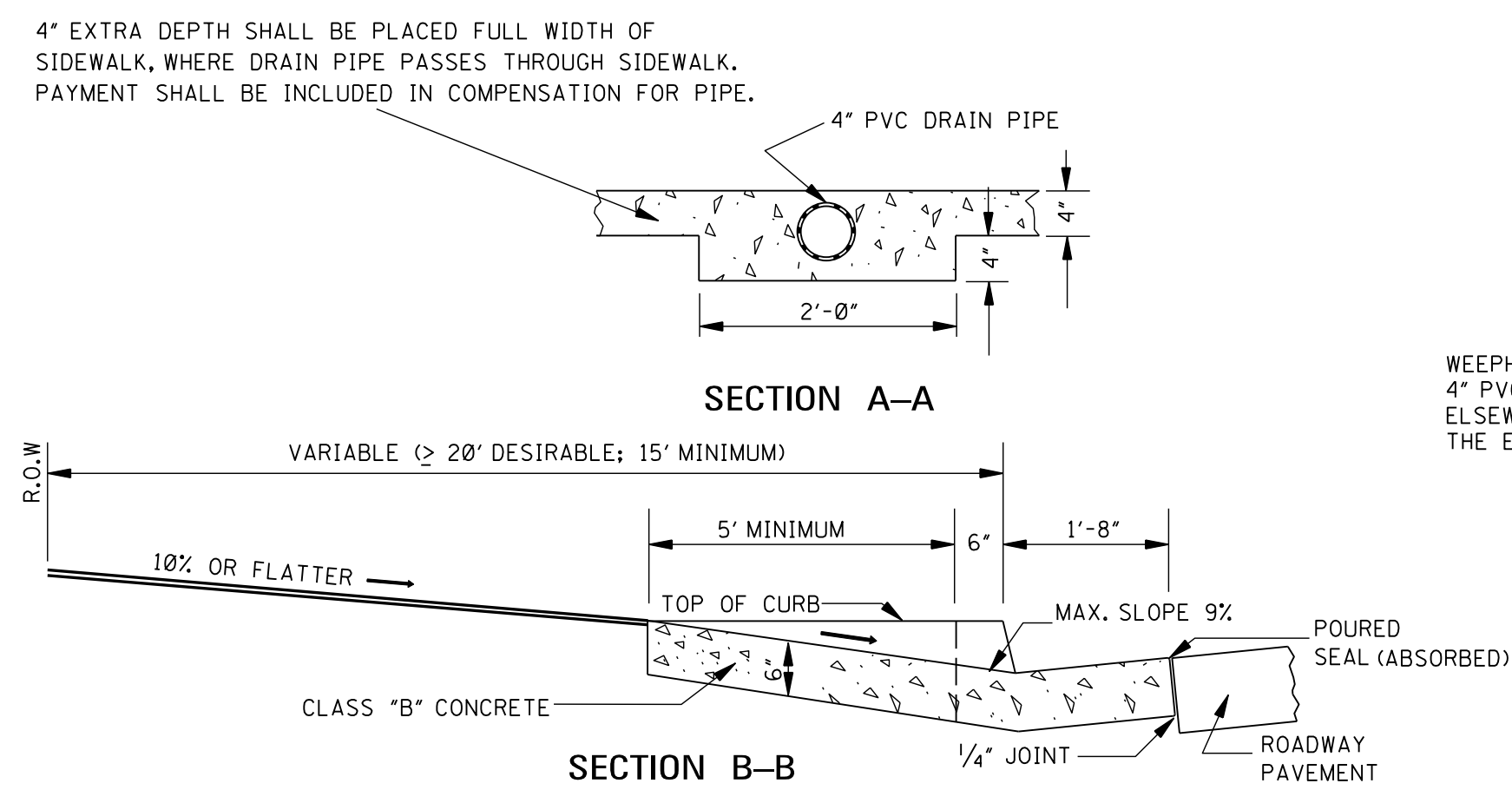
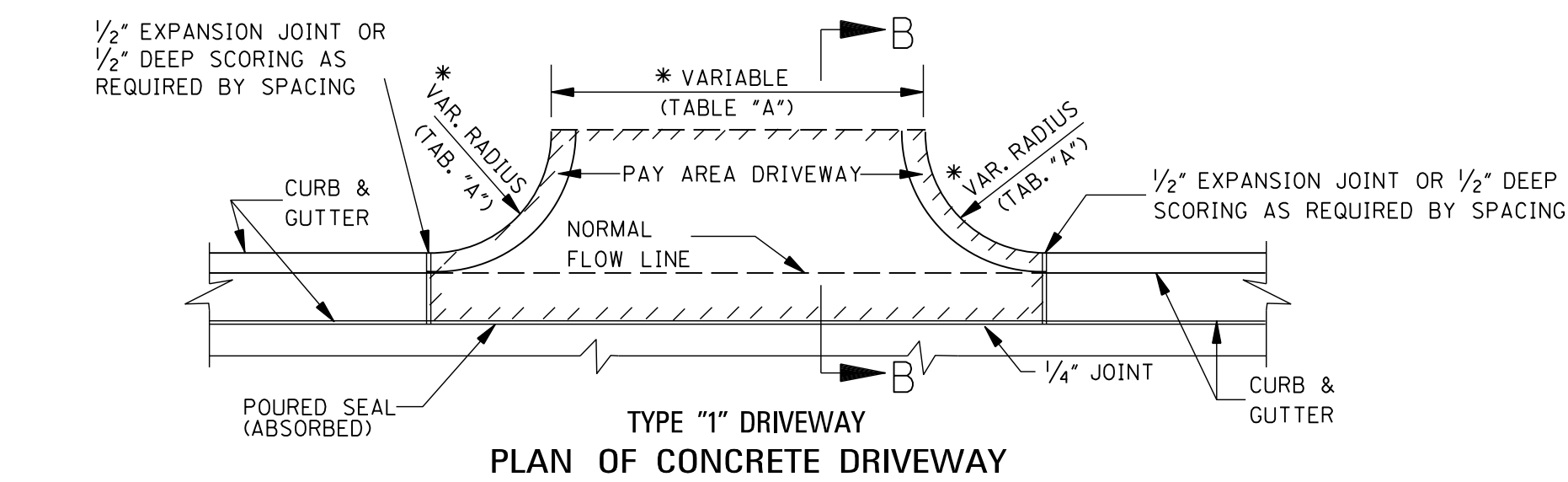
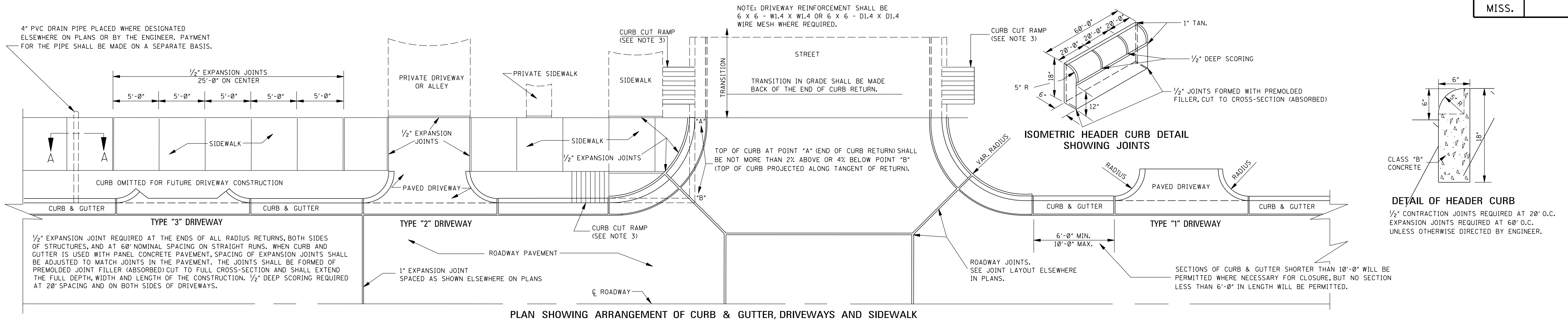
TYPICAL SECTION AT RAMP



SECTION A-A

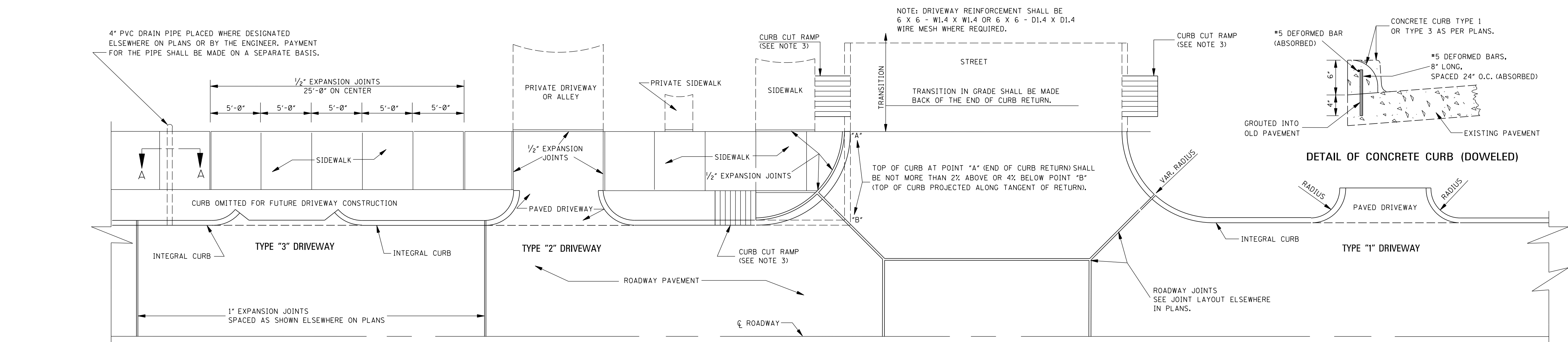
* DRIVEWAY SIDE SLOPES	
WITHIN CLEAR ZONE	V ≥ 50 mph - DES. 10:1 MAX 6:1 V ≤ 45 mph - MAX. 3:1
OUTSIDE CLEAR ZONE	MAXIMUM - 3:1

				BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN
				REVISION	RURAL DRIVEWAYS
				DATE	ISSUE DATE: AUGUST 01, 2017
					WORKING NUMBER RD-1 SHEET NUMBER 6403

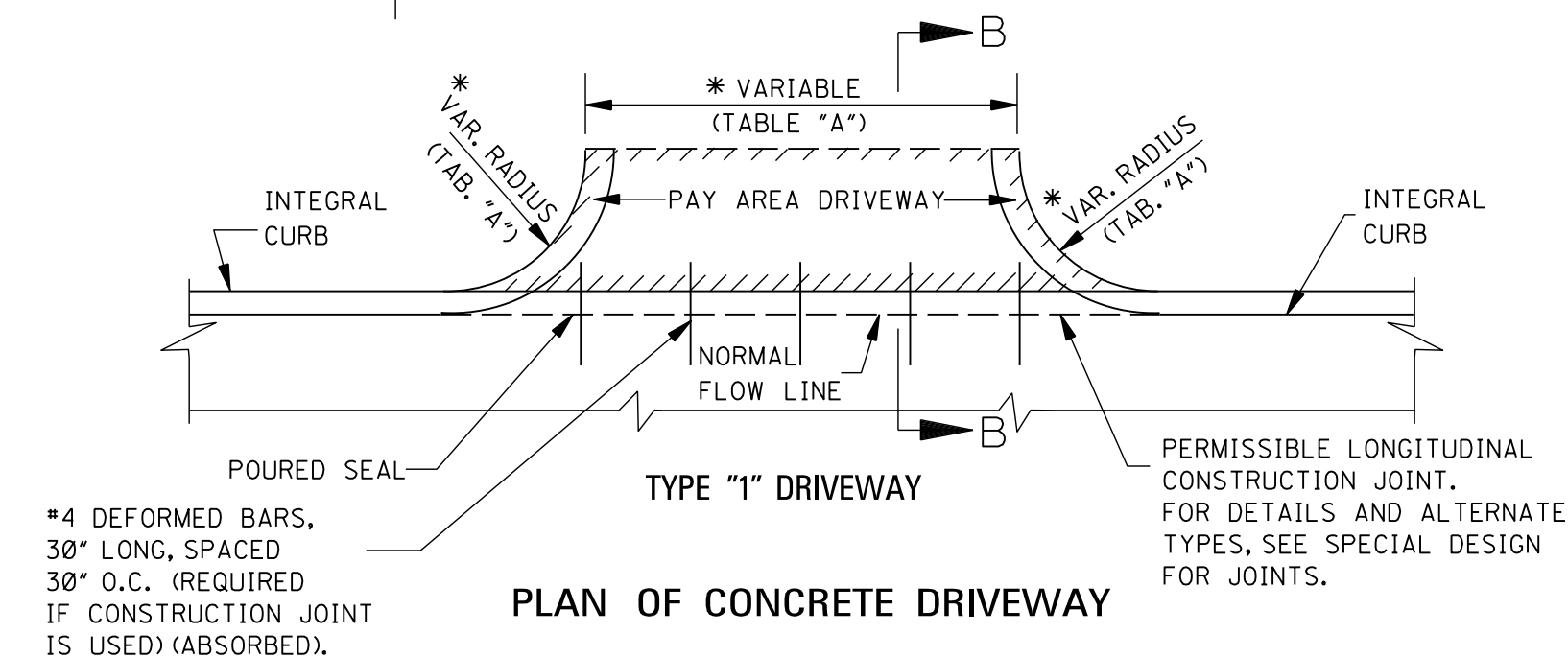


- GENERAL NOTES:
- TRAVERSE CONTRACTION JOINTS ARE REQUIRED AT 20' ON CENTER FOR ALL CONCRETE DRIVEWAYS THAT EXTEND PAST THE END OF THE CURB RETURN. A 1/2" WIDE EXPANSION JOINT IS REQUIRED AT THE END OF THE CURB RETURN AND AT 60' ON CENTER THROUGHOUT THE LENGTH OF THE DRIVEWAY. A LONGITUDINAL CONTRACTION JOINT IS REQUIRED FOR ALL DRIVEWAYS EXCEEDING 20' IN WIDTH.
 - SEE WK. NOS. CR-1, CR-2, CR-3 & CR-4 FOR DETAILS OF CURB-CUT RAMPS.
 - MAXIMUM 2% CROSS-SLOPE ON SIDEWALKS.

				BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN
				REVISION	DRIVEWAYS, CURB & GUTTER, & SIDEWALK
				DATE	ISSUE DATE: AUGUST 01, 2017
					WORKING NUMBER SD-1
					SHEET NUMBER 6419



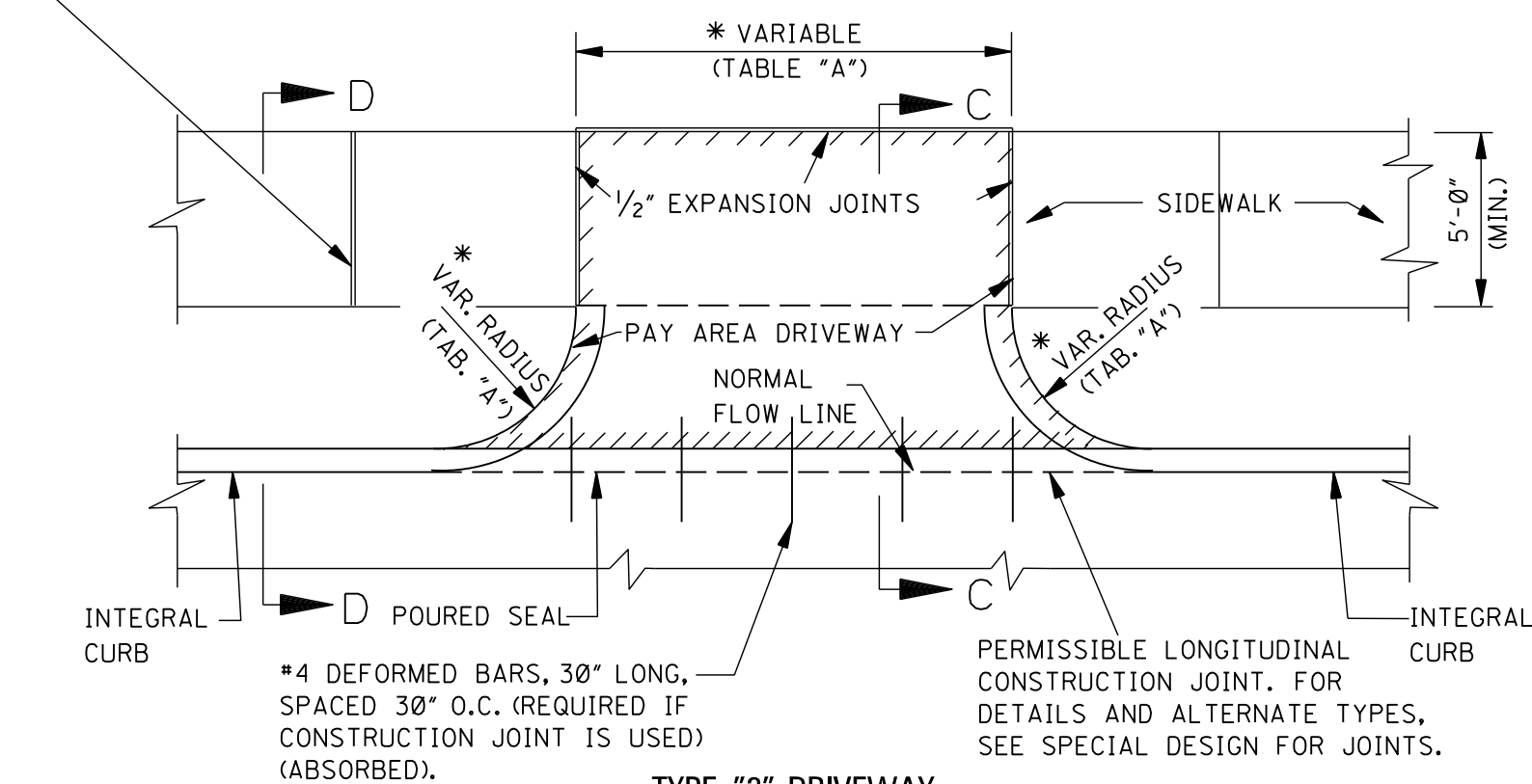
PLAN SHOWING ARRANGEMENT OF INTEGRAL CURB, DRIVEWAYS AND SIDEWALK



*TABLE "A"		
DRIVEWAY TYPE	DRIVEWAY WIDTH (ft)	CURB RETURN RADIUS (ft)
RESIDENTIAL	16'	5' - 10'
COMMERCIAL/ INDUSTRIAL	30' - 50'	10' - 30'

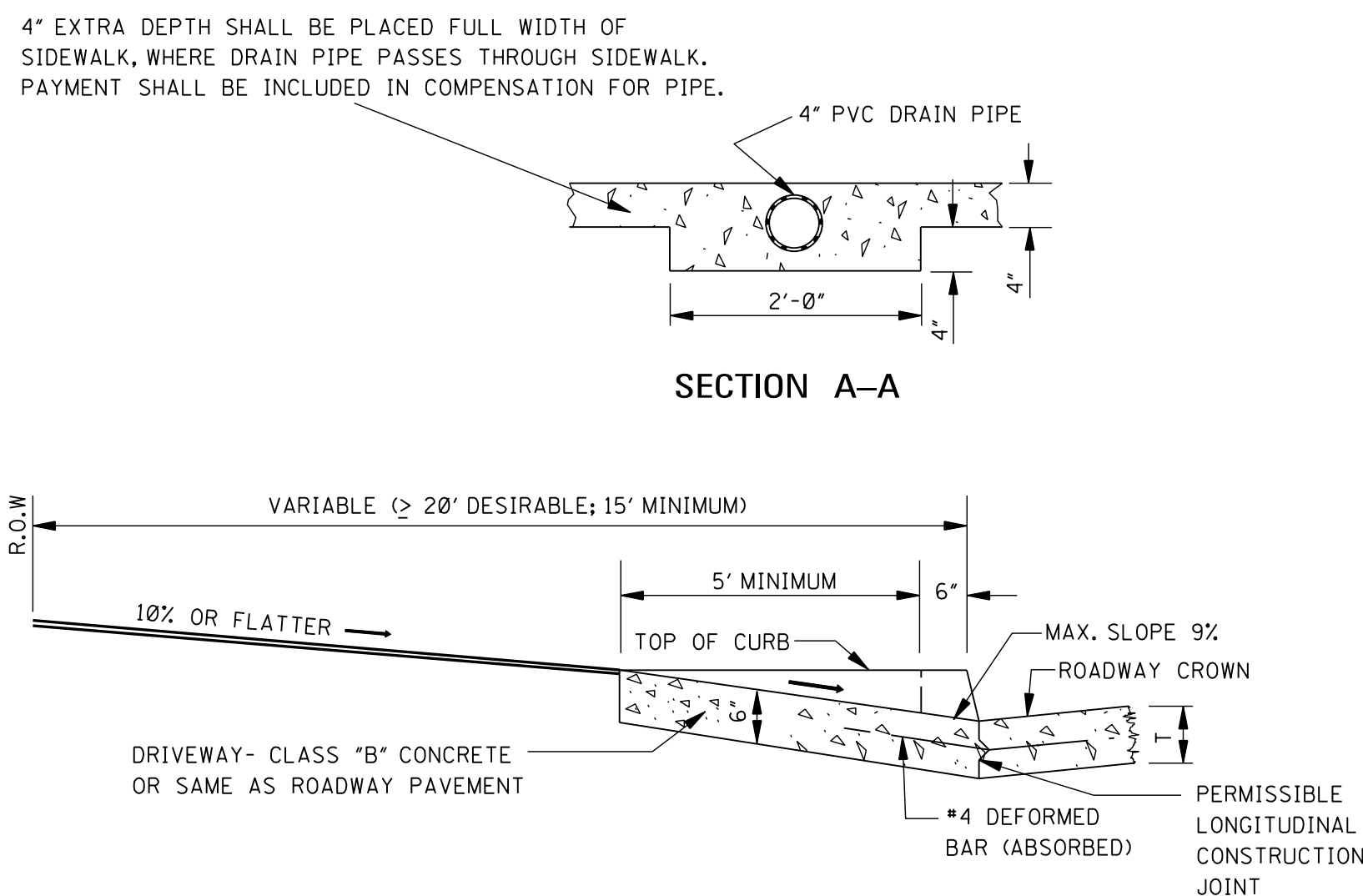
5.761 yd² FOR DRIVEWAY 16'-0" IN WIDTH.
0.333 yd² FOR EACH ADDED OR SUBTRACTED
FOOT OF WIDTH.
NOTE: THIS DRIVEWAY AREA EXAMPLE IS
COMPUTED ON THE BASIS OF 3'-0" RADIUS.
PAYMENT FOR CURB RADIUS SHALL BE
INCLUDED IN COMPENSATION FOR DRIVEWAY.

1/4" EXPANSION JOINT. THE EXPANSION JOINT SHALL BE FORMED OF PREMOLDED JOINT FILLER CUT TO FULL CROSS-SECTION AND SHALL EXTEND TO THE FULL WIDTH AND DEPTH OF CONSTRUCTION.

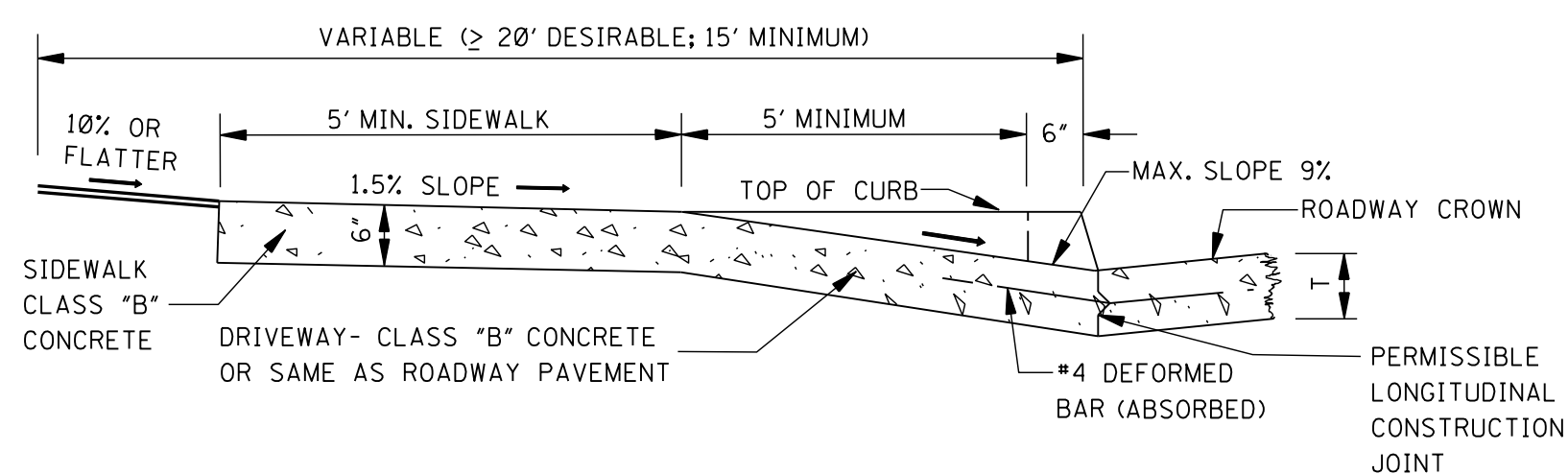


PLAN OF CONCRETE DRIVEWAY ACROSS SIDEWALK AREA

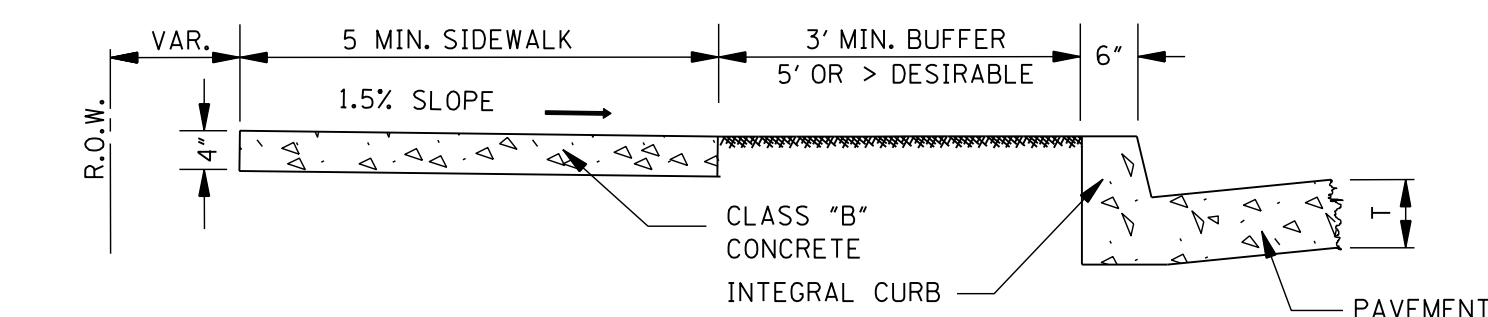
NOTE: THIS TYPE CONSTRUCTION SHALL BE USED WHERE DESIGNATED ELSEWHERE ON PLANS OR BY THE ENGINEER.



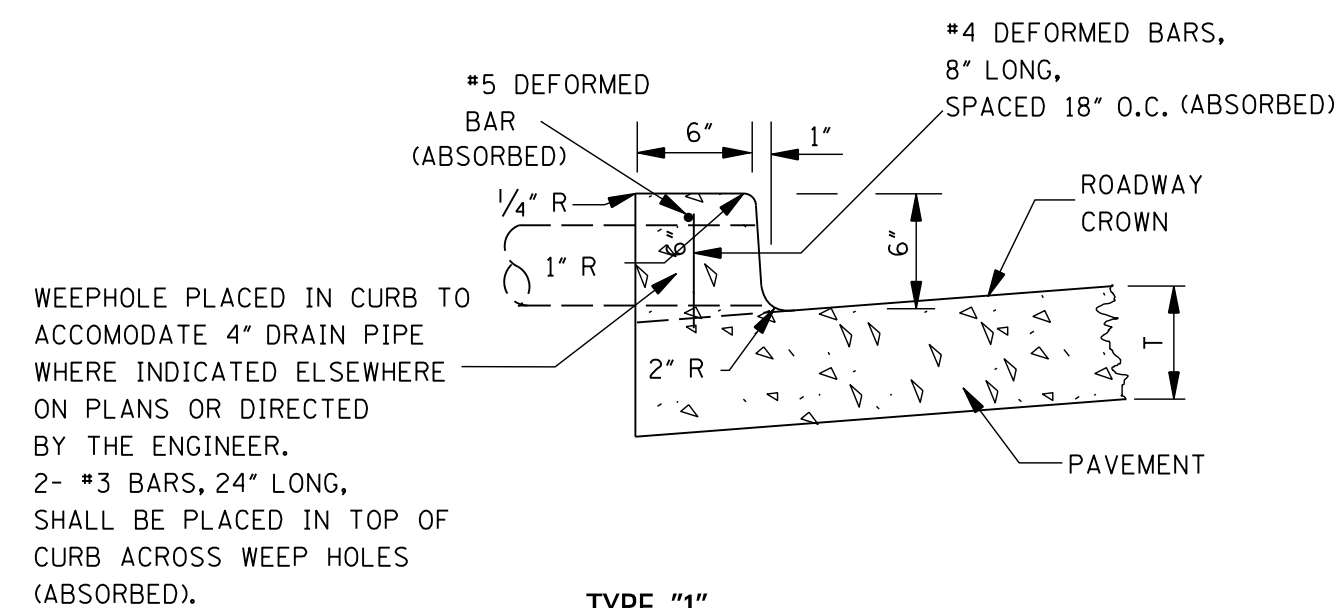
SECTION B-B



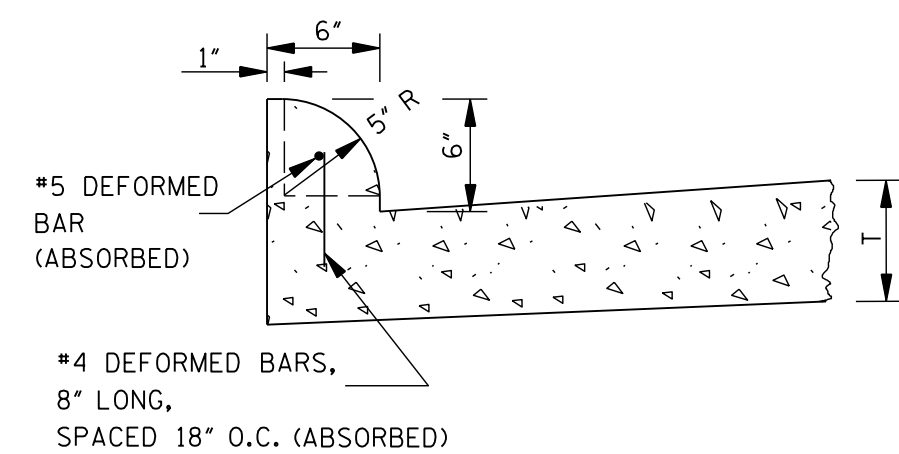
SECTION C-C



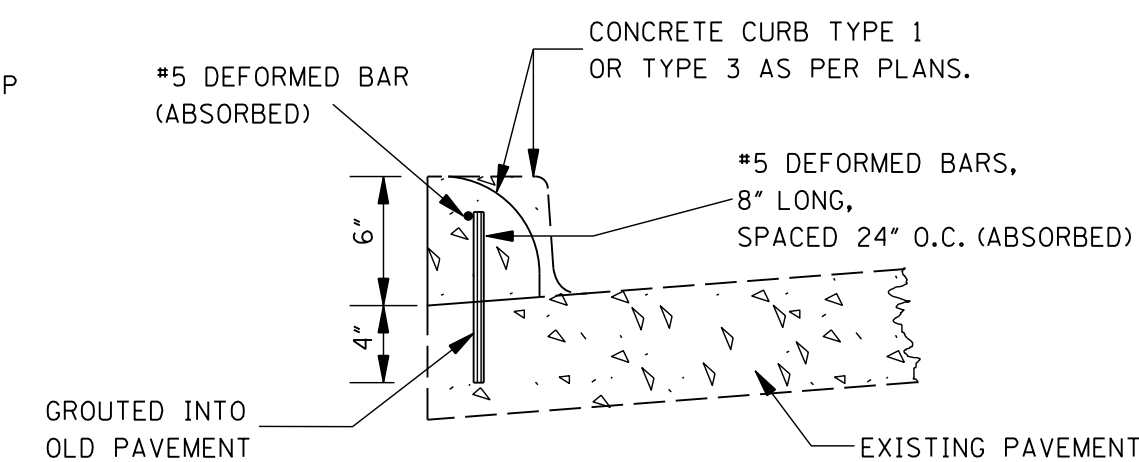
SECTION E-E



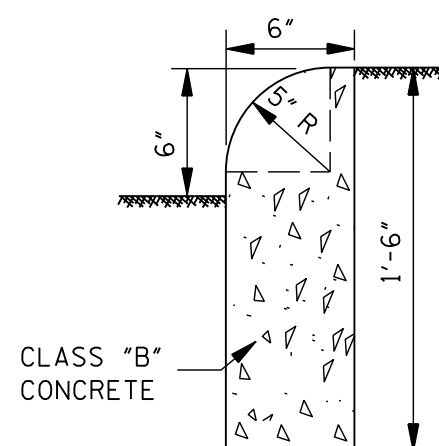
TYPE "1"
DETAIL OF
INTEGRAL CURB



TYPE "3"
DETAIL OF
INTEGRAL CURB

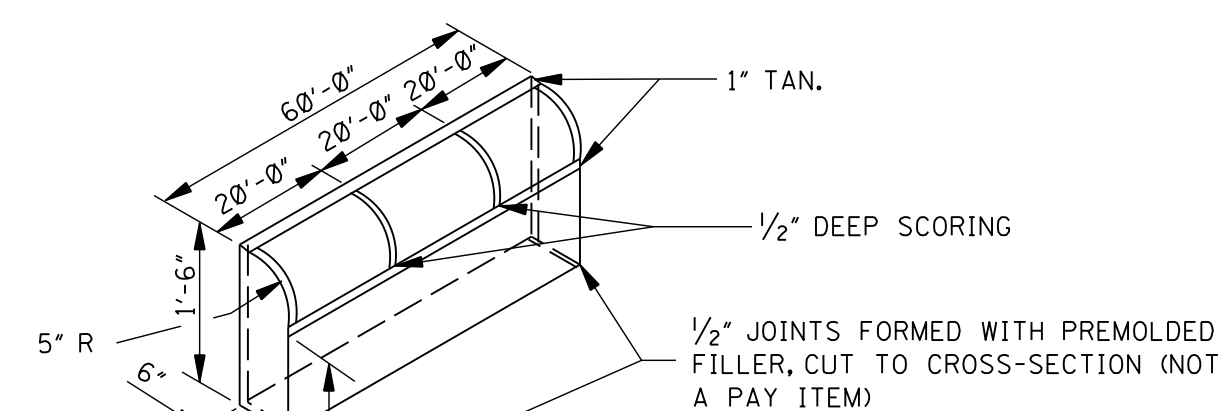


DETAIL OF CONCRETE CURB (DOWELED)



DETAIL OF HEADER CURB

CONTRACTION JOINTS REQUIRED AT 20' O.C.
EXPANSION JOINTS REQUIRED AT 60' O.C.
UNLESS OTHERWISE DIRECTED BY ENGINEER.



ISOMETRIC HEADER CURB DETAIL
SHOWING JOINTS

GENERAL NOTES:

1. TRAVERSE CONTRACTION JOINTS ARE REQUIRED AT 20' ON CENTER FOR ALL CONCRETE DRIVEWAYS THAT EXTEND PAST THE END OF THE CURB RETURN. A 1/2" WIDE EXPANSION JOINT IS REQUIRED AT THE END OF THE CURB RETURN AND AT 60' ON CENTER THROUGHOUT THE LENGTH OF THE DRIVEWAY. A LONGITUDINAL CONTRACTION JOINT IS REQUIRED FOR ALL DRIVEWAYS EXCEEDING 20' IN WIDTH.
2. SEE WK. NOS. CR-1, CR-2, CR-3 & CR-4 FOR DETAILS OF CURB-CUT RAMPS.
3. MAXIMUM 2% CROSS-SLOPE ON SIDEWALKS.

2. SEE WK. NOS. CR-1, CR-2, CR-3 & CR-4 FOR DETAILS OF CURB-CUT RAMPS.
3. MAXIMUM 2% CROSS-SLOPE ON SIDEWALKS.

3. MAXIMUM 2% CROSS-SLOPE ON SIDEWALKS.

				BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN
				REVISION	
				DATE	DRIVEWAYS, INTEGRAL CURB & SIDEWALK  WORKING NUMBER SD-2 SHEET NUMBER 6420
					ISSUE DATE: <u>AUGUST 01, 2017</u>

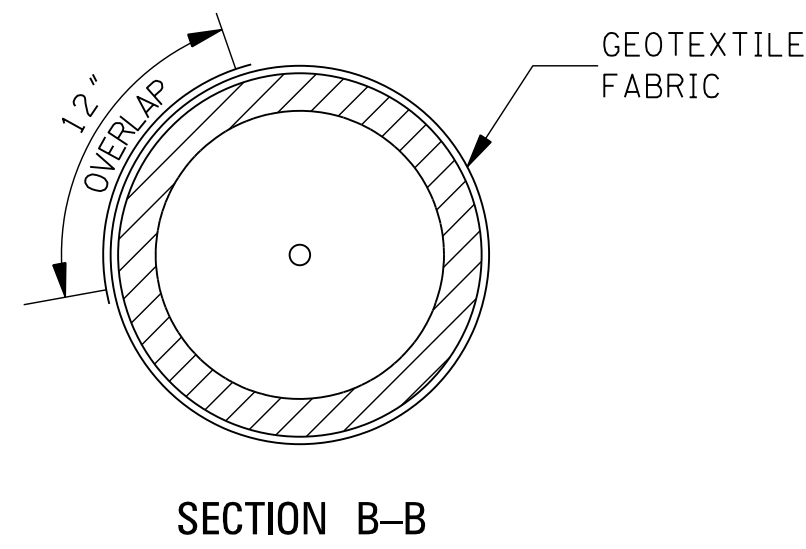
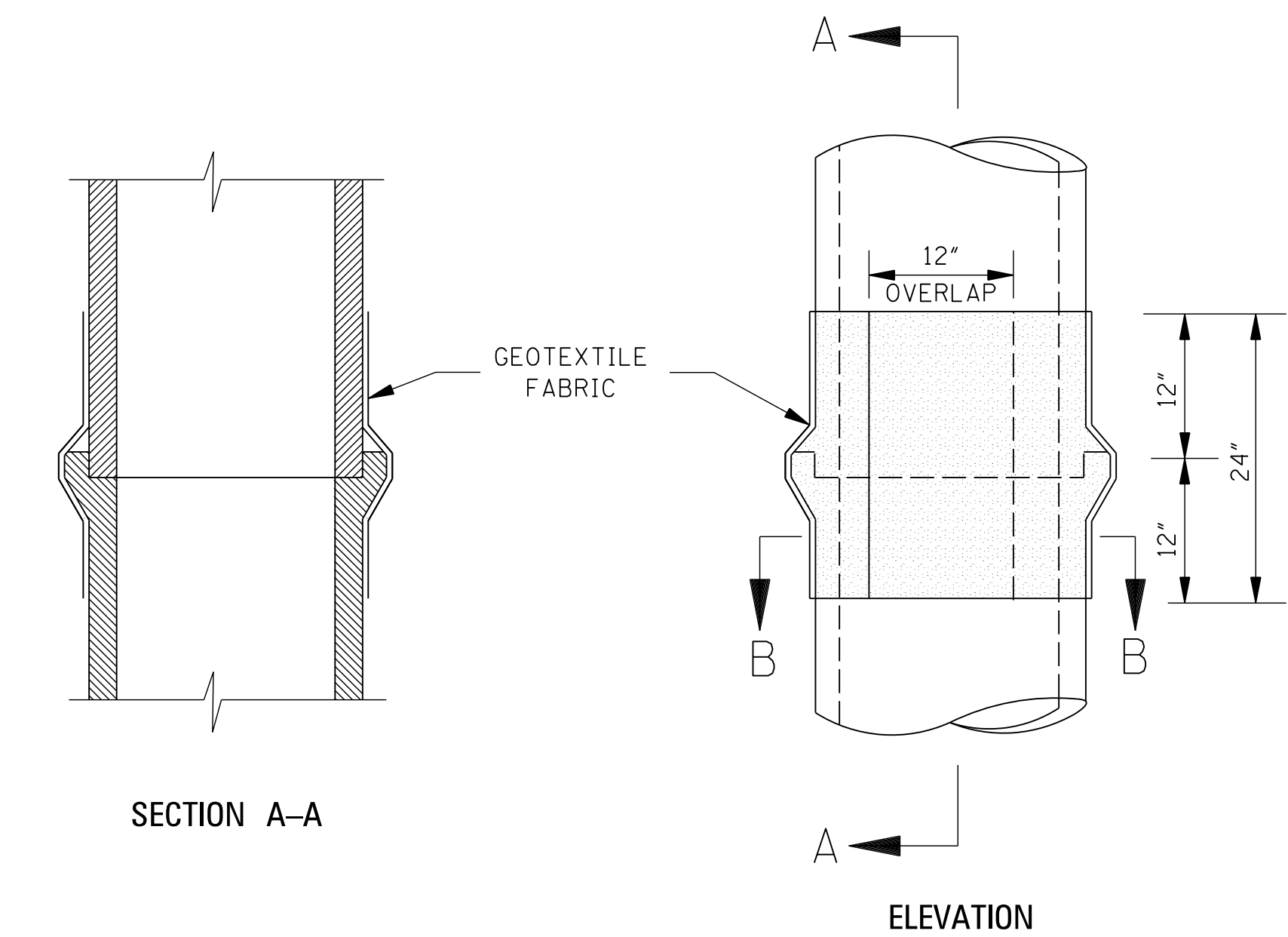
DRIVEWAYS, INTEGRAL CURB & SIDEWALK



WORKING NUMBER
SD-2

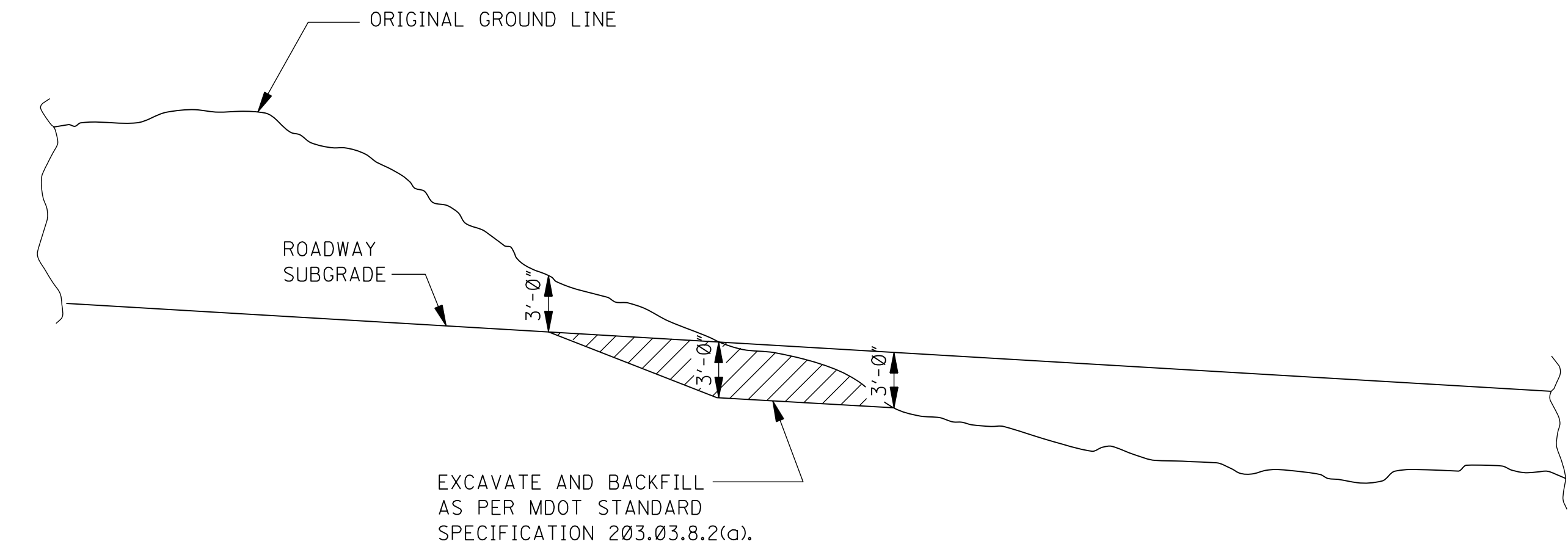
SHEET NUMBER	6420
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ISSUE DATE: AUGUST 01, 2017

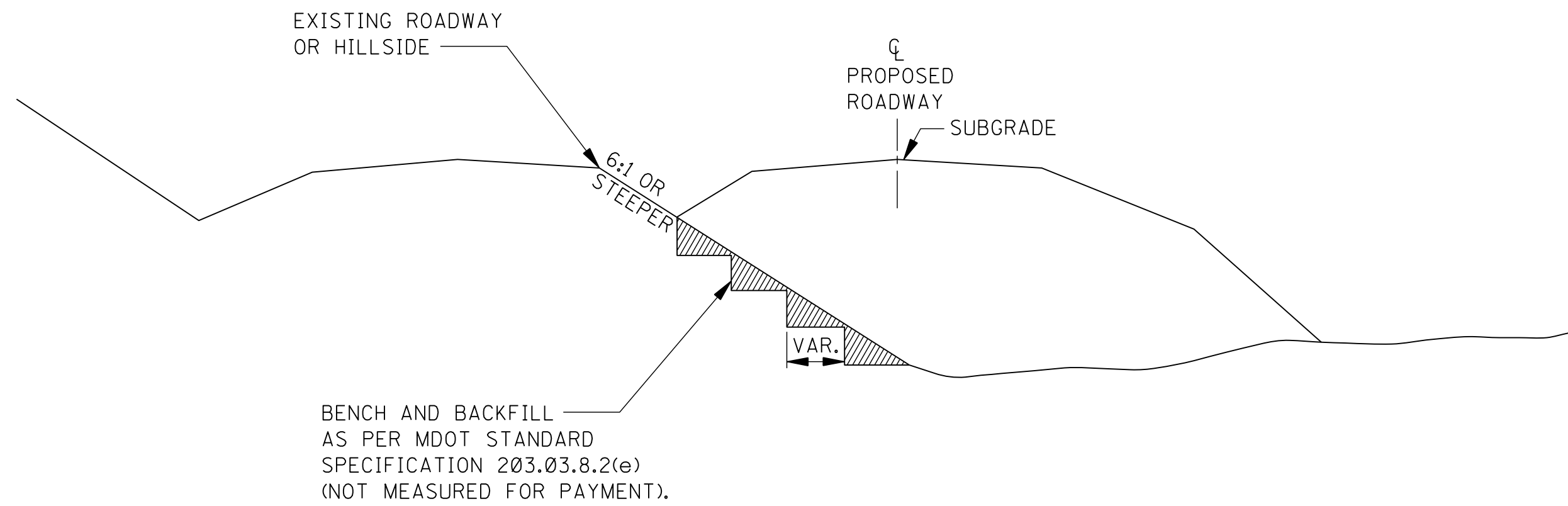


STACKED PIPE JOINTS

NOTE: EACH STACKED PIPE JOINT SHALL BE TREATED FIRST WITH A BITUMINOUS PLASTIC SEALER MATERIAL AND SECONDLY WRAPPED WITH 24" WIDE TYPE V GEOTEXTILE FABRIC (AASHTO M 288). THE FABRIC SHALL OVERLAP A MINIMUM OF 12" AT THE WRAP AND SHALL BE SECURED WITH STRING OR WIRE AS APPROVED BY THE ENGINEER PRIOR TO BACKFILLING. THE COST SHALL BE ABSORBED IN OTHER ITEMS BID.



PROFILE SHOWING REQUIRED EXCAVATION AT GRADE POINTS

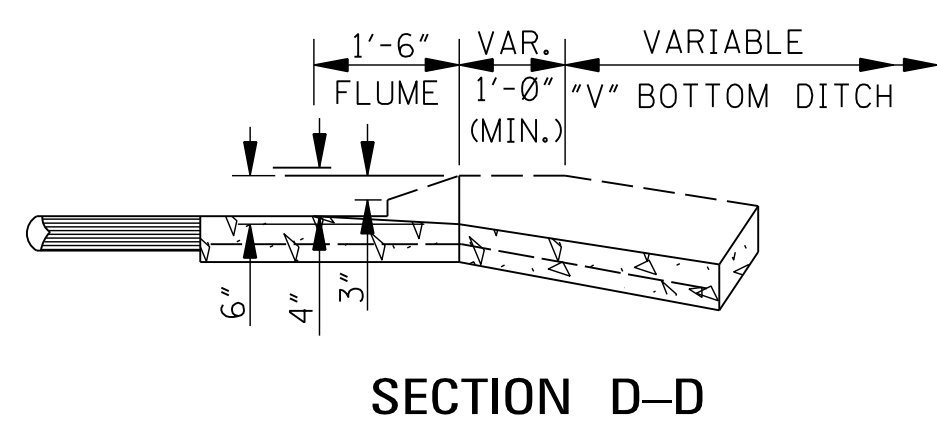
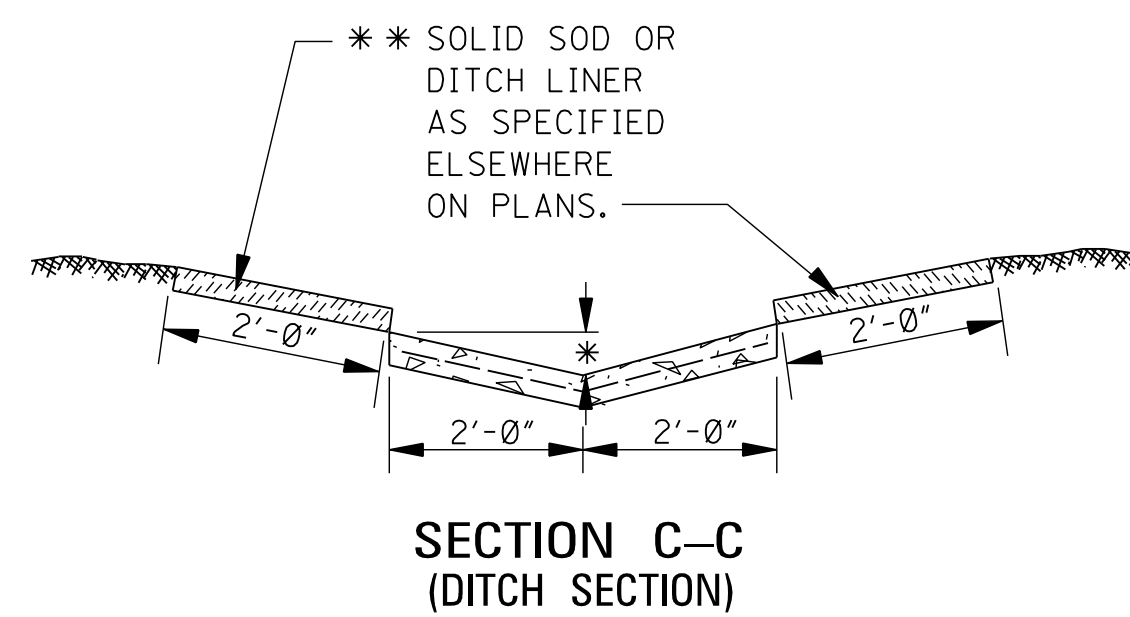
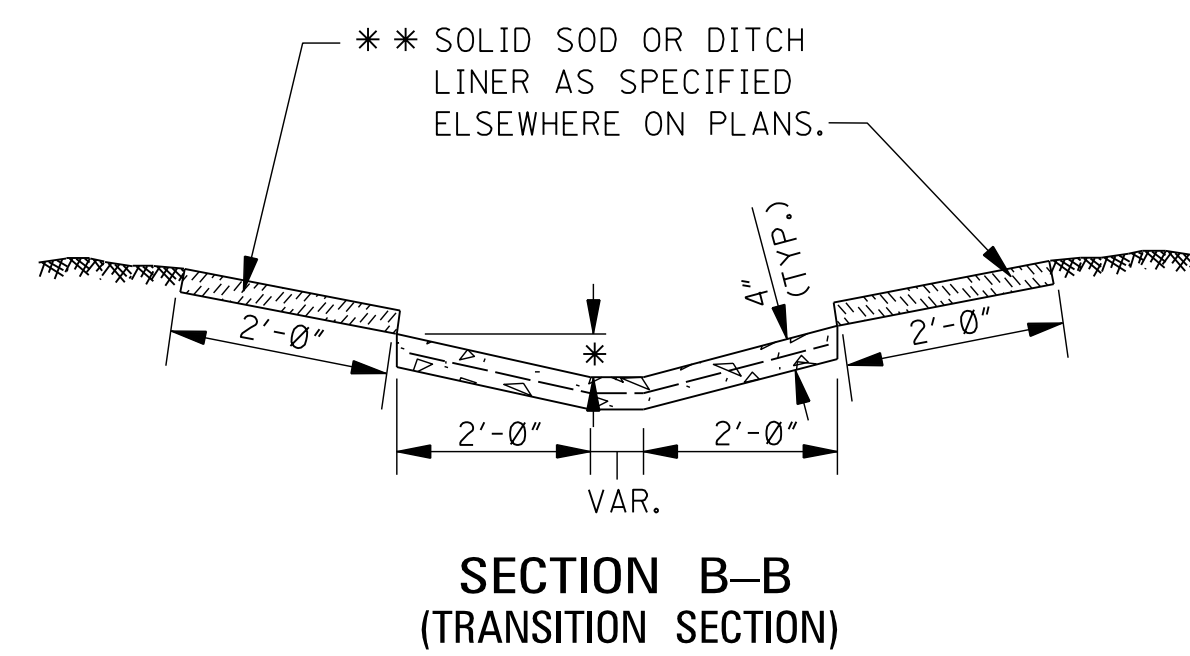
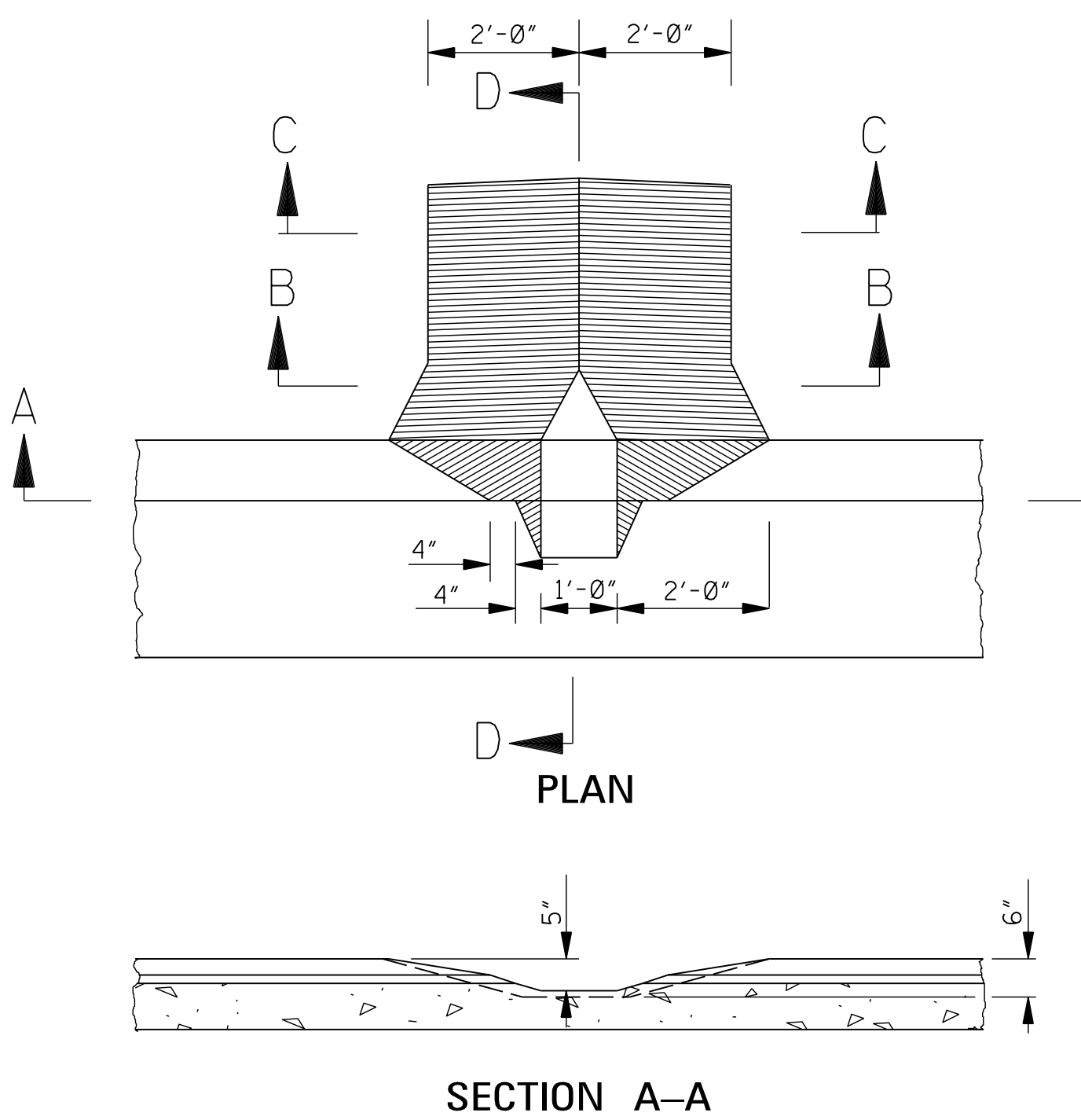


CROSS-SECTION SHOWING REQUIRED BENCHING UNDER EMBANKMENTS ON STEEP SLOPES

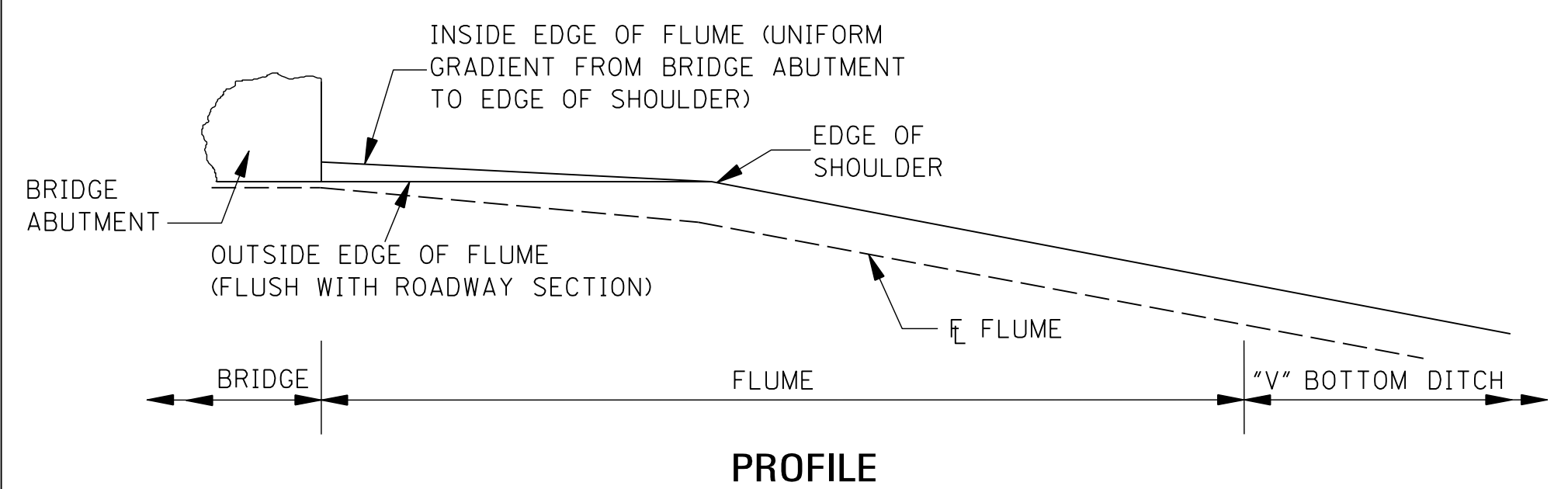
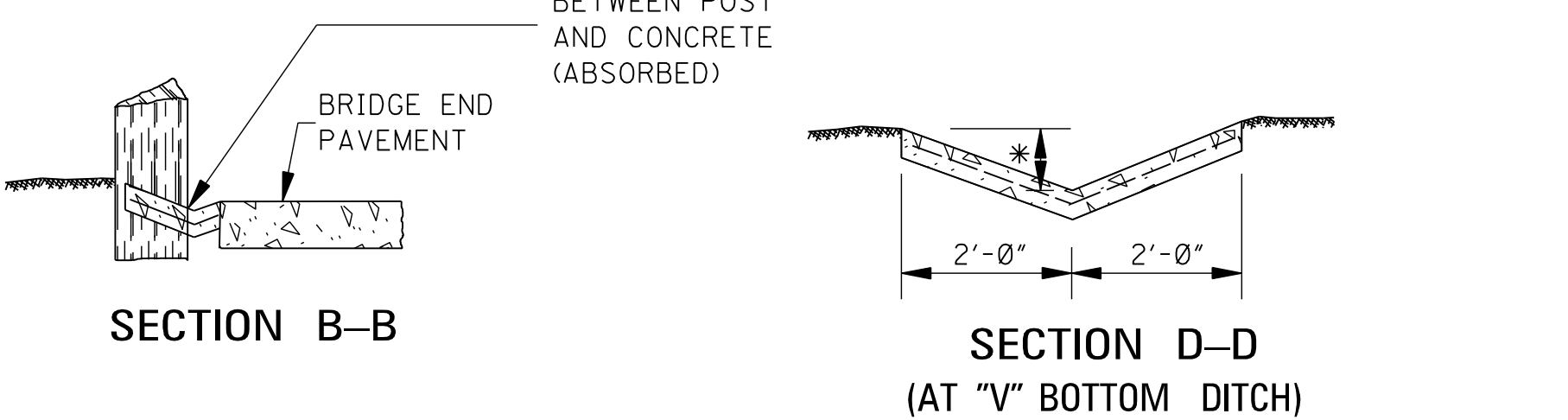
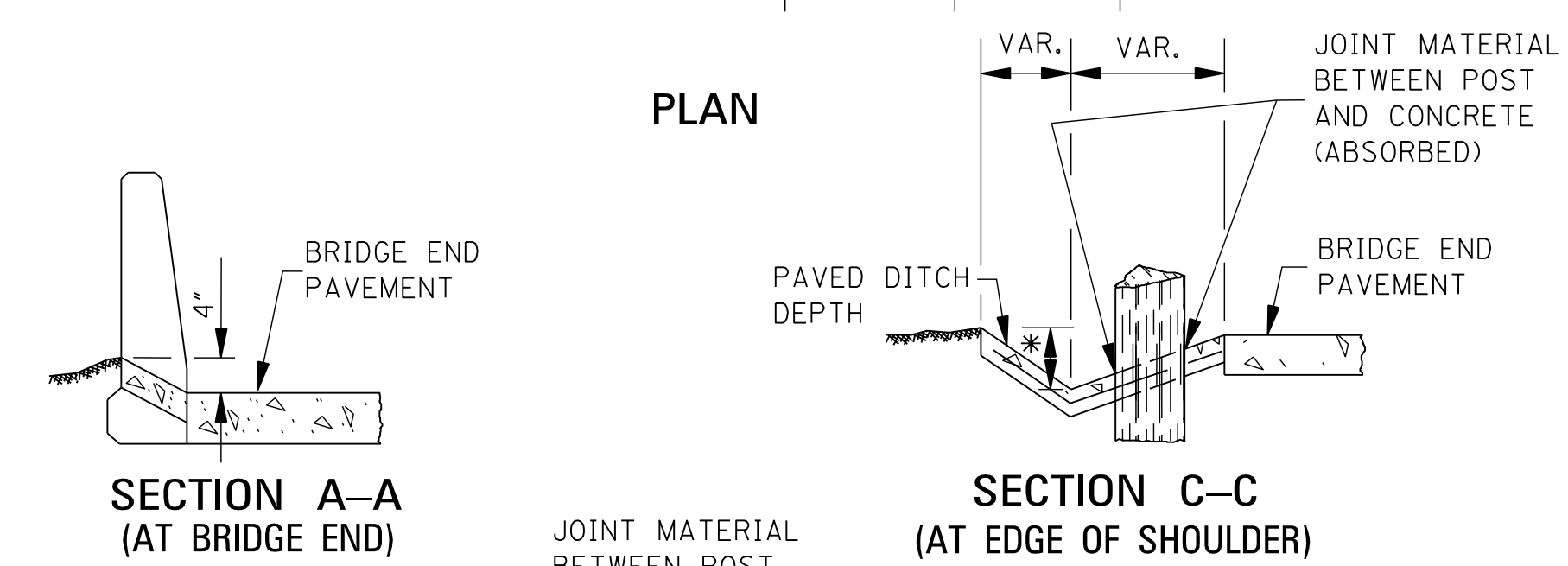
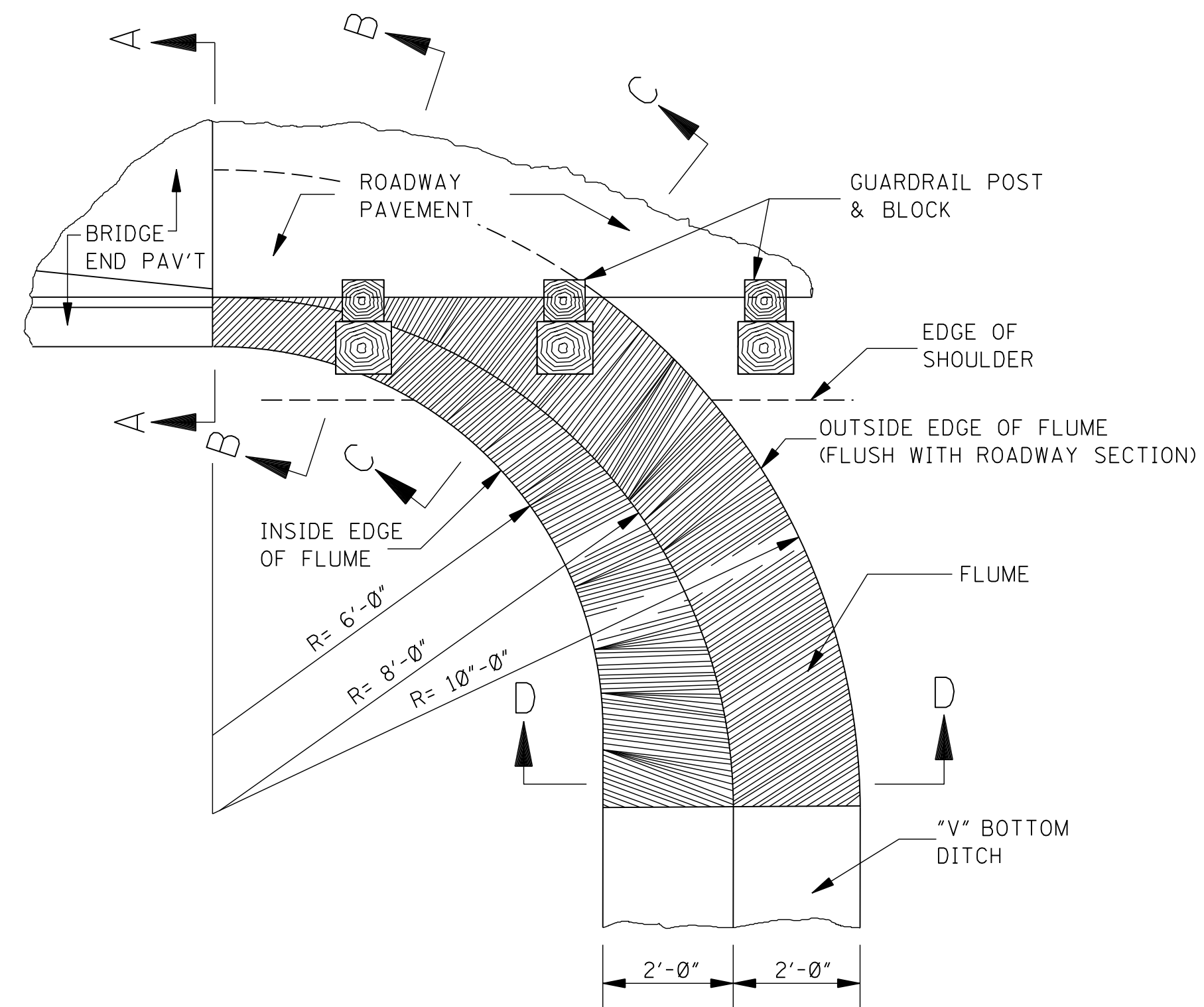
EXCAVATION AT GRADE POINTS

				BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN
				REVISION	MISCELLANEOUS DETAIL SHEET
					1. STACKED PIPE JOINTS
					2. EXCAVATION AT GRADE POINTS
				DATE	ISSUE DATE: AUGUST 01, 2017
					 WORKING NUMBER MDS-1 SHEET NUMBER 6425

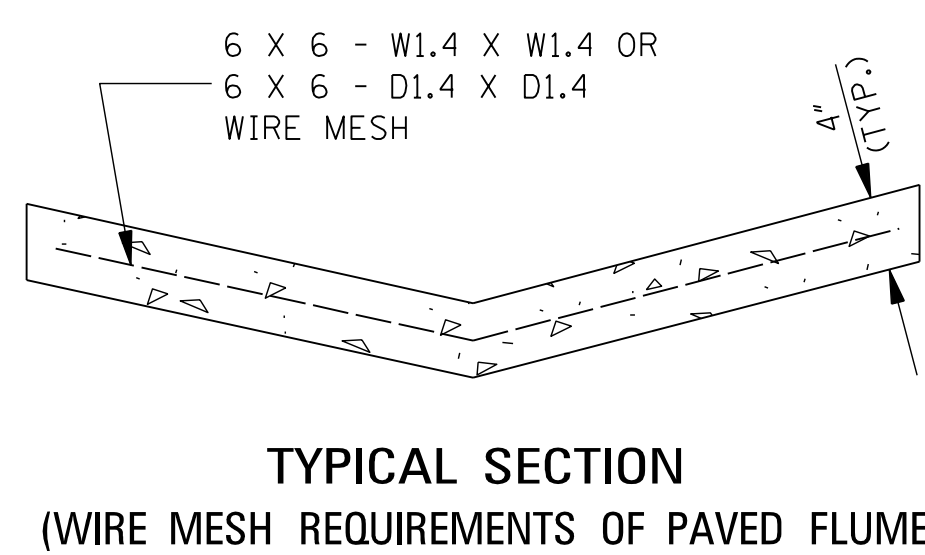
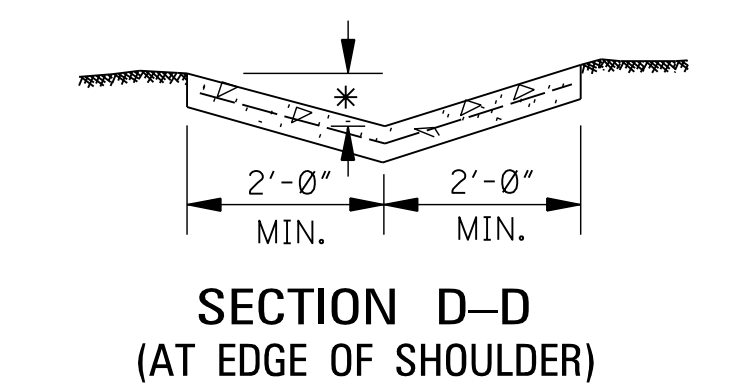
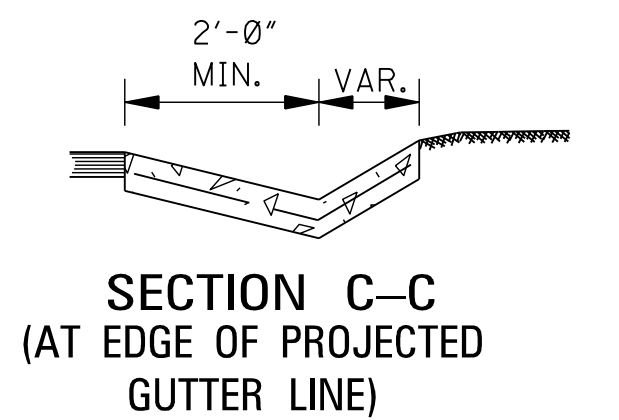
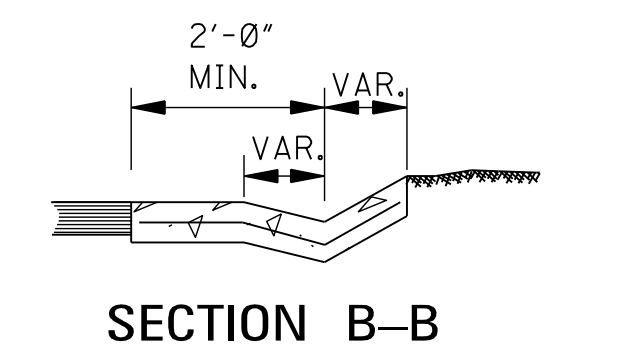
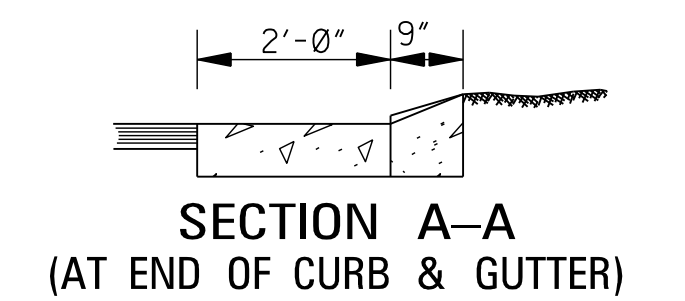
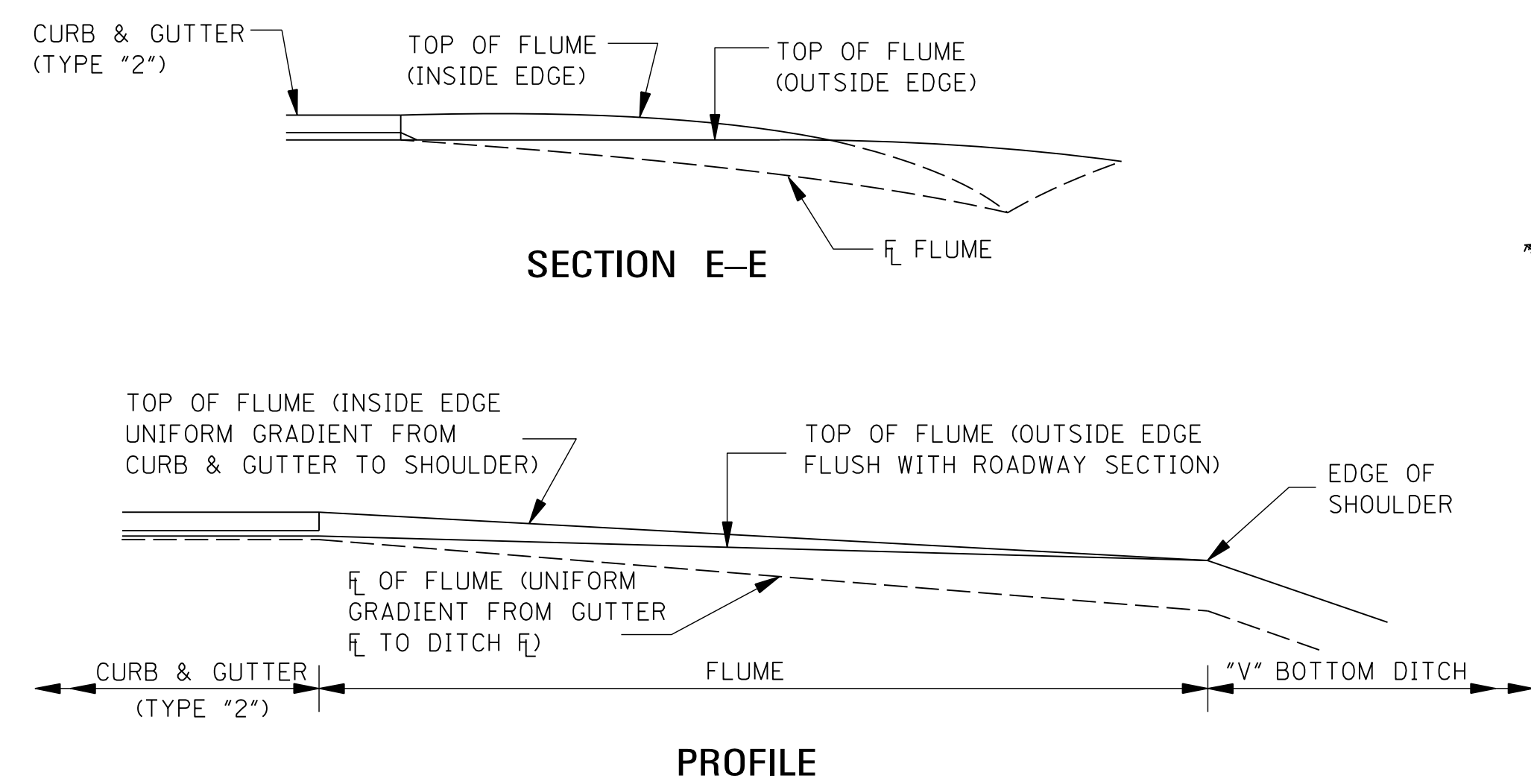
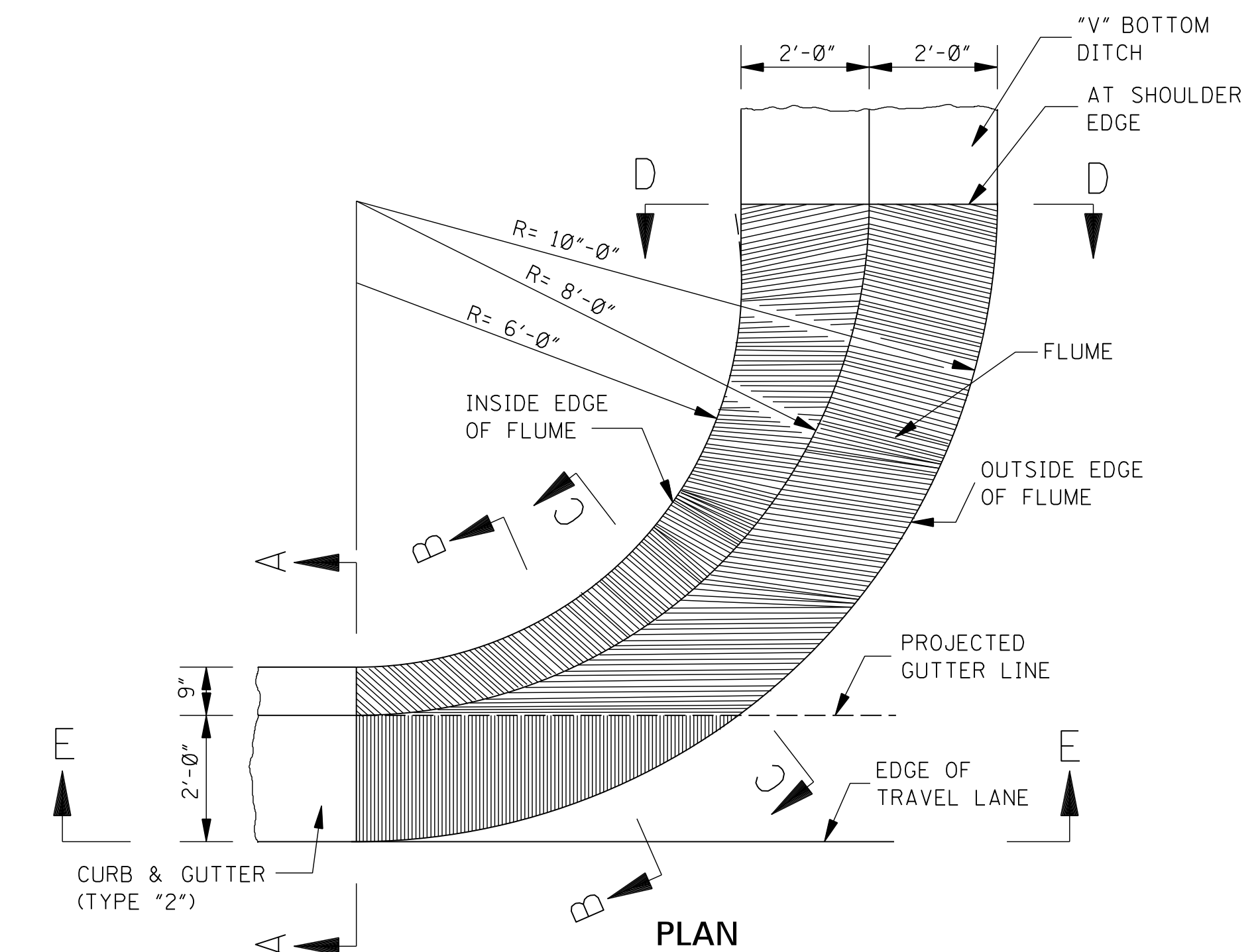
FLUME – TYPE “A”
(INTERMEDIATE RUNOFF THROUGH CURB & GUTTER)



FLUME – TYPE “B”
(AT END OF BRIDGE)

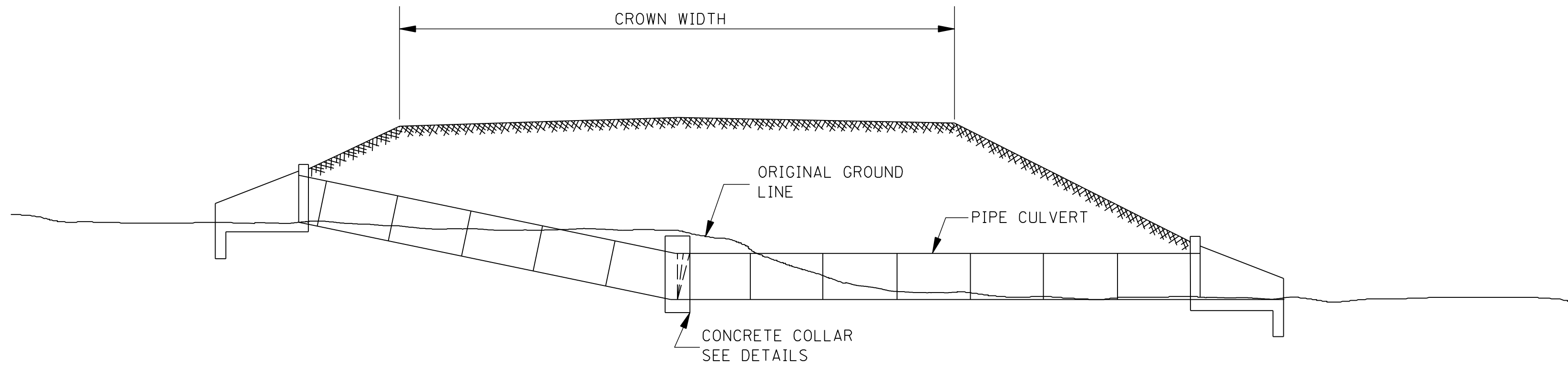


FLUME – TYPE “C”
(AT END OF CURB & GUTTER)

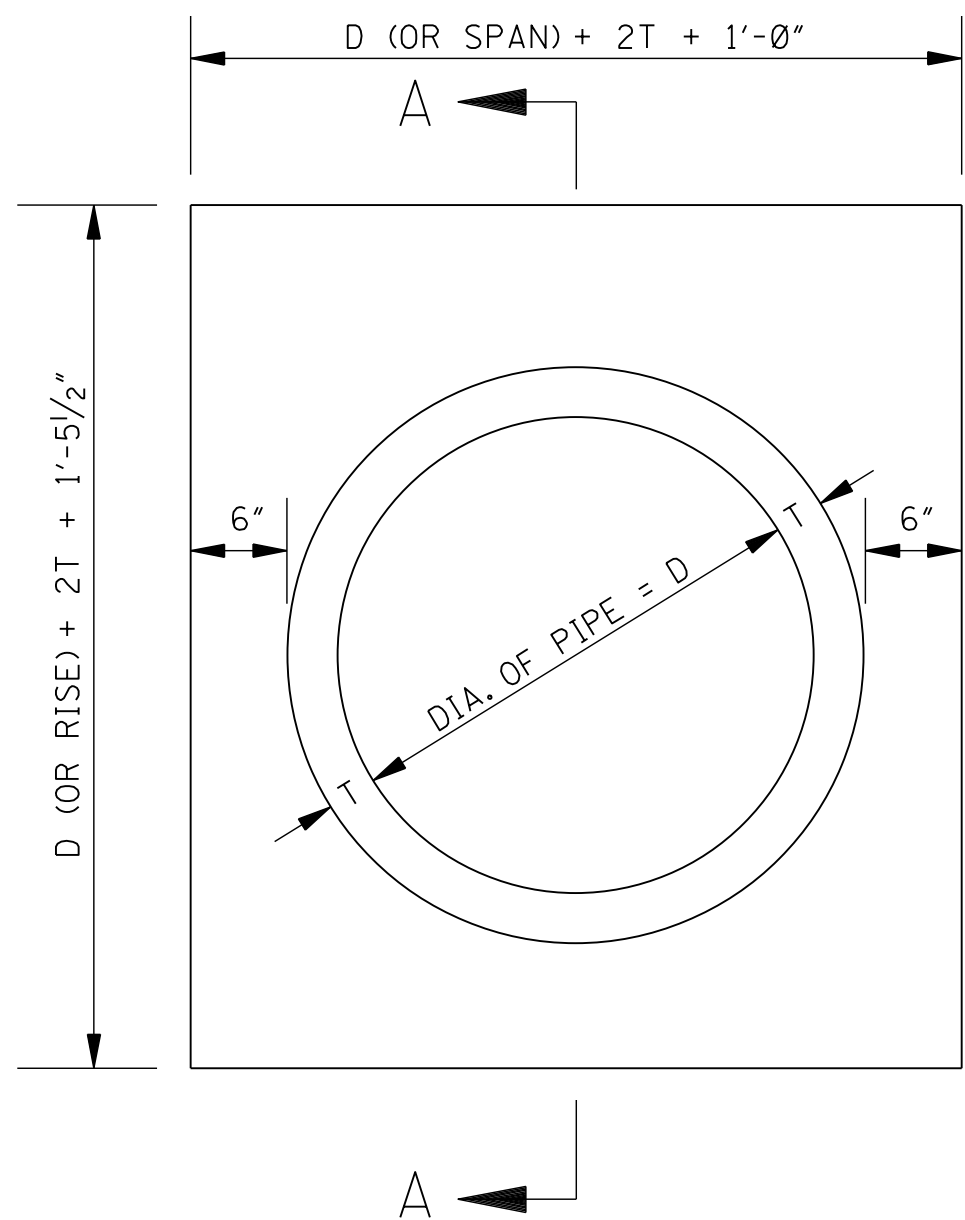


- NOTES:
- * 1. THIS DIMENSION IS 6" FOR 4:1 SLOPES AND 8" FOR 3:1 SLOPES (VARIABLE).
 - ** 2. CENTER ROW OF STAPLES MAY BE OMITTED ON DITCH LINER.

BY		MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
REVISION		DETAILS OF PAVED FLUMES	
DATE		ISSUE DATE: AUGUST 01, 2017	
		SHEET NUMBER 6426	

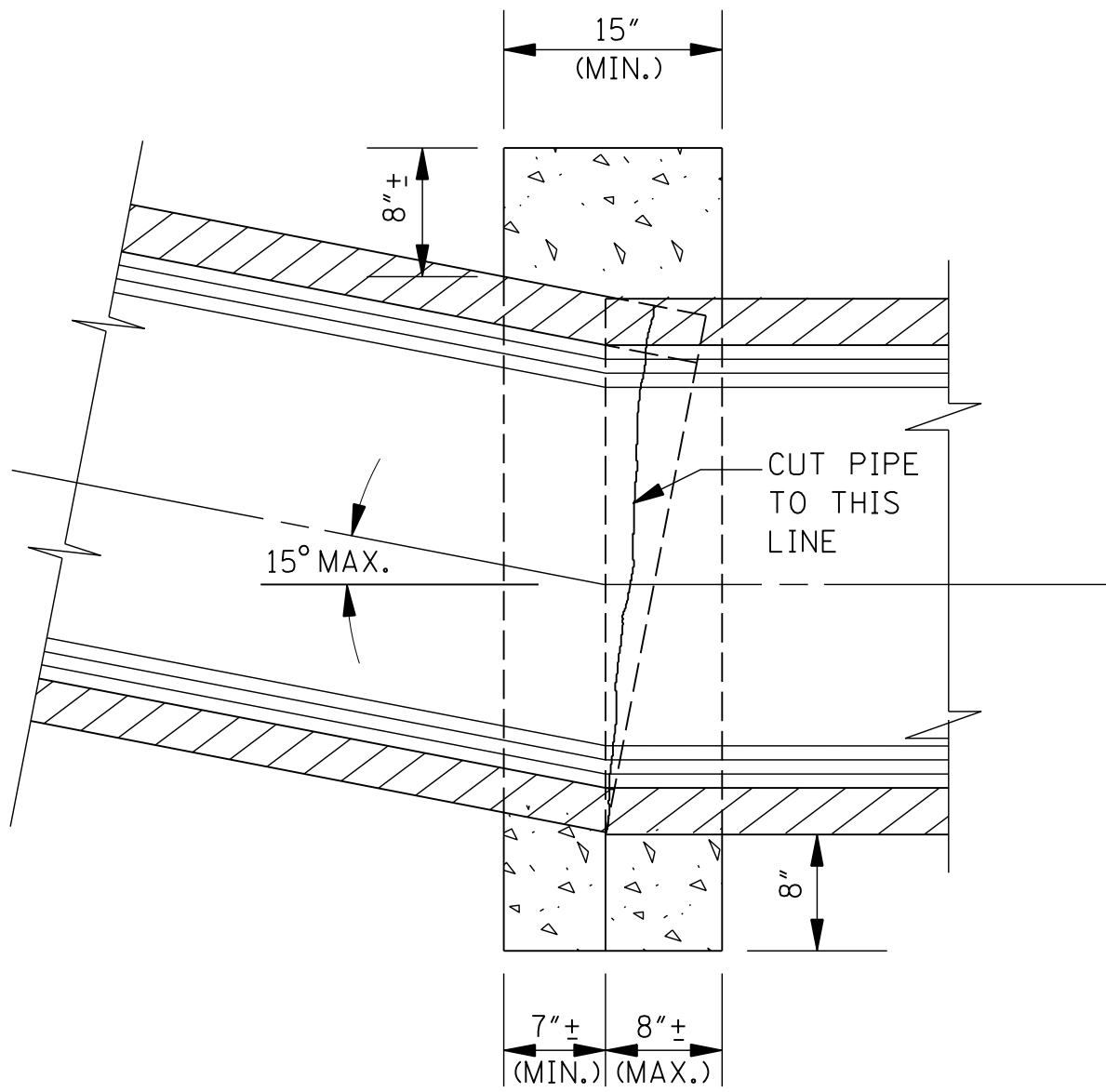


TYPICAL INSTALLATION FOR PIPE CULVERT WITH BROKEN FLOW LINE



ELEVATION OF CONCRETE COLLAR

NOTE: CIRCULAR PIPE IS SHOWN, ARCH PIPE IS SIMILAR.



SECTION A-A

GENERAL NOTES:

1. THE MAXIMUM BEND ANGLE IS 15 DEGREES.
2. THE FOLLOWING QUANTITIES SHALL BE THE BASIS FOR PAYMENT UNLESS AUTHORIZED MODIFICATIONS ARE MADE:

QUANTITIES FOR CONCRETE COLLAR FOR PIPE CULVERTS			
CIRCULAR PIPE		ARCH PIPE	
DIA. OF PIPE	CLASS "B" CONCRETE (yd ³)	SIZE OF PIPE	CLASS "B" CONCRETE (yd ³)
12"	0.240		
15"	0.260	18 × 11	0.280
18"	0.320	22 × 13	0.310
24"	0.410	29 × 18	0.410
30"	0.510	36 × 23	0.490
36"	0.620	44 × 27	0.600
42"	0.730	51 × 31	0.690
48"	0.850	58 × 36	0.820
54"	0.980	65 × 40	0.920
60"	1.110	73 × 45	1.070
66"	1.248	88 × 54	1.366
72"	1.393		

				BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN
				REVISION	
				DATE	
					ISSUE DATE: AUGUST 01, 2017

CONCRETE PIPE COLLAR

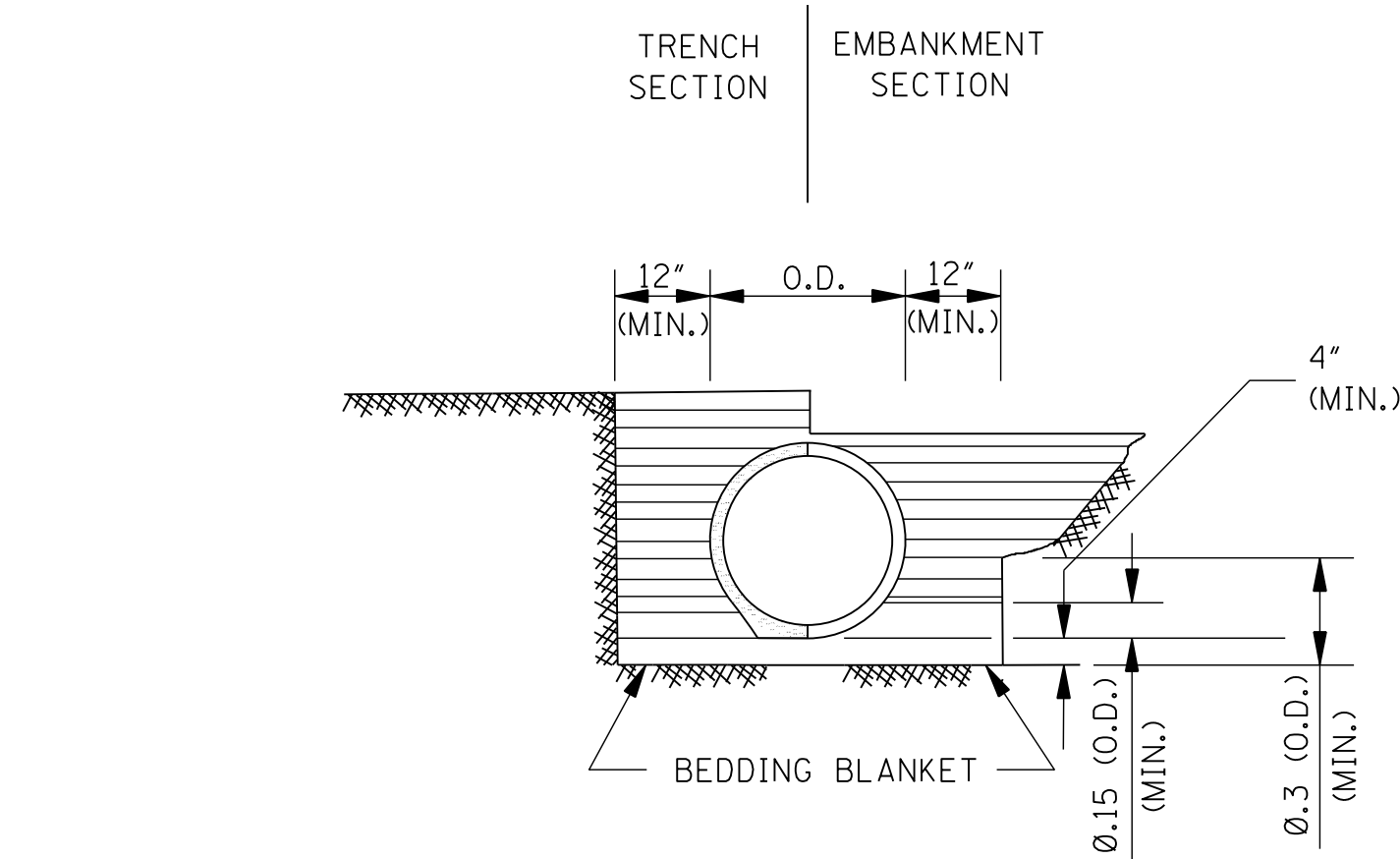


WORKING NUMBER
PC-1

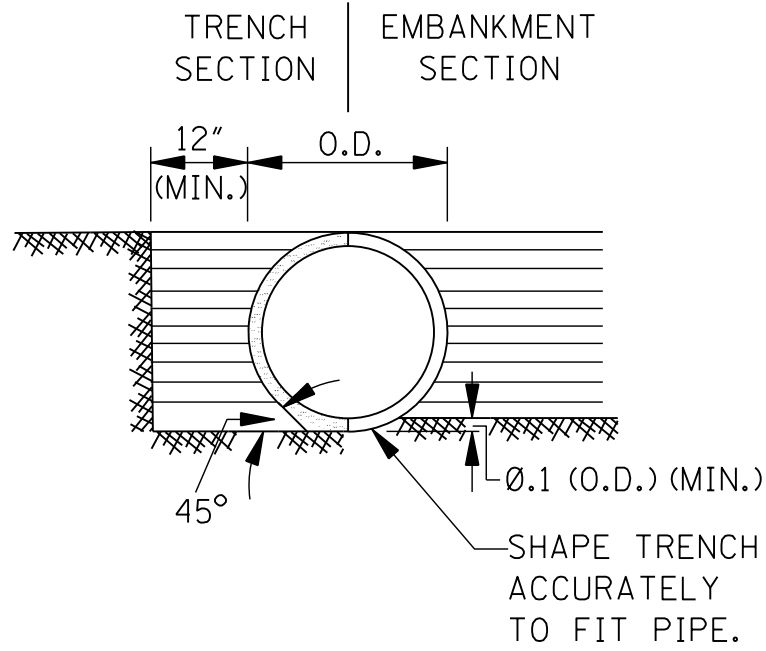
SHEET NUMBER
6503

CORRUGATED STEEL AND ALUMINUM PIPE (ROUND)						
PIPE DIAMETER (in)	MINIMUM COVER FROM TOP OF PIPE TO TOP OF SUBGRADE (in)	MAXIMUM FILL HEIGHT ABOVE TOP OF PIPE (ft†)				
		SHEET THICKNESS (in)				
		0.064 STEEL 0.060 ALUM. 16 GAGE	0.079 STEEL 0.075 ALUM. 14 GAGE	0.109 STEEL 0.105 ALUM. 12 GAGE	0.138 STEEL 0.135 ALUM. 10 GAGE	0.168 STEEL 0.164 ALUM. 8 GAGE
		2 2⁄3" X 1⁄2" CORRUGATED STEEL HELICAL	3" X 1" OR 5" X 1" CORRUGATED STEEL HELICAL	2 2⁄3" X 1⁄2" CORRUGATED ALUMINUM HELICAL		
12"	12"	207' / - / 125'	259' / - / 157'	- / - / -	- / - / -	- / - / -
15"	12"	165' / - / 100'	207' / - / 125'	- / - / -	- / - / -	- / - / -
18"	12"	138' / - / 83'	172' / - / 104'	242' / - / -	- / - / -	- / - / -
24"	12"	103' / - / 62'	129' / - / 78'	181' / - / 109'	- / - / -	- / - / -
30"	12"	82' / - / -	103' / - / 69'	145' / - / 97'	- / - / -	- / - / -
36"	12"	68' / - / -	86' / - / 62'	120' / - / 87'	155' / - / 94'	- / - / -
42"	12"	58' / - / -	73' / - / 51'	103' / - / 73'	133' / - / 80'	163' / - / -
48"	12"	51' / - / -	64' / - / -	90' / - / 62'	116' / - / 70'	142' / - / 85'
54"	12"	- / 46' / -	57' / 58' / -	80' / 82' / 54'	103' / 106' / 62'	126' / 129' / 76'
60"	12"	- / 42' / -	- / 52' / -	72' / 74' / 48'	93' / 95' / 52'	114' / 116' / 64'
66"	12"	- / 38' / -	- / 47' / -	- / 66' / -	84' / 86' / -	103' / 106' / 52'
72"	12"	- / 35' / -	- / 43' / -	- / 61' / -	77' / 79' / -	94' / 97' / 43'
78"	12"	- / 32' / -	- / 40' / -	- / 56' / -	- / 73' / -	84' / 89' / -
84"	12"	- / 29' / -	- / 37' / -	- / 52' / -	- / 68' / -	72' / 83' / -
90"	12"	- / 27' / -	- / 34' / -	- / 49' / -	- / 63' / -	- / 77' / -
96"	12"	- / - / -	- / 32' / -	- / 46' / -	- / 59' / -	- / 72' / -
102"	24"	- / - / -	- / 30' / -	- / 43' / -	- / 55' / -	- / 68' / -
108"	24"	- / - / -	- / - / -	- / 40' / -	- / 52' / -	- / 64' / -
114"	24"	- / - / -	- / - / -	- / 38' / -	- / 50' / -	- / 61' / -
120"	24"	- / - / -	- / - / -	- / 36' / -	- / 47' / -	- / 58' / -

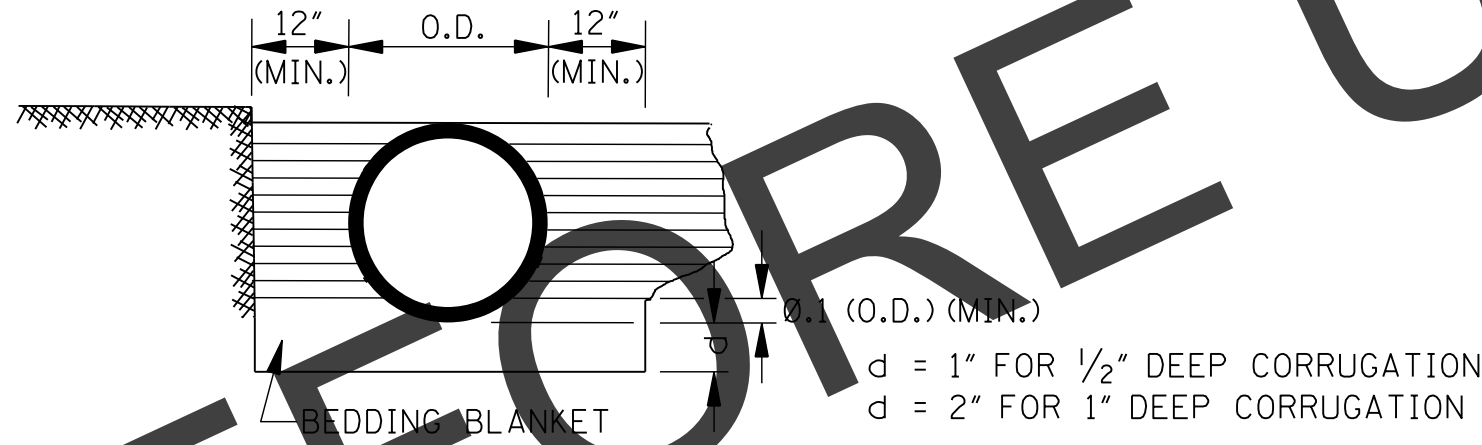
NOTE: THE AVERAGE INSIDE DIAMETER SHALL NOT VARY MORE THAN ONE (1) PERCENT OR 1⁄2", WHICHEVER IS GREATER, FROM THE NOMINAL DIAMETER WHEN MEASURED ON THE INSIDE CREST OF THE CORRUGATIONS (AASHTO M 36M/M 36 & AASHTO M 196M/M 196).



CLASS B



CLASS C



CLASS C MODIFIED

MAXIMUM HEIGHT OF FILL OVER REINFORCED CONCRETE PIPE		
CLASS OF PIPE	MAXIMUM COVER (ft†)	
	CLASS "C" BEDDING	CLASS "B" BEDDING
III	12'	19'
IV	18'	30'
V	28'	48'
SPECIAL DESIGN	>28'	>48'

NOTE: CLASS OF PIPE AND BEDDING TO BE CONSISTENT THROUGHOUT THE PIPE LENGTH.

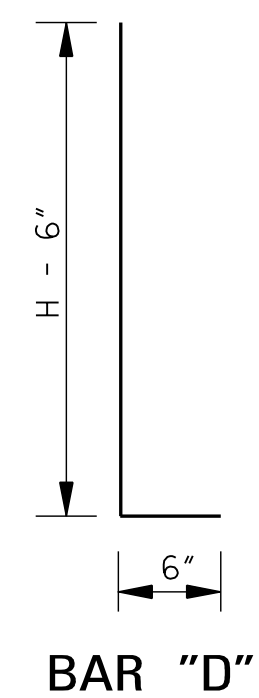
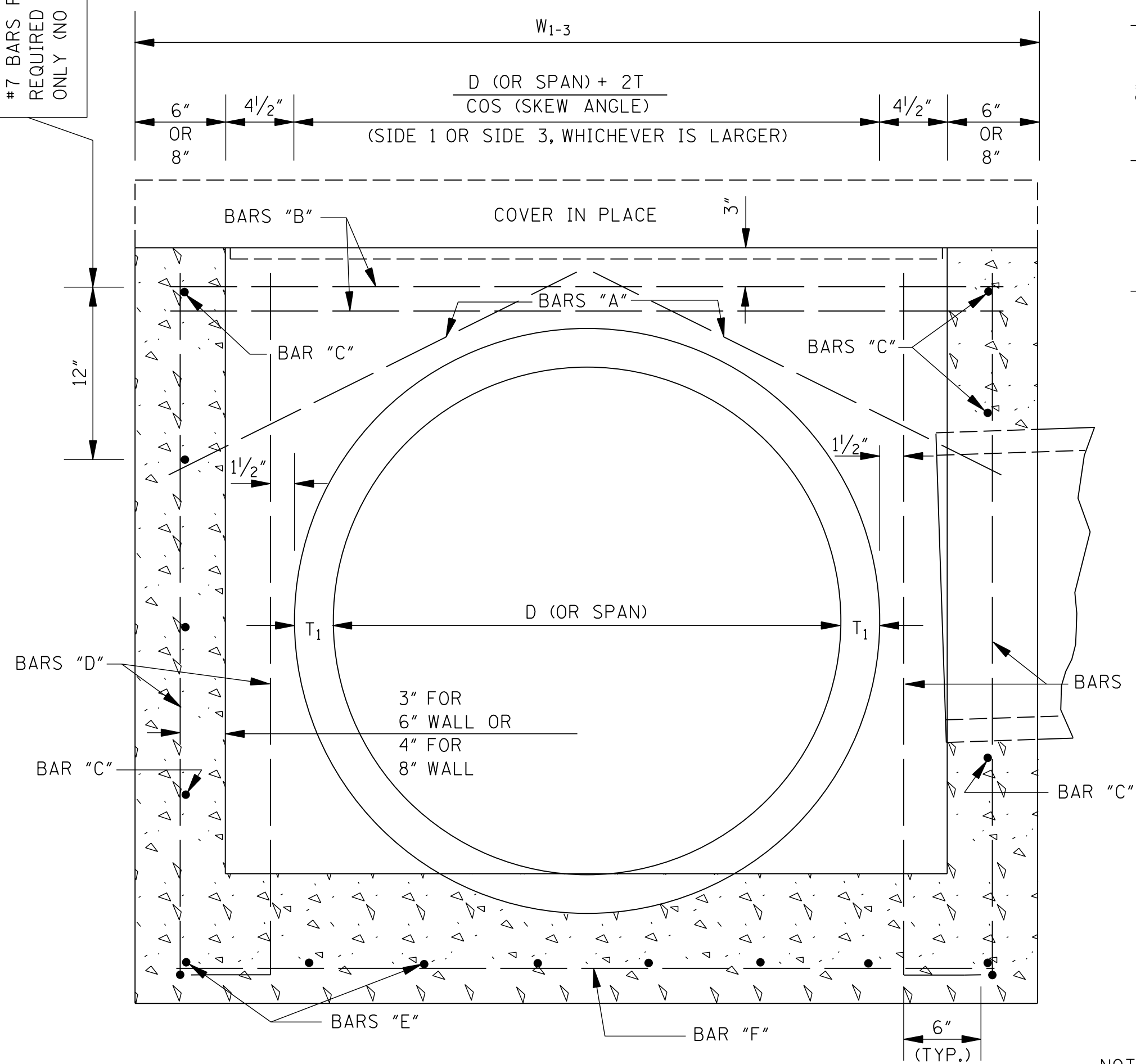
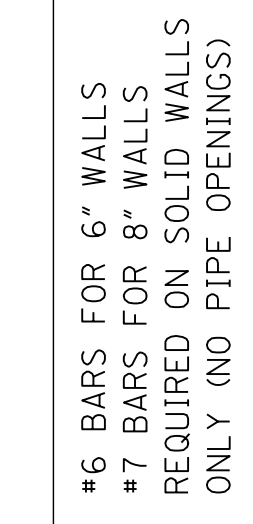
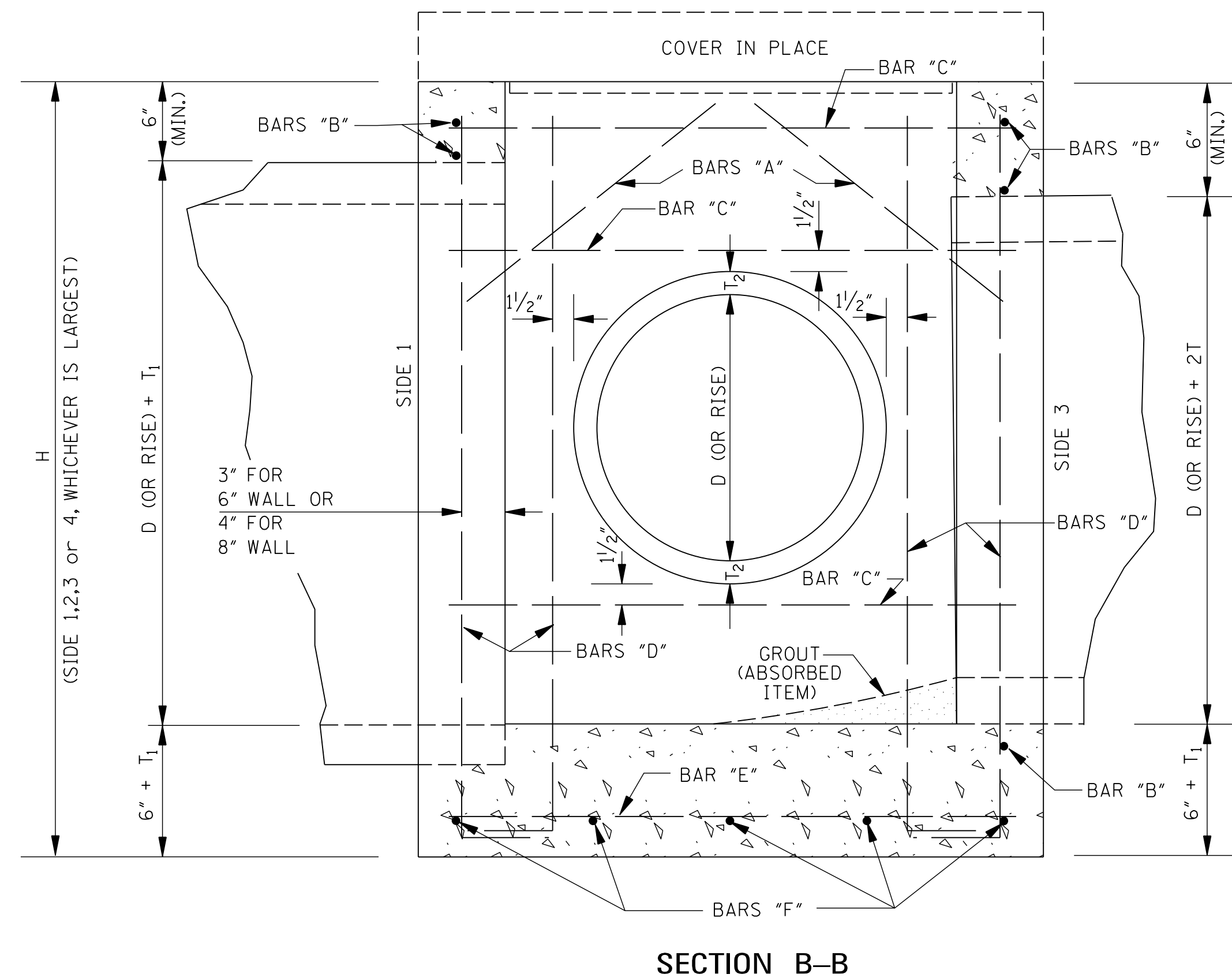
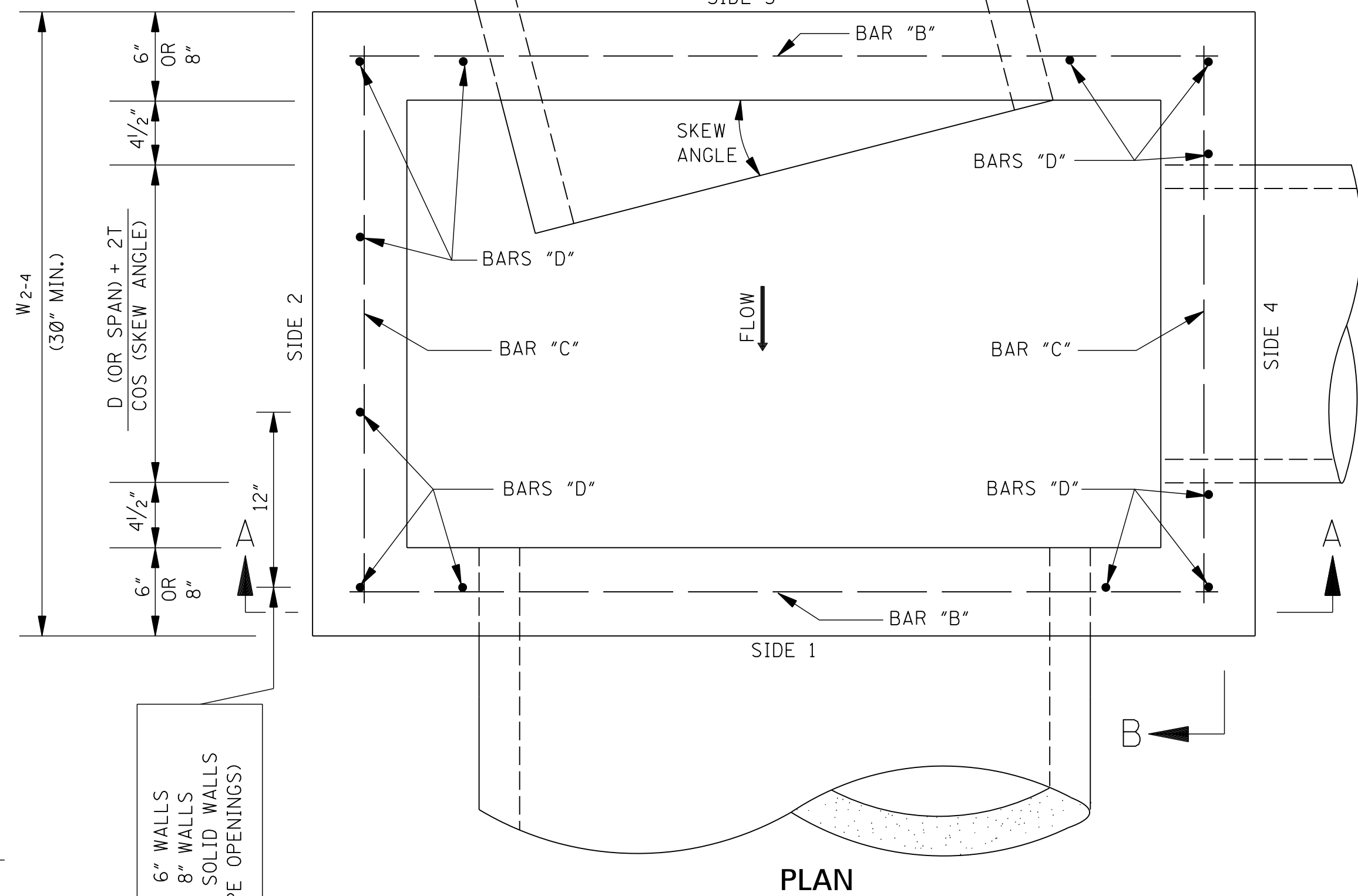
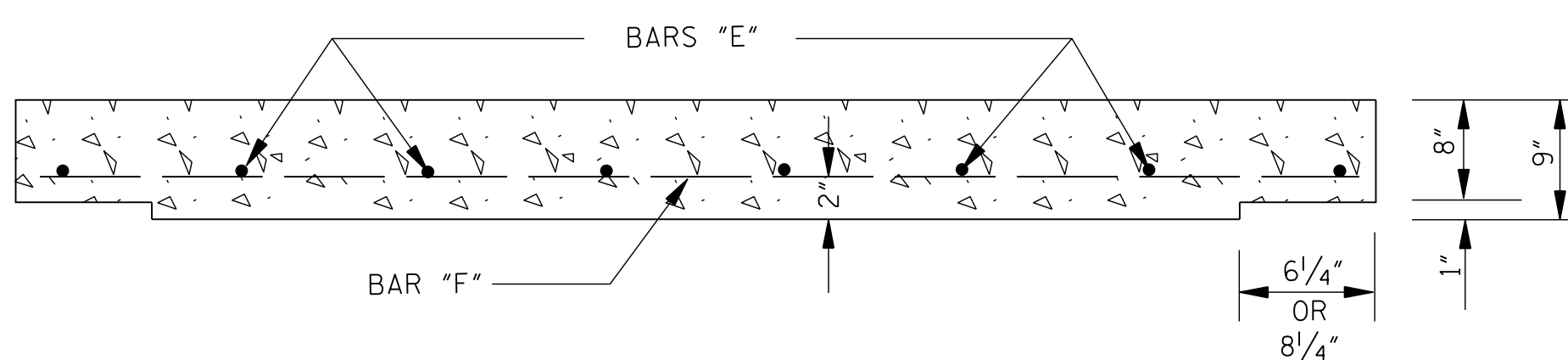
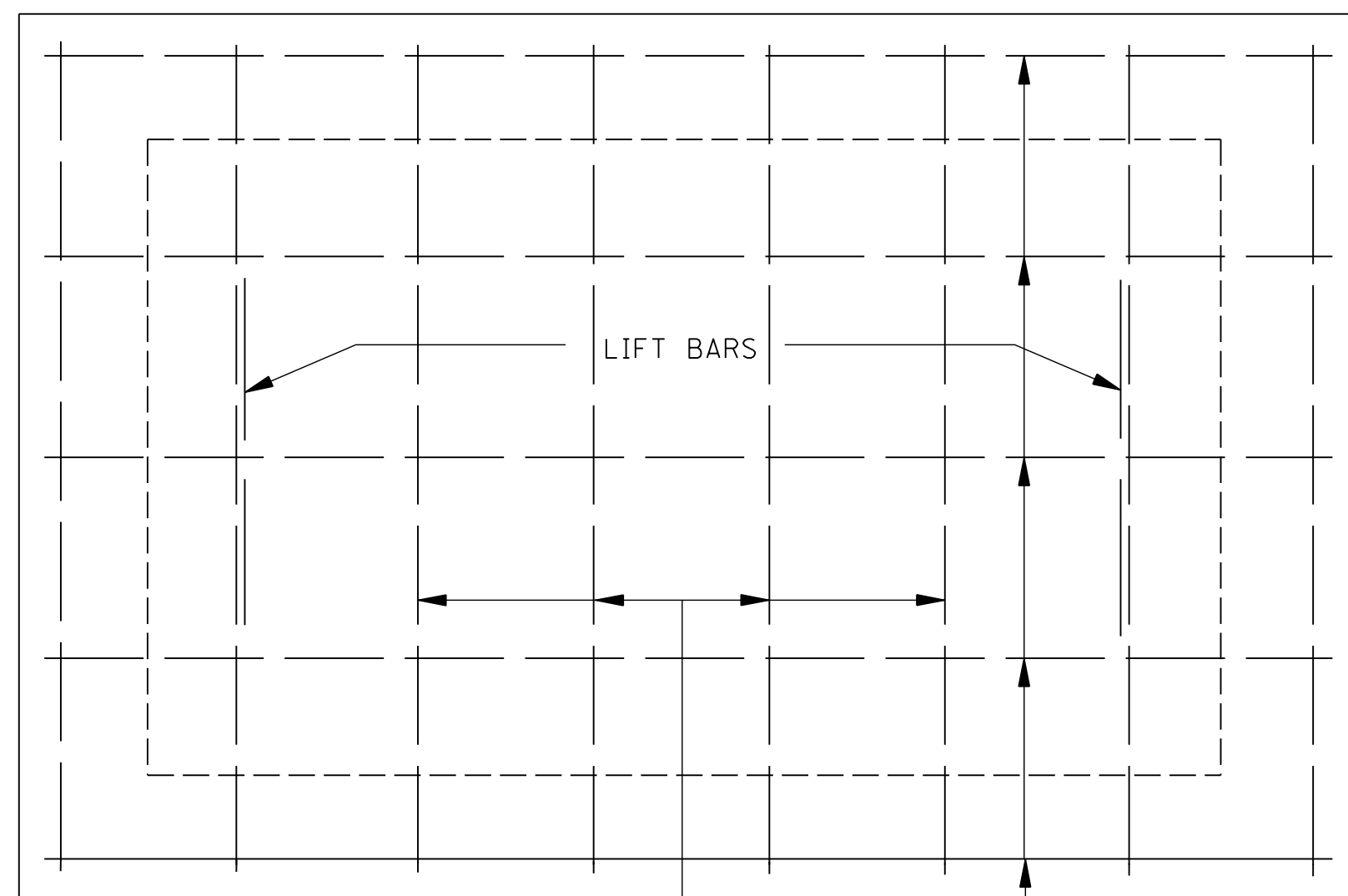
CORRUGATED METAL PIPE ARCHES						
EQUIV. DIAMETER (in)	PIPE DIMENSION (SPAN X RISE) (in)	MINIMUM COVER	STEEL		ALUMINUM	
			MINIMUM THICKNESS REQUIRED (in)	MAXIMUM FILL HEIGHT ABOVE TOP OF PIPE (ft) FOR THE FOLLOWING CORNER BEARING PRESSURE (tons/ft ²)	MINIMUM THICKNESS REQUIRED (in)	MAXIMUM FILL HEIGHT ABOVE TOP OF PIPE (ft) FOR THE FOLLOWING CORNER BEARING PRESSURE (tons/ft ²)
				† 4 tons/ft ²		† 4 tons/ft ²
			2 ² / ₃ " X 1/2" CORRUGATION HELICAL		2 ² / ₃ " X 1/2" CORRUGATION RIVETED OR HELICAL	
15"	17" X 13"	12"	0.064"	13'	0.060"	13'
18"	21" X 15"	12"	0.064"	12'	0.060"	12'
24"	28" X 20"	12"	0.064"	12'	0.075"	12'
30"	35" X 24"	12"	0.064"	12'	0.075"	12'
36"	42" X 29"	12"	0.064"	12'	0.105"	12'
42"	49" X 33"	12"	0.079"	12'	0.105"	12'
48"	57" X 38"	12"	0.109"	12'	0.135"	12'
54"	64" X 43"	12"	0.109"	12'	0.135"	12'
60"	71" X 47"	12"	0.138"	12'	0.164"	12'
66"	77" X 52"	12"	0.168"	12'		
72"	83" X 57"	12"	0.168"	12'		
			3" X 1" CORRUGATION HELICAL	5" X 1" CORRUGATION HELICAL		
48"	53" X 41"	12' / -	0.079"	12' / -		
54"	60" X 46"	15' / -	0.079"	20' / -		
60"	66" X 51"	15' / -	0.079"	20' / -		
66"	73" X 55"	18" / -	0.079"	20' / -		
72"	81" X 59"	18" / 18"	0.079" / 0.109"	17' / 17'		
78"	87" X 63"	18" / 18"	0.079" / 0.109"	16' / 16'		
84"	95" X 67"	18" / 18"	0.079" / 0.109"	16' / 16'		
90"	103" X 71"	18" / 18"	0.109" / 0.109"	16' / 16'		
96"	112" X 75"	21" / 21"	0.109" / 0.109"	16' / 16'		
102"	117" X 79"	21" / 21"	0.109" / 0.109"	16' / 16'		
108"	128" X 83"	24" / 24"	0.138" / 0.138"	16' / 16'		
114"	137" X 87"	24" / 24"	0.138" / 0.138"	16' / 16'		
120"	142" X 91"	27" / 27"	0.168" / 0.168"	16' / 16'		

NOTES:
1. THE AVERAGE INSIDE DIAMETER SHALL NOT VARY MORE THAN ONE (1) PERCENT OR 1⁄2", WHICHEVER IS GREATER, FROM THE NOMINAL DIAMETER WHEN MEASURED ON THE INSIDE CREST OF THE CORRUGATIONS. (AASHTO M 36M/M 36 & AASHTO M 196M/M 196).

† 2. BEARING PRESSURES FOR GIVEN FILL HEIGHT SHALL HAVE FOUNDATION MATERIALS INVESTIGATED TO DETERMINE BEARING CAPACITY.

- GENERAL NOTES:
1. MINIMUM SPACING BETWEEN MULTIPLE LINES OF PARALLEL PIPE SHALL BE THE DISTANCE REQUIRED FOR INSTALLING THE ADJACENT FLARED END SECTIONS OR AS SHOWN ON THE HEADWALL DRAWINGS FOR CONDUITS REQUIRING HEADWALLS.
 2. UNLESS OTHERWISE INDICATED, THE TOP OF THE PIPE SHALL BE BELOW THE TOP OF THE SUBGRADE, AND A MINIMUM OF 12" OF COVER OVER THE TOP OF THE PIPE SHALL BE MAINTAINED BETWEEN THE SHOULDER LINES.
 3. WHERE PRE-BED PIPE IS INSTALLED, FLARED END SECTIONS FROM OTHER MANUFACTURERS MAY BE JOINED TO PRE-BED PIPE PROVIDED A CONCRETE COLLAR IS PLACED AT THE CONTRACTOR'S EXPENSE AND A DEFORMATION TO THE PIPE'S FLOWLINE IS NOT EVIDENT ON FINAL PLACEMENT.
 4. THE BACKFILL SHALL BE EITHER CLASS "B", CLASS "C", OR CLASS "C" MODIFIED. A MINIMUM COMPACTION LEVEL OF 95% STANDARD PROCTOR DENSITY PER AASHTO T99 SHALL BE ACHIEVED BY USE OF VIBRATORY PLATE, HYDROHAMMER TYPE COMPACTORS SHALL NOT BE USED OVER THE PIPE. ALL COMPACTION EQUIPMENT USED SHALL BE APPROVED BY THE ENGINEER.

				BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
				REVISION	PIPE CULVERT INSTALLATION	
				DATE	ISSUE DATE: AUGUST 01, 2017	MDOT MISSISSIPPI DEPARTMENT OF TRANSPORTATION WORKING NUMBER PI-1 SHEET NUMBER 6501



REINFORCING BAR LIST			
BAR	SIZE	NUMBER REQUIRED	LENGTH
"A"	#4	2 PER PIPE OPENING	$\sqrt{196" + \left(\frac{W^*}{2} + 2" \right)^2}$
"B"	#6 FOR 6" WALL	2 + [2 PER OPENING SIDE 3] + [1 PER SIDE 1] + [12" O.C. FOR SOLID WALL]	$W_{1-3} - 4"$
"C"	#7 FOR 8" WALL	2 + [2 PER OPENING] + [12" O.C. FOR SOLID WALL]	$W_{2-4} - 4"$
"D"		4 + [2 PER OPENING] + [12" O.C. FOR SOLID WALL]	H
"E"	#6	$2 \left[\left(\frac{W_{1-3}}{6"} \right)^{*} + 1 \right]$	$W_{2-4} - 4"$
"F"	#6	$2 \left[\left(\frac{W_{2-4}}{6"} \right)^{*} + 1 \right]$	$W_{1-3} - 4"$

NOTE:	VARIABLES AND DESIGNATIONS ARE AS FOLLOWS:
D (OR SPAN)	= PIPE DIAMETER (OR SPAN)
W ₁₋₃	= WIDTH OF SIDE 1 & SIDE 3
W ₂₋₄	= WIDTH OF SIDE 2 & SIDE 4
W*	= W ₁₋₃ OR W ₂₋₄ (SIDE OF ENTERING PIPE)
**	= ROUND TO NEAREST WHOLE NUMBER

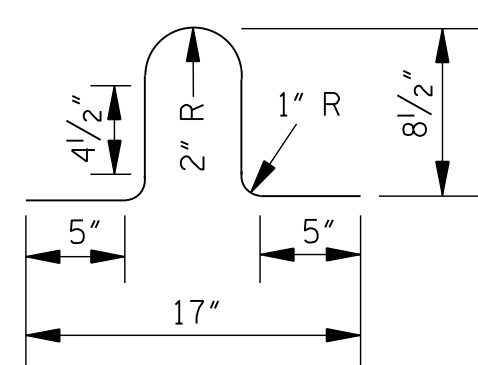
CL. "B" CONC. (yd³) = [(Q1 + Q2) / 46,656] - Σ PIPE OPENING DEDUCTIONS
 WHERE: 6" WALL
 Q1 = [8"(W1-3-W2-4) + [1"(W1-3 - 12.5")(W2-4 - 12.5") + [(T1 + 6") W1-2
 Q2 = 12"(H - (T1 + 6")) [(W1-3 - 12") + W2-4]
 OR: 8" WALL
 Q1 = [8"(W1-3-W2-4) + [1"(W1-3 - 16.5")(W2-4 - 16.5") + [(T1 + 6") W1-2
 Q2 = 16"(H - (T1 + 6")) [(W1-3 - 16") + W2-4]

COMMON PIPE SIZE							
CIRCULAR PIPE				ARCH PIPE			
PIPE SIZE	T	PIPE OPENING DEDUCTION (yd ³)		PIPE SIZE	T	PIPE OPENING DEDUCTION (yd ³)	
		6" WALL	+8" WALL			6" WALL	+8" WALL
18"	2½"	0.053	0.071	22" X 13"	2½"	0.053	0.071
24"	3"	0.091	0.121	29" X 18"	3"	0.087	0.116
30"	3½"	0.138	0.184	36" X 23"	3½"	0.129	0.172
36"	4"	0.196	0.261	44" X 27"	4"	0.185	0.247
42"	4½"	0.263	0.350	51" X 31"	4½"	-	0.327
48"	5"	-	0.453	58" X 36"	5"	-	0.424
54"	5½"	-	0.569	65" X 40"	5½"	-	0.525
60"	6"	-	0.699	73" X 45"	6"	-	0.652
66"	6½"	-	0.840				
72"	7"	-	0.996				

† NOTE: IF ANY PIPE REQUIRING A 8" WALL IS USED, ALL WALLS SHALL BE 8" REGARDLESS OF PIPE SIZE.

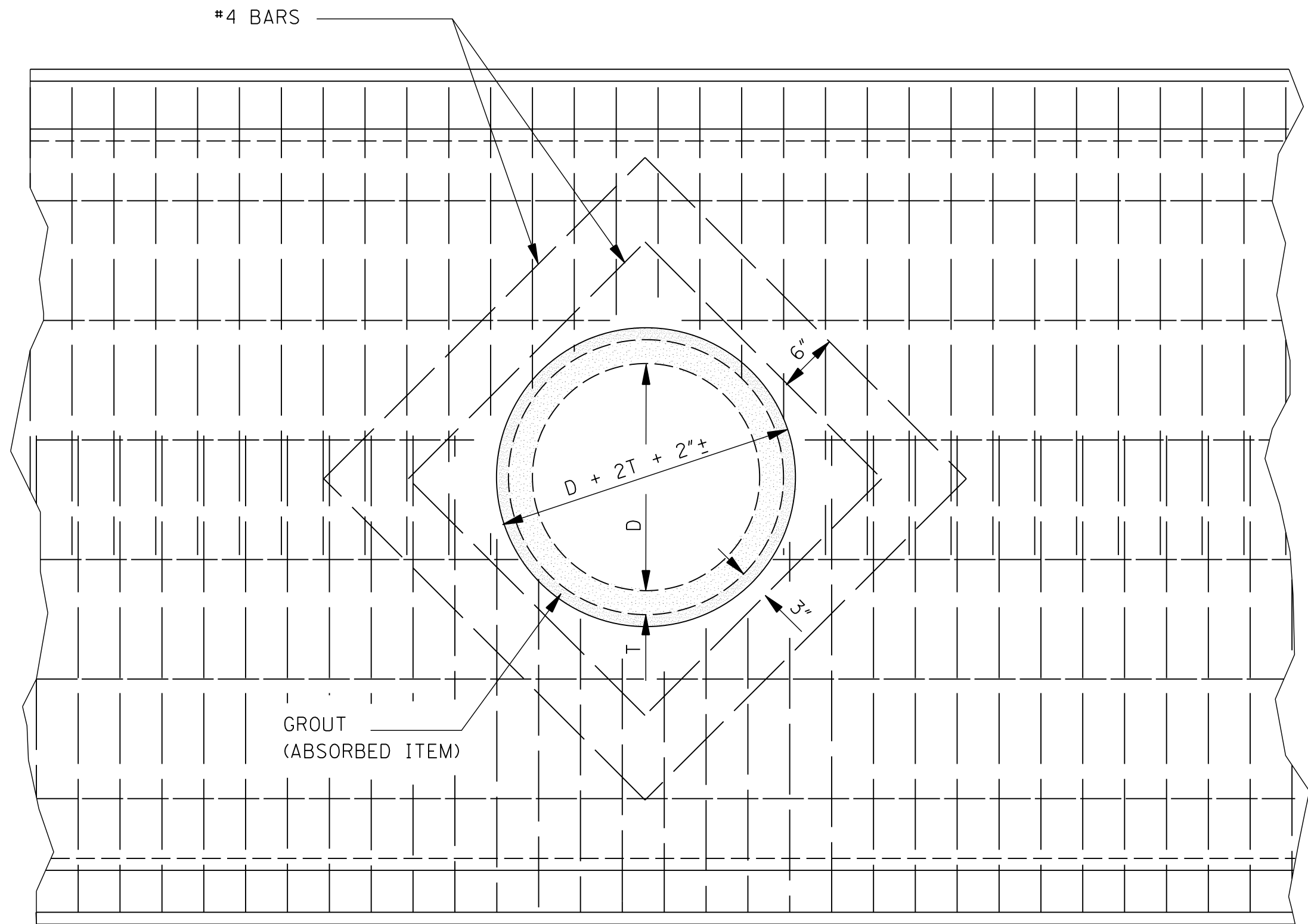
GENERAL NOTES:

1. REINFORCING STEEL QUANTITIES TO BE COMPUTED FROM BAR LIST AND SHOWN ELSEWHERE ON THE PLANS.
2. QUANTITIES FOR JUNCTION BOXES SHOWN ON THE PLANS WILL BE THE BASIS FOR PAYMENT UNLESS AUTHORIZED MODIFICATIONS ARE MADE.
3. CONCRETE SHALL BE CLASS "B" AND REINFORCING STEEL SHALL BE DEFORMED BARS, ASTM A 615, GRADE 60 OR AASHTO M 31, GRADE 60.
4. SIDE 1 OF THE JUNCTION BOX WILL ALWAYS BE THE OUTFLOW SIDE.
5. IF PIPES ARE SKEWED MORE THAN 15° OR IF SKEWED PIPES PRODUCE CONFLICTS WITH ANOTHER OPENING, THE PIPE SHALL BE BROKEN BACK TO THE WALL OF THE JUNCTION BOX.

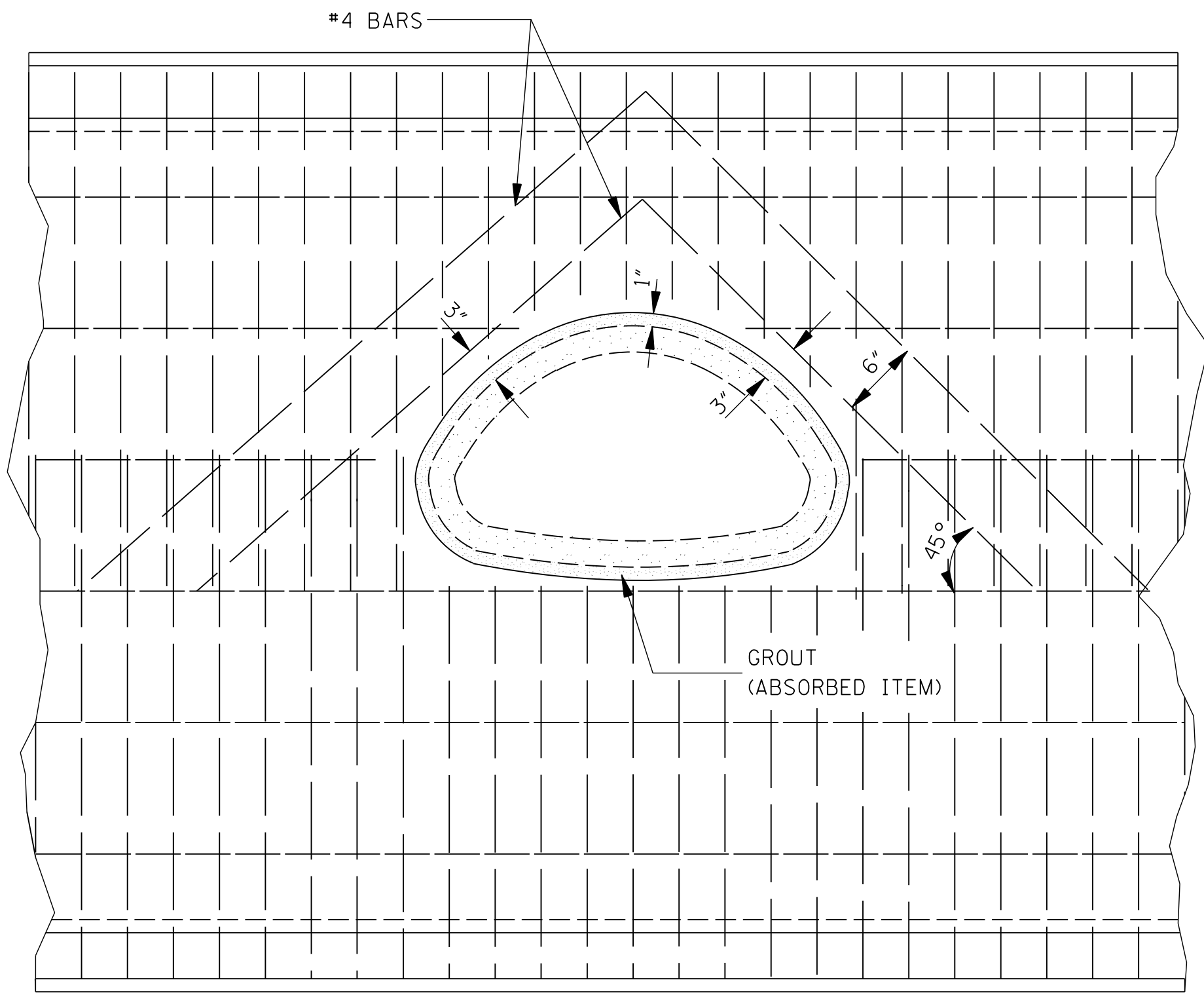


NOTE: LIFT BAR TO BE FABRICATED FROM A #4 BAR 30" LONG. TWO LIFT BARS ARE REQUIRED. REINFORCING STEEL FOR 2 LIFT BARS = 3.3 lbs.

				BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN
				REVISION	
					JUNCTION BOX TYPE 2 FOR TRAFFIC LOAD (MAXIMUM "W" = 9'-3")
					 WORKING NUMBER JB-2
					ISSUE DATE: AUGUST 01, 2017 SHEET NUMBER 6506



ELEVATION SHOWING CIRCULAR PIPE
STUBBED INTO BOX CULVERT BARREL OR WING-WALL



ELEVATION SHOWING ARCH PIPE STUBBED
INTO BOX CULVERT BARREL OR WING-WALL

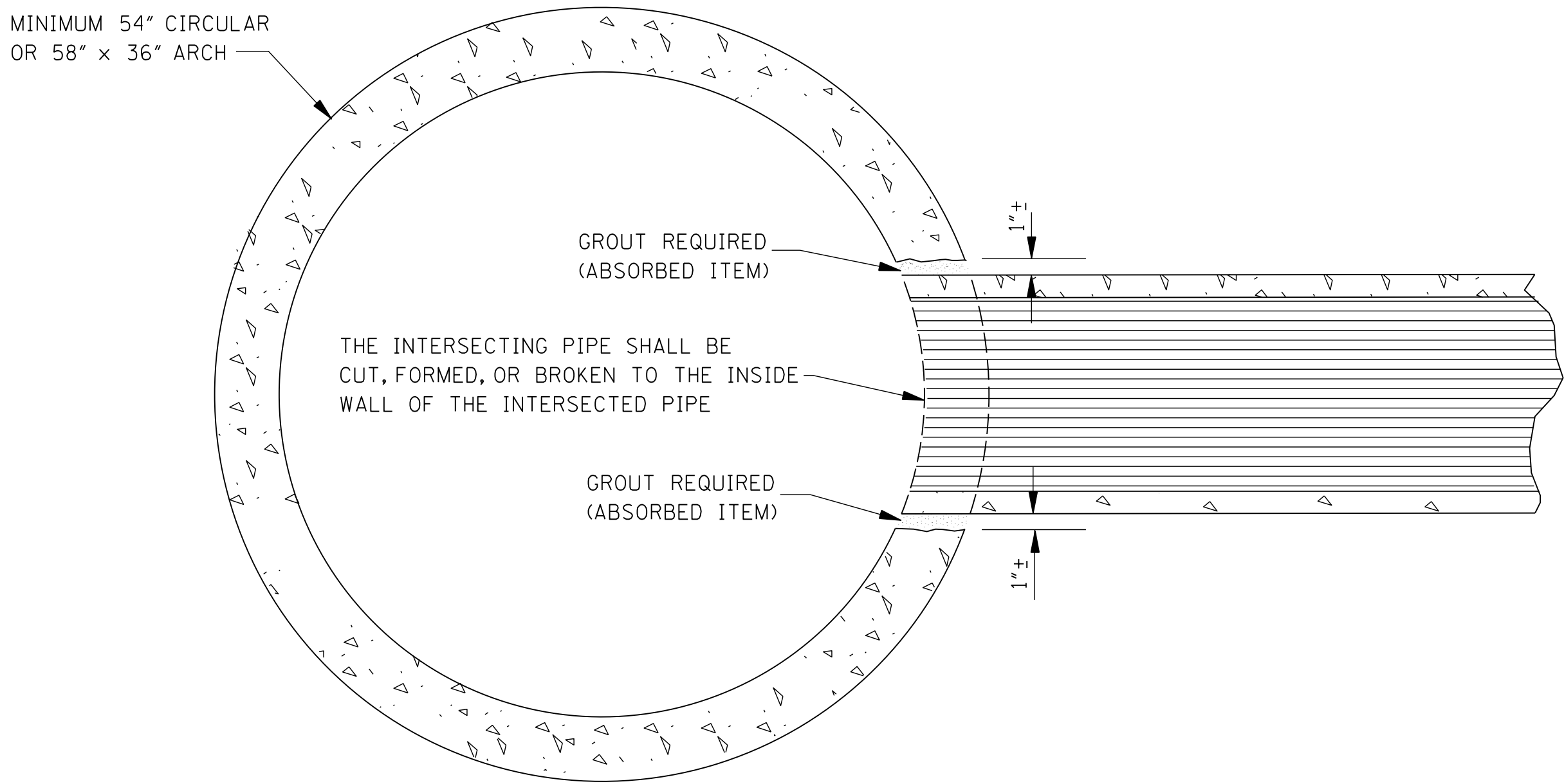
BAR LIST		
PIPE SIZE	#4 BARS NO.	LGTH.
18"	4	2'-6"
	4	3'-6"
24"	4	3'-1"
	4	4'-1"
30"	4	3'-8 1/2"
	4	4'-8 1/2"
22" X 13"	2	3'-10"
	2	4'-9"
	1	5'-4"
29" X 18"	2	4'-6"
	2	5'-5"
	1	6'-3"

NOTES:

1. A 24" DIAMETER PIPE IS THE MAXIMUM SIZE THAT MAY BE STUBBED INTO A 54" DIAMETER PIPE.
2. A 60" DIAMETER PIPE IS THE MINIMUM SIZE THAT A 30" DIAMETER PIPE MAY BE STUBBED INTO.

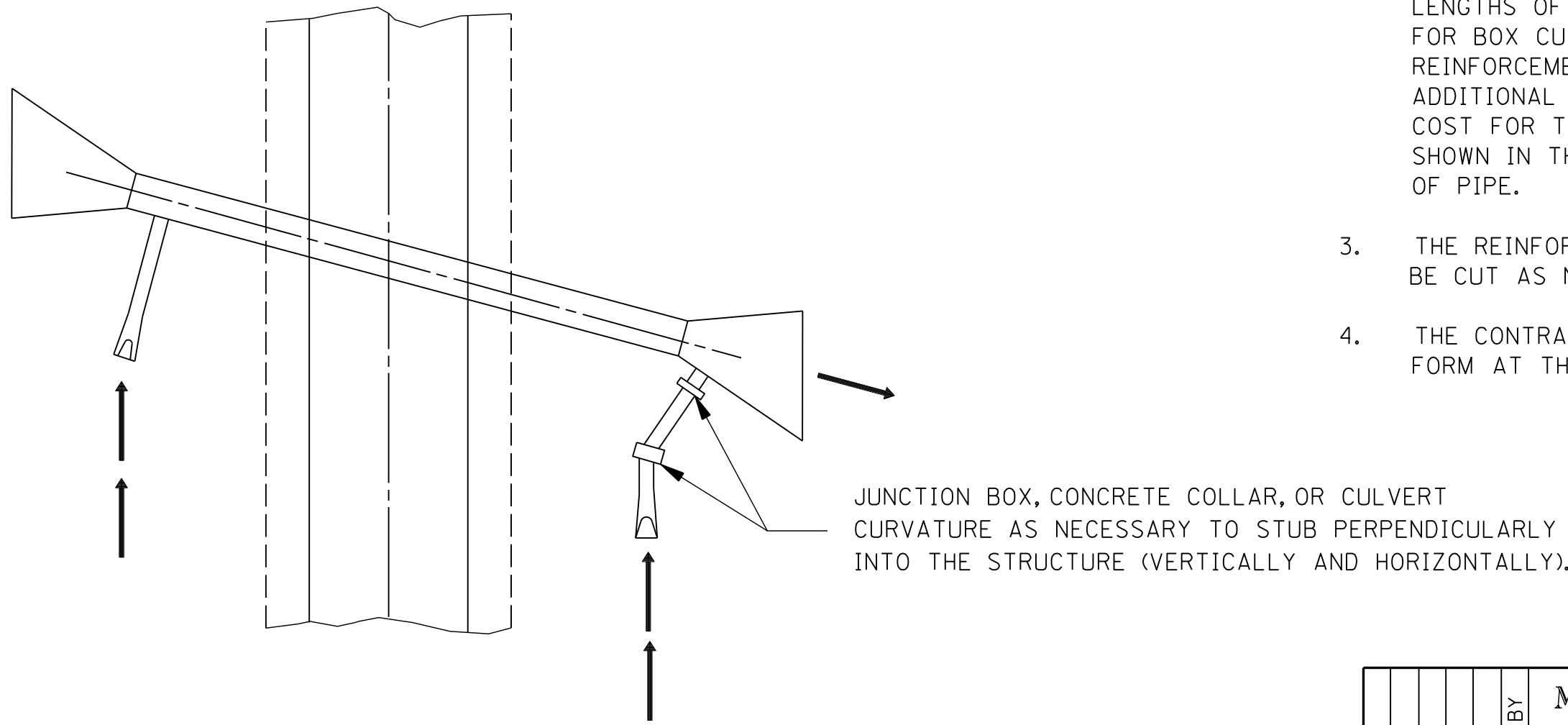
GENERAL NOTES:

1. PAYMENT FOR WORK AND MATERIALS FOR STUBBING A PIPE CULVERT INTO A BOX CULVERT OR CONCRETE PIPE SHALL BE PAID FOR AS A BRANCH CONNECTION OF THE APPROPRIATE SIZE, TYPE AND DESCRIPTION.
2. THE TABLE ON THIS SHEET INDICATES THE NUMBER AND LENGTHS OF ADDITIONAL REINFORCING STEEL BARS REQUIRED FOR BOX CULVERTS CONSTRUCTED. FOR A DOUBLE ROW OF REINFORCEMENT, DOUBLE THE NUMBER OF BARS SHOWN. THE ADDITIONAL REINFORCING STEEL SHALL BE INCLUDED IN THE COST FOR THIS TYPE OF BRANCH CONNECTION. THE QUANTITIES SHOWN IN THE TABLE ARE FOR THE MOST COMMON SIZES OF PIPE.
3. THE REINFORCEMENT OF THE INTERSECTED BOX OR PIPE SHALL BE CUT AS NECESSARY TO ACCOMMODATE THE STUBBED PIPE.
4. THE CONTRACTOR MAY INSERT THE INTERSECTING PIPE INTO THE FORM AT THE PROPER LOCATION IN LIEU OF FORMING BY BLOCKING OUT.



ELEVATION SHOWING PIPE CULVERT
STUBBED INTO CONCRETE PIPE CULVERT

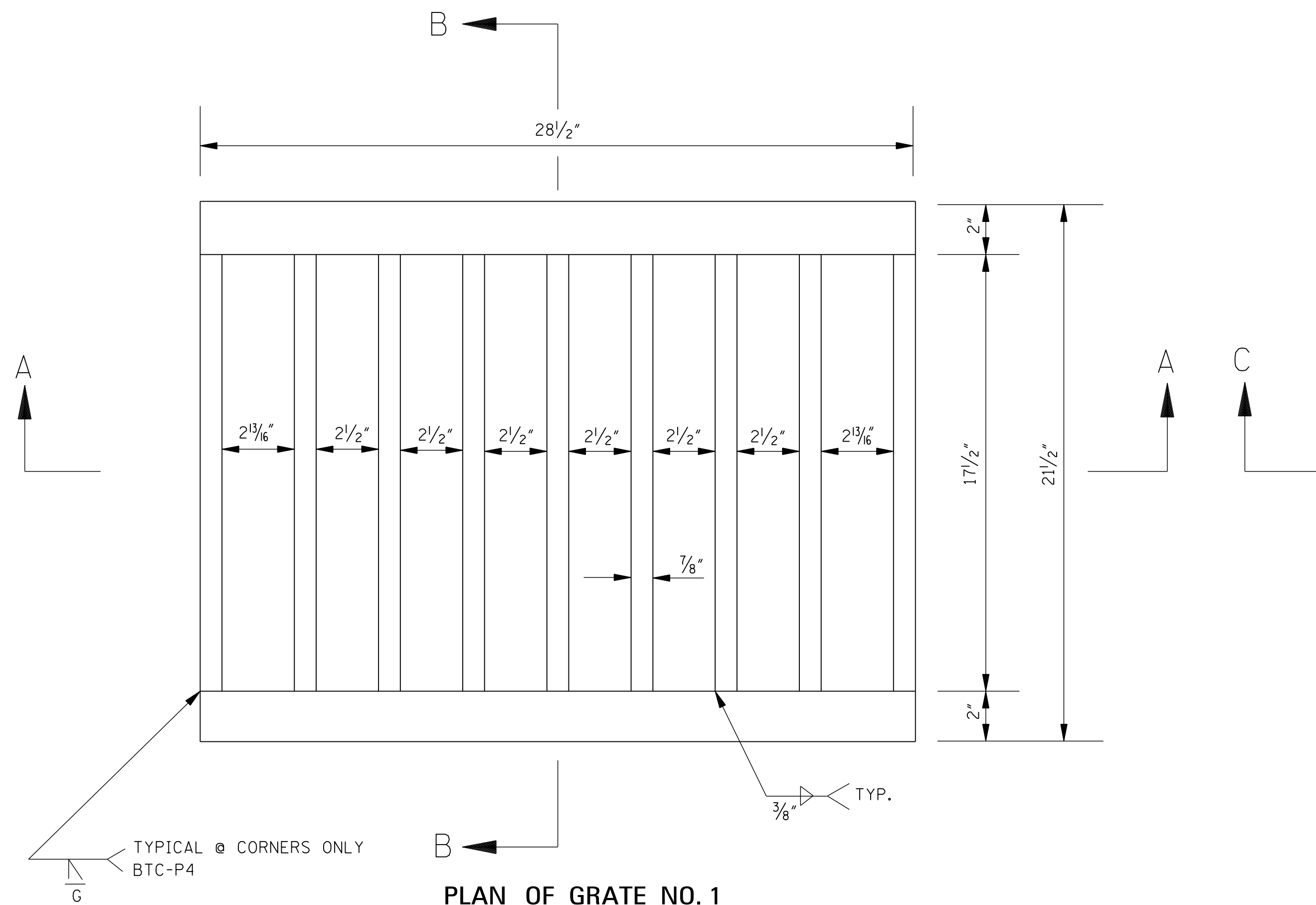
NOTE: TYPICAL INSTALLATION FOR MEDIAN STUB TO
CROSSING DRAIN WITH MINIMUM COVER.



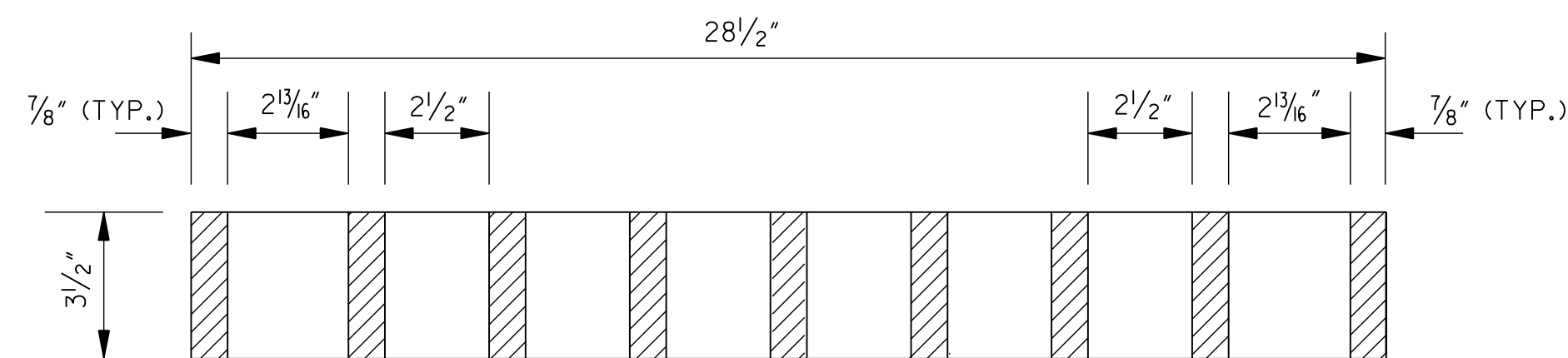
TYPICAL PLAN OF BRANCH CONNECTION
TO BOX CULVERT WING-WALL

				BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN
				REVISION	BRANCH CONNECTIONS
				DATE	ISSUE DATE: AUGUST 01, 2017
					 WORKING NUMBER BC-1 SHEET NUMBER 6507

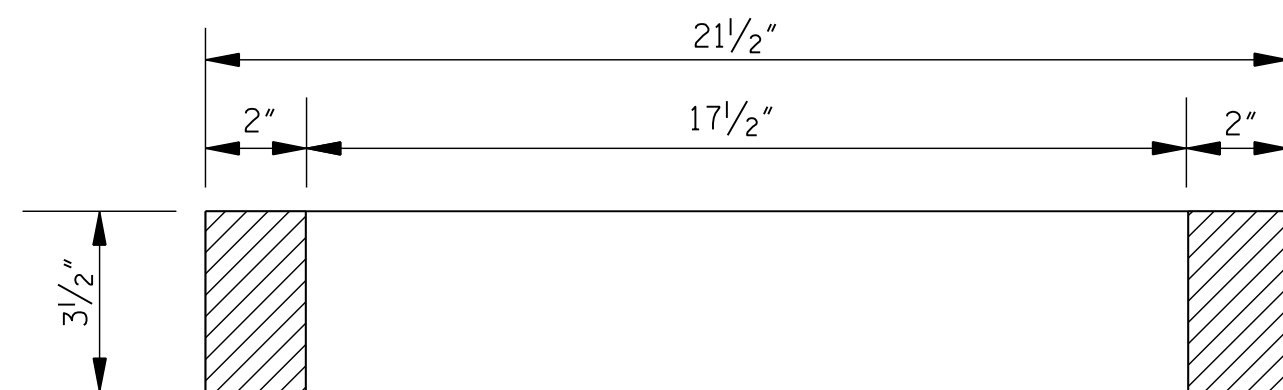
GRATE NO. 1



PLAN OF GRATE NO. 1

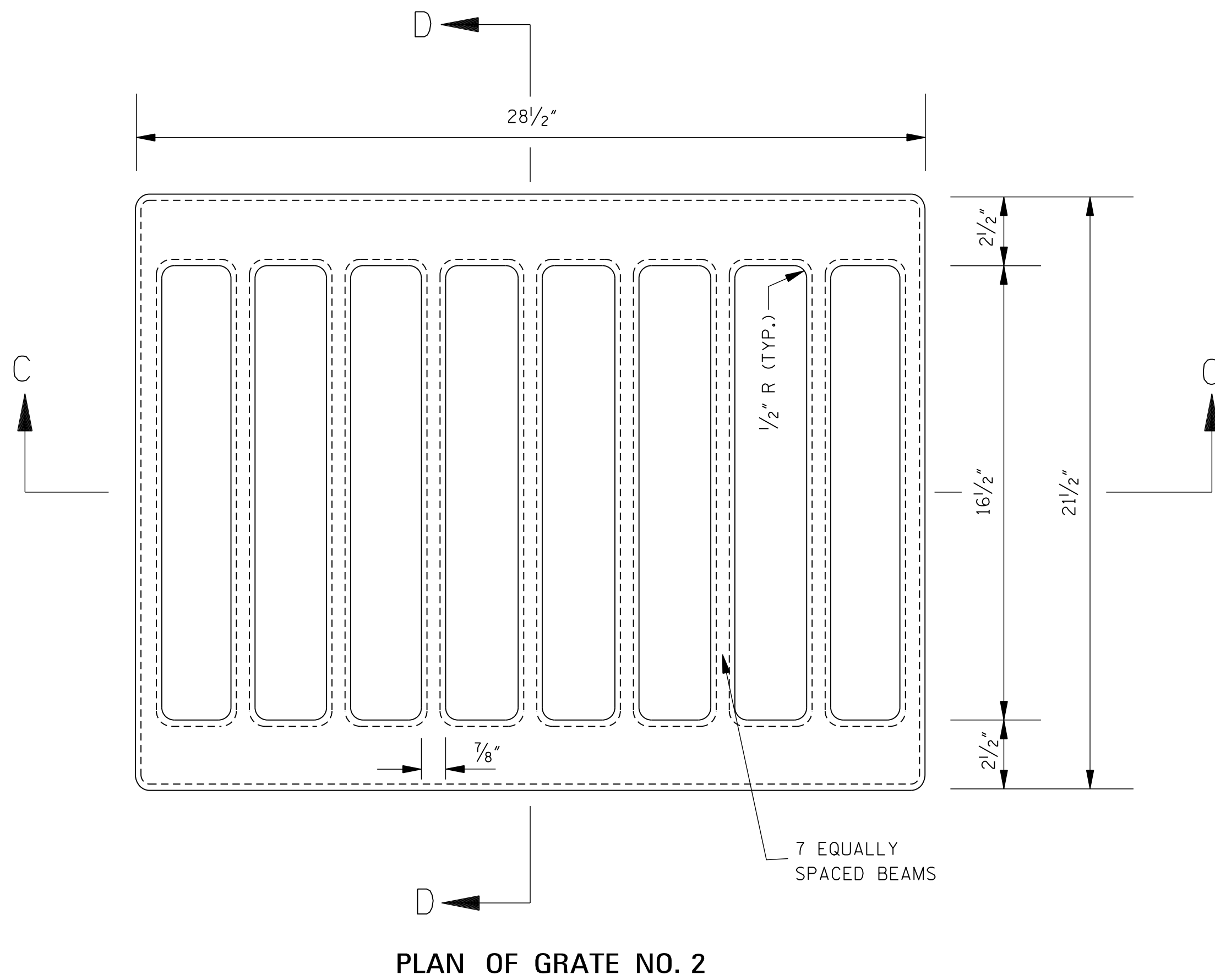


SECTION A-A

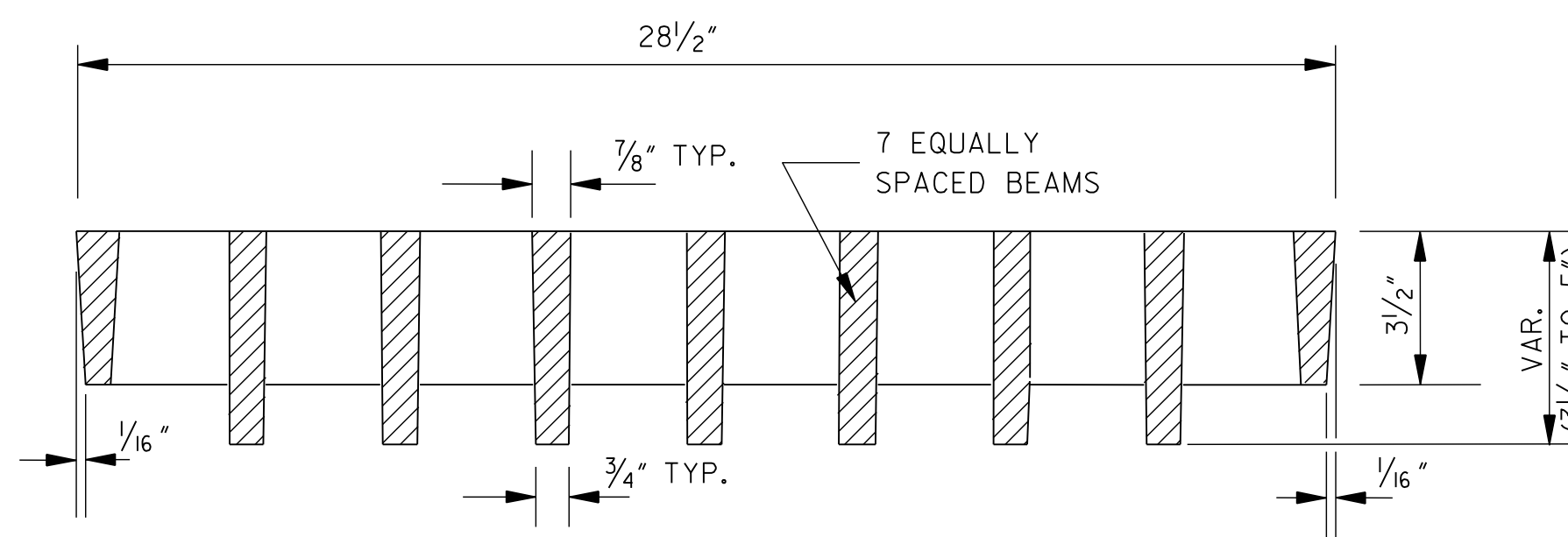


SECTION B-B

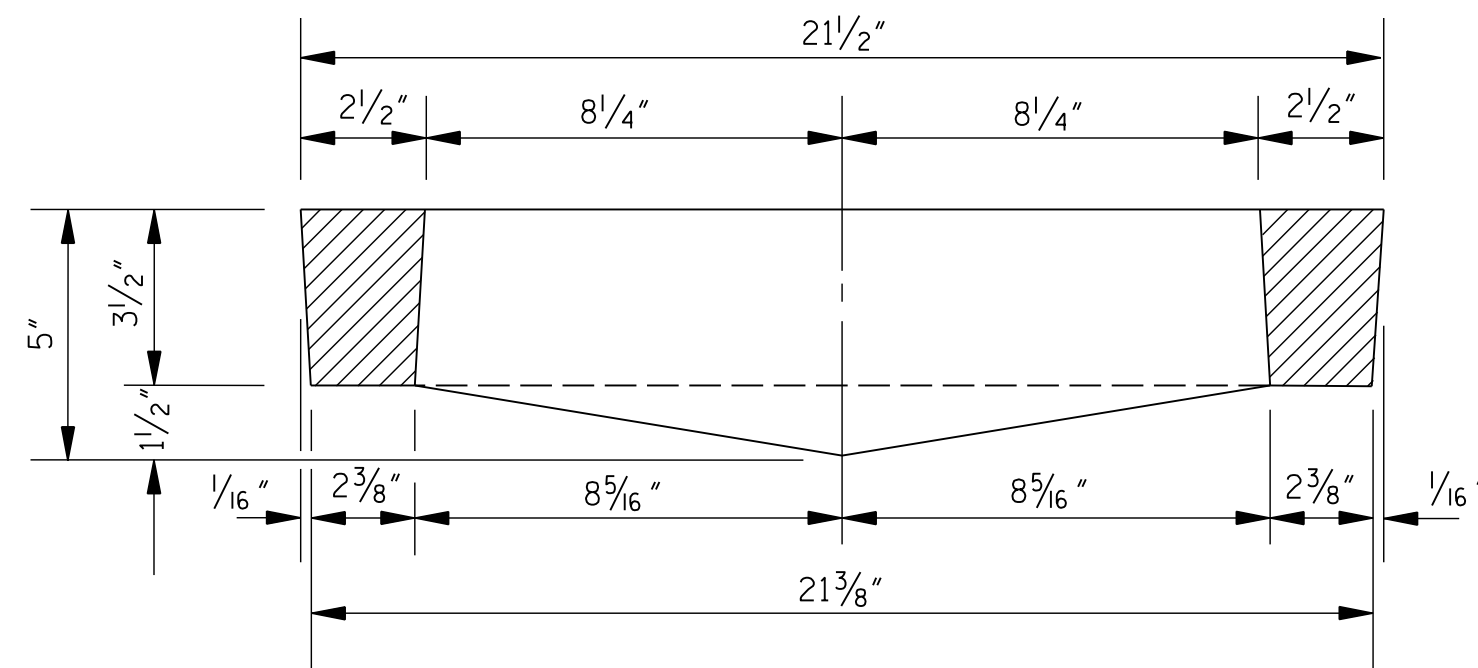
GRATE NO. 2



PLAN OF GRATE NO. 2



SECTION C-C

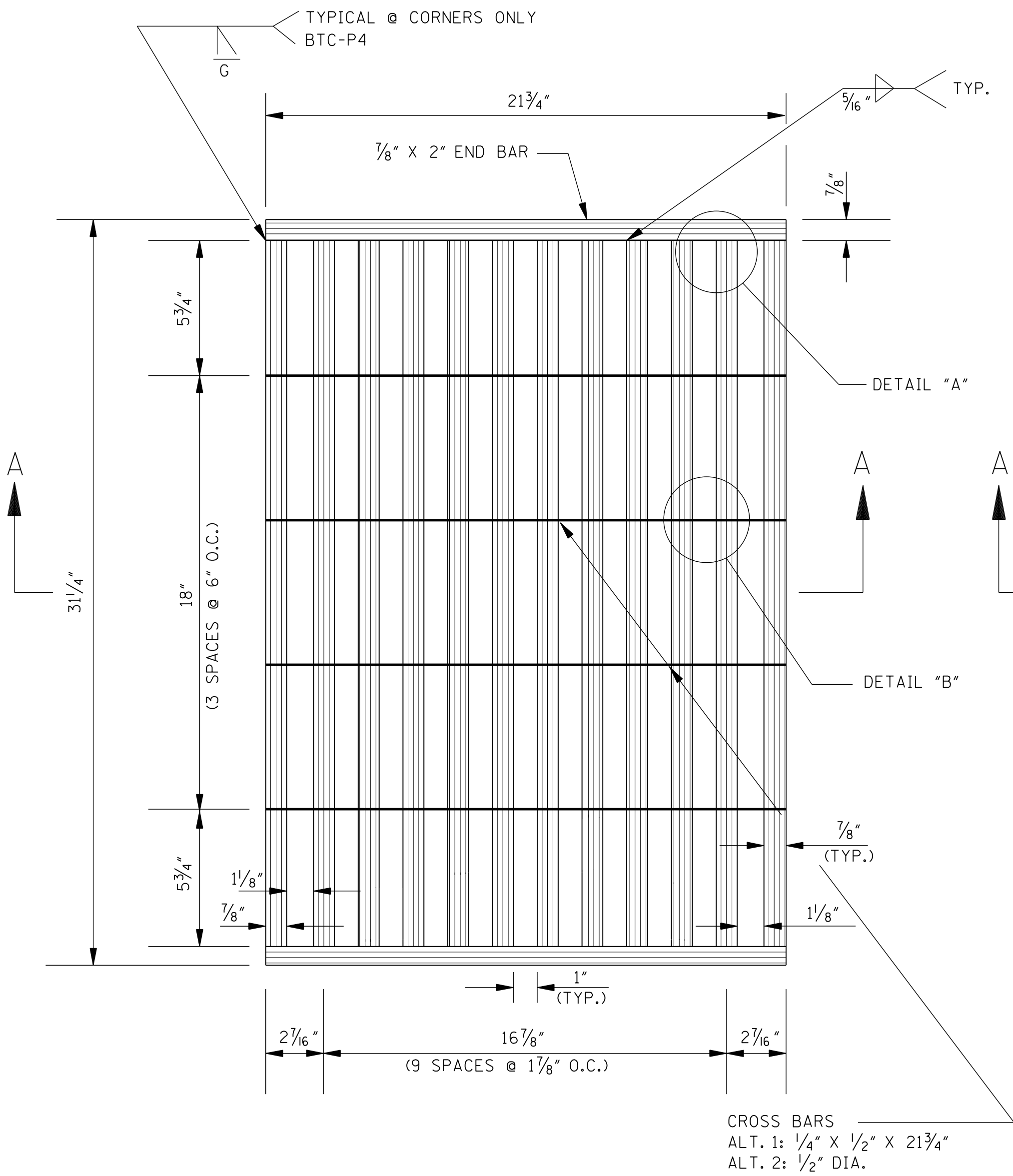


SECTION D-D

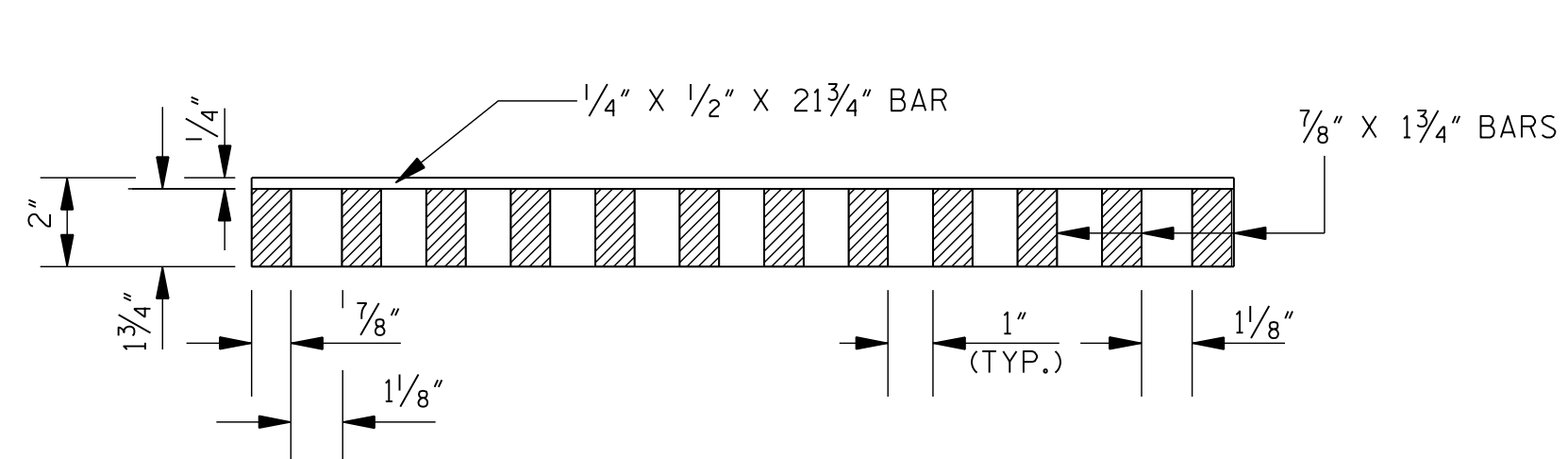
- GENERAL NOTES:
1. BASIS OF PAYMENT WILL BE 250 lbs OF GRATING FOR EITHER GRATE.
 2. GRATE NO.1
THE GRATE SHALL BE WELDED STEEL (ASTM A 588).
 3. GRATE NO.2
THE GRATE SHALL BE DUCTILE IRON (ASTM A 536, GRADE 80-55-06).

				BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN
				REVISION	DETAILS OF GRATES FOR MEDIAN INLETS
				DATE	ISSUE DATE: AUGUST 01, 2017
					WORKING NUMBER IG-1
					SHEET NUMBER 6516

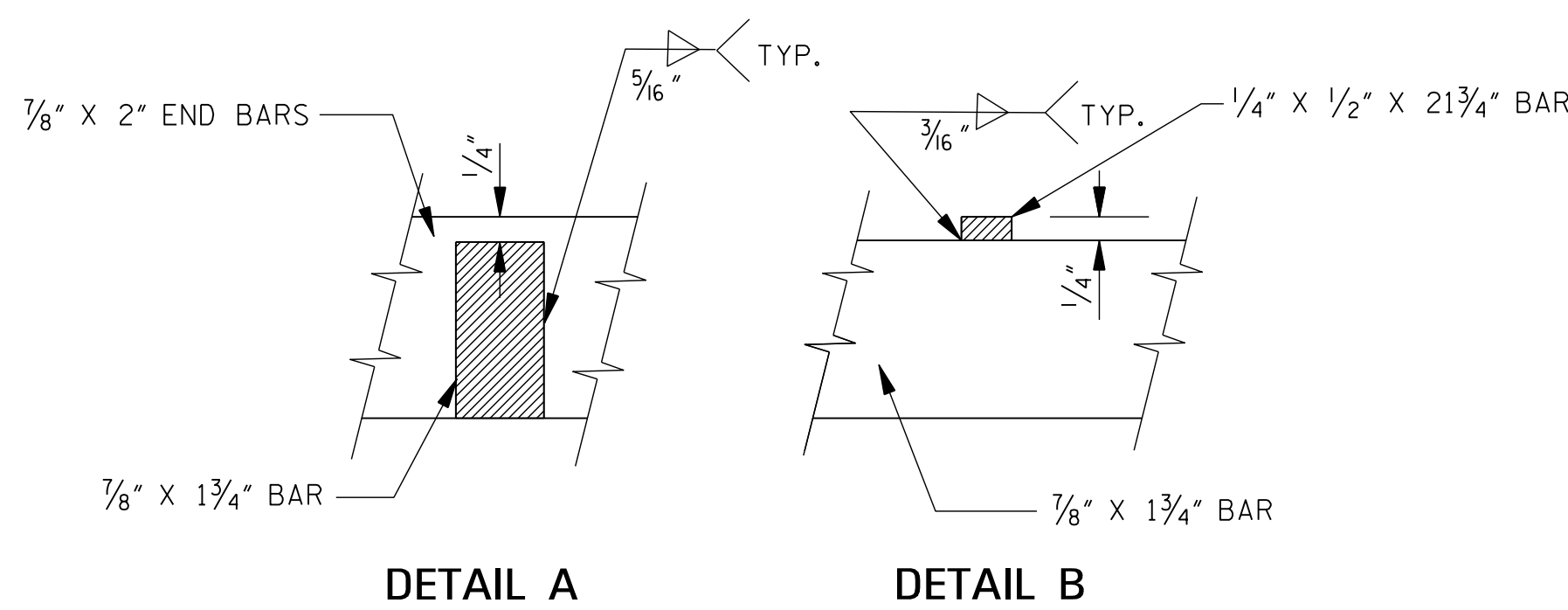
GRATE NO. 1 – ALTERNATE #1



PLAN

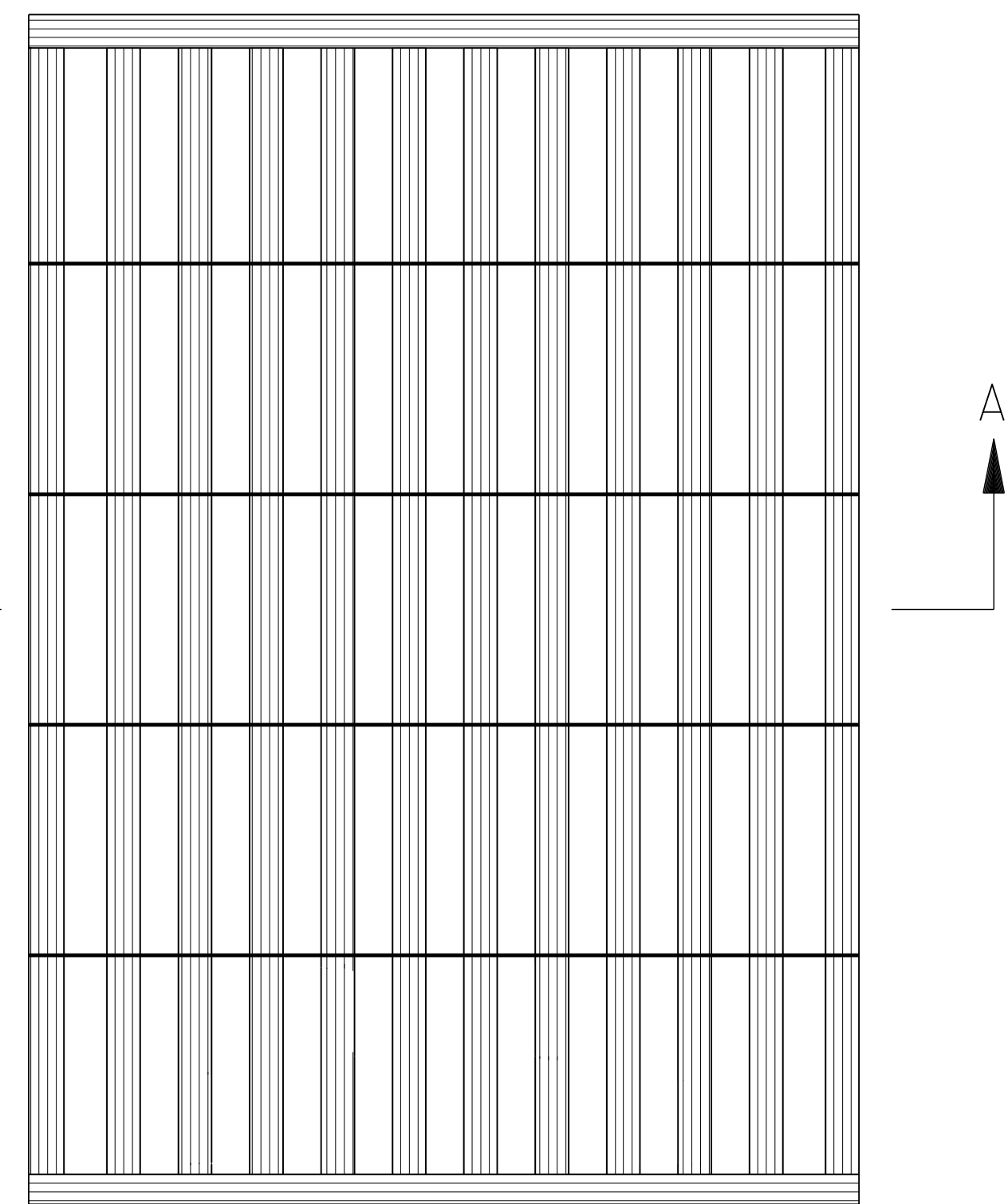


SECTION A-A

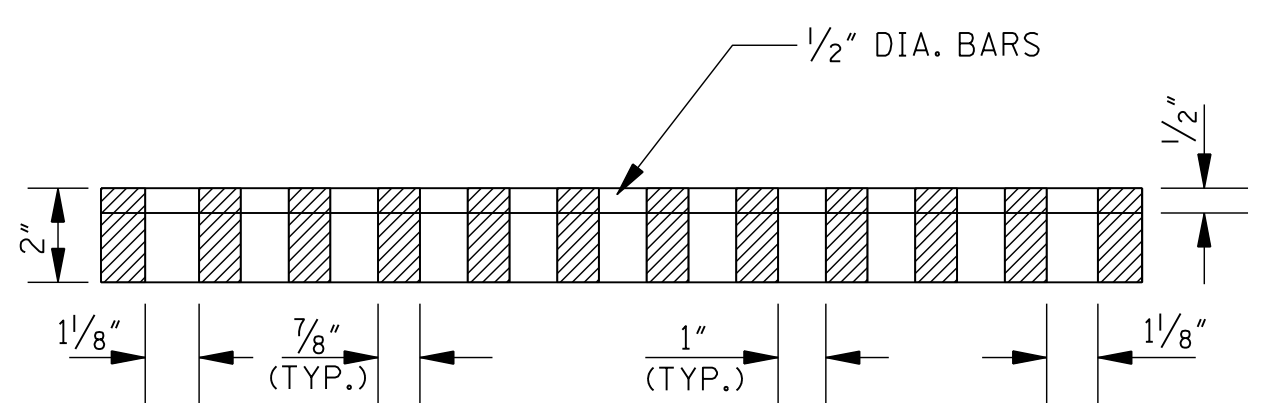


GRATE NO. 1 – ALTERNATE #2

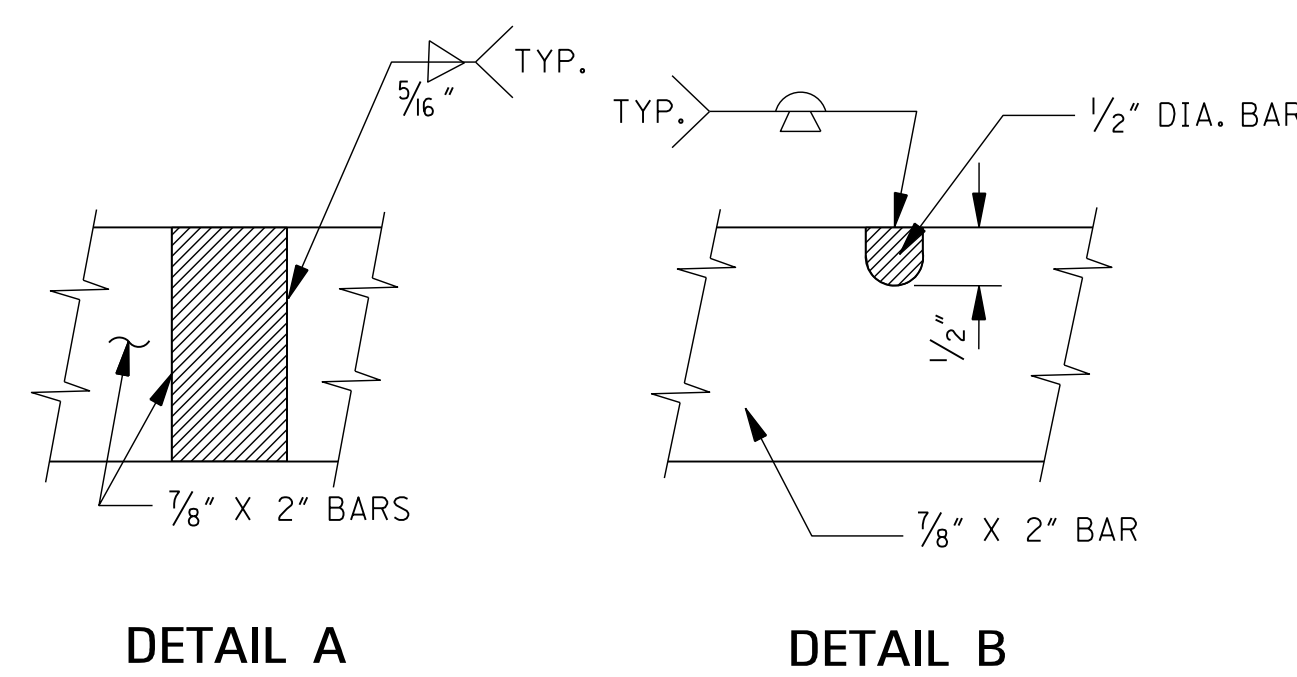
NOTE: PLAN DIMENSIONS FOR ALTERNATE #2
ARE IDENTICAL TO THAT OF ALTERNATE #1
AS SHOWN ON THE FIGURE AT LEFT.



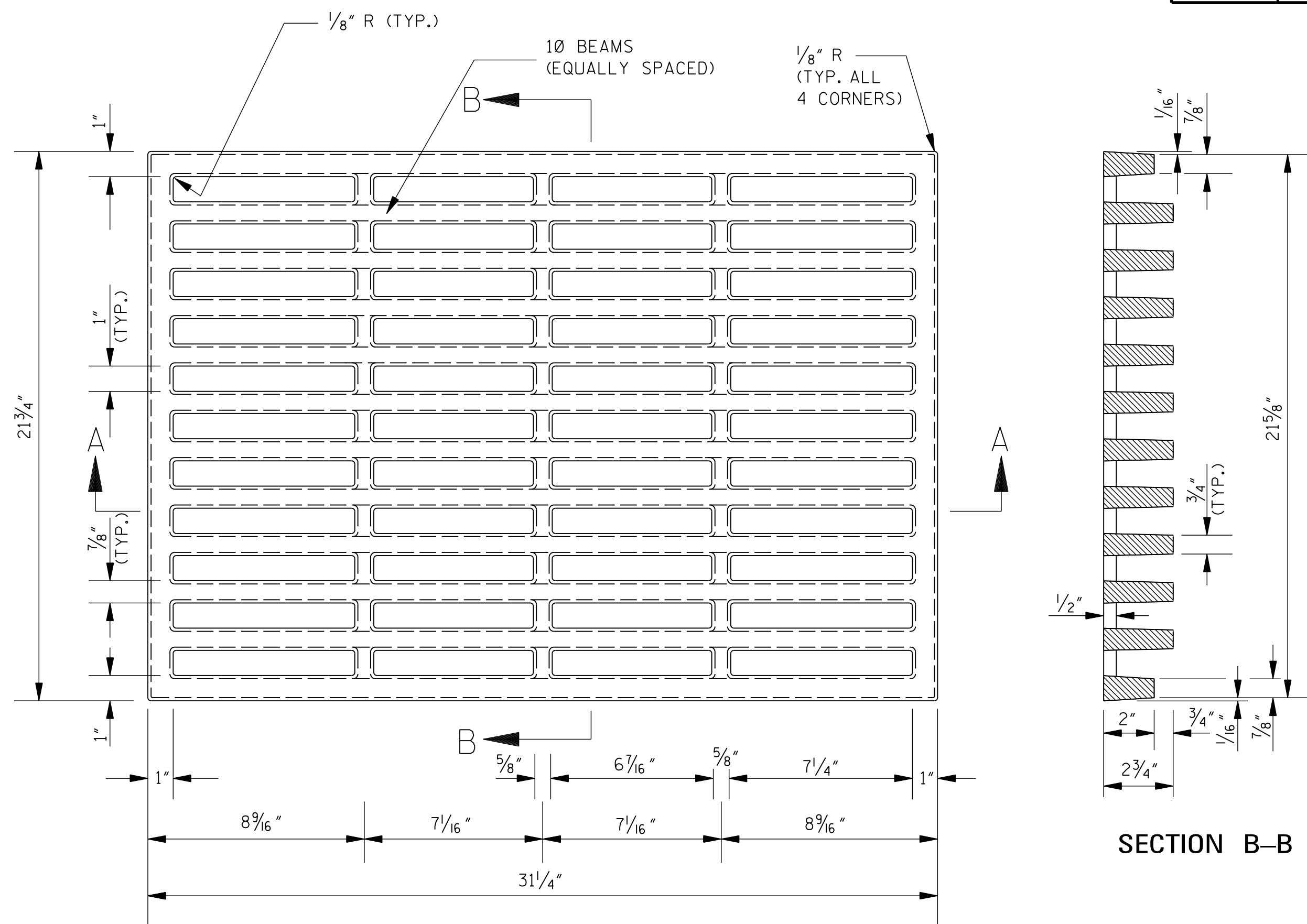
PLAN



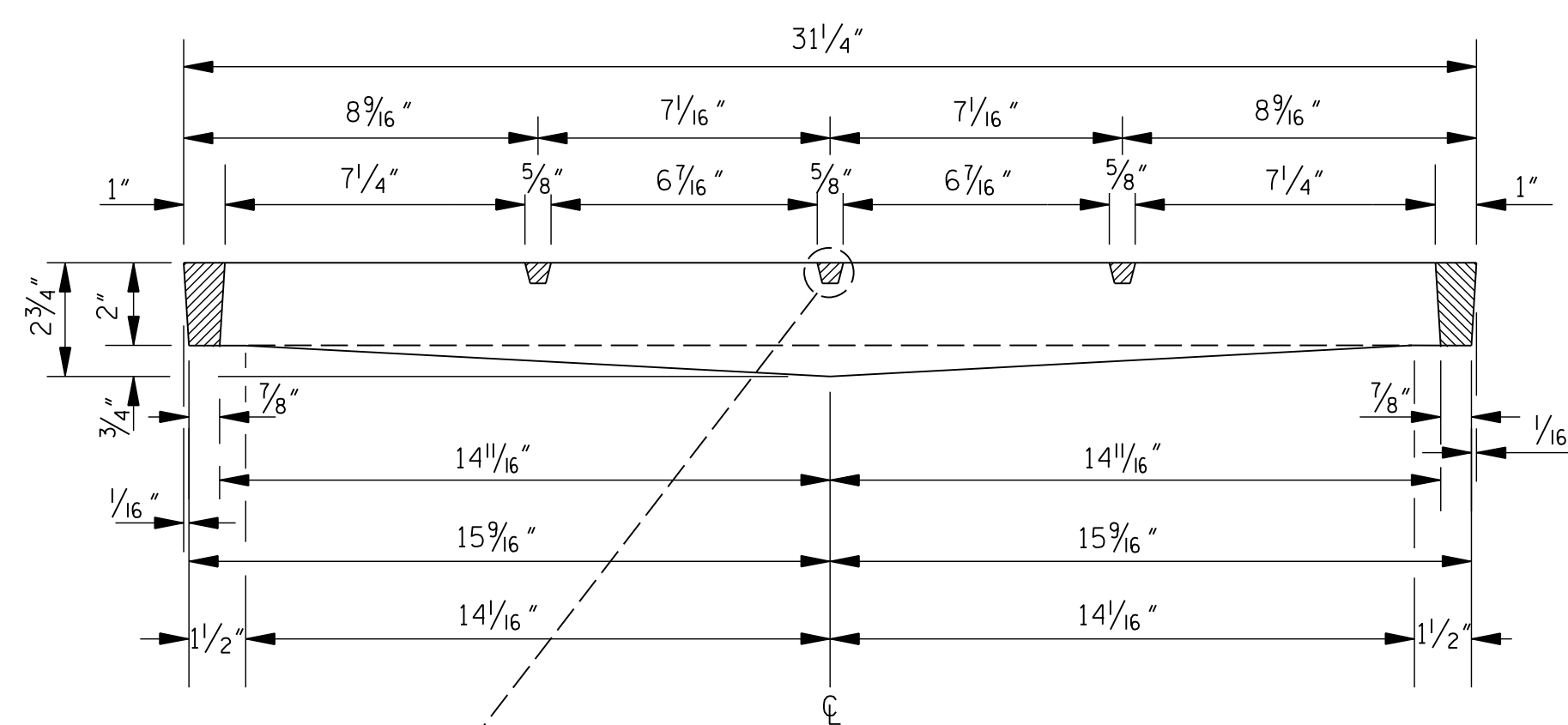
SECTION A-A



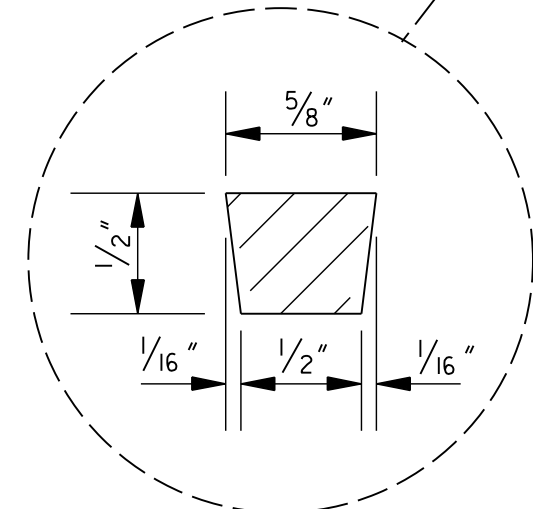
GRATE NO. 2



PLAN



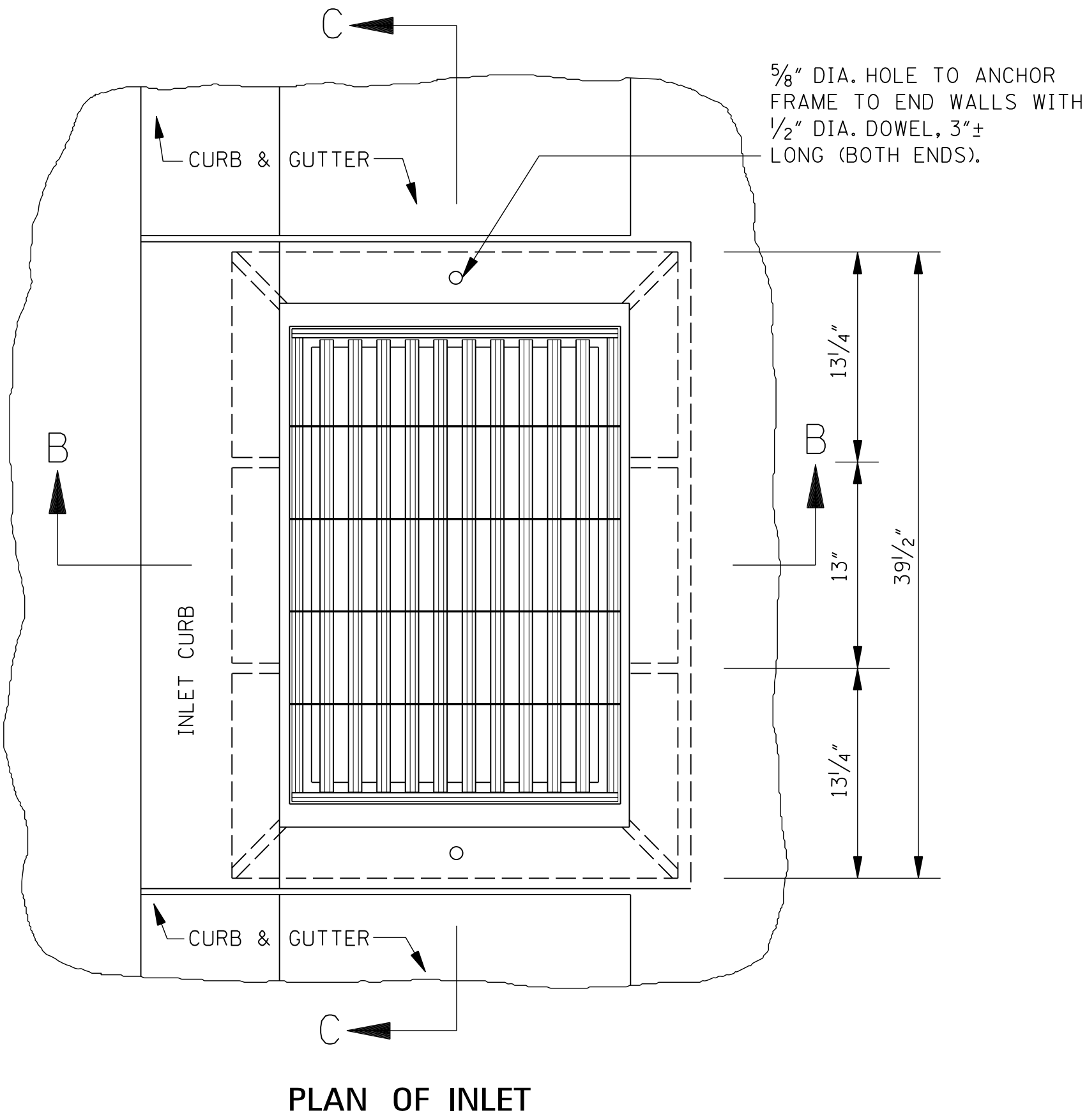
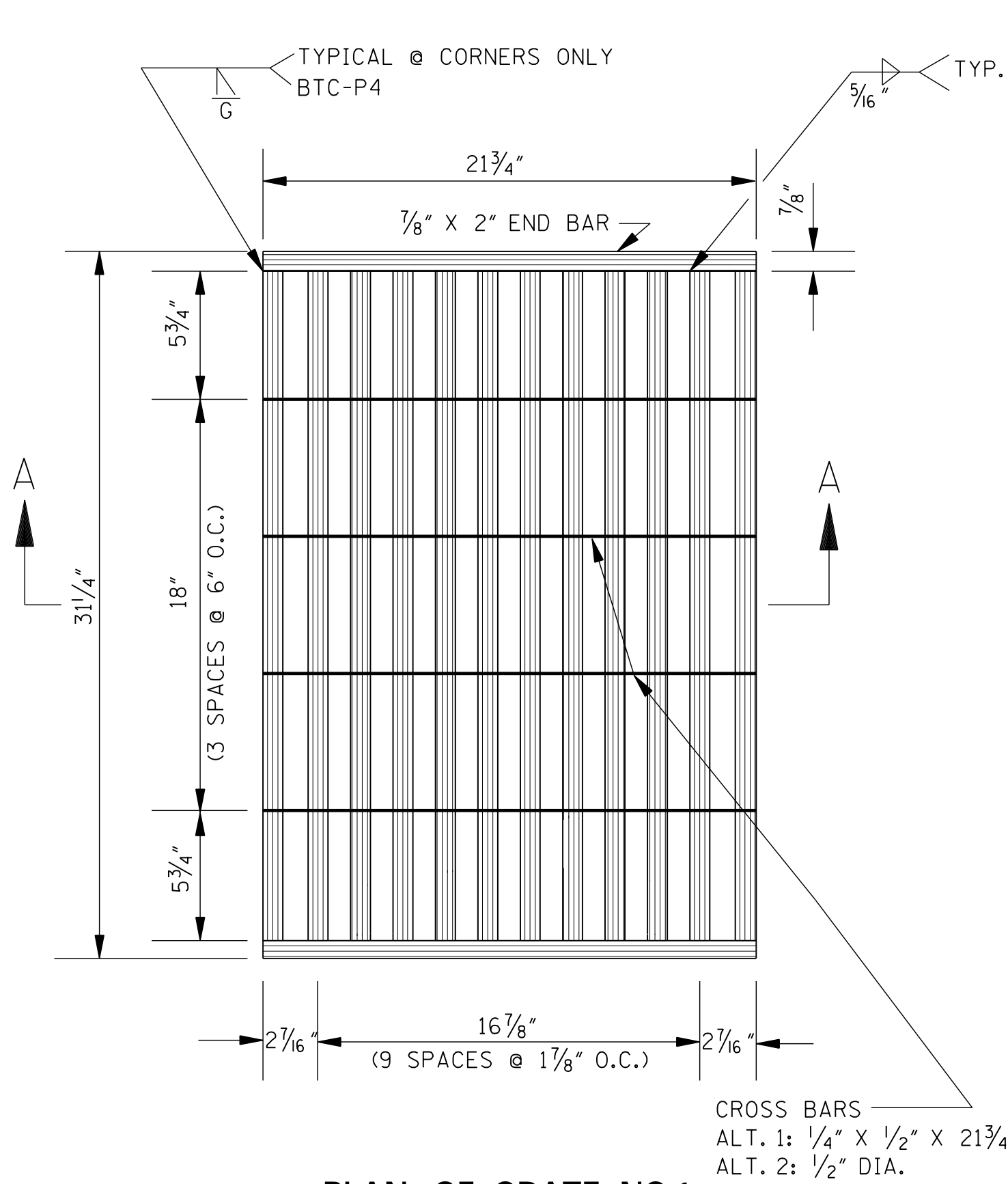
SECTION A-A



GENERAL NOTES:

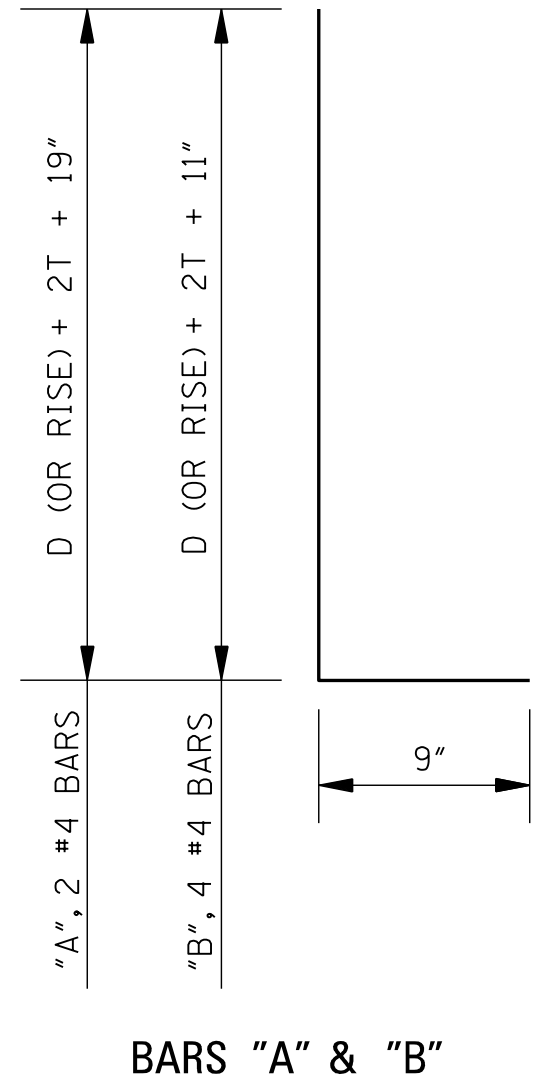
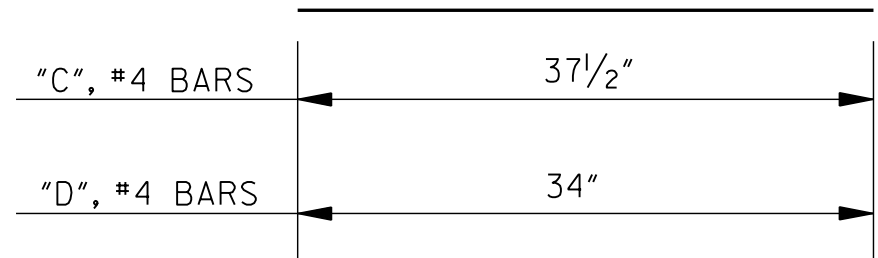
1. BASIS OF PAYMENT WILL BE 200 lbs OF GRATING FOR EITHER GRATE.
2. GRATE NO. 1
THE GRATE SHALL BE WELDED STEEL (ASTM A 588).
3. GRATE NO. 2
THE GRATE SHALL BE DUCTILE IRON (ASTM A 536, GRADE 80-55-06).

				BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN
				REVISION	DETAILS OF GRATES FOR GUTTER INLETS
				DATE	ISSUE DATE: AUGUST 01, 2017
					WORKING NUMBER IG-2
					SHEET NUMBER 6517



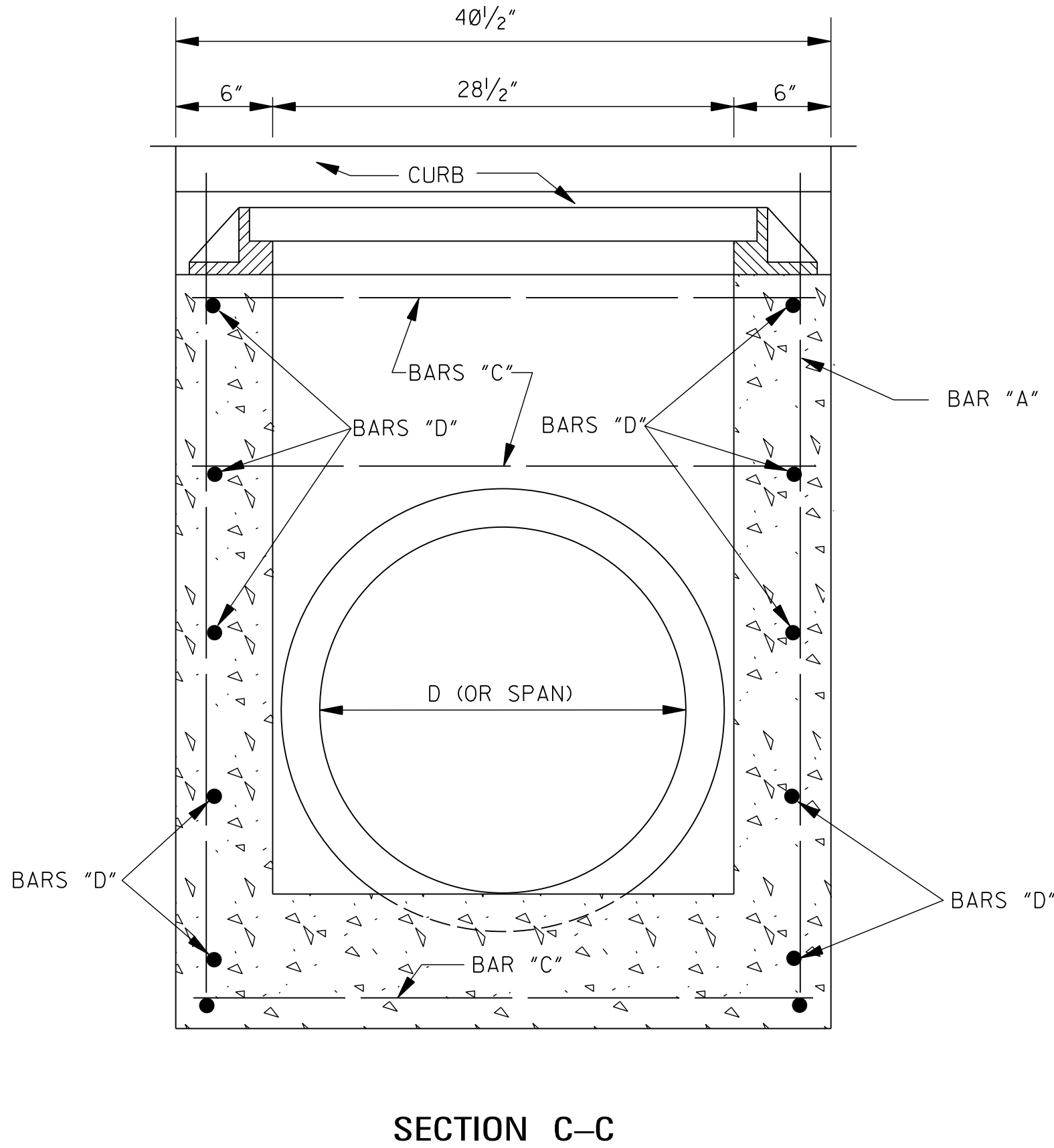
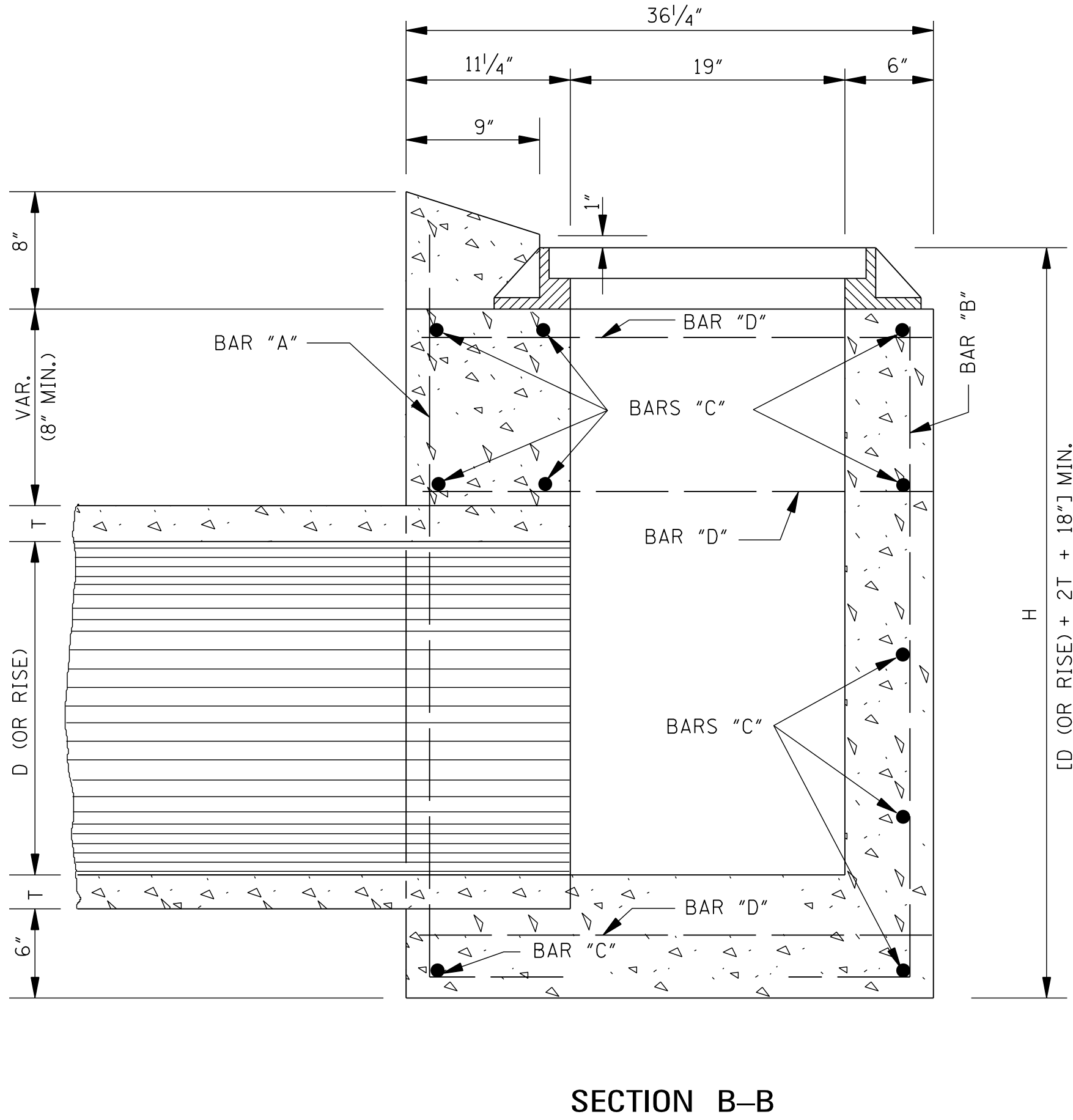
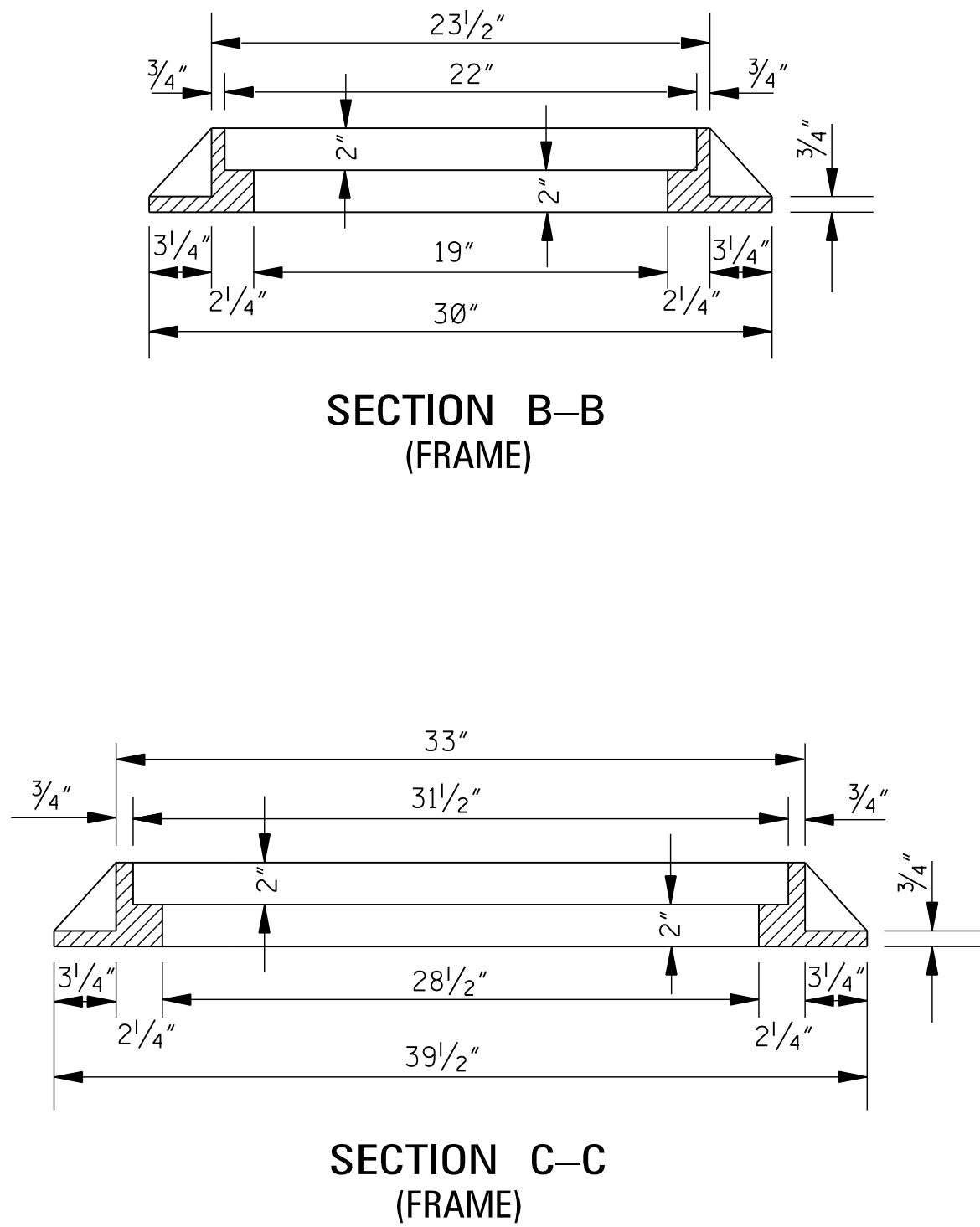
QUANTITIES									
PIPE SIZE	MIN. DEPTH TO F.L.	MIN. DEPTH INLET		PIPE OPENING DEDUCTION (yd³)	T	BAR LIST			
		CONC. (yd³)	STEEL (lbs)			BARS "A" #4	BARS "B" #4	BARS "C" #4	BARS "D" #4
18"	2.708'	0.763	55	0.053	2½"	2 @ 4'-3"	4 @ 3'-7"	10 @ 3'-1½"	10 @ 2'-10"
24"	3.250'	0.822	57	0.091	3"	2 @ 4'-10"	4 @ 4'-2"	10 @ 3'-1½"	10 @ 2'-10"
22" X 13"	2.333'	0.686	48	0.053	2½"	2 @ 3'-10½"	4 @ 3'-2½"	9 @ 3'-1½"	8 @ 2'-10"

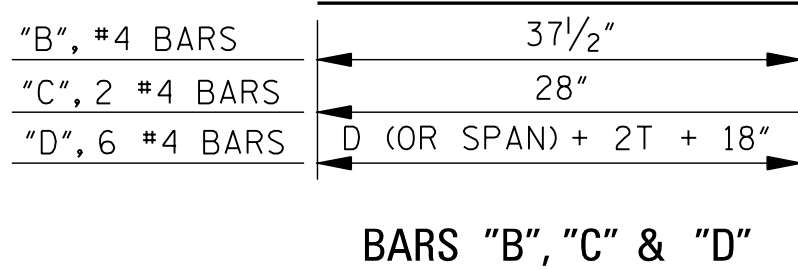
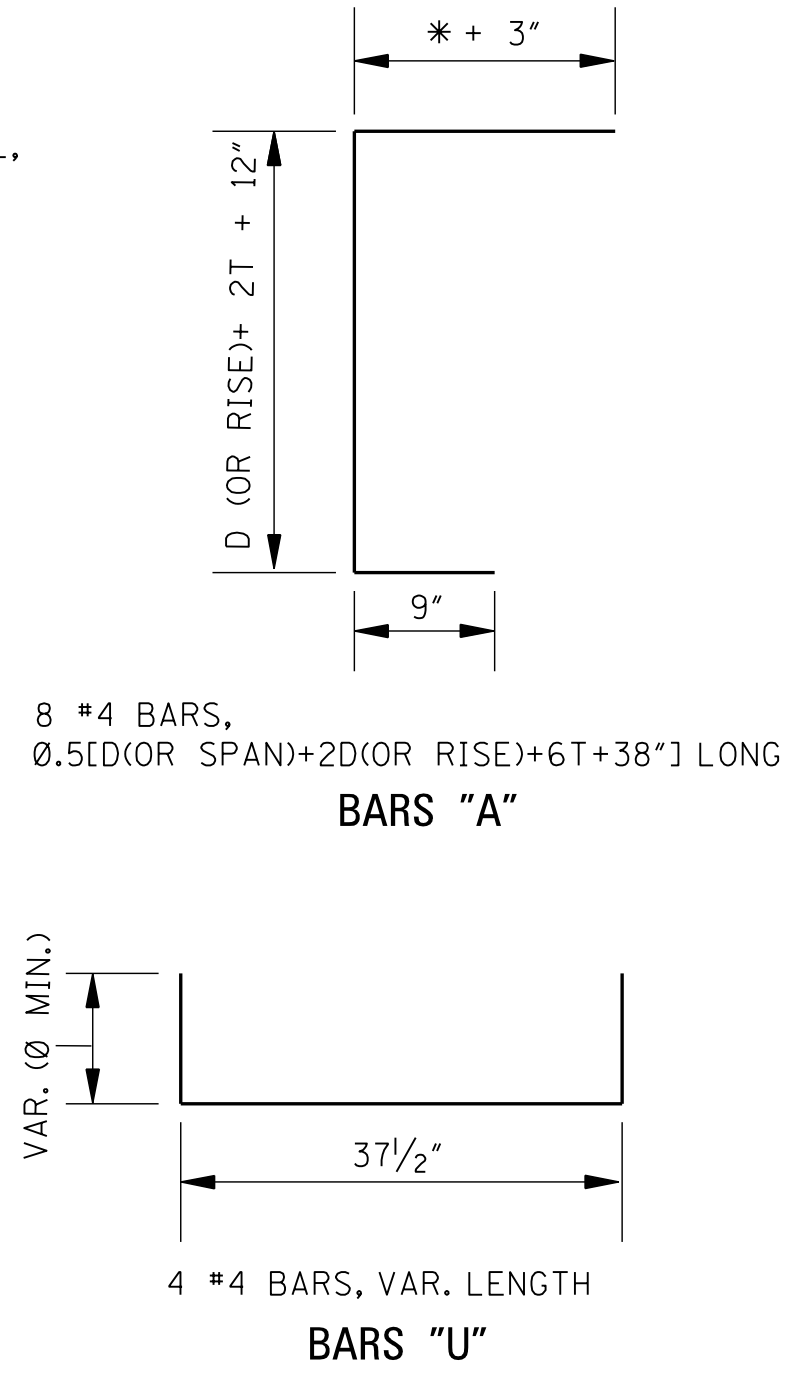
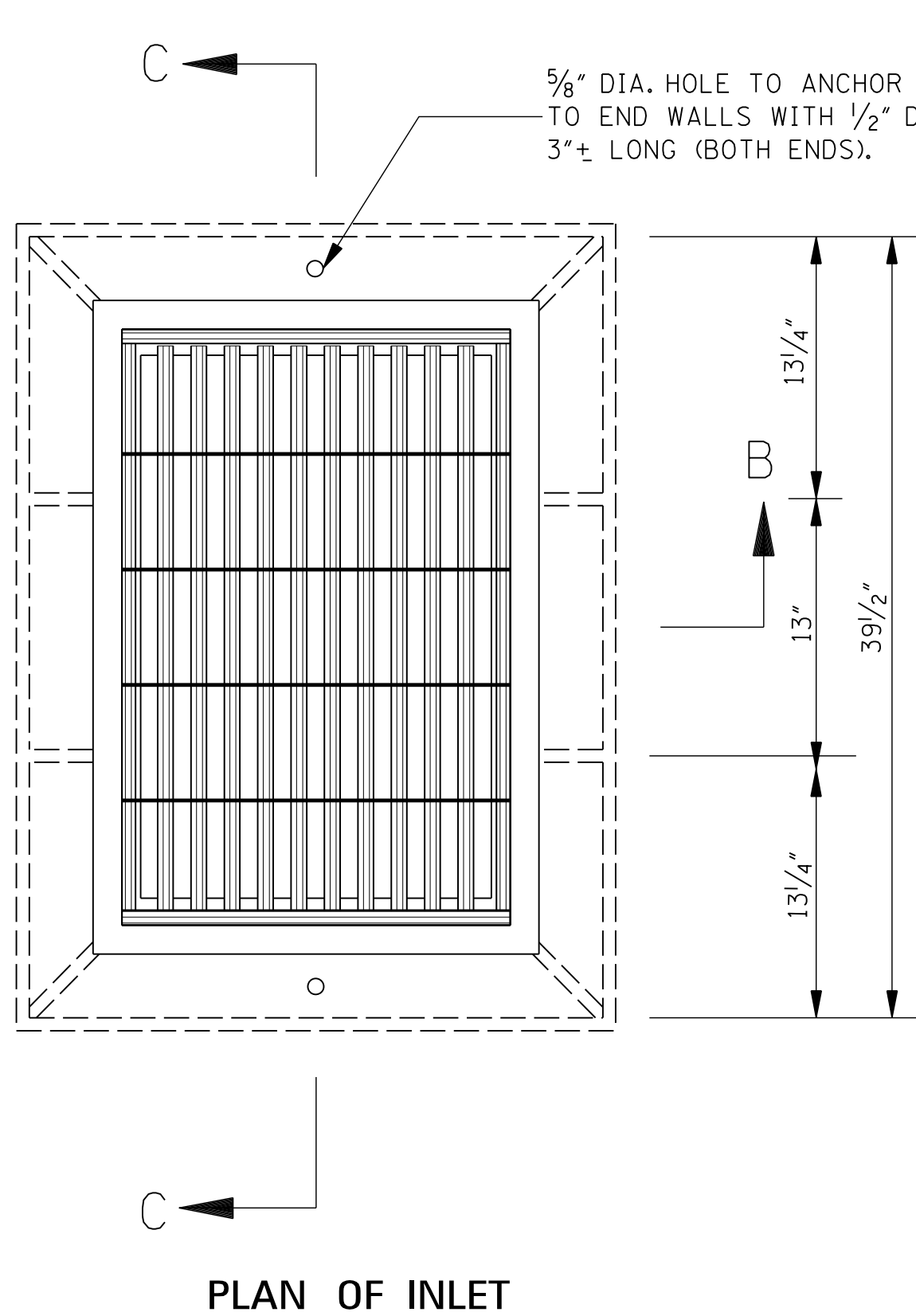
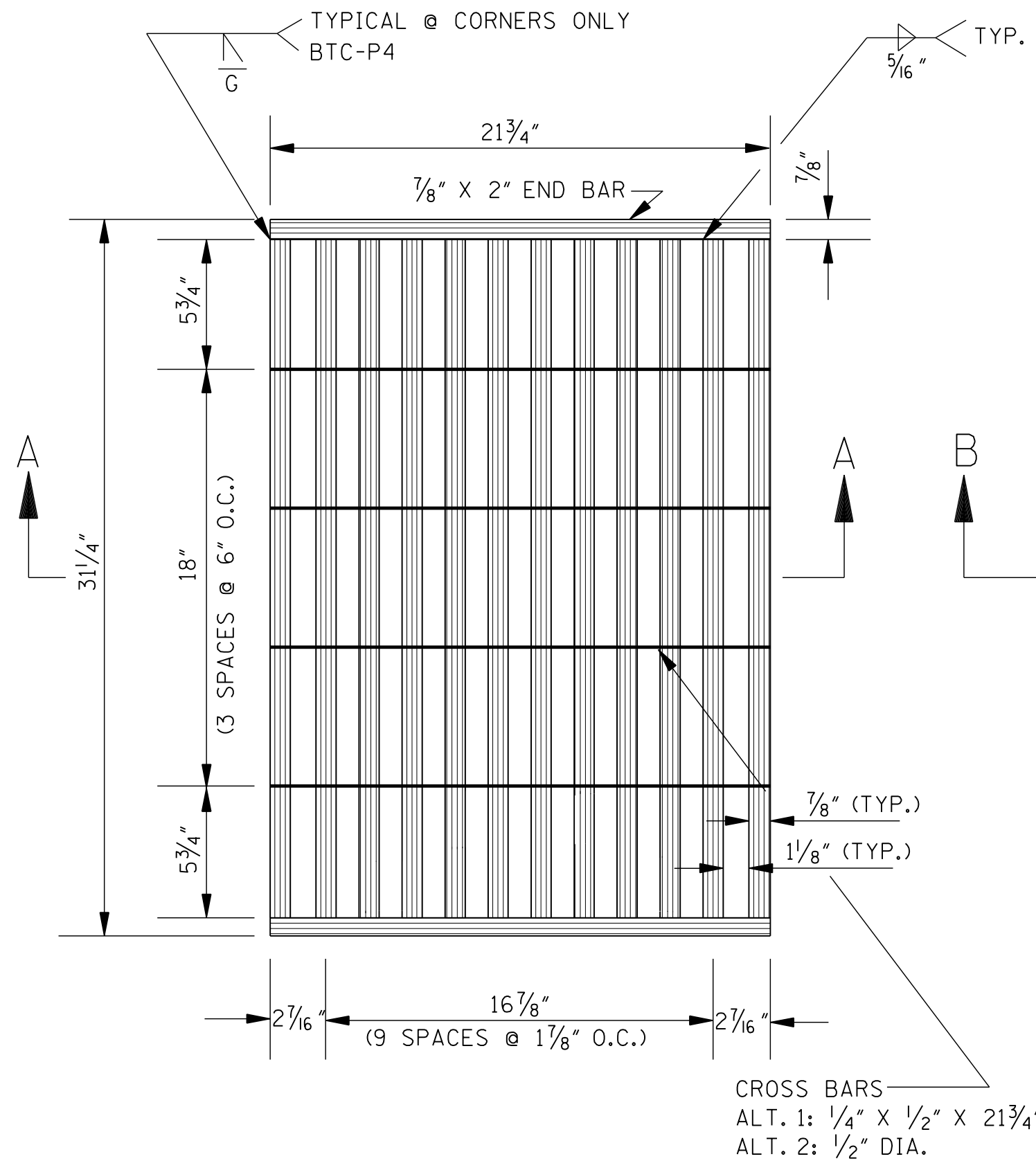
- NOTES:
- ONE (1) PIPE OPENING HAS BEEN DEDUCTED FROM THE STRUCTURE.
 - FOR EACH ADDITIONAL FOOT OF INLET HEIGHT, ADD 0.238 yd³ CLASS "B" CONCRETE AND 13 lbs REINFORCING STEEL.
 - 3 BARS "C" AND 2 BARS "D" REQUIRED PER EACH ADDITIONAL FOOT OF INLET HEIGHT. LENGTH OF BARS "A" & BARS "B" WILL BE INCREASED ACCORDING TO ADDITIONAL HEIGHT.
 - WEIGHT OF FRAME CASTING = 244 lbs.
WEIGHT OF GRATE = SEE SHEET IG-2.



BAR DETAILS

- GENERAL NOTES:
- QUANTITIES SHOWN WILL BE THE BASIS OF PAYMENT UNLESS AUTHORIZED MODIFICATIONS ARE MADE.
 - CONCRETE SHALL BE CLASS "B" CONCRETE AND REINFORCING STEEL SHALL BE DEFORMED BARS.
 - THE CONTRACTOR HAS THE OPTION TO PROVIDE GRATE NO. 1 OR GRATE NO. 2 AS SHOWN ON SHEET IG-2.
 - FRAME TO BE GRAY IRON CASTING, (AASHTO M 105, CLASS 30).



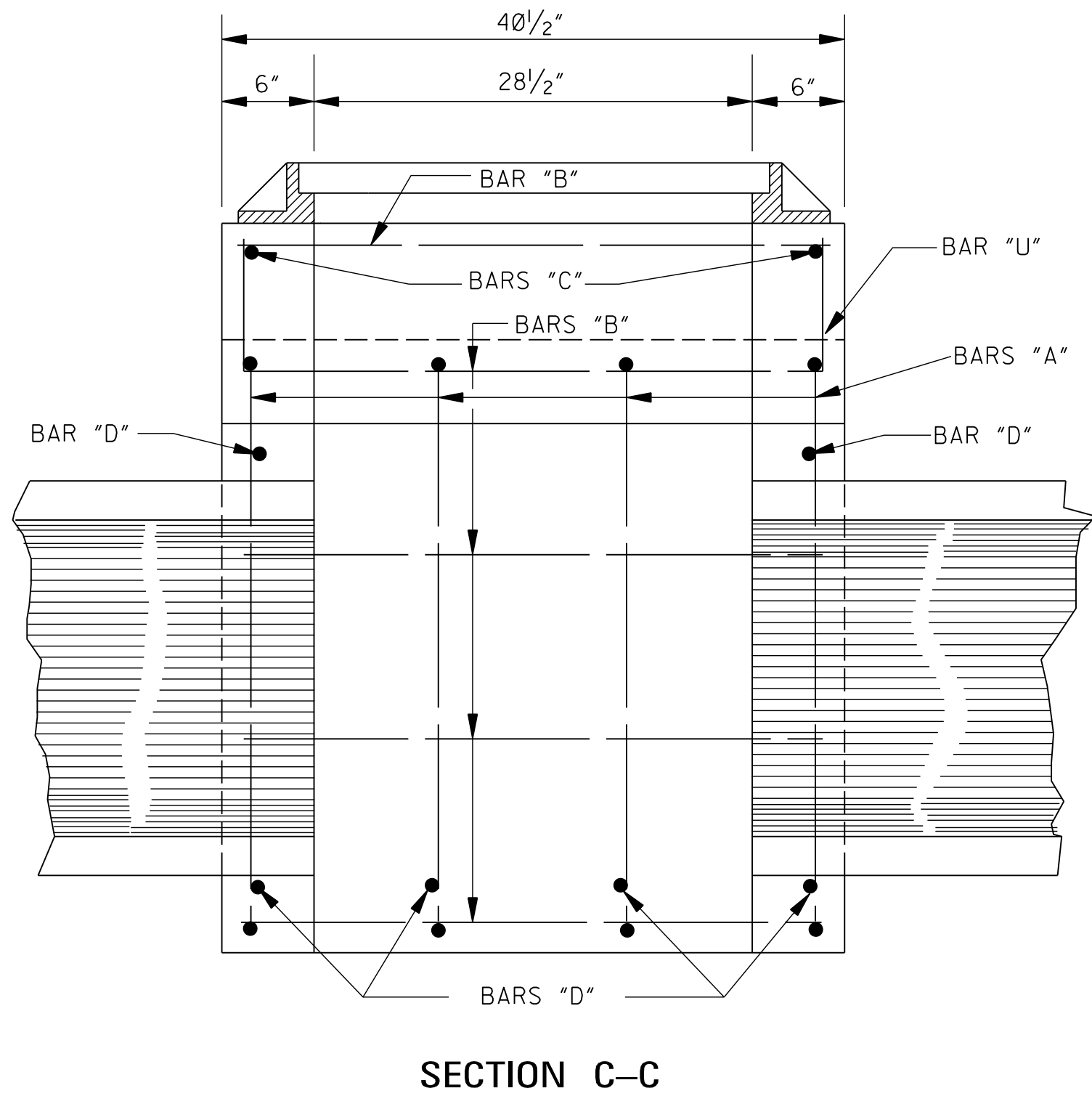
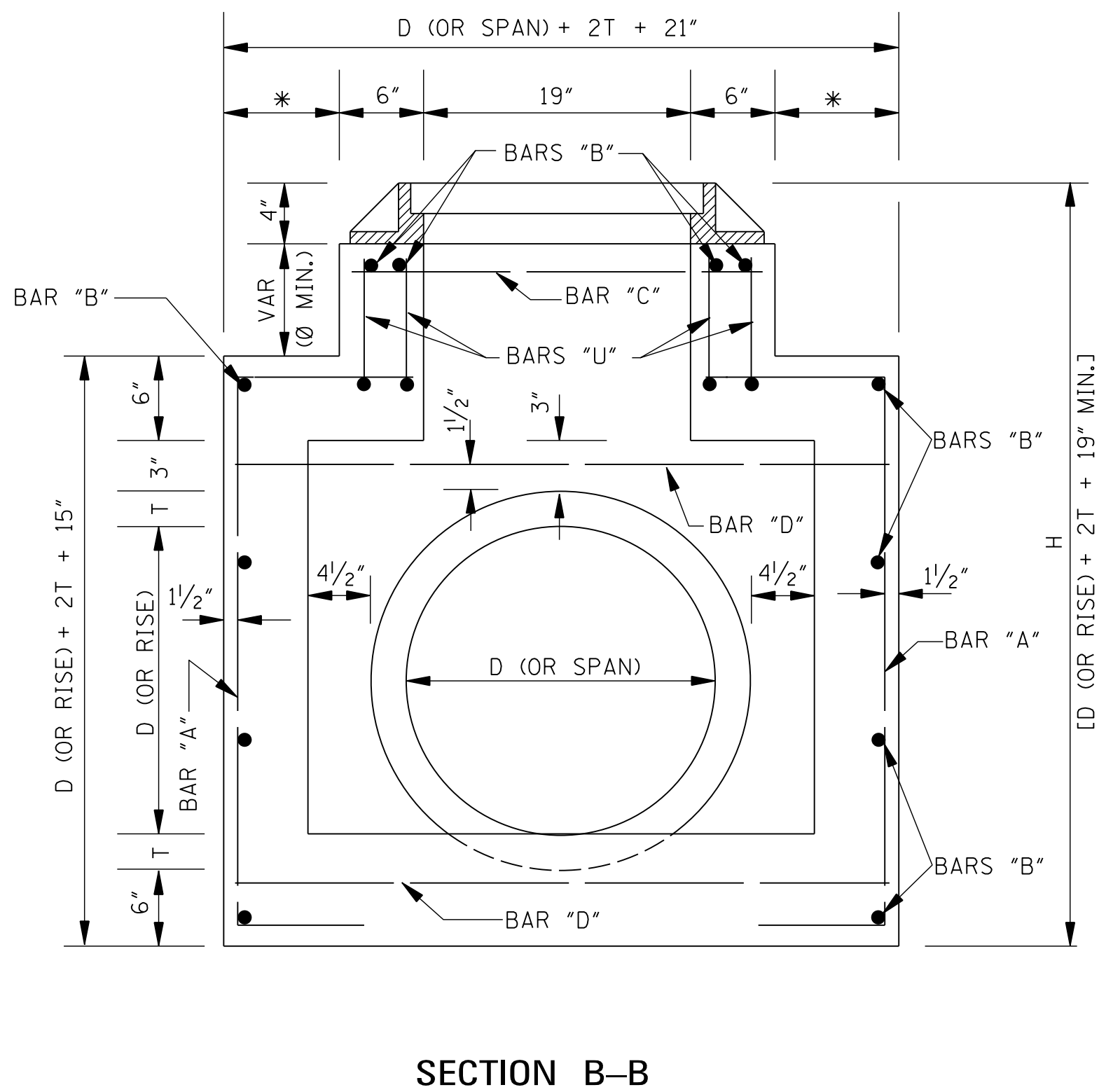
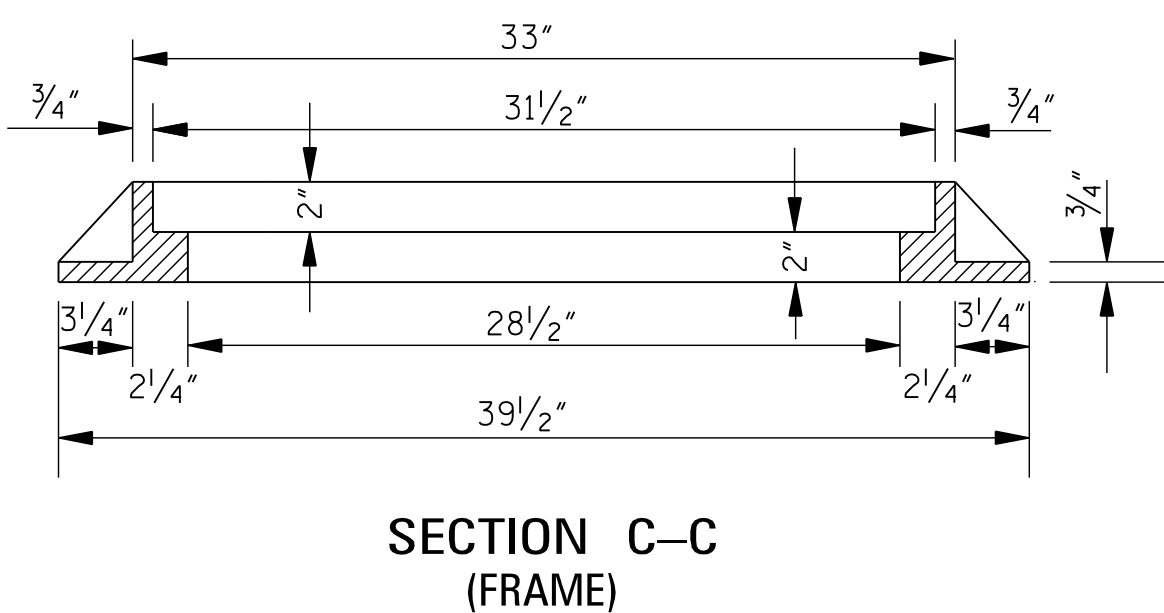
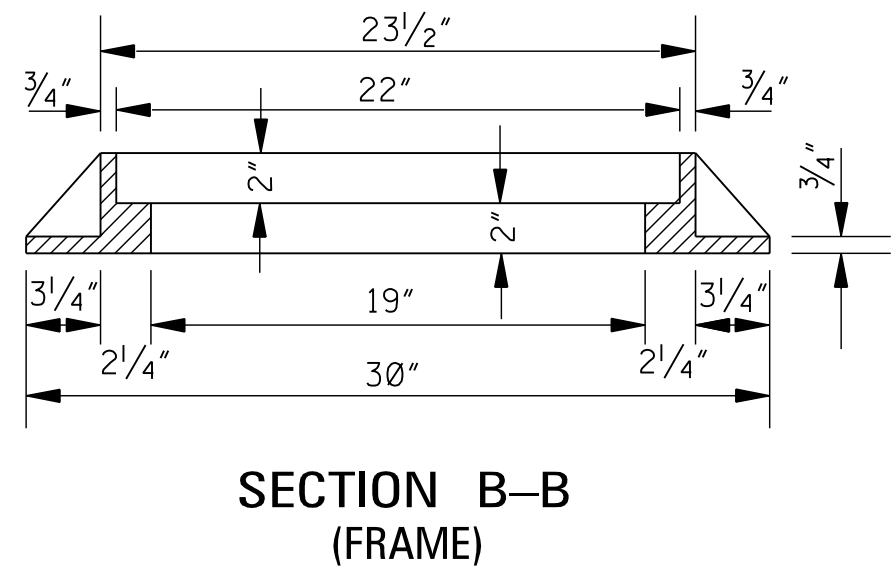


*NOTE:

$$\ast \left[\frac{D \text{ (OR SPAN)} + 2T - 10"}{2} \right]$$

QUANTITIES															
PIPE SIZE	MIN. DEPTH TO F.L.	MIN. DEPTH INLET		PIPE OPENING DEDUCTION (yd ³)	T	BARS/SIZES									
		CONC. (yd ³)	STEEL (lbs)			"A"	#4	'B"	#4	"C"	#4	"D"	#4	"U"	#4
						NO. @ LGTH.	NO. @ LGTH.	NO. @ LGTH.	NO. @ LGTH.	NO. @ LGTH.					
18"	2.792'	0.869	76	0.053	2½"	8 @ 4'-5½"	12 @ 3'- 1½"	2 @ 2'-4"	6 @ 3'-5"	4 @ 3'-9½"					
24"	3.334'	1.117	87	0.091	3"	8 @ 5'-4"	14 @ 3'- 1½"	2 @ 2'-4"	6 @ 4'-0"	4 @ 3'-9½"					
30"	3.875'	1.385	94	0.138	3½"	8 @ 6'-2½"	14 @ 3'- 1½"	2 @ 2'-4"	6 @ 4'-7"	4 @ 3'-9½"					
36"	4.417'	1.671	105	0.196	4"	8 @ 7'-1"	16 @ 3'- 1½"	2 @ 2'-4"	6 @ 5'-2"	4 @ 3'-9½"					
42"	4.959'	1.978	116	0.263	4½"	8 @ 7'-11½"	18 @ 3'- 1½"	2 @ 2'-4"	6 @ 5'-9"	4 @ 3'-9½"					
48"	5.500'	2.305	123	0.340	5"	8 @ 8'-10"	18 @ 3'- 1½"	2 @ 2'-4"	6 @ 6'-4"	4 @ 3'-9½"					
54"	6.042'	2.650	135	0.427	5½"	8 @ 9'-8½"	20 @ 3'- 1½"	2 @ 2'-4"	6 @ 6'-11"	4 @ 3'-9½"					
60"	6.583'	3.016	146	0.524	6"	8 @ 10'-7"	22 @ 3'- 1½"	2 @ 2'-4"	6 @ 7'-6"	4 @ 3'-9½"					
66"	7.125'	3.402	153	0.630	6½"	8 @ 11'-5½"	22 @ 3'- 1½"	2 @ 2'-4"	6 @ 8'-1"	4 @ 3'-9½"					
72"	7.667'	3.806	164	0.747	7"	8 @ 12'-4"	24 @ 3'- 1½"	2 @ 2'-4"	6 @ 8'-8"	4 @ 3'-9½"					
22" X 13"	2.417'	0.855	76	0.053	2½"	8 @ 4'-3"	12 @ 3'- 1½"	2 @ 2'-4"	6 @ 3'-9"	4 @ 3'-9½"					
29" X 18"	2.833'	1.085	83	0.087	3"	8 @ 5'-0¼"	12 @ 3'- 1½"	2 @ 2'-4"	6 @ 4'-4½"	4 @ 3'-9½"					
36" X 23"	3.250'	1.358	94	0.129	3½"	8 @ 5'-10"	14 @ 3'- 1½"	2 @ 2'-4"	6 @ 5'-1"	4 @ 3'-9½"					
44" X 27"	3.635'	1.631	101	0.185	4"	8 @ 6'-7½"	14 @ 3'- 1½"	2 @ 2'-4"	6 @ 5'-10"	4 @ 3'-9½"					
51" X 31"	4.068'	1.942	113	0.245	4½"	8 @ 7'-5½"	16 @ 3'- 1½"	2 @ 2'-4"	6 @ 6'-6"	4 @ 3'-9½"					
58" X 36"	4.500'	2.269	120	0.318	5"	8 @ 8'-3"	16 @ 3'- 1½"	2 @ 2'-4"	6 @ 7'-2½"	4 @ 3'-9½"					
65" X 40"	4.875'	2.575	130	0.394	5½"	8 @ 9'-0"	18 @ 3'- 1½"	2 @ 2'-4"	6 @ 7'-10"	4 @ 3'-9½"					
73" X 45"	5.333'	2.966	139	0.489	6"	8 @ 9'-10½"	18 @ 3'- 1½"	2 @ 2'-4"	6 @ 8'-7"	4 @ 3'-9½"					
88" X 54"	6.167'	3.765	156	0.688	7"	8 @ 11'-6"	20 @ 3'- 1½"	2 @ 2'-4"	6 @ 10'-0"	4 @ 3'-9½"					

- NOTES:
- ONE (1) PIPE OPENING HAS BEEN DEDUCTED FROM THE STRUCTURE.
 - FOR EACH ADDITIONAL FOOT OF INLET HEIGHT, ADD 0.184 yd³ CLASS "B" CONCRETE AND 17 lbs REINFORCING STEEL.
 - 4 BARS "B" AND 2 BARS "C" REQUIRED PER EACH ADDITIONAL FOOT OF INLET HEIGHT.
 - WEIGHT OF FRAME CASTING = 244 lbs.
WEIGHT OF GRATE = SEE SHEET IG-2.



- GENERAL NOTES:
- QUANTITIES SHOWN WILL BE THE BASIS OF PAYMENT UNLESS AUTHORIZED MODIFICATIONS ARE MADE.
 - CONCRETE SHALL BE CLASS "B" CONCRETE AND REINFORCING STEEL SHALL BE DEFORMED BARS.
 - THE CONTRACTOR HAS THE OPTION TO PROVIDE GRATE NO. 1 OR GRATE NO. 2 AS SHOWN ON SHEET IG-2.
 - FRAME TO BE GRAY IRON CASTING, (AASHTO M 105, CLASS 30).

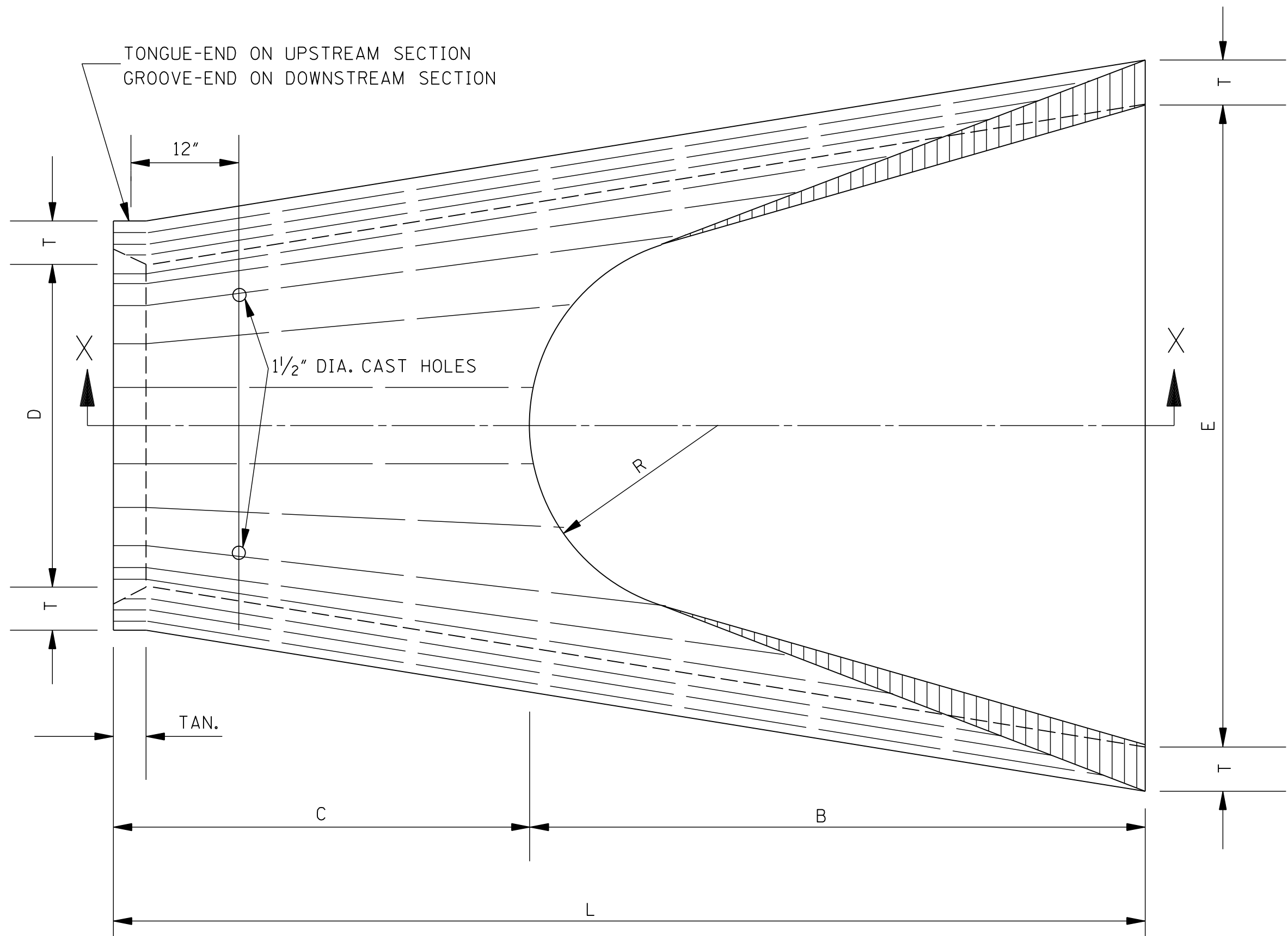
				BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
				REVISION	STORM SEWER INLET TYPE SS-3	
				DATE		
				ISSUE DATE:	AUGUST 01, 2017	

WORKING NUMBER
SS-3

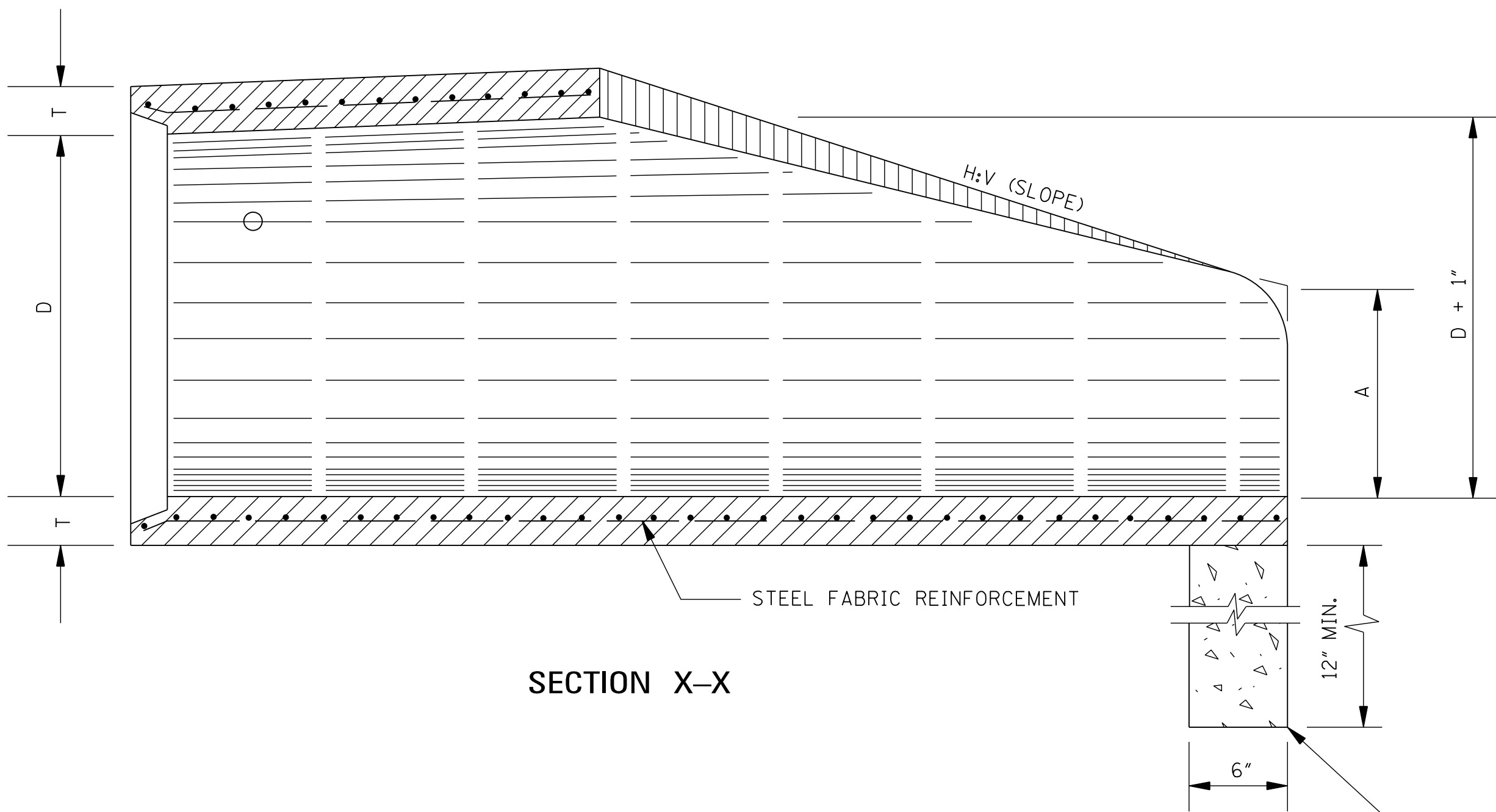
SHEET NUMBER
6525

BELL AND SPIGOT END OPTION

NOTE: BELL-END ON DOWNSTREAM SECTION
SPIGOT-END ON UPSTREAM SECTION.



PLAN OF DOWNSTREAM END



SECTION X-X

TOE WALL REQUIRED ON ALL FLARED END SECTIONS. TO BE PAID FOR AS CLASS "B" STRUCTURAL CONCRETE - MINOR STRUCTURES.

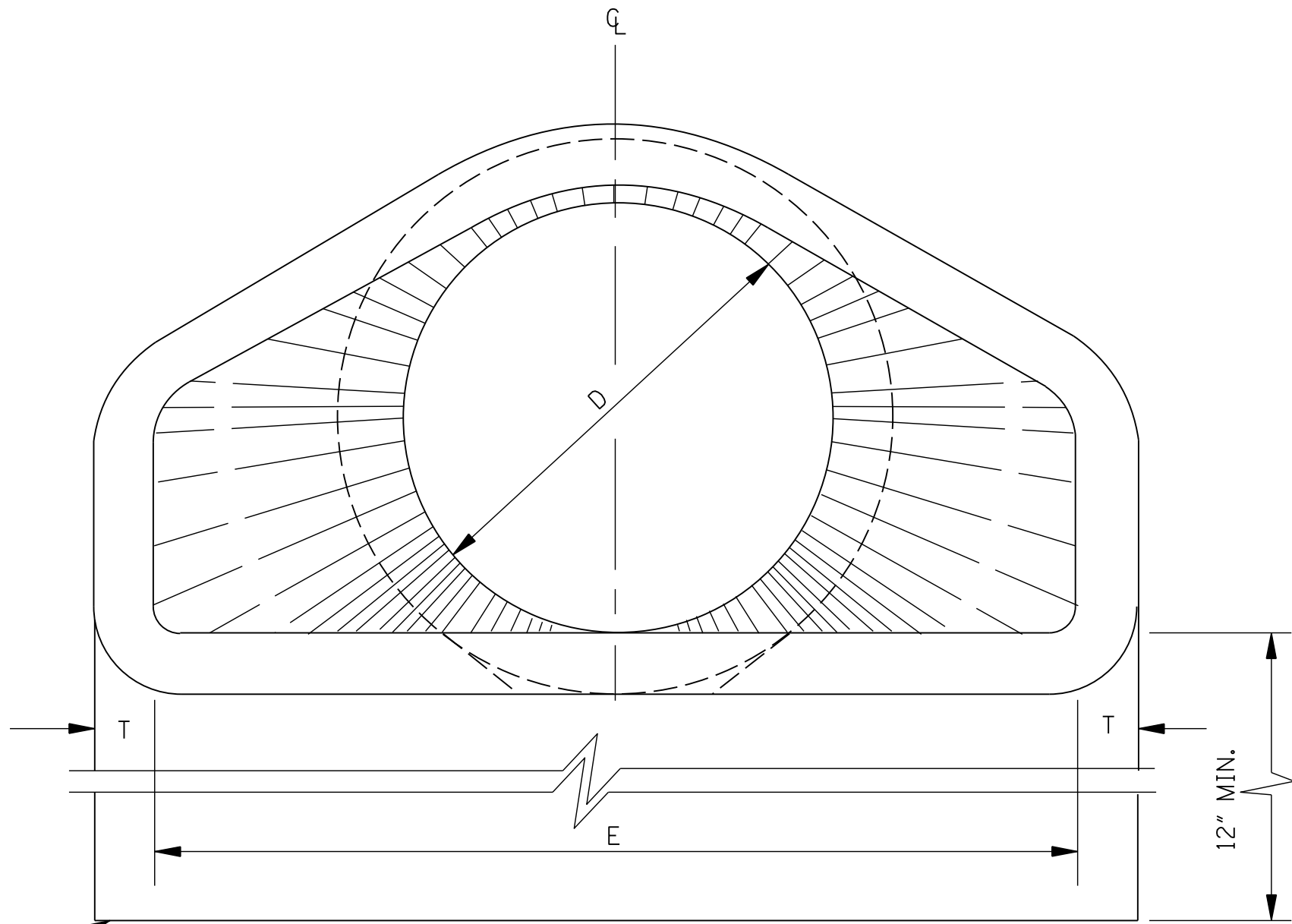
TABLE OF DIMENSIONS							
D	T	H:V	A	B	C	E	L
15"	2 1/4"	3:1	6"	2'-3"	4'-1"	2'-8"	6'-1"
18"	2 1/2"	3:1	9"	2'-3"	3'-10"	3'-0"	6'-1"
24"	3"	3:1	10"	3'-8"	2'-6"	4'-0"	6'-2"
30"	3 1/2"	3:1	1'-0"	4'-6"	1'-8"	5'-0"	6'-2"
36"	4"	3:1	1'-3"	5'-3"	2'-11"	6'-0"	8'-2"
42"	4 1/2"	3:1	1'-9"	5'-3"	2'-11"	6'-6"	8'-2"
48"	5"	3:1	2'-0"	6'-0"	2'-2"	7'-0"	8'-2"
54"	5 1/2"	3:1	2'-4"	6'-6"	1'-10"	7'-6"	8'-4"
* 60"	6"	3:1	2'-10"	6'-6"	1'-10"	8'-0"	8'-4"
* 66"	6 1/2"	3:1	3'-4"	6'-6"	1'-10"	8'-6"	8'-4"
* 72"	7"	3:1	3'-10"	6'-6"	1'-10"	9'-0"	8'-4"

* NOTE: SEE GENERAL NOTE 2.

TOE WALL CONC. QUANTITY (yd ³)
0.056
0.063
0.083
0.102
0.123
0.134
0.145
0.156
0.167
0.177
0.188

GENERAL NOTES:

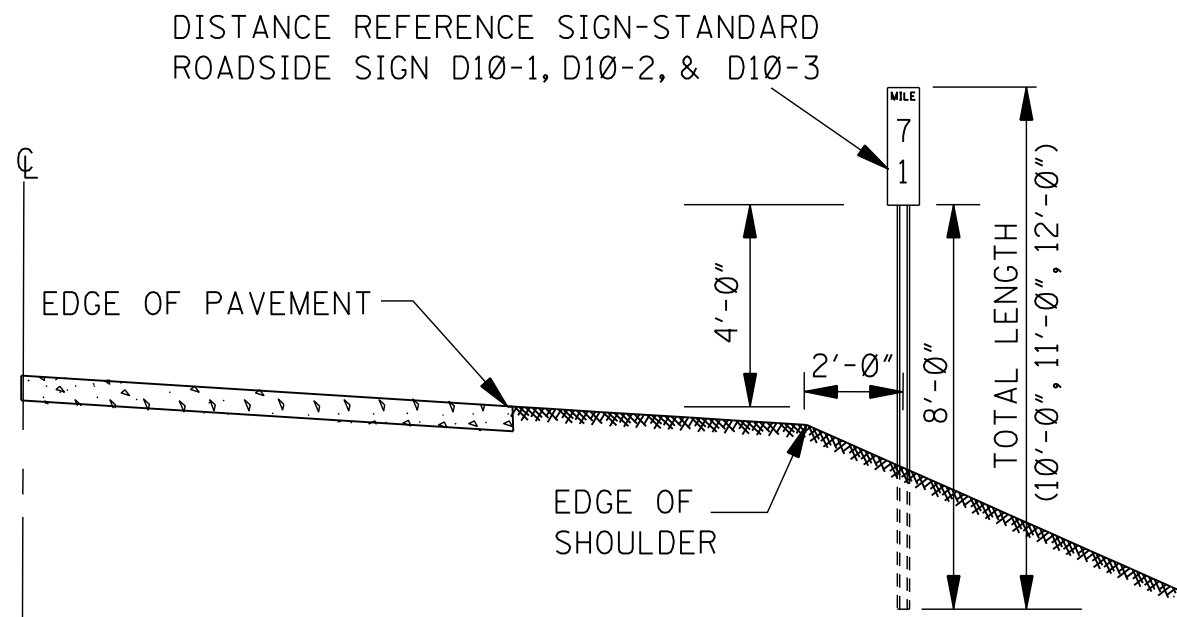
- REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF REINFORCED CONCRETE PIPE OF LIKE DIAMETER PER AASHTO M 170, TABLE 2, WALL B.
- 2 - 1 1/2" DIA. CAST HOLES REQUIRED AS SHOWN TO ACCOMMODATE 2 - 1" DIA. TIE BOLTS, USED IN TIEING SECTION TO PIPE CULVERT.
- LENGTH (L) OF A BELL-END OPTION MAY VARY BY A NOMINAL EXTENSION ON THE BELL END.
- FLARED END SECTIONS SHOULD BE REGARDED AS OBSTACLES UNDER THE BELOW CONDITIONS AND AS SUCH SHOULD BE LOCATED OUTSIDE OF THE CLEAR ZONE:
 - CROSS DRAINS WITH SINGLE ROUND PIPES OF DIAMETER GREATER THAN 36" OR EQUIVALENT FOR ARCH PIPES.
 - CROSS DRAINS WITH MULTIPLE ROUND PIPES OF DIAMETER GREATER THAN 30" OR EQUIVALENT FOR ARCH PIPES.
 - PARALLEL SIDE DRAINS WITH SINGLE ROUND PIPES OF DIAMETER GREATER THAN 24" OR EQUIVALENT FOR ARCH PIPES.
- ALL SIZES OF FLARED END SECTIONS FOR CIRCULAR CONCRETE PIPE MAY BE FURNISHED WITH EITHER BELL AND SPIGOT OR TONGUE AND GROOVE ENDS.



END ELEVATION

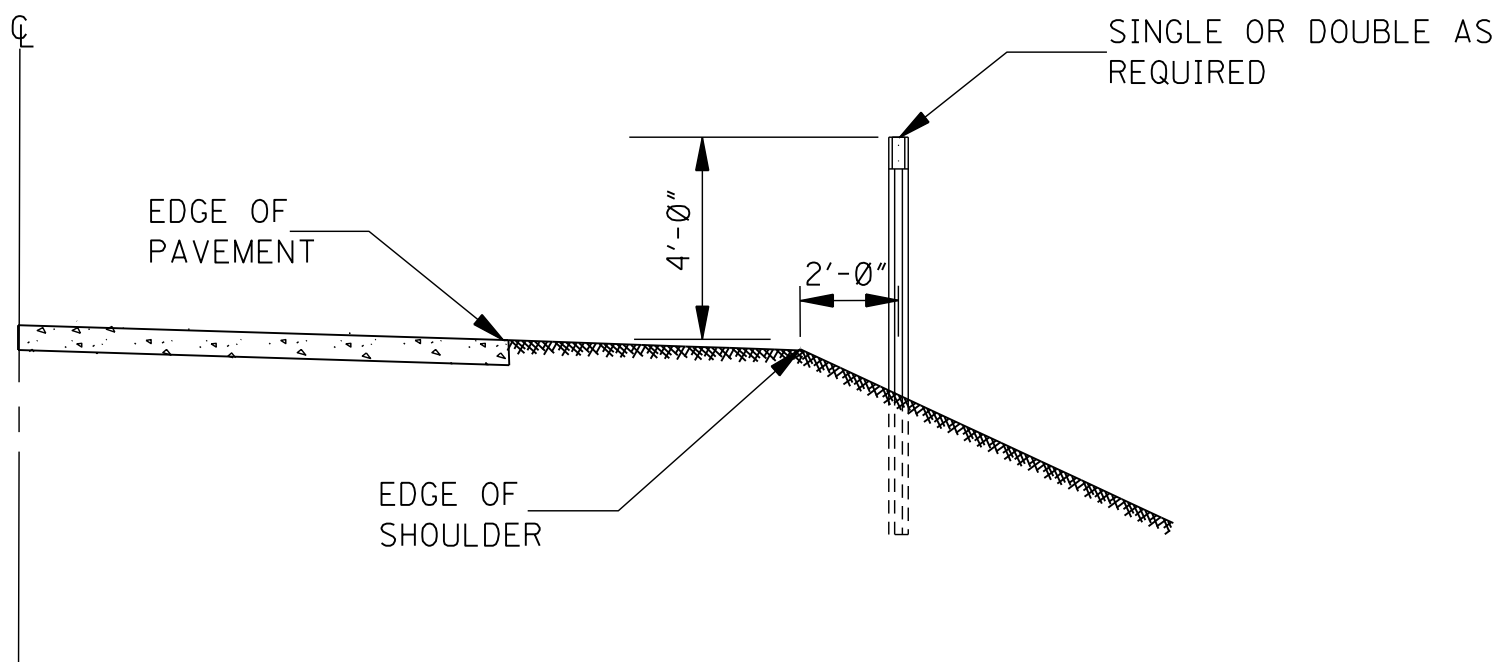
				BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
					ROADWAY DESIGN DIVISION	
					STANDARD PLAN	
				REVISION	FLARED END SECTION FOR CONCRETE PIPE	
				DATE	ISSUE DATE: AUGUST 01, 2017	
						
					WORKING NUMBER FE-1	
					SHEET NUMBER 6530	

STATE	PROJECT NO.
MISS.	UPDATE

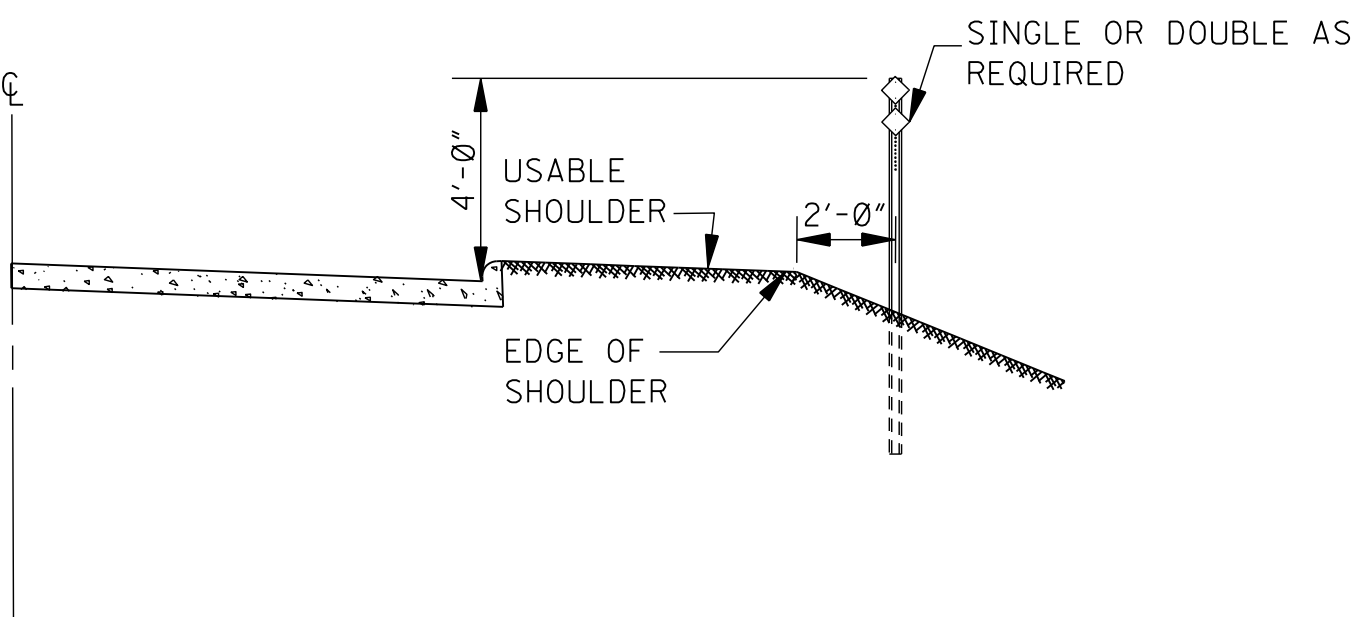


DISTANCE REFERENCE SIGN MOUNTING ON OUTSIDE SHOULDER ALONG MAIN FACILITY

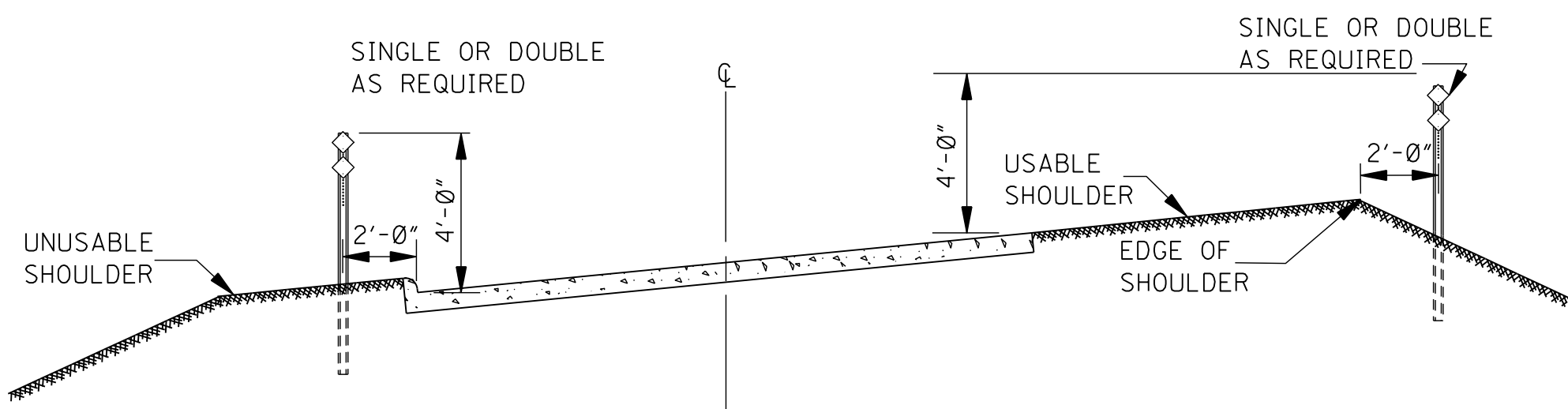
NOTE: SIGN MOUNTING ON LEFT LANE SHOULDER SHALL BE 90° OPPOSITE THE RIGHT LANE STATION. IF CONDITIONS ARE SUCH THAT MILE SIGN CANNOT BE LOCATED WITHIN 50 FEET OF ITS TRUE LOCATION, IT SHALL BE OMITTED ENTIRELY.



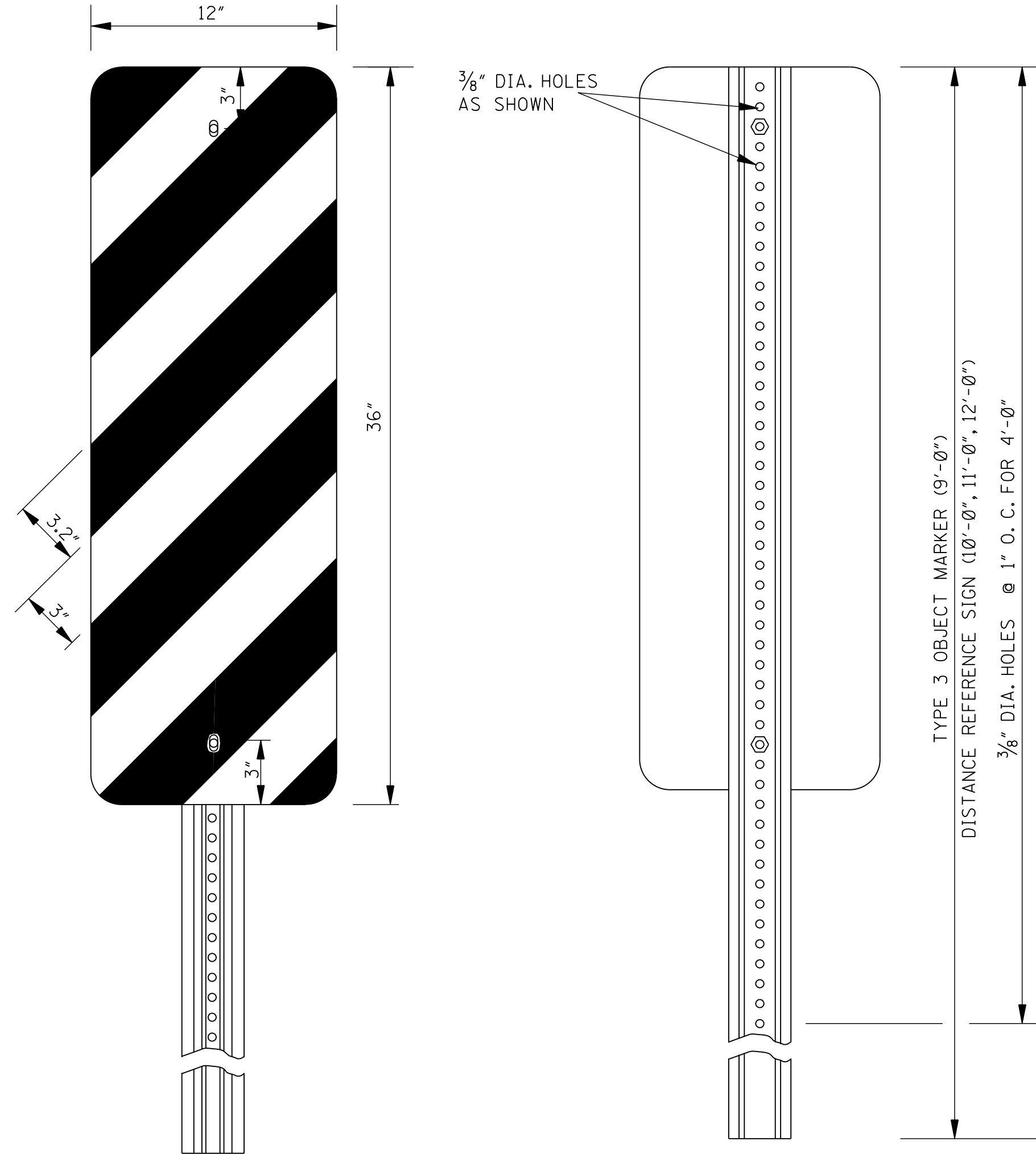
DELINEATOR MOUNTING ON OUTSIDE SHOULDER ALONG MAIN FACILITY OR RAMP



DELINEATOR MOUNTING ON OUTSIDE SHOULDER WITH MOUNTABLE CURB ALONG MAIN FACILITY OR RAMP



DELINEATOR MOUNTING ON INTERCHANGE LOOPS WITH UNMOUNTABLE CURB ON INSIDE

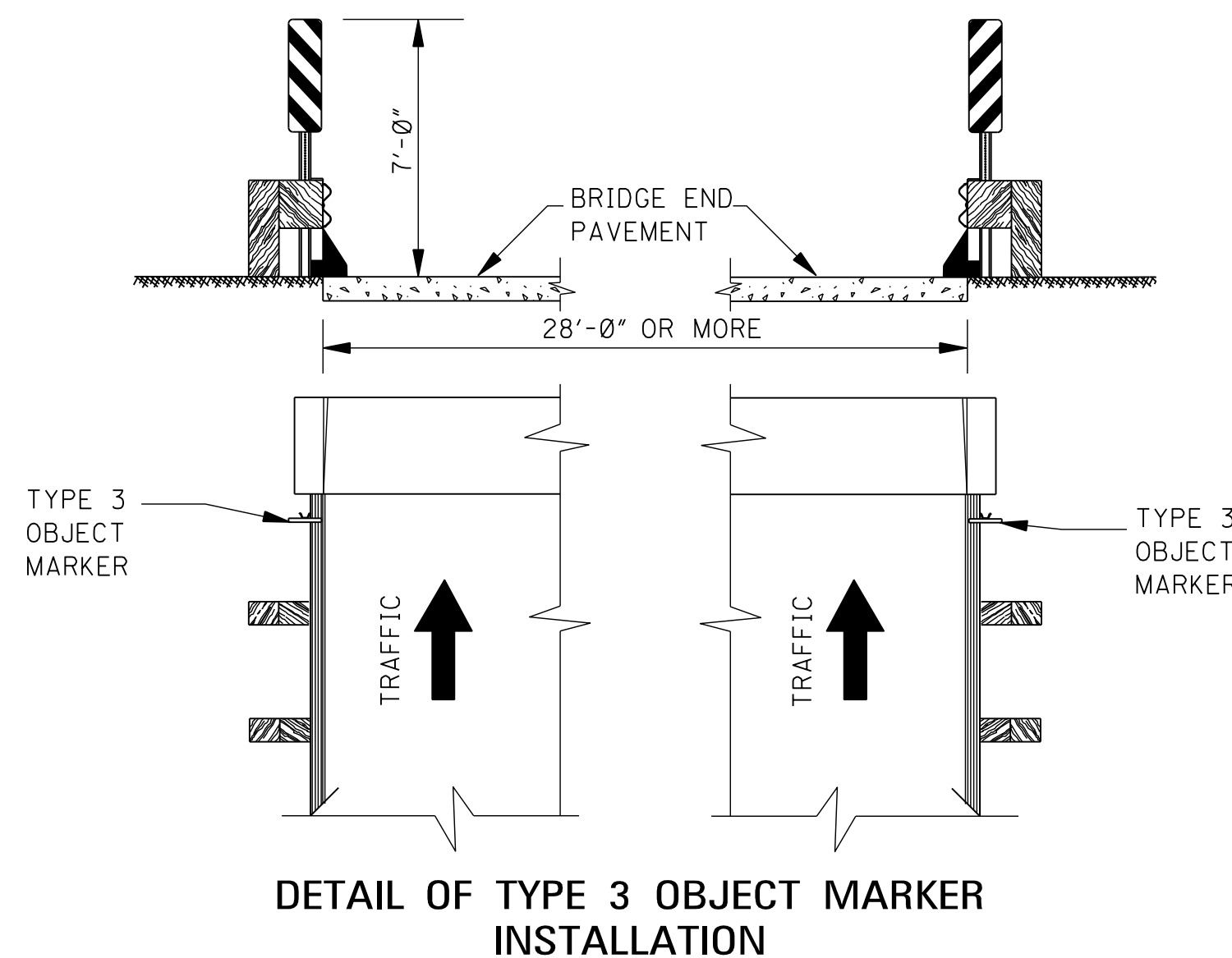


DETAIL OF TYPE 3 OBJECT MARKER

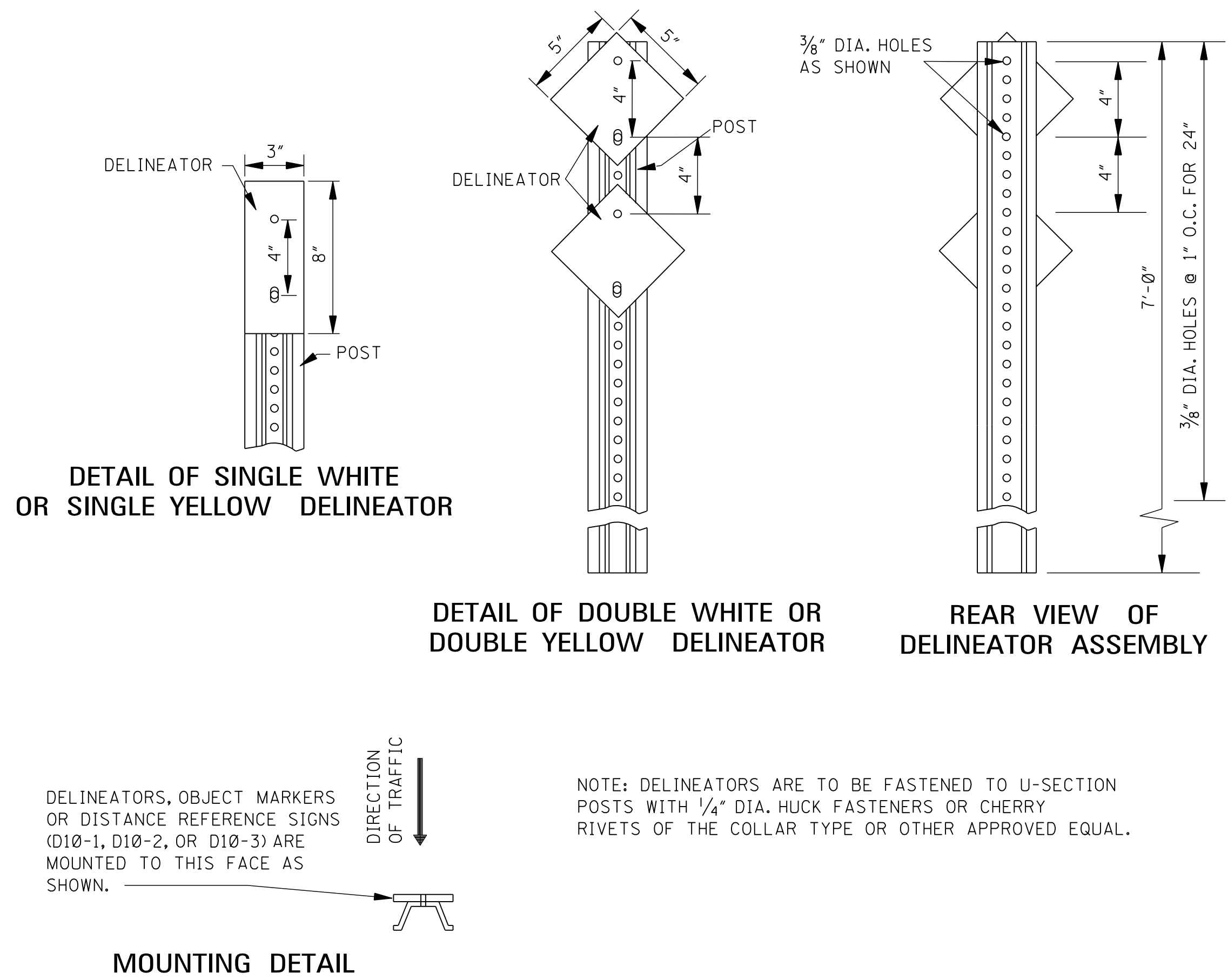
NOTE: COLORS- BLACK AND YELLOW. STRIPING SHOWN ABOVE FOR RIGHT SIDE ONLY. STRIPES SLANT DOWNWARD TO THE RIGHT FOR LEFT SIDE OF BRIDGE END. SEE DETAIL BELOW.

REAR VIEW OF TYPE 3 OBJECT MARKER OR DISTANCE REFERENCE SIGN ASSEMBLY

NOTE: TYPE 3 OBJECT MARKER AND DISTANCE REFERENCE SIGNS ARE TO BE FASTENED TO U-SECTION POSTS WITH 5/16" DIA. HUCK FASTENERS OR CHERRY RIVETS OF THE COLLAR TYPE OR OTHER APPROVED EQUAL.



DETAIL OF TYPE 3 OBJECT MARKER INSTALLATION

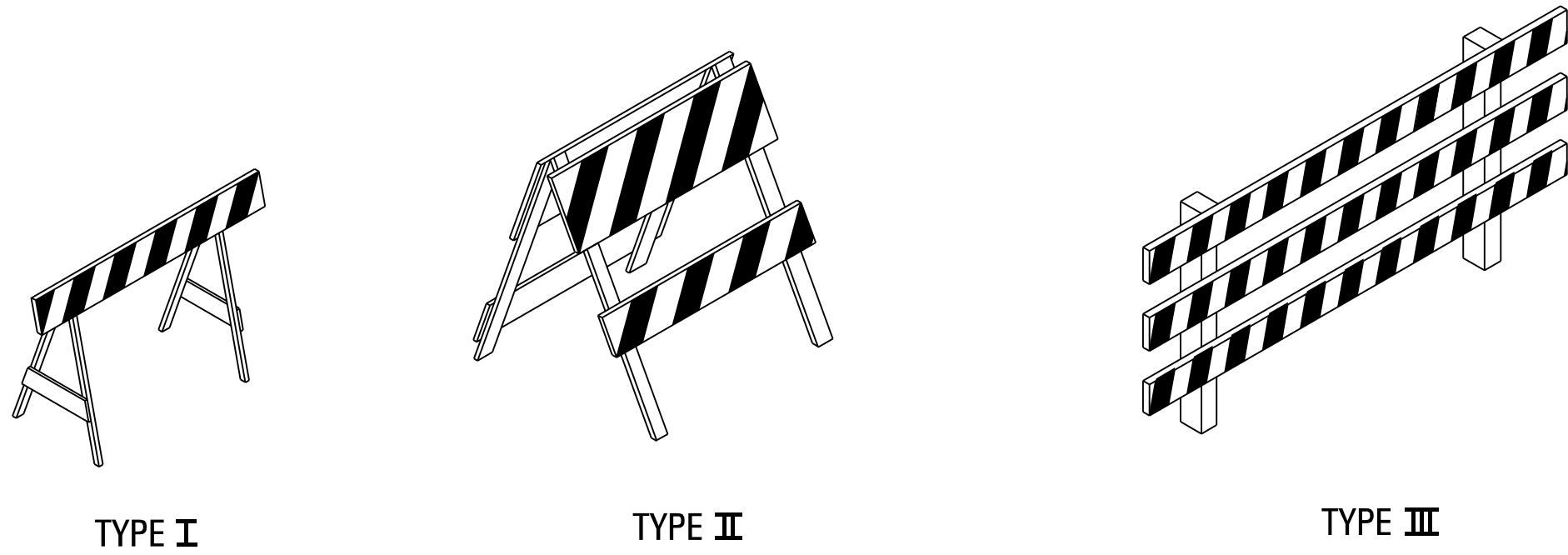


GENERAL NOTES:

- DELINEATORS AND TYPE 3 OBJECT MARKER SHALL BE REFLECTIVE SHEETING ON 0.080" THICK ALUMINUM SHEET OR 14 GAGE GALVANIZED SHEET STEEL.
- DELINEATOR, TYPE 3 OBJECT MARKER AND DISTANCE REFERENCE SIGN POSTS SHALL BE GALVANIZED STEEL. THE POSTS ARE TO BE FABRICATED BEFORE THE METAL IS GALVANIZED.
- WEIGHT WITHOUT GROUND PLATES:
A. DELINEATOR POST 7'-0" - 2.0 lb/ft TO 2.5 lb/ft
B. TYPE 3 OBJECT MARKER POST 9'-0" - 2.5 lb/ft TO 3.0 lb/ft
C. DISTANCE REFERENCE SIGN POST 10'-0", 11'-0", & 12'-0" - 3.0 lb/ft TO 3.5 lb/ft
- UNIT PRICE OF DELINEATORS AND TYPE 3 OBJECT MARKERS SHALL INCLUDE COST OF POST. DISTANCE REFERENCE SIGN POST WILL BE PAID FOR PER FOOT.
- RADIUS IN BENDS OF POST CROSS SECTION NOT TO EXCEED 13/32" FOR HOT ROLLED SECTION.
- GROUND PLATE NOT REQUIRED ON U-SECTION POST.

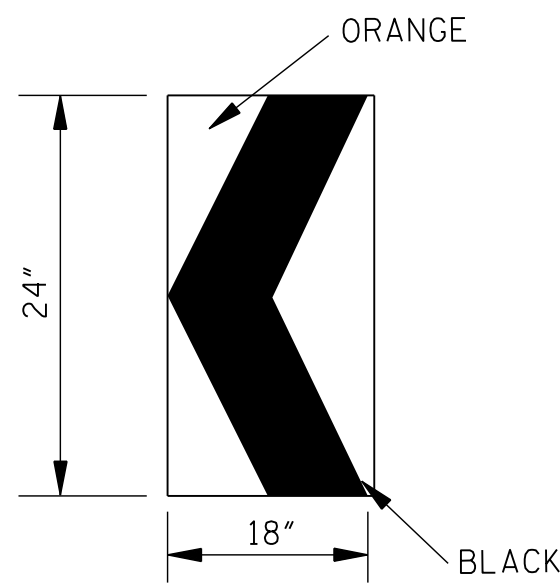
MISSISSIPPI DEPARTMENT OF TRANSPORTATION				PRELIMINARY NOT FOR CONSTRUCTION	
TYPICAL INSTALLATION AND DETAILS OF DELINEATORS AND DISTANCE REFERENCE SIGNS				WORKING NUMBER SDSN-8	
PROJ. NO.: UPDATE COUNTY: UPDATE				SHEET NUMBER \$PG\$	
DATE	DESIGN TEAM	UPDATE	CHECKED	UPDATE	DATE
BY	REVISION				

STATE	PROJECT NO.
MISS.	UPDATE



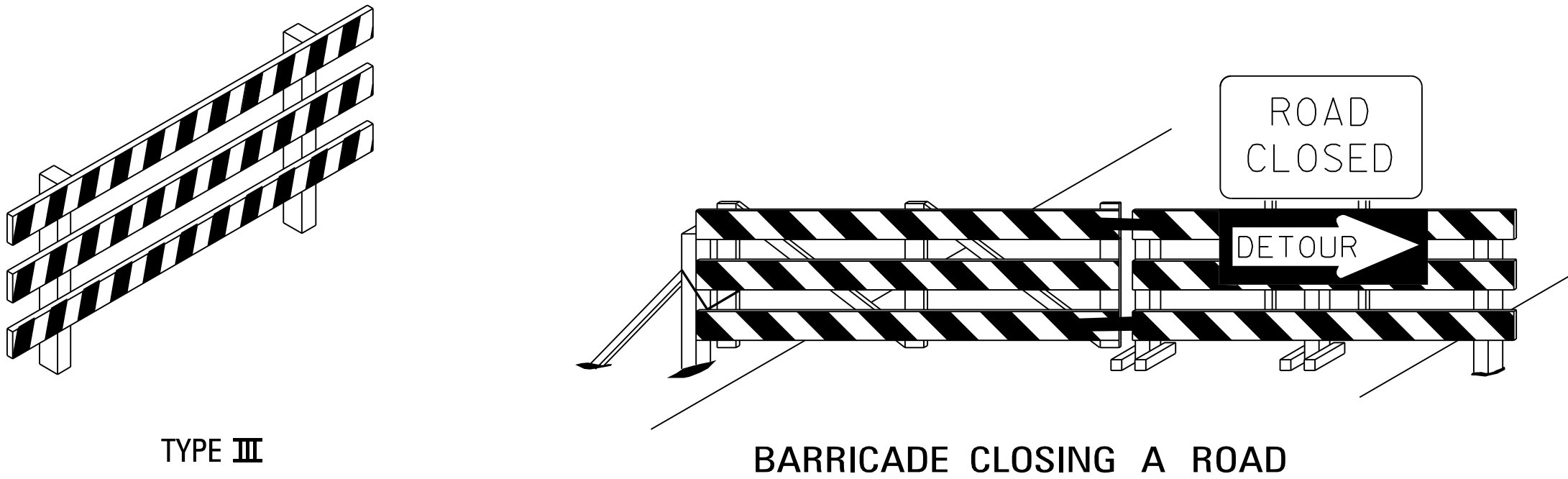
STANDARD BARRICADES

1. A TYPE I BARRICADE CONSISTS OF ONE (1) HORIZONTAL RAIL SUPPORTED BY A DEMOUNTABLE FRAME OR A LIGHT "A" FRAME. A TYPE I BARRICADE NORMALLY WOULD BE USED ON CONVENTIONAL ROADS OR URBAN STREETS AND ARTERIALS.
2. A TYPE II BARRICADE CONSISTS OF TWO (2) HORIZONTAL RAILS ON A LIGHT "A" FRAME. TYPE II BARRICADES ARE INTENDED FOR USE ON EXPRESSWAYS AND FREEWAYS AND OTHER HIGH-SPEED ROADWAYS.
3. TYPE I AND TYPE II BARRICADES ARE INTENDED FOR USE WHERE THE HAZARD IS RELATIVELY SMALL AS, FOR EXAMPLE, ON CITY STREETS, OR FOR THE MORE OR LESS CONTINUOUS DELIMITING OF A RESTRICTED ROADWAY, OR FOR TEMPORARY DAYTIME USE.
4. A TYPE III BARRICADE CONSISTS OF THREE (3) HORIZONTAL RAILS SUPPORTED BY FIXED POSTS, A RIGID SKID, A HEAVY DEMOUNTABLE FRAME OR A HEAVY, HINGED "A" FRAME.
5. TYPE III BARRICADES ARE INTENDED FOR USE ON CONSTRUCTION AND MAINTENANCE PROJECTS AS WING BARRICADES AND AT ROAD CLOSURES, WHERE THEY MUST REMAIN IN PLACE FOR EXTENDED PERIODS.
6. THE MARKING FOR BARRICADE RAILS SHALL BE ORANGE AND WHITE (SLOPING DOWNWARD AT AN ANGLE OF 45° IN THE DIRECTION TRAFFIC IS TO PASS).
7. DO NOT PLACE SANDBAGS OR OTHER DEVICES TO PROVIDE MASS ON THE BOTTOM RAIL THAT WILL BLOCK VIEW OR RAIL FACE.
8. FOR ADDITIONAL INFORMATION OR DETAILS, SEE MUTCD, LATEST EDITION.
9. BARRICADES ARE CLASSIFIED BY FHWA AS CATEGORY II WORK ZONE DEVICES WHICH REQUIRE CRASHWORTHINESS ACCEPTANCE LETTERS. TO DATE, 2-IN. THICK TIMBER RAILS HAVE NOT BEEN SUCCESSFULLY CRASH TESTED. A LIST OF CRASHWORTHY BARRICADES AND OTHER CATEGORY II DEVICES CAN BE FOUND ON FHWA'S WEBSITE: http://safety.fhwa.dot.gov/roadway_dept/policy_guide/road_hardware/cat2.cfm



CHEVRON SIGN
DETAIL

1. A CHEVRON SIGN CONSISTS OF A BLACK CHEVRON TYPE MARKING ON AN ORANGE BACKGROUND AND SHALL POINT IN THE DIRECTION OF TRAFFIC FLOW.
2. THE CHEVRON SIGN SHALL BE MOUNTED ON FIXED POST OR RIGID SKID.
3. CHEVRON SIGNS MAY BE USED TO SUPPLEMENT OTHER STANDARD DEVICES WHERE ONE OR MORE LANES ARE CLOSED FOR CONSTRUCTION OR MAINTENANCE. THEY SHALL BE PLACED APPROXIMATELY 2'-0" BEHIND THE LANE TRANSITION STRIPE.

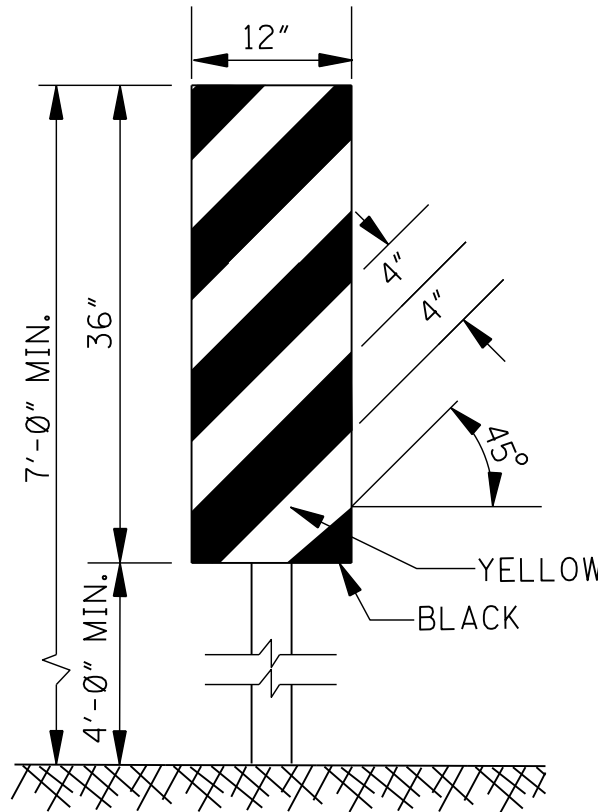


BARRICADE CLOSING A ROAD

BARRICADE CHARACTERISTICS

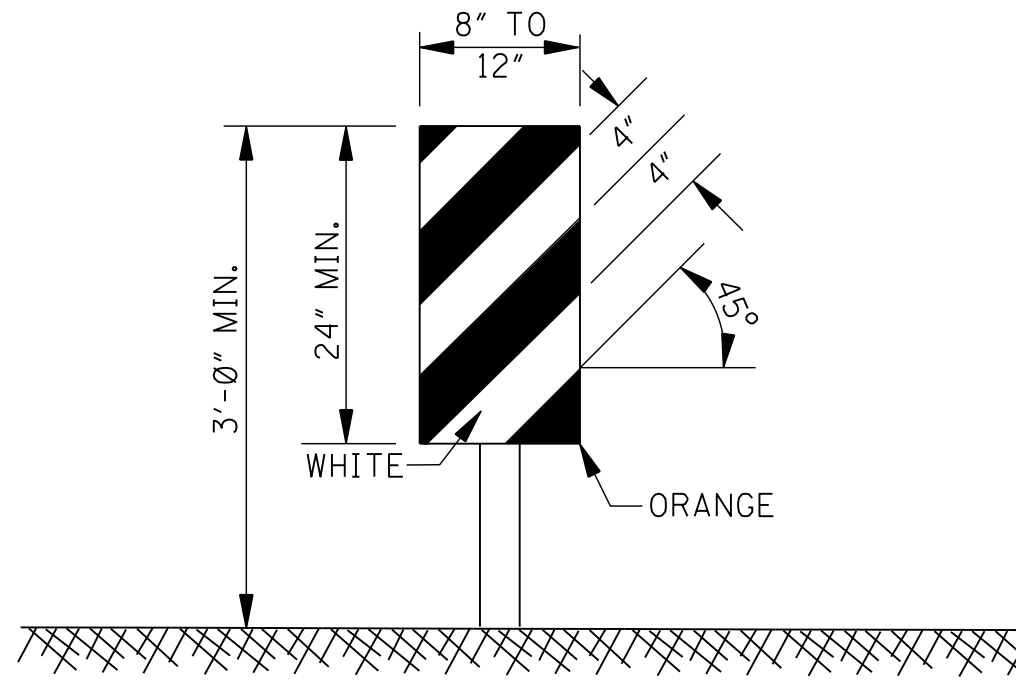
	I	II	III
WIDTH OF RAIL * *	8" MIN. - 12" MAX.	8" MIN. - 12" MAX.	8" MIN. - 12" MAX.
LENGTH OF RAIL * *	24" MIN.	24" MIN.	48" MIN.
WIDTH OF STRIPE *	6"	6"	6"
HEIGHT	36" MIN.	36" MIN.	60" MIN.
NUMBER OF REFLECTORIZED RAIL FACES	2 (ONE EACH DIRECTION)	4 (TWO EACH DIRECTION)	3 IF FACING TRAFFIC IN ONE DIRECTION 6 IF FACING TRAFFIC IN TWO DIRECTIONS
TYPE OF FRAME	LIGHT	LIGHT "A" FRAME	POST OR SKID

- * 1. FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED.
- ** 2. BARRICADES INTENDED FOR USE ON EXPRESSWAYS, FREEWAYS AND OTHER HIGH SPEED ROADWAYS, SHALL HAVE A MINIMUM OF 270 in² OF REFLECTIVE AREA FACING TRAFFIC.



TYPE 3 OBJECT MARKER
(OM-3R)

1. TYPE 3 OBJECT MARKERS SHALL BE USED AT ALL EXPOSED BRIDGE ABUTMENTS AND AT OTHER LOCATIONS AS DEEMED NECESSARY BY THE ENGINEER.
2. THE OM-3R IS SHOWN. THE OM-3L IS SIMILAR EXCEPT THE STRIPES SLOPE DOWNWARD FROM THE UPPER LEFT SIDE TO THE LOWER RIGHT SIDE AND SHALL BE PLACED ON THE LEFT SIDE OF THE OBJECT.
3. THE INSIDE EDGE OF THE MARKER SHALL BE IN LINE WITH THE INNER EDGE OF THE OBSTRUCTION.

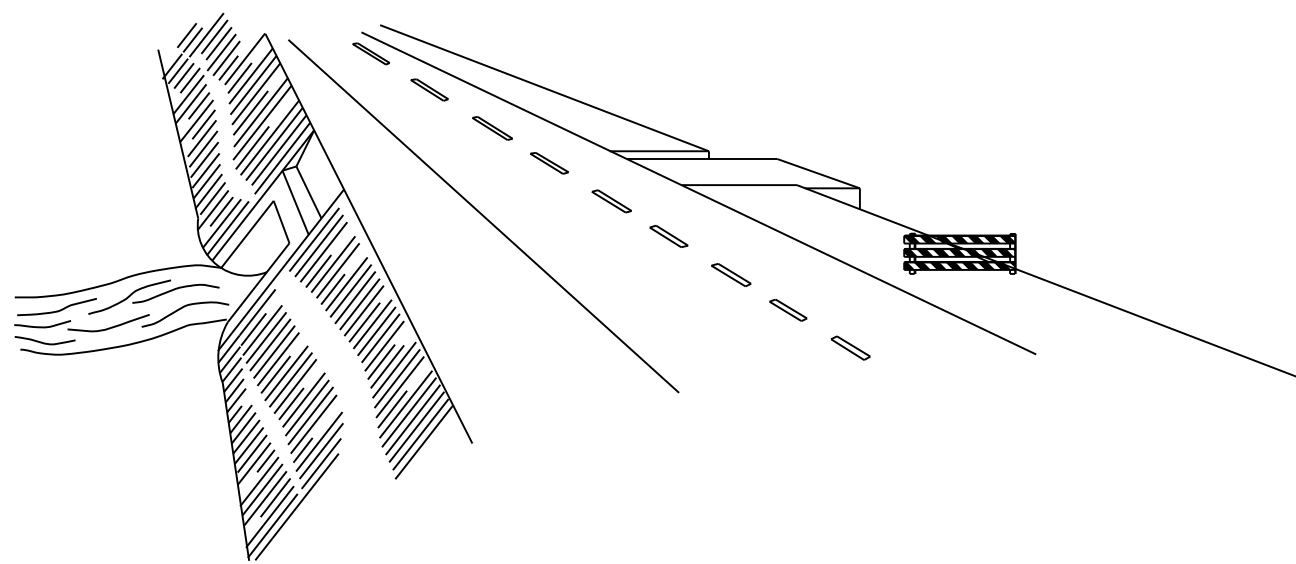


VERTICAL PANEL

1. VERTICAL PANELS CONSIST OF AT LEAST ONE PANEL 8" TO 12" IN WIDTH AND A MINIMUM OF 24" IN HEIGHT.
2. THE DIAGONAL STRIPES SHALL SLOPE DOWNWARD IN THE DIRECTION THAT TRAFFIC IS TO PASS THE PANEL. THE PANELS SHALL BE MOUNTED WITH THE TOP A MINIMUM OF 36" ABOVE THE ROADWAY ON A SINGLE LIGHTMASS POST.
3. VERTICAL PANELS USED ON EXPRESSWAYS, FREEWAYS AND OTHER HIGH-SPEED ROADWAYS SHALL HAVE A MINIMUM OF 270 in² OF RETROREFLECTIVE AREA FACING TRAFFIC.
4. FOR TWO-WAY TRAFFIC OPERATIONS, BACK-TO-BACK PANELS SHALL BE USED.

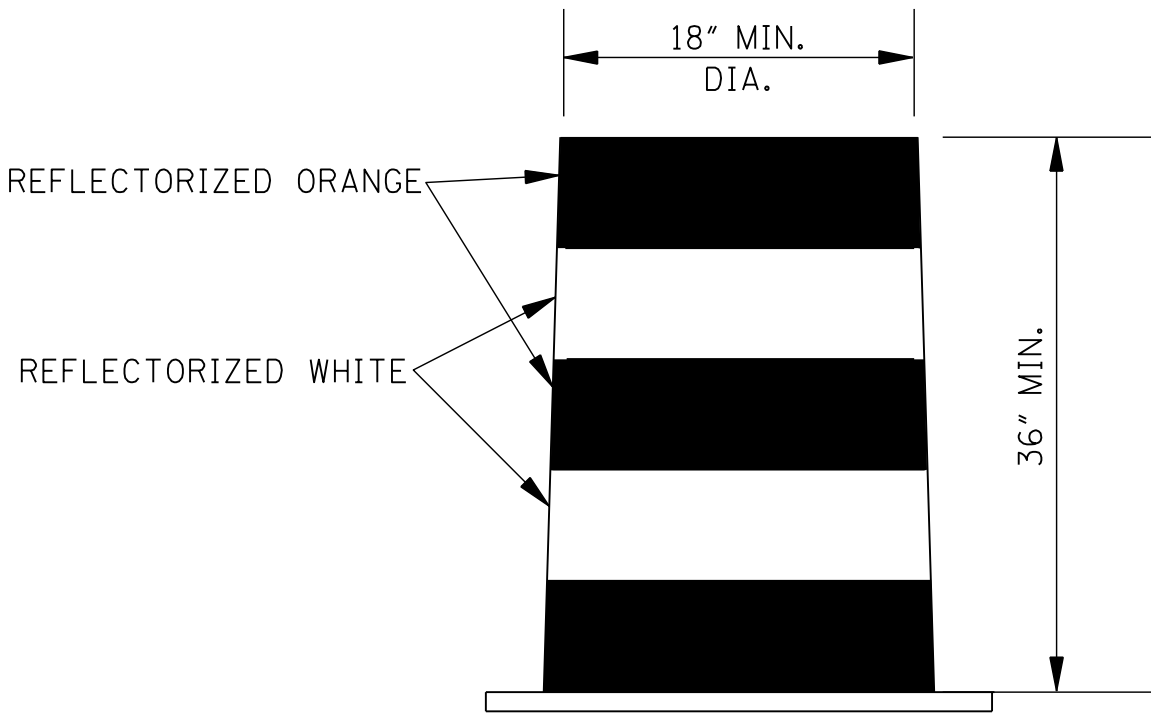
GENERAL NOTES:

1. MARKINGS ON ALL DEVICES SHOWN ON THIS SHEET SHALL BE HIGH INTENSITY REFLECTIVE SHEETING.
2. THE TRAFFIC CONTROL PLAN WILL LIST THE VARIOUS TRAFFIC CONTROL DEVICES REQUIRED FOR EACH PROJECT.



WING BARRICADES

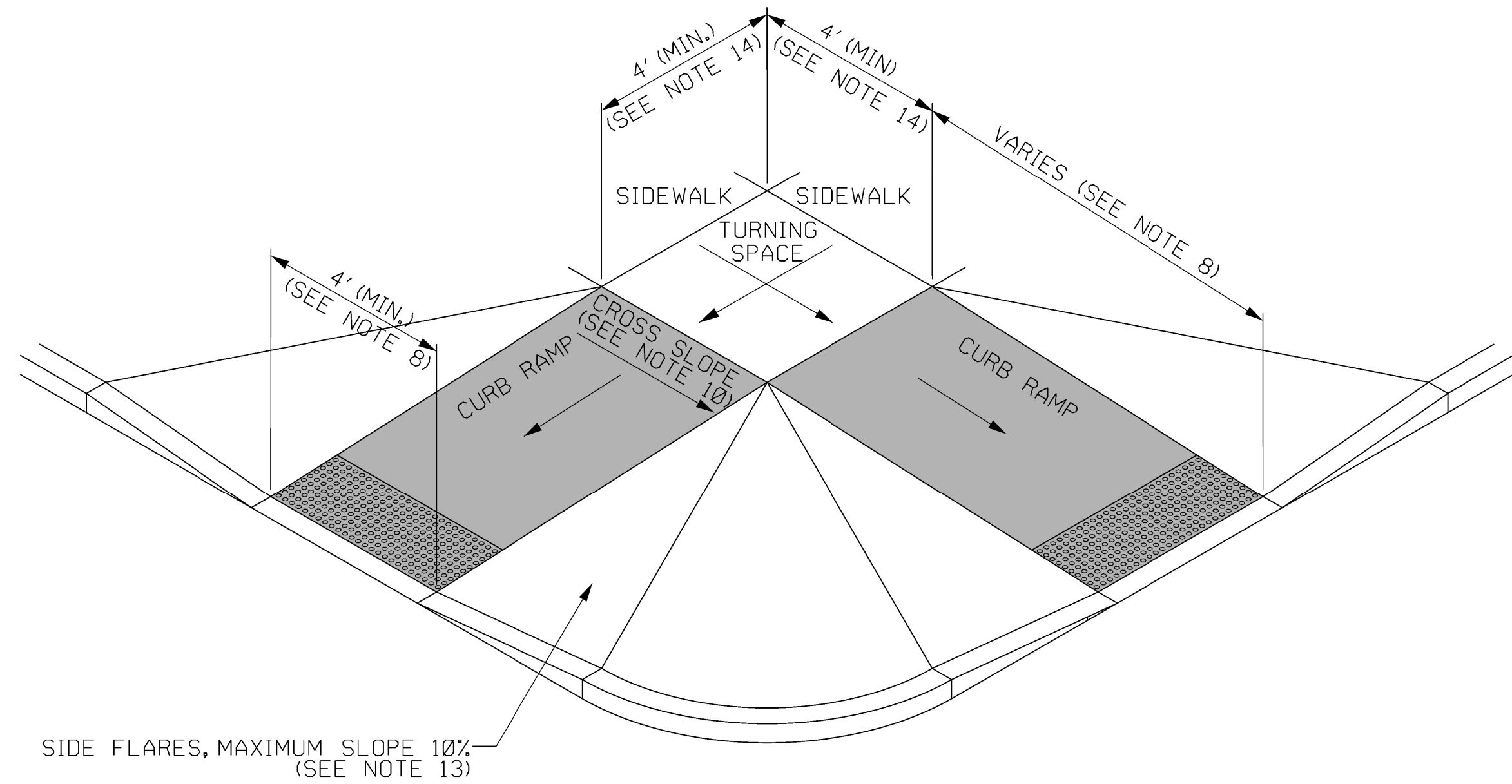
1. WING BARRICADES ARE TYPE III BARRICADES ERECTED ON THE SHOULDER ON ONE OR BOTH SIDES OF THE PAVEMENT TO GIVE THE SENSATION OF A NARROWING OR RESTRICTED ROADWAY. WING BARRICADES MAY BE USED AS A MOUNTING FOR THE ADVANCE WARNING SIGNS OR FLASHERS.
2. WING BARRICADES SHOULD BE USED:
A. IN ADVANCE OF A CONSTRUCTION PROJECT EVEN WHEN NO PART OF THE ROADWAY IS ACTUALLY CLOSED.
B. IN ADVANCE OF ALL BRIDGE OR CULVERT WIDENING OPERATIONS.



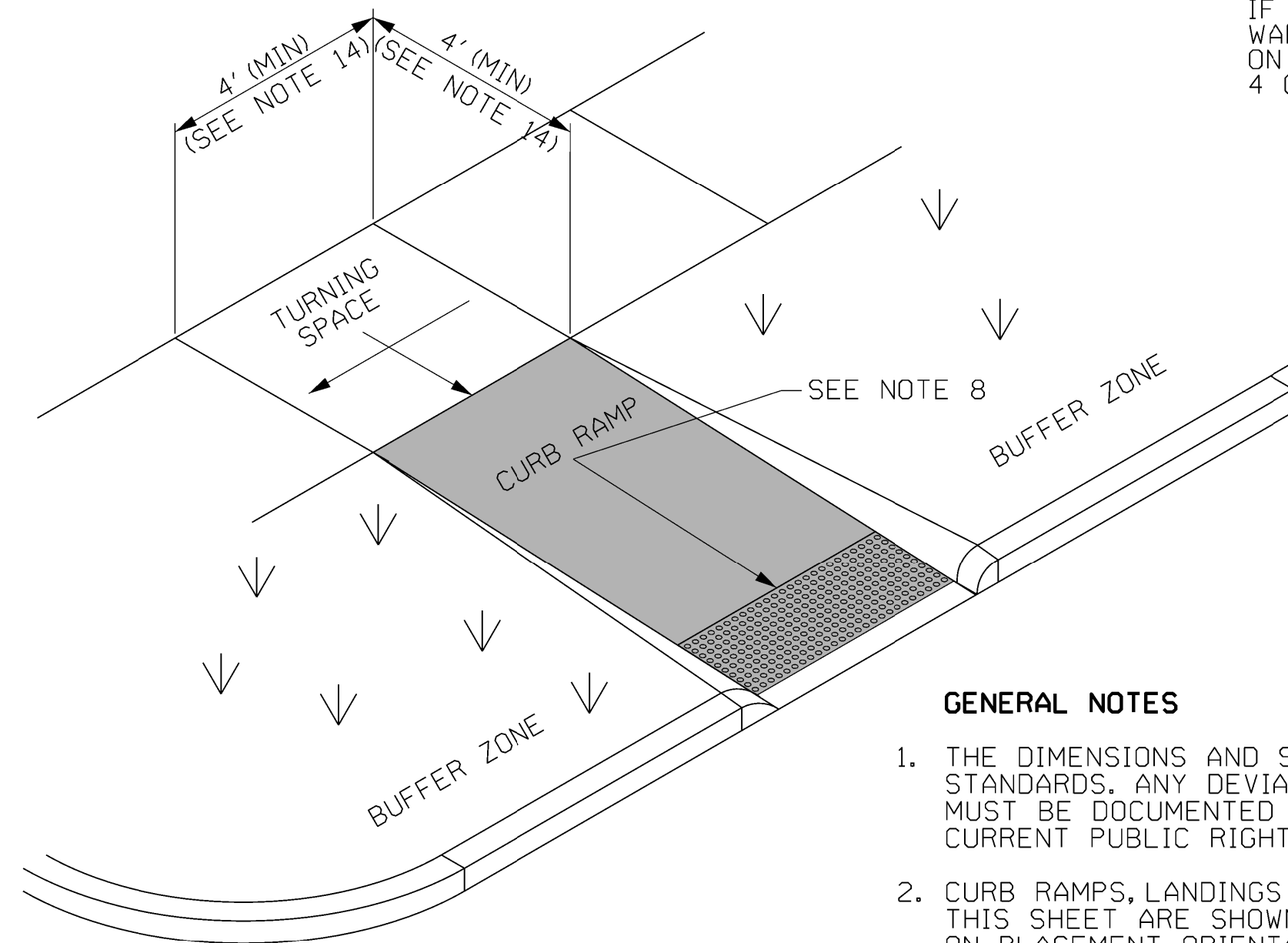
PLASTIC DRUM STRIPING DETAIL

1. PLASTIC DRUMS SHALL BE ON END AND USED AS AN EXPEDIENT METHOD FOR TRAFFIC CHANNELIZATION. THE COLOR AND MARKING OF DRUMS SHALL BE CONSISTENT WITH MARKING STANDARDS FOR BARRICADE. THE PREDOMINANT COLOR ON DRUMS SHALL BE ORANGE WITH FOUR (4) REFLECTORIZED, HORIZONTAL, CIRCUMFERENTIAL STRIPES (2 ORANGE & 2 WHITE) 6" WIDE.
2. DRUMS SHOULD NEVER BE PLACED IN THE ROADWAY WITHOUT WARNING SIGNS.
3. WHERE PRACTICAL PLASTIC DRUMS SHALL BE PLACED NO CLOSER THAN 3'-0" FROM THE EDGE OF TRAVELED LANE.

				MISSISSIPPI DEPARTMENT OF TRANSPORTATION			
				HIGHWAY SIGN AND BARRICADE DETAILS FOR CONSTRUCTION PROJECTS			
				PRELIMINARY NOT FOR CONSTRUCTION			
				WORKING NUMBER SDTCP-10			
				SHEET NUMBER \$PG\$			
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				FILENAME: rwd.cel			
				DESIGN TEAM UPDATE		CHECKED UPDATE DATE UPDATE	
				DATE			
				REVISION			
				BY			

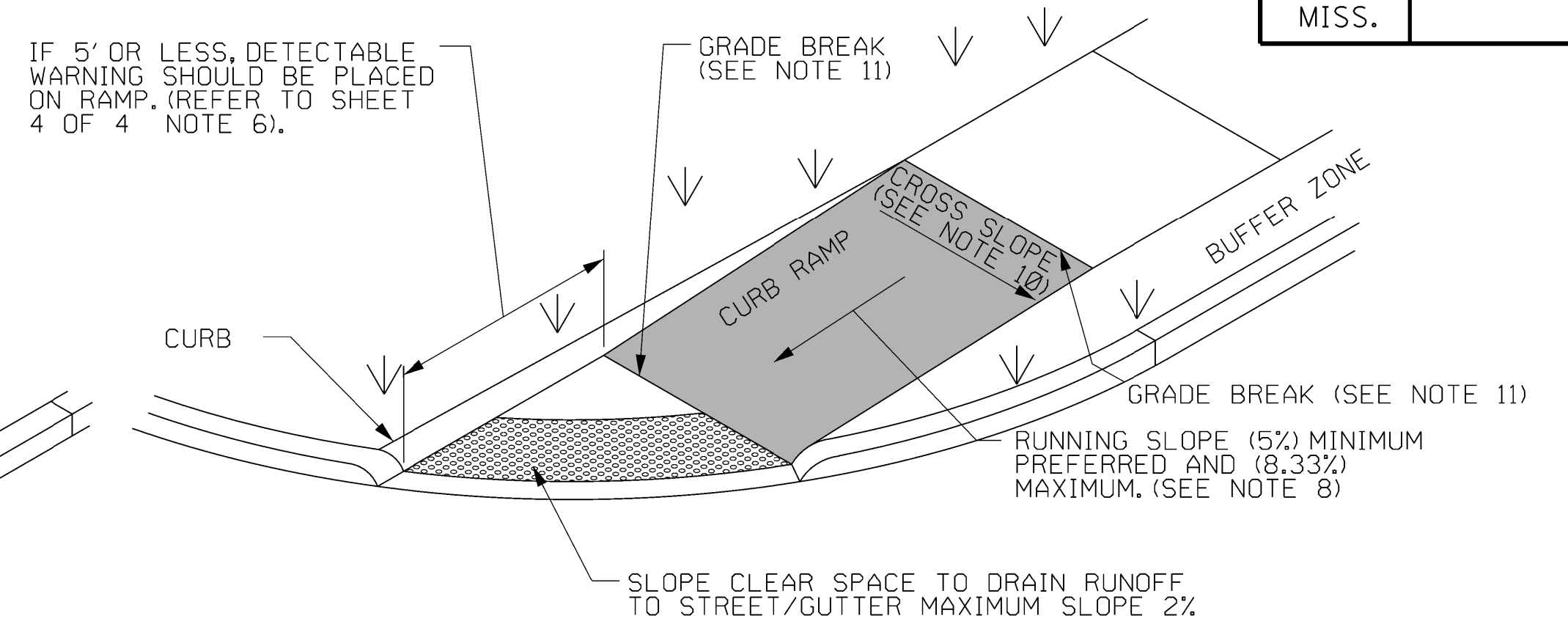


TYPE 1 - PERPENDICULAR CURB RAMP



TYPE 2 - PERPENDICULAR RETURNED CURB RAMP

SIDES OF CURB RAMPS MAY BE RETURNED, PROVIDING USEFUL DIRECTIONAL CUES, IF PROTECTED FROM CROSS TRAVEL BY LANDSCAPING, STREET FURNITURE, POLES, OR EQUIPMENT.



TYPE 3 - ALTERNATE PERPENDICULAR RETURNED CURB RAMP

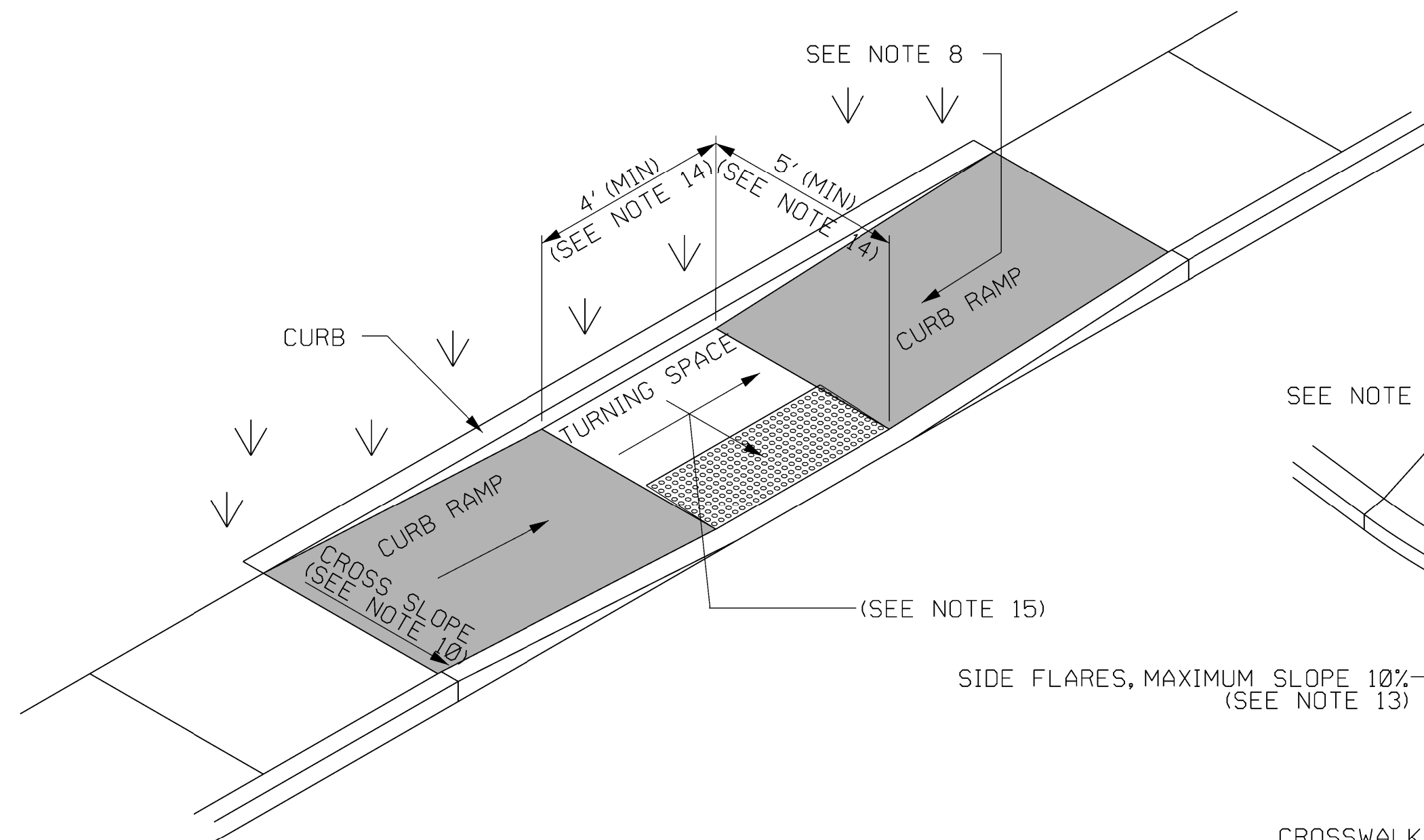
GENERAL NOTES

1. THE DIMENSIONS AND SLOPES PRESENTED IN THE DETAILS ARE THE MINIMUM NECESSARY TO COMPLY WITH THE ADA AND MDOT STANDARDS. ANY DEVIATION LESS THAN THE MINIMUM WIDTH OR GREATER THAN THE MAXIMUM SLOPE FROM THESE STANDARDS MUST BE DOCUMENTED WITH THE STANDARDS BEING MET TO THE GREATEST EXTENT PRACTICABLE AND CONSISTENT WITH THE MOST CURRENT PUBLIC RIGHT-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG).
2. CURB RAMPS, LANDINGS AND BLENDED TRANSITIONS MAY REQUIRE THE USE OF DETECTABLE WARNINGS. DETECTABLE WARNINGS ON THIS SHEET ARE SHOWN FOR ILLUSTRATION ONLY. REFER TO THE DETECTABLE WARNING DETAILS ON SHEET 4 OF 4 FOR DETAILS ON PLACEMENT, ORIENTATION & DIMENSIONS.
3. THE LOCATION, ORIENTATION, AND TYPE OF CURB RAMPS SHALL BE AS SHOWN IN THE PLANS.
4. ANY COMBINATION OF PERPENDICULAR, PERPENDICULAR RETURNED, AND PARALLEL CURB RAMPS MAY BE USED TO ACHIEVE AN ACCESSIBLE DESIGN AS LONG AS THE BASIC REQUIREMENTS FOR CURB RAMPS ARE MET.
5. CURB RAMPS SHALL BE PAID FOR AS SIDEWALK.
6. THE THICKNESS OF THE CURB RAMP SHALL BE A MINIMUM OF 4".
7. BEYOND THE BOTTOM GRADE BREAK, A CLEAR SPACE OF 4' MINIMUM BY 4' MINIMUM SHALL BE PROVIDED WITHIN THE WIDTH OF THE PEDESTRIAN STREET CROSSING AND WHOLLY OUTSIDE THE PARALLEL VEHICLE TRAVEL LANE.

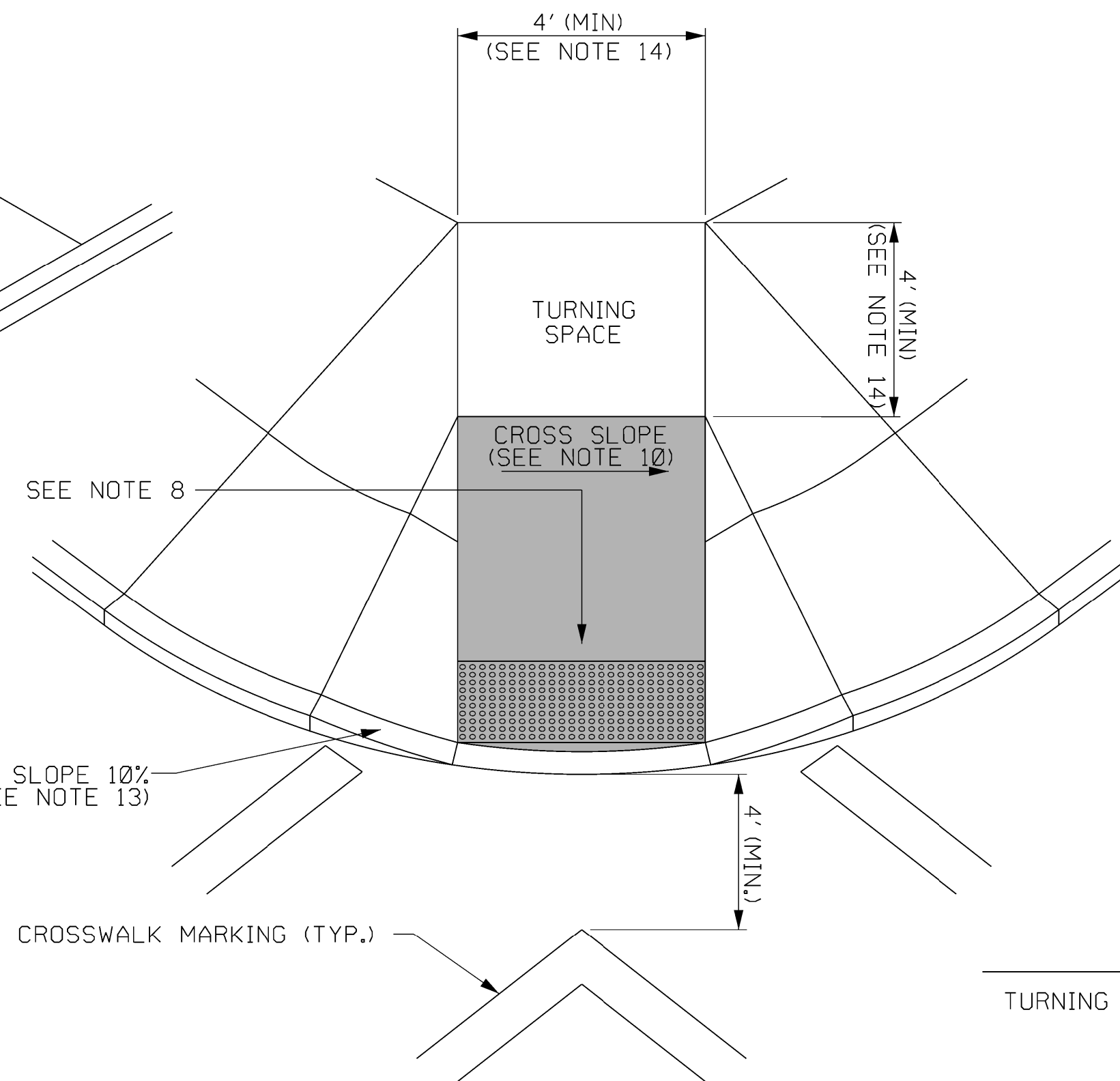
CURB RAMP NOTES:

8. THE CLEAR WIDTH OF CURB RAMP RUNS (EXCLUDING ANY FLARED SIDES), BLENDED TRANSITIONS, AND TURNING SPACES SHALL BE THE WIDTH OF THE SIDEWALK, OR 4' MINIMUM. THE RUNNING SLOPE OF A CURB RAMP SHALL BE 5% MINIMUM, AND 8.33% MAXIMUM (7.1% PREFERRED). THE RUNNING SLOPE OF BLENDED TRANSITIONS SHALL BE 5% MAXIMUM.
 9. WHERE THE SLOPE OF THE ROADWAY EXCEEDS 8.33%, THE CURB RAMP LENGTH IS THE LENGTH NECESSARY TO MEET THE EXISTING SIDEWALK. IT IS NOT NECESSARY THAT THE RAMP EXCEED 15'.
 10. THE CROSS SLOPE OF CURB RAMPS, BLENDED TRANSITIONS, AND TURNING SPACES SHALL BE 2% MAXIMUM (1.5% PREFERRED). AT PEDESTRIAN STREET CROSSINGS WITHOUT YIELD OR STOP CONTROL AND AT MIDBLOCK PEDESTRIAN STREET CROSSINGS, THE CROSS SLOPE IS PERMITTED TO EQUAL THE STREET OR HIGHWAY GRADE.
 11. GRADE BREAKS AT THE TOP AND BOTTOM OF CURB RAMP RUNS SHALL BE PERPENDICULAR TO THE DIRECTION OF THE RAMP RUN. GRADE BREAKS SHALL NOT BE PERMITTED ON THE SURFACE OF RAMP RUNS AND TURNING SPACES. SURFACE SLOPES THAT MEET AT GRADE BREAKS SHALL BE FLUSH.
 12. RAMP TRANSITIONS BETWEEN WALKS, TURNING SPACES, LANDINGS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT VERTICAL CHANGES.
 13. WHERE A PEDESTRIAN CIRCULATION PATH CROSSES THE CURB RAMP, FLARED SIDES SHALL BE SLOPED 10% MAXIMUM, MEASURED PARALLEL TO THE CURB LINE.
- TURNING SPACE NOTES:**
14. A TURNING SPACE 4' MINIMUM BY 4' MINIMUM SHALL BE PROVIDED AT THE TOP OF PERPENDICULAR RAMPS AND AT THE BOTTOM OF PARALLEL RAMPS. TURNING SPACES ARE ALLOWED TO OVERLAP OTHER TURNING SPACES AND CLEAR SPACES. IF THE TURNING SPACE IS CONSTRAINED BY A CURB, WALL, OR OTHER OBSTRUCTION, THE TURNING SPACE SHALL BE 4' MINIMUM BY 5' MINIMUM, WITH THE 5' DIMENSION PROVIDED IN THE DIRECTION OF TRAVEL TOWARD THE CONSTRAINT.
 15. THE RUNNING SLOPE OF TURNING SPACES SHALL BE 2% MAXIMUM (1.5% PREFERRED). THE CROSS SLOPE OF TURNING SPACES SHALL BE 2% MAXIMUM (1.5% PREFERRED). AT PEDESTRIAN STREET CROSSINGS WITHOUT YIELD OR STOP CONTROL AND AT MIDBLOCK PEDESTRIAN STREET CROSSINGS, THE CROSS SLOPE SHALL BE PERMITTED TO EQUAL THE STREET OR HIGHWAY GRADE.
 16. BEYOND THE BOTTOM GRADE BREAK, A CLEAR SPACE 4' MINIMUM BY 4' MINIMUM SHALL BE PROVIDED WITHIN THE WIDTH OF THE PEDESTRIAN STREET CROSSING AND WHOLLY OUTSIDE THE PARALLEL VEHICLE TRAVEL LANE.
 17. THE COUNTER SLOPE OF THE GUTTER OR STREET AT THE FOOT OF CURB RAMP RUNS, BLENDED TRANSITIONS, AND TURNING SPACES SHALL BE 5% MAXIMUM. IT IS BEST PRACTICE TO PROVIDE A 2' LEVEL STRIP AT THE GUTTER IF THE GRADE BREAK EXCEEDS 11%.

TURNING SPACE NOTES:

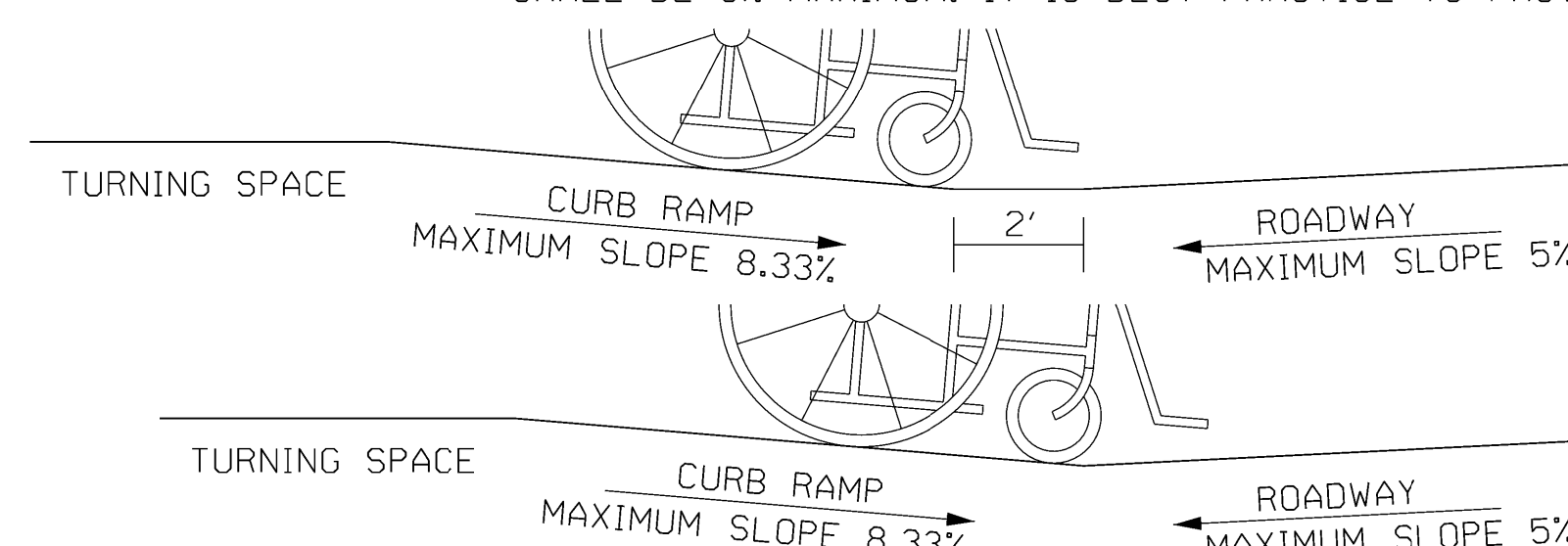


TYPE 4 - PARALLEL CURB RAMP
THE CURB BEHIND THE TURNING SPACE AND RAMPS IS NOT REQUIRED, BUT IS SUGGESTED FOR RETAINING SOIL AND PROVIDING AN EDGE FOR PEDESTRIANS WITH VISUAL IMPAIRMENTS.



TYPE 5 - DIAGONAL CURB RAMP

DIAGONAL CURB RAMPS ARE UNACCEPTABLE IN NEW CONSTRUCTION. THEY MAY BE USED FOR ALTERATIONS ONLY IF IT IS THE ONLY OPTION THAT WILL WORK.

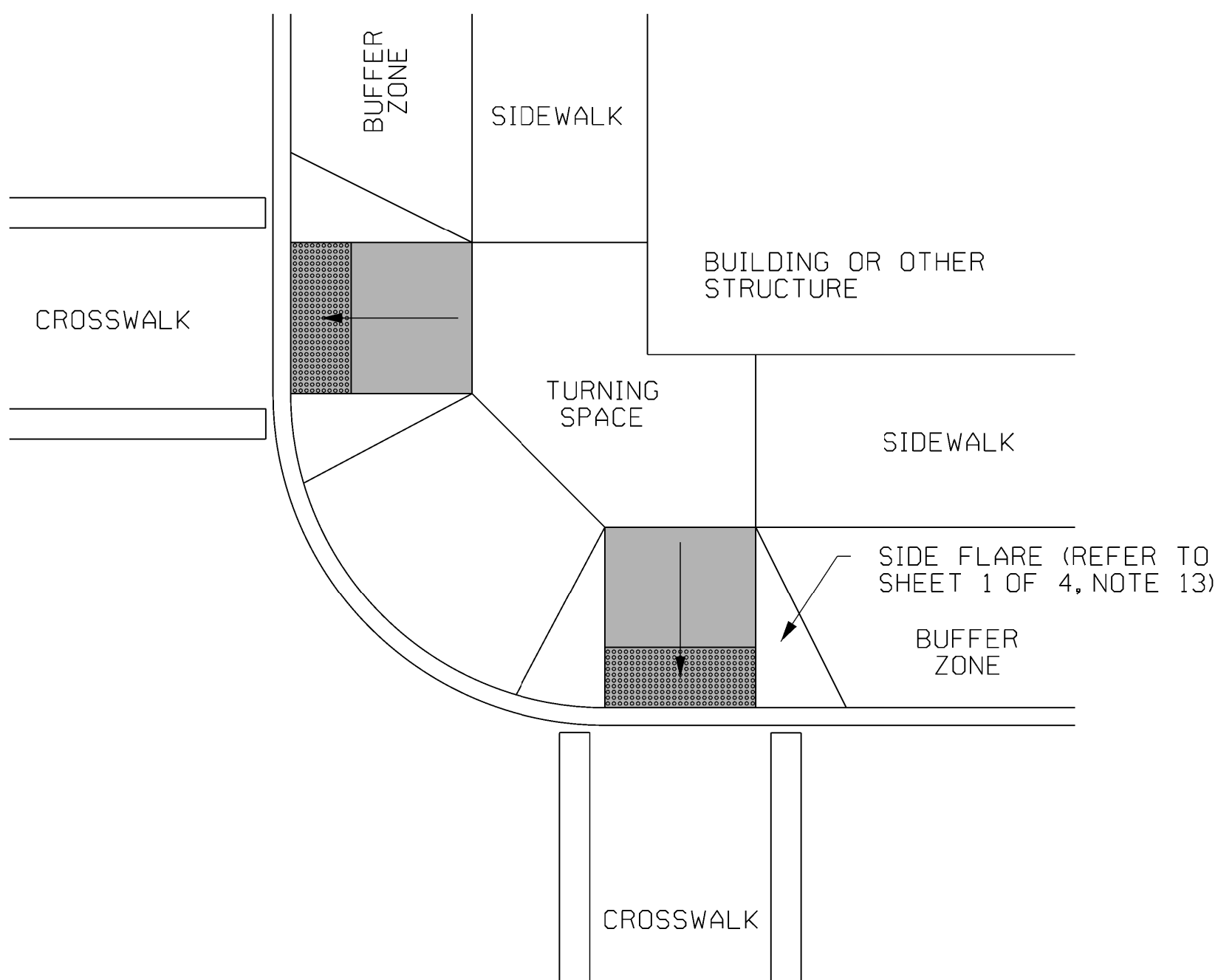


NOTE: THE COUNTER SLOPE OF THE GUTTER OR STREET AT THE FOOT OF CURB RAMP RUNS, BLENDED TRANSITIONS, AND TURNING SPACES SHALL BE 5% MAXIMUM. IT IS BEST PRACTICE TO PROVIDE A 2' LEVEL STRIP AT THE GUTTER IF THE GRADE BREAK EXCEEDS 11%.

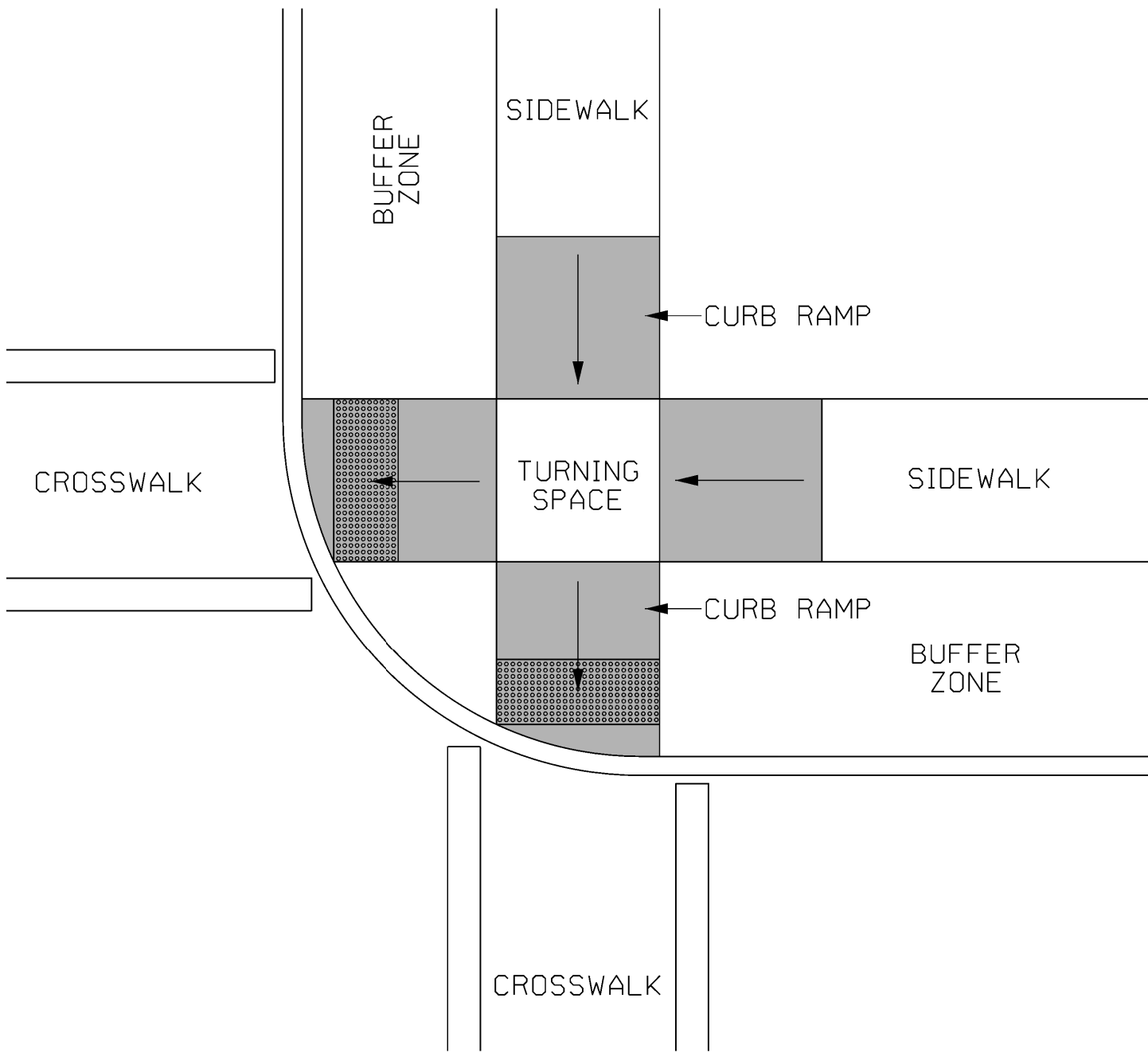
COUNTER SLOPE CONDITIONS

[illegible]

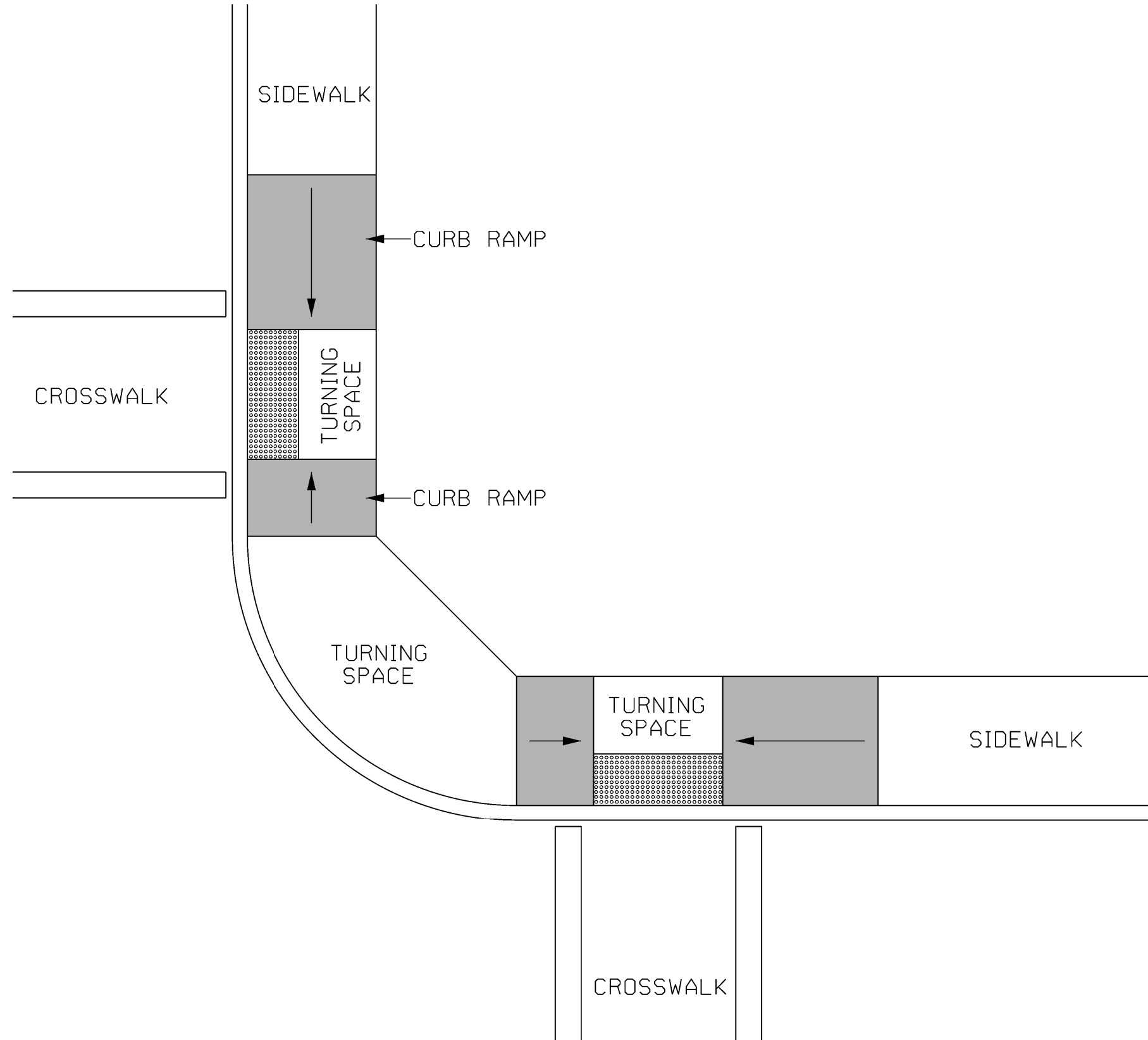
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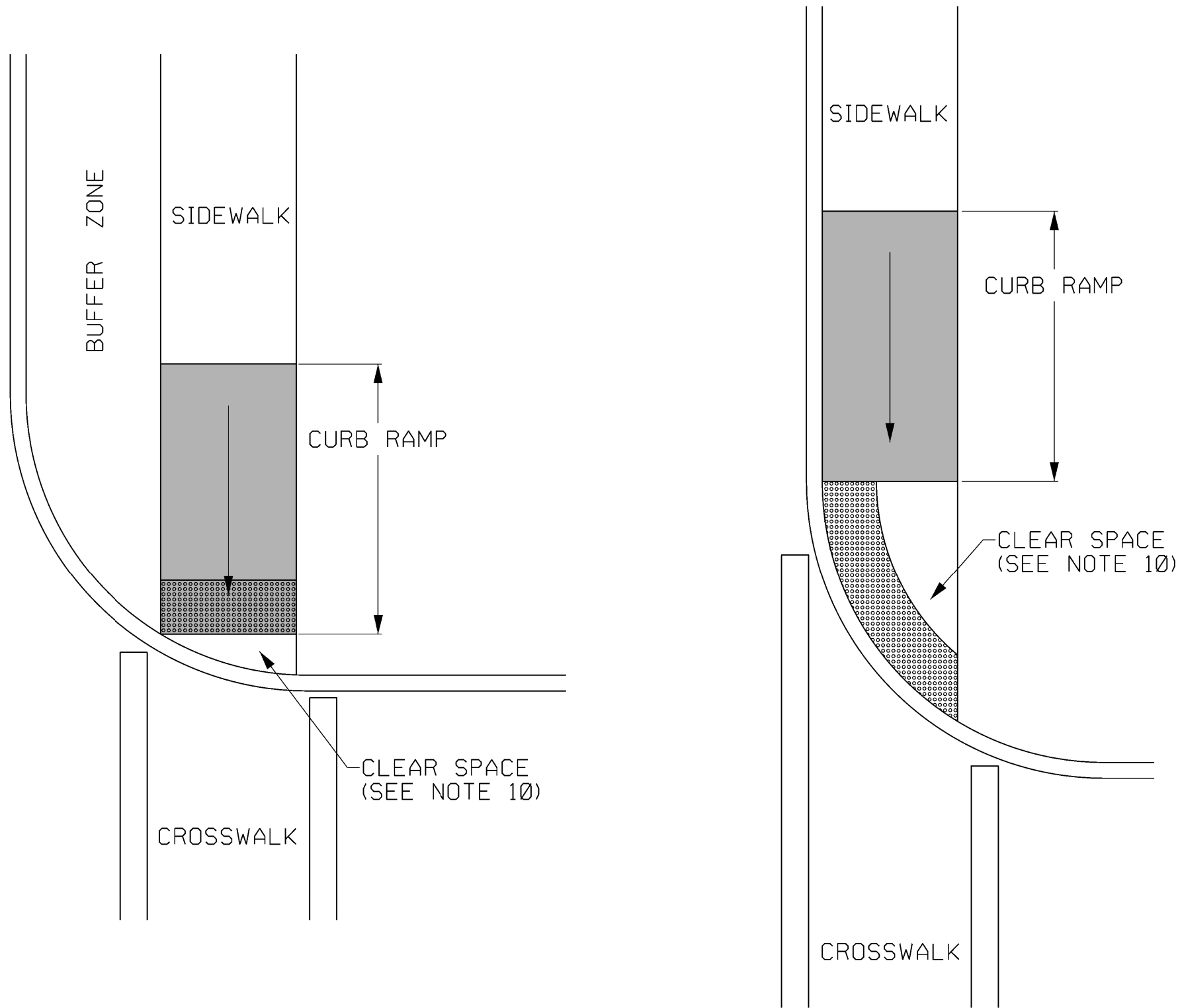
CURB RAMP CONFIGURATION: TYPE A



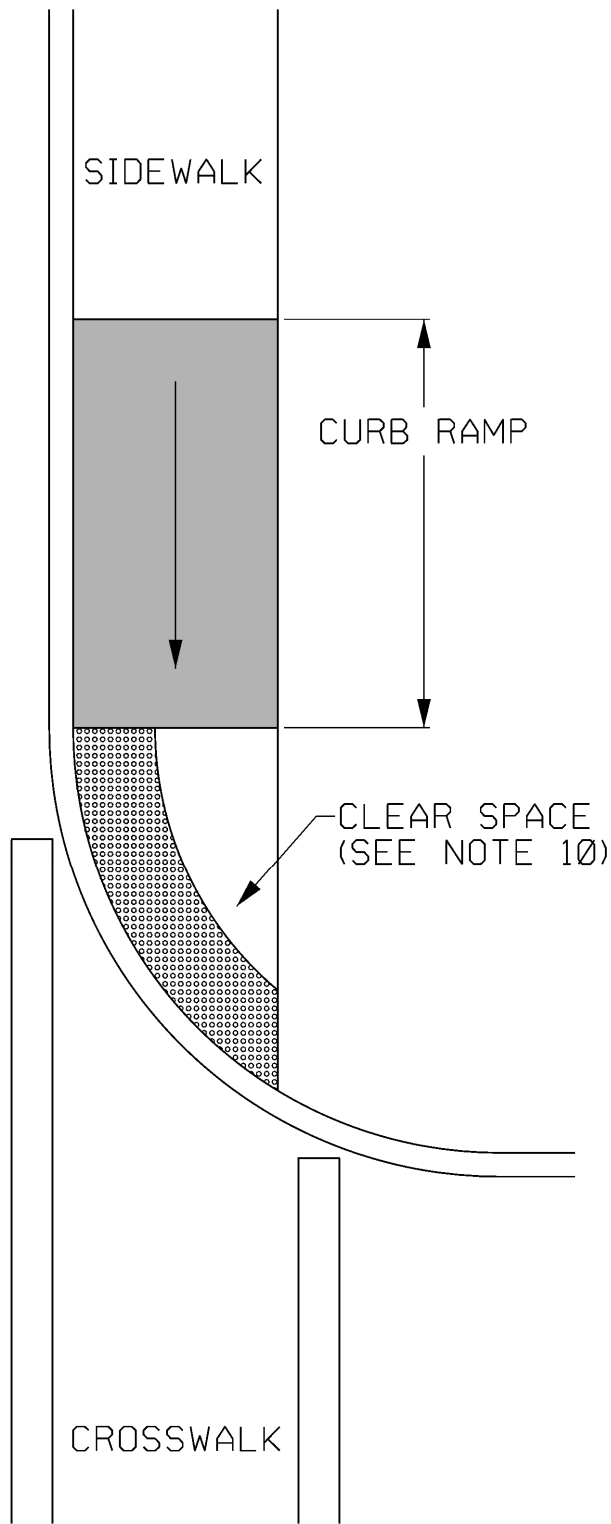
CURB RAMP CONFIGURATION: TYPE B



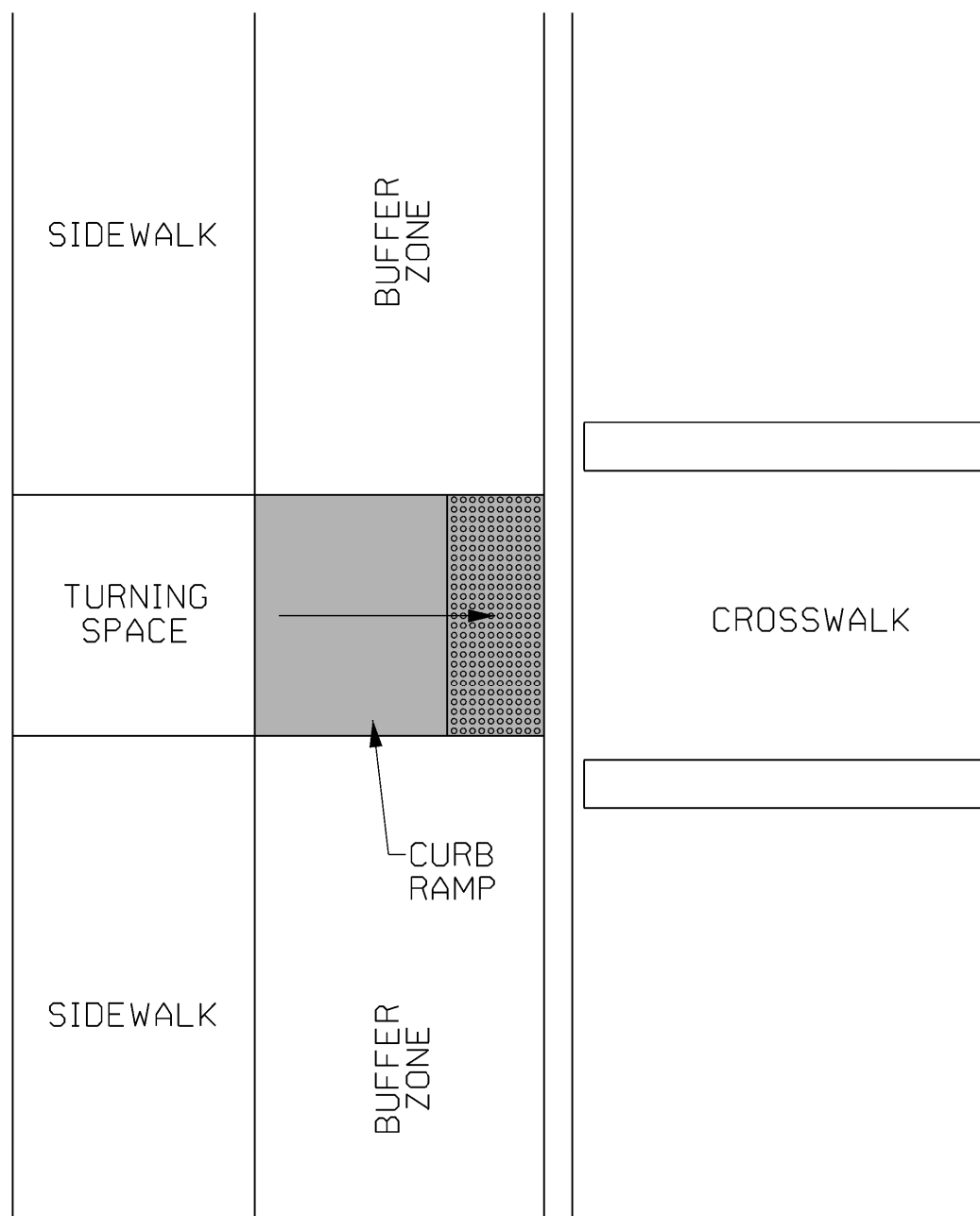
CURB RAMP CONFIGURATION: TYPE C



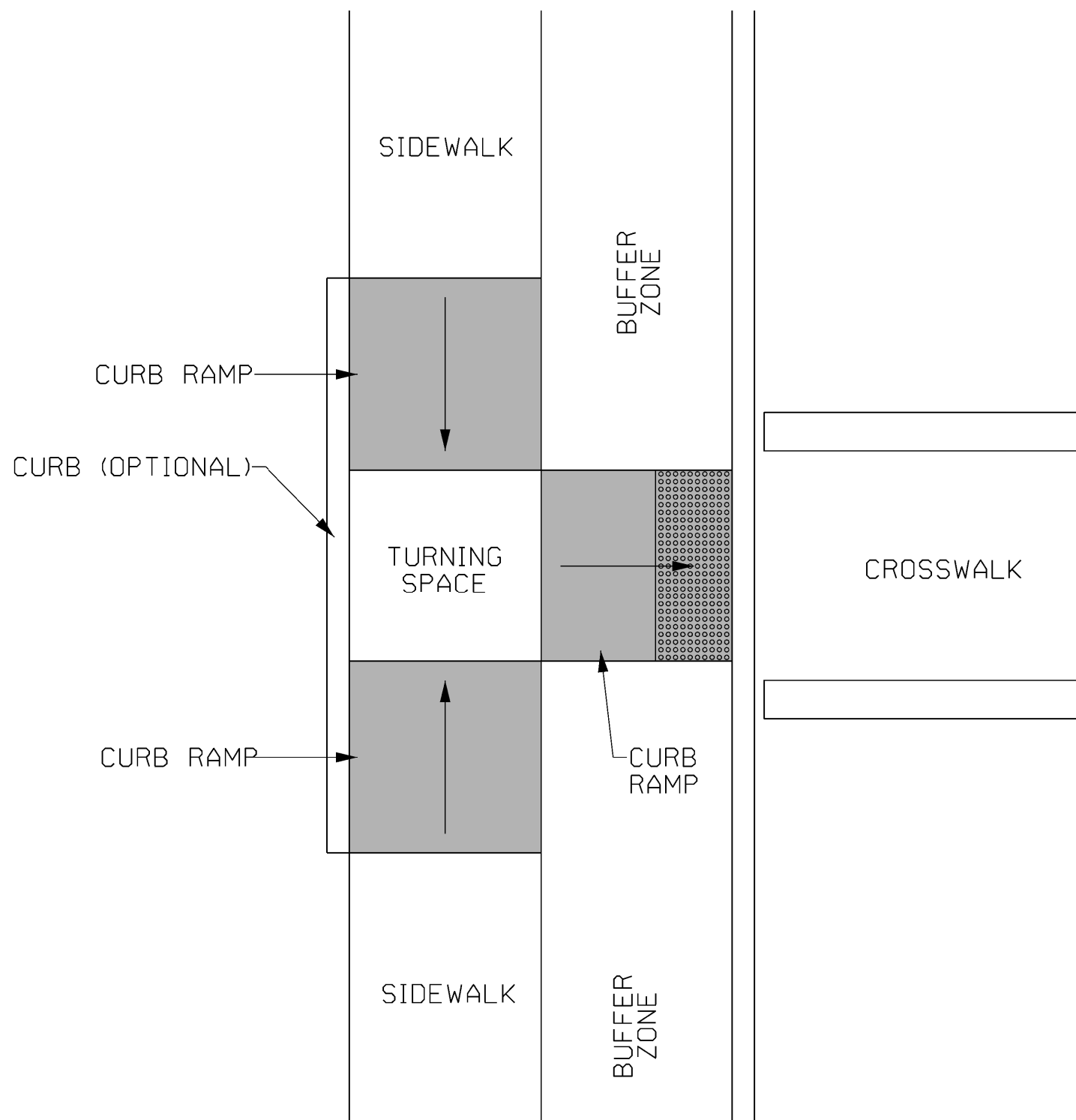
CURB RAMP CONFIGURATION: TYPE D



CURB RAMP CONFIGURATION: TYPE E



CURB RAMP CONFIGURATION: TYPE F



CURB RAMP CONFIGURATION: TYPE G
MID BLOCK CROSSING
THE CURB BEHIND THE TURNING SPACE AND RAMPS IS NOT REQUIRED, BUT IS SUGGESTED FOR RETAINING SOIL AND PROVIDING AN EDGE FOR PEDESTRIANS WITH VISUAL IMPAIRMENTS.

NOTES:

- FOR DIMENSIONS & GEOMETRIC VALUES REFER TO SHEET 1 OF 4.
- THE CONFIGURATIONS SHOWN GENERICALLY REPRESENT THE MOST COMMON SITUATIONS ENCOUNTERED. THEY ARE INTENDED TO PRESENT CURB RAMP DESIGN CONCEPTS. SITE CONDITIONS AT INDIVIDUAL LOCATIONS REQUIRE SPECIFIC DESIGNS. CURB RAMP DESIGNS MUST BE CONSISTENT WITH THE PROVISIONS OF SHEETS 1, 2, AND 3 OF 4.
- COORDINATE TRAFFIC CONTROL DEVICES, UTILITY LOCATIONS, SIGNS, STREET FURNITURE AND DRAINAGE TO ENSURE A CONTINUOUS PEDESTRIAN ACCESS ROUTE AT ALL CURB RAMP LOCATIONS. GUIDANCE FOR CROSSWALK MARKINGS AND TRAFFIC CONTROL DEVICES IS PROVIDED IN THE MUTCD.
- DETECTABLE WARNINGS SHOWN ON THIS SHEET ARE FOR ILLUSTRATION ONLY. FOR SPECIFIC PLACEMENT ORIENTATIONS AND DIMENSIONS REFER TO SHEET 4 OF 4.
- THE CROSS SLOPE OF CURB RAMPS, BLENDED TRANSITIONS, AND TURNING SPACES SHALL BE 2% MAXIMUM (1.5% PREFERRED). AT PEDESTRIAN STREET CROSSINGS WITHOUT YIELD OR STOP CONTROL AND AT MIDBLOCK PEDESTRIAN STREET CROSSINGS, THE CROSS SLOPE SHALL BE PERMITTED TO EQUAL THE STREET OR HIGHWAY GRADE.
- DIAGONAL CURB RAMPS ARE UNACCEPTABLE IN NEW CONSTRUCTION. THEY MAY BE USED FOR ALTERATIONS ONLY IF IT IS THE ONLY OPTION THAT WILL WORK.
- GRATES SHALL NOT BE LOCATED ON CURB RAMPS, BLENDED TRANSITIONS, TURNING SPACES, OR LANDINGS. ACCESS COVERS OF SIMILAR SURFACES SHALL COMPLY WITH APPLICABLE SURFACE REQUIREMENTS.
- UTILITIES, SIGNS, AND OTHER FIXED OBJECTS SHALL NOT BE PLACED ON A CURB RAMP, PEDESTRIAN ACCESS ROUTE, OR IN A MANNER THAT INTERFERES WITH THE USE OF THE CURB RAMP.
- THE SURFACE OF ALL CURB RAMPS SHALL BE STABLE, FIRM, AND SLIP RESISTANT. A COARSE BROOM FINISH RUNNING PERPENDICULAR TO THE SLOPE IS RECOMMENDED ON CONCRETE RAMP SURFACES, EXCLUSIVE OF THE DETECTABLE WARNING FIELDS.
- THERE SHALL BE A CLEAR SPACE AT THE BOTTOM OF THE ALTERNATE PERPENDICULAR RETURNED CURB RAMP. IT SHALL SLOPE TO DRAIN RUNOFF TO STREET/GUTTER AND HAVE A MAXIMUM SLOPE OF 2% (1.5% PREFERRED).
- TURNING SPACES MAY OVERLAP WITH ADJACENT TURNING SPACES OR A SINGLE TURNING SPACE MAY SERVE MULTIPLE CURB RAMPS.
- TURNING SPACES MAY OVERLAP WITH THE CLEAR GROUND SPACE REQUIRED AT PEDESTRIAN SIGNAL PUSH BUTTONS.
- THE CLEAR WIDTH OF PEDESTRIAN ACCESS ROUTES WITHIN MEDIANS AND PEDESTRIAN REFUGE ISLANDS SHALL BE 5' MINIMUM.
- BEYOND THE BOTTOM GRADE BREAK, A CLEAR SPACE OF 4' MINIMUM BY 4' MINIMUM SHALL BE PROVIDED WITHIN THE WIDTH OF THE PEDESTRIAN STREET CROSSING AND WHOLLY OUTSIDE THE PARALLEL VEHICLE TRAVEL LANE.

NOTE: REFER TO SHEET 4 OF 4, FOR
DETECTABLE WARNING DIMENSIONS
AND PLACEMENT ORIENTATION.

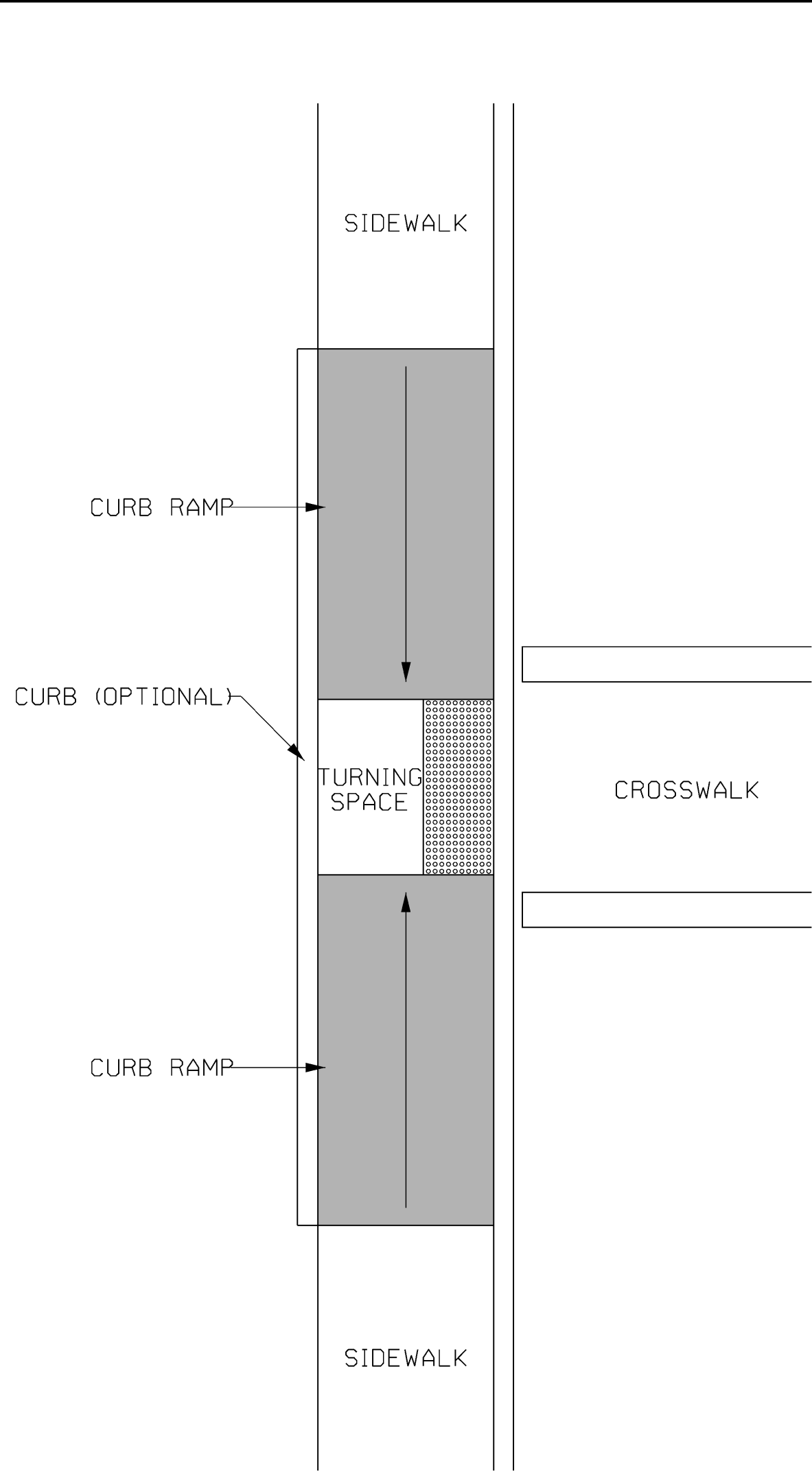
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				REVISION	CURB RAMPS
					PLACEMENT DETAILS
					WORKING NUMBER
					SDCCR-2
					SHEET NUMBER
					2
				DATE	FILENAME: ADARAMP.DGN
				DESIGN TEAM	CHECKED DATE 7/20/15

STATE	PROJECT NO.
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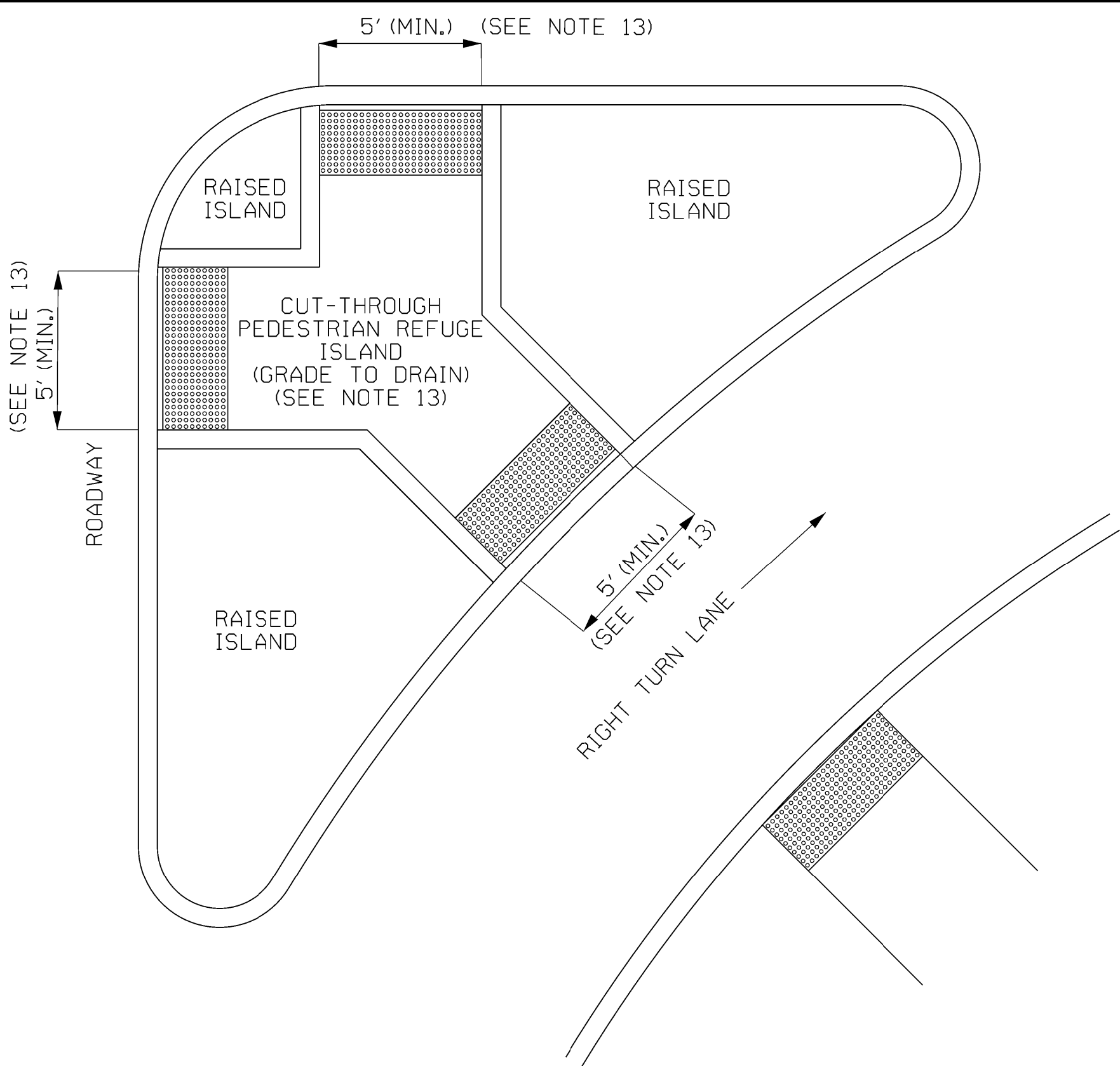
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- UTILITIES, SIGNS, AND OTHER FIXED OBJECTS MAY NOT BE PLACED ON A CURB RAMP, PEDESTRIAN ACCESS ROUTE, OR IN A MANNER THAT INTERFERES WITH THE USE OF THE CURB RAMP.
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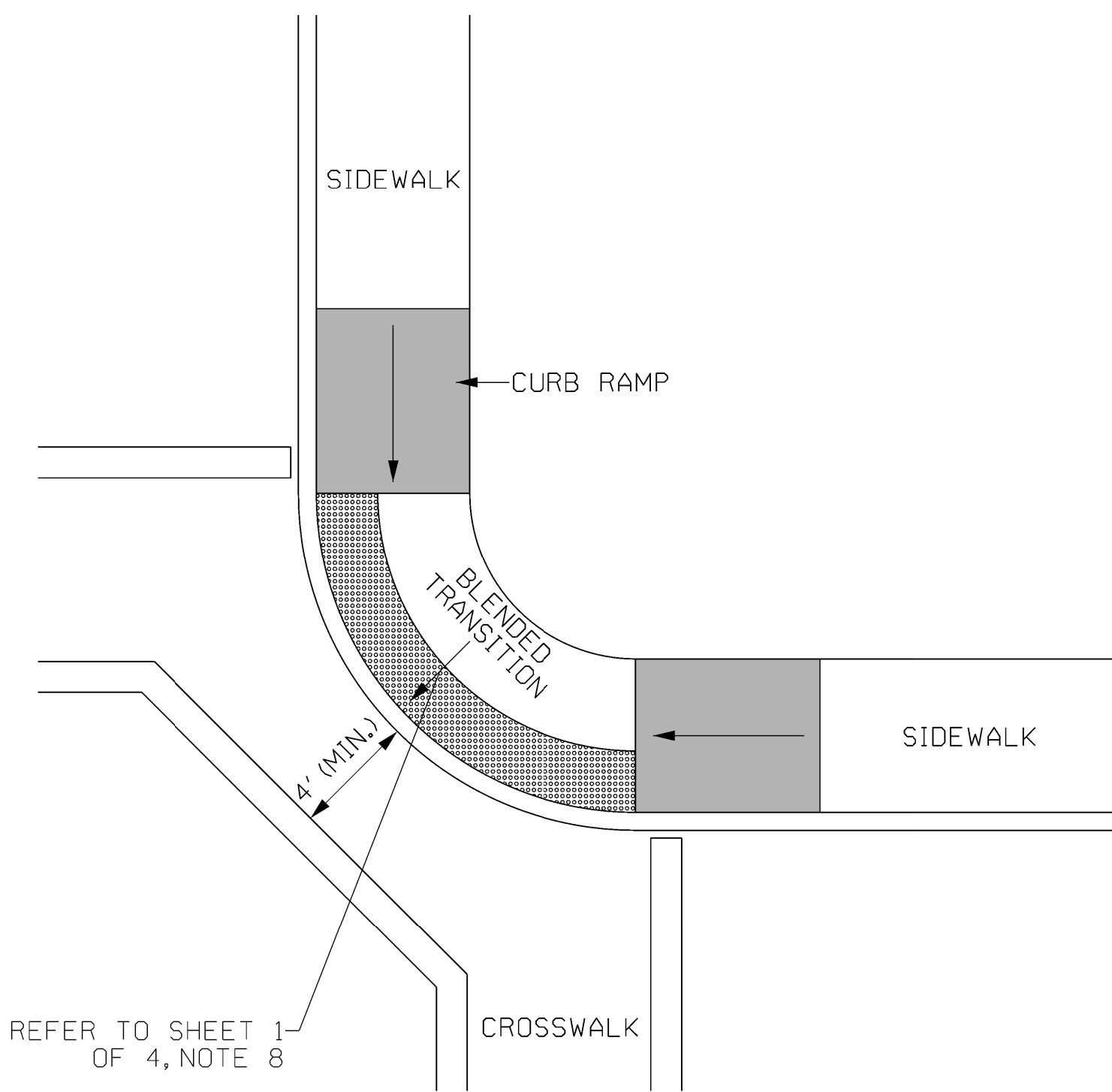
NOTE: REFER TO SHEET 4 OF 4, FOR
DETECTABLE WARNING DIMENSIONS
AND PLACEMENT ORIENTATION.



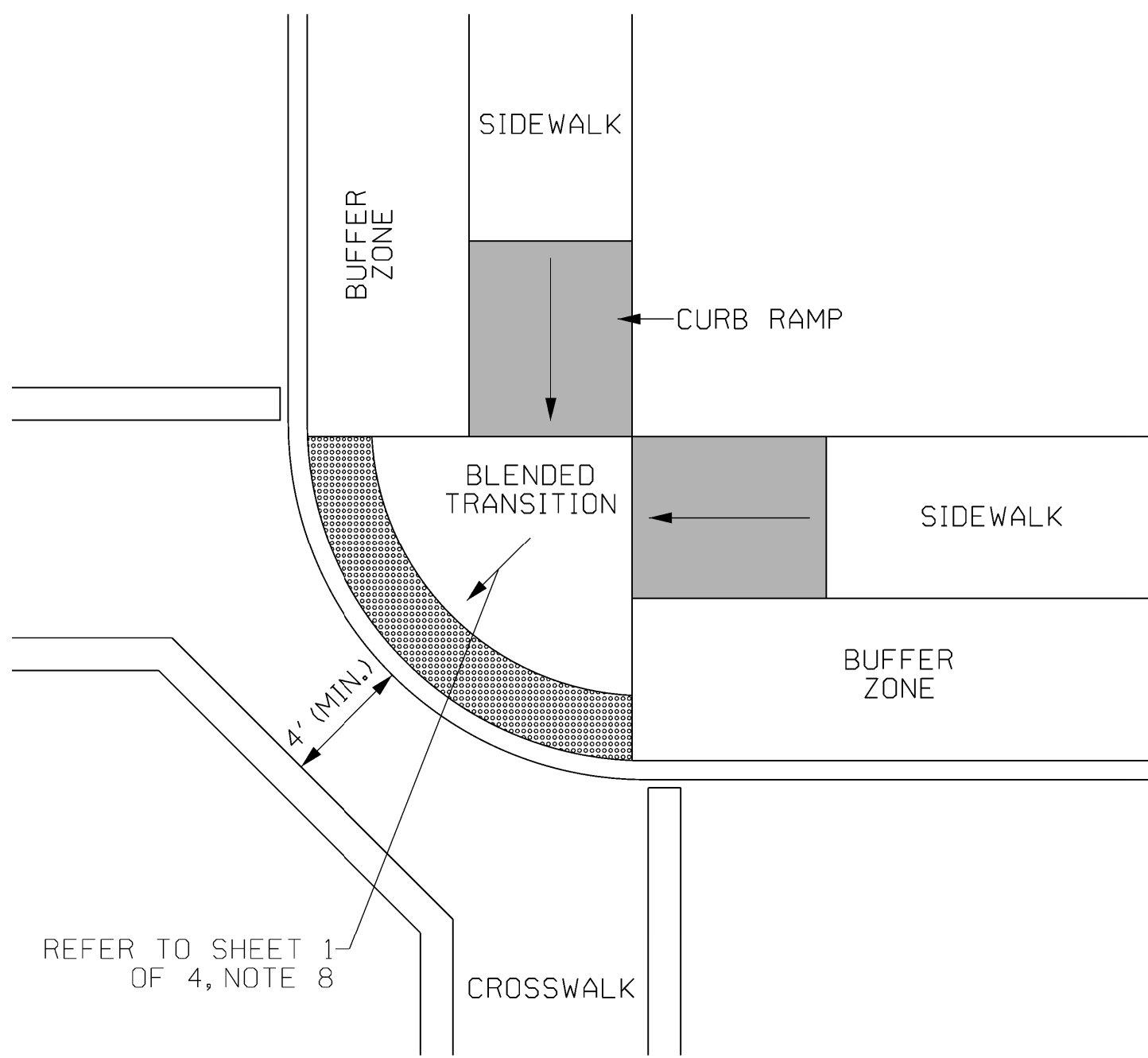
CURB RAMP CONFIGURATION: TYPE H



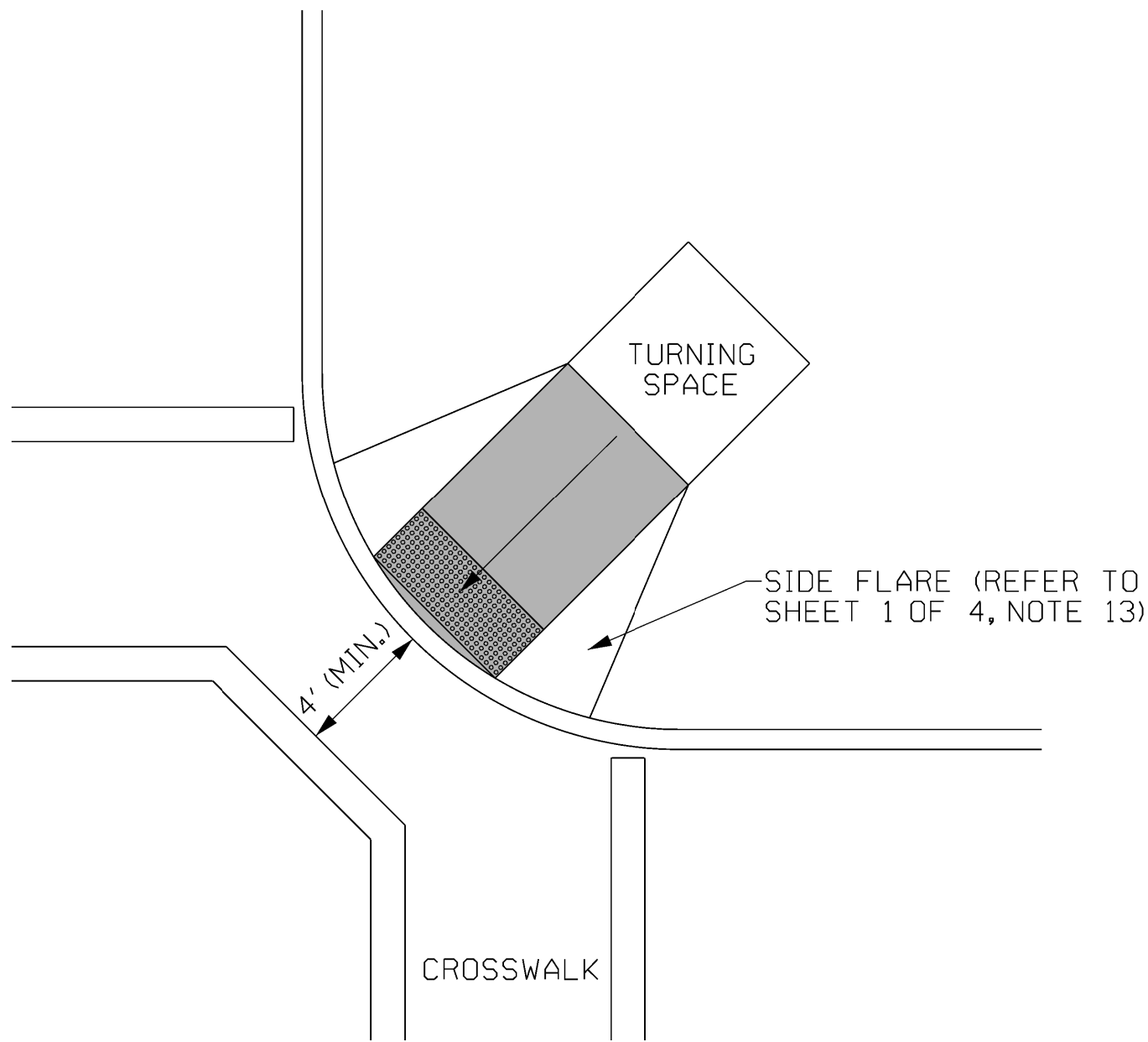
CURB RAMP CONFIGURATION: TYPE I
RIGHT TURN ISLAND CUT THROUGH



CURB RAMP CONFIGURATION: TYPE K
NOT RECOMMENDED



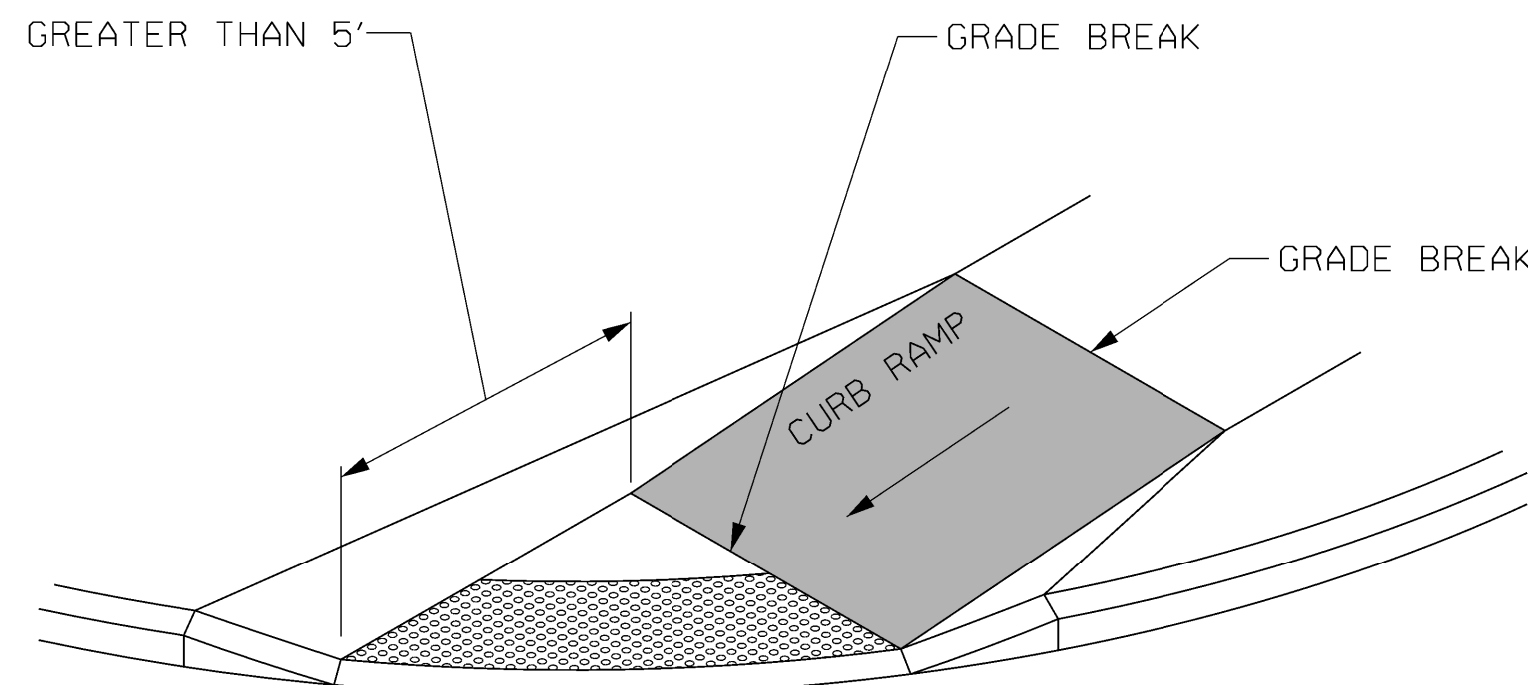
CURB RAMP CONFIGURATION: TYPE J
NOT RECOMMENDED



CURB RAMP CONFIGURATION: TYPE L
NOT RECOMMENDED
REFER TO NOTE 6

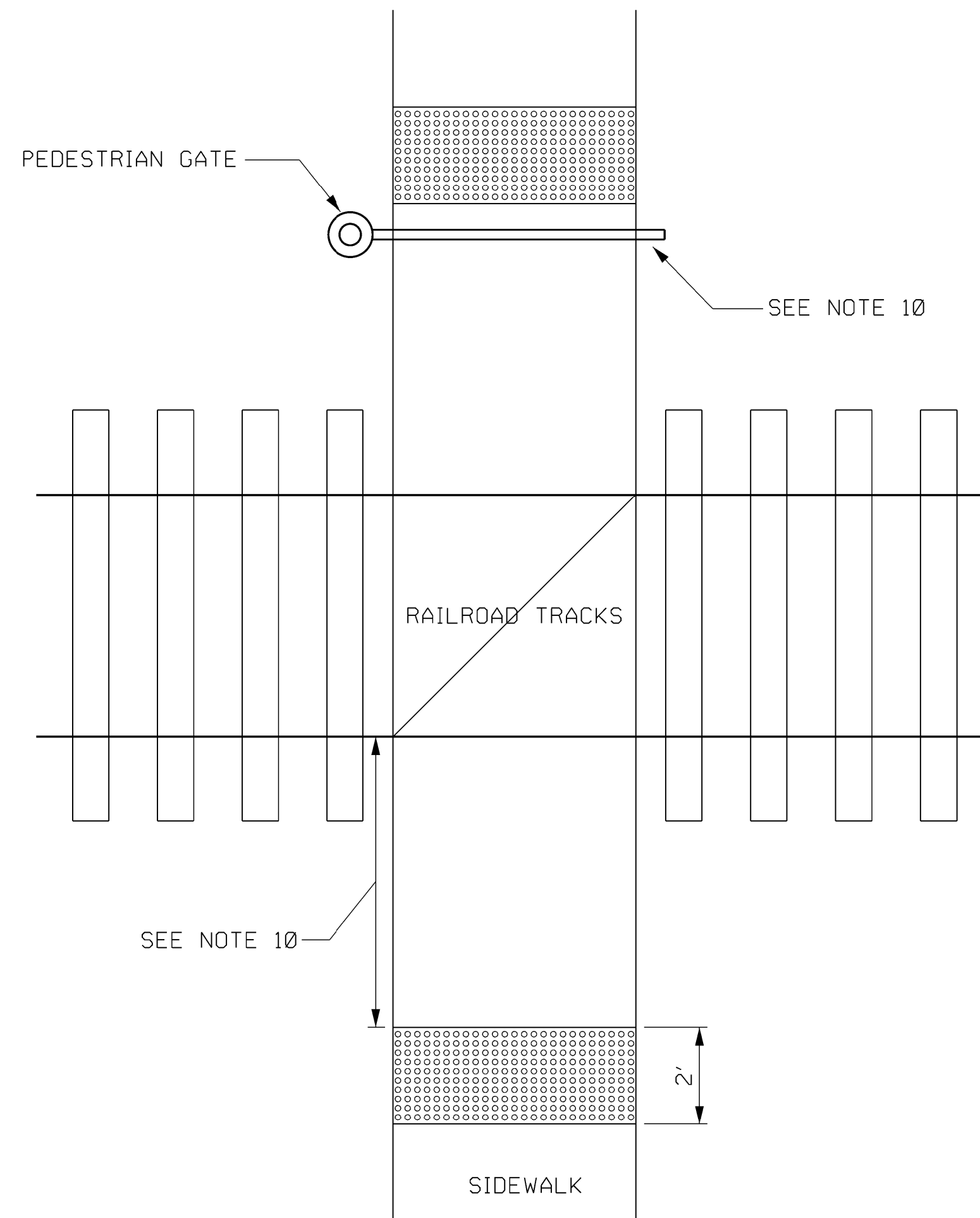
				BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
				REVISION	CURB RAMPs	
					PLACEMENT DETAILS	
					SHEET 3 OF 4	
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					DATE 7/20/15	



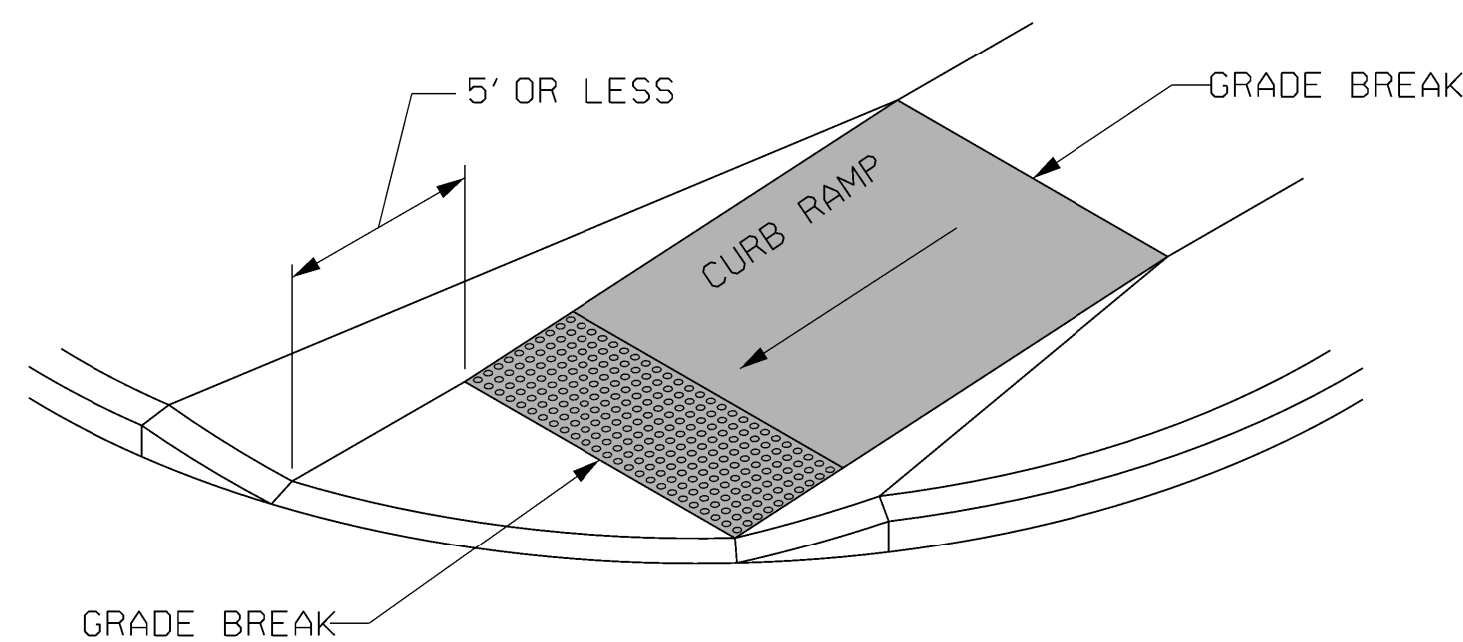


DETECTABLE WARNING PLACEMENT DETAIL 1

NOTE: IF THE DISTANCE FROM THE GRADE BREAK IS
GREATER THAN OR EQUAL TO 5', DETECTABLE WARNINGS
SHALL BE PLACED ALONG THE RADIUS OF THE CURVE
AS SHOWN IN THE ABOVE DETAIL.

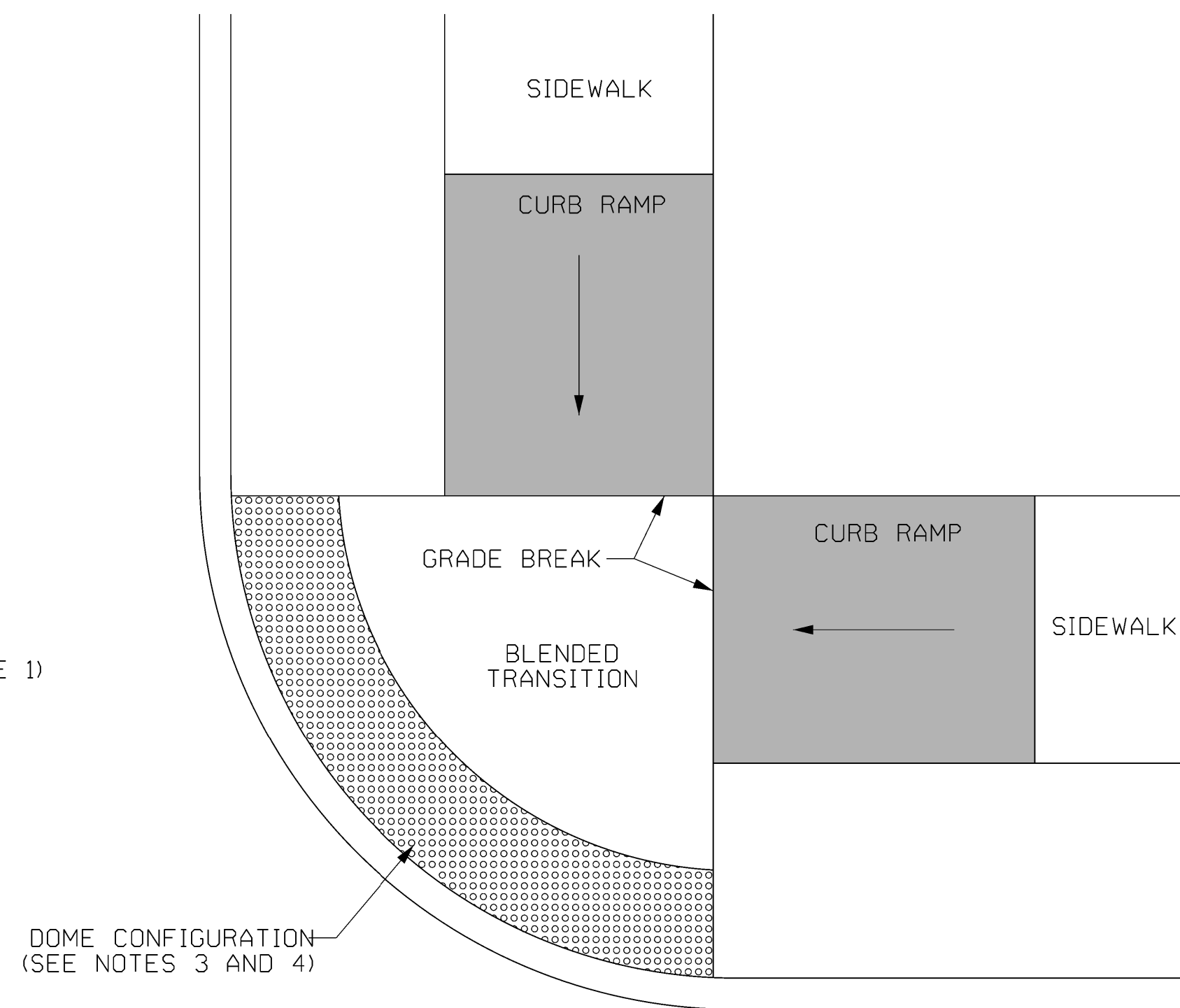


DETECTABLE WARNINGS AT RAILROAD CROSSING

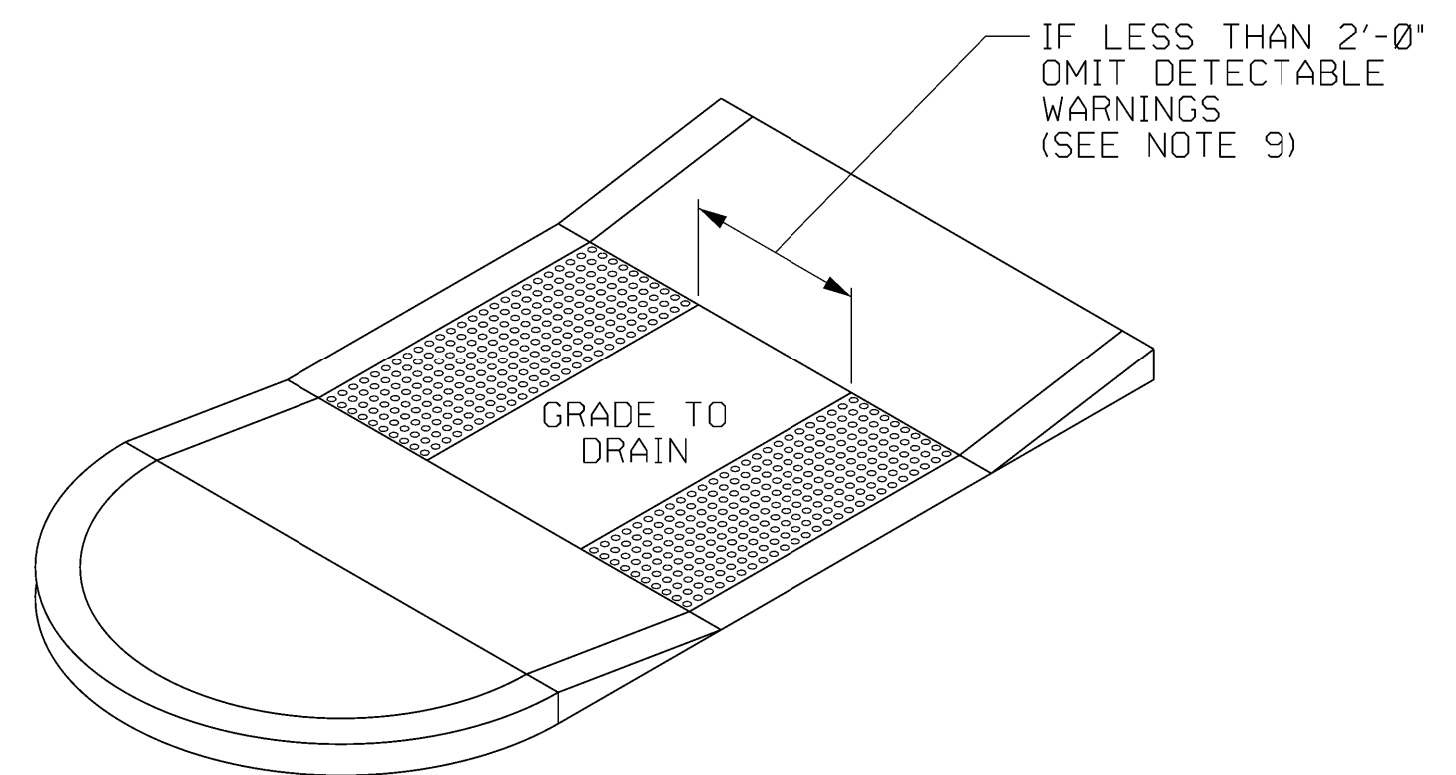


DETECTABLE WARNING PLACEMENT DETAIL 2

NOTE: IF THE DISTANCE FROM THE GRADE BREAK IS LESS THAN OR EQUAL TO 5', DETECTABLE WARNINGS SHALL BE PLACED ON THE CURB RAMP ALONG THE BOTTOM GRADE BREAK WITH ONE CORNER 5" TO 9" FROM THE FRONT OF THE CURB OR EDGE OF THE ROADWAY.

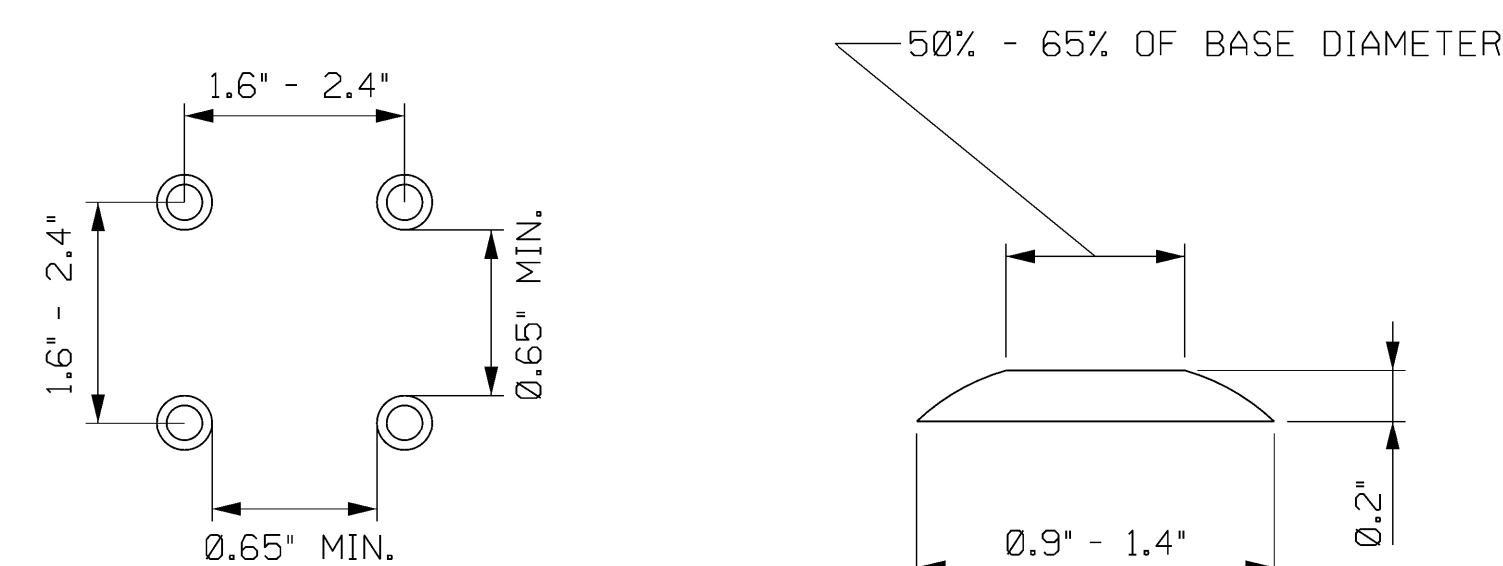


DETECTABLE WARNING AT BLENDED TRANSITION (CONFIGURATION: TYPES K AND J)



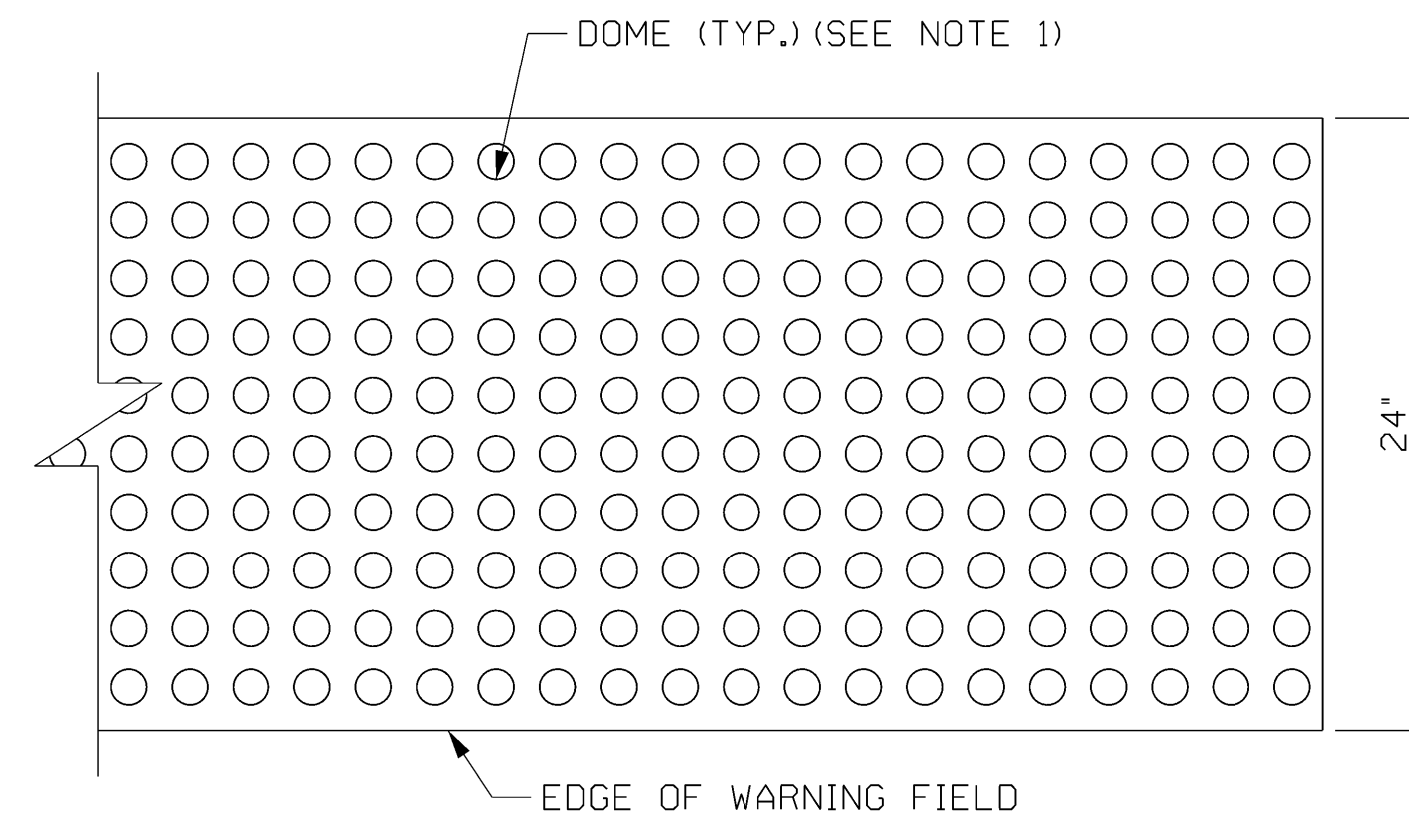
DETECTABLE WARNINGS AT MEDIAN ISLANDS

NON-ELEVATED CROSSING



DOME SPACING

DOME SECTION



DETECTABLE WARNING LAYOUT

- NOTES:**
- THE DETAILS PROVIDED ARE NOT DRAWN TO SCALE. THE QUANTITY OF DOMES DEPICTED ON THE DETECTABLE WARNING UNIT (THE DOMES AND THE ENTIRE 2' LEVEL SURFACE) IS FOR ILLUSTRATION ONLY.
- ALL DETECTABLE WARNINGS SHOWN ON THIS SHEET SHALL BE ABSORBED IN OTHER PAY ITEMS BID.

DETECTABLE WARNING UNIT DIMENSIONS:

3. DETECTABLE WARNING SURFACES SHALL EXTEND 2' MINIMUM IN THE DIRECTION OF PEDESTRIAN TRAVEL. AT CURB RAMPS AND BLENDED TRANSITIONS, DETECTABLE WARNING SURFACES SHALL EXTEND THE FULL WIDTH OF THE RAMP RUN (EXCLUDING ANY FLARED SIDES), BLENDED TRANSITION, OR TURNING SPACE. AT PEDESTRIAN AT-GRADE RAIL CROSSINGS NOT LOCATED WITHIN A STREET OR HIGHWAY, DETECTABLE WARNINGS SHALL EXTEND THE FULL WIDTH OF THE CROSSING. AT BOARDING PLATFORMS FOR BUSES AND RAIL VEHICLES, DETECTABLE WARNING SURFACES SHALL EXTEND THE FULL LENGTH OF THE PUBLIC USE AREAS OF THE PLATFORM. AT BOARDING AND ALIGHTING AREAS AT SIDEWALK OR STREET LEVEL TRANSIT STOPS FOR RAIL VEHICLES, DETECTABLE WARNING SURFACES SHALL EXTEND THE FULL LENGTH OF THE TRANSIT STOP.

DOME ALIGNMENT:

4. THE ROWS OF DOMES SHALL BE ALIGNED TO BE PERPENDICULAR OR RADIAL TO THE GRADE BREAK AT THE RAMP LANDING OR BETWEEN THE CURB RAMP AND THE STREET.
5. WHERE DOMES ARE ARRAYED RADially THEY MAY DIFFER IN DOME DIAMETER AND CENTER-TO-CENTER SPACING WITHIN THE RANGES SPECIFIED ON THIS SHEET.

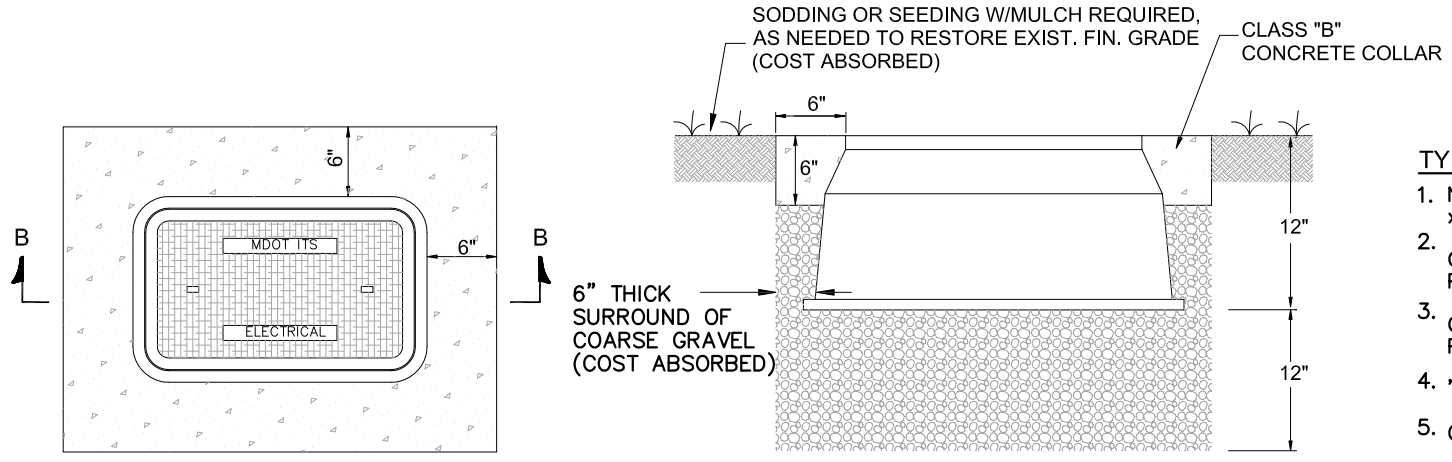
COLOR REQUIREMENTS:

6. DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT GUTTER, STREET OR HIGHWAY, OR PEDESTRIAN ACCESS ROUTE SURFACE, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT.

DETECTABLE WARNINGS LOCATIONS:

7. ON PERPENDICULAR CURB RAMPS, WHERE THE ENDS OF THE BOTTOM GRADE BREAK ARE IN FRONT OF THE BACK OF CURB, DETECTABLE WARNING SURFACES SHALL BE PLACED AT THE BACK OF CURB, WHERE THE ENDS OF THE BOTTOM GRADE BREAK ARE BEHIND THE BACK OF CURB AND THE DISTANCE FROM EITHER END OF THE BOTTOM GRADE BREAK TO THE BACK OF CURB IS 5' OR LESS, DETECTABLE WARNING SURFACES SHALL BE PLACED ON THE RAMP RUN WITHIN ONE DOME SPACING OF THE BOTTOM GRADE BREAK, WHERE THE ENDS OF THE BOTTOM GRADE BREAK ARE BEHIND THE BACK OF CURB AND THE DISTANCE FROM EITHER END OF THE BOTTOM GRADE BREAK TO THE BACK OF CURB IS MORE THAN 5', DETECTABLE WARNING SURFACES SHALL BE PLACED ON THE LOWER LANDING AT THE BACK OF CURB.
8. ON PARALLEL CURB RAMPS, DETECTABLE WARNING SURFACES SHALL BE PLACED ON THE TURNING SPACE AT THE FLUSH TRANSITION BETWEEN THE STREET AND SIDEWALK.
9. ON BLENDED TRANSITIONS, DETECTABLE WARNING SURFACES SHALL BE PLACED AT THE BACK OF CURB, WHERE RAISED PEDESTRIAN STREET CROSSINGS, DEPRESSIONED CORNERS, OR OTHER LEVEL PEDESTRIAN STREET CROSSINGS ARE PROVIDED, DETECTABLE WARNING SURFACES SHALL BE PLACED AT THE FLUSH TRANSITION BETWEEN THE STREET AND THE SIDEWALK.
10. AT CUT-THROUGH PEDESTRIAN REFUGE ISLANDS, DETECTABLE WARNING SURFACES SHALL BE PLACED AT THE EDGES OF THE PEDESTRIAN ISLAND AND SHALL BE SEPARATED BY A 2' MINIMUM LENGTH OF SURFACE WITHOUT DETECTABLE WARNINGS.
11. AT PEDESTRIAN AT-GRADE RAIL CROSSINGS NOT LOCATED WITHIN A STREET OR HIGHWAY, DETECTABLE WARNING SURFACES SHALL BE PLACED ON EACH SIDE OF THE RAIL CROSSING. THE EDGE OF THE DETECTABLE WARNING SURFACE NEAREST THE RAIL CROSSING SHALL BE 6' MINIMUM AND 15' MAXIMUM FROM THE CENTERLINE OF THE NEAREST RAIL. WHERE PEDESTRIAN GATES ARE PROVIDED, DETECTABLE WARNING SURFACES SHALL BE PLACED ON THE SIDE OF THE GATES OPPOSITE THE RAIL.
12. AT BOARDING PLATFORMS FOR BUSES AND RAIL VEHICLES, DETECTABLE WARNING SURFACES SHALL BE PLACED AT THE BOARDING EDGE OF THE PLATFORM.
13. AT BOARDING AND ALIGHTING AREAS AT SIDEWALK OR STREET LEVEL TRANSIT STOPS FOR RAIL VEHICLES, DETECTABLE WARNING SURFACES SHALL BE PLACED AT THE SIDE OF THE BOARDING AND ALIGHTING AREA FACING THE RAIL VEHICLES.

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PLAN VIEW

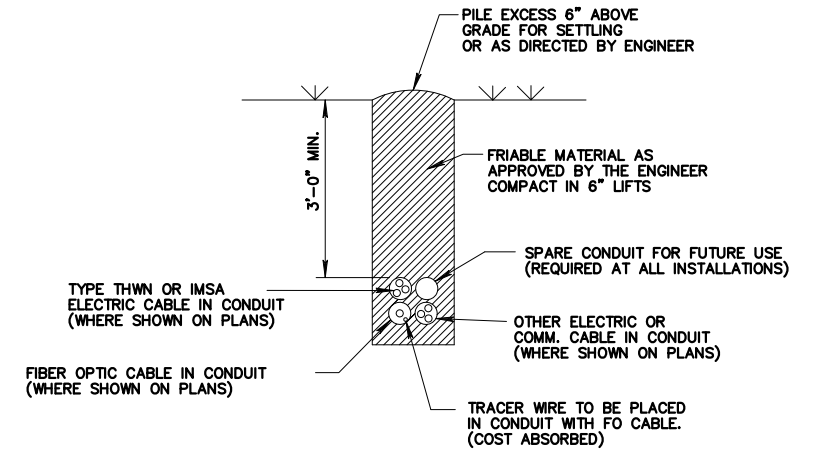
SECTION B-B

ELECTRICAL (TYPE 2) PULLBOX INSTALLATION

PRECAST CLASS "B" CONCRETE, CAST IRON, COMPOSOLITE, OR APPROVED EQUAL (NOT TO SCALE)

TYPE 2 PULLBOX NOTES:

- NOMINAL PULLBOX DIMENSIONS: 25"(L) x 15"(W) x 12"(D)
- GRAVEL, 12" DEEP, IS REQUIRED UNDER PULLBOXES FOR DRAINAGE (COST ABSORBED).
- CONCRETE COLLAR, 6" x 6", IS REQUIRED FOR PULLBOXES PLACED IN SOIL (COST ABSORBED).
- "MDOT ITS ELECTRICAL" LEGEND REQUIRED.
- COVERS SHALL BOLT DOWN.
- PULL BOXES AND COVERS SHALL BE TRAFFIC LOAD BEARING BASED ON 15,000 LB. LOAD OVER 10" x 10" AREA.

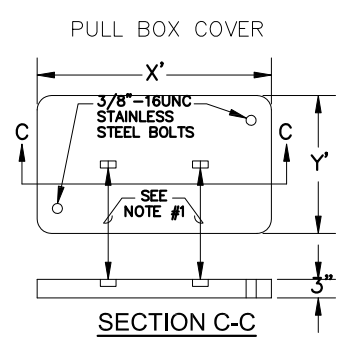


TRENCHING DETAIL – TYPICAL CONDUIT BANK

ELECTRIC AND/OR FIBER OPTIC CABLE INSTALLATIONS (# OF CONDUITS AND CABLES AS SHOWN ON PLANS)

CONDUIT INSTALLATION NOTES:

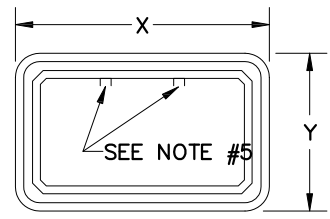
- IN SOME CASES, CONTRACTOR SHALL HAVE THE OPTION TO INSTALL CONDUIT BY DIRECTIONAL BORING OR PLOWING. SEE WK. NO. GN-1 FOR ADDITIONAL DETAILS.
- SEPARATE PULL BOXES SHALL BE PROVIDED FOR POWER SUPPLY AND COMM. CABLES. WHERE SHOWN ON THE PLANS, TYPE 2 PULL BOXES WILL BE PROVIDED FOR POWER SUPPLY CABLES, AND TYPE 4 OR 5 PULL BOXES WILL BE PROVIDED FOR COMM. CABLES. UNDER NO CIRCUMSTANCES SHALL POWER AND COMM. CABLES BE INSTALLED WITHIN THE SAME PULL BOX.



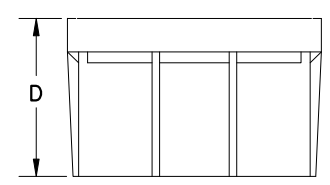
SECTION C-C

TYPE (nom. dims)	Y'	X	Y	D	LOGO
4 (36 in. x 24 in.)	24"	37.6"	26"	36"	MDOT ITS COMMUNICATIONS
5 (48 in. x 30 in.)	30"	49.6"	32"	36"	MDOT ITS COMMUNICATIONS

TYPE 5 FIBER OPTIC PULLBOXES MUST BE USED AT ALL LOCATIONS WHERE TRUNK SPLICING IS REQUIRED IN THE PULLBOX.
TYPE 4 OR TYPE 5 FIBER OPTIC PULLBOXES MAY BE USED WHERE NO TRUNK SPLICING IS REQUIRED (AS SHOWN ON PLANS).



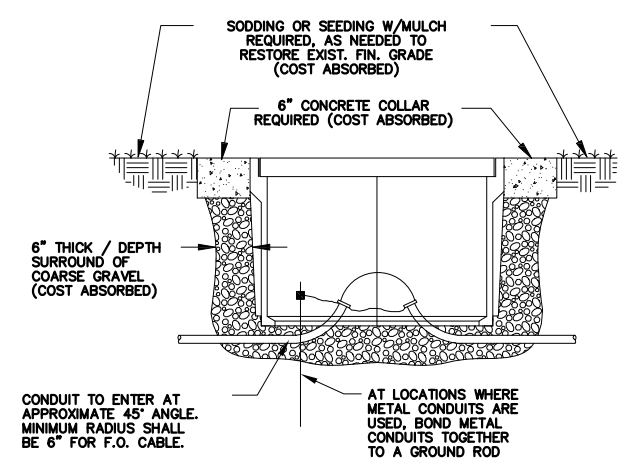
TOP VIEW



FRONT VIEW

FIBER OPTIC (TYPES 4 AND 5) PULLBOX NOTES:

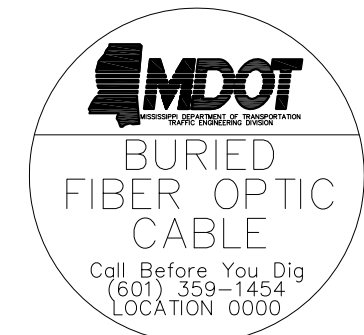
- NOTCHES SHALL BE PROVIDED FOR REMOVING THE COVER. COVER BOLTS SHALL BE TAMPER-RESISTANT.
- COVER TO HAVE ROUGHENED TOP SURFACE.
- LOGO (AS SHOWN ABOVE) IS TO BE INSCRIBED ON TOP OF THE COVER.
- ASSEMBLY SHALL BE RATED FOR A MINIMUM STATIC LOAD OF 15,000 LBS. OVER A 10"x10" AREA AND SHALL PASS A MINIMUM STATIC TEST LOAD OF 22,000 LBS.
- INSTALL STRUTS AND SPLICE CLOSURE INSIDE ALL TYPE 5 FIBER OPTIC PULLBOXES (COST ABSORBED).
- WHERE PULLBOX IS INSTALLED OVER RUN OF EXISTING CONDUIT, EXISTING CONDUITS SHALL BE CUT AND COUPLED TO NEW LARGE RADIUS (6" MIN.) BENDS AS REQUIRED. (COST ABSORBED).



FIBER OPTIC (TYPE 4 OR 5) PULLBOX INSTALLATION

PRECAST CLASS "B" CONCRETE, CAST IRON, COMPOSOLITE, OR APPROVED EQUAL (NOT TO SCALE)

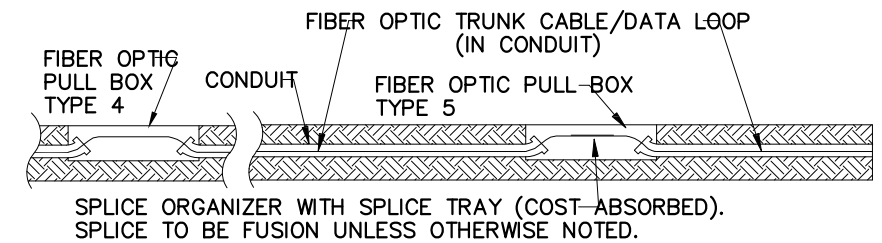
- PULLBOX GENERAL NOTES:
- CONDUIT FOR FIBER OPTIC CABLE REQUIRED TO UTILIZE LARGE RADIUS BENDS (MINIMUM RADIUS 6") NO ELBOW JOINTS ALLOWED.
 - WHEN EXISTING PULLBOXES ARE TO BE REPLACED BY LARGER FIBER OPTIC PULLBOXES, THE COST OF REMOVAL, BACKFILL, SIDEWALK, ETC. TO BE COST ABSORBED.
 - THE COST OF ALL MODIFICATIONS, ADJUSTMENTS, MATERIALS, MOUNTING HARDWARE, ETC. TO BE ABSORBED IN OTHER ITEMS, UNLESS A DIRECT PAY ITEM IS PROVIDED.



FIBER OPTIC PULLBOX LABEL

NOTES:

- LABEL PROVIDED BY MDOT I.T.S. INSTALLED BY CONTRACTOR ON COVER OF ALL COMMUNICATIONS PULLBOXES.
- PULL BOX LOCATION LABELS TO BE NUMBERED IN SEQUENTIAL ORDER WITHIN THE PROJECT.



TRENCHING DETAIL – TYPICAL CONDUIT BANK

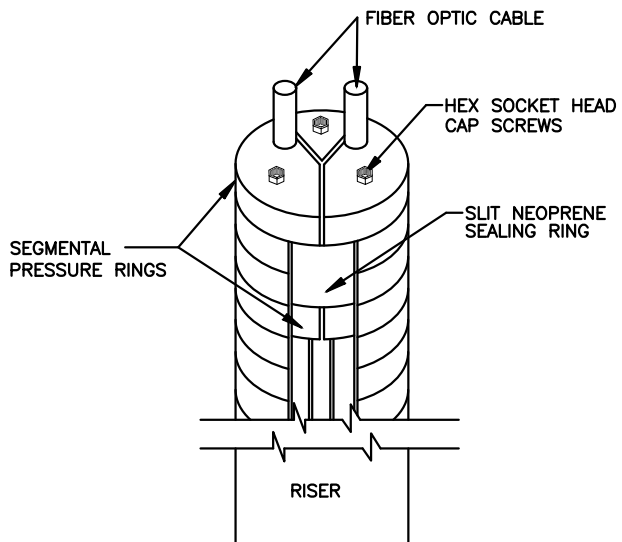
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
FIBER OPTIC DETAILS
PULLBOX AND CONDUIT
TRENCHING DETAILS

COUNTY: FORREST
PROJ. NUM.: DECD-0018(35)B0
FILENAME: FO-1.DWG
DESIGN TEAM _____ CHECKED _____ DATE _____

WORKING NUMBER
FO-1
SHEET NUMBER
FO-1

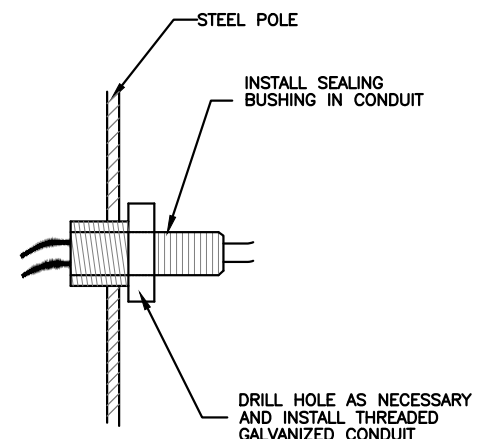
CHECKED BY: DEW
DRAWN BY: DBG
DESIGNED BY: DBG
Jul 09, 2020 C:\MIX\304828\178-11\178-11.dwg
FO-2
FILE NAME: D:\Civil\30 - 178-11\178-11.dwg
DESIGN TEAM: THE WALKER ASSOCIATES, PLLC

STATE	PROJECT NO.
MISS.	DECD-0018(35)B0

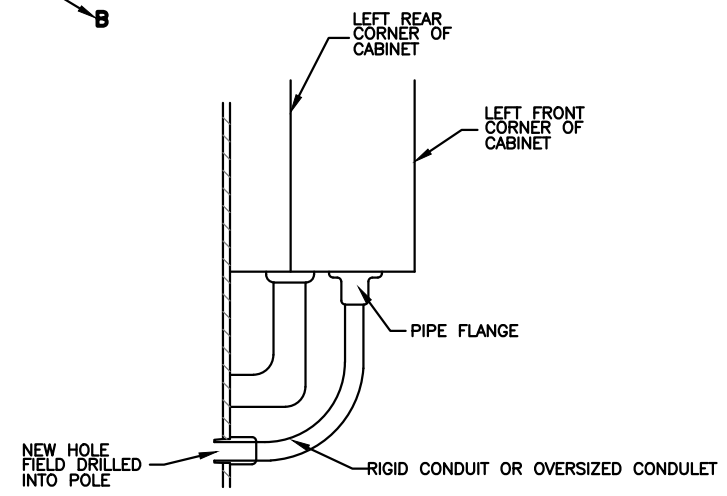
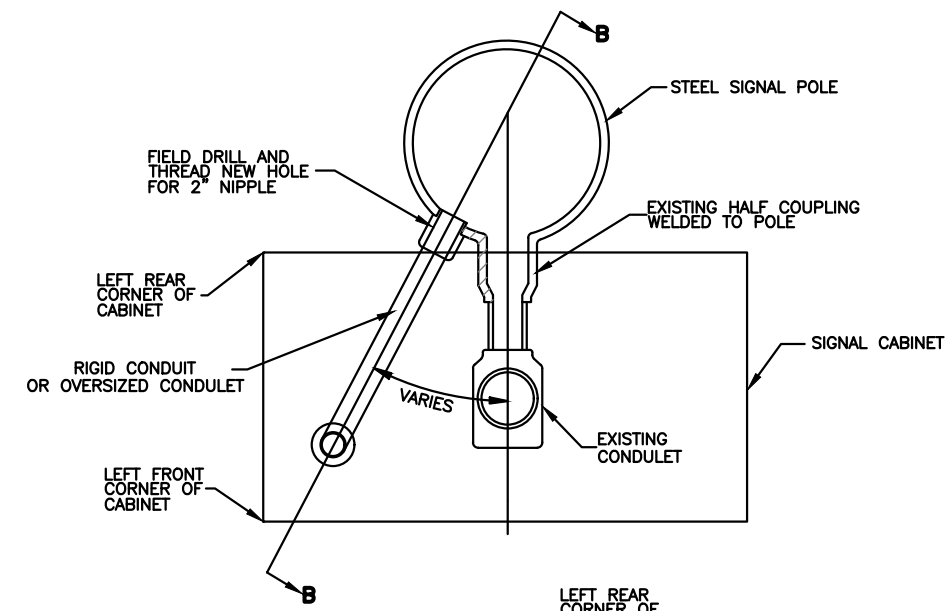


RISER SEALING BUSHING FOR FIBER OPTIC CABLE

NOTE: TOP OF BUSHING SHALL BE APPROXIMATELY 11" BELOW MESSENGER ATTACHMENT HEIGHT.

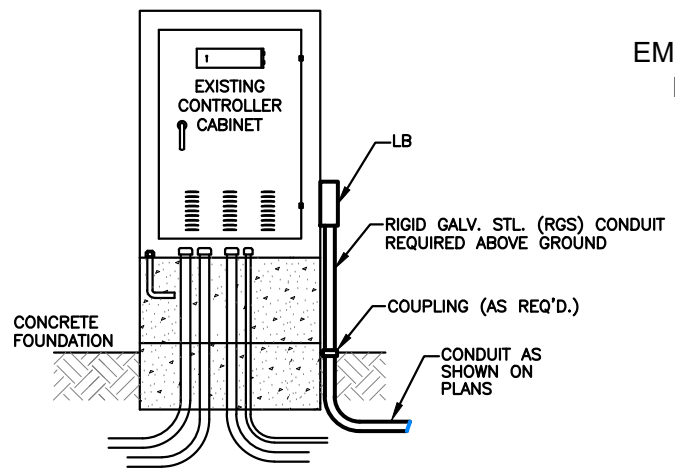


FIBER ENTRANCE TO EXISTING STEEL POLES



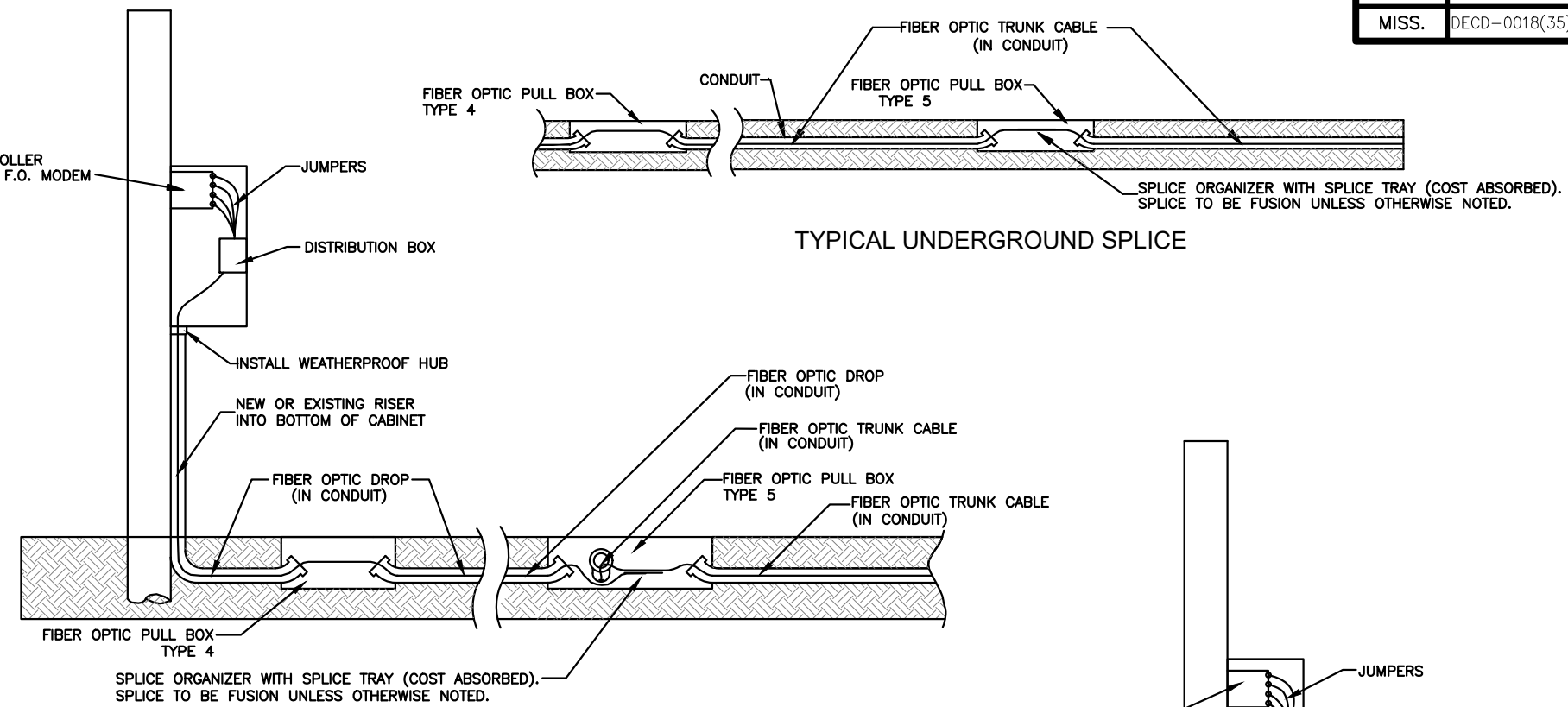
SECTION B-B

DETAIL OF NEW CONDUIT SWEEP INTO BOTTOM OF POLE MOUNTED CABINET ON STEEL POLE

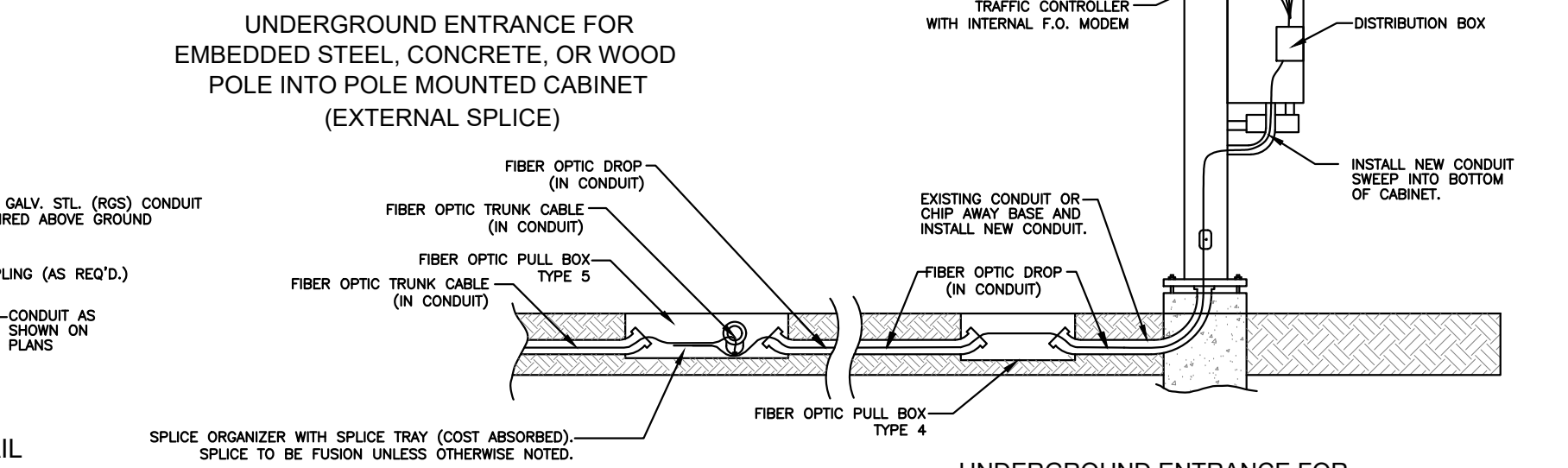


CONDUIT ENTRANCE DETAIL (EXISTING CABINET)

NOTE: TO BE USED ONLY WHEN SPARE CONDUIT IS NOT AVAILABLE.

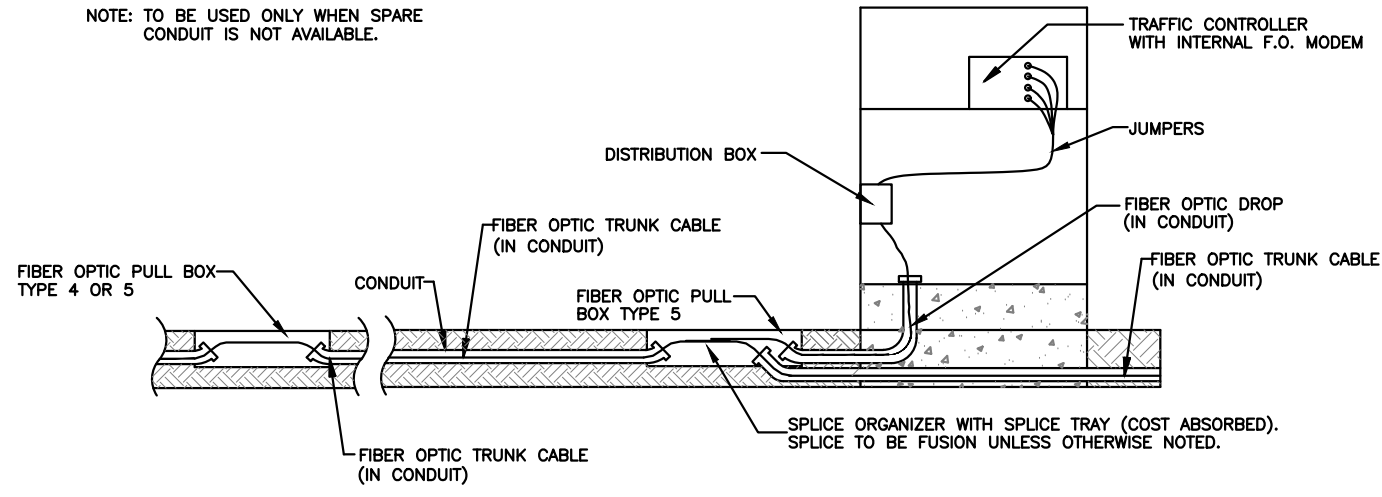


TYPICAL UNDERGROUND SPLICE



UNDERGROUND ENTRANCE FOR EMBEDDED STEEL, CONCRETE, OR WOOD POLE INTO POLE MOUNTED CABINET (EXTERNAL SPLICE)

UNDERGROUND ENTRANCE FOR STEEL POLE INTO POLE MOUNTED CABINET (EXTERNAL SPLICE)



UNDERGROUND ENTRANCE INTO BASE MOUNTED CABINET (EXTERNAL SPLICE)

NOTE: ALL MODIFICATIONS, ADJUSTMENTS, MATERIALS, ETC. TO BE COST ABSORBED

MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
FIBER OPTIC DETAILS	
CABINET	
ENTRANCE DETAILS	
COUNTY: FORREST	PROJECT NO. DECD-0018(35)B0
FILENAME: 178-11 FO-1.DWG	WORKING NUMBER FO-2
DESIGN TEAM	CHECKED
DATE	DATE

7008

OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
AND
FORREST COUNTY BOARD OF SUPERVISORS

SECTION 900

NOTICE TO CONTRACTORS:

Sealed bids will be received by the City of Hattiesburg, Mississippi at the Hattiesburg City Clerk's office, located at 200 Forrest Street, Hattiesburg, Mississippi, until 10:00 am on the ___ day of _____, 2020 and shortly thereafter publicly opened for the construction of 1.210 miles of ROADWAY IMPROVEMENTS on HIGHWAY 49, CAMP STREET, ADELINE STREET, AND MAMIE STREET being known as Project No. DECD-0018(35)BO in the City of Hattiesburg, Forrest County, Mississippi.

PRINCIPAL ITEMS OF WORK ARE APPROXIMATELY AS FOLLOWS:

ITEM	QUANTITY	UNIT
<u>ROADWAY ITEMS ITEMS:</u>		
MOBILIZATION	LUMP SUM	LS
CLEARING AND GRUBBING	LUMP SUM	LS
REMOVAL OF DRAINAGE STRUCTURE (ALL SIZES AND DEPTHS)	26.000	EA
REMOVAL OF SIGN INCLUDING POST & FOOTING (ALL TYPES AND SIZES)	63.000	EA
REMOVAL OF TRAFFIC SIGNAL	1.000	EA
REMOVAL OF CONCRETE COMBINATION CURB AND GUTTER	8,795.000	LF
REMOVAL OF FENCE	318.000	LF
REMOVAL OF TRAFFIC STRIPE (ALL TYPES)	7,665.000	LF
REMOVAL OF CONCRETE DRIVEWAYS, ALL DEPTHS	1,966.000	SY
REMOVAL OF LEGEND (ALL TYPES)	14.000	SY
REMOVAL OF PAVEMENT, ALL DEPTHS	18,363.000	SY
REMOVAL OF PAVEMENT, ALL TYPES AND DEPTHS	771.000	SY
REMOVAL OF PIPE (ALL SIZES)	1,001.000	LF
BORROW EXCAVATION (F.M.E.) (CONTRACTOR FURNISHED) (CLASS 9-8)	9,594.000	CY
EXCESS EXCAVATION (FM)	9,656.000	CY
STRUCTURE EXCAVATION	252.000	CY
CRUSHED STONE (SIZE 610)	5,948.000	TON
HOT MIX ASPHALT, (ST) (9.5MM)	434.000	TON
HOT MIX ASPHALT, (ST) (9.5MM)	822.000	TON
HOT MIX ASPHALT, (ST) (12.5MM)	621.000	TON
HOT MIX ASPHALT, (ST) (19MM)	2,393.000	TON
HOT MIX ASPHALT, (ST) (19MM), TRENCH WIDENING	17.000	TON
HOT MIX ASPHALT, (HT) (9.5MM), POLYMER MODIFIED	279.000	TON
HOT MIX ASPHALT, (HT) (9.5MM),	8.000	TON

SECTION 900
PROJECT NO. DECD-0018(35)BO
FORREST COUNTY

TRENCH WIDENING, POLYMER MODIFIED HOT MIX ASPHALT, (HT) (12.5MM) POLYMER MODIFIED	196.000	TON
HOT MIX ASPHALT, (HT) (19MM), POLYMER MODIFIED	868.000	TON
HOT MIX ASPHALT, (HT) (19MM), TRENCH WIDENING, POLYMER MODIFIED	23.000	TON
COLD MILLING OF BITUMINOUS PAVEMENT, ALL DEPTHS	3,146.000	SY
CLEANING AND SEALING CRACKS	3,000.000	LF
CLASS "B" STRUCTURAL CONCRETE, MINOR STRUCTURES	121.000	CY
REINFORCING STEEL	11,182.000	LB
18" REINFORCED CONCRETE PIPE, CLASS III, RUBBER GASKET	778.000	LF
24" REINFORCED CONCRETE PIPE, CLASS III, RUBBER GASKET	316.000	LF
18" REINFORCED CONCRETE PIPE	3.000	EA
END SECTION		
24" REINFORCED CONCRETE PIPE, END SECTION	2.000	EA
22"X13" REINFORCED CONCRETE ARCH PIPE, CLASS III	61.000	LF
29" X 18" REINFORCED CONCRETE ARCH PIPE, CLASS III	188.000	LF
10" CORRUGATED POLY VINYL CHLORIDE PIPE	58.000	LF
18" CORRUGATED POLY VINYL CHLORIDE PIPE	142.000	LF
10" PVC INLET	1.000	EA
18" PVC INLET	5.000	EA
CORRUGATED POLY VINYL CHLORIDE PIPE FITTINGS	LUMP SUM	LS
CASTINGS	4,456.000	LB
GRATINGS	2,881.000	LB
4" PERFORATED SEWER PIPE FOR UNDERDRAINS (SDR 26)	3,265.000	LF
4" NON-PERFORATED SEWER PIPE FOR UNDERDRAINS (SDR 26)	93.000	LF
6" NON-PERFORATED SEWER PIPE FOR UNDERDRAINS (SDR 26)	36.000	LF
2" NON-PERFORATED PIPE FOR FUTURE ELECTRICAL CONDUIT	400.000	LF
4" NON-PERFORATED PIPE FOR FUTURE IRRIGATION CONDUIT	1,200.000	LF
FILTER MATERIAL FOR FILTER BEDS, TYPE B	490.000	CY
GEOTEXTILE FOR SUBSURFACE DRAINAGE, TYPE III, AOS (0.15-0.43)	1,100.000	SY
CONCRETE SIDEWALK	1,955.000	SY

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CONCRETE DRIVEWAY, WITHOUT REINFORCEMENT, 6-INCH THICKNESS	515.000	SY
CONCRETE DRIVEWAY, WITH REINFORCEMENT, 5-INCH THICKNESS	1,819.000	SY
CONCRETE CURB, SPECIAL DESIGN, SLOTTED	1,915.000	LF
CONCRETE CURB, TYPE 1 DOWELED CURB	311.000	LF
CONCRETE CURB, TYPE 1 HEADER	1,971.000	LF
CONCRETE CURB (INTEGRAL) TYPE 1	194.000	LF
COMBINATION CONCRETE CURB AND GUTTER, TYPE 1 MODIFIED	5,101.000	LF
COMBINATION CONCRETE CURB AND GUTTER, TYPE 2	202.000	LF
COMBINATION CONCRETE CURB AND GUTTER, TYPE 3B MODIFIED	2,620.000	LF
ADJUSTMENT OF FENCE	LUMP SUM	LS
ADJUSTMENT OF PARKING BUMPERS	LUMP SUM	LS
ADJUSTMENT OF BICYCLE PARKING	1.000	EA
ADJUSTMENT OF PED. CROSSING SIGN & FLASHING BEACON	1.000	UN
ADJUSTMENT OF TRASH CAN	1.000	EA
CONCRETE ISLAND PAVEMENT, 10" THICKNESS	36.000	SY
CONCRETE ISLAND PAVEMENT STAMPED AND COLORED	393.000	SY
MAINTENANCE OF TRAFFIC PHASE 1	LUMP SUM	LS
MAINTENANCE OF TRAFFIC PHASE 2	LUMP SUM	LS
MAINTENANCE OF TRAFFIC PHASE 3	LUMP SUM	LS
MAINTENANCE OF TRAFFIC PHASE 4	LUMP SUM	LS
MAINTENANCE OF TRAFFIC PHASE 5	LUMP SUM	LS
MAINTENANCE OF TRAFFIC PHASE 6	LUMP SUM	LS
MAINTENANCE OF TRAFFIC PHASE 7	LUMP SUM	LS
4" WIDE TEMPORARY TRAFFIC STRIPE	15,500.000	LF
DETAIL TRAFFIC STRIPE	2,382.000	LF
4" WIDE THERMOPLASTIC TRAFFIC STRIPE (CONTINUOUS WHITE) (90 MILS)	0.025	MI
4" WIDE THERMOPLASTIC EDGE STRIPE (CONTINUOUS WHITE) (60 MILS)	0.376	MI
4" WIDE THERMOPLASTIC TRAFFIC STRIPE (CONTINUOUS YELLOW) (90 MILS)	472.000	LF
4" WIDE THERMOPLASTIC EDGE STRIPE (CONTINUOUS YELLOW) (90 MILS)	0.261	MI

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THERMOPLASTIC DETAIL STRIPE (4" EQUIVALENT LENGTH) (WHITE) (90 MILS)	316.000	LF
THERMOPLASTIC DETAIL STRIPE (4" EQUIVALENT LENGTH) (YELLOW) (90 MILS)	2,316.000	LF
THERMOPLASTIC LEGEND (WHITE) (120 MILS)	3,408.000	LF
THERMOPLASTIC LEGEND (WHITE) (120 MILS)	1,749.000	SF
THERMOPLASTIC LEGEND (WHITE) (120 MILS)	46.000	SF
THERMOPLASTIC LEGEND (YELLOW) (60 MILS)	88.000	LF
6" THERMOPLASTIC TRAFFIC STRIPE SKIP WHITE	0.374	MI
6" THERMOPLASTIC TRAFFIC STRIPE CONTINUOUS WHITE	0.780	MI
6" THERMOPLASTIC EDGE STRIPE CONTINUOUS WHITE	0.913	MI
6" THERMOPLASTIC TRAFFIC STRIPE CONTINUOUS YELLOW	0.391	MI
6" THERMOPLASTIC EDGE STRIPE CONTINUOUS YELLOW	1.156	MI
THERMOPLASTIC DETAIL STRIPE SKIP WHITE (2' STRIP - 6' GAP)	92.000	LF
THERMOPLASTIC DETAIL STRIPE WHITE	8,557.000	LF
THERMOPLASTIC DETAIL STRIPE YELLOW	957.000	LF
THERMOPLASTIC DETAIL STRIPE, BLUE	347.000	LF
THERMOPLASTIC LEGEND, BLUE	46.000	SF
RED-CLEAR REFLECTIVE RAISED MARKERS	326.000	EA
TWO-WAY YELLOW REFLECTIVE RAISED MARKERS	317.000	EA
COLD PLASTIC DETAIL STRIPE, YELLOW (6" EQUIVALENT LENGTH)	344.000	LF
REFLECTORIZED TRAFFIC WARNING SIGN (ENCAPSULATED LENS)	22.000	EA
STANDARD ROADSIDE SIGNS FORREST GENERAL HOSPITAL EMERGENCY NEXT RIGHT	97.500	SF
STANDARD ROADSIDE SIGNS, FORREST GENERAL HOSPITAL EMERGENCY SECOND LEFT	97.500	SF
REFLECTORIZED TRAFFIC REGULATORY SIGN (ENCAPSULATED LENS)	67.000	EA
FLOWABLE FILL	11.000	CY
RETAINING WALL SYSTEM, MODULAR	250.000	SF

SECTION 900
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FORREST COUNTY

12" TRENCH DRAIN	45.000	LF
<u>TRAFFIC SIGNAL ITEMS:</u>		
SOLID STATE TRAFFIC CABINET ASSEMBLY, TYPE III CABINET, TYPE 1 CONTROLLER	2.000	EA
POWER SERVICE PEDESTAL	2.000	EA
TRAFFIC SIGNAL EQUIPMENT POLE, TYPE II(L), 30' POLE, 45' ARM	1.000	EA
TRAFFIC SIGNAL EQUIPMENT POLE, TYPE III(L), 30' POLE, 50' & 55' ARM	1.000	EA
TRAFFIC SIGNAL EQUIPMENT POLE, TYPE III(L), 30' POLE, 50' & 60' ARM	1.000	EA
TRAFFIC SIGNAL EQUIPMENT POLE, TYPE III(L), 30' POLE, 60' & 60' ARM	1.000	EA
TRAFFIC SIGNAL EQUIPMENT POLE, TYPE VI, 8' POLE	2.000	EA
POLE FOUNDATIONS, CLASS "B" CONCRETE	17.000	CY
LUMINAIRE FIXTURE AND ARM, PER PLANS	4.000	EA
TRAFFIC SIGNAL HEAD, TYPE 1	10.000	EA
TRAFFIC SIGNAL HEAD, TYPE 2 FYA	3.000	EA
TRAFFIC SIGNAL HEAD, TYPE 3	2.000	EA
TRAFFIC SIGNAL HEAD, TYPE 4	1.000	EA
TRAFFIC SIGNAL HEAD, TYPE 4	1.000	EA
TRAFFIC SIGNAL HEAD, TYPE 4R	1.000	EA
TRAFFIC SIGNAL HEAD, TYPE 4R	3.000	EA
TRAFFIC SIGNAL HEAD, TYPE 6	4.000	EA
ELECTRICAL CABLE, UNDERGROUND IN CONDUIT, IMSA 20-1, AWG#14, 5 COND	578.000	LF
ELECTRICAL CABLE, UNDERGROUND IN CONDUIT, IMSA 20-1, AWG#14, 8 COND	889.000	LF
ELECTRICAL CABLE, UNDERGROUND IN CONDUIT, IMSA 20-1, AWG#8, 2 COND.	450.000	LF
ELECTRICAL CABLE, AERIAL SUPPORTED IN CONDUIT, IMSA 20-1, AWG#14, 7 CONDUCTOR	355.000	LF
PULLBOX ENCLOSURE, TYPE 1	4.000	EA
PULLBOX ENCLOSURE, TYPE 2	5.000	EA
PULLBOX ENCLOSURE, TYPE 3	2.000	EA
PULLBOX ENCLOSURE, TYPE 4	1.000	EA
TRAFFIC SIGNAL CONDUIT, UNDERGROUND, TYPE 4, 2"	2,077.000	LF
TRAFFIC SIGNAL CONDUIT, UNDERGROUND, TYPE 4, 3"	54.000	LF
TRAFFIC SIGNAL CONDUIT,	246.000	LF

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PROJECT NO. DECD-0018(35)BO
FORREST COUNTY

UNDERGROUND DRILLED OR JACKED,
TYPE 4, 2"

TRAFFIC SIGNAL CONDUIT, UNDERGROUND DRILLED OR JACKED, TYPE 4, 4"	276.000	LF
TYPE 1 OPTICAL DETECTOR	7.000	EA
TYPE 1 OPTICAL DETECTOR CABLE	1,233.000	LF
MULTIMODE PHASE SELECTOR	2.000	EA
VEHICLE LOOP ASSEMBLIES	192.000	LF
SHIELDED CABLE, AWG #18, 4 CONDUCTOR	2,106.000	LF
LOOP DETECTOR AMPLIFIER, 4 CHANNEL	2.000	EA
VIDEO VEHICLE DETECTION SENSOR TYPE 1A	7.000	EA
ACCESSIBLE PEDESTRIAN DETECTION ASSEMBLY	4.000	EA
TRAFFIC SIGN	42.000	SF
STREET NAME SIGN	70.000	SF

EROSION CONTROL ITEMS:

TOPSOIL FOR SLOPE TREATMENT (CONTRACTOR FURNISHED) (LVM)	50.000	CY
SOLID SODDING	16,250.000	SY

EROSION CONTROL ITEMS:

TOPSOIL FOR SLOPE TREATMENT (CONTRACTOR FURNISHED) (LVM)	1,200.000	CY
AGRICULTURAL LIMESTONE	1.000	TON
COMMERCIAL FERTILIZER (13-13-13)	0.500	TON
AMMONIUM NITRATE	0.050	TON
SEEDING	0.500	AC
TEMPORARY GRASSING	3.500	AC
TEMPORARY SILT FENCE (TYPE II) (AOS 0.15-0.84)	3,401.000	LF
SANDBAGS	393.000	EA
WATTLES, 20"	830.000	LF

UTILITY ITEMS:

RELOCATION ITEMS:

REMOVAL OF FIRE HYDRANT	1.000	EA
PRECAST MANHOLE, 48" DIAMETER (WATER VALVE VAULT)	1.000	EA
PRECAST MANHOLE, 72" DIAMETER (SPECIAL DESIGN)	1.000	EA
ADJUSTMENT OF PARKING LOT LIGHTING	LUMP SUM	LS

SECTION 900
PROJECT NO. DECD-0018(35)BO
FORREST COUNTY

SYSTEM		
ADJUSTMENT OF COMMUNICATION VAULT	2.000	EA
ADJUSTMENT OF FIBER OPTIC BOX	1.000	EA
ADJUSTMENT OF MANHOLE	3.000	EA
ADJUSTMENT OF WATER METER	8.000	EA
ADJUSTMENT OF WATER VALVE	6.000	EA
ADJUSTMENT OF SEWER SERVICE LINE	100.000	LF
FIRE HYDRANT ASSEMBLY	1.000	EA
ADJUSTMENT OF 2" SDR-21 (GASKET	440.000	LF
PIPE) WATER MAIN (ALL DEPTHS)		

PROJECT NO. DECD-0018(35)BO
CITY OF HATTIESBURG, FORREST COUNTY

NOTICE TO CONTRACTORS:

CONTRACT TIME: 300 WORKING DAYS

BASIS OF AWARD

The award, if made, will be made to the lowest qualified bidder on the basis of published quantities.

The City of Hattiesburg hereby notifies all bidders that it will affirmatively insure in any contract entered into pursuant to this advertisement, minority business enterprise will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

PLANS AND SPECIFICATIONS are on file in the office of the City Clerk of Hattiesburg, the Project Engineer's office, and the Office of the State Aid Engineer, 412 E. Woodrow Wilson Avenue, Jackson, Mississippi. This project shall be constructed in accordance with the latest edition of the Mississippi Standard Specifications for State Aid Road and Bridge Construction and the Mississippi Standard Specifications for Road and Bridge Construction.

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Bidders are hereby notified that any proposal accompanied by letters qualifying in any manner the condition under which the proposal is tendered will be considered an irregular bid and such proposal will not be considered in making the award.

BY: /s/
City Clerk
Hattiesburg, Mississippi

Dates of Publication:
_____, 2020
_____, 2020

**OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

(03-11-2020)

**DEPT. OF ECONOMIC AND COMMUNITY DEVELOPMENT
PROJECT NO. DECD-0018(35)BO FORREST COUNTY**

**MISSISSIPPI STANDARD SPECIFICATIONS FOR STATE AID ROAD AND BRIDGE
CONSTRUCTION, 2004 EDITION
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Section 904 (Rev. 03-11-2010)

Non-Collusion Affidavit
Mississippi Employment Protection Act Compliance
Proposal
Contract
Contract Bond

OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
AND
FORREST COUNTY BOARD OF SUPERVISORS

SECTION 900

NOTICE TO CONTRACTORS:

Sealed bids will be received by the City of Hattiesburg, Mississippi at the Hattiesburg City Clerk's office, located at 200 Forrest Street, Hattiesburg, Mississippi, until 10:00 am on the ___ day of _____, 2020 and shortly thereafter publicly opened for the construction of 1.210 miles of ROADWAY IMPROVEMENTS on HIGHWAY 49, CAMP STREET, ADELINE STREET, AND MAMIE STREET being known as Project No. DECD-0018(35)BO in the City of Hattiesburg, Forrest County, Mississippi.

PRINCIPAL ITEMS OF WORK ARE APPROXIMATELY AS FOLLOWS:

ITEM	QUANTITY	UNIT
<u>ROADWAY ITEMS ITEMS:</u>		
MOBILIZATION	LUMP SUM	LS
CLEARING AND GRUBBING	LUMP SUM	LS
REMOVAL OF DRAINAGE STRUCTURE (ALL SIZES AND DEPTHS)	26.000	EA
REMOVAL OF SIGN INCLUDING POST & FOOTING (ALL TYPES AND SIZES)	63.000	EA
REMOVAL OF TRAFFIC SIGNAL	1.000	EA
REMOVAL OF CONCRETE COMBINATION CURB AND GUTTER	8,795.000	LF
REMOVAL OF FENCE	318.000	LF
REMOVAL OF TRAFFIC STRIPE (ALL TYPES)	7,665.000	LF
REMOVAL OF CONCRETE DRIVEWAYS, ALL DEPTHS	1,966.000	SY
REMOVAL OF LEGEND (ALL TYPES)	14.000	SY
REMOVAL OF PAVEMENT, ALL DEPTHS	18,363.000	SY
REMOVAL OF PAVEMENT, ALL TYPES AND DEPTHS	771.000	SY
REMOVAL OF PIPE (ALL SIZES)	1,001.000	LF
BORROW EXCAVATION (F.M.E.) (CONTRACTOR FURNISHED) (CLASS 9-8)	9,594.000	CY
EXCESS EXCAVATION (FM)	9,656.000	CY
STRUCTURE EXCAVATION	252.000	CY
CRUSHED STONE (SIZE 610)	5,948.000	TON
HOT MIX ASPHALT, (ST) (9.5MM)	434.000	TON
HOT MIX ASPHALT, (ST) (9.5MM)	822.000	TON
HOT MIX ASPHALT, (ST) (12.5MM)	621.000	TON
HOT MIX ASPHALT, (ST) (19MM)	2,393.000	TON
HOT MIX ASPHALT, (ST) (19MM), TRENCH WIDENING	17.000	TON
HOT MIX ASPHALT, (HT) (9.5MM), POLYMER MODIFIED	279.000	TON
HOT MIX ASPHALT, (HT) (9.5MM),	8.000	TON

SECTION 900
PROJECT NO. DECD-0018(35)BO
FORREST COUNTY

TRENCH WIDENING, POLYMER MODIFIED HOT MIX ASPHALT, (HT) (12.5MM) POLYMER MODIFIED	196.000	TON
HOT MIX ASPHALT, (HT) (19MM), POLYMER MODIFIED	868.000	TON
HOT MIX ASPHALT, (HT) (19MM), TRENCH WIDENING, POLYMER MODIFIED	23.000	TON
COLD MILLING OF BITUMINOUS PAVEMENT, ALL DEPTHS	3,146.000	SY
CLEANING AND SEALING CRACKS	3,000.000	LF
CLASS "B" STRUCTURAL CONCRETE, MINOR STRUCTURES	121.000	CY
REINFORCING STEEL	11,182.000	LB
18" REINFORCED CONCRETE PIPE, CLASS III, RUBBER GASKET	778.000	LF
24" REINFORCED CONCRETE PIPE, CLASS III, RUBBER GASKET	316.000	LF
18" REINFORCED CONCRETE PIPE	3.000	EA
END SECTION		
24" REINFORCED CONCRETE PIPE, END SECTION	2.000	EA
22"X13" REINFORCED CONCRETE ARCH PIPE, CLASS III	61.000	LF
29" X 18" REINFORCED CONCRETE ARCH PIPE, CLASS III	188.000	LF
10" CORRUGATED POLY VINYL CHLORIDE PIPE	58.000	LF
18" CORRUGATED POLY VINYL CHLORIDE PIPE	142.000	LF
10" PVC INLET	1.000	EA
18" PVC INLET	5.000	EA
CORRUGATED POLY VINYL CHLORIDE PIPE FITTINGS	LUMP SUM	LS
CASTINGS	4,456.000	LB
GRATINGS	2,881.000	LB
4" PERFORATED SEWER PIPE FOR UNDERDRAINS (SDR 26)	3,265.000	LF
4" NON-PERFORATED SEWER PIPE FOR UNDERDRAINS (SDR 26)	93.000	LF
6" NON-PERFORATED SEWER PIPE FOR UNDERDRAINS (SDR 26)	36.000	LF
2" NON-PERFORATED PIPE FOR FUTURE ELECTRICAL CONDUIT	400.000	LF
4" NON-PERFORATED PIPE FOR FUTURE IRRIGATION CONDUIT	1,200.000	LF
FILTER MATERIAL FOR FILTER BEDS, TYPE B	490.000	CY
GEOTEXTILE FOR SUBSURFACE DRAINAGE, TYPE III, AOS (0.15-0.43)	1,100.000	SY
CONCRETE SIDEWALK	1,955.000	SY

SECTION 900
PROJECT NO. DECD-0018(35)BO
FORREST COUNTY

CONCRETE DRIVEWAY, WITHOUT REINFORCEMENT, 6-INCH THICKNESS	515.000	SY
CONCRETE DRIVEWAY, WITH REINFORCEMENT, 5-INCH THICKNESS	1,819.000	SY
CONCRETE CURB, SPECIAL DESIGN, SLOTTED	1,915.000	LF
CONCRETE CURB, TYPE 1 DOWELED CURB	311.000	LF
CONCRETE CURB, TYPE 1 HEADER	1,971.000	LF
CONCRETE CURB (INTEGRAL) TYPE 1	194.000	LF
COMBINATION CONCRETE CURB AND GUTTER, TYPE 1 MODIFIED	5,101.000	LF
COMBINATION CONCRETE CURB AND GUTTER, TYPE 2	202.000	LF
COMBINATION CONCRETE CURB AND GUTTER, TYPE 3B MODIFIED	2,620.000	LF
ADJUSTMENT OF FENCE	LUMP SUM	LS
ADJUSTMENT OF PARKING BUMPERS	LUMP SUM	LS
ADJUSTMENT OF BICYCLE PARKING	1.000	EA
ADJUSTMENT OF PED. CROSSING SIGN & FLASHING BEACON	1.000	UN
ADJUSTMENT OF TRASH CAN	1.000	EA
CONCRETE ISLAND PAVEMENT, 10" THICKNESS	36.000	SY
CONCRETE ISLAND PAVEMENT STAMPED AND COLORED	393.000	SY
MAINTENANCE OF TRAFFIC PHASE 1	LUMP SUM	LS
MAINTENANCE OF TRAFFIC PHASE 2	LUMP SUM	LS
MAINTENANCE OF TRAFFIC PHASE 3	LUMP SUM	LS
MAINTENANCE OF TRAFFIC PHASE 4	LUMP SUM	LS
MAINTENANCE OF TRAFFIC PHASE 5	LUMP SUM	LS
MAINTENANCE OF TRAFFIC PHASE 6	LUMP SUM	LS
MAINTENANCE OF TRAFFIC PHASE 7	LUMP SUM	LS
4" WIDE TEMPORARY TRAFFIC STRIPE	15,500.000	LF
DETAIL TRAFFIC STRIPE	2,382.000	LF
4" WIDE THERMOPLASTIC TRAFFIC STRIPE (CONTINUOUS WHITE) (90 MILS)	0.025	MI
4" WIDE THERMOPLASTIC EDGE STRIPE (CONTINUOUS WHITE) (60 MILS)	0.376	MI
4" WIDE THERMOPLASTIC TRAFFIC STRIPE (CONTINUOUS YELLOW) (90 MILS)	472.000	LF
4" WIDE THERMOPLASTIC EDGE STRIPE (CONTINUOUS YELLOW) (90 MILS)	0.261	MI

SECTION 900
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FORREST COUNTY

THERMOPLASTIC DETAIL STRIPE (4" EQUIVALENT LENGTH) (WHITE) (90 MILS)	316.000	LF
THERMOPLASTIC DETAIL STRIPE (4" EQUIVALENT LENGTH) (YELLOW) (90 MILS)	2,316.000	LF
THERMOPLASTIC LEGEND (WHITE) (120 MILS)	3,408.000	LF
THERMOPLASTIC LEGEND (WHITE) (120 MILS)	1,749.000	SF
THERMOPLASTIC LEGEND (WHITE) (120 MILS)	46.000	SF
THERMOPLASTIC LEGEND (YELLOW) (60 MILS)	88.000	LF
6" THERMOPLASTIC TRAFFIC STRIPE SKIP WHITE	0.374	MI
6" THERMOPLASTIC TRAFFIC STRIPE CONTINUOUS WHITE	0.780	MI
6" THERMOPLASTIC EDGE STRIPE CONTINUOUS WHITE	0.913	MI
6" THERMOPLASTIC TRAFFIC STRIPE CONTINUOUS YELLOW	0.391	MI
6" THERMOPLASTIC EDGE STRIPE CONTINUOUS YELLOW	1.156	MI
THERMOPLASTIC DETAIL STRIPE SKIP WHITE (2' STRIP - 6' GAP)	92.000	LF
THERMOPLASTIC DETAIL STRIPE WHITE	8,557.000	LF
THERMOPLASTIC DETAIL STRIPE YELLOW	957.000	LF
THERMOPLASTIC DETAIL STRIPE, BLUE	347.000	LF
THERMOPLASTIC LEGEND, BLUE	46.000	SF
RED-CLEAR REFLECTIVE RAISED MARKERS	326.000	EA
TWO-WAY YELLOW REFLECTIVE RAISED MARKERS	317.000	EA
COLD PLASTIC DETAIL STRIPE, YELLOW (6" EQUIVALENT LENGTH)	344.000	LF
REFLECTORIZED TRAFFIC WARNING SIGN (ENCAPSULATED LENS)	22.000	EA
STANDARD ROADSIDE SIGNS FORREST GENERAL HOSPITAL EMERGENCY NEXT RIGHT	97.500	SF
STANDARD ROADSIDE SIGNS, FORREST GENERAL HOSPITAL EMERGENCY SECOND LEFT	97.500	SF
REFLECTORIZED TRAFFIC REGULATORY SIGN (ENCAPSULATED LENS)	67.000	EA
FLOWABLE FILL	11.000	CY
RETAINING WALL SYSTEM, MODULAR	250.000	SF

SECTION 900
PROJECT NO. DECD-0018(35)BO
FORREST COUNTY

12" TRENCH DRAIN	45.000	LF
<u>TRAFFIC SIGNAL ITEMS:</u>		
SOLID STATE TRAFFIC CABINET ASSEMBLY, TYPE III CABINET, TYPE 1 CONTROLLER	2.000	EA
POWER SERVICE PEDESTAL	2.000	EA
TRAFFIC SIGNAL EQUIPMENT POLE, TYPE II(L), 30' POLE, 45' ARM	1.000	EA
TRAFFIC SIGNAL EQUIPMENT POLE, TYPE III(L), 30' POLE, 50' & 55' ARM	1.000	EA
TRAFFIC SIGNAL EQUIPMENT POLE, TYPE III(L), 30' POLE, 50' & 60' ARM	1.000	EA
TRAFFIC SIGNAL EQUIPMENT POLE, TYPE III(L), 30' POLE, 60' & 60' ARM	1.000	EA
TRAFFIC SIGNAL EQUIPMENT POLE, TYPE VI, 8' POLE	2.000	EA
POLE FOUNDATIONS, CLASS "B" CONCRETE	17.000	CY
LUMINAIRE FIXTURE AND ARM, PER PLANS	4.000	EA
TRAFFIC SIGNAL HEAD, TYPE 1	10.000	EA
TRAFFIC SIGNAL HEAD, TYPE 2 FYA	3.000	EA
TRAFFIC SIGNAL HEAD, TYPE 3	2.000	EA
TRAFFIC SIGNAL HEAD, TYPE 4	1.000	EA
TRAFFIC SIGNAL HEAD, TYPE 4	1.000	EA
TRAFFIC SIGNAL HEAD, TYPE 4R	1.000	EA
TRAFFIC SIGNAL HEAD, TYPE 4R	3.000	EA
TRAFFIC SIGNAL HEAD, TYPE 6	4.000	EA
ELECTRICAL CABLE, UNDERGROUND IN CONDUIT, IMSA 20-1, AWG#14, 5 COND	578.000	LF
ELECTRICAL CABLE, UNDERGROUND IN CONDUIT, IMSA 20-1, AWG#14, 8 COND	889.000	LF
ELECTRICAL CABLE, UNDERGROUND IN CONDUIT, IMSA 20-1, AWG#8, 2 COND.	450.000	LF
ELECTRICAL CABLE, AERIAL SUPPORTED IN CONDUIT, IMSA 20-1, AWG#14, 7 CONDUCTOR	355.000	LF
PULLBOX ENCLOSURE, TYPE 1	4.000	EA
PULLBOX ENCLOSURE, TYPE 2	5.000	EA
PULLBOX ENCLOSURE, TYPE 3	2.000	EA
PULLBOX ENCLOSURE, TYPE 4	1.000	EA
TRAFFIC SIGNAL CONDUIT, UNDERGROUND, TYPE 4, 2"	2,077.000	LF
TRAFFIC SIGNAL CONDUIT, UNDERGROUND, TYPE 4, 3"	54.000	LF
TRAFFIC SIGNAL CONDUIT,	246.000	LF

SECTION 900
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PROJECT NO. DECD-0018(35)BO
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BY: /s/
City Clerk
Hattiesburg, Mississippi

Dates of Publication:
_____, 2020
_____, 2020

SPECIAL NOTICE TO BIDDERS

CONSTRUCTION SAFETY AND HEALTH STANDARDS

It is a condition of this contract, and shall be make a condition of each subcontract entered into pursuant to this contract, that the contractor and any subcontractor shall not require any laborer or mechanic employed in performance of the contract to work in surroundings or under working conditions which are unsanitary, hazardous, or dangerous to his health or safety, as determined under the following Federal regulations:

1. (a) Occupational Safety and Health Standards, Department of Labor,
Occupational Safety and Health Administration, Federal Register of October 18,
1972, pages 22102 to 22356.

(b) General Industry Guide for Applying Safety and Health Standards, OSHA
Publication No. 2072, U. S. Department of Labor, Occupational Safety and Health
Administration.
2. Safety and Health Regulations for Construction, Department of Labor,
Occupational Safety and Health Administration, Federal Register of December 16,
1972, pages 27503 to 27600.
3. Safety and Health Standards for Maritime Employment, Department of Labor,
Occupational Safety and Health Administration, Federal Register of October 19,
1972, pages 22458 to 22564.

**OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

NOTICE TO BIDDERS NO. 1

DATE: July 1, 2005

SUBJECT: BIDDING REQUIREMENTS AND CONDITIONS

REFERENCE: Section S-102.02 of 2004 Edition of the Standard
Specifications for Road and Bridge Construction

NOTICE TO BIDDERS
(ALL PROJECTS)

The current (2004) Edition of the Mississippi Standard Specifications for State Aid Road and Bridge Construction adopted by this Office on July 1, 2005, and approved by the Federal Highway Administration on July 1, 2005 is made a part hereof fully and completely as if it were attached hereto, except where superseded by special provisions, or amended by revisions of the Specifications contained herein. Copies of the specification book may be purchased from the Office of State Aid Road Construction.

A reference in any contract document to controlling requirements in another portion of the contract documents shall be understood to apply equally to any revision or amendment thereof included in the contract.

In the event the plans or proposal inadvertently contain references to the 1982 or 1989 Edition of the Mississippi Standard Specifications for State Aid Road and Bridge Construction, it is to be understood that such references shall mean the comparable provisions of the 2004 Edition of the Standard Specifications.

NOTICE TO BIDDERS
(FEDERAL AID PROJECTS)

The Contractor and sub-contractors shall submit one copy each of FORMS CAD-880, "Weekly Summary of Wage Rates" and CAD-881, "Weekly Statement of Compliance" each week to the State Aid Engineer and to the County Engineer. The Contractor and sub-contractors may at their discretion, submit two (2) copies of each form to the County Engineer, who in turn, shall forward one copy to State Aid. The forms may be obtained from:

Office Supervisor
Office of State Aid Road Construction
P.O. Box 1850
Jackson, Mississippi 39215-1850

**OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

NOTICE TO BIDDERS NO. 2

DATE: July 1, 2004

SUBJECT: HIGH VOLTAGE OVERHEAD LINES

**NOTICE OF WORK TO BE PERFORMED
IN PROXIMITY OF HIGH VOLTAGE POWER LINES**

In accordance with Section 45-15-1, et seq., Mississippi Code of 1972 (as amended effective July 1, 1988), _____ (herein after referred to as "Applicant") (Supervisor in Charge: _____), whose address is _____, and whose telephone number is _____, hereby gives notice to the electric utility (hereinafter referred to as "Utility") that Applicant will be performing functions or activities at the location of _____

_____ and that the estimated starting date of this work is _____. This work could reasonably be expected to cause persons, equipment or parts of tools or materials to be brought within ten (10) feet of Utility's high voltage lines at the proposed work area. Applicant hereby requests the Utility to confer with Applicant or his representative at the work site to ascertain the type of work activity that will take place and if further safety measures need to be taken by either the Applicant or the Utility. The Utility will give the Applicant a written cost estimate for safety arrangements to deter contact with on-site power lines. Applicant agrees not to perform such functions or activities until mutually satisfactory arrangements as provided by Section 45-15-9 have been made to deter contact with Utility's line.

Nothing contained in this Notice shall diminish or affect the obligation imposed upon the Utility under Section 45-15-1, et seq., or under existing laws or be construed as a waiver of the Applicant's or the Utility's rights under the law.

NOTICE GIVEN THIS, the _____ day of _____, _____.

APPLICANT

BY: _____

(Title)

Notice received by the Utility this the _____ day of _____, _____

**OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

NOTICE TO BIDDERS NO. 3

DATE: July 15, 2020

SUBJECT: SPECIALTY ITEMS

PROJECT: DECD-0018(35)BO COUNTY: FORREST

Pursuant to the provisions of Section S-108 of the Mississippi Standard Specifications for State Aid Road and Bridge Construction, 2004 Edition, the following work items are hereby designated as "Specialty Items" for this contract.

<u>Pay Item No.</u>	<u>Description</u>
<u>S-601-B</u>	<u>Class "B" Structural Concrete, Minor Structures</u>
<u>S-602-A</u>	<u>Reinforcing Steel</u>
<u>S-608-B</u>	<u>Concrete Driveway</u>
<u>S-609-D</u>	<u>Combination Curb and Gutter</u>
<u>S-616-A</u>	<u>Concrete Island Pavement</u>
<u>S-618-A</u>	<u>Maintenance of Traffic</u>
<u>S-618-B</u>	<u>Additional Construction Signs</u>
<u>S-621-B</u>	<u>4" Wide Thermoplastic Traffic Stripe (Continuous White)(90 MILS)</u>
<u>S-621-C</u>	<u>4" Wide Thermoplastic Edge Stripe (Continuous White)(60 MILS)</u>
<u>S-621-E-1</u>	<u>4" Wide Thermoplastic Traffic Stripe (Continuous Yellow)(90 MILS)</u>
<u>S-621-F</u>	<u>4" Wide Thermoplastic Edge Stripe (Continuous Yellow)(90 MILS)</u>
<u>S-621-G-1</u>	<u>Thermoplastic Detail Stripe (4" Equiv. Length)(White)(90 MILS)</u>
<u>S-621-G-2</u>	<u>Thermoplastic Detail Stripe (4" Equiv. Length)(Yellow)(90 MILS)</u>
<u>S-621-H-1</u>	<u>Thermoplastic Legend (White)(120 MILS)</u>
<u>S-621-H-2</u>	<u>Thermoplastic Legend (White)(120 MILS)</u>
<u>626-A</u>	<u>6" Thermoplastic Traffic Stripe Skip White</u>

Notice To Bidders No. 3

<u>626-B</u>	<u>6" Thermoplastic Traffic Stripe Continuous White</u>
<u>626-C</u>	<u>6" Thermoplastic Edge Stripe Continuous White</u>
<u>626-E</u>	<u>6" Thermoplastic Traffic Stripe Continuous Yellow</u>
<u>626-F</u>	<u>6" Thermoplastic Edge Stripe Continuous Yellow</u>
<u>626-G</u>	<u>Thermoplastic Detail Stripe Skip White (2' Strip - 6' Gap)</u>
<u>626-G</u>	<u>Thermoplastic Detail Stripe White</u>
<u>626-G</u>	<u>Thermoplastic Detail Stripe Yellow</u>
<u>626-G</u>	<u>Thermoplastic Detail Stripe, Blue</u>
<u>626-H</u>	<u>Thermoplastic Legend, Blue</u>
<u>S-627-C</u>	<u>Red-Clear Reflective Raised Markers</u>
<u>S-627-D</u>	<u>Two-Way Yellow Reflective Raised Markers</u>
<u>S-628-E</u>	<u>Cold Plastic Detail Stripe, Yellow (6" Equivalent Length)</u>
<u>S-630-A</u>	<u>Reflectorized Traffic Warning Sign (Encapsulated Lens)</u>
<u>630-A</u>	<u>Standard Roadside Signs, Forrest General Hospital Emergency Next Right</u>
<u>630-A</u>	<u>Standard Roadside Signs, Forrest General Hospital Emergency Second Left</u>
<u>S-630-B</u>	<u>Reflectorized Traffic Regulatory Sign (Encapsulated Lens)</u>
<u>907-632-A007</u>	<u>Solid State Traffic Cabinet Assembly, Type III Cabinet, Type 1 Controller</u>
<u>907-632-J001</u>	<u>Power Service Pedestal</u>
<u>907-634-A</u>	<u>Traffic Signal Equipment Pole, Type II(L), 30' Pole, 45' Arm</u>
<u>907-634-A</u>	<u>Traffic Signal Equipment Pole, Type II(L), 30' Pole, 50' & 55' Arm</u>
<u>907-634-A</u>	<u>Traffic Signal Equipment Pole, Type II(L), 30' Pole, 50' & 60' Arm</u>
<u>907-634-A</u>	<u>Traffic Signal Equipment Pole, Type II(L), 30' Pole, 60' & 60' Arm</u>
<u>907-634-A</u>	<u>Traffic Signal Equipment Pole, Type VI, 8' Pole</u>
<u>907-634-C001</u>	<u>Pole Foundations, Class "B" Concrete</u>
<u>907-634-PP001</u>	<u>Luminaire Fixture and Arm, Per Plans</u>
<u>907-635-A059</u>	<u>Traffic Signal Head, Type 1</u>
<u>907-635-A065</u>	<u>Traffic Signal Head, Type 2 FYA</u>

Notice To Bidders No. 3

<u>907-635-A070</u>	<u>Traffic Signal Head, Type 3</u>
<u>907-635-A073</u>	<u>Traffic Signal Head, Type 4</u>
<u>907-635-A074</u>	<u>Traffic Signal Head, Type 4R</u>
<u>907-635-A076</u>	<u>Traffic Signal Head, Type 6</u>
<u>907-636-B014</u>	<u>Electrical Cable, Underground In Conduit, IMSA 20-1, AWG#14, 5 Cond</u>
<u>907-636-B016</u>	<u>Electrical Cable, Underground In Conduit, IMSA 20-1, AWG#14, 8 Cond</u>
<u>907-636-B027</u>	<u>Electrical Cable, Underground In Conduit, IMSA 20-1, AWG#8, 2 Cond</u>
<u>907-636-D007</u>	<u>Electrical Cable, Underground In Conduit, IMSA 20-1, AWG#14, 7 Cond</u>
<u>907-637-A001</u>	<u>Pullbox Enclosure, Type 1</u>
<u>907-637-A002</u>	<u>Pullbox Enclosure, Type 2</u>
<u>907-637-A003</u>	<u>Pullbox Enclosure, Type 3</u>
<u>907-637-A004</u>	<u>Pullbox Enclosure, Type 4</u>
<u>907-637-C028</u>	<u>Traffic Signal Conduit, Underground, Type 4, 2"</u>
<u>907-637-C030</u>	<u>Traffic Signal Conduit, Underground, Type 4, 3"</u>
<u>907-637-D009</u>	<u>Traffic Signal Conduit, Underground Drilled or Jacked, Type 4, 2"</u>
<u>907-637-D013</u>	<u>Traffic Signal Conduit, Underground Drilled or Jacked, Type 4, 4"</u>
<u>907-639-B001</u>	<u>Type 1 Optical Detector</u>
<u>907-639-C001</u>	<u>Type 1 Optical Detector Cable</u>
<u>907-639-D001</u>	<u>Multimode Phase Selector</u>
<u>907-640-A001</u>	<u>Vehicle Loop Assemblies</u>
<u>907-640-B002</u>	<u>Shielded Cable, AWG #18, 4 Conductor</u>
<u>907-640-C002</u>	<u>Loop Detector Amplifier, 4 Channel</u>
<u>907-643-A004</u>	<u>Video Vehicle Detector Sensor Type 1A</u>
<u>907-645-B001</u>	<u>Accessible Pedestrian Detection Assembly</u>
<u>907-653-A001</u>	<u>Traffic Sign</u>
<u>907-653-A001</u>	<u>Traffic Sign</u>
<u>907-653-B001</u>	<u>Street Name Sign</u>

Notice To Bidders No. 3

<u>S-211-B</u>	<u>Topsoil for Slope Treatment (Contractor Furnished) (LVM)</u>
<u>S-212-A</u>	<u>Agricultural Limestone</u>
<u>S-212-B</u>	<u>Commercial Fertilizer (13-13-13)</u>
<u>S-212-F</u>	<u>Ammonium Nitrate</u>
<u>S-214-A</u>	<u>Seeding</u>
<u>226-A</u>	<u>Temporary Grassing</u>
<u>S-233-A</u>	<u>Temporary Silt Fence (Type II) (AOS 0.15 - 0.84)</u>
<u>246-A</u>	<u>Sandbags</u>
<u>907-237-A</u>	<u>Wattles, 20"</u>
<u>S-202-B</u>	<u>Removal of Fire Hydrant</u>
<u>S-604-C</u>	<u>Precast Manhole, 48" Diameter (Water Valve Vault)</u>
<u>S-604-C</u>	<u>Precast Manhole, 72" Diameter (Special Design)</u>
<u>S-613-D</u>	<u>Adjustment of Parking Lot Lighting System</u>
<u>S-613-E</u>	<u>Adjustment of Communication Vault</u>
<u>S-613-E</u>	<u>Adjustment of Fiber Optic Box</u>
<u>S-613-E</u>	<u>Adjustment of Manhole</u>
<u>S-613-E</u>	<u>Adjustment of Water Meter</u>
<u>S-613-E</u>	<u>Adjustment of Water Valve</u>
<u>901-S-613-F</u>	<u>Adjustment of Sewer Service Line</u>
<u>901-S-613-F</u>	<u>Fire Hydrant Assembly</u>
<u>901-S-613-G</u>	<u>Adjustment of 2" SDR-21 (Gasket Pipe) Water Main (All Depths)</u>
<u>S-211-B</u>	<u>Topsoil for Slope Treatment</u>

**OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

NOTICE TO BIDDERS NO. 5

DATE: JULY 15, 2020

SUBJECT: STATUS OF UTILITY ADJUSTMENTS AND RIGHTS-OF-WAY
ACQUISITION

1. All known utilities within the construction limits of this project are shown on the plans. The owners and addresses of these utilities are as follows:
 1. AT&T Telephone Co. - 100 Brunie Street, Hattiesburg, MS 39401
 2. Mississippi Power Co., 5082 Highway 42, Hattiesburg, MS 39401
 3. City of Hattiesburg Sewer Department, 900 James Street, Hattiesburg, MS 39401
 4. Comcast Cable, 2100 Lincoln Road, Hattiesburg, MS 39402
 5. Spire Energy, P. O. Box 1649, Hattiesburg, MS 39403

The Status of the adjustment of each of the utilities is as follows:

1. AT&T Telephone Co. has been notified of the project; the project is under review and the necessary adjustments will be made.
2. Mississippi Power Company has been notified of the project; the project is under review and the necessary adjustments will be made.
3. City of Hattiesburg Water and Sewer Departments have been notified of the project. All necessary revisions to City of Hattiesburg utilities are included in the project.
4. Comcast Cable has been notified of the project; the project is under review and the necessary adjustments will be made.
5. Spire Energy utilities have been relocated to not conflict with proposed improvements.

Subsection S-105.06 of the 2004 Edition of the Standard Specifications provides for cooperation between the Contractor and the Owner of utilities. All utility agreements are available for inspection by the Contractor. Additional assistance may be obtained by contacting the following:

**MISSISSIPPI ONE-CALL CENTER
BEFORE YOU DIG CALL:
MS 1-800-227-6477 JACKSON 362-4374
OUT OF STATE 1-800-445-1988**

- II. City of Hattiesburg has certified to the Office of State Aid Road Construction that it has title to all rights-of-way within the limits shown on the plans for this project.

(7/01/2004)

Notice to Bidders No. 6

July 6, 2020

In accordance with Senate Bill No. 2241 of the Mississippi Legislature Regular Session 1981, the industry wide current petroleum products base prices for contracts to be let in July 2020 are furnished as follows.

FUELS

	<u>Per Gallon</u>	<u>Per Liter</u>
Gasoline	\$1.5546	\$0.4107
Diesel	\$1.6574	\$0.4378

MATERIALS OF CONSTRUCTION

<u>ASPHALT CEMENT</u>	<u>Per Gallon</u>	<u>Per Ton</u>	<u>Per Liter</u>	<u>Per Metric Ton</u>
Viscosity Grade AC-5	\$1.7808	\$422.50	\$0.4704	\$465.72
Viscosity Grade AC-10	\$1.7829	\$423.00	\$0.4710	\$466.27
Viscosity Grade AC-20	\$1.7282	\$410.00	\$0.4565	\$451.94
Viscosity Grade AC-30	\$1.7282	\$410.00	\$0.4565	\$451.94
Grade PG-64-22	\$1.7071	\$405.00	\$0.4510	\$446.43
Grade PG-67-22	\$1.7609	\$417.78	\$0.4652	\$460.52
Grade PG-76-22	\$2.3709	\$562.50	\$0.6263	\$620.04
Grade PG-82-22	\$2.8082	\$666.25	\$0.7419	\$734.40

EMULSIFIED ASPHALTS, PRIMES, & TACK COATS

Grade SS-1	\$2.1692	\$0.5730
Grade RS-2C (CRS-2)	\$2.1131	\$0.5582
Grade CRS-2P	\$2.4244	\$0.5585
Grade EA-1, EPR-1, & AE-P	\$3.3000	\$0.8718
Grade CSS-1 & 1H (Undiluted)	\$2.1382	\$0.5649
Grade CSS-1 & 1H (Diluted 1 to 1 Fog Seal)	\$2.1700	\$0.5733

EARL GLENN, P.E.
STATE CONSTRUCTION ENGINEER

EG: tmb

**OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

NOTICE TO BIDDERS NO. 7

DATE: January 10, 2020

SUBJECT: PAYMENTS TO SUBCONTRACTORS

Bidders are hereby advised that each month, the Contractor will submit to the County/LSBP Engineer form OCR-484-SA certifying payments to all subcontractors. Form OCR-484-SA can be obtained from the Office Of State Aid Road Construction, MDOT Lab Building, 412 Woodrow Wilson Avenue, Jackson, MS, or on the State Aid website (<https://www.osarc.ms.gov>) under Documents->Contract Documents.

1. CONTRACTOR MUST SUBMIT THIS REPORT EACH MONTH TO THE COUNTY ENGINEER.
2. IF NO PAYMENTS ARE MADE THIS PERIOD, SUBMIT A NEGATIVE OR NO CHANGE REPORT TO THE COUNTY ENGINEER.
3. THE COUNTY ENGINEER WILL ATTACH THE OCR-484-SA TO THE MONTHLY ESTIMATE BEFORE SUBMITTING THE ESTIMATE TO THE OFFICE OF STATE AID ROAD CONSTRUCTION.
4. PROGRESS ESTIMATES MAY BE WITHHELD IF CONTRACTOR FAILS TO SUBMIT OCR-484-SA.

**OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

NOTICE TO BIDDERS NO. 8

DATE: November 8, 2011

SUBJECT: Errata and Modifications to the 2004 Edition of the Standard Specifications for State Aid Road and Bridge Construction

<u>Page</u>	<u>Subsection</u>	<u>Change</u>
1-21	S-103.02	In the third line of the last paragraph, change "contracts in the same" to "contracts, financed wholly with State funds, in the same".
1-42	S-105.17	In line (b) of the third paragraph, add "claim." at the end of the sentence.
1-47	S-106.04	In the next to last paragraph, change "TMD-22-0100-000" to "TMD-22-01-00-000" and change "TMD-21-0100-000" to "TMD-21-01-00-000".
1-84	S-109.06.2	In the eleventh line of the second paragraph, change "of material invoices" to "of paid material invoices".
<u>1-85</u>	<u>S-109.08</u>	Replace 4 th paragraph in it's entirety with "The established base prices for bituminous products and fuels shall be the prices for the month prior to the month of the bid date and are available on the State Aid Website."
1-87	S-109.08	On page 1-87, insert the following after item (A6) and before the paragraph in the middle of the page: "(A7) Asphalt for Fog Seal Mixture -- One half pay quantity in gallons."
1-87	S-109.08	Delete the last paragraph on the page in toto.
1-88	S-109.08	Under ADJUSTMENTS, change paragraph 5 to read as follows: No adjustment will be made for items of work accomplished after the expiration of Contract Time except for cases involving natural or manmade disasters or other reasons not inherent to the construction industry. The contractor will submit documentation for the adjustment to the Engineer for approval/disapproval. If approved, the Engineer will prepare a supplemental agreement explaining the adjustment and submit the proper number of copies of the agreement to the Board of Supervisors for their consideration and action. If approved by the Board, all copies will be forwarded to the State Aid Engineer for concurrence. Upon concurrence, the State Aid Engineer will, if necessary, forward the agreement to any other involved parties for their action. A copy of the approved agreement will be furnished to all parties by the State Aid Engineer.
2-7	S-202.07	In the first sentence of the first paragraph, change "S-202" To "S-202-A". In the first sentence of the second paragraph, delete "S-202-A".

<u>Page</u>	<u>Subsection</u>	<u>Change</u>
3-30	S-308.15	In the third pay item, change "per square yard**" to "per square yard". In the fourth pay item, change " <u>S-308-B-1</u> " to " <u>S-308-B-2</u> ".
4-8	<u>S-401.02.4</u>	At the end of the third sentence, delete the "." and add "and as a base course."
4-8	S-401.02.4	In the table at the end of the Subsection, for the 19 mm, change "2 ¼" to "2 ½" in the Minimum and change "3" to "3 ½" in the Maximum; for the 12.5 mm, change "2" to "2 ½" in the Maximum; for the 9.5 mm, change "1 ½" to "2" in the Maximum; and for the 4.75 mm, change "¾" to "1 ¼" in the Maximum.
4-23	S-401.03.1.4	In the first paragraph, change "92.0 percent" to "the specified percentage (92.0 or 93.0)".
4-32	S-403.03.3	In the first sentence of the second paragraph, change "acceptance and pavement" to "acceptance and payment".
4-45	S-409.02.2	Change "PG 64-22" to "PG 67-22".
6-2	S-601.06	In the first sentence, change "S-804.03" to "S-804.03.5".
6-7	S-602.05	Change the subsection reference for Bending from "S-805.05" to "S-805.03.2".
6-9	S-603.02	Change the subsection reference for Joint Mortar from "707.02" to "714.11".
<u>6-15</u>	<u>S-603.09</u>	After second sentence, add "All lift holes shall be filled and/or sealed to the satisfaction of the Engineer."
6-78	S-620.06	Change the first sentence of the second paragraph, from "Legend will be measured by the square foot.", to "Legend will be measured by the linear foot or square foot, as applicable."
6-78	S-620.07	In the sixth pay item, change "S-620-E-1" to "S-620-E-2".
7-17	S-702.12	In TABLE I, under the heading of Test, in the second line change "140°F, poises" to "275°F, C _s ".
7-20	S-703.02.1	In line (1) of the first paragraph, change "set-out" to "set out".
7-25	S-703.04.2	In the fifth paragraph, delete "S-703.04.3 and".
7-52	S-708.02.1.2	In the first sentence change "20 percent" to "25%".
7-104	S-714.13.1	Delete the fourth paragraph.
7-154	S-721.02.3.7	Delete Subsection S-721.02.3.7--Ground Plates in toto.
8-37	S-803.03.2.6	In the first sentence of the second paragraph, change "S-803.03.1.5.1" to "S-803.03.2.5".
8-45	S-803.04.1	Delete the second paragraph and replace with the following: Test piles which require extensions or building up will not be measured for additional payment. Splices required for the extensions will not be measured for payment.

<u>Page</u>	<u>Subsection</u>	<u>Change</u>
		No measurement for payment will be made for cut-off of a test pile.
8-50	S-803	Under <u>COMPENSATION</u> , In the seventh pay item, change " <u>S-803-G: Blank</u> " to " <u>S-803-G: Concrete Piling Cut-off, Size</u> - per each "
8-60	S-804.02.11	In the last sentence of the first paragraph, change "automatically" to "automatic".
8-64	S-804.02.13	In the second line of paragraph (c), place a period after psi and delete "provided both the QC and QA test results are equal to or exceed the minimum compressive strength requirements."
8-66	S-804.02.13.1.3	In the last sentence change, "S-804.02.13.1" to "S-804.02.12".
8-67	S-804.02.13.1.5	Change the equation for % Reduction to:
		$\% \text{ Reduction} = \frac{(f'_c - X)}{f'_c} \times 100$
8-121	S-806.04	In the first sentence of the third paragraph, change "by the unit (one unit consists of one wing on each side and end of the abutment cap)" to "per each".
8-121	S-806.08	Change " <u>S-806.08--Basis of Payment.</u> " to " <u>S-806.05--Basis of Payment.</u> "
8-122	S-806.08	In the first pay item, change " Interior" to "____ Interior".
<u>8-122</u>	<u>S-806.08</u>	On pay item S-806-H, add "or Steel Posts"

**OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

NOTICE TO BIDDERS NO. 10

DATE: July 1, 2005

SUBJECT: MONTHLY ESTIMATE RETAINAGE

The monthly retainage for this project shall be two and one half (2-1/2) percent (%) subject to the provisions found in Subsection **S-109.06.3--Retainage** on page 1-84 of the 2004 Edition of the Mississippi Standard Specifications for State Aid Road and Bridge Construction.

**OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

NOTICE TO BIDDERS NO. 11

DATE: **November 19, 2009**

SUBJECT: **CERTIFICATION OF 100 % PAYMENT TO SUBCONTRACTORS**

Bidders are hereby advised that within thirty (30) days of any Subcontractor completing 100% of any subcontracted work, the Prime Contractor shall make full payment to the Subcontractor (including retainage), complete the following certification, attach it to form OCR-484-S or OCR-484-SA, as applicable, and submit it to the County/LSBP Engineer. Retainage on the subcontract will then be released to the Prime Contractor on a subsequent estimate.

CERTIFICATION OF 100% OF PAYMENT TO SUBCONTRACTOR

Date: _____

Project No.: _____

County: _____

Prime Contractor: _____

Subcontractor: _____

I, _____, hereby certify
(Printed or typed name of Subcontractor)

that I have been paid 100% (including retainage) of the amount of work subcontracted on the above mentioned project in the amount of _____ and that I was paid within thirty (30) Days of when I completed said work.

(Signature of Subcontractor)

(Signature of Prime Contractor)

Falsification of this Certification is subject to prosecution.

**OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

NOTICE TO BIDDERS NO. 12

DATE: **May 10, 2006**

SUBJECT: **FIBER REINFORCED CONCRETE**

Bidders are hereby advised that synthetic structural fibers meeting the requirements of Supplemental Specification 901-S-711.04 may be used in lieu of wire mesh in some items of construction. Substitution of fibers for wire mesh will be allowed in the construction of paved ditches, paved flumes, paved inlet apron, driveways, guard rail anchors and pile encasements. Substitution in any other items of work must first be approved by the Engineer prior to use.

OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

NOTICE TO BIDDERS No. 15

DATE: March 11, 2010

SUBJECT: Hot Mix Asphalt Pavement Safety Edge

For the surface lift of hot mix asphalt, the contractor shall attach a manufactured shoe to produce a sound and durable compacted edge joint on the shoulder. The shoe shall be Advent-Edger by Advant-Edge Paving Equipment or Shoulder Wedge Maker (SWM) by Transtech Systems, Inc. An approved equal to these two devices will also be accepted.

During the first placement of the surface lift on the project the contractor shall demonstrate to the satisfaction of the engineer acceptable safety edge construction.

Pavement safety edge accepted will be paid for as an included item in the additional hot mix asphalt required for the safety edge, Pay Item S-403-A.

**OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

NOTICE TO BIDDERS NO. 16

DATE: November 3, 2008

SUBJECT: Safety Apparel

Bidders are advised that the Code of Federal Regulations CFR 23 Part 634 final rule was adopted November 24, 2006 with an effective date of November 24, 2008. This rule requires that “ **All workers within the right of way of a Federal-Aid Highway who are exposed either to traffic (vehicles using the highway for the purposes of travel) or to construction equipment within the work area shall wear high-visibility safety apparel**”. High-visibility safety apparel is defined in the CFR as “**personnel protective safety clothing that is intended to provide conspicuity during both daytime and nighttime usage, and that meets the Performance Class 2 or 3 requirements of the ANSI/ISEA 107-2004 publication entitled American Nation Standard for High-Visibility Safety Apparel and Headwear**”. All workers on County right-of-way shall comply with the Federal Regulation. Workers are defined by the CFR as “**people on foot whose duties place them within the right-of-way of a Federal-Aid Highway, such as highway construction and maintenance forces, survey crews, utility crews, responders to incidents within the highway right-of-way, and law enforcement personnel when directing traffic, investigating crashes, and handling lane closures, obstructed roadways, and disasters within the right-of-way of a Federal-Aid Highway**”.

You can access this final rule at the following link:

<http://a257.g.akamaitech.net/7/257/2422/01jan20061800/edocket.access.gpo.gov/2006/pdf/E6-19910.pdf>

Supplemental Specification
901-S-102-1
Bidding Requirements and
Conditions

OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DATE: March 11, 2010

SUBJECT: Bid Bond Agent

Delete the first sentence of the second paragraph of S-102.08 on page 1-19, and substitute the following:

If a bid bond is offered as guaranty, the bond must be on a form approved by the State Aid Engineer, made by a Surety, and must be acceptable to the Board and the State Aid Engineer and signed or countersigned by a Mississippi Agent or Qualified Nonresident Agent and the bidder.

OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DATE: March 11, 2010

SUBJECT: Contract Bond Agent or Liability Insurance Agent

Delete the last sentence of the paragraph of S-103.05 on page 1-22, and substitute the following:

The bond or bonds shall be negotiated for, procured from, signed or countersigned by, and the premium paid to a Mississippi Agent or Qualified Nonresident Agent of the Surety.

Delete the last sentence of the first paragraph of S-103.06.1 on page 1-22, and substitute the following:

Each policy shall be signed or countersigned by a Mississippi Agent or Qualified Nonresident Agent of the insurance company.

Delete the last sentence of the second paragraph of S-103.06.1 on page 1-23, and substitute the following:

Each policy shall be signed or countersigned by a Mississippi Agent or Qualified Nonresident Agent of the insurance company.

Supplemental Specification
901-S-104-1
Removal and Disposal of Structures
and Obstructions

OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DATE: July 1, 2005

SUBJECT: Changes in Character of Work and Changed Physical Conditions and Removal and Disposal of Structures and Obstructions:

Section S-104 - SCOPE OF WORK; of the MISSISSIPPI STANDARD SPECIFICATIONS FOR STATE AID ROAD AND BRIDGE CONSTRUCTION 2004 EDITION is hereby amended as follows:

901-S-104.02.1--Changes in Character of the Work and Changed Physical Conditions: Delete the last sentence of the first paragraph and add the following paragraphs:

Upon written notification, the Engineer will investigate the conditions, and if it is determined that the conditions materially differ and cause an increase or decrease in the cost or time required for the performance of any work under the contract, an adjustment, excluding anticipated profits, will be made and the contract modified in writing accordingly. The Engineer will notify the Contractor, in writing, of the determination whether or not an adjustment of the contract is warranted.

No contract adjustment which results in a benefit to the contractor will be allowed unless the contractor has provided the required written notice.

In the second paragraph, after the words " cannot be reached," delete "the State Aid Engineer" and insert "the Board, with the approval of the State Engineer,". Then delete the words "which the State Aid Engineer has" and insert "which the Board and the State Aid Engineer have".

901-S-104.05--Removal and Disposal of Structures and Obstructions: After the last paragraph on page 1-27, add the following paragraph:

The Contractor shall also furnish the Engineer a certified letter stating that the area of disposal is not in a wetland.

901-S-104.06--Rights in and Use of Materials Found on the Work: After the first sentence of the third paragraph insert the following sentence:

The Contractor shall also furnish the Engineer a certified letter stating that the area of disposal is not in a wetland.

SUBJECT: **STORM WATER POLLUTION PREVENTION PLAN**
PROJECT NUMBER: 178-11
COUNTY: Forrest

SITE INFORMATION

The construction at this site will disturb 10.0 acres. This site has a medium erosion hazard due to a silty clay (cl) soil type and slopes. It is in the Pascagoula Watershed Basin. The receiving stream, Gordon's Creek, from this site is not impaired.

SEDIMENT AND EROSION CONTROL REQUIREMENTS

VEGETATIVE CONTROLS: Permanent erosion controls (soil preparation, fertilizing, seeding, and mulching, sodding, and matting) will be placed as shown on the plans. Any disturbed areas laid-up for over 14 days will be seeded within 7 calendar days.

Buffer zones shall be maintained between land disturbing activities and perennial water bodies. Appropriate buffers will be maintained, as construction allows, and re-established when construction is complete near environmentally sensitive areas. Buffer zones are 5-feet from streams and 15-feet from the Right-of-Way.

Topsoil should be stockpiled and used in areas that will be re-vegetated. When final grade is reached it should be distributed to a minimum of 2 inches of 3:1 slopes and 4 inches on flatter slopes.

Heavy equipment use in areas to be re-vegetated should be avoided. If compaction cannot be avoided, the top 4 inches of the soil bed should be tilled before re-vegetation. Any necessary fertilizer or other soil amendments should be added during the tilling process.

STRUCTURAL CONTROLS: Temporary silt fence, straw wattles, sandbags, paved ditches, and riprap will be placed as shown on the plans. No linear areas of ten (10) or more disturbed acres are involved in this project. Therefore, no sediment basins are required.

Construction entrances/exits shall be installed wherever traffic will be leaving a construction site and moving directly onto a paved public road.

Storm drain inlets-inlets that could receive storm water from construction activities shall be protected by surrounding or covering with a filter material until final stabilization has been achieved. Protect the inlet with silt fence,

wattles, and/or sandbags to prevent sediment from entering before the curb and gutter is placed. Block and gravel curb inlet filters or sand bags may be necessary to prevent sediment from entering after the curb gutter is placed.

A concrete wash out area will be constructed in accordance to EPA Guidelines in areas approved the Engineer for concrete trucks to wash the mixer chutes and a memo will be sent to the concrete supplier to use a minimum amount of water. Drivers will be instructed to return any materials to the concrete batch plant and complete final washing procedures at that location.

HOUSEKEEPING PRACTICES: The contractor is reminded of his responsibilities as outlined in Section 107 of the Specifications which include equipment maintenance and repair, concrete chute wash-off, trash/debris, storage of chemicals and other toxic materials, and sanitary facilities. Storm water pollution prevention best management practice techniques are to be applied throughout the construction of this project the cost of which is to be included in regular bid items.

POST-CONSTRUCTION CONTROL MEASURES: Upon completion of construction, vegetative growth along the roadway foreslopes will provide a buffer zone for loose material originating from the roadway. Vegetative growth on the backslopes provides a buffer zone for loose material originating beyond the backslope. Flatter grades and ditch treatments minimize erosion. Paved ditches and flumes along with rock outlets are required.

IMPLEMENTATION SEQUENCE

1. Install silt fence, wattles, and other sedimentation controls as indicated on construction plans and standard detail sheets.
2. Build proper cross sections, grading the site and install silt fence around topsoil stockpiles. Install culverts/inlets with inlet/outlet protection (as indicated on plans).
3. Plant needed temporary vegetation on disturbed or problematic areas.
4. Construct roadway sections.
5. Plant permanent vegetation in all disturbed areas.
6. After site is stabilized, remove all temporary measures, vegetating these areas.

MAINTENANCE PLAN

The contractor and engineer will inspect all disturbed areas, erosion and sediment controls after each significant rainfall but not less than once per week and record the results of this inspection on the "Monthly Inspection Report and Certification Form for Erosion and Sediment Controls" included with the permit. The monthly inspection reports and this SWPPP will be available for inspection during construction and submitted to MDEQ with the Notice of Termination as required. The contractor shall make needed repairs to installed erosion control items weekly and after each significant rainfall as necessary. This includes, but is not limited to, removing sediment, repairing, reinstalling, or replacing silt fence, straw wattles, or other temporary erosion control measures, repairing washes, ditches, or other permanent erosion control devices.

DOCUMENTATION AND COMPLIANCE

SMALL CONSTRUCTION GENERAL PERMIT (SCGP): Construction Activities that disturb one acre to less than five acres require coverage under the Small CGP. The Small CGP requires no submittals to the MDEQ unless specifically requested. The contractor is responsible for all documentation on the project and for keeping it on file for at least three (3) years. Some examples of acceptable documentation include the Daily Diary/Log and Rainfall Documentation.

LARGE CONSTRUCTION GENERAL PERMIT (LCGP): Construction activities that disturb five acres or more require coverage under the Large CGP. The Contractor will have the responsibility for permit compliance in accordance with ACT 7 and ACT 9 for Large CGP. Additionally, the Contractor will conduct and maintain inspection records as required by permits. The Prime Contractor will be required to complete and submit the PRIME CONTRACTOR CERTIFICATION form in the Large Construction Forms Package to DEQ with a copy to the Engineer and State Aid prior to concurrence to award by State Aid.

The Prime Contractor will also be required to submit a written Pollution Prevention Plan (PPP) at the preconstruction conference as per S-107.22.5.

Supplemental Specification
901-S-107-2
Material Pits and Quarries

OFFICE OF STATE AID ROAD CONSTRUCTION

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DATE: July 01, 2005

SUBJECT: Material Pits:

Section **S-107- LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC**; of the MISSISSIPPI STANDARD SPECIFICATIONS FOR STATE AID ROAD AND BRIDGE CONSTRUCTION 2004 EDITION is hereby amended as follows:

901-S-107.23--Material Pits: Delete the first and second paragraph on page 1-66 and replace with the following paragraphs:

Before a pit (quarry) is opened (area cleared or overburden disturbed), furnish to the County Engineer a letter from the Executive Director of the Department of Archives and History, P. O. Box 571, Jackson, Mississippi 39205 (telephone number 601/ 576-6850), stating that the pit site is satisfactory from an archaeological and historical standpoint. Additionally, the contractor will furnish the Engineer either a copy of the " Notification of Exempt Operations" or a copy of the (permanent or temporary) Class II Permit approval from the Mississippi Department of Environmental Quality, Office of Geology.

For material pits located in Clarke, Covington, Forrest, George, Greene, Hancock, Harrison, Jackson, Jones, Lamar, Pearl River, Perry, Stone and Wayne Counties, the Contractor will be required to make special considerations regarding gopher tortoises. In addition to the normal required documentation associated with material pits, the Contractor shall, for each site used to obtain or dispose of materials associated with material pits located in these Counties, provide the Engineer with a letter from a qualified biologist certifying that the site was inspected prior to any clearing of vegetation or disposal of project materials and that the site is not inhabited by gopher tortoises, or appropriate avoidance measures have been installed. No individual lacking the proper State or Federal license shall touch or otherwise harass a gopher tortoise.

All costs involved in obtaining letters of clearance shall be born by the Contractor

Supplemental Specification
901-S-107-3
Permits, Licenses and Taxes

OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DATE: May 10, 2006

SUBJECT: Permits, Licenses and Taxes:

Section S-107-LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC; of the MISSISSIPPI STANDARD SPECIFICATIONS FOR STATE AID ROAD AND BRIDGE CONSTRUCTION 2004 EDITION is hereby amended as follows:

901-S-107.02-Permits, Licenses and Taxes. Delete in toto Subsection 107.02 on page 1-50, and substitute the following:

Except as provided in S-107.09, and S-107.22, the Contractor or Subcontractor shall procure all permits and licenses, pay all charges, fees, and taxes, and give all notices necessary and incidental to the due and lawful prosecution of the work. At any time during the life of this contract, State Aid may audit the Contractor's or Subcontractor's compliance with the requirements of this section.

The Contractor or Subcontractor is advised that the "Mississippi Special Fuel Tax Law", Section 27-55-501, et seq. and the Mississippi Use Tax Law, Section 27-67-1, et seq., Mississippi Code of 1972, Annotated, and their requirements and penalties apply to any contract or subcontract for construction, reconstruction, maintenance or repairs, for contracts or subcontracts entered into with the State of Mississippi, any political subdivision of the State of Mississippi, or any Department, Agency, Institute of the State of Mississippi or any political subdivision thereof.

The Mississippi State Tax Commission will be notified of the name and address of Contractors or any Subcontractors that are awarded State Aid contracts. The Contractor or Subcontractor will be subject one or more audits during the life of this contract to make certain that all applicable fuel taxes are being paid promptly as outlined in Section 27-55-501, et seq., Mississippi Code of 1972, Annotated, and any sales and/or use taxes, as outlined in Section 27-67-1, et seq., Mississippi Code of 1972, Annotated are being paid in compliance with the law.

Supplemental Specification
901-S-212-1
Agricultural Limestone

OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DATE: January 01, 2005

SUBJECT: Agricultural Limestone

Section S-212-GROUND PREPARATION AND FERTILIZER; of the MISSISSIPPI STANDARD SPECIFICATIONS FOR STATE AID ROAD AND BRIDGE CONSTRUCTION 2004 EDITION is hereby amended as follows:

901-S-212.07 -- Basis of Payment. Insert the following paragraph before the first paragraph on page 2-37:

Agricultural limestone will be paid for at the contract unit price per ton. Grade "A" agricultural limestone with an equivalent neutralizing value (ENV), determined in accordance with Subsection 901-S-715-02.2.1.3, of between 60.0% and 62.9% will be paid for at half ($\frac{1}{2}$) the contract price per ton. No payment will be made for Grade "A" agricultural limestone with and ENV less than 60.0%.

Delete the first pay Item listed on page 2-37 and substitute the following:

901-S-212-A: Agricultural Limestone - per ton

Supplemental Specification
901-S-603-1
PVC Inlets

OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DATE: July 15, 2020

SUBJECT: PVC Inlets

STANDARD SPECIFICATION

Manufacturer: Nyloplast

Product: 18 In Drain Basin

Drawing No.: 7001-110-191

1. Grates/solid cover shall be ductile iron per ASTM A536 Grade 70-50-05.
2. Frames shall be ductile iron per ASTM A536 Grade 70-50-05.
3. Drain basin to be custom manufactured according to plan details. Risers are needed for basins over 84' due to shipping restrictions. See drawing no. 7001-110-065.
4. Drainage connection stub joint tightness shall conform to ASTM D3212 for corrugated HDPE (ADS N-12/Hancor Dual Wall), N-12 HP, & PVC sewer.
5. Adapters can be mounted on any angle 0° to 360°. To determine minimum angle between adapters see drawing no. 7001-110-012.

GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS H-10	1899CGP	7001-110-212
STANDARD	MEETS H-20	1899CGS	7001-110-213
SOLID COVER	MEETS H-20	1899CGC	7001-110-214
DOMES	N/A	1899CGD	7001-110-215
DROP IN GRATE	LIGHT DUTY	1801DI	7001-110-074

END OF SECTION

OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DATE: July 15, 2020

SUBJECT: Water Mains & Appurtenances

1.0 CONSTRUCTION REQUIREMENTS

- A. Trench Excavation: (Main Line) The pipe shall be laid in open cuts or trenches, except as hereinafter provided for, which shall be so excavated as to provide at least six inches (6") clearance between the side of the pipe and the sides of the trenches or the timber used in shoring it. For service line excavation, width of trench for service shall in no case be greater than twelve inches (12").

The trench shall be so excavated that its sides will be as nearly vertical as possible. If it should appear necessary to slope the sides of the trench, such sloping shall be first approved by the Engineer and shall not unnecessarily increase the width and amount of paving or other surfacing to be replaced where such trenches are within street right-of-way.

The bottom of all trenches shall be carefully shaped, graded and aligned in accordance with the instructions of the Engineer and to his complete satisfaction before any pipe is placed. The trench shall be shaped or cut under and around all joints to provide adequate room for making the joint and to provide uniform and continuous contact and support throughout the entire length of each joint of pipe. Care shall be used to drain, pump, or bail out all water and to avoid loosening or working up the bottom of the trench unnecessarily by excessive tramping or otherwise.

The Contractor shall exercise diligence to see that the excavation is not carried below the grades established or directed by the Engineer. However, in the event this should occur, the bottom of the trench shall be filled back to grade with approved material and thoroughly compacted in a manner satisfactory to the Engineer, without extra compensation to the Contractor.

On each street the pipe line shall be kept at a uniform distance from the center-line of the street, in straight, or easy curved lines, as directed by the Engineer.

Material excavated shall be deposited so as to interfere the least practicable with public traffic and convenience of adjacent residents. A berm at least two (2) feet in width shall be left along side of the trench to allow for free passage of the men engaged on the work.

Extreme care shall be exercised to avoid disturbance of any gas, sewer, or drain pipe, culvert, bridge, or other facility which may be encountered. Any such facility which

may be molested in any way, either unavoidably, or otherwise shall be replaced in exactly the same condition as when found, without additional compensation. At no time shall the excavation of trenches proceed greatly in advance of the completed pipe line nor shall excessive lengths of trench be left unfilled in the rear thereof. The Engineer shall have the right to specifically limit, as he deems advisable, the distance to which the trench may be opened. (See paragraph on "Backfilling".)

The trench shall, however, proceed far enough ahead of pipe laying to discover any obstruction which may cause the alignment, as deviations from a straight line, of more than one-foot in twenty-five (25) feet will not be permitted.

The depth of cover over the pipe shall, in general, not be less than three (3) feet at any point and the intention and effort will be to maintain this depth of cover as nearly uniform as possible. Should it become necessary, however, in passing under existing obstructions, or whenever in the opinion of the Engineer, the pipe should be laid deeper to avoid danger of disturbance by traffic, or to prevent interference with other structures to be placed in the future, the excavation shall be made to any depth which the Engineer may direct and the pipe laid at such depth. If the depth of cover does not exceed four (4) feet no extra compensation will be allowed therefore. In the event, however, that the depth of cover exceeds four feet (4') the Contractor will be paid for such extra excavation by item "Extra Depth Excavation" as noted in Proposal.

All material from the excavations shall be loaded onto trucks and hauled off site as the trench excavation is proceeding. The Contractor will not be allowed to store excavated material on site.

- B. **Sheeting and Bracing:** The Contractor shall furnish and properly place such sheeting and bracing as may be required to support the sides of the trench, to protect the workmen and pipe or adjacent structures from possible injury. Such sheeting and bracing may be removed as the trench is backfilled or may be left in place where necessary to prevent caving or damage, but where left in place it shall not extend within one foot (1') of the surface. In no case will extra compensation be allowed for furnishing, placing or removing such sheeting and bracing. The cost of all sheeting and bracing, whether left in place or removed shall be included in the unit prices bid for installing the pipe.
- C. **Pipe Laying:** Pipe, Specials and Fittings shall be carefully laid to the line and grade established or directed by the Engineer. Each length of pipe when placed shall have a uniform bearing for the entire length of pipe. The inside of all pipe and the outside at all joints shall be thoroughly cleaned before they are placed, and the inside of all pipes shall be kept clean and free of all obstructions and foreign matter until the work is completed and accepted.

Supplemental Specification
901-S-613-1
Water Mains & Appurtenances

Where pipe laying is stopped at the end of the day, or for any cause, the end of the pipe shall be securely closed to prevent the entrance of water, mud, or obstructions.

All pipe shall be carefully lowered into the trench so as not to damage the pipe or coating.

Where pipes must be cut to bring valves, hydrants, or other connections to the required location, this work shall be done by the Contractor without extra compensation and in a manner satisfactory to the Engineer.

- D. Setting Fittings, Valves, Hydrants, Etc.: All fittings, valves, and valve boxes, hydrants, and other appurtenances are to be set at the points indicated on the Plans, or as directed by the Engineer, and omission to do so shall be corrected by the Contractor without extra cost to the Owner.

Hydrants shall be set on a stone or concrete base at least fifteen (15) inches square and four (4) inches thick. They shall stand erect and the proper length shall stand above the ground, extension sections being added if and as required.

Beneath and around each hydrant, and extending at least above the drip, shall be placed an adequate amount of bricks, rocks or coarse gravel. If the extension sections are added, the quantity of bricks, rocks or coarse gravel shall be proportionately increased. The ground shall be securely tamped up to the surface around each hydrant and smoothed over the same as for trenching.

Hydrants, valves and fittings (bends, tees, plugs, and caps) shall be mechanically restrained to prevent the possibility of blowing off under pressure.

Over each valve, a valve box shall be properly and firmly set so that its cover will be flush with the surface of the ground, or roadway, as the case may be.

- E. Testing: Each section of new work shall be tested under a hydrostatic pressure of 125 lbs. per square inch. Where practical, such tests should be conducted between line valves or plugs spaced not over fifteen hundred (1500') feet apart. Such tests shall be made before backfilling at joints, except where otherwise required by necessity or public convenience. The duration of the test shall be twenty-four (24 hrs.) hours unless otherwise directed by the Engineer. All visible leaks at exposed joints, and all leaks evident on the surface, where joints are covered, shall be eliminated, regardless of the total leakage shown by the tests. No pipe installation will be accepted if the leakage is greater than that determined by the following formula:

$$L = \frac{SD(P)^{1/2}}{133200}$$

in which L is the allowable leakage, in gallons per hour; S is the length of pipe tested, in feet; D is the nominal diameter of the pipe, in inches; & P is the average

test pressure during the leakage test, in pounds per square inch gauge: (all in accordance with AWWA Standard C600 -82). Lines which fail to meet tests shall be removed, if necessary or repaired and re-tested until compliance with test requirements is effected.

These tests are to be made at the Contractor's expense, and he shall provide all necessary fittings and appliances therefore.

- F. Backfilling: A sand material as approved by the Engineer shall be used for bedding in and around the pipe. This material shall be thoroughly tamped with such special tools as the Engineer may direct so as to form an even and compact bed. In all cases, however, the joints shall be left uncovered until the line has been tested as hereinbefore provided, unless the Engineer shall direct otherwise.

After the line has been tested and the Engineer has pronounced the joints satisfactory and all records of location of line and fittings have been recorded, the trench shall be filled around and over the joints as above provided. The remainder of the trench shall be backfilled with selected sand clay-gravel material from other sources in sufficient quantity to complete the backfill. All such backfill material shall be placed in uniform 6" layers, each layer being thoroughly compacted to 95% standard proctor density at the proper moisture content up to the surface. Mechanical tampers or other approved mechanical methods may be used for this purpose. On-site plastic clays will not be allowed as backfill material.

All surplus earth resulting from trenching or other excavation shall be removed and disposed of as directed by the Engineer as the work progresses.

After the above operations are completed, a backfilling gang shall be sent as often as necessary over the area in which work has been done under this contract, and the work areas shall be leveled up and cleared of objectionable material and rubbish; and the streets, sidewalks, gutters, crossings, driveways and other property, left in as good condition as when found by the Contractor, insofar as practicable.

- G. Cleaning and Sterilizing: Before each section of work is placed in service, it shall be thoroughly flushed out to remove any dirt or other foreign material from inside the lines; and the inside of the lines shall be sterilized by pumping into and through them a solution of such amount and such manner as to meet the requirements of the State Board of Health. As a minimum, a 50 mg/l dosage of chlorine for 24 hours will be required. Other methods of cleaning and sterilizing may be used if approved by the Engineer.

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After completion of all work in designated sections of the distribution system, at least two samples of chlorine-free water shall be taken by the Registered Project Engineer, certified operator or a representative of the Mississippi State Department of Health, which shall be submitted to the State Board of Health for examination to determine if the system is free from organisms of the Coli-Aerogenous group. If such samples are not negative for organisms of the Coli-Aerogenous group, the system shall be disinfected and re-disinfected in a manner meeting the requirements of the State Board of Health until the system is freed of contamination.

- H. Service Lines: Service lines as shown on the plans shall be installed from the new main to the street right-of-way line, or as directed by the Engineer. Service lines will be provided with corporation stops at the main and with curb stops at the street right-of-way line.

Service lines shall be laid to the line and grade established or directed by the Engineer, but shall in no case be less than eighteen (18") inches below the surface of the ground. Where necessary, however, to place service lines at elevations more than eighteen (18") inches below the surface of the ground for the purpose of avoiding obstructions or for any other reasons which, in the opinion of the Engineer, makes such advisable, the pipe shall be laid to any depth which the Engineer may direct.

1.2 MATERIALS

A. Pipe, Fittings, and Joints:

1. Ductile Iron Pipe: All ductile iron pipe used in the work shall be manufactured in accordance with ANSI Standard A21.51 (AWWA C151, A21.52 and Federal Specifications WW-P-421d. The pipe shall be new having push-on joints conforming to ANSI A21.11 (AWWA C111) of latest revisions and manufactured for a minimum of 150 psi working pressure. All pipe shall be furnished in 16 or 18 feet nominal laying lengths.

All ductile iron fittings shall be new fittings conforming to ANSI A21.10 (AWWA C110). The fittings shall have push-on joints conforming to ANSI A21.11 (AWWA C111). Pipes and fittings shall be cement lined and tar coated in accordance with the requirements of ANSI A21.4 and A21.5 respectively.

2. Concrete Pressure Pipe: All concrete pressure pipe furnished under this specification shall be prestressed concrete cylinder pipe, designed and manufactured in accordance with the latest revision of "AWWA Standard C301 for Prestressed Concrete Pressure Pipe, Steel Cylinder Type, for Water and Other Liquids" as manufactured by Price Brothers Company of Hattiesburg, Mississippi.

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The pipe shall be furnished complete with gaskets, diaphragms, and lubricant as required for proper installation and completion of the line. Fittings shall be as described in AWWA C301. Outlets or other connections built into prestressed pipe sections shall be suitably reinforced. Long radius curves or small angular changes in the pipeline can be formed by deflecting joints of straight pipe or by using pipe sections with one end beveled not more than 4 1/2 degrees to the axis of the pipe. Flange outlets with blind flange covers shall be furnished complete with flange gasket, nuts, and bolts. The pipe supplier shall furnish all accessories needed when restrained joints are required.

The pipe supplier shall provide to the Engineer shop drawings of the specials and fittings and shall make available a pipe schedule indicating sequence of installation of pipe, fittings, specials, and the elevations and stationing of the line at key points such as outlets, bends, and changes in grade.

In the case of railroad crossings, the water main installation should conform to all requirements of the railroad company. In general, the carrier pipe should have mechanical joints while the casing pipe should be steel with welded joints. Permits have been obtained by the Owner and are available for review at the Engineer's office.

3. Polyvinyl Chloride (PVC) Plastic Pipe and Fittings:

- a. Specifications: Plastic pipe and fittings shall be National Sanitation Foundation approved, Type I, Grade I, PVC in accordance with ASTM Specification D-1784. All pipe shall be suitable for use at hydrostatic pressures of 160 P.S.I. or greater at 73.4°F, and shall meet the requirements of Commercial Standard CS-256-63 for type 1120 material made to SDR 26 dimensions. Marking and testing shall be in accordance with above specifications. Pressure class pipe shall conform to standard specification AWWA C-900.

PVC fittings, adapters, flanges, etc., shall be manufactured and/or supplied by the same manufacturer as that of the pipe and shall be standard weight Schedule 40, Type I, PVC or heavier suitable for working pressures as great or greater than that of the pipe and/or accessories with which they are used.

All fittings shall be furnished and assembled with rubber ring gasket bells by the pipe manufacturer. Marking and testing shall be in a similar manner to that specified for PVC pipe.

4. Polyvinyl Chloride (PVC C-900) Plastic Pipe and Fittings:

- a. Specifications: PVC pipe shall meet the requirements of AWWA C-900 "Standard for Polyvinyl Chloride (PVC) Pressure Pipe, 4 in. through 12 in.

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for Water", and shall be furnished in cast-iron pipe equivalent outside diameters with rubber-gasketed separate couplings as listed in that standard.

PVC fittings, adapters, flanges, etc. shall be manufactured and/or supplied by the same manufacturer as that of the pipe and shall be suitable for working pressures as great or greater than that of the pipe and/or accessories with which they are used.

5. Payment:

- a. Pipe: Payment will be made at the contract unit price per linear foot for pipe furnished and installed in accordance with above specifications. Payment shall be full compensation for furnishing and installing the pipe, joint accessories, excavation, backfilling, and all work incidentals thereto. All measurements shall be made parallel to the line of the pipe after installation and no deduction will be made for valves and specials, or fittings. Where a branch line extends from a pipe line, measurement will be made from the point of intersection of the projected center lines of the two pipes. Hydrant stubs shall be measured from the center of the main to the center of the hydrant.

No extra allowance will be made for joint accessories. Payment for such accessories shall be considered as included in the unit prices bid for pipe.

- b. Fittings: Payment for fittings will be made at the contract unit price per each as listed in the proposal, for furnishing and installing new fittings in accordance with these specifications. The prices bid shall constitute full compensation for furnishing and installing fittings complete in place, including mechanical restraint as required.

Weights shall be computed based on the catalog weight for each type and size of fitting used in accordance with the specifications.

B. Gate Valves and Boxes:

1. Specifications: All gate valves shall be of cast iron body, bronze or brass mounted, double-disc, parallel seat type made strictly in accordance with the specifications of the American Water Works Association C500 (200 lbs. working pressure, 350 lbs. hydrostatic test). Valves furnished shall be AWWA Gate Valves, as manufactured by Mueller Company or approved equal. Valve boxes shall be either two-piece or three-piece, sliding type, cast iron valve boxes with plug type lids marked "WATER". The bell end of the lower section of all valve boxes shall be of sufficiently large diameter to fit over the stuffing box of the valve with which it is to be installed. Valve box shall be as manufactured by Mueller Company or approved equal and shall be suitable for use with valves

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installed on water lines having a nominal thirty-six (36") inch depth of cover over the pipe but capable of adjustment to such additional depth as conditions may require.

2. Payment: Payment will be made at the contract unit price per gate valve of size indicated in the Proposal for valves and boxes furnished and installed in accordance with these specifications. The prices bid shall constitute full compensation for furnishing and installing valves and boxes complete in place as specified, including mechanical restraint.

C. Mechanical Restraints:

1. Mechanical restraint devices shall be used at pipe joints near bends, tees, wyes and valves. Such devices must conform to manufacturer's recommendations for the type of pipe, fittings, and valve materials used.
2. Mechanical restraints shall be as manufactured by EBAA Iron Sales, Inc., or approved equal.

1.3 SEPARATION OF WATER AND SEWER MAINS

- A. 10' horizontal separation and 18" vertical separation (with the water above the sewer) shall be maintained at all times. If these requirements cannot be met, it will be reviewed on a case by case basis.

1.4 REPAIRS TO PAVEMENT CUTS ON DRIVEWAYS AND STREETS

When it becomes necessary to cut the existing pavement on driveways or streets for the purpose of installing water mains, and appurtenances, the Contractor shall restore or repair such cuts in a manner consistent with the best standard practice and in accordance with the following specifications:

Prior to the trenching operations, the pavement or surfacing shall be cut out along a smooth line, substantially vertical face, and as near as practical along lines parallel with the pipe line. Trench backfilling and compacting will be made according to the following specifications: The backfill material will be a clay-gravel select material approved by the Engineer, prior to placement, placed in six inch (6") layers, thoroughly compacted with a pneumatic tamp, to 100% of the Standard Peak Dry Density. Immediately prior to the initiation of operations for the replacing of pavement or surfacing, the trench shall be excavated to such a depth as is required to receive the base and pavement.

Streets or driveways surfaced with asphaltic material shall be backfilled carefully in accordance with these specifications and thoroughly compacted to its maximum density. Allowances shall be made for replacing the base and surface of the pavement cut with materials of equivalent thickness and types as the original base and surface.

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Streets, driveways or walks with concrete pavement surface shall be backfilled carefully in accordance with these specifications and thoroughly compacted to its maximum density allowing five inches (5") of concrete paving.

Any pavement or surfacing, destroyed or damaged beyond the outside diameter of the pipe plus sixteen inches (16"), shall be repaired or replaced in accordance with these specifications.

Payment for repairs to pavements cuts on driveways or streets will be included in Pay Item No. 2 - Discharge and Yard Piping and shall constitute full compensation for the work necessary to complete the work in accordance with these specifications and as shown on the plans. No separate payment will be made for this item.

END OF SECTION

Supplemental Specification
901-S-613-2
Sanitary Sewer System

OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DATE: July 15, 2020

SUBJECT: Sanitary Sewer System

1.01 PVC SEWER PIPE INSTALLATION:

- A. All pipe shall be inspected upon arrival. If any portion of a shipment is found to be defective in diameter or thickness, or found to be contaminated with fuel exhaust or any hydrocarbon material, the entire shipment shall be rejected and removed from the Project at no cost to the OWNER. Each section of pipe shall again be thoroughly inspected immediately prior to lowering it into the trench to insure that the interior is clean and to check for joint scratches, chipped ends, and imperfect gasket seats. Any and all defective pipe or fittings shall be rejected and removed from the job site. Any defective pipe or fitting discovered after the pipe is laid shall be removed and replaced with a satisfactory pipe or fitting without additional charge.
- B. Handling - Pipe, fittings, manhole sections and accessories shall be loaded and unloaded by lifting with hoists or skidding so as to avoid shock or damage. Under no circumstances shall such materials be dropped. Pipe handled on skidways shall not be skidded or rolled against other pipe.
- C. Care shall be taken to protect PVC pipe from prolonged exposure to direct sunlight (ultraviolet rays).
- D. Excavated and Construction Materials - All excavated material and all construction materials used in prosecution of the work shall be deposited so as not to endanger the work, create unnecessary annoyance to the public, or interfere with natural drainage courses. During the progress of the work, all material piles shall be kept trimmed up and maintained in a neat, workmanlike manner.
- E. Excavation and Backfilling for Sewer Pipe and Structures: Excavate in open cut all substances encountered to depth shown on drawings except where installation of cased sewer pipe is called for, if any.
 - 1. In areas outside of existing or proposed paving, the remainder of the trench may be backfilled with select on-site soil deemed suitable for reuse by the Engineer. In areas beneath existing or proposed paving, the remainder of the trench shall be backfilled with select fill (borrow excavation – contractor furnished) consisting of a PI between 8 and 12 with a LL not more than 25.
 - 2. Dispose of surplus material, if any, on a free-haul-off basis.
 - 3. Maintain excavation to within plan depths.
 - 4. Backfill any excess cuts below plan grade with washed gravel bedding, without

- expense to the Owner.
5. Maintain area adjacent to excavation in such a way as to avoid drainage of surface water into excavation.
 6. Maintain "dry" trench and excavation by pumping, bailing, draining, or well pointing.
- F. Noise, Dust and Odor Control - The CONTRACTOR's construction activities shall be conducted so as to eliminate all unnecessary noise, dust and odors. The use of oil or other material that may cause tracking for dust control shall not be permitted.
- G. Installation shall be in accordance with ASTM D 2321.
- H. The pipe manufacturer shall provide installation instructions and literature to the CONTRACTOR so that he will be aware of the manufacturer's recommended procedure and practice for installing the pipe and fittings. Copies of these instructions and other literature shall also be provided to the OWNER and ENGINEER. This instruction shall be included at no additional cost to the OWNER. The CONTRACTOR shall install all pipe and fittings according to the manufacturer's recommendations. The ENGINEER will not make recommendations or approve installation methods. Any failures of materials resulting from installation techniques (recommended by manufacturer or not) as well as labor associated with removal and replacement of failed materials will be the sole responsibility of the CONTRACTOR. The OWNER will not pay additional costs for failures of materials which result from installation procedures (regardless of whether or not the CONTRACTOR follows the manufacturer's installation guidelines).
- I. Before laying the pipe out of the downstream manhole, any obstructions upstream of the manhole that may necessitate changing the line or grade of the pipeline shall be uncovered. The CONTRACTOR shall verify alignment, elevations, and grades prior to proceeding. The CONTRACTOR will be responsible for any necessary relaying and/or relocating of the pipe if the pipe is laid before verifying locations and elevations of known potential obstructions.
- J. Pipe Trenches: Excavate trench to width of 6" minimum clearance and 9" maximum clearance each side of barrel of pipe.
1. Curve rounded trench bottom so that an arc equal to one fourth of outside of circumference of pipe rests on undisturbed material and/or bedding.
 2. Cut bell holes accurately to size.
 3. Safeguard all underground cables, lines, pipes, and conduits in excavation.
 4. Perform hand excavation adjacent to existing lines and services .
 5. Assume all responsibility for damages to persons property arising from disruption of underground features.
 6. If interference between sewer and existing facility is encountered, notify Engineer so that provisions can be made for adjustment in a timely manner.
 7. Conform to Engineer's instruction on adjustment of sewer line or otherwise.
- K. Bedding: Class "B" bedding will be standard for this project, unless special bedding is

authorized.

1. Replace any unstable soil encountered at plan depth with Class "B" bedding material upon authorization of Engineer.
2. Class B bedding shall consist of a 2 inch cushion of sand shaped with a template to a concave saddle in compacted or natural earth to such a depth that 15 percent of the height of the pipe rests on the sand cushion below the adjacent ground line.

L. Trench Support - Unsupported open cut for sewers will not be permitted where trenching may cause unnecessary damage to street pavement , trees, structures, poles, utilities, or other private or public property or where safety dictates. During the progress of the work, whenever and wherever it is necessary, the CONTRACTOR shall, at his expense, support the sides of the excavation by adequate and suitable sheeting, shoring, bracing, or other approved means. Such trench support material and equipment shall remain in place until backfilling operations have progressed to the point where the supports may be withdrawn without endangering persons or property. Sheeting shall be left in place only if so directed on the Plans. In such cases, the CONTRACTOR shall cut off the sheeting at the depth indicated on the Plans and remove the upper portion. If all the sheeting is to be removed, it shall be removed without causing damage to the pipe. No sheeting, shoring, or bracing will be paid for by the OWNER unless left in place according to the Plans or on written order of the ENGINEER.

M. Alignment and Grade - A laser shall be used for horizontal and vertical control of the sewer. Line and grade stakes shall be placed at 25 feet and 50 feet from the downstream manhole and then placed at every 100 foot station to the next manhole and used to verify alignment and grade. The laser unit shall be set up in such a manner that the alignment of the beam is through the pipe directly on the centerline of the pipe or outside the pipe directly above and parallel to the centerline of the pipe. If solvent-welded joints are used (or if chemical vapors from other sources are present in the pipe) and the laser unit is set up to aim through the pipe, a blower shall be used to provide positive continuous air circulation within the pipe to minimize deflection of the laser beam. A target shall be established on line and grade at each line and grade stake to check the setting of the laser beam as construction progresses. Also, the alignment of the pipe shall be checked at each line and grade stake by measuring horizontally from the stake to the centerline of the pipe, and the grade shall be checked with a level instrument and a grade pole set on the invert of the pipe. The CONTRACTOR shall ensure that the grade pole is vertically plumb when checking pipe grade.

N. Pipe Laying - The laying of sewer pipe on the prepared bed in finished trenches shall commence at the lowest point with the spigot ends pointing in the direction of flow.

All pipe shall be laid with ends abutting and true to line and grade as shown on the Plans. Pipe sections shall be carefully fitted, matched and aligned so that they will form a sewer with a smooth and uniform invert when laid in the trench. In no case will the supporting of pipes on blocks be permitted.

- O. No backfilling (except for securing pipe in place) over pipe will be allowed until the ENGINEER has had an opportunity to make an inspection of the joints, alignment and grade, in the section laid, but such inspection shall not relieve the CONTRACTOR of further liability in case of defective joints, misalignment caused by backfilling and other such deficiencies that are noted later.
- P. Backfilling: Backfill with material free from clods and rubble.
1. Backfill evenly and tamp layers not to exceed 6" in thickness until two feet of cover exists over pipe. Backfill shall achieve 98% Standard Proctor Density.
 2. Backfill remainder of trench and adjacent to sewer structure in 9" layers (use 4" layers if utilizing hand operated tamping equipment), using mechanical tamping equipment on each and every layer to achieve a Standard Proctor Density of 98% or greater. All unsuitable material from trench shall be loaded into trucks and hauled off-site. ***In areas beneath existing or proposed paving, backfill material shall consist of a select fill material (borrow excavation – contractor furnished) with a liquid limit less than 25 and plasticity index between 8 and 12. In areas outside of existing or proposed paving, the contractor may utilize on-site soils if deemed suitable for reuse by the Engineer.***
 3. Flooding and/or jetting is prohibited.
 4. Special compaction is required where new or replacement paving is scheduled.
 5. Compaction tests shall be performed on each and all layers by a certified testing lab. **Compaction tests shall be performed at no more than 400 feet apart or between manholes (whichever comes first) on sewer main lines and no more than 100 feet apart on sewer service lines if under paving (compaction tests not required on sewer service lines outside of paving areas). All compaction tests shall be paid for by the contractor at no expense to the owner.**
- Q. Care should be taken to prevent flotation of the pipe in the event the trench should flood as well as when placing bedding material around the pipe.
- R. Dewatering - Should water be encountered, the CONTRACTOR shall furnish and operate suitable pumping equipment of such capacity adequate to dewater the trench. The trench shall be sufficiently dewatered so that the laying and joining of the pipe is not performed in water. The CONTRACTOR shall convey all trench water to a natural drainage channel or storm sewer without causing any property damage.
- S. The interior of the pipe shall be clean and dry as the work progresses. Whenever pipe laying operations are not in progress, the exposed end of the pipe shall be sealed with a plug or bulkhead fitted into the pipe bell, so as to exclude earth, water, or other material. During excavation and backfilling, the exposed end of the pipe should be blocked to prevent excavated material or backfill material from entering the pipe. A watertight plug or bulkhead shall also be installed and maintained in the most downstream manhole of the project throughout construction to prevent dirt, rocks, muddy water, or other debris from entering the existing sewer system. This plug or

bulkhead shall not be removed until all the sewer has been installed, cleaned, tested, and accepted, unless directed otherwise by the ENGINEER.

- T. If a length of pipe is cut to fit in a line, it shall be cut according to the manufacturers recommendations to leave a smooth end at right angles to the longitudinal axis of the pipe.
- U. No fittings (except service wyes and repair couplings) shall be allowed in gravity sewers. Open ends of wyes shall be plugged or sealed until service laterals are installed.
- V. Pipe Joints - Preparatory to making pipe joints, all joint surfaces shall be cleaned of all dirt, dust, and foreign matter and shall be dry, smooth and free of imperfections before placing jointing materials (ie. gaskets, lubricants, primers, adhesives, etc.). Gaskets, lubricants, primers, adhesives, or other jointing materials shall be used as recommended by the pipe or joint manufacturer's specifications. Generally, lubricants, primers and adhesives shall be placed on both the bell and spigot portions of the joint. The pipe shall then be placed, fitted, joined, and adjusted in such a workmanlike manner as to obtain the degree of water tightness required. In the event that pipe previously laid is disturbed due to any cause, it shall be removed and relaid.
- W. Joints that show leakage will not be accepted. If after backfilling and inspection, any joints are found to be allowing groundwater to enter the sewer, such joints shall be sealed by the CONTRACTOR at no cost to the OWNER.
- X. Protection of Trees - Special care shall be taken to avoid damage to trees and their root system. Machine excavation shall not be used when, in the opinion of the ENGINEER, it would endanger the trees. In general, where the trench falls within the limits of the limb spread, headers are required across the trench to protect the tree. The operation of all equipment, particularly when employing booms; the storage of materials; and the deposition of excavation shall be conducted in a manner that will not injure trees, trunks, branches or their roots unless such trees are designated on the Plans for removal.

1.02 PVC PLASTIC GRAVITY SEWER PIPE AND FITTINGS:

- A. Solid wall PVC sewer pipe through 15" diameter shall be ASTM D3034. Solid wall PVC sewer pipe 18" diameter and larger shall be ASTM F679, Type I. Both types of solid wall PVC sewer pipe shall have ASTM D 3212 integral bell and spigot rubber gasketed joints. Pipe shall be SDR 26 for sizes up to 15 inch for all depths. Pipe shall be ASTM F679 PS 115 for sizes 18 inch and greater for all depths. Gasketed fittings shall conform to the same specifications and be supplied with the pipe.
- B. All pipe shall be suitable for use as a gravity sewer conduit. Provisions must be made for contraction and expansion at each joint with a rubber ring. The bell shall consist of an integral wall section with a solid cross section rubber ring factory assembled,

securely locked in place to prevent displacement. Pipe shall be supplied in lengths ten feet or greater. All pipe spigots shall have a "Home" mark to facilitate joint closure.

- C. A manufacturer's certificate that the PVC material and pipe was manufactured and tested in accordance with the appropriate ASTM specification shall be furnished to the ENGINEER prior to installation of the pipe.
- D. Pipe intended to be straight shall have a maximum deviation from straightness of 1/16 inch per linear foot when measured in accordance with ASTM D2122.
- E. All pipe and fittings will be inspected by the ENGINEER or his authorized representative immediately prior to installation and all rejected pieces must be completely removed from the project. Pipe acceptable to the ENGINEER shall be substituted for rejected pieces at the CONTRACTOR's expense. No repaired pipe or fittings will be allowed; undamaged lengths of straight pipe may be salvaged by neatly sawing off the damaged portion of the pipe.
- F. Pipe must be delivered to the job site by means which will adequately support it and not subject it to undue stresses. In particular, the load shall be so supported that the bottom rows of pipe are not damaged by crushing. Pipe shall be unloaded carefully and strung or stored as close to the final point of placement as a practical. Pipe must not be exposed to the direct rays of the sun for an extended period of time. If pipe is not to be installed shortly after delivery to the job site, it must be stored in shaded location and strung as needed.
- G. All PVC pipe shall be tested for deflection after backfilling is completed.
- H. Fittings: The fittings shall be made of PVC plastic having a cell classification of 12454-B, 12454-C, or 13343-C as defined in Specification D 1784.
- I. Pipe Marking: Each standard and random length of pipe in compliance with this standard shall be clearly marked per the following example at intervals of 1.5 m (5 feet) or less (also applicable to ASTM F679 Gravity Sewer Pipe):
 - a. Manufacturer's Name or Trademark.
 - b. Nominal pipe size.
 - c. The legend "Type PSM SDR 26 PVC Sewer Pipe"
 - d. UNI-B-4 or ASTM D 3034.
- J. Workmanship: The pipe and fittings shall be homogenous throughout and free from visible cracks, holes, foreign inclusions or other injurious defects. The pipe, shall be as uniform as commercially practical in color, capacity, density and other physical properties.

1.03 PIPE JOINTS

PVC sewer pipe joints shall be elastomerically gasketed conforming to ASTM D3212 integral bell and spigot type. The CONTRACTOR shall furnish evidence of satisfactory performance of the joint for previous installations.

- A. Each size joint shall be qualified to have no leakage under various test conditions in conformance with ASTM Specification D 3213, joints for drain and sewer plastic pipes using flexible elastomeric seals. The joint shall provide a positive seal against infiltration or exfiltration. All surfaces of the joint upon which the gasket may bear shall be smooth and free of such imperfections, fractures, or cracks that could adversely affect sealability. Joints shall comply with ASTM D 3212.
- B. Test Specimens - The ENGINEER or his authorized representative may initially and periodically select random sewer pipe for test purposes. The tests shall be performed on not less than two specimens and not more than 1 percent of the total pipe length of each size and joint type required for the project.

1.04 PRESSURE SEWER PIPE AND FITTINGS

A. General

In all areas where ductile iron pipe is not specifically shown, force mains and/or pump lines may be either Class 50 or 51 ductile iron or 200 psi SDR 21 PVC pipe.

B. Ductile Iron Pipe

Pipe shall be centrifugally cast, manufactured in accordance with the ANSI Specification A21.51, of Ductile Cast Iron, Grade 6-42-10, for the required operating pressures as shown on the Plans plus surge allowance of 100 psi, for five feet maximum cover for laying condition "B". Each pipe shall be hydrostatically tested, before shipment, to a minimum of 500 psi. Minimum nominal metal thickness shall be:

<u>Size</u>	3"	4"	6"	8"	10"
Class 50			0.25	0.27	0.29
Class 51	0.25	0.26			

Joints shall be push-on joint incorporating a single molded rubber ring gasket, Type II, per Federal Specifications WW-P-421b such as "Fastite", "Tyton" or "Super Bell-Tite" unless otherwise indicated on the Plans or hereinafter in these Specifications. Pipe shall be in nominal 16', 18', or 20' lengths.

Pipe shall be furnished tar coated outside and the manufacturer's standard "Enameline" inside to comply with ANSI Specification A21.4.

C. Cast or Ductile Iron Fittings

All fittings for ductile iron pipe shall be Class 250 mechanical joint cast iron conforming to ANSI Specifications A21.10 and A21.11 or ductile iron conforming to ANSI Specification A21.51, and shall meet the current requirements for the manufacturer's standards. Fittings shown on the Plans are intended to convey the general configuration, but the contractor shall furnish all fittings required.

Each fitting shall be certified by the manufacturer to have been tested and to have met the

requirements of the governing standard specifications.

All fittings shall be furnished tar coated outside and the manufacturer's standard "Enameline" inside to comply with ANSI Specification A21.4.

D. Polyvinyl Chloride Pipe

- (1) Polyvinyl Chloride pipe for force mains shall be made from Type 1, Grade 1 or 2, Polyvinyl Chloride plastic as defined in ASTM Specification D 1784, "Specifications for Rigid Poly (Vinyl Chloride) Compounds.

- (2) Physical Properties

The pipe shall conform to Commercial Standard CS-256-63 or ASTM Specification D 2241-80 "Standard Specification for Poly (Vinyl Chloride) (PVC) Plastic Pipe (SDR-PR and Class T)" as it applies to Type I, Grade 1 or 2 Polyvinyl Chloride plastic pipe, SDR 21, water pressure rating of 200 psi at 23° C (72.4° F).

- (3) Joints

The joints for pipe 1-1/2 inch in diameter and larger shall be push-on (bell and spigot) joints designed so that the pipe and fittings may be connected on the job without the use of solvent cement or any special equipment. The push-on joint shall be a single rubber gasket joint designed to be assembled by the positioning of a continuous, molded, rubber ring gasket in an annular recess in the pipe or fitting socket and the

forcing of the plain end of the entering pipe into the socket, thereby compressing the gasket radially to the pipe to form a positive seal. The gasket and the annular recess shall be so designed and shaped that the gasket is locked in place against displacement as the joint is assembled. Details of the joint design and assembly shall be in accordance with the joint manufacturer's standard practice. The joints shall be designed so as to provide for the thermal expansion or contraction experienced with the total temperature change of at least 75° F in each joint per length of pipe. Joints shall comply with ASTM-D3139.

Joints for fittings shall be of the push-on type as described above unless otherwise noted or directed by the Engineer. Solvent welded type joints shall be allowed on certain types of valves, fittings and piping connections 3-inch and smaller in diameter. Generally solvent weld joints shall be limited to certain assemblies that can be pre-assembled in the shop and then installed together as a unit in the field. Examples include the ball valve and clean-out tee that form a unit in a Type A or B valve and clean-out assembly, the ball and check valve assembly that form a unit in a house service junction box, etc. Solvent cement joints shall be formed by deep-socket couplings integrally cast on the ends of the fittings or valves. Solvent cement shall conform to ASTM D-2564.

- (4) Lubricant

Lubricant furnished for lubricating joints shall be non-toxic, shall not support the growth of bacteria, shall have no deteriorating effects on the gasket or pipe material, and shall not impart color, taste or odor to water. The lubricant containers shall be labeled with the manufacturer's name.

(5) Gasket

Gaskets shall meet all applicable requirements of ANSI Standard A21.11 and/or ASTM F477-76.

Gasket dimensions shall be in accordance with the manufacturer's standard design dimensions and tolerances. The gasket shall be of such size and shape as to provide an adequate compressive force against the spigot and after assembly to effect a positive seal under all conditions of joint and gasket tolerances. The trade name or trademark, size, mold number, gasket manufacturer's mark and year of manufacture shall be molded in the rubber on the back of gaskets.

Gaskets shall be vulcanized natural or vulcanized synthetic rubber. No reclaimed rubber shall be used. When two hardnesses of rubber are included in a gasket, the soft and hard portions shall be integrally molded and joined in a strong vulcanized bond. They shall be free of porous areas, foreign material and visible defects.

(6) Pipe Lengths

The pipe shall be furnished in nominal lengths of 20 feet. The pipe shall be supported at least every 10 feet of its length during all handling, and special care shall be taken to avoid placing undue stress on the pipe during handling, and any actions that may damage the bell or spigot ends of the pipe shall be avoided.

(7) Fittings

Fittings to be installed in conjunction with the low pressure force main (pumped sewer lines) shall be of the same material and quality as the pipe and have joints as described in this Section. The fittings shall be designed to withstand the same pressures required for the pipe. The supplier shall be capable of supplying fittings with combinations of spigot (plain) end and bell.

The pipe supplier shall be capable of supplying special pieces for use in connection PVC pipe to cast or ductile iron pipe.

(8) Marking of Pipe

As a minimum, the pipe shall have the following data applied to each piece:

1. Nominal Size
2. Type of Material
3. SDR or Class (color coded)
4. Manufacturer
5. NSF (National Safety Foundation seal of approval)
6. Quality Control Code

1.05 SEWER SERVICE CONNECTIONS, WYES, AND RISERS:

A. New service connection fittings and lines shall be six (6) inch diameter as supplied by the manufacturer of the gravity sewer pipe unless required otherwise by ENGINEER. All fittings located on the lateral shall be incidental and not be a separate pay item. Laterals shall be PVC or ABS according to ASTM D3034 or ASTM D2751, respectively, unless otherwise shown. Minimum wall thickness shall be SDR 35 for installations less than 16 feet in depth, and SDR 26 for installations from 16 to 25 feet in depth.

B. Minimum slope for lateral service lines shall be one percent (1.0%). All specifications for gravity sewer lines and appurtenances shall apply to lateral service lines.

C. Service laterals to be extended from main sewers over twelve feet (12') in depth where the property being served does not require the full depth, may be brought up to grade in the manner described for riser pipe. Service laterals from main sewers less than 12 feet in depth will be extended on a straight uniform grade from the main to the point of terminus. Depths of service laterals at the point of termination will be shown on the Plans or supplied by the ENGINEER. All sanitary sewer laterals shall be installed at least four feet (4') below the existing or proposed basement floor elevation at the point of connection to the sewer main. Service laterals shall be extended to the right-of-way line or easement line, as applicable, unless otherwise shown on the plans or directed by the ENGINEER. Laterals shall not exceed a depth of twelve feet (12') below finish grade at the end of the lateral at the right-of-way or easement line unless specifically authorized by the ENGINEER.

D. WYE BRANCHES:

1. Location: In general, wye branches shall be placed in the main sewer opposite each lot or property to which a house service may be extended.
2. Existing Sewers: Where a wye branch is to be installed in an existing sewer, the CONTRACTOR will be permitted to tap the sewer pipe and install the wye as directed by the ENGINEER. Wyes shall only be installed on the type of pipe for which they were designed. Wyes shall be approved by the ENGINEER.
3. Wyes shall be of the same material, strength, and joint as the sewer main pipe.
4. Where the wye branch is not designed for use with ABS or PVC service pipe, appropriate adapters shall be used to connect the lateral to the wye branch.

E. RISER PIPE:

Where the cover on the wye branch is in excess of twelve feet below average ground surface, a 45 degree bend and sufficient riser pipe (also installed at a 45 degree slope) shall be added to terminate at a depth of twelve feet below the ground surface, provided

the property being served will not require additional depth.

F. CLOSURES:

1. Where no riser pipe or lateral is installed with the wye branches, the outlet of each wye branch shall be securely sealed with a restrained water tight closure that can be later removed without damage to the outlet.
2. ABS or PVC: All closures at the ends of ABS or PVC wye branches, risers or service laterals shall be made by installing a length of ABS or PVC pipe to the wye branch, riser or service lateral and solvent cementing an ABS or PVC cap to the spigot end. A sufficient length of pipe should be installed to permit removal of the closure and extending the line in the future. Mechanical plugs shall not be permitted.
3. All closures shall be capable of passing the sewer leakage test(s).

G. WYE POLES:

1. A wye pole shall be placed at the end of each wye branch, riser, or house service, as the case may be, extending to a point 6 inches below the end of the pipe to hold it firmly in position during backfilling. If the wye pole is pulled out, bent, or broken, the CONTRACTOR shall, at no cost to the OWNER, replace or straighten the pole. The wye pole shall be adjacent to the end of the pipe but not above it or against it.
2. Material: Wye poles shall be not less than a standard 2 x 4 and shall extend a minimum of 3 feet above the finished grade. The material used for wye poles shall be in good condition and shall be straight, sound and free from large or loose knots.

1.06 AIR RELEASE VALVES AND PITS:

- A. Automatic sewage type air release valves and pits shall be installed on the force main at all high points in the lines as shown on the Plans. The exact location of air release valves shall be determined in the field by the ENGINEER.
- B. Air release valves shall be the short version of Apco Model 400, Crispin 520, or equal. Valves shall be 2-inch inlet diameter and shall be fitted with proper size of orifices. The body and cover shall be of cast iron, the trim shall be brass and the float shall be of stainless steel. The valves shall be suitable for use in lines having a maximum water pressure of 200 psi. The valve shall be supplied with backwash accessories.
- C. Pits shall be pre-cast or built in place, complete with frame and cover, connecting galvanized steel piping, cutoffs, blowoffs and all accessories. Submittals shall be reviewed by the ENGINEER prior to placement in the field.

1.07 PRECAST CONCRETE MANHOLES:

- A. Precast concrete manholes shall consist of reinforced riser sections, an eccentric cone or flat slab top section, and a base section, all conforming with details as shown on the Plans.
- B. Precast reinforced concrete sections shall meet the requirements of the latest edition of ASTM Designation C-478, and shall not have more than two (2) holes for the purpose of handling.
- C. Joints for precast sections shall be concrete pipe type and shall be sealed with preformed joint compound or rubber gaskets. Preformed joint compound shall meet Federal Specification SS-S00210(210-A) and AASHTO Specification M-198; rubber gaskets shall meet ASTM Designation C-443.
- D. Manhole steps shall be coated corrosion resistant PS-2 steps as manufactured by M.A. Industries, Inc., Peachtree City, Georgia, "Surefoot" rubber encased steps as manufactured by Oliver Tire and Rubber Co., or approved equal.
- E. Manhole frames and covers shall meet the requirement of ASTM Designation A-48 for "Gray Iron Castings, Class 25".
- F. Flexible manhole pipe connectors shall be Kor-N-Seal as manufactured by NPC Systems, Inc.; Press Wedge II as manufactured by Press-Seal Gasket Corporation, or approved equal and shall meet ASTM Designation C-923.

1.08 PRECAST PUMPING STATIONS OR WET WELLS:

- A. Precast concrete pumping stations or wet wells shall consist of reinforced riser sections, a flat slab top section, and a bottom, either poured at the job site by the Contractor or precast by the Manufacturer, all conforming with details as shown on the Plans.
- B. Precast reinforced concrete sections shall meet the requirements of the latest edition of ASTM Designation C-478, and shall not have more than two (2) holes for the purpose of handling.
- C. Joints for precast sections shall be concrete pipe type and shall be sealed with preformed joint compound or rubber gaskets. Preformed joint compound shall meet Federal Specification SS-S00210 (210-A) and AASHTO Specification M-198; rubber gaskets shall meet ASTM Designation C-443.

1.09 LINING FOR PUMPING STATIONS AND MANHOLES:

- A. General:
 - 1. All interior barrel and joint surface areas, which will be exposed to sewer liquids and gases, shall be prepared, coated, and cured as necessary to complete the installation of a coal tar epoxy lining in each concrete pipe section and manhole section, at the concrete pipe manufacturer's plant.
 - 2. Waterproofing of manholes shall be performed using Xypex Crystalline Concrete Waterproofing **ONLY**. No other methods or equals shall be used for lining concrete manholes and pumping stations. See Appendix "A" for

specifications on Xypex Crystalline Concrete Water Proofing.

- B. Surface Preparation: All precast concrete units shall be prepared for lining by removing all laitance, form oil, and other loose, foreign, or deleterious materials which would adversely affect the bond of the lining compound to the pipe surface. Specifically, surface preparation shall consist of sandblasting and cleaning the barrel of the pipe and the joint surface areas on which coatings will be applied. Under no circumstances shall the lining be applied on "Green" concrete. All surfaces to be coated shall be essentially free of voids, cracks, inclusions or other structural defects. Any such defects shall be corrected by bagging or brushing the wet formed concrete and/or cement grouting the cured section. All grouting must be allowed to thoroughly cure before any coating is applied. The surfaces shall not be extremely rough or deeply textured nor shall they bear exposed aggregate. All mortar fins, concrete splatter and other protrusions shall be removed by appropriate means. Prior to applying specified coatings, the concrete surface shall be clean and properly prepared as specified herein and shall be dry to the extent that the surfaces to be coated are visibly dry and the concrete contains no greater than ten percent (10%) moisture as determined by measurement with a suitable moisture meter.
1. Surfaces to be coated shall be clean and dry. All grease, oil, dirt, salts and other foreign matter shall be removed by steam or detergent cleaning. Any such areas shall be allowed to thoroughly dry before any further surface preparation is performed. All surfaces to be coated shall be uniformly brush sandblasted to the extent that all loose or unsound concrete and laitance are removed. All necessary precautions shall be employed to avoid excessive sandblasting so that a uniformly blasted concrete surface is produced that is clean and lightly etched. All blasted concrete surfaces shall be patched with an epoxy structural paste adhesive, if required, and have the prime coat applied within eight (8) hours and before surface contamination or moisture absorption can occur. In order to avoid damaging previously applied coatings, work shall be scheduled such that complete concrete units are sandblasted and coated.
- C. Application:
1. The pipe surface areas to be lined shall be blown off with air to remove all sand, dust and other loose materials immediately prior to application of the lining compound. The lining compound shall not be applied when the ambient temperature is below 40°F. The compound shall not be applied under adverse atmospheric conditions that will cause detrimental blistering, pinholing, or porosity of the film.
 2. The coating shall be applied by the airless spray method, in three (3) coats, consisting of a primer, four (4) mils minimum dry film thickness, followed by two (2) coats each with a minimum dry film thickness of ten (10) mils, for a total minimum dry film thickness of twenty-four (24) mils.
 3. The complete coating system shall be free of excessive runs, sags, drips,

cracks, crazing, alligating, blisters, inclusions, excessive or deficient film thickness, voids, pinholes or other holidays, damaged area or any other defects.

Any such deficiencies shall be corrected by removal and recoating. Depending upon air circulation and relative humidity conditions, the coating system should be cured sufficiently hard so that the pipe can be handled with minimal damage.

- D. Surface Testing, Film Testing and Inspection: Surface temperature shall be determined with an appropriate dial thermometer. Pipe moisture content shall be determined by an appropriate moisture meter to assure proper condition of the surface before applying coatings. The primer and finish coats shall be inspected for continuity, pinholes, bore areas and holidays, with a non-destructive field-calibrated sparking holiday detector. Dry film thickness shall be determined with a non-destructive dry film gauge. All instruments shall be as recommended by the coating supplier.
- E. Touch-Up and Repair: Excessive runs, sags, dips, cracks, crazing, alligating, blisters and inclusions shall be completely removed by suitable scraping, chipping, or grinding. Loose or poorly bonded coating and improperly cured coating shall be completely removed to a sound substrate by grinding or sandblasting. Excessive film thickness shall be reduced to below 24.0 mils by grinding or sandblasting. All deficient areas shall be wiped free of all surface contamination using clean rags soaked in specified thinner and the cleaned areas shall be allowed to dry. The deficient area shall then be thoroughly abraded and the abrasion shall be "feathered" out slightly beyond the perimeter of the affected area. Small areas may be abraded by hand or power tool sanding using medium grit garnet or sandpaper. Extensive areas may be abraded by uniform brush sandblasting. All necessary precautions shall be employed, including temporary shielding where required, to protect adjacent coatings from damage during sandblasting operations. All abraded areas shall be thoroughly swept clean and the specified coating applied the same day and before contamination can occur. The prepared areas shall then be primed and finish coated as specified, except that all coating may be applied unthinned and by brush. All coating shall be "feathered" out to the edge of the abraded area. The pipe shall be visually inspected at the job site before installation.

1.10 SEPARATION OF WATER AND SEWER MAINS:

- A. Horizontal and Vertical Separation: Sewers shall be laid at least 10 feet horizontally from any existing or proposed water main. The distance shall be measured edge to edge. In cases where it is not practical to maintain a 10 foot separation, the appropriate reviewing agency may allow deviation on a case-by-case basis, if supported by data from the design engineer. Such deviation may allow installation of the sewer closer to a water main, provided that the water main is in a separate trench or on an undisturbed earth shelf located on one side of the sewer and at an elevation so the bottom of the water main is at least 18 inches (460 mm) above the top of the

sewer.

If it is impossible to obtain proper horizontal and vertical separation as described above, both the water main and sewer must be constructed of slip-on or mechanical joint pipe complying with public water supply design standards of the agency and be pressure tested to 150 psi (1034 kPa) to assure watertightness before backfilling.

- B. Crossings: Sewers crossing water mains shall be laid to provide a minimum vertical distance of 18 inches (460 mm) between the outside of the water main and the outside of the sewer. This shall be the case where the water main is either above or below the sewer. The crossing shall be arranged so that the sewer joints will be equidistant and as far as possible from the water main joints. Where a water main crosses under a sewer, adequate structural support shall be provided for the sewer to maintain line and grade. When it is impossible to obtain proper horizontal and vertical separation as stipulated above, one of the following methods must be specified:

1. The sewer shall be designed and constructed of PVC pipe and equal to water pipe, and shall be pressure tested at 150 psi (1034 kPa) to assure water tightness prior to backfilling.
2. Either the water main or the sewer line may be encased in a watertight carrier pipe which extends 10 feet (3 m) on both sides of the crossing, measured perpendicular to the water main. The carrier pipe shall be of materials approved by the regulatory agency for use in water main construction.

1.11 TESTING:

A. GRAVITY SEWER TESTING – LEAKAGE (SEWER MAINS):

All completed piping shall be tested as specified herein by low-pressure air test, exfiltration, or infiltration test after backfilling to test for leaks. The maximum leakage allowance for all sanitary sewers shall be 50 gallons per inch diameter per mile of pipe per 24 hours. If the level of the current prevailing groundwater is two feet (2') or more above the top of the sewer pipe, an infiltration test will be required. At the request of the ENGINEER, a low-pressure air test or exfiltration test will be performed instead of or in addition to an infiltration test if the ground water level is uncertain. Labor, equipment and supplies required for all tests shall be furnished by the CONTRACTOR. The CONTRACTOR shall flush and clean the sewer line to the satisfaction of the OWNER prior to testing. The ENGINEER shall witness and approve all leakage tests. In the event that the CONTRACTOR performs any test without witness by the ENGINEER, the CONTRACTOR will be required to test the section again at no cost to the OWNER. The CONTRACTOR and ENGINEER shall sign all test reports. Note that only four sections (approximately 1,200 - 1,600 feet) of sewer will be permitted to remain untested at any time.

1. Low Pressure Air Test:

After backfilling, the air test shall be conducted between two consecutive manholes. Low pressure air tests shall be in accordance with ASTM C 924, except as specified otherwise herein. All pipe outlets must be plugged in the section being tested with suitable test plugs. One of the plugs used at a manhole must be tapped and equipped for an air inlet connection for filling the line from the air compressor.

Air shall be supplied slowly to the test section until the internal pressure reaches approximately 4 pounds per square inch (psi). At least 2 minutes shall be allowed for the air pressure to stabilize. When the pressure has stabilized and is at or above 3.5 psi, the air supply shall be disconnected and timing shall begin. Timing shall continue until the pressure has dropped 1.0 psi. If the time elapsed before the pressure drops 1.0 psi is greater than the specified minimum holding time, the section shall be considered to have passed the test. If the time is less than the specified minimum holding time, the section shall be considered to have failed and must be repaired or replaced.

Minimum Holding Time shall be calculated from the following equation:

$$\text{Holding Time (minutes)} = 0.00037 \times D^2 \times L / Q$$

where D = Pipe Diameter (inches)

L = Length of Pipe Tested (feet)

Q = Allowable Air Loss (ft³/min) from Table B.2.

An air pressure correction is necessary when the current prevailing groundwater is above the invert of the sewer line being tested. Under this condition, the air test pressure shall be increased 0.433 psi for each foot the groundwater level is above the invert of the pipe. All gauge pressures shall be increased by this amount. If the current prevailing groundwater is more than 27 inches above the invert of the pipe, the infiltration or exfiltration test should be used as required above. Thus, internal air pressures should never exceed 5.0 psi.

Table B.1. Minimum Holding Time for Low Pressure Air Test	
Nominal Pipe Size, in.	Time per 100 ft.
6	42 seconds
8	1 minute-12 seconds
10	1 minute-30 seconds
12	1 minute-48 seconds

15	2 minutes-6 seconds
18	2 minutes-24 seconds
21	3 minutes
24	3 minutes-36 seconds
27	4 minutes-12 seconds
30	4 minutes-48 seconds
33	5 minutes-24 seconds
36	6 minutes

Table B.2. Allowable Air Loss for Low Pressure Air Test	
Nominal Pipe Size, in.	Air Loss (Q), ft³/min
6 and 8	2
10	2.5
12	3
15	4
18	5
21	5.5
24	6
27	6.5
30	7
33	7.5
36	8
42	9
48	10
54	11
60	12
66	13

2. Infiltration Test:

The CONTRACTOR may elect to use an infiltration test when the level of the current prevailing groundwater is two feet (2') or more above the top of the sewer pipe, including all service laterals, at the highest point of the section being tested. The inlet end(s) of the upstream manhole shall be securely sealed. The downstream sewer shall be completed and open to allow the sewer to drain. The ENGINEER shall approve the length of sewer to be tested at one time. The ENGINEER may require that each manhole span be tested separately. The amount of infiltration shall be measured by means of a weir located in the downstream manhole. The test head shall be maintained for a period of at least 24 hours before the weir measurement is made. Infiltration shall not exceed 50 gallons per inch diameter per mile of pipe per 24 hours. This infiltration test may not be performed until the sewer line and manholes are completed and all known leaks are repaired. The CONTRACTOR will be required to correct all conditions that permit visible infiltration and may be required to relay sections with such conditions that cannot be corrected, even though infiltration is within allowable limits.

3. Exfiltration Test:

When the exfiltration test is selected, the inlet ends of the upstream and downstream manholes shall be sealed with watertight plugs or bulkheads, and the sewer along with the upstream manhole shall be filled with water until the elevation of the water in the upstream manhole is: 1) two feet (2') higher than the top of the sewer pipe, including all service laterals, at the highest point of the section being tested, or 2) two feet (2') above the level of the current prevailing groundwater, whichever is the higher elevation. The test level shall be clearly marked in the upstream manhole. The entire length of section to be tested shall be filled and maintained full of water for a period of at least 24 hours prior to the start of the test. If the water level in the upper manhole drops during this 24 hour period, the level shall be raised to the test level mark prior to start of the test. Exfiltration will be determined by measuring the amount of water required to maintain the marked water level for a period of 1 hour from the start of the test. The allowable leakage of 50 gallons per inch diameter per mile of pipe per 24 hours is based on a maximum difference in elevation of 8 feet between the water level in the upstream manhole and the invert of the pipe being tested in the lower manhole or the current prevailing groundwater level, whichever is higher. If this difference in elevation exceeds 8 feet, the allowable leakage shall be increased 5 percent for each 1 foot in excess of 8 feet. All observed leaks shall be corrected even if exfiltration is within the allowable limits.

4. Smoke Testing:

Smoke testing may be used only to locate leaks and in no case shall be

considered conclusive. In all cases the smoke test shall be accompanied by an air test, exfiltration test or infiltration test. The ENGINEER may order a smoke test if another leakage test fails and the source of the leak cannot be determined by other means. Smoke testing may only be performed where ground water is low and the conduit is properly sealed. Smoke shall be blown into a sealed section of sewer under pressure, and the CONTRACTOR and ENGINEER shall observe for any smoke appearing on top of the ground indicating the presence of leaks. The ENGINEER may require that the CONTRACTOR excavate the sewer to determine the source of any smoke appearing during a smoke test. All leaks or breaks discovered by the smoke tests shall be repaired and/or corrected by the CONTRACTOR at his own expense in a manner acceptable to the ENGINEER. Equipment and supplies required for smoke tests shall be furnished by the CONTRACTOR. Smoke tests may be performed by the CONTRACTOR at any time during construction at his option; however, any such tests shall not supplant the final tests of the completed work.

B. SEWER FORCE MAIN TESTING - LEAKAGE:

As a minimum, all sewer force mains shall be tested in accordance with the Hydrostatic Testing Requirements of AWWA C600.

1. All force mains shall be given a hydrostatic test of at least 1.5 times the shutoff head of the connected pumps or 150 psi, whichever is greater. Loss of water pressure during test shall not exceed 5 psi in a 2 hour period.
2. Where practicable, pipelines shall be tested between line valves or plugs in lengths of not more than 1500 feet.
3. The pipe shall be slowly filled with water and the specified test pressure shall be applied by means of a pump connected to the pipe in a manner satisfactory to the ENGINEER. The pump, pipe connection, and all necessary apparatus except the gauges shall be furnished by the CONTRACTOR. The ENGINEER will furnish the gauges for the test, but the CONTRACTOR shall furnish all necessary assistance for conducting the test. Before applying the specified test pressure, all air shall be expelled from the pipe. If permanent air vents are not located at all high points, the CONTRACTOR shall install corporation cocks at such points so the air can be expelled as the line is filled with water. After all the air has been expelled, the corporation cocks shall be closed and the test pressure applied.
4. Duration of test shall not be less than two hours.
5. The test pressure shall not exceed the rated pressure of the valves in the pipeline.
6. Where leaks are visible at exposed joints and/or evident on the surface where joints

are covered, the CONTRACTOR shall repair the joints, retighten the bolts, relay the pipe, or replace the pipe until the leak is eliminated--regardless of total leakage as shown by the hydrostatic test. Polyethylene encasement damaged from repairs must also be properly repaired or replaced to the satisfaction of the ENGINEER.

7. All pipe, fittings and other materials found to be defective under test shall be removed and replaced at the CONTRACTOR's expense.
8. Lines which fail to meet test shall be repaired and retested as necessary until test requirements are complied with.
9. The OWNER will provide water for testing the force mains; however, the CONTRACTOR will be responsible for piping or hauling the water if necessary. The CONTRACTOR shall not operate any valves on existing water mains. This shall be done by the OWNER.
10. No pipe installation will be accepted if the leakage is greater than that determined by the formula:

$$L = \frac{SD(P)^{1/2}}{133,200}$$

in which L is the allowable leakage, in gallons per hour; S is the length of pipeline tested, in feet; D is the nominal diameter of the pipe, in inches; and P is the average test pressure during the leakage test, in pounds per square inch gauge. Allowable leakage at various pressures and pipe sizes are shown in the Table below (from AWWA C600 - Table 6A):

Allowable Leakage Per 1,000 Feet of Pipeline* - gph

Avg. Test Pressure psi	3	4	6	8	10	12	14	16
250	0.36	0.47	0.71	0.95	1.19	1.42	1.66	1.90
225	0.34	0.45	0.68	0.90	1.13	1.35	1.58	1.80
200	0.32	0.43	0.64	0.85	1.06	1.28	1.48	1.70
175	0.30	0.40	0.59	0.80	0.99	1.19	1.39	1.59
150	0.28	0.37	0.55	0.74	0.92	1.10	1.29	1.47
125	0.25	0.34	0.50	0.67	0.84	1.01	1.18	1.34
100	0.23	0.30	0.45	0.60	0.75	0.90	1.05	1.20

Avg. Test Pressure psi	18	20	24	30	36	42	48	54
250	2.14	2.37	2.85	3.56	4.27	4.99	5.70	6.41
225	2.03	2.25	2.70	3.38	4.05	4.73	5.41	6.03
200	1.91	2.12	2.55	3.19	3.82	4.46	5.09	5.73
175	1.79	1.98	2.38	2.98	3.58	4.17	4.77	5.36
150	1.66	1.84	2.21	2.76	3.31	3.86	4.41	4.97
125	1.51	1.68	2.01	2.52	3.02	3.53	4.03	4.53
100	1.35	1.50	1.80	2.25	2.70	3.15	3.60	4.05

*If the pipeline under test contains sections of various diameters, the allowable leakage will be the sum of the computed leakage for each size.

C. TEST FOR DEFLECTION:

After the pipe has been laid and backfilled, the Engineer shall require appropriate deflection testing. This test is conducted by pulling a pointed mandrel through the pipe as described in Appendix "A." The Engineer shall designate the method of testing to be used.

Upon completion of backfill the maximum allowable deflection shall not exceed 5% of the pipe's base inside diameter in accordance with Appendix X2 of ASTM Specification D3034 and F679.

The base inside diameter of the pipe shall be determined in accordance with Appendix Section X1 of ASTM Specification D3034 and F679. Testing shall be conducted on a manhole to manhole basis or in total, as specified. To ensure accurate measurement, it is important that the line to be tested is completely water flushed. This test will not be run for at least thirty (30) days after the trench has been backfilled. If the trench was dewatered, the water table will be permitted to recover to at least three- fourths of its previous depth above the pipe before this thirty (30) day period starts.

D. TEST REJECTION: Should the results of any test fail to meet the criteria established in these specifications, the Contractor shall, at Contractor's expense, locate and repair the rejected section and retest until it is within specified allowance.

E. ALIGNMENT: Sewers shall be laid with straight alignment between manholes. Straight alignment shall be checked by either using a laser beam or lamping.

1.12 PUMPING AND BYPASSING:

- A. Flow through existing sanitary sewers and manholes shall not be interrupted, except as follows. Flow may be interrupted long enough to reconfigure inverts in existing manholes or to core drill existing manholes, as necessary. Flow may also be interrupted to connect an existing sewer into a new sewer and to plug the outlet to be abandoned in the manhole. All situations requiring interruption of flows shall be carefully coordinated with the OWNER and ENGINEER at least three working days in advance. Anytime the flow through existing sanitary sewers or manholes is interrupted, the CONTRACTOR shall provide bypass pumping of the sewage to a truck or downstream manhole, as approved by the OWNER. Under no circumstances should sewage be allowed to surcharge new or existing sewers or manholes or to flow onto or into the ground. Length of bypass pumping shall be minimized as much as possible.
- C. When pumping and bypassing is required, the CONTRACTOR shall supply the pumps, conduits, and other equipment to divert the flow of sewage around the sewer(s) or manhole(s) in which work is to be performed. The bypass system shall be of sufficient capacity to handle the same capacity as the sewer being bypassed, unless otherwise approved in writing by the ENGINEER. Pumps used for bypassing shall be capable of passing at least a 3" solid sphere, and bypass piping shall have a minimum size of 4" diameter. The CONTRACTOR will be responsible for furnishing the necessary labor and supervision to set up and operate the pumping and bypassing system. If pumping is required on a 24-hour basis, engines shall be equipped in a manner to keep noise to a minimum, and a spare back-up pump will be required. A spare back-up pump may be required at other locations or times as indicated in the construction documents. All fuel tanks for pump or generator motors shall be filled by the CONTRACTOR prior to leaving the job site if bypass pumping must continue. The CONTRACTOR will not suspend work for more than 24 hours during operation of a bypassing system, unless otherwise permitted by the ENGINEER.

1.13 MEASUREMENT AND PAYMENT:

- A. Payment for all items of work required for installation of sanitary sewerage system (main or service) shall be included in the lump sum bid item.

END OF SECTION

OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DATE: June 15, 2020

SUBJECT: Jacking, Dry Boring, and Boring with Drilling Fluid

1) NOTICE:

- A. Before jacking, dry boring or boring with drilling fluid is begun, written approval must be obtained from the Engineer on the alternate method to be used. The right is reserved to require a change in the alternate when due to soil conditions or other reasons the desired results are not being obtained.
- B. Before any jacking, dry boring or boring with drilling fluid is begun, the Engineer will be advised in writing whether the work will be performed by the applicant's forces or by contract and if by contract the name of the contractor.

2) JACKING:

- A. Jacking will be accomplished as follows:
 - 1. No casing or carrier pipe larger than 3 1/2" in diameter will be pushed or jacked under the highway. All casing or carrier pipe will be of strength sufficient to withstand the stress resulting from jacking pressures. The violation of any specification as set out in the permit will be cause for cancelling the permit.

3) DRY BORING:

- A. Dry boring will be accomplished as follows:
 - 1. The casing or carrier pipe is to be installed by drilling a hole of a size not larger than 1" around the outside circumference of the casing or carrier pipe where the casing or carrier pipe is larger than 8" in diameter and not larger than 1/2" around the outside circumference where the casing or carrier pipe is 8" or less in diameter.
 - 2. Water bearing sands and mucky soils will be well pointed as necessary prior to commencing the bore.
 - 3. All bores will be accomplished with the auger inside the casing or carrier pipe with the cutting edges positioned just ahead of the pipe except as follows:
 - a. Dry boring with the auger not inside the casing or carrier pipe may be permitted in bores 8" or less in diameter in dense consolidated soils.
 - b. Dry boring with the auger not inside the casing or carrier pipe may be permitted in bores 3" or less in diameter in loose sandy soils or other soils which easily cave or spall.

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Boring with Drilling Fluid

4. Care should be exercised at all times to keep the auger properly positioned within the encasement or carrier pipe and to maintain sufficient forward pressure upon the encasement or carrier pipe to quickly run through any pockets of loose soil.
5. All borings with or without the auger inside the encasement or carrier pipe will be carefully observed for comparison between the amount of cuttings removed from the hole and the diameter of the bore together with the distance the auger has traveled in the bore. An excessive amount of cuttings removed from the bore indicates caving or spalling of the bore wall and the bore will be stopped until a method for completing the bore acceptable to the Engineer has been agreed upon.
6. An acceptable fluid may be introduced by gravity flow approximately 3' back of the forward end of the casing or carrier pipe to lubricate the cuttings in order to facilitate the removal thereof; however, the intemperate use of such fluid causing undue flow back and erosion of the bore or the violation of any specification will be prohibited.

4) BORING WITH DRILLING FLUID:

- A. The use of either a gel-forming colloidal drilling fluid or the use of a polymer-surfactant mixture in accordance with the following specifications is permitted.
- B. The drilling fluid is used to lubricate the cutters or reamers, as a binder to bind the cuttings into plugs of appropriate length and to form a filler cake around the circumference of the bore in order to prevent cave-ins or spalling, to maintain the arch and also to lubricate the bore for easy removal of masses or plugs of cuttings from the bore by using compressed air. Liquids other than the drilling fluids described in Alternates 1 and 2 will not be used in the bore. The intemperate use of drilling fluid causing undue flow back and erosion of the bore or the violation of any specification will be prohibited. All bores accomplished with the use of a drilling fluid will be made as follows:
 1. Alternate 1: The casing or carrier pipe is to be installed by drilling a hole of a size not larger than 1" around the outside circumference of the casing or carrier pipe is larger than 8" in diameter and not larger than 1/2" around the outside circumference where the casing or carrier pipe is 8" or less in diameter, with an open type bit that leaves the cuttings in place, a gel-forming colloidal drilling fluid consisting of at least 10% by weight of Aqua-gel, or the equivalent of other gel-forming types, when boring in sandy subsoils, fine sands, water bearing sands or any soils which easily spall or cave and consisting of at least 5% by weight of Aqua-gel, or the equivalent of other gel-forming types, when boring in dense consolidated soils will be used to consolidate the cuttings, seal the

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Boring with Drilling Fluid

wall of the bore and furnish lubrication for subsequent removal of the cuttings and installation of the casing immediately thereafter. The percentage of gel-forming agent will be increased as required by soil conditions. All information necessary to establish the quality or equivalency of other gel forming types will be furnished by the applicant. When boring sandy subsoils, fine sands, water bearing sands or any soil which easily spalls or caves the bore entrance will be plugged or dammed in order to retain the drilling fluid and the cuttings within the bore until immediately before the casing or carrier pipe is installed. Water bearing sands and mucky soils will be well pointed as necessary prior to commencing the bore. When drilling through dense consolidated soils the cuttings may be partially removed from the hole in approximately three foot plugs by use of compressed air or by retraction of the cutter or reamer. No cutter or reamer larger than 3" diameter shall have holes therein larger than 5/16" in diameter through which drilling fluid is forced during boring.

2. Alternate No. 2: The casing or carrier pipe is to be installed by drilling a hole of a size not larger than 1" around the outside circumference of the casing or carrier pipe where the casing or carrier pipe is larger than 8" in diameter and not larger than 1/2" around the outside circumference where the casing or carrier pipe is 8" or less in diameter, with an open type bit that leaves the cuttings in place. Drilling fluid composed of water and a polymer-surfactant will be used to consolidate the cuttings, seal the wall of the bore and furnish lubrication for subsequent removal of the cuttings and installation of the casing or carrier pipe immediately thereafter. When boring sandy subsoils, fine sands, water bearing sands or any soil which easily spalls or caves, the bore entrance will be plugged or dammed in order to retain the drilling fluid and the cuttings within the bore until immediately before the casing or carrier pipe is installed. Water bearing sands and mucky soils will be well pointed as necessary prior to commencing the bore. When drilling through dense consolidated soils the cuttings may be partially removed from the hole in approximately three foot plugs by use of compressed air. The polymer-surfactant mixture or drilling fluid when used in dense consolidated soils will consist of not less than 2% of polymer-surfactant by volume and when used in sandy subsoils, fine sands or any soil which easily caves will consist of at least 4% of polymer-surfactant by volume. The percentage of polymer-surfactant will be increased as required by soil conditions. All information necessary to establish the quality or equivalency of any ingredient will be furnished by the contractor.

END OF SECTION

Supplemental Specification
901-S-616-1
Concrete Stamped and Colored

OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DATE: July 15, 2020

SUBJECT: Concrete Stamped and Colored

1.0 CONSTRUCTION REQUIREMENTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS:

A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 Specification sections apply to work specified in this section.

B. Decorative Concrete Submittals

- a. Samples for Initial Selection: For each type of product, ingredient, or admixture requiring color, pattern, or texture selection.
- b. Samples for Verification: For each type of exposed color, pattern, or texture indicated.
- c. Qualification Data: For qualified Installer and ready-mix concrete manufacturer.
- d. Material Certificates: For the following, from manufacturer:
 - 1. Admixtures.
 - 2. Curing compounds.
 - 3. Applied finish materials.

1.2 QUALITY ASSURANCE:

A. Codes and Standards: Comply with provisions of following codes, specifications and standards, except where more stringent requirements are shown or specified:

American Concrete Institute (ACI):

ACI 301 "Specifications for Structural Concrete for Buildings".

ACI 318 "Building Code Requirements for Reinforced Concrete".

ACI 315 "Manual of Standard Practice for Detaining Reinforced Concrete Structures".

ACI 347 "Recommended Practice for Concrete Formwork".

American Society for Testing & Materials (ASTM):-

ASTM A 615 "Deformed and Plain Billet Steel Bar for Concrete Reinforcement".

ASTM A 185 "Welded Steel Wire Fabric for Concrete Reinforcement".

ASTM C 33 "Concrete Aggregates".

ASTM C 94 "Ready-Mixed Concrete".

ASTM C 150 "Portland Cement".

ASTM C 260 "Air-Entraining Admixtures".

ASTM C 309 "Liquid Membrane Forming Compounds for Curing Concrete".

ASTM C 494 "Chemical Admixture for Concrete".

B. DECORATIVE CONCRETE PAVING QUALITY ASSURANCE

- A. Installer Qualifications: An employer of workers trained and approved by manufacturer of decorative concrete paving systems.
- B. Source Limitations: Obtain decorative concrete paving products and each type or class of cementitious material of the same brand from same manufacturer's plant, and obtain each aggregate from single source.
- C. Mockups: Build mockups to verify selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
 - 1. Build mockups of full-thickness sections of decorative concrete paving to demonstrate typical joints; surface color, pattern, and texture; curing; and standard of workmanship.
 - 2. Build mockups of decorative concrete paving in the location and of the size indicated or, if not indicated, build mockups where directed by Architect and not less than 96 inches by 96 inches.
 - 3. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
 - 4. Approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.
 - 5. Build mockups as necessary until approved by the Architect at no additional cost to the Owner. Remove rejected mockups.

1.3 CONCRETE TESTING:

- A. The contractor shall furnish all concrete mix designs to the Engineer for review. ***Concrete placement will not be allowed until the mix design has been approved.***
- B. Materials and installed work may require testing and retesting, as directed by the Engineer at anytime during progress of work. Allow free access to material during progress of work. Allow free access to material stockpiles and facilities. Tests, including retesting of rejected materials and installed work, shall be done at Contractor's expense.
- C. ***The contractor shall employ at his expense a testing laboratory acceptable to the Engineer to perform material evaluation, design concrete mixes, take test specimens in the field, and perform all applicable test.*** All field technicians shall have taken and successfully passed the ACI approved course as specified by ACI C94.
- D. The testing laboratory providing quality control has total authority and responsibility for the concrete exiting the truck. Any alteration of the concrete in the truck including addition of water, admixtures, or any other product will be allowed only at the discretion of the testing laboratory.
- E. The quality control laboratory has total authority of rejection of concrete prior to placement for duration of time since departure from batch plant, or any inconsistency or deviation from standards set forth herein.
- F. Compression Test Specimens: ASTM C31; one set is defined as 4 standard cylinders for each compressive strength test, unless otherwise indicated or directed. Mold and store cylinders for laboratory cured test specimens except field-cure one test specimen.
- G. Compressive Strength Tests: ASTM C39; a minimum of one set as follows or fraction thereof, of each concrete class placed in any one day. 1 specimen tested at 7 days, 1 specimen tested at 28 days Test Field cured specimen at 28 days, 1 cylinder held as a test back up cylinder at 56 days or as directed by Engineer.

Retaining Walls:	1 set for each 25 cubic yards
Concrete Paving:	1 set for each 25 cubic yards
Concrete Walks:	Not Required
Concrete Curb Gutters:	Not Required
- H. Manholes, Catch Basins, Junction Boxes, Fence Post, Light Pole Supports, Headwalls:
Not Required
- I. Slump: ASTM C143; one test for each concrete load at point of discharge; and one test for each set of compressive strength test specimens.
- J. Air Content: ASTM C173, volumetric method for normal weight for each concrete load at point of discharge; and one test for each set of compressive strength test specimens.

- K. Concrete Temperature: Test hourly when air temperature is 40 degrees F and below; and when 80 degrees and above; and each time a set of compression test specimens made.
- L. When strength of field-cured cylinders is less than 85% of companion laboratory-cured cylinders, evaluate current operations and provide corrective procedures for protection and curing in-place concrete.
- M. Test results will be reported in writing to Engineer and Contractor on same day that tests are made. Reports of compressive strength tests shall contain the project identification name and number, date of concrete placements, name of concrete testing service, concrete type and class design mix identification, locations of concrete batch in structure shall be described so that it is easily determined where and to what extent it is in the project. Design compressive strength at 28 days, concrete mix proportions and materials; compressive breaking strength and type of test results shall be considered satisfactory if they equal 70% of the 28 day design requirements at a 7 day break.
- N. Additional Tests: The testing service will make additional test of in-place concrete when test results indicate specified concrete strength and other characteristics have not been attained in the structure, as directed by Engineer. Testing service may conduct tests to determine adequacy of concrete by cored cylinders complying with ASTM C42, or by other methods as directed. Contractor shall pay for such tests conducted, and any other additional testing as may be required, when unacceptable concrete is verified.

1.4 CEMENT MIXES

- A. Ready-Mix Concrete: Comply with requirements of ANSI/ASTM C94, and as herein specified. Concrete Design mix is to be established to provide concrete of ten percent (10%) higher strength than the specified job strength.
- B. Design mixes to provide required strength concrete with the following properties:
 - 4,000 psi 28-day compressive strength.
 - W/C ratio, 0.40 maximum.
- C. Proportions shall be made by weight and shall be uniformly and accurately controlled and inspected by the testing laboratory. During hot weather or under conditions contributing to rapid setting of concrete a shorter mixing time than specified in ANSI/ASTM C 94 may be required.

PART 2 – PRODUCTS

2.1.1 DECORATIVE CONCRETE MATERIALS

- A. Color Pigment: ASTM C 979, synthetic mineral-oxide pigments or colored water-reducing admixtures; color stable, nonfading, and resistant to lime and other alkalis.
- 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Bon Tool Co.
 - b. Brickform.
 - c. Butterfield Color.
 - d. ChemMasters.
 - e. Davis Colors.
 - f. Dayton Superior Corporation.
 - g. Decosup Inc.
 - h. Dynamic Color Solutions, Inc.
 - i. Elementis Pigments.
 - j. Hoover Color Corporation.
 - k. Lambert Corporation.
 - l. QC Construction Products.
 - m. Scofield, L. M. Company.
 - n. Solomon Colors, Inc.
 - o. Specialty Concrete Products, Inc.
 - p. Stampcrete International Ltd.
 - q. SureCrete Design Products.
 - r. Bomanite Corporation

2.2.1 DECORATIVE CONCRETE RELATED MATERIALS

- B. Pigmented Powder Release Agent: Factory-packaged, dry combination of surface-conditioning and dispersing agents interground with color pigments that facilitates release of stamp mats. Use color pigments that are finely ground, nonfading mineral oxides interground with cement.
- 1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Advanced Surfaces Inc.; Release Agent.
 - b. Artcrete, Inc.; Faux Brick Release Agent - Powder.
 - c. Bomanite Corporation; Release Agent.
 - d. Bon Tool Co.; True Color Release Agent.
 - e. Brickform; Antique Release.
 - f. Butterfield Color; Perma-Cast Antiquing Release.
 - g. Decosup Inc.; Decosup Release Powder.
 - h. Dynamic Color Solutions, Inc.; Dynamicast Color Release Agent.

- i. QC Construction Products; [**QC Release Powder I**] [**QC Release Powder II**].
 - j. Scofield, L. M. Company; LITHOCHROME Antiquing Release.
 - k. Southern Color N.A., Inc.; Mosaics Antique Release.
 - l. Specialty Concrete Products, Inc.; SCP Powder Release Agent.
 - m. Stampcrete International Ltd.; Colored Release Agent.
 - n. SuperStone, Inc.; Pigmented Release Powder.
 - o. SureCrete Design Products; Powder Release.
- C. Liquid Release Agent: Manufacturer's standard, clear, evaporating formulation that facilitates release of stamp mats and texture rollers.
- 1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Advanced Surfaces Inc.; Liquid Release.
 - b. Artcrete, Inc.; Faux Brick Release Agent - Liquid.
 - c. Bon Tool Co.; Liquiform Release Agent.
 - d. Brickform; Liquid Release.
 - e. Butterfield Color; Butterfield Color Clear Liquid Release.
 - f. Decosup Inc.; Decosup Liquid Release.
 - g. Matcrete Precision Stamped Concrete Tools; Liquid Release Agent.
 - h. Proline Concrete Tools, Inc.; Dura-Liquid Release Agent.
 - i. QC Construction Products;
 - j. Scofield, L. M. Company; LITHOTEX Liquid Release.
 - k. Southern Color N.A., Inc.; Mosaics Clear Liquid Release.
 - l. Stampcrete International Ltd.; Stampcrete Liquid Release.
 - m. Superior Decorative by Dayton Superior; Pro Liquid Release.
 - n. SuperStone, Inc.; Bubble Gum Liquid Release.
 - o. Symons by Dayton Superior; Clear Liquid Release.

2.3 STAMPING DEVICES

- D. Stamp Mats: Semirigid polyurethane mats with projecting textured and ridged underside capable of imprinting texture and joint patterns on plastic concrete.
- 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Advanced Surfaces Inc.
 - b. Bomanite Corporation.
 - c. Bon Tool Co.
 - d. Brickform.
 - e. Butterfield Color.
 - f. Creative Urethane Concepts, Inc.
 - g. Matcrete Precision Stamped Concrete Tools.
 - h. Proline Concrete Tools, Inc.
 - i. Scofield, L. M. Company.
 - j. Southern Color N.A., Inc.

- k. Stampcrete International Ltd.
- l. Superior Decorative by Dayton Superior.
- m. SuperStone, Inc.
- n. SureCrete Design Products.

2.4 CONCRETE MIXTURES

- E. Color Pigment: Add color pigment to concrete mixture according to manufacturer's written instructions.

PART 3 - EXECUTION

3.1 PREPARATION OF FORM SURFACES:

- A. Coat contact surfaces of forms with a form-coating compound before reinforcement is placed.
- B. Thin form-coating compounds only with thinning agent of type, and in amount, and under conditions of form-coating compound manufacturer's directions. Do not allow excess form-coating material to accumulate in forms or to come into contact with concrete surfaces against which fresh concrete will be placed. Apply in compliance with manufacturer's instructions.

3.2 CONCRETE PLACEMENT:

- A. Preplacement Inspection: Before placing concrete, inspect and complete formwork installation, reinforcing steel, and items to be embedded or cast-in. Notify other crafts to permit installation of their work; cooperate with other trades in setting such work. Moisten wood forms immediately before placing concrete where form coatings are not used.
- B. Coordinate the installation of joint materials and moisture barriers with placement of forms and reinforcing steel.
- C. General: Comply with ACI 304, and as herein specified.
- D. Deposit concrete continuously or in layers of such thickness that no concrete will be placed on concrete which has hardened sufficiently to cause the formation of seams or planes of weakness. If a section cannot be placed continuously, provide construction joints as herein specified. Deposit concrete as nearly as practicable to its final location to avoid segregation.
- E. Placing Concrete in Forms: Deposit concrete in forms in horizontal layers not deeper than 24" and in a manner to avoid inclined construction joints. Where placement consists of several layers, place each layer while preceding layer is still plastic to avoid cold joints.
- F. Consolidate placed concrete by mechanical vibrating equipment supplemented by hand-spading, roding or tamping.

- G. Use equipment and procedures for consolidation of concrete in accordance with ACI recommended practices.
- H. Do not use vibrators to transport concrete inside forms. Insert and withdraw vibrators vertically at uniformly spaced locations not farther than visible effectiveness of machine. Place vibrators to rapidly penetrate placed layer and at least 6" into preceding layer. Do not insert vibrators into lower layers of concrete that have begun to set. At each insertion limit duration of vibration to time necessary to consolidate concrete and complete embedment of reinforcement and other embedded items without causing segregation of mix.
- I. Placing Concrete Slabs: Deposit and consolidate concrete slabs in a continuous operation within limits of construction joints until the placing of a panel or section is completed.
- J. Consolidate concrete during placing operations so that concrete is thoroughly worked around reinforcement and other embedded items and into corners.
- K. Bring slab surfaces to correct level with straightedge and strike off. Use bull floats or darbies to smooth surface, free of humps or hollows. Do not disturb slab surfaces prior to beginning finishing operations.
- L. Maintain reinforcing in proper position during concrete placement operations.
- M. Cold Weather Placing: Protect concrete work from physical damage or reduced strength which could be caused by frost, freezing actions, or low temperatures, in compliance with ACI 306 and as herein specified.

When air temperature has fallen to or is expected to fall below 40 degrees F. (4 degrees C), do not place concrete.

- N. Do not use frozen materials or materials containing ice or snow. Do not place concrete on frozen subgrade or on subgrade containing frozen materials.
- O. Do not use calcium chloride, salt and other materials containing antifreeze agents or chemical accelerators, unless otherwise accepted in mix designs.
- P. Hot Weather Placing: When hot weather conditions exist that would seriously impair quality and strength of concrete, place concrete in compliance with ACI 305.
- Q. Wet forms thoroughly before placing concrete.
- R. Use water-reducing retarding admixture (Type D) when required by high temperatures, low humidity, or other adverse placing conditions.
- S. If the testing laboratory technician, at the job site, determines that water is to be added to a load of concrete, the drum shall be turned 60 to 80 revolutions at 12 to 15 revolutions per minute after the water has been added. The slump is then to be rechecked.

3.3 FINISH OF FORMED SURFACES:

- A. Rough Form Finish: For formed concrete surfaces not exposed-to-view in the finish work or by other construction, unless otherwise indicated. This is the concrete surface having texture imparted by form facing material used, with tie holes and

defective areas repaired and patched and fins and other projections exceeding 1/4" in height rubbed down or chipped off.

- B. Smooth Form Finish: For formed concrete surfaces exposed-to-view, or that are to be covered with a coating material applied directly to concrete, or a covering material applied directly to concrete, such as waterproofing, dampproofing, painting or other similar system. This is as-cast concrete surface obtained with selected form facing material, arranged orderly and symmetrically with a minimum of seams. Repair and patch defective areas with fins or other projections completely removed and smoothed.
- C. Moisten concrete surfaces and rub with Carborundum brick or other abrasive until a uniform color and texture is produced. Do not apply cement grout other than that created by the rubbing process.
- D. Rubbed Concrete: Provide rubbed finish to concrete surfaces which are in view in interior and exterior locations, or as indicated on the plans.
- E. Combine one part Portland cement to 1-1/2 parts fine sand by volume, and mix with water to consistency of thick paint. Use of proprietary additives may be used at contractor's option. Blend standard Portland cement and white Portland cement, amounts determined by trial patches, so that final color of dry grout will closely match adjacent surfaces.
- F. Thoroughly wet concrete surfaces and apply grout to coat surfaces and fill small holes. Remove excess grout by scraping and rubbing with clean burlap. Keep damp by fog spray for at least 36 hours after rubbing.
- F. Related Uniformed Surfaces: At tops of walls, horizontal offsets surfaces occurring adjacent to formed surfaces, strike-off smooth and finish with a texture matching adjacent formed surfaces. Continue final surface treatment of formed surfaces uniformly across adjacent unformed surfaces, unless otherwise indicated.

3.4 MONOLITHIC SLAB FINISHES:

- A. Float Finish: Apply float finish to monolithic slab surfaces to receive trowel finish and other finishes as hereinafter specified, and slab surfaces which are to be covered with membrane or elastic waterproofing, membrane or elastic roofing, or sand-bed terrazzo, and as otherwise indicated.
- B. After screening, consolidating, and leveling concrete slabs, do not work surface until ready for floating. Begin floating when surface water has disappeared or when concrete has stiffened sufficiently to permit operation of power-driven floats, or both. Consolidate surface with power-driven floats, or by hand-floating if area is small or inaccessible to power units. Check and level surface plane to a tolerance not exceeding 1/4" in 10' when tested with a 10' straightedge. Cut down high spots and fill low spots. Uniformly slope surfaces to drains. Immediately after leveling, refloat surface to a uniform, smooth, granular texture.
- C. Trowel Finish: Apply trowel finish to monolithic slab surfaces to be exposed-to-view, and slab surfaces to be covered with resilient flooring, paint or other thin film finish coating system.

- D. After floating, begin first trowel finish operation using a power-driven trowel. Begin final troweling when surface produces a ringing sound as trowel is moved over surface. Consolidate concrete surface by final hand-troweling operation, free of trowel marks, uniform in texture and appearance, and with a surface plane tolerance not exceeding 1/8" in 10' when tested with a 10' straightedge.
- E. Non-Slip Broom Finish: Apply non-slip broom finish to exterior concrete platforms, steps and ramps, and elsewhere as indicated.
- F. Immediately after trowel finishing, slightly roughen concrete surface by brooming with fiber bristle broom perpendicular to main traffic route. Coordinate required final finish with Engineer before application.

3.5 CONCRETE CURING AND PROTECTION:

- A. General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures.
- B. Start initial curing as soon as free water has disappeared from concrete surface after placing and finishing. Weather permitting, keep continuously moist for not less than seven days.
- C. Begin final curing procedures immediately following initial curing and before concrete has dried. Continue final curing for at least seven days in accordance with ACI 301 procedures. Avoid rapid drying at end of final curing period.
- D. Provide moisture-cover curing as follows:
- E. Cover concrete surfaces with moisture-retaining cover for curing concrete placed in widest practicable width with sides and ends lapped at least 3" and sealed by waterproof tape or adhesive. Immediately repair any holes or tears during curing period using cover material and waterproof tape.
- F. Curing Formed Surfaces: Cure formed concrete surfaces, including undersides of beams, supported slabs and other similar surfaces by moist curing with forms in place for full curing period or until forms are removed. If forms are removed, continue curing by using curing compound.

3.6 MATERIALS:

- A. Forms: Steel, wood, or other suitable material of size and strength to resist movement during concrete placement and to retain horizontal and vertical alignment until removal. Use straight forms, free of distortion and defects. Use flexible spring steel forms or laminated boards to form radius bends as required. Coat forms with a non-staining form release agent that will not discolor or deface surface of concrete.
- B. Welded Wire Mesh: Welded plain cold-drawn steel wire fabric.
 - 1. Concrete Paving (5") -----6 x 6 W2.9 x W2.9 (1 Layer)
 - 2. Heavy-Duty Concrete Paving (7") -----6 x 6 W2.9 x W2.9 (2 Layers)
 - 3. Heavy-Duty Concrete Paving (8") -----6 x 6 W2.9 x W2.9 (2 Layers)
- C. Reinforcing Bars: Deformed steel bars, ASTM A 615, Grade 60.

- D. Concrete Materials: Comply with requirements of applicable Division 32 sections for concrete materials, admixtures, bonding materials, curing materials, and others as required.
- E. Expansion Joint Material: to be asphalt impregnated 2" thick meeting ASTM-D-1751.
- F. Expansion Joint Cap: Greenstreak #941 plastic cap for 2" joints.
- G. Joint Sealant: Sonneborn Sonolastic SL-2 Sealant or Dow Corning 890 Silicone. Color shall be concrete.
- H. Curing and Sealing Compound: Conform to TT-C-800, with 30% solids content minimum.
- I. Epoxy Resin Grout: FS MMM-G-650.

3.7 JOINTS:

- A. All joints shall be installed as shown on the Joint Layout in the project plans unless otherwise directed by the Engineer. If contractor desires to install joints different than as shown on project plans, a drawing showing all joints with dimensions shall be submitted to the engineer for review. No concrete shall be placed until joint layout has been approved if different than project plans.***
- B. All joints (construction, control, and expansion) shall be sealed using joint sealant.***
- C. General: Construct expansion, weakened-plane (contraction), and construction joints true-to-line with face perpendicular to surface of concrete. Construct transverse joints at right angles to the centerline, unless otherwise indicated. When joining existing structures, place transverse joints to align with previously placed joints, unless otherwise indicated.
- D. Tooled Joints: Form weakened-plane joints in fresh concrete by grooving top portion with a recommended cutting tool and finishing edges with a jointer.
- E. Expansion Joints: Provide premolded joint filler for expansion joints abutting concrete curbs, catch basins, manholes, inlets, structures, walks and other fixed objects, unless otherwise indicated. Extend joint fillers full-width and depth of joint, and not more than 2" or less than 1" below finished surface. Furnish joint fillers in one-piece lengths for full width being placed, wherever possible. Where more than one length is required, lace or clip joint filler sections together. Install expansion joint cap on premolded expansion joint material and protect until concrete has been placed on each side. Protect top edge of joint filler cap during concrete placement. Remove protection after concrete has been placed on both sides of joint.
- D. Expansion Joint Sealers: Remove plastic cap and provide joint sealant in all expansion joints and comply with manufacturers instructions.

3.8 MISCELLANEOUS CONCRETE ITEMS:

- A. Filling-In: Fill-in holes and openings left in concrete structures for passage of work by other trades, unless otherwise shown or directed, after work of other trades is in place. Mix, place and cure concrete as herein specified to blend with in-place construction. Provide other miscellaneous concrete filling shown or required to complete work.
- B. All areas under concrete floor slab shall have moisture barrier with joints lapped at least 12". Take care to lay material smooth and even, and avoid tearing or puncturing. Seal tightly at all expansion joints and spaces around pipes, conduits and other penetrations using coal, tar, pitch, or asphalt mastic.
- C. The general contractor is to VERIFY the sizes and locations of all required floor and roof openings, equipment supports, etc. with the various subcontractors. Any conditions which require revisions or additions to the structural framing are to be brought to the attention of the architect and structural engineer prior to any construction. Any cost for the required changes will be borne by the general contractor.
- D. Reinforced Masonry: Provide pea gravel aggregate in concrete grout for reinforced masonry lintels and bond beams where indicated on drawings and as scheduled. Allow 6" slump. Maintain accurate location of reinforcing steel during concrete placement.

3.9 CONCRETE SURFACE REPAIRS:

- A. ***If the Engineer determines that the installed concrete paving does not meet the specifications it will be the responsibility of the Contractor to drill test cores where directed by Engineer at the Contractor's expense. The Contractor will also be responsible for payment of testing by a certified testing laboratory to ensure all concrete paving is per the specifications. In the event that the concrete paving does not comply with the specifications after testing, the Contractor shall remove all areas not complying with specifications and replace at no additional cost to the Owner.***
- B. Patching Defective Areas: Repair and patch defective areas with cement mortar immediately after removal of forms, when acceptable to Engineer.
- C. Cut out honeycomb, rock pockets, voids over 1/4" in any dimension, and holes left by tie rods and bolts, down to solid concrete but, in no case to a depth of less than one inch (1"). Make edges of cuts perpendicular to the concrete surface. Thoroughly clean, dampen with water and brush-coat the area to be patched with specified bonding agent. Place patching mortar after bonding compound has dried.
- D. For exposed-to-view surfaces, blend white Portland cement and standard Portland cement so that, when dry, patching mortar will match color surrounding. Provide test areas at inconspicuous location to verify mixture and color match before proceeding with patching. Compact mortar in place and strike-off slightly higher than surrounding surface.
- E. Repair of Formed Surfaces: Remove and replace concrete having defective surfaces if defects cannot be repaired to satisfaction of Engineer. Surface defects, as such,

include color and texture irregularities, cracks, spalls, air bubbles, honeycomb, rock pockets; fins and other projections on surface; and stains and other discolorations that cannot be removed by cleaning. Flush out form tie holes, fill with dry pack mortar, or precast cement cone plugs secured in place with bonding agent.

- F. Repair concealed formed surfaces, where possible, that contain defects that affect the durability of concrete. If defects cannot be repaired, remove and replace concrete to the satisfaction of the Engineer.
- G. Repair of Unformed Surfaces: Test unformed surfaces, such as monolithic slabs, for smoothness and verify surface planes to tolerances specified for each surface and finish. Correct low and high areas as herein specified. Test unformed surfaces sloped to drain for trueness of slope, in addition to smoothness, using a template having required slope.
- H. Repair finished unformed surfaces that contain defects which affect durability of concrete. Surface defects, as such, include crazing, cracks in excess of 0.01" wide or which penetrate to reinforcement or completely through non-reinforced sections regardless of width, spalling, pop-outs, honeycomb, rock pockets, and other objectionable conditions.
- I. Correct high areas in unformed surfaces by grinding, after concrete has cured at least fourteen days.
- J. Correct low areas in unformed surfaces during, or immediately after completion of surface finishing operations by cutting out low areas and replacing with fresh concrete. Finish repaired areas to blend into adjacent concrete. Proprietary patching and floor leveling compounds may be used when acceptable to Engineer.
- K. Repair defective areas, except random cracks and single holes not exceeding one inch (1") diameter, by cutting out and replacing with fresh concrete. Remove defective areas to sound concrete with clean, square cuts and expose reinforcing steel with at least 3/4" clearance all around. Dampen concrete surfaces in contact with patching concrete and apply bonding compound. Mix patching concrete of same materials to provide concrete of same type or class as original concrete. Place, compact and finish to blend with adjacent finished concrete. Cure in same manner as adjacent concrete.
- L. Repair isolated random cracks and single holes not over one inch (1") in diameter by dry-pack method. Groove top of cracks and cut-out holes to sound concrete and clean of dust, dirt and loose particles. Dampen cleaned concrete surfaces and apply bonding compound. Mix dry-pack, consisting of one part Portland cement to 2-1/2 parts fine aggregate passing a No. 16 mesh sieve, using only enough water as required for handling and placing. Place dry pack after bonding compound has dried. Compact dry-pack mixture in place and finish to match adjacent concrete. Keep patched area continuously moist for not less than seventy-two (72) hours.
- M. Use epoxy-based mortar for structural repairs, where directed by Engineer.
- N. Repair methods not specified above may be used, subject to acceptance of Engineer.

3.10 PIGMENTED MINERAL DRY-SHAKE HARDENER

- F. Pigmented Mineral Dry-Shake Hardener Finish: After initial floating, apply dry-shake materials to paving surfaces according to manufacturer's written instructions and as follows:
1. Uniformly apply dry-shake hardener at a rate of 100 lb/100 sq. ft. unless greater amount is recommended by manufacturer to match paving color required.
 2. Uniformly distribute approximately two-thirds of dry-shake hardener over the concrete surface with mechanical spreader; allow hardener to absorb moisture and embed it by power floating. Follow power floating with a second application of pigmented mineral dry-shake hardener, uniformly distributing remainder of material at right angles to first application to ensure uniform color, and embed hardener by final power floating.
 3. After final power floating, apply the following finish:
 - a. Burlap Finish: Drag a seamless strip of damp burlap across float-finished concrete, perpendicular to line of traffic, to provide a uniform, gritty texture.
 - b. Medium-to-Fine-Textured Broom Finish: Draw a soft bristle broom across float-finished concrete surface, perpendicular to line of traffic, to provide a uniform, fine-line texture.
 - c. Medium-to-Coarse-Textured Broom Finish: Provide a coarse finish by striating float-finished concrete surface 1/16 to 1/8 inch deep with a stiff-bristled broom, perpendicular to line of traffic.
- G. Pigmented Powder Release Agent: Uniformly distribute onto dry-shake-hardened and still-plastic concrete at a rate of 3 to 4 lb/100 sq. ft..
- H. Liquid Release Agent: Uniformly mist surface of dry-shake-hardened and still-plastic concrete at a rate of 5 gal/1000 sq. ft..

3.11 STAMPING

- I. Mat Stamping: After floating and while concrete is plastic, apply mat-stamped finish.
1. Pigmented Powder Release Agent: Uniformly distribute onto concrete at a rate of 3 to 4 lb/100 sq. ft..
 2. Liquid Release Agent: Apply liquid release agent to the concrete surface and the stamp mat. Uniformly mist surface of concrete at a rate of 5 gal/1000 sq. ft..
 3. After application of release agent, accurately align and place stamp mats in sequence.
 4. Uniformly load mats and press into concrete to produce required imprint pattern and depth of imprint on concrete surface. Gently remove stamp mats. Hand stamp edges and surfaces unable to be imprinted by stamp mats.
 5. Remove residual release agent according to manufacturer's written instructions, but no fewer than three days after stamping concrete. High-pressure-wash

surface and joint patterns, taking care not to damage stamped concrete.
Control, collect, and legally dispose of runoff.

END OF SECTION

SPECIAL PROVISION 901-S-618-1
STATE AID
PROJECT NUMBER DECD-0018(14)BO
FORREST COUNTY, MISSISSIPPI

July 15, 2020

SUBJECT: SUPPLEMENT TO TRAFFIC CONTROL PLAN

The project roads which are included in the Traffic Control Plan include: U.S. Highway 49, Mamie Street, Adeline Street, Arlington Loop, Camp Street, 25th Ave, and 27th Ave. The traffic control will be as shown on the Construction Signing sheets of the project plans and will generally be as follows:

PHASE 1

1. *Consists of all improvements necessary to construct the bypass road along Mamie Street adjacent to the ER. It is the contractor's responsibility to maintain ER access along Mamie Street until the construction of the bypass road is complete and operational.*

PHASE 2

1. *Consists of all improvements necessary for complete operation of the Camp Street/Mamie Street intersection. Phase includes all improvements between 27th Avenue and Highway 49, all improvements along the East Frontage Road north of Mamie Street, and all improvements north of Pat Harrison Waterway on the West Frontage Road. Phase also includes work within the emergency room parking lot adjacent to Mamie Street, and parking lot between Mamie Street and West Frontage road and south of Camp Street.*
2. *No access between the frontage roads and Highway 49 will be permitted during this phase. It will be the responsibility of the contractor to ensure that the frontage road access is barricaded off (see sheet TCP-10) until Phases 2 thru 4 have been completed.*

PHASE 3

1. *Consists of all improvements necessary for complete operation of the Highway 49/Camp Street intersection not included in phase 2 with exception of signal operation. Phase includes median work along Highway 49 from Sta. 213+80 to end of project on Highway 49, all improvements between 25th Avenue and Highway 49, and all non-participating items along West Camp Street adjacent to Attorney office.*
2. *No access between the frontage roads and Highway 49 will be permitted during this phase. It will be the responsibility of the contractor to ensure that the frontage road access is barricaded off (see sheet TCP-10) until Phases 2 thru 5 have been completed.*

PHASE 4

1. *Consists of all improvements necessary for complete operation of the Highway 49/Adeline Street intersection with exception of the signal operation. All improvements to the West Frontage Road, the addition of the Highway 49 southbound turn lane, Highway 49 median work from Sta. 196+00 to Sta. 202+60, and all improvements to Adeline Street shall be in place prior to the commencement of Phase 5 work.*
2. *At the completion of this phase, the signals at Adeline Street and Camp Street may be put into operation. Until both signals are operational Adeline Street will be open to vehicular traffic for the Southbound lanes ONLY. Northbound traffic will not be allowed to utilize Adeline Street until the proposed signals at Camp and Adeline are in operation and the existing Mamie Street signal is taken out of service.*

PHASE 5

1. *Consists of Highway 49 median work from Sta. 202+60 to 213+80.*
2. *Both signals shall be operational before Phase 5 work can begin.*

PHASE 6

1. *Consists of all improvements necessary for complete operation of the Highway 49/Mamie Street intersection not included in phases 1 through 5. Phase includes all improvements to the West and East Frontage Roads not completed though Phase 5, and work along Mamie Street to the Beginning of the previously constructed ER Bypass Road.*

PHASE 7

1. *Consists of improvements necessary to connect the proposed ER exit to Mamie Street improvements completed in Phase 2.*

PHASE 8

1. *Consists of all improvements required along Mamie Street not completed in Phase 1 through Phase 7, and removal of bypass roadway previously constructed in Phase 1. Contractor shall repair any damage to parking lot at north end of bypass roadway.*

The Contractor will be responsible for placing, maintaining, and operating variable message board signs as shown on the Construction Signing sheets. The Contractor shall maintain access for residents living within the project limits and access to commercial facilities within the project limits at all times. The Contractor will not be responsible for maintenance of the detour roadway, but all detour signs and associated signs shall be installed and maintained by the Contractor as a part of this project. Local traffic will be maintained at all times between the detour routes as provided for on the Traffic Control Plan.

After the roadway construction and the paving operations are complete; but prior to permanent striping, the project roadways shall be opened to all traffic. At this time all construction traffic control devices shall be removed and temporary pavement markings shall be installed that consist of temporary striping per MDOT standard sheet 6265 (Temporary Striping For Traffic Control 4-Lane and 5-Lane Undivided Roadways).

The Contractor shall have no trucks, equipment, supplies, or material parked or stored within close proximity of a traveled lane in use by public traffic. The specific requirements of the Contractor's responsibility are as required by subsections S-104.04, S-105.15, S-107.07, and S-107.10; and part VI of the MUTCD, latest edition. The requirements of this sheet do not alter or in any way change the requirements of the foregoing or any other requirements of the contract, except as specifically stated herein as an alteration or change.

Within three weeks of a traffic-related accident occurring within the limits of the project, the Contractor shall provide the Engineer with a copy of an accident report for each accident. If analysis of the accident report by appropriate personnel reveals that corrective action is required, the Contractor shall proceed immediately with same.

Mr. Clayton Bennett is designated as the responsible person to insure the Contractor constructs, installs and maintains the devices called for on the Construction Signing sheets of the plans. An inspection of the traffic control signs and devices shall be performed at periods not exceeding one week regardless of construction activity within the project. If any deficiencies are found the Contractor will be notified as such deficiencies shall be corrected immediately.

Supplemental Specification
901-S-701-2
Portland Cement

OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DATE: May 10, 2006

SUBJECT: Portland Cement

Section S-701 - HYDRAULIC CEMENT; of the MISSISSIPPI STANDARD SPECIFICATIONS FOR STATE AID ROAD AND BRIDGE CONSTRUCTION 2004 EDITION is hereby amended as follows:

901-S-701.01--Portland Cement. Delete the third paragraph and table in Subsection 701.01 on page 7-9, and substitute the following:

When Portland cement concrete or cement for soil stabilization is exposed to moderate or severe soluble sulfates, or to seawater, cement types and replacement of cement by Class F fly ash (FA), ground granulated blast furnace slag (GGBFS), or metakaolin shall be as follows:

Cementitious Materials for Soluble Sulfate Conditions

Sulfate Exposure	Water-soluble sulfate (SO ₄) in soil, % by mass	Sulfate (SO ₄) in water, ppm	Cementitious material required
Negligible	0.00 - 0.10	0.0 - 150	- - -
Moderate and Seawater	0.10 - 0.20	150 - 1500	Type II**** cement, or Type I cement with one of the following replacements of cement: 25% Class F, FA, or 50% GGBFS, or 10% metakaolin
Severe	0.20 - 2.00	1500 - 10,000	Type II* cement with one of the following replacements of cement: 25% Class F, FA, or 50% GGBFS, or 10% metakaolin

* Type I cement with a maximum 8% tricalcium aluminate may be used in lieu of Type II Cement.

** Class F, FA or GGBFS may be added as a replacement for Portland cement in accordance with the proportions as listed in this table.

Class C fly ash shall not be used as a replacement for Portland cement in any of the sulfate exposure conditions listed above.

Supplemental Specification
901-S-708-1
Non-Metal Drainage Structures

OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DATE: May 10, 2006

SUBJECT: Non-Metal Drainage Structures:

Section S-708 - NON-METAL STRUCTURES AND CATTLEPASSES; of the MISSISSIPPI STANDARD SPECIFICATIONS FOR STATE AID ROAD AND BRIDGE CONSTRUCTION 2004 EDITION is hereby amended as follows:

901-S-708.02.3.2--Marking: Delete the second sentence of Subsection 708.02.3.2 on page 7-53, and substitute the following:

Machine made Pipe shall be marked in accordance with one of the following methods: 1) the pipe shall be inscribed on the outside of the pipe and stenciled on the inside of the pipe, or 2) the pipe shall be inscribed on the inside of the pipe, only. All other pipe may be stenciled.

901-S-708.22.2--Exceptions to AASHTO: Delete the sixth paragraph of Subsection 708.22.2 on page 7-61.

Supplemental Specification
901-S-711-2
Synthetic Structural Fiber Reinforcement

OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DATE: May 10, 2006

SUBJECT: Synthetic Structural Fiber Reinforcement:

Section S-711 - REINFORCEMENT AND WIRE ROPE; of the MISSISSIPPI STANDARD SPECIFICATION FOR STATE AID ROAD AND BRIDGE CONSTRUCTION 2004 EDITION is hereby amended as follows:

After Subsection S-711.03.4.3 on page 7-83, add the following:

901-S-711.04--Synthetic Structural Fiber. Synthetic structural fibers shall meet the requirements of ASTM Designation: C 1116, Section 4.1.3, Part III. The fibers shall be monofilament made of polypropylene or polypropylene/polyethylene blend meeting the following conditions:

<u>Property</u>	<u>Results</u>
Length, minimum	1.5 inches
Aspect Ratio (length / equivalent diameter).....	90
Breaking tenacity, minimum*	530 mN/tex
(Tensile Strength, minimum	70 ksi)
Chord modules, minimum*	980 cN/tex
(Modulus of Elasticity, minimum	1,300 ksi)

* When tested in accordance with ASTM Designation: D 3822

The dosage rate for the fibers shall be a minimum of three pounds per cubic yard (3 lb / yd³). The dosage rate for the fibers when used in pile encasements shall be a minimum of four pounds per cubic yard (4 lb / yd³).

The manufacturer shall furnish the Engineer three copies of the certified test report(s) showing results of all required tests, and certification that the material meets the specifications.

Supplemental Specification
901-S-714-1
Geotextile Certification

OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DATE: July 1, 2005

SUBJECT: Geotextile Certification:

Section S-714 - MISCELLANEOUS MATERIALS; of the MISSISSIPPI STANDARD SPECIFICATION FOR STATE AID ROAD AND BRIDGE CONSTRUCTION 2004 EDITION is hereby amended as follows:

901-S-714.13.10--Acceptance By Certification. After the second sentence of Subsection S-714.13.10 on page 7-105 insert the following:

Additionally, at least one certified test report, as per S-700.05.2, for each manufacturer's lot shall be furnished to the Engineer by the Contractor at no additional cost to the project.

OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DATE: May 10, 2006

SUBJECT: Miscellaneous Materials:

Section S-714-MISCELLANEOUS MATERIALS; of the MISSISSIPPI STANDARD SPECIFICATIONS FOR STATE AID ROAD AND BRIDGE CONSTRUCTION 2004 EDITION is hereby amended as follows:

Delete Subsection 714.07 on page 7-92 and substitute the following:

901-S-714.07--Other Cementitious Materials:

901-S-714.07.1--Metakaolin:

901-S-714.07.1.1--Metakaolin--General: Metakaolin shall only be used to bring the cementitious materials in Portland cement concrete and cement for soil stabilization into compliance with the requirements for cementitious materials exposed to soluble sulfate conditions. The approval of each metakaolin source shall be on a case by case basis as determined by the MDOT State Materials Engineer. Source approval will be based on, but not limited to, review of the proposed source's quality control program, production history, certified test reports, certification of shipment from the supplier, and job control sampling and testing requirements.

The Contractor shall provide suitable means for storing and protecting the metakaolin against dampness and contamination Metakaolin which has become partially set, caked, or contains lumps shall not be used.

The MDOT State Materials Engineer shall be notified in writing of the nature, amount and identity of any processing, or other additions made to the metakaolin during production.

Metakaolin from different sources shall not be mixed or used alternately in any one class of construction or structure without written permission from the Engineer. In addition to these requirements, metakaolin shall meet the following specific requirements.

901-S-714.07.1.2--Specific Requirements: Metakaolin shall meet the requirements of AASHTO Designation: M 295 Class N with the following modifications:

1. The sum of $\text{SiO}_2 + \text{Al}_2\text{O}_3 + \text{Fe}_2\text{O}_3$ Shall be at least 85%. The Material Safety Data Sheet shall indicate the amount of crystalline silica, as measure by National Institute of Occupation Safety and Health (NIOSH) 7500 method, after removal of the mica interference, is less than 1.0%.
2. The loss on ignition shall be less than 3.0%.
3. The available alkalis, as equivalent Na_2O , shall not exceed 1.0%.
4. The amount of material retained on the No. 325 Mesh sieve shall not exceed 1.0%.
5. The strength activity index at seven (7) days shall be at least 85%.

OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DATE: August 25, 2005

SUBJECT: Agricultural Limestone

Section S-715-ROADSIDE DEVELOPMENT MATERIALS; of the MISSISSIPPI STANDARD SPECIFICATIONS FOR STATE AID ROAD AND BRIDGE CONSTRUCTION 2004 EDITION is hereby amended as follows:

901-S-715.02.2.1.1 -- Screening Requirements. Delete the first sentence of Subsection S-715.02.2.1.1 on page 7-109 and substitute the following:

Grade "A" liming material, including ground shells, shall not have less than 90% of the material passing the No. 10 sieve, and not less than 47.5% passing the No. 6 sieve.

Delete Subsection S-715.02.2.1.2 on page 7-109 and substitute the following:

901-S-715.02.2.1.2 -- Calcium Carbonate Equivalent. Grade "A" liming material shall not have less than 85.5% calcium and magnesium carbonate calculated as calcium carbonate equivalent when expressed on a dry weight basis.

Marl or chalk liming material shall not have less than 70% calcium and magnesium carbonate calculated as calcium carbonate equivalent when expressed on a dry weight basis.

901-S-715.02.2.1.3 -- Neutralizing Values. Grade "A" liming material shall have a minimum equivalent neutralizing value (ENV) of 63.0%, which is determined as follows:

$$\text{ENV} = \text{Fineness Value} \times \text{Assay}(\%)$$

Where Fineness value = $((\% \text{ Passing \#10} - \% \text{ Passing \#60}) \times \frac{1}{2}) + \% \text{ Passing No. 60}$, expressed as a whole number.

Assay = % calcium carbonate equivalent

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-228-1

CODE: (IS)

DATE: 10/10/2018

SUBJECT: Erosion Control Blankets

Section 228, Erosion Control Blankets, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-228.02--Materials.

907-228.02.1--Blanket Types. Delete Note *** at the end of Subsection 228.02.1 on page 165, and substitute the following.

*** Per ASTM D 6818

907-228.05--Basis of Payment. Delete the pay item at the end of Subsection 228.05 on page 166, and substitute the following.

907-228-A: Erosion Control Blanket, Type ____ - per square yard

Supplemental Specification
907-604-1
Trench Drain

OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DATE: July 15, 2020

SUBJECT: Trench Drain

STANDARD SPECIFICATION

TFX12

12" (305 mm) ID Trench Forming System with Black Polymer Coated

System ID# : TS12-12.504G.FE-F20E

Manufactured by ABT, Inc.
259 Murdock Road, Troutman, NC
(800)438-6057 www.abtdrains.com

1.0 System Components:

1.1 Forms - F12FS:

Pre - manufactured trench forms using recyclable non - CFC EPS foams. Forms to be square bottom, pre -sloped or non - sloped. Form segments are 12" (305 mm) wide. Trench width created to be within 1/16" (1.58mm) of specified. Invert slope per application requirement as noted on plans. Non - sloping sections must have written approval by engineer prior to installation. Form work to be anchored against floatation to the earth without penetrating the subgrade using steel no-float legs and an anchor slab pour. Means to assure constant rail spacing and grate seat dimension must be provided. Non - petroleum based form release is to be used for smooth interior walls and easy form removal.

1.2 Grating - 12.504G.FE:

Polymer coated ductile iron longitudinally slotted/ada grates. Grates to have a 0.260 FT²/LFt (0.079 m²/Lm) open area. Grates shall pass a proof load 2469 psi (200,000 lbs) per FAA Spec. AC150/5320-6D applied to a 9 inch wide x 9 inch long load contact area. Grates must be flush with top of rails. Covers lay in their seats and are not retained.

1.3 Frames / Rails - F20E:

Post fabrication polymer coated 1.75" x 1.75" x 0.188" (44.5 mm x 44.5 mm x 4.8 mm) steel rails. Standard headed concrete anchors conforming to or exceeding American Concrete Institute's specifications. Grate rails to provide a minimum of

1.188 square inches concrete bearing area per inch of trench length on each side. Auxiliary frames are to be used as noted on plans to facilitate radii, intersections, grade changes and expansion, control & construction joints. Load bars are to be installed as noted on the plans to reinforce rails where unsupported by concrete.

2.0 Quality Assurance:

2.1 Submittals:

A Certificate of Compliance in conformance with the provisions of these Standard Specifications shall be furnished to the Engineer. Grates shall be tested by an independent test laboratory.

2.2 Post Construction Inspection:

Form work is to be fully removed, without exception, to allow for inspection and if needed repair of any voids and or concrete consolidation issues below the frame, trench walls and invert. Grate and grate retainer inspection shall be performed to ensure that all grates and retainers are installed and are properly seated in place.

END OF SECTION

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-631-1

CODE: (IS)

DATE: 11/15/2017

SUBJECT: Traffic Signal Systems - General

Section 631, Traffic Signal Systems - General, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-631.02--Materials.

907-631.02.4--Operations. Delete the second paragraph in Subsection 631.02.4 on page 513 and substitute the following.

The Contractor shall conduct the work at all times in such a manner as to ensure the least possible inconvenience to the traveling public, and to property owners on the streets, alleys, and other public places where the construction will take place.

907-631.02.5--Electrical Service. Delete the first paragraph in Subsection 631.02.5 on page 515 and substitute the following.

It shall be the Contractor's responsibility to make the necessary arrangements with the local power company to provide the electrical service for any new installation. The Contractor shall pay for, at no cost to the Department, all deposits, hook-up charges, or other service fees required by the power company for the establishment of new service. The cost of all such fees shall be considered incidental and absorbed within existing pay items. The Department or the local agency will be responsible for payment of the monthly service bill for the new power service installation. It shall be the responsibility of the Contractor to swap the electrical service account over to the Department or local agency.

907-631.03--Construction Requirements.

907-631.03.2--Electrical Service Equipment. Delete the paragraphs of Subsection 631.03.2 on pages 515 and 516, and substitute the following.

The power supply assembly shall consist of all equipment mounted in a Power Service Pedestal as described in Subsection 722.13 or as otherwise shown in the plans. The configuration and installation of the equipment mounted on the assembly shall meet the safety requirements and approval of the utility company or municipality furnishing power for operation.

When required, service poles shall be provided by the Contractor and consist of wood poles with required pole line hardware, conduit, ground rods, guy wires and anchors and all other accessories and appurtenances mounted on the pole, except those items furnished by the utility company or

municipality, or as specified separately in the contract or plans. Costs of service poles shall be included in other items bids.

Main disconnect switches shall be separately housed on the power supply assembly. Circuit breaker cabinets and meters shall not be installed on the street or walk side of the pole or pedestal.

907-631.03.3--Performance Tests. Delete the second sentence of Subsection 631.03.3 on page 516.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-632-1

CODE: (IS)

DATE: 11/15/2017

SUBJECT: Traffic Signal Cabinet Assemblies

Section 632, Traffic Signal Cabinet Assemblies, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

Delete Section 632 on pages 517 thru 538, and substitute the following.

SECTION 907-632 - TRAFFIC SIGNAL CABINET ASSEMBLIES

907-632.01--Description. This work consists of furnishing, assembling, configuring and installing all component materials and software required to form completed traffic signal controller assemblies, closed loop master controller assemblies and signal system installation of the types specified, in conformity with these specifications, to ensure fully operational traffic signal installations as shown on the plans.

907-632.02--Materials.

907-632.02.1--Cabinet Assembly. Cabinet Assemblies shall meet the NEMA 3R requirements and be constructed principally of 0.125-inch thick, 5052-H32 aluminum. The aluminum shall have a mill finish per NEMA TS 2 7.7.3. Intermittent welds may be used for construction and any unwelded cabinet seams shall be sealed with clear RTV silicone. All external fasteners shall be stainless steel and no holes will be allowed in top of cabinet.

The door handles shall be stainless steel or cast aluminum. Door hinges shall be of the continuous type with a stainless steel hinge pin. Rivets are not be used to attach the hinge. The main door stop rod shall be constructed using stainless steel. The door stop mechanism shall be adjustable and capable of being securely latched in multiple opened positions including 90 degrees and a maximum of 120 degrees. The brackets attaching the stop rod to the door and cabinet shall be aluminum and welded in place. The main door cylinder lock shall be a #2 key type lock. Two (2) traffic industry standard No. 2 keys shall be provided with each cabinet and shall be made using heavy duty key blanks.

Extruded aluminum channels permanently attached to the right and left cabinet sides shall be provided for attaching adjustable shelving and mounting of other component panels. The cabinet shall have two (2) shelves installed. Both shelves shall be provided with the front edge pre-drilled with 0.25-inch holes located twelve (12) inches apart.

907-632.02.2--Physical Features.

907-632.02.2.1--Pull Out Drawer. A pull out drawer shall be installed and centered under the

bottom shelf. The drawer shall be made of 0.080-inch thick, 5052-H32 aluminum and come out on full extension drawer slides. The pull out drawer shall provide an approximate 16-inch x 14-inch working area and have the ability to bear a constant 25 pound burden. There shall be a compartment for document storage. The lid shall be hinged at the rear, to gain access to the storage area. The drawer will be used to store documents as well as support a notebook computer. The drawer slides shall be of the full extension ball bearing type. Dimensions of the drawer shall be large enough to support a notebook computer and a drawer of sufficient size to hold at least two (2) copies of the cabinet drawings and other related cabinet documentation. The surface of the lid shall have a non-slip surface.

907-632.02.2.2--Cabinet Lighting. Cabinets shall be provided with a minimum of two (2) white light LED modules. One (1) lighting module shall be installed along the front top section of the cabinet and the second lighting module shall be installed underneath the bottom cabinet shelf in such a location as to provide direct lighting of the load bay area of the cabinet but must not interfere with the cabinet drawer operation.

Both LED lighting modules shall be controlled by a NEMA rated, commercial quality, pushbutton door switch. The cabinet lighting shall turn on when the cabinet main door is opened and shall turn off when the main door is closed or an ON/OFF NEMA rated, commercial quality, toggle switch mounted on the inside cabinet door service panel shall be provided to turn both LED lighting modules on or off.

907-632.02.2.3--Police Panel Switches. Police panel switches shall be provided with all controller cabinets. All switches shall be hard wired and labeled as to their function.

NORMAL-FLASH: When this switch is in the FLASH position, all signal indications shall transfer to the flashing mode. AC power shall be removed from the load switches when the signal indications transfer to the flashing mode.

The controller unit shall operate in accordance with appropriate specifications during the flashing mode. When the switch is placed in the NORMAL position, transfer from the flash mode to normal operation shall be made in accordance with uniform code flash requirements.

SIGNAL ON-OFF: AC power shall be removed from the signal heads and the intersection will become dark when this switch is in the OFF position.

MANUAL CONTROL ON-OFF: When this switch is in the ON position, a logic ground shall be applied to the manual control enable input of the controller unit.

INTERVAL ADVANCE INPUT JACK: A manual jack shall be installed on the police panel. The jack shall inter-mate with a 3-circuit, 1/4-inch diameter phone plug. The tip and ring (middle) circuits of the jack shall be connected to the logic ground and the interval advance inputs of the controller unit. When the manual hand cord is plugged into the jack and the pushbutton is pressed, logic ground shall be connected to the interval advance input of the controller unit.

When specified in the contract documents, an interval advance cord shall be provided. The cord

shall have a minimum length of three (3) feet. It shall have a ¼-inch diameter, three circuit plug connected to one end and a manual pushbutton enclosed in a hand-held enclosure at the other end. A complete cycle (push-release) of the manual pushbutton shall terminate the controller unit interval which is active except the vehicular yellow and red clearance intervals. Cycling the push-button during the vehicular yellow or all red clearance intervals shall not terminate the timing of those intervals.

907-632.02.2.4--Service Panel Switches. Service panel switches shall be hard wired and clearly labeled to identify as to their functions. Service panel switches shall be mounted on the service panel located on the inside of the main cabinet door. Alternate switch locations may be described in the plans or contract documents but final switch design and location shall be approved by the Engineer prior to cabinet fabrication.

NORMAL-FLASH: When this switch is in the FLASH position, all signal indications shall transfer to the flashing mode. AC power shall be removed from the load switches when the signal indications transfer to the flashing mode.

The controller unit shall operate in accordance with appropriate specifications during the flashing mode. When the switch is placed in the NORMAL position transfer from the flash mode to normal operation shall be made in accordance with uniform code flash requirements.

CONTROLLER ON-OFF: When this switch is in the OFF position, AC power shall be removed from the controller. When this switch is returned to the ON position, the controller unit shall perform normal start up functions and resume normal operation in accordance with the applicable specification.

STOP TIME-RUN-NORMAL: A 3-position manual switch shall be provided which places the controller into Stop Time mode manually or through remote input.

VEHICLE DETECTORS: A 3-position switch shall be provided for each vehicle and pedestrian detector circuit. All switches shall be located on a panel mounted on the inside of the main cabinet door. The switch panel shall be labeled CALL SWITCH. Labeling of phase number and intended function (vehicles or pedestrian calls) shall be provided for each switch.

The vehicle detector switch functions are defined as follows:

Locked Call	Call is continually placed into the controller unit.
Off (center)	Vehicle detector is connected to the controller unit vehicle detector input, i.e. normal detector operation.
Momentary Call	Call is continuous as long as the switch is manually held in this position.

907-632.02.2.5--Police and Service Panel Locations. The police and service panels shall be constructed of 5052-H32 0.125-inch thick aluminum.

The police panel shall be located behind the police door which is enclosed within the main door.

The police door shall be hinged and provided with a neoprene gasket seal. Access to any portion or equipment contained behind the main cabinet door shall not be accessible through any part of the police panel. The police panel shall be of appropriate dimensions to accommodate all switch or devices described within this specification, the plans or contract document. The police door shall be provided with a treasury #2 key type lock and two (2) keys for the police door lock shall be provided with each cabinet.

The service panel shall be mounted on the inside portion of the main cabinet door, adjacent to the back side of the police panel or on the left hand side of the cabinet.

907-632.02.2.6--Cabinet Ventilation. Cabinets shall be vented to allow dissipation of the heat generated by the equipment contained within. All cabinets shall have a thermostatically controlled exhaust fan located at the top of the cabinet that is capable of 100 cubic feet per minute air displacement. The thermostat shall be mounted on the inside top of the cabinet and shall have a nominal temperature range from 80°F to 170°F.

The intake vent shall be louvered or equivalent design to prevent rain infiltration. The vent area will be located along the bottom portion of the cabinet door. A 16-inch x 12-inch x 1-inch disposable pleated air filter shall be provided on the inside portion of the cabinet and shall fully cover the vent area.

907-632.02.2.7--Air Filter Assembly. Air filters shall be one piece and shall be held firmly in place against the cabinet door in order to prevent dust from bypassing the perimeter of the filter and shall fully cover the vent area. Wing nuts or thumbscrews are preferred. Air filter shall be a 16-inch x 12-inch x 1-inch disposable pleated filter.

907-632.02.2.8--Cabinet Sizes.

907-632.02.2.8.1--Type I Cabinet. A Type I cabinet, 51"H x 30"W x 18"D, may be used for both pole and base mounted cabinets that require a maximum eight (8) position load bay. Pole mounted cabinets do not require rear access.

907-632.02.2.8.2--Type II Cabinet. A Type II cabinet, 51"H x 36"W x 18"D, may be used for both pole and base mounted cabinets that require a maximum twelve (12) position load bay. Pole mounted cabinets do not require rear access.

907-632.02.2.8.3--Type III Cabinet. A Type III cabinet, 56"H x 44"W x 27"D, shall be used for base mount installations and shall require a sixteen (16) position load bay and rear access door.

907-632.02.2.8.4--Type IV Cabinet. A Type IV dual chamber cabinet, 56"H x 57"W x 29"D, shall be used for base mount installations and shall require a sixteen (16) position load bay, rear access door, and external generator plug. When called for in the plans, a UPS shall be housed inside this cabinet.

907-632.02.2.8.5--Type V Cabinet. A Type V cabinet, 77"H x 44"W x 27"D, shall be used for base mount installations and shall require a sixteen (16) position load bay and rear access door.

907-632.02.3--Power Distribution Panel. The power panel shall be wired to provide the necessary power to all equipment. It shall be manufactured from 0.125-inch thick, 5052- H32 aluminum. The power panel shall house the following components: Main Breaker, Auxiliary Breakers, and Terminal Block. The panel shall be of such design so as to allow a technician to easily access the main and auxiliary breakers.

A 3-position terminal block with a removable insulated cover accepting up to AWG #4 stranded wire shall be supplied for accepting only the incoming power lines. This terminal block shall be in advance of and supply only the 30-amp main breaker, 10-amp and 5-amp Auxiliary breakers, AC neutral buss and earth ground buss.

907-632.02.3.1--Ground and Neutral Busbars. Cabinet grounding shall meet the requirements set forth in Subsection 722.09 for grounding and ground rods. A solid copper ground busbar shall be mounted on the side of the cabinet wall adjacent to the power panel for the connection of chassis ground wires. If more than one (1) ground busbar is used in a cabinet, a minimum of an AWG #6 copper wire shall be used to bond them.

The copper ground busbar shall have a minimum of thirteen (13) connector points, each capable of securing at least one (1) AWG #6 conductor.

A solid copper neutral busbar shall be mounted on the side of the cabinet wall adjacent to the power panel for the connection of AC neutral wires.

The copper neutral busbar shall have a minimum of thirteen (13) connector points, each capable of securing at least one (1) AWG #6 conductor.

907-632.02.3.2--Terminal Strips. Conductors shall be terminated on terminal strips with insulated terminal lugs. When two (2) or more conductors are terminated on field wiring terminal strip screws, a terminal ring lug shall be used for termination of those conductors. The voltage and current rating of terminal strips shall be greater than the voltage and current rating of the wire which is terminated on the terminal strip.

907-632.02.3.3--Cabinet Receptacles. A 3-wire 115 Volt AC (15A) Ground Fault Circuit Interrupt (GFCI) duplex receptacle shall be provided in the cabinet for maintenance use. It shall be securely mounted near the bottom right side of the cabinet and easily accessible.

Two (2) 3-wire 115 Volt AC (15A) non-GFCI protected outlets shall be installed, one on each side of the cabinet. These two (2) outlets are used for communication or other auxiliary equipment.

907-632.02.3.4--Operating Line Voltage. All equipment shall be designed to operate from a 120 volt, 60 cycle AC supply. Operation shall be satisfactory at voltages from 105 volts to 130 volts. All operating voltages into and out of the controller shall be NEMA level DC voltages except for the controller AC power source (Connector A, Pin p – AC-Control and Pin U – AC Common).

907-632.02.3.5--Circuit Breakers. Circuit breakers shall meet the requirements set forth in

Subsection 722.07. A 30-amp main breaker, with a minimum of 10,000 amp interrupting capacity, shall be provided for all cabinets to supply power to the controller, MMU, signals, and rack power supply.

Two (2) auxiliary breakers shall be provided. The first breaker, 10-amp, shall supply power to the fan, light, GFCI utility receptacle and two (2) auxiliary standard receptacles. The second breaker, 5-amp, shall be installed to supply power for the Controller Unit and MMU2. The above circuit breakers line side shall be jumpered together and will be fed from an external main circuit. A third 5-amp breaker shall be required if an ITS camera panel is called for in the plans.

907-632.02.3.6--Main Line Arrestors. Surge protection shall be provided that meets the requirements set forth in Subsection 722.12. A main line arrestor shall be provided to reduce the effects of voltage transients on the AC power line. It shall be installed after the circuit breaker. The main line arrestor shall be sufficient to protect all equipment and devices as per the plans and the following minimum specifications.

- Multi-stage Hybrid Design
- Series induction filtering
- Thermally protected Metal Oxide Varistors (TMOV's)
- Operating Voltage: 120 VAC
- Clamping Voltage: 395 VAC
- Operating Current: 15 A
- Peak Surge Current: 50 kA/Mode, 100 kA/Phase
- Operating Frequency: 47-63Hz
- EMI Attenuation: 40 dB Typ
- SPD Technology: TMOV's w/ W-C Filter
- Modes of Protection: L-N, L-G, N-G
- Status Indication: Power On & TMOV's Functional
- Connection Type: 1/4-20 Stainless Steel Stud
- Operating Temperature: -40°F to +185°F

907-632.02.3.7--Solid State Main Line Relay (SSR). A normally-open, 75-amp, hybrid SSR shall be provided on the power distribution panel. The relay shall include a LED indicator to verify circuit power.

907-632.02.4--Terminal Facilities Board. The Terminal Facility shall be a hardwired load bay for NEMA TS 2 Type 1 actuated controllers. The load bay shall include either eight (8), twelve (12) or sixteen (16) load switch positions, as specified by the plans, and shall be centered along the back of the cabinet below the bottom shelf.

All wires terminated behind the backboard, as well as any additional panels, shall be soldered. No pressure or solderless connectors shall be used, unless they are soldered to the wire and tab after connection.

907-632.02.4.1--Load Switches and Flashers. Solid State Load Switches, compatible with low

wattage LED signals, shall be provided for the sequence called for on the plans. The load switch sockets shall be wired for triple-signal load switches conforming to NEMA TS 1-1994 and NEMA TS 2-2003 requirements.

The flasher socket shall be wired for and provided with a Type 3, two (2) circuit Solid State Flasher conforming to NEMA TS 1-1994 and NEMA TS 2-2003 requirements. It shall be possible to flash either the amber or red indication on any load switch outputs. It shall be possible to easily change the flash indication from the front side of the panel using readily available tools such as a screwdriver. A nominal flash rate of 50 to 60 FPM shall be provided. Flash rate shall be stable when used with generators or inverters.

Support(s) shall be provided to support the Flasher and Load Switches at some point approximately half of the total length from the panel surface. Sufficient area beneath the Load Switch or Flasher shall be clear in order to allow for free flow of air across the Load Switches or Flasher. Load Switches and Flashers must be provided with LED indicator lights on the side facing the cabinet door.

907-632.02.4.2--Flash Transfer Relay. All flash transfer relays, as a minimum, shall meet NEMA TS 1 requirements. The number of relays that shall be supplied with each cabinet shall accommodate the number of signal phases as indicated in the project plans. The coil of the flash transfer relay must be de-energized for flash operation.

907-632.02.5--Cabinet Wiring. Controller cabinets shall be wired in accordance with the signal phasing plans. If phases are indicated as omitted for future use, or if phases are not shown to be used in the plans, the cabinet shall be wired for use of the phases shown as future or unused. Load Switches shall not be provided for future or unused phases.

Wiring in the cabinets shall conform to the requirements of the National Electrical Code (NEC) and all of these specifications. All conductors in the cabinet shall be stranded copper. All wiring shall be laced. All wiring shall be in accordance as specified by Section 636 and Subsection 722.03 for Electric Cable and IMSA Specification 19 and/or 20 for Signal Wiring.

Connector harnesses for controller, conflict monitor, vehicle detectors, and accessory equipment (including NEMA defined Card Rack with power supply and pre-wired optical detection slots) shall be provided and wired into the cabinet circuitry. Connecting cables for controller and conflict monitor harnesses shall be sleeved in a braided mesh. All wires shall be securely terminated on terminal strips. The lay of the interconnect cable between the components must be such that when the door is closed, it does not press against the cables or force the cables against the various components inside the cabinets.

All communication wiring shall be bundled and routed independently of all other wiring. All live conductors shall be covered with suitable insulating material. All equipment grounds shall run directly and independently to the grounding bus.

All wires shall be cut and terminated as close as possible to the proper length before assembly. Consideration of equipment location adjustments must be made when determining appropriate

wire lengths. Excessive lengths of wire or cable shall not be allowed. All line voltage conductors used in controller cabinet shall conform to the following color code:

AC Neutral: White
AC Hot: Black
Safety Ground: Green

907-632.02.5.1--Signal Terminal Arrestor Grounding Bar. A field terminal arrestor grounding bar shall be provided along the back portion of the cabinet for the installation of signal arrestors. This bar shall be attached using an AWG #10 stranded copper to the earth ground circuitry.

907-632.02.5.2--Signal Terminal Arrestors. The field terminal arrestor shall be a three (3) circuit protective device intended for use on traffic control load relay outputs. The arrestor shall be furnished with three (3) leads and a grounding stud which will be used to attach the arrestor to the grounding bar. The field terminal arrestor shall meet the following minimum specifications:

- Operating Voltage: 120 VAC
- Clamping Voltage: 475 VAC
- Peak Surge Current: 10 kA
- Operating Frequency: 47 – 63 Hz
- SPD Technology: MOV's
- Connection Type: Wire Leads
- Lead Wire: 14 AWG 12" Length
- Ground Stud: 10 x 32 5/8" Length
- Operating Temperature: -40°F to +185°F

907-632.02.6--Accessory Components.

907-632.02.6.1--Traffic Actuated Controller Unit. The fully actuated controller unit shall, at a minimum, meet the requirements of both NEMA TS 1-1989 and NEMA TS 2-2003 requirements for actuated controller units. The controller shall be of the TS 2 Type 2 configuration. The controller shall be provided with the multiple communication interface devices or properties as defined below.

- 10 Base-T Ethernet with front panel RJ-45 connector
- IEEE defined MAC address
- EIA-232 port
- External Serial Fiber options for both single and multi-mode (optional as per plans)
- External FSK 1200 bps modem (optional as per plans)
- D connector with 37 pin configuration for TS 1 compatibility
- USB port for signal controller database upload/download to the controller flash
- Controller
- ECOMM Compatible

The controller unit must have an alphanumeric backlit LCD display with a minimum of sixteen

(16) lines at 40 characters per line. The controller must be air-cooled with sufficient ventilation openings and capable of operating between -30°F and 165°F. The controller unit must be provided with a time-of-day clock, automatic daylight savings time adjustment and a power supply for maintaining SRAM during a power outage. The controller unit shall be capable of being used in a Closed-Loop System and must be capable of operating in the role of master controller in a Closed Loop System. The controller unit firmware shall be fully compatible with the Department's existing Traffic Signal Management Software. The Contractor shall ensure all controller firmware versions are compatible with the existing Traffic Signal Management Software that the Regional Department staff currently utilizes prior to submitting the controller for approval. The Contractor shall notify the Department if any special controller configuration or firmware is needed prior to submitting the controller for approval based on project requirements.

Where Flashing Yellow Arrow (FYA) operations are being used, all traffic signal controller firmware shall be capable of delaying the onset of the flashing yellow arrow.

All operator entered data shall be stored and backed up on to a flash memory device provided with the controller unit at no cost. This flash memory device shall require no battery to support value storage. No internal components of circuitry shall require battery support. The database shall be able to be backed up to a USB drive via the USB drive on the controller.

Traffic Actuated Controllers shall be of the Type shown on the plans. Type 1 Controllers shall have a Linux based processor and a minimum of one (1) USB port. Type 2 Controllers shall have the same features as Type 1 Controllers with the addition of an ATC backplane.

Type 3 Controllers shall have all features of the Type 2 Controller with the addition of the ATC module. All three (3) types of actuated controllers shall have Master controller capability, and if required shall be designated with 'M' in the plans.

907-632.02.6.2--Closed Loop Master Controller Unit. When called for in the plans, this work also consists of furnishing, installing and configuring the equipment, software and accessories necessary to connect one (1) traffic Closed-Loop Master Controller to its corresponding central or portable PC-based Traffic Computer Facility Control System via a communications connection. The communications or network connection device will be either existing or provided by the Contractor.

907-632.02.6.2.1--General. The Master shall monitor intersections in the system, display status and operational state and provide traffic flow data from intersection vehicle detectors. The Master shall include all communications equipment and software necessary to provide reporting to a remote terminal as well as upload/download of all local intersection data and provide timing synchronization. Communications to local controllers from the Master and from the Master to the central-office computer facility shall be by FSK, 900 MHz Radio, Broadband Radio, Serial Fiber, Ethernet, Fiber, Cell Modem or Leased Line, as indicated in the plans. The Master shall be able to run on the same controller simultaneously operating the intersection, with the local signal control software, on any given controller unit.

907-632.02.6.2.2--System Configuration. The system architecture shall be designed to minimize

the effect of equipment failures on system operation and performance. The system consists of four (4) principal elements:

- Local System Intersection Controllers
- Communication (Telemetry Links)
- On-Street Master(s)
- Central-Office Computer Software

907-632.02.6.2.3--Local System Intersection Controller. The local system intersection controllers connected to the Master controller unit shall be capable of controlling a fully actuated two (2) to sixteen (16) phase intersection and shall meet or exceed NEMA TS 1-1989 and TS 2-2003 standards for fully actuated traffic control units. The local controller shall have internal communication capability with direct access to the data memory. The local system controller shall be capable of processing controller and detector data and provide all necessary intersection control functions. The local system intersection controller shall meet the requirements of the Traffic Actuated Controller Unit.

907-632.02.6.2.4--Communications (Telemetry) Links. The communications links for the "Closed-Loop" System shall perform the following functions:

- Provide the medium (radio/fiber/hardwire/etc.) for two-way communications between the On-Street Master and the local intersection controllers.
- Provide the medium for two-way communication between the On-Street Master and the central-office computer facility.
- Error checking shall be included in both mediums to assure transmission and reception of valid data.

907-632.02.6.2.5--On-Street Master. The On-Street Master may be located at an intersection and connected via the communication network to at least 32 local intersection controllers. The Master shall be capable of implementing Traffic Responsive Control, Time Base Control, Manual Control or Remote Control modes of operation.

Analysis of sampling sensor data from at least 64 system detectors and corresponding selection of the best Traffic Responsive timing pattern shall be provided by the On-Street Master during the Traffic Responsive mode of operation.

Automatic and continuous monitoring of system activity shall be provided by the On-Street Master to include both Master and intersection alarm conditions.

System parameter entry shall be provided via the On-Street Master including all Master and local intersection assignment and group parameters. Master parameters shall include:

- System coordination setup and pattern data entry by group
- System time base event scheduler
- System traffic responsive computational and pattern selection setup by group
- Intersection system group and detector assignments

The On-Street Master shall provide comprehensive system report generation including, as a minimum: system, intersection, detector and failure status and history reports in addition to system performance reporting.

A RS-232C interface shall be provided on the On-Street Master to allow for printing of reports or for interconnecting to a remote central site.

To enhance overall system operation and increase system management flexibility, the On- Street Master shall also support two-way dial-up communications to a central office computer for control, monitoring, data collection and for timing pattern updating purposes, all from a remote central office location. Continuous, seven (7) days/week - 24 hours/day, system monitoring shall be enhanced by the On-Street Master's capability to automatically dial-up the central office computer upon detection of user defined critical alarm conditions.

907-632.02.6.2.6--System Functional Requirements.

907-632.02.6.2.6.1--Operator Interface. In order to provide ease in programming and operation, the system shall provide a simplified user-friendly menu format at each local, master and central office facility. No special programming skills shall be required for the user to fully access and operate this control and monitoring system at any level.

All programming, both of the local intersection controllers and the On-Street Master(s) shall be via a front panel keyboard and display, driven by English Language menus. All data change entries will be automatically verified against established ranges prior to acceptance to prevent programming data errors. Data access shall be controlled by user- definable access controls.

907-632.02.6.2.6.2--System Traffic Control. The system shall have the capability of controlling a minimum of sixteen (16) vehicle phases and eight (8) pedestrian phases. The system shall have the capability of implementing a minimum of four (4) timing rings, fifteen (15) alternate sequences, and sixteen (16) offsets.

The system shall provide the capability of selecting any of the following operational modes on a group basis:

- Traffic Responsive
- Time Base (Time-of-Day/Day-of-Week)
- Remote (External Command)
- Manual (Operator Entry)

The system shall be capable of implementing system FLASH and system FREE operation. The system shall have the capability to command, on/off based on time, up to eight (8) independent special functions.

907-632.02.6.2.6.3--Detectors. The system shall have the capability of accepting and processing data from at least 632 system detectors for Traffic Responsive program selection.

907-632.02.6.2.6.4--Pattern Selection. In addition to providing Manual and Remote program selection capability, the Master shall provide for Traffic Responsive and Time Base modes of operation for timing pattern selection.

907-632.02.6.2.6.4.1--Traffic Responsive Mode. Traffic plan selection in the Traffic Responsive mode shall be user-enabled and supplied with the controller, per the plans and specifications. The pattern selection shall be based on sampling detector volume and occupancy analysis by the On-Street Master.

907-632.02.6.2.6.4.2--Time Base Mode. The system shall provide the capability of implementing time-of-day, day-of-week and week-of-year control for each of the two (2) groups using an internal time clock referenced to the 60-Hz AC power line frequency for its time base. The Time Base mode shall contain automatic adjustment for leap year and daylight savings time changes.

The system Time Base mode shall provide, as a minimum, 100 events each capable of requesting any of the 48 traffic control patterns along with Traffic Responsive override enable or auxiliary events consisting of enable/disable any of up to four (4) system-wide special functions and setting sample and log interval time periods.

907-632.02.6.2.6.5--System Control Priority. The system coordination control (program-in-effect) for each group shall be selected on a priority basis. The priority from highest to lowest shall be as follows:

- Manual Control Entry
- External Control (Remote Command)
- Time Base Control (Time-of-Day/Day-of-Week) (Traffic Responsive control will prevail whenever Traffic Responsive Override Enable is active and the selected cycle length is greater than that being commanded by Time Base)
- Traffic Responsive Control

907-632.02.6.2.6.6--Measures of Effectiveness. The system shall have the capability to report selected Measures of Effectiveness (MOE's) on an intersection basis. MOE calculations shall be made on all phases by the local system intersection controller and as a minimum shall include measures such as: volume, number of stops, delays and green utilization. These measures shall be calculated on the basis of the active timing plan. Alternate ways of reporting MOE'S may be approved on a case-by-case review.

907-632.02.6.2.6.7--Uploading and Downloading. The system shall provide, for any selected local system intersection controller, the capability of uploading and downloading any or all, new or modified local intersection parameters from the central-office computer and the Department Central Traffic Signal Management Software, and shall include, as a minimum, all: Phase Timing and Unit Data; Coordination Data, Time Base Data; Preemption Data, System Communication Parameters, System Traffic Responsive Data, and any other System Data residing at the intersection such as Detector Diagnostic Values, Report Parameters and Speed Parameters.

During either uploading or downloading operations, normal traffic control operations shall not be suspended. All data shall be continually accessible and may be displayed at the On- Street Master or the central office computer.

907-632.02.6.2.6.8--System Monitoring and Diagnostics. The system shall automatically and continually monitor system activity and log/report occurrences of Master and intersection alarm conditions. All alarm condition events shall include at the intersection, (Master and central-office computer) an alpha-numeric description of the event as well as the time and date of occurrence.

As a minimum, monitored master alarms conditions shall include:

- Insufficient or Improper Data
- Failed Computational Channels
- Failed System Detectors
- Intersection Communication Failure
- Failed Controllers
- Minimum of six (6) special user defined alarms for user application flexibility
- Monitored intersection alarms conditions shall include as a minimum:
 - Cycle Faults and Failures
 - Coordination Failures
 - Voltage Monitor
 - Conflict, Local and Remote Flash Conditions
 - Preempt
 - Local Free
- Minimum of six (6) special user defined alarms for additional user flexibility.

When the Master detects a critical alarm condition, as defined by the user, it shall automatically dial-up the central office computer and report the condition. On a BUSY or NO ANSWER, the system may be programmed, at user option, to alert a secondary computer.

The system shall also automatically and continually monitor, verify and attempt to correct Sync Pulse, Time Base Clock and Pattern-In-Effect. The system shall provide capabilities to perform diagnostics on system and local detectors, communications and intersection operations. When a fault has been detected, an indication shall be provided. It shall be possible to isolate the fault to the failed unit from controls and indicators available on the Master unit. Auxiliary equipment such as a data terminal or CRT shall not be required to identify the failure.

907-632.02.6.2.6.9--Real Time Display. The Master shall provide for any selected local system intersection controller, real-time status information on its front panel. Real-time intersection status information shall include simultaneous display of: vehicle and pedestrian signal and detector status by phase, overlap signal status and cars waiting count by phase. Real-time controller status information shall include simultaneous display of: two (2) Ring Active timers, On/Next, Call/Recall and Hold/Omit Status by phase, Coordination, Preempt and Stop Time Status.

907-632.02.6.2.6.10--System Management. The system, without hardware changes but with its

ability to directly modify Master and intersection parameters, shall provide the user system configuration and operational controls of the following functions: add/delete controllers and system detectors, enable Traffic Responsive mode, assign intersections to groups, assign system detectors to computational channels and channels to pattern select routines, and assign special and/or standard detectors as system detectors for use with computational channels or to track activity.

907-632.02.6.2.6.11--System Logging and Reports. The system shall automatically and continually process system data and log/report on occurrence of changes in intersection status, system detector status, communications status, controller status and local detector status in addition to system program changes, Traffic Responsive computations, measures of effectiveness and performance.

907-632.02.6.2.6.12--Security. The On-Street Master shall provide for a user-specified security code entry before any data may be altered. In order to view any parameter, security code entry shall not be required. Security access shall be automatically rescinded approximately ten (10) minutes after either access was gained or the last parameter change was entered. The Master and local controller shall have the ability via keyboard to disable security code requirements, allowing for perpetual access without requiring hardware changes.

907-632.02.6.2.7--Design Characteristics. The On-Street Master shall be designed to operate in either an office or field environment and shall be suitably housed in a separate enclosure or in a local intersection cabinet. The Master shall be designed to meet the following electrical and mechanical requirements:

907-632.02.6.2.7.1--Programming and Security. Operator programmable data entry shall be accomplished through panel keyboard(s). The Master shall prevent the alteration of keyboard set variables prior to the user having entered a specific access code through the keyboard. The Master shall maintain user-programmable variables in non-volatile memory with a battery-backed RAM to assure continued efficient system operation.

907-632.02.6.2.7.2--Test and Repair. To enhance maintenance and trouble-shooting activities, On-Street Masters shall include resident diagnostics as a standard. No extender- cards, special tools or PROMs shall be necessary to fully maintain these components. The Master unit design shall ensure that all printed circuit boards be readily accessible for maintenance testing purposes. All fuses, connectors and controls shall be accessible from the front of the Master unit.

907-632.02.6.2.8--Traffic Signal System Software. All Traffic Signal System Software shall be compatible with the latest version of the Department's existing Master and local controllers and existing Traffic Signal Management Software for the Department region.

907-632.02.6.2.8.1--Traffic Signal Closed Loop Software. The Traffic Signal Closed-Loop Software shall provide the ability to manage Master and local controller databases including the uploading and downloading of data parameters. The software shall provide status information and provide reporting capabilities for Master and local controller data, alarms and logs.

907-632.02.6.2.8.2--Traffic Signal System Workstation Software. The Traffic Signal System Workstation shall provide the ability to manage Master and local controller databases including the uploading and downloading of data parameters. The software shall provide status information and provide reporting capabilities for Master and local controller data, alarms and logs.

The Traffic Signal System Workstation Software shall also be capable of operating as a network-connected user workstation to existing centralized signal systems and their associated databases.

When disconnected from the centralized signal system, the software shall be capable of running as a standalone system similar to the Closed-Loop Software. Under this mode, the software shall provide management, report and status functions for Master and local controllers. Under Standalone Mode of operation the software shall allow for its own database(s) for data management without the need for connecting to a centralized signal system database.

907-632.02.6.2.9--Services. Technical services shall be provided, as required, to assist in installation and initial setup of the Closed-Loop Master System and its sub-components. Technical assistance with database migration and/or setup, as well as the development of graphics (such as master maps and local intersection depictions) and the assignment of associated attributes such as detectors, phasing, signals, etc., shall be provided as required. Additionally, training shall be provided on a basic or advanced target user level, as required.

907-632.02.6.3--Malfunction Management Unit (MMU2). The Malfunction Management Unit (MMU2) shall be a shelf-mountable, sixteen (16) channel, solid-state, IP addressable MMU. The MMU2 shall accomplish the detection of, and response to, improper and conflicting signals and improper operating voltages in a traffic signal controller assembly, including support for four (4) section Flashing Yellow Arrow (FYA) left turn displays. The MMU2 shall be capable of running a minimum of twelve (12) different modes of FYA operation.

The MMU2 shall meet or exceed Section 4 requirements of the NEMA Standards Publication No. TS 2-2003 including NEMA TS 2 Amendment #4-2012 and provide downward compatibility to NEMA Standards Publication No. TS 1-1989: Type 12 Operation, in addition to those specifications set forth in this document.

The MMU2 shall include a graphics based Liquid Crystal Display (LCD) to view the current monitor status and navigate the unit's menus. An RJ-45 Ethernet Port shall be provided for communications.

A built-in Diagnostic Wizard shall be provided that displays detailed diagnostic information regarding the fault being analyzed. This mode shall provide a concise view of the signal states involved in the fault, pinpoint faulty signal inputs and provide guidance on how the technician should isolate the cause of the malfunction. The Diagnostic Wizard shall be automatically invoked when the MMU2 is in the fault mode and the HELP button is pressed. It shall also be automatically invoked when the MMU2 is in the Previous Fail (PF) event log display and the HELP button is pressed.

A built-in Setup Mode shall be provided that automatically configures the Dual Indication Enable, Field Check Enable, Red Fail Enable and Minimum Yellow Plus Red Clearance Enable parameters from user input consisting only of channel assignment and class (vehicle, ped, pp-turn, FYA, etc.) responses.

The MMU2 shall be capable of operating in the Type 12 mode with SDLC communications enabled on Port 1. The Channel Status display shall operate in the Type 12 configuration and provide the Field Check function for up to four (4) Pedestrian Walk inputs.

In the interest of reliability and repair ability, printed circuit board mounted MS connectors shall not be acceptable. Internal MS harness wire shall be a minimum of nineteen (19) strand AWG 22 wire.

907-632.02.6.4--NEMA defined Card Rack and Power Supply. A minimum of one (1) NEMA compliant detector card rack with five (5) slot positions (first slot for power supply and four (4) available slots) shall be provided in each cabinet. The detector rack shall be installed on the bottom shelf of the cabinet. The power supply for the NEMA defined card slots shall be provided as a 175W minimum with four (4) independent regulated channels of 24 VDC each rated at 0.75 amps over the full NEMA operating temperature range of -30°F to +165°F. The output should be regulated to 24 VDC +/- 15%. Each of the four (4) outputs shall be independently fused, each with a separate LED for displaying output and fuse status for each of the four (4) outputs. Each of the four (4) outputs shall be protected against voltage transients by a minimum 1500 watt suppressor. All card racks shall be wired for the type detection shown in the plan sheets.

Card Guides shall be provided on the top and bottom of the card rack for each connector position.

907-632.02.6.5--In-Cabinet Network.

907-632.02.6.5.1--Communications Arrestor. The Controller Cabinet network shall consist of an SDLC connection between the Controller Unit and MMU2. Surge suppression for this network shall meet the requirements set forth in Subsection 722.12 and the following minimum requirements below:

- Operating Voltage: 5 VDC
- Clamping Voltage: 8 VDC
- Operating Current: 1.5 A
- Peak Surge Current: 47 A (10x1000 μ s)
- Frequency Range: 0 to 20 MHz
- Insertion Loss: < 0.1 dB at 20 MHz
- SPD Technology: SAD
- Connection Type: DB-15
- Operating Temperature: -40°F to +185°F

907-632.02.6.6--System Communications.

907-632.02.6.6.1--Traffic Signal Ethernet Switch. When specified in the plans or contract

documents, a traffic signal Ethernet switch shall be installed in the cabinet assembly. It shall meet the requirements for the type specified in Section 907-663. Ethernet patch cables of sufficient length shall be provided for all supplied Ethernet ready cabinet components. The switch and all components shall be connected and configured.

907-632.02.6.6.2--Fiber Optic Patch Panel. When specified in the plans or contract documents, fiber optic attenuator patch cords shall be installed in the cabinet assembly as specified in Section 907-661.

907-632.02.6.6.3--Wireless Communications. When specified in the plans or contract documents, wireless communication components shall be installed in the cabinet assembly and shall be as specified in Section 907-662.

907-632.02.6.6.4--Serial Port Server or Terminal Server. When specified in the plans or contract documents, serial port servers shall be installed in the cabinet assembly and shall be as specified in Subsection 907-663.02.2.

907-632.02.6.6.5--GPS Clock. This work includes furnishing a Global Positioning System (GPS) Synchronization clock that can be used to sync the internal clocks in traffic signal controllers when coordination is desired, but communication is not necessary. The GPS Clock System shall provide GPS based time and date synchronization to provide coordination of traffic controllers to a common time base. The system shall process GPS Time data using a tamper/vandal resistant GPS antenna and correct for Time Zone, Daylight Savings Time, Leap Years, and GPS Leap Seconds. The processed time information shall be sent to the traffic controller in the native format for the respective controller. A contact closure synchronization pulse with variable pulse width shall be available for a once per day update. If the GPS antenna is blocked for up to one (1) hour prior to scheduled time of synchronization, the system shall synchronize the traffic controllers with less than 0.4 seconds variance from the accuracy provided under normal operation with GPS satellites in view.

- The GPS Clock shall also meet the following minimum specifications:
- Input Voltage: 9-24 VDC
- Current Draw: 150 mA (max) at 12 VDC: 125 mA (max) at 24 VDC
- Contact Closure: 750 mA at 30 VDC
- Temperature Rating: -29.4°F to +167°F

GPS unit shall be mounted to the traffic signal controller cabinet as per the manufacturer's recommendation. Any and all holes created in the cabinet for the purpose of mounting the GPS unit shall be sealed to the satisfaction of the Engineer at no direct pay.

907-632.02.6.6.6--Power-Over-Ethernet Arrestor. Surge suppression that meets the requirements set forth in Subsection 722.12 shall be provided. In addition, the following minimum specifications shall be supplied for loads that require Power-Over-Ethernet with isolated shielded or non-shielded cable:

- Operating Voltage: 48 VDC
- Clamping Voltage: 68 VDC
- Operating Current: 0.75 A per Pin Continuous
- Peak Surge Current: 10 kA
- Insertion Loss: < 0.1 dB
- SPD Technology: GDT, SAD, with series PTC
- Modes of Protection: All Lines (1-8) Protected (L-L) and (L-G): Signal High- Low; High-Ground; Low-Ground
- Transmission Speeds: 10BaseT; 100BaseT; 1000BaseT
- Connection Type: RJ-45
- Operating Temperature: -40°F to +185°F

907-632.02.7--Detector Panel. A vehicle detector harness shall be provided to connect the detector panel to the card rack. The detector panel shall accept the connection of sixteen (16) field loop inputs and four (4) pedestrian detector inputs.

907-632.02.7.1--Detector Input Arrestors. Field Loop and Pedestrian input arrestors shall meet the requirements set forth in Subsection 722.12. Field loop arrestors shall have differential and common mode protection and be provided with the following minimum specifications:

- Operating Voltage: 75 VDC
- Clamping Voltage: 130 VDC
- Peak Surge Current: 250 A
- SPD Technology: Silicon Break-Over
- Operating Temperature: -40°F to +185°F

Pedestrian input arrestors shall be a four (4) circuit device provided with the following minimum specifications:

- Operating Voltage: 30 VDC
- Clamping Voltage: 36 VDC
- Operating Current: 0.15 A
- Peak Surge Current: 10 kA (8 x 20 μ s)
- Frequency Range: 0 to 20 MHz
- Insertion Loss: < 0.1 dB at 20 MHz
- SPD Technology: GDT, SAD, with Series PTC
- Connection Type: Terminal Block with compression lugs; Terminals accept up to 10 AWG
- Operating Temperature: -40°F to +185°F

907-632.02.8--System Detectors. The controller shall have the ability to receive input data from up to eight (8) special system detectors in addition to the normal actuated controller unit phase detectors. The user shall have the option to assign any of the phase detectors as "system detectors".

907-632.02.9--Preemption. The cabinet shall be completely wired to accept and service calls from preemption phase selector modules, associated optical detector units and GPS units. Optical detector units and GPS unit cabinet components shall be as specified in Section 639. Provision for two (2) standard card modules shall be accommodated in a separate card rack for preemption. The preemption card rack shall provide a minimum of eight (8) channels.

Provisions shall also be made in the cabinet to accommodate Railroad Preemption when specified in the plans or contract documents. Railroad Preemption shall meet the requirements set forth in Section 639. While it is not necessary that a Railroad Preemption interface board be provided with the cabinet, the cabinet and back panel shall be designed so that a Railroad Preemption interface panel that uses a relay to isolate the track switch from the controller cabinet circuitry can be installed. Preempt 1 and 2, in the case of gate down preemption, shall be reserved for Railroad Preemptions; all subsequent preemptions shall be reserved for Emergency Vehicle, Fire Station, or Police Preemption.

907-632.02.10--Uninterruptable Power Supply. When specified in the plans or contract documents an Uninterruptable Power Supply (UPS) System shall be installed in the cabinet assembly. The UPS shall be installed in the cabinet and meet the requirements set forth in Section 633.

907-632.02.11--Power Service Pedestal. A Power Service Pedestal shall be provided as described in Section 631.03.2.

907-632.03--Construction Requirements.

907-632.03.1--Mounting. Traffic Signal Cabinet Assemblies shall be wall or pole mounted, base mounted on a concrete cabinet pad, or base mounted using a composite enclosure as specified below and as shown in the plans.

Power Service Pedestal shall be base mounted on a concrete cabinet pad or on a composite enclosure as specified below and as shown in the plans.

907-632.03.1.1--Wall or Pole Mounted. Wall or pole mount hardware shall be provided for mounting cabinets in specific installations as indicated in the design plans. Wall or pole mounted cabinets shall be manufactured with rigid tabs, rigid brackets or other acceptable configuration for attachment of the cabinet to the wall or pole support. Rigid attachment devices must allow for field alignment of cabinet to the wall or pole support.

907-632.03.1.2--Concrete Cabinet Pad. Concrete foundations shall be constructed of Class B concrete in specific installations as indicated in the design plans.

Cabinets for installation on a concrete base shall be manufactured with rigid tabs, rigid brackets or other acceptable configuration for attachment of the cabinet bottom to its flat support structure. Rigid attachment devices must allow for field alignment of cabinet with the support base. Concrete base construction details shall be provided in the design plan drawings.

907-632.03.1.3--Composite Enclosure. Cabinets for installation on a composite enclosure base shall be manufactured with rigid tabs, rigid brackets or other acceptable configuration for attachment of the cabinet bottom to its' flat support structure. Rigid attachment devices must allow for field alignment of cabinet with the composite enclosure. Composite enclosure attachment details shall be provided as shown in the plans.

907-632.03.2--Documentation. Documentation packages shall be delivered for each unit at the same time as the equipment to which it pertains.

A minimum of two (2) sets of complete schematic drawings and equipment documentation shall be supplied with each cabinet. The first copy shall be placed in a clear re-sealable print pouch of sufficient size to accommodate one (1) complete set of folded cabinet prints and placed in the pull-out drawer of the cabinet and the second copy shall be provided to the Department. Comprehensive controller data shall be included as part of the cabinet documentation package and shall be placed in the cabinet drawer pouch. Digital copies of all cabinet documentation shall be provided to the Department before final acceptance.

The documentation packages shall contain a schematic wiring diagram of the controller cabinet assembly and all auxiliary equipment. The schematic wiring diagram, including a symbols legend, shall show in detail all integrated circuits, transistors, resistors, capacitors, inductors as well as switches and indicators. All parts shown shall be easily identified on both in the cabinet and on the schematic diagram. Model numbers shall be used on schematic diagram when available.

A complete physical description of the signal cabinet assembly shall be provided to include at least the physical dimensions of the unit, weight, temperature ratings, voltage requirements, power requirements, material of construction, and complete performance specifications.

A complete set of operation guides, user manuals, and performance specifications shall be provided.

Detailed programming instructions, preventative maintenance requirements, and troubleshooting procedures shall also be provided for the controllers. These documents shall fully cover all programming procedures and programmable options capable of being made to the controllers and associated traffic control equipment. Instructions for modifications within the range of the capabilities of the unit such as changes in phases or sequences and programming matrix boards shall be included.

An intersection diagram shall be provided on the cabinet door showing geometric configuration, lane use assignments, controller cabinet and signal pole locations, vehicle and pedestrian signal head locations, vehicle and pedestrian detector zone locations, ring-barrier phasing diagram, and detector channel assignments. The intersection diagram shall be labeled with, at a minimum, a North Arrow, main street name(s), side street name(s), signal pole numbers, vehicle and pedestrian head type(s), detector zone designations, volume density and phase recall requirements, flash sequence. All field wires within the cabinet shall be labeled to coincide with those shown on the intersection diagram.

907-632.04--Method of Measurement. Traffic Signal Cabinet Assembly will be measured as a unit per each.

Remove and Replace Existing Traffic Signal Cabinet Assembly will be measured as unit per each.

Modify Existing Traffic Signal Cabinet will be measured as a unit per each.

Solid State Traffic Actuated Controller, of the type specified in the project plans, will be measured as a unit per each.

Signal Software License, of the type specified in the project plans, will be measured as a unit per each.

Malfunction Management Unit, of the type specified in the project plans, will be measured as a unit per each.

Card Rack, of the type specified in the project plans, will be measured as a unit per each.

GPS Clock, as specified in the project plans, will be measured as a unit per each.

Power Service Pedestal, as specified in the project plans, will be measured as a unit per each.

All pay items shall be inclusive of all materials, work, system integration, testing and incidentals necessary for a complete and operable unit in place and accepted. All removal, turn on, and acceptance of equipment, devices, traffic signals, and traffic signal assemblies shall follow Section 631 - Traffic Signal Systems-General prior to payment.

907-632.05--Basis of Payment. Traffic Signal Cabinet Assembly, measured as prescribed above, will be paid for at the contract unit price per each for each type(s) specified in the contract, which price shall be full compensation for furnishing, installing, configuring, wiring, testing, and mounting foundation construction, cabinets, relays, terminals, circuit breakers, modules, coordination and time base control programs, connectors wiring, overlap equipment, load switches, power cables, power supplies, controller mechanism and housing, MMU2, mounting material, all other materials, and all equipment, labor, tools, and incidentals necessary to complete the work.

Remove and Replace Existing Traffic Signal Cabinet Assembly, measured as prescribed above, will be paid for at the contract unit price per each for each type(s) specified in the contract, which price shall be full compensation for furnishing, installing, configuring, wiring, testing, cabinets, relays, terminals, circuit breakers, modules, coordination and time base control programs, connectors wiring, overlap equipment, load switches, power cables, power supplies, controller mechanism and housing, MMU2, mounting material, all other materials, removal, disposal, transfer, storage, and/or resetting of components that are existing, all other components included in the traffic signal cabinet, and all equipment, labor, tools, and incidentals necessary to complete the work.

Modify Existing Traffic Signal Cabinet, measured as prescribed above, will be paid for at the

contract unit price per each, which price shall be full compensation for furnishing, installing, configuring, and mounting all components, wiring, and devices; rewiring, reconfiguring, removal, disposal, transfer, storage, and/or resetting of existing components and devices, installing or changing coordination and time base control programs in the traffic signal cabinet assemblies, testing, final cleanup, all equipment, labor, tools, and incidentals necessary to complete the work.

Solid State Traffic Actuated Controller, measured as prescribed above, will be paid for at the contract unit price per each for each type(s) specified in the contract, which price shall be full compensation for all labor, equipment, tools, materials inclusive of the controller mechanism(s) and housing(s), all power cables, power supplies, wiring, factory and manufacturing inspection, attachment hardware, testing, storage, packaging, shipping, warranty, and all work, equipment, and appurtenances, and all incidentals necessary to provide a fully functional traffic controller ready for use. It shall also include all documentation including operations and maintenance manuals and other material necessary to document the operation of the traffic controller.

Signal Software Licenses, measured as prescribed above, will be paid for at the contract unit price per each for each type(s) specified in the contract, which price shall be full compensation for all labor, equipment, tools, materials inclusive of furnishing, installing and configuring the Signal Software, all power cables, power supplies, wiring, factory and manufacturing inspection, testing, storage, packaging, shipping, warranty, appurtenances, and all incidentals necessary to provide fully functional Signal Software ready for use. It shall also include all documentation including operations and maintenance manuals and other material necessary to document the operation of the Signal Software.

Malfunction Management Unit, measured as prescribed above, will be paid for at the contract unit price per each for each type(s) specified in the contract, which price shall be full compensation for all labor, equipment, tools, materials inclusive of furnishing, installing and configuring the Malfunction Management Unit (MMU2), all power cables, power supplies, wiring, attachment hardware, factory and manufacturing inspection, testing, storage, packaging, shipping, warranty, and all work, equipment, and appurtenances, and all incidentals necessary to provide a fully functional Malfunction Management Unit (MMU2) ready for use. It shall also include all documentation including operations and maintenance manuals and other material necessary to document the operation of the Malfunction Management Unit (MMU2).

Card Rack, measured as prescribed above, will be paid for at the contract unit price per each for each type(s) specified in the contract, which price shall be full compensation for all labor, equipment, tools, materials inclusive of furnishing, installing and configuring the Card Rack, all power cables, power supplies, wiring, attachment hardware, factory and manufacturing inspection, testing, storage, packaging, shipping, warranty, and all work, equipment, and appurtenances, and all incidentals necessary to provide a fully functional Card Rack ready for use. It shall also include all documentation including operations and maintenance manuals and other material necessary to document the operation of the Card Rack.

GPS Clock, measured as prescribed above, will be paid for at the contract unit price per each for each type(s) specified in the contract, which price shall be full compensation for all labor, equipment, tools, materials inclusive of furnishing, installing and configuring the Global

Positioning System (GPS) Clock(s), all power cables, power supplies, wiring, attachment hardware, factory and manufacturing inspection, testing, storage, packaging, shipping, warranty, and all incidentals necessary to provide a fully functional GPS Clock ready for use. It shall also include all documentation including operations and maintenance manuals and other material necessary to document the operation of the GPS Clock.

Power Service Pedestal, measured as prescribed above, will be paid for at the contract unit price per each for each type(s) specified in the contract, which price shall be full compensation for furnishing, installing, configuring, wiring, testing, and mounting foundation construction, cabinets, circuit breakers, connectors wiring, mounting material, all other materials, and all equipment, labor, tools, and incidentals necessary to complete the work.

Payment will be made under:

907-632-A: Solid State Traffic Signal Cabinet Assembly, Type __ Cabinet, Type __ Controller	- per each
907-632-B: Remove and Replace Existing Traffic Signal Cabinet Assembly, Type __ Cabinet, Type __ Controller	- per each
907-632-C: Modify Existing Traffic Signal Cabinet Assembly	- per each
907-632-D: Solid State Traffic Actuated Controller, Type ____	- per each
907-632-E: Single-user Workstation Signal Software License	- per each
907-632-F: Single-user Server Signal Software License	- per each
907-632-G: Malfunction Management Unit	- per each
907-632-H: Card Rack, ____ Position	- per each
907-632-I: GPS Clock	- per each
907-632-J: Power Service Pedestal	- per each

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-633-1

CODE: (IS)

DATE: 11/15/2017

SUBJECT: Uninterruptable Power Supply

Section 633, Uninterruptable Power Supply, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-633.02--Materials.

907-633.02.1--Electronics Module. Delete the fourth bullet in Subsection 633.02.1 on page 538, and substitute the following.

- Local and remote communication capabilities.

907-633.02.4--UPS Operation. Delete the fourth subparagraph of Subsection 633.02.4.1 on page 539, and substitute the following.

- 4) The UPS system shall be capable of providing continuous, fully conditioned and regulated sinusoidal (AC) power to selected devices such as signal controllers, modems, communication hubs, National Transportation Communications for ITS Protocol (NTCIP) adapters and video equipment, for a minimum of 8 continuous hours.

907-633.02.4.3--Electric Specifications.

907-633.02.4.3.1--Input Specifications. Change the value of the Input Voltage Range in the Table in Subsection 633.02.4.3.1 on page 540, from “75 VAC to 155 VAC (without drawing energy from batteries)” to “75 VAC to 150 VAC (without drawing energy from batteries).”

Delete Subsection 633.02.4.4 on page 540, and substitute the following.

907-633.02.4.4--Blank.

907-633.03--Construction Requirement. Delete the first sentence of the second paragraph of Subsection 633.03 on page 541, and substitute the following.

Field tests shall be performed with various devices as noted in design plans to verify that each device operates optimally.

907-633.05--Basis of Payment. Delete the pay item listed on page 541, and substitute the following.

907-633-A: Uninterruptable Power Supply

- per each

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-634-3

CODE: (IS)

DATE: 01/08/2020

SUBJECT: Traffic Signal and ITS Equipment Poles

Section 634, Traffic Signal and ITS Equipment Poles, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-634.02--Materials.

907-634.02.1--Poles. Delete the bullets for Type X poles in Subsection 634.02.1 on page 542 and substitute the following.

- Type X -- Aluminum Pole for Detectors

After Type XI poles in Subsection 634.02.1 on page 542, add the following.

- Type XII -- ITS Extension Poles

907-634.02.1.1--Traffic Signal Poles. Delete the first, third, fourth, and fifth bullets in Subsection 634.02.1.1 on pages 542 and 543, and substitute the following.

- Self-supporting straight or upswept mast arm(s), in accordance with Plan details. Where possible, the mast arms shall match the adjacent signal poles in the area unless otherwise stated;
- Tag installed on shaft side opposite the mainline highway and located approximately 48 inches above the top of the Baseplate;
- Minimum nominal size of four (4) inches wide by 26 inches tall reinforced hand-hole with included terminal block(s);
- A ½-inch coarse thread grounding stud shall be located on the interior side of the pole hand-hole opening;

907-634.02.1.2--Galvanized Steel Poles for Cameras. Delete the second paragraph of Subsection 634.02.1.2 on page 543, and substitute the following.

Unless specified otherwise in the plans, poles shall be designed in accordance with the AASHTO *Standard Specifications for Structural Supports for Highway Signs, Luminaries and Traffic Signals*, as specified in the plans, including all interims and updates. Design life shall be 50 years for all poles. The design wind speed for all parts of the structure shall meet the wind requirements set forth in the latest edition of the AASHTO Wind Map, as stated in Subsection 722.02.3. The pole shall meet the design wind loading with all equipment installed.

Delete the fourth bullet in Subsection 634.02.1.2 on page 544, and substitute the following.

- Top of pole deflection shall not exceed one (1) inch deflection from center due to 30 mph (non-gust) winds or the maximum deflection allowed by Subsection 722.02.3, whichever is more restrictive, for 80-foot poles.

907-634.02.1.3--Galvanized Steel Poles for Detectors. Delete the second paragraph of Subsection 634.02.1.3 on page 546, and substitute the following.

Unless specified otherwise in the plans, poles shall be designed in accordance with the AASHTO *Standard Specifications for Structural Supports for Highway Signs, Luminaries and Traffic Signals*, as specified in the plans, including all interims and updates. Design life shall be 50 years for all poles. The design wind speed for all parts of the structure shall meet the wind requirements set forth in the latest edition of the AASHTO Wind Map, as stated in Subsection 722.02.3.

Delete the last two sentences of the fifth paragraph of Subsection 634.02.1.3 on page 546, and substitute the following.

Design wind loading shall be as indicated in Subsection 722.02.3 unless otherwise noted in the plans. The pole shall meet design wind loading with all equipment installed.

907-634.02.1.4--Aluminum Poles for Detectors. Delete the second paragraph of Subsection 634.02.1.4 on page 547, and substitute the following.

Unless specified otherwise in the plans, poles shall be designed in accordance with the AASHTO *Standard Specifications for Structural Supports for Highway Signs, Luminaries and Traffic Signals*, as specified in the plans, including all interims and updates. Design life shall be 50 years for all poles. The design wind speed for all parts of the structure shall meet the wind requirements set forth in the latest edition of the AASHTO Wind Map, as stated in Subsection 722.02.3. The pole shall meet design wind loading with detector(s) installed.

907-634.02.1.5--Structure-Mounted ITS Equipment Poles. Delete the second paragraph of Subsection 634.02.1.5 on page 548, and substitute the following.

Unless specified otherwise in the plans, poles shall be designed in accordance with the AASHTO *Standard Specifications for Structural Supports for Highway Signs, Luminaries and Traffic Signals*, as specified in the plans, including all interims and updates. Design life shall be 50 years for all poles. The design wind speed for all parts of the structure shall meet the wind requirements set forth in the latest edition of the AASHTO Wind Map, as stated in Subsection 722.02.3. For projects that are in areas with higher wind standards, the higher standard is required. The pole shall meet design wind loading with all equipment installed.

Delete the second bullet in Subsection 634.02.1.5 on page 548, and substitute the following.

- Consideration shall be given for all possible loading combinations including ice and wind loads, as stated in Subsection 722.02.

After Subsection 634.02.1.8 on page 549, add the following.

907-634.02.1.9--ITS Extension Poles. ITS extension poles are used to provide ITS devices a mounting location with a vertical or horizontal clearance away from an existing pole or structure to which they are to be attached. As such, extension poles and the mounting and attachment hardware shall be of a material that will not cause galvanic corrosion with existing or proposed equipment. If possible, the extension poles shall be similar in color to the base pole or structure, unless otherwise directed. They shall meet the requirements of the base pole, the plans, and Subsection 722.02. Design considerations shall be given to the additional loading being subjected to the base pole or structure.

907-634.02.2--Camera Lowering Device. The lowering device system shall be designed to support, raise, and lower a standard CCTV camera, lens, housing, PTZ mechanism, cabling, connectors, and other supporting field components. The camera connector box shall be cast ZA-12 (12% Al and 88% Zn) and have a minimum weight that ensures stability of the camera during raising and lowering operation. The camera connector box shall have fully gasketed doors to prevent water intrusion. The bottom of the camera connector box shall be equipped with a condensation/moisture exit system. The camera connector block shall be molded in thermoset, weather-resistant, synthetic rubber designed to handle harsh environments.

Electrical contacts must also be designed to handle harsh environments. There shall be a locking mechanism between the fixed and movable components. For the movable components, a latching mechanism shall be provided to hold the device in place (when latched all weight shall be removed from the lowering cable) and to raise or lower the assembly using the lowering tool and lowering cable. The suspension contact unit housing shall be weatherproof with a gasket to isolate the interior from dust and moisture.

All pulleys shall have sealed, self-lubricated bearings, oil tight bronze bearings, or sintered bronze bushings. The lowering cable shall be a minimum 1/8-inch diameter stainless steel aircraft cable. Internal wireways shall prevent the stainless steel lifting cable from contacting power or video cabling. The only cable permitted to move is the lifting cable, all other cables must remain stable and secure during lowering and raising operations.

The lowering tool shall consist of a lightweight-metal frame and winch assembly, a quick release cable connector, an adjustable safety clutch, and a variable speed industrial duty electric drill motor. This tool shall be able to access the lifting cable through a pole hand hole, shall support itself and the load during lowering, and shall provide a means to prevent freewheeling when loaded. This tool shall have a reduction gear to reduce the manual effort required during lifting operations. In addition, this tool shall be provided with an adapter for operating the lowering device with a portable drill using a clutch mechanism. The portable lowering tool shall be included as part of the installed system. The lowering device shall include customized adapter brackets to install cylindrical type PTZ CCTV cameras that have a mounting base below the camera assembly and is require to be installed in an upright position.

907-634.03--Construction Requirements.

907-634.03.1--Foundations. Delete the last sentence of the fourth paragraph of Subsection 632.03.1 on page 550, and substitute the following.

Where foundations are constructed in areas where the pavement edge elevation and shoulder edge elevation differ more than twelve (12) inches, taller foundations may be used but must be approved by the Engineer.

907-634.04--Method of Measurement. After the last sentence of the fourth paragraph of Subsection 634.04 on page 552, add the following.

Field conditions may require taller foundations than specified in the plans. In which case, the addition concrete will be paid for at the contract bid price per cubic yard for pole foundations.

After the sixth paragraph of Subsection 634.04 on page 553, add the following.

ITS extension poles of the type specified will be measured as a unit quantity per each.

Delete the last paragraph in Subsection 634.04 on page 553 and substitute the following.

Wooden poles will be measured as a unit quantity per each.

Camera lowering device will be measured as a unit quantity per each.

907-634.05--Basis of Payment. After the fourth paragraph of Subsection 634.05 on page 553, add the following.

Camera lowering device and camera lowering tool, as described above, shall be paid for at the contract unit price per each. This price shall be full compensation for all materials, design, installation, equipment, tools, labor and incidentals associated with providing and installing the camera lowering device and the camera lowering tool.

After the sixth paragraph of Subsection 634.05 on page 553, add the following.

ITS extension poles, measured as prescribed above, will be paid for at the contract unit price per each, which price shall be full compensation for furnishing all materials, for installing the extension pole, mounting attachments as necessary, adjusting the pole to meet specific project needs, and for all equipment, tools, labor, and incidentals necessary to complete the work.

After the last paragraph of Subsection 634.05 on page 554, add the following.

Sizing poles and their appurtenances to field conditions is the Contractor's responsibility. No separate payment will be made for designing to meet project specifications and field conditions.

Delete the pay items listed on page 554, and substitute the following.

907-634-A: Traffic Signal Equipment Pole, Type __, __' Shaft, __' Arm * - per each

907-634-B: Traffic Signal Equipment Pole Shaft Extension, ____' **	- per each
907-634-C: Pole Foundations, Class ____ Concrete	- per cubic yard
907-634-D: Slip Casing, ____" Diameter	- per linear foot
907-634-E: Camera Pole with Foundation, ____' Pole	- per each
907-634-F: Detector Pole with Foundation, ____' Pole	- per each
907-634-G: Traffic Signal Equipment Pole Mast Arm Extension, ____' **	- per each
907-634-H: ITS Equipment Pole, Structure Mounted, ____' Pole	- per each
907-634-I: Wood Pole, Class ____ Height ____'	- per each
907-634-J ITS Extension Pole, _____' **	- per each
907-634-K: Camera Lowering Device	- per each

* Multiple Arms may be indicated

** Additional information may be indicated

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-636-2

CODE: (IS)

DATE: 11/15/2017

SUBJECT: Electrical Cable

Section 636, Electrical Cable, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-636.01--Description. Delete the last sentence of the last paragraph in Subsection 636.01 on page 555 and substitute the following.

It shall include excavating, laying, placing tracer cable or tape, backfilling, replacing sod, aerial supports and/or pull-through conduits, as applicable; and transformer enclosures and/or terminal boxes when not placed under other items of the contract.

907-636.02--Materials. After the paragraph of Subsection 636.02 on page 555, add the following.

907-636.02.1--ITS Ground Mounted Meter Enclosure.

907-636.02.1.1--Meter Base. Meter bases shall be NEMA Type 3R with a minimum rating of 100 amps and shall meet the requirements of the local utility. The meter base shall be provided with ampere rating of meter sockets based on sockets being wired with insulated wire rated at least 167°F. The meter base shall be designed for underground service.

Meter bases shall be 4-terminal, 600 volt, single phase, 3-wire furnished with the following:

- (a) Line, load and neutral terminals accepting #8 to 2/0 AWG copper/aluminum wire,
- (b) Ringed or ringless type, with or without bypass,
- (c) Made of galvanized steel,
- (d) Listed as meeting UL Standard UL-414, and
- (e) Underground service entrance as specified.

The meter bases shall have electrostatically applied dry powder paint finish, light gray in color, with a minimum thickness of 2.4 mils.

A 1-inch watertight hub for threaded rigid conduit shall be furnished with meter base.

907-636.02.1.2--Disconnect. External electrical service disconnects shall be furnished with a single pole 50-amp inverse time circuit breaker with at least 10,000 RMS symmetrical amperes short circuit current rating in a lockable in open or closed position in accordance with National Electric Code (NEC) and be a NEMA 3R Type enclosure. The disconnect shall be listed as meeting UL Standard UL-489 and marked as being suitable for use as service equipment.

The disconnect enclosure shall be fabricated from galvanized steel and electrostatically apply dry powder paint finish, light gray in color, to yield a minimum thickness of 2.4 mils. Ground bus and neutral bus shall be provided with at least four terminals with minimum wire capacity range of number 14 through number 4.

For 480V service, a local utility approved, lockable, non-fused disconnect switch on the supply side of the meter base shall be furnished, installed, and labeled as "Utility Disconnect". A separate load side disconnect with overcurrent protection shall be provided within two feet (2') of the meter.

907-636.02.1.3--Ground Mounted – Pedestal – Service Panel. The pedestal shall be of NEMA Type 3R rainproof construction and shall be UL Listed as "Enclosed Industrial Control Equipment" (UL 508A). External construction shall comply with UL50 requirements and shall be of G90 galvanized steel with light green #14672 Federal Specification 595 polyurethane industrial grade powder paint.

Hinges shall be stainless steel and of the continuous piano hinge type.

The pedestal mounting bolts shall not be externally accessible. The pedestal shall be able to be embedded in concrete or use anchor bolts for mounting on concrete base. Either pedestal mounting base or anchor bolt kit shall be used for installation.

The service pedestal should have three separate isolated sections for metering equipment, utility termination and customer equipment.

The metering section shall be pad-lockable and sealable and have a hinged swing hood with an integral hinged polycarbonate sealable window for access to demand meters. Meter socket type shall meet the requirements of the serving utility.

The utility termination section shall be pad-lockable and sealable and shall have a stainless steel handle provided on a lift-off cover. Sufficient clearance shall be provided for a 4-inch diameter conduit for utility cables entrance. Utility landing lugs shall be UL listed and shall accommodate conductor sizes between AWG #6 – 350 kcmil.

The customer compartment door shall be hinged on the left hand side. A stainless pad-lockable hasp shall be provided to secure customer compartment. A door keeper shall be provided to keep the door in an open position. A print pocket shall be provided on the inside of the door in a weatherproof sleeve. Required UL labeling shall be located on the inside of the customer door. Distribution and control equipment shall be behind an internal dead-front door with a quarter-turn securing latch and be hinged to open more than 90 degrees. The dead-front door shall be hinged on the same side as the customer section door. All distribution and control equipment shall be factory wired using 600-volt wire sized to NEC and UL requirements.

The service pedestal shall be rated for operation at 10K minimum amps interrupting capacity (AIC). The provided documentation shall list circuit breaker combinations and those to be used for de-rated operation for series ratings. Circuit breakers shall be permanently labeled with engraved name plates.

The serving utility shall be contacted for necessary requirements before ordering or installing equipment.

907-636.02.2--ITS Ground Mounted Transformer Enclosure.

907-636.02.2.1--Disconnect. The disconnect shall meet the requirements of Subsection 907-636.01.2.

907-636.02.2.2--Ground Mounted - Pedestal – Service Panel. The ground mounted - pedestal – service panel shall meet the requirements of Subsection 907-636.01.3. In addition, the transformer shall be rated to match the requirement of the primary service and the types of load served as specified in the plans. The transformer unit shall be installed inside the enclosure and meet all applicable codes. Each transformer shall be furnished as one complete unit and wiring of multiple transformers to meet the required ratings at each enclosure location is not allowed. Step-up and Step-down transformers shall be designed specifically for each application. Reverse feeding of step-up and step-down transformers is not allowed. All transformers shall be designed for outdoor installation and rated 600 VAC and below.

907-636.04--Method of Measurement. Delete the first paragraph of Subsection 636.04 on page 557, and substitute the following.

Electric cable of the type specified, constructed as specified on the plans, will be measured by the linear foot. Measurement will be computed horizontally along the conduit, messenger cable or mast arm and vertically along the pole. Measurement in underground conduit is only in the horizontal plane and no additional quantity shall be added for conduit depth or change in elevation of the conduit. No extra length will be allowed for cable inside signal heads, drip loops, or sag in aerial supported cable. Tracer tape, when required in the plans, used with tracer cable will not be measured for separate payment but shall be included in the contract price for Tracer Cable. The terminals for the measurements of lengths will be considered specifically as the center of the pull boxes, poles, signal heads or controller cabinets.

After the first paragraph of Subsection 636.04 on page 557, add the following.

ITS Ground Mounted Enclosures, complete in place and accepted, will be measured as a unit quantity per each for a complete and operable unit in accordance with the contract provisions.

907-636.05--Basis of Payment. After the first paragraph of Subsection 636.05 on page 557, add the following.

ITS Ground mounted enclosures, measured as prescribed above, will be required wherever ground mounted meter enclosures or step-up or step-down transformers are noted as required in the plans. The enclosures shall be paid for at the contract unit price bid per each; which price shall be full compensation for any transformers (as described in the plans), foundation construction, cabinets, pedestals, meter bases, disconnects, relays, terminals, circuit breakers, sockets, hubs, buses, connectors, mounting material, all other materials for constructing, installing, connecting, testing

and final cleanup; and for all equipment, labor, tools and incidentals necessary to complete the work in accordance with the contract documents.

In the first sentence of the second paragraph of Subsection 636.05 on page 557, change “relaid” to “re-laid”.

Delete the list of pay items on pages 557 and 558, and substitute the following.

907-636-A: Electric Cable, Direct Burial, <u>Type</u> , AWG ____, ____ Conductor	- per linear foot
907-636-B: Electric Cable, Underground in Conduit, <u>Type</u> , AWG ____, ____ Conductor	- per linear foot
907-636-C: Electric Cable, Aerial Supported, <u>Type</u> , AWG ____, ____ Conductor	- per linear foot
907-636-D: Electric Cable, Aerial Supported in Conduit, <u>Type</u> , AWG ____, ____ Conductor	- per linear foot
907-636-E: Electric Cable, Underground in Conduit, Tracer Cable	- per linear foot
907-636-F: Electric Cable, Repair	- per linear foot
907-636-G: Underground Cable and Conduit, Removed	- per linear foot
907-636-H: Underground Cable and Conduit, Removed and Re-laid	- per linear foot
907-636-I: ITS Ground Mounted * Enclosure	- per each

* Indicates Meter or Transformer Enclosure Type

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-637-2

CODE: (IS)

DATE: 11/15/2017

SUBJECT: Traffic Signal Conduit and Pull Boxes

Section 637, Traffic Signal Conduit and Pull Boxes, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-637.02--Materials.

907-637.02.1--Pull Box / Enclosures. Delete the first sentence of the second paragraph of Subsection 637.02.1 on page 558, and substitute the following.

For grade level pull boxes and enclosures only, Tier 22 (22,500-pound design load, 33,750-pound test load) enclosures with minimum size dimensions as shown in the detail drawings on the plans shall be installed for use in traffic signal construction. Enclosure boxes shall be open bottom.

Delete the fourth sentence of the second paragraph of Subsection 637.02.1 on page 558.

907-637.03--Construction Requirements.

907-637.03.1--Pull box/Enclosures. Delete the sixth sentence of the first paragraph of Subsection 637.03.1 on page 559, and substitute the following.

Enclosures located in soil or sodded areas shall be installed with a supporting poured concrete collar or approved composite collar assembly, as shown by details on the plans.

907-637.03.2.1--Conduit Duct Bank. Delete the first sentence of subparagraph a) under Bored or drilled conduit in Subsection 637.03.2.1 on page 560, and substitute the following.

All conduits under railroad tracks shall be horizontal directional bored or drilled at a minimum of ten (10) feet below the railroad bed, or as required by the Railroad Company.

Delete Subsections 637.03.2.4 and 637.03.2.5 on pages 561 & 562, and substitute the following.

907-637.03.2.4--Blank.

907-637.03.2.5--Blank.

907-637.04--Method of Measurement. Delete subparagraphs a) and b) in Subsection 637.04 on page 563, and substitute the following.

- a) From center to center of pull box and/or foundation.

- b) Any above ground vertical conduit runs, as indicated in the plans. Measurement in underground conduit is only in the horizontal plane and no additional quantity shall be added for conduit depth or change in elevation of the conduit.

907-637.05--Basis of Payment. Delete the fourth and fifth paragraphs of Subsection 637.05 on page 564, and substitute the following.

Duct Plugs and Sealant will be included in the cost of the conduit and will not be measured separately.

Delete the pay items listed on page 564 and substitute the following.

907-637-A:	Pull Box Enclosure, <u>Type</u>	- per each
907-637-B:	Pull Box Enclosure, Structure Mounted, <u>Type</u>	- per each
907-637-C:	Traffic Signal Conduit, Underground, <u>Type, Size</u>	- per linear foot
907-637-D:	Traffic Signal Conduit, Underground Drilled or Jacked, <u>Type, Size</u>	- per linear foot
907-637-E:	Traffic Signal Conduit, Structural Conduit, <u>Type, Size</u>	- per linear foot
907-637-F:	Traffic Signal Conduit, Aerial Supported, <u>Type, No, Size</u>	- per linear foot
907-637-G:	Traffic Signal Conduit, Underground Encased in Concrete, <u>Type, Size</u>	- per linear foot
907-637-H:	Traffic Signal Conduit Bank, Underground, <u>Type, No., Size</u>	- per linear foot
907-637-I:	Traffic Signal Conduit Bank, Underground Drilled or Jacked, <u>Type, No., Size</u>	- per linear foot
907-637-J:	Traffic Signal Conduit Bank, Structural Conduit, <u>Type, No., Size</u>	- per linear foot
907-637-K:	Traffic Signal Conduit Bank, Aerial Supported, <u>Type, Size and Number</u>	- per linear foot

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-639-2

CODE: (IS)

DATE: 11/15/2017

SUBJECT: Traffic Signal Preemption Systems

Section 639, Traffic Signal Preemption System, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

Delete Section 639 on pages 566 thru 578, and substitute the following.

SECTION 907-639 - TRAFFIC SIGNAL PREEMPTION SYSTEMS

907-639.01--Description. This item consists of providing Railroad Signal Preemption, Type 1 and Type 2 Emergency Vehicle Preemption for the traffic signal controller in accordance with Plan details, the Standard Specifications, these specifications, and as directed by the Engineer.

The Type 1 Emergency Vehicle Preemption for the traffic signal controller shall use optical communication to identify the presence of designated priority vehicles and cause the traffic signal controller to advance to and/or hold a desired traffic signal display selected from phases normally available.

The Type 2 Emergency Vehicle Preemption for the traffic signal controller shall utilize Radio/GPS to identify the presence of designated priority vehicles and cause the traffic signal controller to advance to and/or hold a desired traffic signal display selected from phases normally available.

A confirmation lights and rotating beacons shall be utilized to indicate the activation of preemption call. The system shall initiate beacons indicating a priority call has been received. The system shall initiate a confirming steady white light to the approach direction from which the vehicle is approaching once the desired priority display has been received. The beacon and confirming white light shall remain energized until the preemption call is dropped.

907-639.02--Materials. All connections and equipment shall be new and constructed using the highest quality, commercially available components and techniques to assure high reliability and minimum maintenance of the emergency vehicle and railroad signal preemption systems.

The requirements for the emergency preemption vehicle equipment in Subsection 907-639.02.2.1 are to be furnished and installed by the local maintaining agencies and not the responsibility of the Contractor. However, it is the responsibility of the Contractor to provide the intersection preemption equipment required in Subsections 907-639.02.2.2 and 907-639.03 that is compatible with the equipment listed in Subsection 907-639.02.2.1.

907-639.02.1--Railroad Preemption. The Railroad Signal Preemption shall consist of the minimum following components:

- Coordination
- Flagger (as required)
- Application Submittals (as required)
- Connections to hardware (as required)

907-639.02.2--Type 1 Emergency Vehicle Preemption. Emergency Vehicle Preemption Systems shall consist of the following principal Intersection Equipment components: Detectors/Receivers, Multimode Phase Selectors, and Auxiliary Interface Panel. The function intended for use with this system includes Emergency Vehicle Preemption to the traffic signal.

907-639.02.2.1--Vehicle Equipment.

907-639.02.2.1.1--Emitter. The emitter shall include a multi-purpose communication port compliant with the SAE J1708 communication standard. This port shall enable unit configuration to be set into the emitter and read from the emitter. It also shall allow real-time communication between the vehicle and the emitter.

An ON/OFF switch (available for each emitter) shall be equipped with an indicator light providing internal diagnostics to assist in troubleshooting.

While operating, the emitter shall conduct self-diagnostics designed to monitor data transmission integrity by checking for missing pulses. Any failures of the self-diagnostic tests shall be displayed by flashing of the ON/OFF switch indicator light.

The emitter shall be equipped with a disabling input that, when activated, will cause the emitter to stop flashing. This input shall eliminate the possibility of inadvertent signal transmission after the priority vehicle has arrived at its destination. The disable input shall be programmable to operate in either a latching or non-latching mode. Operation of the disable input shall be programmable using software.

The emitter shall provide operating modes that allow it to be powered on with the strobe/LEDs for activation of the preempt.

The emitter shall be powered by the DC voltage supplied from the battery of the vehicle, 10 to 32 volts DC.

The unit shall be equipped with a weatherproof in-line fuse holder and a weatherproof quick-disconnect plug.

The emitter shall contain visible light LEDs which may be user configured as follows:

- Flash at emitter flash rate during normal operation.
- Flash at diagnostic rate when unit has failed or is in disable mode.
- Off during normal operation, flash at diagnostic rate when unit has failed or is in
- Disable mode. The visible LEDs will be Off during normal operation.
- Flash once per second for ten (10) seconds at power up.
- Always Off: The visible LEDs will remain Off at all times.

The Emitter shall be supplied complete with a two (2) foot installation cable.

The flash sequence generated by the emitter shall carry three (3) types of information:

- The first type shall be one (1) of three (3) distinctly different base frequencies of:
 - 10Hz for a low priority emitter;
 - 14Hz for a high priority emitter; or
 - 12Hz for Probe frequency.
- The second type of information generated by the emitter shall be a vehicle classification and identification code that is interwoven into the base frequency flashes. Setting the vehicle classification and identification code shall be accomplished through Emitter Programming Software.
- The third type of information generated by the emitter shall be reserved for setting the intersection detection range. A specially equipped emitter control module with a range setting command switch will enable the Engineer to activate the range code from the vehicle.

The emitters shall use infrared LEDs with an angle of half intensity of ± 10 degrees to provide precise directionality control. The emitter shall operate over a temperature range of -30°F to +165°F. The emitter shall operate over a relative humidity range of 5% to 95%. Windows™ based software shall be available at no charge for programming the emitter through its SAE J1708 compatible multi-purpose port.

907-639.02.2.2--Intersection Equipment.

907-639.02.2.2.1--Multimode Phase Selector. The multimode phase selector recognizes inputs from both infrared and Radio/GPS activation methods at the intersection and supplies coordinated inputs to the controller.

The multimode phase selector shall be designed to be installed in the traffic controller cabinet and is intended for use directly with numerous controllers. These include Type 170/2070 controllers with compatible software, NEMA controllers, or other controllers along with the system card rack and suitable interface equipment and controller software.

The multimode phase selector shall include the ability to directly sense the green traffic controller signal indications through the use of dedicated sensing circuits and wires connected directly to field wire termination points in the traffic controller cabinet. This connection shall be made using the Auxiliary Interface Panel.

The multimode phase selector will be a plug-in, 4-channel, multiple-priority, multi-modal device intended to be installed directly into a card rack located within the controller cabinet. The multimode phase selector shall be capable of using existing infrared or Radio/GPS system card racks. The multimode phase selector shall be powered from either +24 VDC or 120 VAC.

The multimode phase selector shall support front-panel RS-232, USB and Ethernet interfaces to allow management by on-site interface software and central software. An RS-232 port shall be provided on the unit. Additional RS-232 communication ports shall be available using the

Auxiliary Interface Panel.

The multimode phase selector shall have the capability of storing a minimum of 10,000 priority control calls. When the log is full, the phase selector shall drop the oldest entry to accommodate the new entry. The multimode phase selector shall store each call record in non-volatile memory and shall retain the record if power terminates.

The multimode phase selector shall support a minimum of 5,000 code pairs (agency ID, vehicle ID) for each of the priority levels, high and low, providing unique vehicle identification and system security implementation at the vehicle level.

The multimode phase selector shall include several programmable control timers that will limit or modify the duration of a priority control condition, by channel. The control timers will be as follows:

- Max call time
- Off approach call hold time
- Lost signal call hold time
- Call delay time

The multimode phase selector shall have the ability to enable or disable all calls of all priority levels. This shall be independently settable by channel.

A unique intersection name, which shall be broadcast, shall be settable for each Multimode Phase Selector.

Up to 25 different radio channels shall be available to be assigned to the multimode phase selector.

The multimode phase selector shall operate in a mode that shall vary the output based on the status of the approaching vehicle's turn signal. Additional outputs available on an auxiliary interface panel may be needed. Settings shall be available for this mode as follows:

- Output mappings for each channel.
- Separate setting for high and low priority levels.
- Separate settings for each left turn, right turn or straight signal status for each of the four (4) channels and priority levels.

The multimode phase selector's default values shall be programmable by the operator on-site or at a remote location.

The multimode phase selector shall be capable of three (3) levels of signal discrimination, as follows:

- Verification of the presence of the signal of either high priority or low priority.
- Verification that the vehicle is approaching the intersection within a prescribed
- Estimated Time of Arrival (ETA).
- Determination of when the vehicle is within the prescribed range, either by intensity level or

distance from the intersection.

The multimode phase selector shall include one (1) opto-isolated NPN, or sinking, output per channel that provides the following electrical signal to the appropriate pin on the card edge connector:

- 6.25Hz $\pm$ 0.1Hz 50% on/duty square wave in response to a low priority call.
- A steady ON in response to a high priority call.
- The multimode phase selector will also have the option of providing separate outputs for High and Low priority calls for controllers that do not recognize a 6.25 Hz pulsed
- low priority request.
- Additional outputs or output modes shall also be available on the Auxiliary Interface
- Panel in case of need for additional modes of operation.

The multimode phase selector shall accommodate the following three (3) methods for setting range thresholds for High and Low priority signals.

- Based on the approaching vehicle's Estimated Time of Arrival (ETA). This shall be settable between zero (0) and 255 seconds in one (1) second increments.
- Based on the approaching vehicle's distance from the intersection. This shall be settable in one (1) foot increments.
- Based on emitter intensity the system shall accommodate setting a separate range from 200 feet to 2,500 feet with range set points for both High and Low priority signals.

The multimode phase selector will have the following indicators:

- A status indicator that illuminates steadily to indicate proper operation.
- A link indicator on the multimode phase selector illuminates if other radios are within range.
- A radio indicator that indicates the status of the communication between the vehicle control unit and the Radio/GPS unit. The indicator illuminates to indicate that there is communication between the vehicle control unit and the Radio/GPS unit. The indicator illuminates to indicate that a GPS signal has been acquired and the 2.4 GHz radio is on the air.
- LED indicators (one (1) for high priority, one (1) for low priority) for each channel display active calls as steady ON and pulse to indicate pending preemption requests.

The multimode phase selector shall have a test switch for each channel to test proper operation of High or Low Priority.

The multimode phase selector shall utilize the time obtained from the GPS satellites to time stamp the activity logs. The user will set the local time zone (offset from GPS time) via the interface software.

The interface software shall have the capability to set the multimode phase selector to automatically adjust the GPS time offset for changes in daylight savings time.

An auxiliary interface panel shall be available to facilitate interconnections between the multimode phase selector and traffic cabinet wiring as well as provide additional outputs.

A multimode phase selector port may be configured to output GPS data at a user selectable baud rate in the NMEA 0183 format. It will output the following messages depending on the baud rate:

- GGA - Global Positioning System Fix Data (2400 baud and higher)
- GSA - GPS DOP and active satellites (2400 baud and higher)
- GSV - Satellites in view (4800 baud and higher)
- RMC - Recommended Minimum Navigation Information (1200 baud and higher)

The following diagnostic tests are incorporated in the multimode phase selector:

- Power up built in test
- Communications port tests
- Preemption output test call
- Detector response test

The multimode phase selector shall be capable of call bridging.

When used with a GPS radio unit, the multimode phase selector shall relay a priority request to the next adjacent intersection based on the direction indicated by the vehicle's turn signals.

The multimode phase selector shall support evacuation mode for Low priority calls. The multimode phase selector shall allow relative priority.

907-639.02.2.2.1.1--Card Rack. The required card rack shall provide simplified installation of a multimode phase selector into controller cabinets that do not already have a suitable card rack.

The card rack shall be factory wired with one (1) connector, located behind the card slot, and one (1) connector on the front of the card rack.

The card rack connector on the front shall provide for connections to the traffic controller.

The Contractor shall verify card rack requirements with the Engineer prior to submitting this equipment.

One (1) version of the card rack shall contain a 24 VDC power supply to power the phase selector. The power supply shall be capable of being powered by 100-240 VAC 50-60 Hz.

Another version of the card rack shall pass 120 VAC through to the rear card rack connector. This version shall provide labeled terminal blocks for connecting the primary infrared detectors to a phase selector.

Additionally, there shall be an optional card rack with a built-in Electromechanical Relay for use in switching high current loads such as flashers and gate operators. The relay shall be capable of switching the following loads.

Resistive: 10 A, 240 VAC
10 A, 30 VDC

General Use: 7.5 A, 120 VAC
7.5 A, 240 VAC
7 A, 30 VDC
1/6 hp, 120 VAC
1/3 hp, 240 VAC

907-639.02.2.2.2--Optical Detector.

907-639.02.2.2.2.1--General. The optical detector shall be a light-weight, weather proof device capable of sensing and transforming pulsed optical energy into electrical signals for use by the traffic signal phase selection equipment.

907-639.02.2.2.2.2--Functional Requirements. The optical detector unit shall perform the following functions and meet the requirements listed below.

- a) The unit shall be high-impact polycarbonate construction with stainless steel and/or brass hardware. The unit shall be designed for easy mounting at or near an intersection on mast arm, pedestal, pole, or intersection span wire.
- b) The unit shall accept optical signals from one (1) or two (2) directions and provide a single electrical output signal, as specified in the plans. The unit shall include a design feature to allow aiming of the two optical sensing inputs for hills, skewed approaches or slight curves.
- c) The unit shall have built-in terminal strip to simplify wiring connections. The unit shall receive power from the traffic signal phase selector equipment and have internal voltage regulation to be operational from 16 to 40 volts AC.
- d) The unit shall be responsive to the optical emitter at a distance of 1,800 feet. The unit shall deliver the necessary electrical signal to the traffic signal phase selector equipment via up to 1,000 feet of optical detector cable.
- e) The unit shall employ replacement circuit board assembly and photocells to facilitate repair.

907-639.02.2.2.3--Optical Detector Cable. The optical detector cable shall meet the requirements listed below.

- a) The cable shall guarantee delivery of the necessary quality signal from the optical detector to the traffic signal phase selector equipment over non-spliced distance of 1,000 feet. The cable shall guarantee sufficient power to the optical detector over a non-spliced distance of 1,000 feet.
- b) The cable shall be of durable construction for installation by direct burial, in conduit or mast arm, or exposed overhead supported by messenger wire. The weight of the cable shall have a minimum insulation rating of 600 volts and a temperature rating of 80°C.
- c) The cable shall have three (3) conductors of AWG 20 stranded, individually tinned copper color coded as follows.
 - 1. Orange for delivery of optical detector power (+)
 - 2. Blue for optical detector power return (-)
 - 3. Yellow for optical detector signal

The conductors will be shielded with aluminized polyester and have an AWG #20 stranded and individually tinned drain wire to provide signal integrity and transient protection. The shield

wrapping shall have 20% overlap to ensure integrity following conduit and mast arm pulls.

907-639.02.2.2.4--Electrical and Environmental Requirements. All equipment supplied as part of the priority control system intended for use in the controller cabinet shall meet the following electrical and environmental specifications spelled out in the NEMA Standards Publication TS 2-2003, Part 2: v02.06:

- Line voltage variations per NEMA TS 2-2003, Paragraph 2.1.2.
- Power source frequency per NEMA TS 2-2003, Paragraph 2.1.3.
- Power source noise transients per NEMA TS 2-2003, Paragraph 2.1.6
- Temperature range per NEMA TS 2-2003, Paragraph 2.1.5
- Humidity per NEMA TS 2-2003, Paragraph 2.1.5
- Shock test per NEMA TS 2-2003, Paragraph 2.2.9.
- Vibration per NEMA TS 2-2003, Paragraph 2.2.8
- Non-Destructive Transient immunity NEMA TS 2-2003, Paragraph 2.1.8.
- Input-output terminals NEMA TS 2-2003, Paragraph 2.1.7.
- FCC Part 15 Subpart B Class A EMC Standard
- Canada ICES-003, Issue 4:2004 Class A EMC Standard
- EN50293: 2000 Electromagnetic Compatibility--Road Traffic Signal Systems -- Product Standard.
- EN 61326-1:2006 EMC Standard.
- EN 55011:2007 +A2:2007 EMC Standard.

907-639.02.3--Type 2 Emergency Vehicle Preemption. Emergency Vehicle Preemption Systems shall consist of the following principal Intersection Equipment components: Detectors/Receivers, Multimode Phase Selectors, and Auxiliary Interface Panel. The function intended for use with this system includes Emergency Vehicle Preemption to the traffic signal.

907-639.02.3.1--Vehicle Equipment.

907-639.02.3.1.1--Vehicle Control Unit. The vehicle control unit shall provide the interface between the vehicle and the priority control system. The vehicle control unit shall also interface with the Radio/GPS module. The vehicle control unit shall monitor the status of the vehicle turn signal via an interface cable that will connect between the vehicle control unit and the left and right turn signal lines in the vehicle. The vehicle control unit shall also monitor the disable input line as well as the remote activation input. Power to the vehicle equipment shall be provided through the vehicle control unit.

The vehicle shall transmit the following information when within range of an equipped intersection:

- The priority level of the vehicle equipment. This shall be either high priority or low priority. The priority level shall be factory set. Each vehicle control unit shall be capable of setting 254 different agency IDs and 15 different vehicle type classifications with 9,999 different identification numbers per class.
- The location, speed and heading of the vehicle.

- The status of the vehicle's turn signal.
- The radio channel as assigned by the intersection and the serial number of the Vehicle Control Unit.

The vehicle shall be capable of being wired so that the GPS data is available either while the equipment is requesting priority or when not requesting priority. The vehicle control unit shall be equipped with an ON/OFF switch to activate the system and request priority. The switch shall be depressed to activate the system. In addition, a remote activation line shall be provided to interface with other vehicle equipment. This line shall have +12 VDC applied to request priority. The equipment shall be configured to activate with the light bar/remote activation line or via the ON/OFF switch.

The vehicle equipment shall be supplied complete with a 20-foot minimum installation cable as well as a 15-foot minimum vehicle interface cable.

The vehicle control unit shall include multi-purpose communication ports compliant with the RS-232 communication standard. These ports shall enable unit configuration to be set into the vehicle control unit and read from vehicle control unit. It also shall allow real-time communication between the vehicle control unit and the interface computer as well as interfacing with other devices. One of the ports shall be configured to output GPS data at a user selectable baud rate in the NMEA format while the vehicle control unit is turned On. It shall output the following messages (depending on the baud rate):

- GGA Global Positioning System Fix Data (2400 baud and higher)
- GSA GPS DOP and active satellites (2400 baud and higher)
- GSV Satellites in view (4800 baud and higher)
- RMC Recommended Minimum Navigation Information (1200 baud and higher)

The vehicle control unit shall also have a series of indicator lights that will operate as follows:

- A power indicator as well as an indicator light in the switch will indicate that the equipment is powered On.
- A GPS indicator will indicate the status of GPS reception.
- An indicator will indicate the status of the communication between the vehicle control unit and the Radio/GPS unit.
- A disable indicator will indicate if the vehicle equipment is in a Disable mode. The disable indicator and the indicator in the power switch will flash green or any other color as approved by the Engineer.
- The indicators shall be capable of being programmed to provide feedback for the following:
 - Phase selector has received preemption request.
 - Another vehicle approaching the intersection has received the preemption request.
 - Phase selector has received preemption request and another equipped vehicle is approaching the intersection from another direction.

The vehicle control unit shall be equipped with a disable input that, when activated, will cause the radio to transmit that the vehicle is in Disable mode, thereby eliminating the possibility of the priority request continuing after the priority vehicle has arrived at its destination. The disable

input shall be programmable to operate in either a latching or non- latching mode. The disable input shall be programmed so that the input may be activated by applying ground or by applying +12 VDC. Operation of the disable input shall be programmable using software. Additional inputs shall be included to temporarily switch the vehicle control unit to low priority and to Probe Mode. The vehicle equipment shall operate over a temperature range of -30°F to 165°F and a relative humidity range of 5% to 95%. Windows™ based software shall be available for programming the vehicle control unit through its RS-232 compatible multi-purpose port.

907-639.02.3.1.1.1--Antenna. A GPS receiver and antenna shall obtain the vehicle position, speed and heading from the GPS satellite system operated by the Department of Defense (DOD). The time information from the GPS satellites shall also be used to synchronize the frequency hopping of the 2.4 GHz radio.

The Radio/GPS antenna cables shall consist of a pair of 25-foot coax cables with factory terminated SMA connectors. One of these connectors shall have a pin and the other shall have a socket.

907-639.02.3.1.1.2--Radio. The Radio shall operate in the reserved Industrial, Scientific and Medical (ISM) communications band, requiring no license. A 2.4 GHz spread spectrum/frequency hopping radio shall provide the communications from the vehicle to the intersection when within range of a Radio/GPS equipped intersection. The radio shall have a transmit power of not more than one (1) watt. The radio shall have an unobstructed range of at least 2,500 feet. The radio shall meet FCC Part 15 rules. Radio link association and coordination among intersections and vehicles shall be automatic.

907-639.02.3.2--Intersection Equipment.

907-639.02.3.2.1--Multimode Phase Selector. The multimode phase selector recognizes inputs from both infrared and Radio/GPS activation methods at the intersection and supplies coordinated inputs to the controller.

The multimode phase selector shall be designed to be installed in the traffic controller cabinet and is intended for use directly with numerous controllers. These include Type 170/2070 controllers with compatible software, NEMA controllers, or other controllers along with the system card rack and suitable interface equipment and controller software.

The multimode phase selector shall include the ability to directly sense the green traffic controller signal indications through the use of dedicated sensing circuits and wires connected directly to field wire termination points in the traffic controller cabinet. This connection shall be made using the Auxiliary Interface Panel.

The multimode phase selector will be a plug-in, 4-channel, multiple-priority, multi-modal device intended to be installed directly into a card rack located within the controller cabinet. The multimode phase selector shall be capable of using existing infrared or Radio/GPS system card racks. The multimode phase selector shall be powered from either +24 VDC or 120 VAC.

The multimode phase selector shall support front-panel RS-232, USB and Ethernet interfaces to allow management by on-site interface software and central software. An RS-232 port shall be

provided on the unit. Additional RS-232 communication ports shall be available using the Auxiliary Interface Panel.

The multimode phase selector shall have the capability of storing a minimum of 10,000 priority control calls. When the log is full, the phase selector shall drop the oldest entry to accommodate the new entry. The multimode phase selector shall store each call record in non-volatile memory and shall retain the record if power terminates.

The multimode phase selector shall support a minimum of 5,000 code pairs (agency ID, vehicle ID) for each of the priority levels, high and low, providing unique vehicle identification and system security implementation at the vehicle level.

The multimode phase selector shall include several programmable control timers that will limit or modify the duration of a priority control condition, by channel. The control timers will be as follows:

- Max call time
- Off approach call hold time
- Lost signal call hold time
- Call delay time

The multimode phase selector shall have the ability to enable or disable all calls of all priority levels. This shall be independently settable by channel.

A unique intersection name, which shall be broadcast, shall be settable for each Multimode Phase Selector.

Up to 25 different radio channels shall be available to be assigned to the multimode phase selector.

The multimode phase selector shall operate in a mode that shall vary the output based on the status of the approaching vehicle's turn signal. Additional outputs available on an auxiliary interface panel may be needed. Settings shall be available for this mode as follows:

- Output mappings for each channel.
- Separate setting for high and low priority levels.
- Separate settings for each left turn, right turn or straight signal status for each of the four (4) channels and priority levels.

The multimode phase selector's default values shall be programmable by the operator on-site or at a remote location.

The multimode phase selector shall be capable of three (3) levels of signal discrimination, as follows:

- Verification of the presence of the signal of either high priority or low priority.
- Verification that the vehicle is approaching the intersection within a prescribed Estimated Time of Arrival (ETA).

- Determination of when the vehicle is within the prescribed range, either by intensity level or distance from the intersection.

The multimode phase selector shall include one (1) opto-isolated NPN, or sinking, output per channel that provides the following electrical signal to the appropriate pin on the card edge connector:

- 6.25Hz $\pm$ 0.1Hz 50% on/duty square wave in response to a low priority call.
- A steady ON in response to a high priority call.
- The multimode phase selector will also have the option of providing separate outputs for High and Low priority calls for controllers that do not recognize a 6.25 Hz pulsed low priority request.
- Additional outputs or output modes shall also be available on the Auxiliary Interface Panel in case of need for additional modes of operation.

The multimode phase selector shall accommodate the following three (3) methods for setting range thresholds for High and Low priority signals.

- Based on the approaching vehicle's Estimated Time of Arrival (ETA). This shall be settable between zero (0) and 255 seconds in one (1) second increments.
- Based on the approaching vehicle's distance from the intersection. This shall be settable in one (1) foot increments.
- Based on emitter intensity the system shall accommodate setting a separate range from 200 feet to 2,500 feet with range set points for both High and Low priority signals.

The multimode phase selector will have the following indicators:

- A status indicator that illuminates steadily to indicate proper operation.
- A link indicator on the multimode phase selector illuminates if other radios are within range.
- A radio indicator that indicates the status of the communication between the vehicle control unit and the Radio/GPS unit. The indicator illuminates to indicate that there is communication between the vehicle control unit and the Radio/GPS unit. The indicator illuminates to indicate that a GPS signal has been acquired and the 2.4 GHz radio is on the air.
- LED indicators (one (1) for high priority, one (1) for low priority) for each channel display active calls as steady ON and pulse to indicate pending preemption requests.

The multimode phase selector shall have a test switch for each channel to test proper operation of High or Low Priority.

The multimode phase selector shall utilize the time obtained from the GPS satellites to time stamp the activity logs. The user will set the local time zone (offset from GPS time) via the interface software.

The interface software shall have the capability to set the multimode phase selector to automatically adjust the GPS time offset for changes in daylight savings time.

An auxiliary interface panel shall be available to facilitate interconnections between the multimode phase selector and traffic cabinet wiring as well as provide additional outputs.

A multimode phase selector port may be configured to output GPS data at a user selectable baud rate in the NMEA 0183format. It will output the following messages depending on the baud rate:

- GGA - Global Positioning System Fix Data (2400 baud and higher)
- GSA - GPS DOP and active satellites (2400 baud and higher)
- GSV - Satellites in view (4800 baud and higher)
- RMC - Recommended Minimum Navigation Information (1200 baud and higher)

The following diagnostic tests are incorporated in the multimode phase selector:

- Power up built in test
- Communications port tests
- Preemption output test call
- Detector response test

The multimode phase selector shall be capable of call bridging.

When used with a GPS radio unit, the multimode phase selector shall relay a priority request to the next adjacent intersection based on the direction indicated by the vehicle's turn signals.

The multimode phase selector shall support evacuation mode for Low priority calls. The multimode phase selector shall allow relative priority.

907-639.02.3.2.1.1--Card Rack. The required card rack shall provide simplified installation of a multimode phase selector into controller cabinets that do not already have a suitable card rack.

The card rack shall be factory wired with one (1) connector, located behind the card slot, and one (1) connector on the front of the card rack.

The card rack connector on the front shall provide for connections to the traffic controller. The Contractor shall verify card rack requirements with the Engineer prior to submitting this equipment.

One (1) version of the card rack shall contain a 24 VDC power supply to power the phase selector. The power supply shall be capable of being powered by 100-240 VAC 50-60 Hz.

Another version of the card rack shall pass 120 VAC through to the rear card rack connector. This version shall provide labeled terminal blocks for connecting the primary infrared detectors to a phase selector.

Additionally, there shall be an optional card rack with a built-in Electromechanical Relay for use in switching high current loads such as flashers and gate operators. The relay shall be capable of switching the following loads.

Resistive: 10 A, 240 VAC
10 A, 30 VDC

General Use: 7.5 A, 120 VAC
7.5 A, 240 VAC
7 A, 30 VDC
1/6 hp, 120 VAC
1/3 hp, 240 VAC

907-639.02.3.2.2--Blank.

907-639.02.3.2.3--Intersection Radio/GPS Module. A GPS receiver and antenna shall obtain the intersection position from the GPS satellite system operated by the DOD. The time information from the GPS satellites shall be used to synchronize the frequency hopping of the 2.4 GHz radio and to time stamp the activity log. The GPS receiver and the GPS antenna shall reside inside of the Radio/GPS module.

A 2.4 GHz spread spectrum/frequency hopping radio shall provide the communications from the intersection to the vehicle as well as from intersection to intersection, or as shown in the plans.

As an alternate, the following Radio/GPS unit and Radio GPS antenna may be used in the intersection.

The Radio/GPS antenna shall be a hemispherical dome with a pair of 15-foot coax cables with factory terminated SMA connectors. One (1) of these connectors shall have a pin and the other will have a socket. This antenna shall include one (1) element for receiving the GPS signal and one (1) element for transmitting and receiving the radio signal. This antenna, along with the radio/GPS module, may also be used in the intersection.

The radio shall have a maximum transmit power of not more than one (1) watt. The radio shall have an unobstructed range of at least 2,500 feet. The radio will meet FCC Part 15 rules. The radio and the radio antenna shall reside inside of the Radio/GPS module.

The Radio/GPS module shall be housed in an impact resistant polycarbonate housing that will include a water resistant wire entry point. It shall contain a water resistant access cover to facilitate cable termination.

The Radio/GPS module shall be designed for mounting at or near an intersection on mast arms and span wire poles. Additional hardware may be needed.

The Radio/GPS module shall communicate to the multimode phase selector via a Radio/GPS cable up to 250 feet in length.

907-639.02.3.2.4--Radio/GPS Cable. The Radio/GPS cable shall deliver sufficient power from the multimode phase selector to the Radio/GPS module and will deliver the necessary quality signal from the Radio/GPS module to the multimode phase selector over a non- spliced distance of 250 feet.

Coaxial cable will not be permitted for this cable.

The Radio/GPS cable shall deliver sufficient power from the vehicle control unit to the Radio/GPS module and will deliver the necessary quality signal from the Radio/GPS module to the vehicle control unit over a non-spliced distance of 50 feet.

The cable shall be of durable construction to satisfy the following installations:

- Direct burial.
- Conduit and mast arm.
- Exposed overhead (supported by messenger wire)

The outside diameter of the cable shall not exceed 0.4 inches. The insulation rating of the cable shall be 300 volts minimum.

The temperature rating of the detector cable will be -40°F to +194°F.

The conductors shall be AWG #20 (7x28) stranded and individually tinned. The cable shall be shielded and have a drain wire to provide signal integrity and transient protection.

When the aluminum enclosure version of the Radio/GPS module is used, the Radio/GPS cable assembly shall use a 15-pin connector that will mate with the connector on the Radio/GPS module.

907-639.02.3.2.5--Electrical and Environmental Requirements. All equipment supplied as part of the priority control system intended for use in the controller cabinet shall meet the following electrical and environmental specifications spelled out in the NEMA Standards Publication TS 2-2003, Part 2: v02.06:

- Line voltage variations per NEMA TS 2-2003, Paragraph 2.1.2.
- Power source frequency per NEMA TS 2-2003, Paragraph 2.1.3.
- Power source noise transients per NEMA TS 2-2003, Paragraph 2.1.6
- Temperature range per NEMA TS 2-2003, Paragraph 2.1.5
- Humidity per NEMA TS 2-2003, Paragraph 2.1.5
- Shock test per NEMA TS 2-2003, Paragraph 2.2.9.
- Vibration per NEMA TS 2-2003, Paragraph 2.2.8
- Non-Destructive Transient immunity NEMA TS 2-2003, Paragraph 2.1.8.
- Input-output terminals NEMA TS 2-2003, Paragraph 2.1.7.
- FCC Part 15 Subpart B Class A EMC Standard
- Canada ICES-003, Issue 4:2004 Class A EMC Standard
- EN50293: 2000 Electromagnetic Compatibility--Road Traffic Signal Systems -- Product Standard.
- EN 61326-1:2006 EMC Standard.
- EN 55011:2007 +A2:2007 EMC Standard.

907-639.02.4--Confirmation Light. This indication is intended for use at traffic signal installations that employ Emergency Vehicle Preemption (EVP) systems which utilize confirmation lights to notify the emergency vehicle operators that the designated preemption display is active and from which approach direction the call activating the display was received.

The indication shall be an incandescent, tungsten-halogen or light emitting diode (LED) lamp. The confirmation light lamp shall be rated for outdoor use and shall have the illumination equivalent of a 95W incandescent lamp.

907-639.02.4.1—Confirmation Light Lamp Holder. The confirmation light lamp holder shall meet the following.

- (a) Be precision die-cast aluminum with heat sinks and ribbing to maximize heat dissipation.
- (b) Be a medium base lamp holder that accepts PAR38 lamps up to 250W incandescent or Tungsten-Halogen, and will also accept LED style lamps.
- (c) Have a premium porcelain socket with double reinforced screw shell and spring loaded center contact.
- (d) Be suitable for wet locations.
- (e) Have a gasket that consists of a thick silicone rubber seal backed up by a durable heat barrier and anchored in place with a metal lock ring to ensure unit stays weather tight in any position, above or below horizontal.
- (f) Have a nominal ½-inch NPT threaded adjustable arm, locknut preinstalled, and pre-lubed to facilitate mounting.
- (g) Have cast-in quadrants with serrated teeth to lock unit in place once aimed.
- (h) Have extra-long wire pigtails for easy splicing.
- (i) Shall be UL Listed.

907-639.02.4.2--Confirmation Light Mounting. The confirmation light may be mounted as an assembly with the appropriate optical detector, utilizing conventional conduit and fittings in accordance with Section 722 of the Standard Specifications. When mast arm mounted, all wiring shall be routed internally to the mounting assembly.

907-639.02.5--Rotating Beacon. The rotating beacon indication is intended for use in traffic signal systems that employ EVP systems that utilize rotating beacons to notify the emergency vehicle operators that a preemption call has been received.

907-639.02.5.1--General Construction. The rotating beacon shall be constructed with a non-corroding polycarbonate base with combination mount with a flat base and 1-inch pipe mounting. The lens shall have an elliptical dome shape and shall provide a high light transmission and light output. The outer surface shall be smooth to minimize the accumulation of dust and dirt. A gasket seal shall be provided between the dome lens and the base. The rotating beacon assembly shall be nominally six and one-half inches (6½") tall and five and one-half inches (5½") wide at its maximum width. The rotating beacon shall have a single light source and shall provide the rotating effect by a rotating refractor within the assembly. The dome lens shall be BLUE in color.

907-639.02.5.2--Rotating Beacon Mounting. The rotating beacon shall be mounted at locations and at heights above the pole bases as shown on the plans. The rotating beacon shall be mounted in a vertical position, employing a single traffic signal bracket in accordance with Section 722, of the Standard Specifications on the bottom of the rotating beacon. When mounted on a steel pole with internal wiring, all wiring shall be internal to the bracket and the pole.

907-639.03--Construction Requirements.

907-639.03.1--Railroad Preemption. The Contractor shall secure all items that are required to complete the installation. The Contractor shall coordinate with the railroad company for the connection of the Railroad Signal Preemption to the railroad controller's contact closure termination point as indicated in the Plans. The Contractor shall contact the railroad company prior to starting any construction to obtain any requirements for the connection.

During construction, the Contractor shall meet all railroad requirements to provide the connection including:

- Boring, Jacking, or Trenching of casing pipe, conduit, roll pipe, or any other required materials.
- Conduit connections into cabinet.
- Contact closure cable connections on termination blocks.

When required by the railroad company and any agreements, the Contractor shall furnish a Flagger to accommodate work within the railroad right of way. The Contractor shall schedule all work to minimize time within the right of way.

907-639.03.2--Type 1 and Type 2 Emergency Vehicle Preemption.

907-639.03.2.1--Vehicle Equipment. Equipment shall be the responsibility of the local maintaining agency for all necessary equipment and installation.

907-639.03.2.2--Intersection Equipment. The Contractor shall install, configure, and demonstrate a fully functional Emergency Vehicle Preemption System as shown in the Plans. The Contractor shall install all equipment according to the manufacturer's recommendations. The Type 1 intersection equipment including, the multimode phase selector, intersection optical detector, associated optical detector cabling, and card rack shall be installed per the manufacturer's recommendations or as outlined in the plans and/or contract documents. The Type 2 intersection equipment including, the multimode phase selector, intersection Radio/GPS module, associated Radio/GPS cabling, and card rack shall be installed per the manufacturer's recommendations or as outlined in the plans and/or contract documents. All installation requirements of the equipment manufacturer shall be followed unless otherwise directed by the Engineer. All necessary equipment shall be mounted in the cabinet and configured according to the Plans, Contract Documents, and manufacturer's recommendations. The completed installation shall present a neat and positive appearance and shall not in any way interfere with the proper operation of the traffic signal system installation of which it is part.

907-639.04--Method of Measurement. Railroad Signal Preemption, Type 1 Optical Detector, Multimode Phase Selector, and Type 2 Radio/GPS Module will be measured per each. Type 1 Optical Detector Cable and Type 2 Radio/GPS Cable will be measured by the linear foot, which measurement will be computed horizontally and vertically along the pole, conduit or messenger cable which the electric cable is placed, from center to center of the several installations comprising the circuits. No extra length will be allowed within conduit for vertical changes in elevation of the conduit. No extra length will be allowed for cable inside signal heads, drip loops, or sag in aerial supported cable. The terminals for the measurements of lengths will be considered specifically as the center of the pull boxes, poles, signal heads or controller cabinets.

Confirmations Light and Rotating Beacon will be measured per each.

907-639.05--Basis of Payment. Railroad Signal Preemption, Type 1 Optical Detector, Multimode Phase Selector, Type 2 Radio/GPS Module, Type 1 Optical Detector Cable, and Type 2 Radio/GPS Cable, measured as prescribed above, will be paid for at the contract price per each or linear foot (as shown below), which price shall be full compensation for coordinating and accommodating railroad requirements, providing hardware, sealing; testing, cabling, connections, documentation, configuration, flagger, training, materials, labor, tools, equipment, and all other incidentals necessary to complete the work and provide a fully functional preemption system.

Confirmations Light and Rotating Beacon, measured as prescribed above, will be paid for at the contract unit price per each, which price shall be full compensation for furnishing, installing, connection and testing all materials; for pulling through conduit, mast arms and poles for attaching to messenger cable; for final cleanup; and for all labor, equipment, tools and incidentals necessary to complete the work.

Payment will be made under:

907-639-A: Railroad Signal Preemption	- per each
907-639-B: Type 1 Optical Detector	- per each
907-639-C: Type 1 Optical Detector Cable	- per linear foot
907-639-D: Multimode Phase Selector	- per each
907-639-E: Type 2 Radio/GPS Module	- per each
907-639-F: Type 2 Radio/GPS Cable	- per linear foot
907-639-G: Confirmation Light	- per each
907-639-H: Rotating Beacon	- per each

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-640-1

CODE: (IS)

DATE: 11/15/2017

SUBJECT: Inductive Loop Vehicle Detection Systems

Section 640, Inductive Loop Vehicle Detection Systems, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-640.01--Description. Delete the first sentence of Subsection 640.01 on page 578, and substitute the following.

This work consists of furnishing all component materials required to form complete independent vehicle inductive loop detection systems as specified herein.

907-640.02--Materials.

907-640.02.2.4.1--Tuning. Delete the sentence in Subsection 640.02.2.4.1 on page 579, and substitute the following.

The amplifier card shall tune automatically upon the application of power in accordance with NEMA TS 2-2003 v02.06 Section 6.5.2.20.

907-640.02.2.4.2--Modes of Operation. Delete the sentence in Subsection 640.02.2.4.2 on page 579, and substitute the following.

Each amplifier card channel shall be capable of functioning in both presence and pulse mode in accordance with NEMA TS 2-2003 v02.06 Section 6.5.2.17.

907-640.02.2.4.3--Sensitivity Control. Delete the sentence in Subsection 640.02.2.4.3 on page 579, and substitute the following.

Each channel of the amplifier card shall meet NEMA TS 2-2003 v02.06 Section 6.5.2.15 requirements for sensitivity controls.

907-640.02.2.4.4--Crosstalk Avoidance. Delete the sentence in Subsection 640.02.2.4.4 on page 579, and substitute the following.

The amplifier card shall be capable of preventing crosstalk between channels of the same unit in accordance with NEMA TS 2-2003 v02.06 Section 6.5.2.23.

907-640.02.2.4.5--Outputs. Delete the sentence in Subsection 640.02.2.4.5 on page 579, and substitute the following.

Each output device shall conform to NEMA TS 2-2003 v02.06 Section 6.5.2.26 requirements.

907-640.02.2.4.6--Controls and Indicators. Delete the sentence in Subsection 640.02.2.4.6 on page 580, and substitute the following.

All amplifier card controls and indicators shall be in accordance with NEMA TS 2-2003 v02.06 Section 6.5.2.25.

907-640.02.2.4.7--Self-Tracking. Delete the sentence in Subsection 640.02.2.4.7 on page 580, and substitute the following.

The amplifier card shall automatically accommodate after- tuning changes in the loop/lead-in in accordance with NEMA TS 2-2003 v02.06 Section 6.5.2.21.

907-640.02.2.4.10--Loop Detector Amplifier Tests. Delete the sentence in Subsection 640.02.2.4.10 on page 580, and substitute the following.

Each amplifier card shall conform to the performance requirements set forth in NEMA TS 2-2003 v02.06 Section 2.8.

907-640.02.2.4.12--Delay and Extension Timing. Delete the last two sentences in Subsection 640.02.2.4.12 on page 580, and substitute the following.

Detector card delay timing capabilities shall be provided in accordance with NEMA TS 2-2003 v02.06 Section 6.5.2.24.1. Detector card extension timing capabilities shall be provided in accordance with NEMA TS 2-2003 v02.06 Section 6.5.2.24.2.

907-640.03.1.2--Saw Cuts. Delete the second sentence of the second paragraph of Subsection 640.03.1.2 on page 581, and substitute the following.

Where lead-in cable is required to pass through the curbside, it shall be installed in ¾-inch PVC or rigid steel conduit.

907-640.04--Method of Measurement. Delete the first paragraph of Subsection 640.04 on page 583.

Vehicle Loop Assembly and Shielded Cable will be measured by the linear foot computed horizontally along the saw slot, regardless of number of turns, in which the loop wire or shielded cable is installed and will include the loop lead-in to the pull box.

907-640.05--Basis of Payment. Delete the pay items listed on pages 583 and 584, and substitute the following.

907-640-A: Vehicle Loop Assembly - per each

907-640-B: Shielded Cable, AWG __, __ Conductor - per linear foot

907-640-C: Loop Detector Amplifier * - per each

* Additional information may be indicated

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-643-1

CODE: (IS)

DATE: 11/15/2017

SUBJECT: Video Vehicle Detection

Section 643, Video Vehicle Detection System, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

Delete Section 643 on pages 601 thru 628, and substitute the following.

SECTION 907-643 - VIDEO VEHICLE DETECTION

907-643.01--Description. This section specifies the minimum requirements for Video Vehicle Detection (VVD) and Multi-Sensor Vehicle Detection (MSVD) furnished and installed in accordance with the design(s) for the location(s) designated on the project plans, in any related notice to bidders, or as directed. The work shall consist of providing all labor, materials, equipment, and incidentals necessary to furnish, install, test, and operate VVD and/or MSVD.

Type 1 Video Vehicle Detection will provide presence or pulse detection of vehicles, bicycles, and pedestrians for Traffic Signal Controller inputs. There are two variations of Type 1 Video Vehicle Detection: Type 1A – camera with independent video detection processor, Type 1B – a single integrated camera with video detection processor. The work shall consist of providing all labor, materials, equipment, and incidentals necessary to furnish, install, and test the Video Vehicle Detection equipment, complete and ready for service.

Type 2 Video Vehicle Detection will provide presence or pulse detection of vehicles, bicycles, and pedestrians for Traffic Signal Controller inputs. Type 2 Video Vehicle Detection shall be designed to be span wire mounted. The work shall consist of providing all labor, materials, equipment, and incidentals necessary to furnish, install, and test the Video Vehicle Detection equipment, complete and ready for service.

The Multi-Sensor Vehicle Detection (MSVD) will provide detection of vehicles on a roadway using a Multi-Sensor Detection for Traffic Signal Controller inputs. The Multi-Sensor shall utilize two (2) different sensors of different technologies, video imaging and radar, to detect and track vehicles. The module shall process information from both video imaging and radar sensors simultaneously in real-time. The work shall consist of providing all labor, materials, equipment, and incidentals necessary to furnish, install, and test the Multi-Sensor Vehicle Detection equipment, complete and ready for service.

907-643.02--Materials.

907-643.02.1--Materials Type 1 Video Vehicle Detection. The Type 1 Video Vehicle Detection shall consist of power supply, video camera, mounting brackets, and lightning protection as

recommended by the manufacturer, video detection processors/extension modules capable of processing the number of camera and phase combination video sources shown on the project plans or in the purchase order. In addition, Type 1B Video Vehicle Detector shall consist of a single integrated camera with video detection processor, a cabinet interface which mounts in a standard detector rack or as a standalone shelf mount unit.

907-643.02.1.1--Functional Requirements for Type 1 Video Vehicle Detection. The Type 1 Video Vehicle Detection configuration shall utilize video processors with one or more video inputs and one (1) video output, responding to specific site applications, camera locations and detection zones shown on the project plans. Video processors or interface modules shall be provided which plug directly into NEMA TS 1 and TS 2 detector racks without adapters. Extension modules which allow detection zones from one camera to be routed to other card slots shall also be provided if required. The system shall be Ethernet compatible with an RJ45 port. The Type 1 Video Vehicle Detection shall be able to detect vehicles and bicycles in multiple lanes using only the video image.

907-643.02.1.2--Interface Type 1 Video Vehicle Detection. The following interfaces shall be provided:

- 1) Video inputs that accept RS 170 (NTSC) signals from an external video source. A BNC type interface connector shall be provided and located on the front of the video processing unit.
- 2) A LED indicator to indicate the presence of the video signal. The LED shall illuminate upon valid video synchronization and turn off when the presence of a valid video signal is removed.
- 3) One (1) video output per processor module. The video output shall be RS 170 compliant and shall pass through the input video signal. The video output shall have the capability to show text and graphical overlays to aid in system setup. The overlays shall display real-time actuation of detection zones upon vehicle detection or presence. Control of the overlays and video switching shall also be provided through the serial communications port. The video output interface connector shall be BNC or RCA type. If RCA connector is used, an RCA to BNC adapter shall be provided.
- 4) A serial communications port on the front panel. The serial port shall be compliant with RS-232 or RS-422 electrical interfaces and shall use a DB9 or RJ45 type connector. The serial communications interface shall allow the user to remotely configure the system and/or to extract calculated vehicle/roadway information.
- 5) Interface software. The interface protocol shall support multi-drop or point-to-multipoint communications. Each video detection sensor shall have the capability to be individually IP addressable either built in or with third party video server units.
- 6) Open collector contact closure outputs meeting NEMA TS-2 requirements. The open collector output will be used for vehicle detection indicators as well as discrete outputs for alarm conditions.
- 7) LED status indicators on the front panel. The LED's shall illuminate when a contact closure output occurs. Provide one output LED for each contact closure output.
- 8) A mouse compatible port (PS-2 or USB) on the front panel of the video processing unit. The mouse port shall be used as part of the system setup and configuration.

- 9) A Cabinet Interface shall be provided that is specifically designed to mount in a standard NEMA TS 1 and TS 2 detector rack without adapters or rewiring, or as a stand-alone shelf mount unit. The Interface shall operate in a temperature range from -31°F to +165°F and a humidity range from 0% to 95% relative humidity. The Cabinet Interface shall be powered by 100v to 240v AC, 50 or 60Hz. The front of the Interface shall include LED detection indications for each channel of detection. One BNC video output and detector test switches that allow the user to place calls on each channel

907-643.02.1.3--Functionality Type 1 Video Vehicle Detection. Detection zones shall be programmed via an on-board menu displayed on a video monitor and a pointing device connected to the video detection processor. The menu shall facilitate placement of detection zones and setting of zone parameters or to view system parameters. The video detection processor shall detect vehicles, bicycles, and pedestrians in real time as they travel across each detection zone. The video detection processor shall have an RS-232 (DB9 or RJ45) port for communications with an external computer. The video detection processor port shall be multi-drop capable.

It shall be possible to upload and save all configuration data including loop placement and save the file on a computer. It shall be possible to download a configuration file from a computer to the detection device.

The video detection processor shall accept new detection patterns from an external computer through the RS-232 port when the external computer uses the correct communications protocol for downloading detection patterns.

A Windows™ based software designed for local and remote connection shall be provided for video capture, real-time detection indication and detection zone modification capability. The video detection processor shall send its detection patterns to an external computer through the RS-232 port.

The video detection processor shall default to a safe condition, such as minimum recall, fixed recall or a constant call on each active detection channel, in the event of unacceptable interference with the video signal, low visibility conditions, or power failure.

The system shall be capable of automatically detecting a low-visibility condition such as fog and respond by placing all defined detection zones in a constant call mode. The system shall automatically revert to normal detection mode when the low-visibility condition no longer exists.

907-643.02.1.4--Detection. Type 1A shall have a minimum of 24 detection zones per camera input shall be possible, and each detection zone shall be capable of being sized to suit the site and the desired vehicle detection area. Type 1B shall have a minimum of 8 detection zones per camera input shall be possible, and each detection zone shall be capable of being sized to suit the site and the desired vehicle detection area.

A single detection zone shall be able to replace multiple inductive loops and the detection zones shall be OR'ed as the default or may be AND'ed together to indicate vehicle presence on a single phase of traffic movement.

Placement of detection zones shall be done by using only a pointing device, and a Graphical Interface built into the video detection processor and displayed on a video monitor, to draw the detection zones on the video image from each video camera. Detection zones created in this manner shall be compatible with the PC-based software provided with the system.

The video detection processor shall support bicycle type zones where the zone can differentiate between motorized vehicles and bicycles, producing a call for one but not the other. Bicycle zones shall only output when a bicycle is detected. The video detection processor shall provide the ability to assign a separate output channel for bicycle zones to allow traffic controllers to implement special bicycle timing for applications where the traffic controller has separate bicycle detection inputs. Bicycle zones shall have the ability to have extensions assigned to individual bicycle zones for applications where the traffic controller does not have bicycle specific detection inputs.

For Type 1A, six (6) additional count zones for bicycles shall be provided to accumulate bicycle counts at user specified intervals.

The video detection processor's memory shall be non-volatile to prevent data loss during power outages.

When a vehicle is detected crossing a detection zone, the corners or entire zone of the detection zone shall flash/change color on the video overlay display to confirm the detection of the vehicle. It shall be possible to record the operation of the unit in real time with the detection zones operating.

Detection shall be at least 98% accurate in all weather conditions, with slight degradation acceptable under adverse weather conditions (e.g. rain, snow, or fog) which reduce visibility.

The video detection processor shall maintain normal operation of existing detection zones when one (1) zone is being added or modified.

The video detection processor shall output a constant call on any detector channel corresponding to a zone being modified and shall resume normal operation upon completion.

Detection zones shall be directional to reduce false detections from objects traveling in directions other than the desired direction of travel in the detection area.

The video detection processor shall process the video input from each camera using a microprocessor at 30 frames per second at one volt, peak to peak, 75 ohms, or EIA 170 NTSC video standard.

The video detection processor shall output minimum recall, fixed recall or constant call for each enabled detector output channel if a loss of video signal occurs. The recall behavior shall be user selectable for each output. The video detection processor shall output a constant call during the background "learning" period.

Detection zone outputs shall be configurable to allow the selection of presence, pulse, extend, and delay outputs. Timing parameters of pulse extend, and delay outputs shall be user definable between 0.1 to 25.0 seconds in increments of 0.1 seconds.

Type 1A shall have up to six (6) detection zones per camera view that have the capability to count the number of vehicles detected, measure classification and speed. The data values shall be internally stored within the processor module for later retrieval through the RS-232 port. The data collection interval shall be user definable in periods of 5, 15, 30, or 60 minutes or by intersection cycle. Real-time data shall be retrieved from the PC-based software provided with the system.

907-643.02.1.5--Camera. Type 1A cameras shall be completely compatible with the video detection processor and shall be certified by the manufacturer to ensure proper system operation.

Type 1B shall be a single integrated camera with built in video detection processor.

The Video Vehicle Detection shall produce accurate detector outputs under all roadway lighting conditions, regardless of time of day. The minimum range of scene luminance over which the camera shall produce a useable video image shall be the minimum range from nighttime to daytime, but not less than the range 0.009 to 930 foot-candles.

The camera shall use a color CCD sensing element with resolution of not less than 470 lines horizontal and 400 lines vertical.

The camera shall include mechanisms to compensate for changing of lighting by using an electronic shutter and/or auto-iris lens.

The camera shall include a variable focal length lens with factory preset focus that requires no field adjustment. Zooming of the camera lens to suit the site geometry by means of a portable interface device designed for that purpose. The horizontal field of view shall be adjustable. Camera configuration shall be customized for each approach based on field site conditions and the project plans.

The camera electronics shall include automatic gain control (AGC) to produce a satisfactory image at night.

The camera shall be housed in a weather-tight sealed enclosure. The housing shall be field rotatable to allow proper alignment between the camera and the traveled road surface.

The camera enclosure shall be equipped with a sunshield. The sunshield shall include a provision for water diversion to prevent water from flowing in the camera's field of view.

The camera enclosure shall include a thermostatically controlled heater to assure proper operation of the lens shutter at low temperatures and prevent moisture condensation on the optical faceplate of the enclosure. The heater shall directly heat the glass lens and require less than five (5) watts over the temperature range.

Power consumption of the camera shall be 15 watts or less under all conditions.

The camera enclosure shall be equipped with separate, weather-tight connections for power and setup video cables at the rear of the enclosure. These connections shall allow diagnostic testing and viewing of video at the camera while the camera is installed on a mast arm or pole using a lens adjustment module furnished under this bid item.

The video signal output by the camera shall in accordance with NTSC standards.

All necessary mounting brackets shall be mounted to pole shafts, mast arms, or other structures to mount cameras as indicated on the project plans. Mounting brackets shall result in a fixed-position mounting. Mounting Brackets shall be included at no additional cost.

907-643.02.1.6--Video Cable. The cable provided shall be as recommended by the manufacturer for optimal video detection performance. The power and video cable may be installed under the same outer jacket. The cable and installation tools shall be approved by the supplier and manufacturer's instructions must be followed to ensure proper connection.

907-643.02.1.7--Power Cable. The cable provided shall be as recommended by the manufacturer for optimal video detection performance.

Camera power cable shall be suitable for installation in conduit and in exposed sunlight environment, and UL listed.

The power and video cable may be installed under the same outer jacket. The cable and installation tools shall be approved by the supplier and manufacturer's instructions must be followed to ensure proper connection.

907-643.02.1.8--Surge Protection. Surge protection devices shall be provided for all new or added video detection devices as recommended by the manufacturer.

Video and/or Power cable shall be protected with an inline surge suppressor as recommended by the manufacturer or a panel mounted surge suppressor as recommended by the manufacturer or approved equal, installed and grounded per manufacturer's recommendations.

907-643.02.1.9--Physical and Environmental Specifications. Physical and Environmental Specifications shall be as follows.

Video Vehicle Detection Processor: The video vehicle detection processor shall operate reliably in a typical roadside traffic cabinet environment. Internal cabinet equipment and a video vehicle detection processor shall be provided that meets the environmental requirements of NEMA TS-2-2003 Section 2. If the processor is located in the sensor, it shall meet the same requirements.

Video Camera Sensor: The operating ambient temperature range shall be -30°F to 140°F. Additionally, a heater shall be included to prevent the formation of ice and condensation in cold weather. The heater shall not interfere with the operation of the video camera sensor electronics,

or cause interference with the video signal.

Vibration: Vibrations shall meet the requirements of NEMA TS 2-2003 Section 2.1.9. Shock: Shock shall meet the requirements of NEMA TS 2-2003 Section 2.1.10.

Acoustic Noise: A video camera sensor and enclosure shall be provided that can withstand 150 dB for 30 minutes continuously, with no reduction in function or accuracy.

907-643.02.2--Materials Type 2 Video Vehicle Detection. The Type 2 Video Vehicle Detection shall be span wire mounted and consist of power supply, video camera, mounting brackets, and lightning protection as recommended by the manufacturer, video detection processors/extension modules capable of processing the number of camera and phase combination video sources shown on the project plans or in the purchase order

907-643.02.2.1--Functional Requirements for Type 2 Video Vehicle Detection. The Type 2 Video Vehicle Detection configuration shall utilize video processors with one or more video inputs and one (1) video output, responding to specific site applications, camera locations and detection zones shown on the project plans. Video processors or interface modules shall be provided which plug directly into NEMA TS 1 and TS 2 detector racks without adapters. Extension modules which allow detection zones from one camera to be routed to other card slots shall also be provided if required. The system shall be Ethernet compatible with an RJ45 port. The Type 2 Video Vehicle Detection shall be able to detect vehicles and bicycles in multiple lanes using only the video image.

907-643.02.2.2--Interface Type 2 Video Vehicle Detection. The following interfaces shall be provided:

- 1) Video inputs that accept RS 170 (NTSC) signals from an external video source. A BNC type interface connector shall be provided and located on the front of the video processing unit.
- 2) A LED indicator to indicate the presence of the video signal. The LED shall illuminate upon valid video synchronization and turn off when the presence of a valid video signal is removed.
- 3) One (1) video output per processor module. The video output shall be RS 170 compliant and shall pass through the input video signal. The video output shall have the capability to show text and graphical overlays to aid in system setup. The overlays shall display real-time actuation of detection zones upon vehicle detection or presence. Control of the overlays and video switching shall also be provided through the serial communications port. The video output interface connector shall be BNC or RCA type. If RCA connector is used, an RCA to BNC adapter shall be provided.
- 4) A serial communications port on the front panel. The serial port shall be compliant with RS-232 or RS-422 electrical interfaces and shall use a DB9 or RJ45 type connector. The serial communications interface shall allow the user to remotely configure the system and/or to extract calculated vehicle/roadway information.
- 5) Interface software. The interface protocol shall support multi-drop or point-to- multipoint communications. Each video detection sensor shall have the capability to be individually IP addressable either built in or with third party video server units.

- 6) Open collector contact closure outputs meeting NEMA TS 2 requirements. The open collector output will be used for vehicle detection indicators as well as discrete outputs for alarm conditions.
- 7) LED status indicators on the front panel. The LED's shall illuminate when a contact closure output occurs. Provide one output LED for each contact closure output.
- 8) A mouse compatible port (PS-2 or USB) on the front panel of the video processing unit. The mouse port shall be used as part of the system setup and configuration.
- 9) A Cabinet Interface shall be provided that is specifically designed to mount in a standard NEMA TS 1 and TS 2 detector rack without adapters or rewiring, or as a stand-alone shelf mount unit. The Interface shall operate in a temperature range from -31°F to +165°F and a humidity range from 0% to 95% relative humidity. The Cabinet Interface shall be powered by 100v to 240v AC, 50 or 60Hz. The front of the Interface shall include LED detection indications for each channel of detection. One BNC video output and detector test switches that allow the user to place calls on each channel

907-643.02.2.3--Functionality Type 2 Video Vehicle Detection. Detection zones shall be programmed via an on-board menu displayed on a video monitor and a pointing device connected to the video detection processor. The menu shall facilitate placement of detection zones and setting of zone parameters or to view system parameters. The video detection processor shall detect vehicles, bicycles, and pedestrians in real time as they travel across each detection zone. The video detection processor shall have an RS-232 (DB9 or RJ45) port for communications with an external computer. The video detection processor port shall be multi-drop capable.

It shall be possible to upload and save all configuration data including loop placement and save the file on a computer. It shall be possible to download a configuration file from a computer to the detection device.

The video detection processor shall accept new detection patterns from an external computer through the RS-232 port when the external computer uses the correct communications protocol for downloading detection patterns.

A Windows™ based software designed for local and remote connection shall be provided for video capture, real-time detection indication and detection zone modification capability. The video detection processor shall send its detection patterns to an external computer through the RS-232 port.

The video detection processor shall default to a safe condition, such as minimum recall, fixed recall or a constant call on each active detection channel, in the event of unacceptable interference with the video signal, low visibility conditions, or power failure.

The system shall be capable of automatically detecting a low-visibility condition such as fog and respond by placing all defined detection zones in a constant call mode. The system shall automatically revert to normal detection mode when the low-visibility condition no longer exists.

907-643.02.2.3.1--Functionality for Type 2 Video Vehicle Detection. The Video Detection Processor (VDP) for the Type 2 Video Vehicle Detection shall employ Dynamic Zone

Stabilization to provide motion tracking and compensation for swaying camera sensors mounted on dual or single span wires. The VDP shall include software that discriminately detects the presence of vehicles and bicycles in single or multiple lanes using only the video image. The VDP shall compensate for swaying motions by tracking the position of the stop bar for the approaching vehicle or bicycle movement. The VDP shall compensate for low frequency (cable sag) motion due to temperature changes during the day. The VDP shall compensate for moderate frequency motion induced by winds. The VDP shall compensate for up to ± 5 degrees of tilt from vertical without any adverse detection false calls or dropped calls.

907-643.02.2.4--Detection. Type 2 shall have a minimum of 24 detection zones per camera input shall be possible, and each detection zone shall be capable of being sized to suit the site and the desired vehicle detection area. .

A single detection zone shall be able to replace multiple inductive loops and the detection zones shall be OR'ed as the default or may be AND'ed together to indicate vehicle presence on a single phase of traffic movement.

Placement of detection zones shall be done by using only a pointing device, and a Graphical Interface built into the video detection processor and displayed on a video monitor, to draw the detection zones on the video image from each video camera. Detection zones created in this manner shall be compatible with the PC-based software provided with the system.

The video detection processor shall support bicycle type zones where the zone can differentiate between motorized vehicles and bicycles, producing a call for one but not the other. Bicycle zones shall only output when a bicycle is detected. The video detection processor shall provide the ability to assign a separate output channel for bicycle zones to allow traffic controllers to implement special bicycle timing for applications where the traffic controller has separate bicycle detection inputs. Bicycle zones shall have the ability to have extensions assigned to individual bicycle ones for applications where the traffic controller does not have bicycle specific detection inputs.

Six (6) additional count zones for bicycles shall be provided to accumulate bicycle counts at user specified intervals.

The video detection processor's memory shall be non-volatile to prevent data loss during power outages.

When a vehicle is detected crossing a detection zone, the corners or entire zone of the detection zone shall flash/change color on the video overlay display to confirm the detection of the vehicle. It shall be possible to record the operation of the unit in real time with the detection zones operating.

Detection shall be at least 98% accurate in all weather conditions, with slight degradation acceptable under adverse weather conditions (e.g. rain, snow, or fog) which reduce visibility.

The video detection processor shall maintain normal operation of existing detection zones when one (1) zone is being added or modified.

The video detection processor shall output a constant call on any detector channel corresponding to a zone being modified and shall resume normal operation upon completion.

Detection zones shall be directional to reduce false detections from objects traveling in directions other than the desired direction of travel in the detection area.

The video detection processor shall process the video input from each camera using a microprocessor at 30 frames per second at one volt, peak to peak, 75 ohms, or EIA 170 NTSC video standard.

The video detection processor shall output minimum recall, fixed recall or constant call for each enabled detector output channel if a loss of video signal occurs. The recall behavior shall be user selectable for each output. The video detection processor shall output a constant call during the background "learning" period.

Detection zone outputs shall be configurable to allow the selection of presence, pulse, extend, and delay outputs. Timing parameters of pulse extend, and delay outputs shall be user definable between 0.1 to 25.0 seconds in increments of 0.1 seconds.

The processor shall have up to six (6) detection zones per camera view shall have the capability to count the number of vehicles detected, measure classification and speed. The data values shall be internally stored within the processor module for later retrieval through the RS-232 port. The data collection interval shall be user definable in periods of 5, 15, 30, or 60 minutes or by intersection cycle. Real-time data shall be retrieved from the PC-based software provided with the system.

907-643.02.2.5--Camera. Type 2 cameras shall be completely compatible with the video detection processor and shall be certified by the manufacturer to ensure proper system operation.

The Video Vehicle Detection shall produce accurate detector outputs under all roadway lighting conditions, regardless of time of day. The minimum range of scene luminance over which the camera shall produce a useable video image shall be the minimum range from nighttime to daytime, but not less than the range 0.009 to 930 foot-candles.

The camera shall use a color CCD sensing element with resolution of not less than 470 lines horizontal and 400 lines vertical.

The camera shall include mechanisms to compensate for changing of lighting by using an electronic shutter and/or auto-iris lens.

The camera shall include a variable focal length lens with factory preset focus that requires no field adjustment. Zooming of the camera lens to suit the site geometry by means of a portable interface device designed for that purpose. The horizontal field of view shall be adjustable. Camera configuration shall be customized for each approach based on field site conditions and the project plans.

The camera electronics shall include automatic gain control (AGC) to produce a satisfactory image at night.

The camera shall be housed in a weather-tight sealed enclosure. The housing shall be field rotatable to allow proper alignment between the camera and the traveled road surface.

The camera enclosure shall be equipped with a sunshield. The sunshield shall include a provision for water diversion to prevent water from flowing in the camera's field of view.

The camera enclosure shall include a thermostatically controlled heater to assure proper operation of the lens shutter at low temperatures and prevent moisture condensation on the optical faceplate of the enclosure. The heater shall directly heat the glass lens and require less than five (5) watts over the temperature range.

Power consumption of the camera shall be 15 watts or less under all conditions.

The camera enclosure shall be equipped with separate, weather-tight connections for power and setup video cables at the rear of the enclosure. These connections shall allow diagnostic testing and viewing of video at the camera while the camera is installed on a mast arm or pole using a lens adjustment module furnished under this bid item.

The video signal output by the camera shall in accordance with NTSC standards.

All necessary mounting brackets shall be mounted to pole shafts, mast arms, or other structures to mount cameras as indicated on the project plans. Mounting brackets shall result in a fixed-position mounting. Mounting Brackets shall be included at no additional cost.

907-643.02.2.6--Video Cable. The cable provided shall be as recommended by the manufacturer for optimal video detection performance. The power and video cable may be installed under the same outer jacket. The cable and installation tools shall be approved by the supplier and manufacturer's instructions must be followed to ensure proper connection.

907-643.02.2.7--Power Cable. The cable provided shall be as recommended by the manufacturer for optimal video detection performance.

Camera power cable shall be suitable for installation in conduit and in exposed sunlight environment, and UL listed.

The power and video cable may be installed under the same outer jacket. The cable and installation tools shall be approved by the supplier and manufacturer's instructions must be followed to ensure proper connection.

907-643.02.2.8--Surge Protection. Surge protection devices shall be provided for all new or added video detection devices as recommended by the manufacturer.

Video and/or Power cable shall be protected with an inline surge suppressor as recommended by the manufacturer or a panel mounted surge suppressor as recommended by the manufacturer or approved equal, installed and grounded per manufacturer's recommendations.

907-643.02.2.9--Physical and Environmental Specifications. Physical and Environmental Specifications shall be as follows.

Video Vehicle Detection Processor: The video vehicle detection processor shall operate reliably in a typical roadside traffic cabinet environment. Internal cabinet equipment and a video vehicle detection processor shall be provided that meets the environmental requirements of NEMA TS 2-2003 Section 2. If the processor is located in the sensor, it shall meet the same requirements.

Video Camera Sensor: The operating ambient temperature range shall be -30°F to 140°F. Additionally, a heater shall be included to prevent the formation of ice and condensation in cold weather. Do not allow the heater to interfere with the operation of the video camera sensor electronics, or cause interference with the video signal.

Vibration: Vibrations shall meet the requirements of NEMA TS 2-2003 section 2.1.9. **Shock:** Shock shall meet the requirements of NEMA TS 2-2003 section 2.1.10.

Acoustic Noise: A video camera sensor and enclosure shall be provided that can withstand 150 dB for 30 minutes continuously, with no reduction in function or accuracy.

907-643.02.3--Materials Multi-Sensor Vehicle Detection.

907-643.02.3.1--General. The Multi-Sensor Vehicle Detector shall utilize two (2) different sensors of different technologies, video imaging and radar, to detect and track licensed and unlicensed vehicles at distances up to 600 feet. The detector shall fuse vehicle information from the two sensors to provide highly accurate and precise detection for special or advanced applications.

The Multi-Sensor Vehicle Detector shall use a primary detector rack mounted processor to interface with the traffic control cabinet. The module shall process information from both video imaging and radar sensors simultaneously in real-time.

907-643.02.3.2--Detector Configuration. The proposed MSVD shall be available in various configurations to allow maximum deployment flexibility. Each configuration shall have an identical user interface for system setup and configuration. The communications protocol to each configuration shall be identical and shall be hardware platform independent.

The detector shall include software that detects vehicles in multiple lanes. Video imaging detection zones shall be defined using only an on-board video menu and a pointing device to place the zones on a video image. Up to 24 video detection zones per camera view shall be available. Two (2) additional trigger zones for the radar sensor shall be available and be configurable by using the same system setup menu on the DP. A separate computer shall not be required to program the detection zones. A pre-programmed setup tool is required to align and input radar

information and set the camera field of view (zoom and focus).

907-643.02.3.3--Multi-Sensor Vehicle Detection Hardware. The MSVD hardware shall consist of the following four (4) elements:

- 1) Video Imaging Camera Sensor
- 2) Radar Sensor
- 3) Sensor Data Combiner
- 4) Detection Processor

907-643.02.3.3.1--Video Imaging Camera Sensor. The video imaging camera sensor shall meet the following minimum requirements:

- To accommodate deployment flexibility, the MSVD camera sensor shall be compatible with the Data Processor platforms. The MSVD camera sensor shall be supplied by the MSVD manufacturer.
- The advanced camera enclosure shall utilize technology for the heating element of the front glass. The transparent coating shall not impact the visual acuity and shall be close to optically clear.
- Cable terminations at the data combiner for video and power shall not require crimping or special tools.
- The camera sensor shall allow the user to set the focus and field of view via Wi-Fi connectivity.
- The camera shall produce a useable video image of vehicles under all roadway lighting conditions, regardless of time of day. The minimum range of scene luminance over which the camera shall produce a useable video image shall be the minimum range from nighttime to daytime, but not less than the range 1.0 lux to 10,000 lux.
- The camera electronics shall include automatic gain control (AGC) to produce a satisfactory image at night.
- The imager luminance signal to noise ratio (S/N) shall be more than 50 dB with the automatic gain control (AGC) disabled.
- The imager shall employ three (3) dimensional dynamic noise reduction (3D-DNR) to remove unwanted image noise.
- The camera image shall employ wide dynamic range (WDR) technology to compensate for wide dynamic outdoor lighting conditions. The dynamic range shall be greater than 100 dB.
- The camera shall be digital signal processor (DSP) based and shall use a CCD sensing element and shall output color video with resolution of not less than 550 TV lines.
- The camera sensor shall include an electronic shutter control based upon average scene luminance and shall be equipped with an auto-iris lens that operates in tandem with the electronic shutter. The electronic shutter shall operate between the range of 1/1 to 1/10,000th second.
- The camera sensor shall utilize automatic white balance.
- The camera sensor shall include a variable focal length lens with variable focus that can be adjusted, without opening up the camera housing, to suit the site geometry by means of a portable interface device designed for that purpose and manufactured by the detection system supplier.

- The horizontal field of view shall be adjustable. This camera configuration may be used for the majority of detection approaches in order to minimize the setup time and spares required by the user. The lens shall be a minimum 10X zoom lens with a variable focal length.
- The lens shall also have an auto-focus feature with a manual override to facilitate ease of setup.
- The camera shall incorporate the use of preset positioning that store zoom and focus positioning information. The camera shall have the capability to recall the previously stored preset upon application of power.
- The camera shall be housed in a weather-tight sealed enclosure conforming to IP-67 specifications. The housing shall allow the camera to be rotated to allow proper alignment between the camera and the traveled road surface.
- The camera enclosure shall be equipped with a sunshield. The sunshield shall include a provision for water diversion to prevent water from flowing in the camera's field of view.
- The camera enclosure shall be designed so that the pan, tilt and rotation of the camera assembly can be accomplished independently without affecting the other settings.
- The camera enclosure shall include a proportionally controlled heater design that maximizes heat transfer to the lens. The output power of the heater shall vary with temperature, to assure proper operation of the lens functions at low temperatures and prevent moisture condensation on the optical faceplate of the enclosure.
- The glass face on the front of the enclosure shall have an anti-reflective coating to minimize light and image reflections.
- When mounted outdoors in the enclosure, the camera shall operate in a temperature range from -29°F to +165°F and a humidity range from 0% RH to 100% RH.
- Measurement of satisfactory video shall be based upon DP system operation.
- The camera sensor shall acquire its power from the sensor data combiner.
- Recommended camera placement height shall be 18 to 33 feet above the roadway, and over the traveled way on which vehicles are to be detected. For optimum detection the camera should be centered above the traveled roadway. The camera shall view approaching vehicles at a distance not to exceed 350 feet for reliable detection (height to distance ratio of 10:100). Camera placement and field of view (FOV) shall be unobstructed and as noted in the installation documentation provided by the supplier.
- The video signal shall be fully isolated from the camera enclosure and power cabling.
- A weather-proof protective cover shall be provided to protect all terminations at the camera.

907-643.02.3.3.2--Radar Sensor. The radar sensor shall meet the following minimum requirements:

- The radar sensor shall operate in the 24 GHz frequency band.
- The radar detection range shall be 600 feet minimum, $\pm 5\%$.
- The radar sensor shall be able to track up to 20 independent objects simultaneously.
- Object speed detection shall be within a range of zero (0) to 150 mph ± 1.0 mph.
- The radar sensor shall be able to detect vehicles in one (1) to four (4) traffic lanes.
- The radar sensor shall be housed in a weather-tight sealed enclosure conforming to IP-67 specifications. The housing shall allow the radar to be adjusted to allow proper alignment between the sensor and the traveled road surface.

- When mounted outdoors in the enclosure, the radar shall operate in a temperature range from -29°F to +165°F and a humidity range from 0% RH to 100% RH.
- The radar sensor shall communicate with the sensor data combiner.
- The radar sensor shall acquire its power from the sensor data combiner.
- Data and power cables between the radar sensor and sensor data combiner shall be fully isolated from the sensor enclosure.

907-643.02.3.3.3--Multi-Sensor Vehicle Detection Assembly. Multi-Sensor Vehicle Detection Assembly shall meet the following requirements:

- Both camera and radar sensors shall be housed in an overall, single enclosure assembly.
- The maximum power consumption for the Multi-Sensor Vehicle Detection Assembly shall be less than ten (10) watts typical, 20 watts peak.

907-643.02.3.3.4--Sensor Data Combiner. The sensor data combiner (if required) shall meet the following minimum requirements:

- A sensor data combiner that combines sensor information from both video and radar sensors shall be employed.
- Sensor data combiner shall supply primary power to each sensor unit.
- Sensor data combiner shall facilitate digital communications between the sensor data combiner and each of the sensor units.
- Sensor data combiner shall get its primary power from an AC power source using industry standard 3-conductor cabling.
- Sensor data combiner shall communicate with the detection processor using a single coax cable. Both video imaging and radar data shall use the single coax cable.
- The sensor data combiner shall also employ industry standard Wi-Fi connectivity for remote sensor system setup using a mobile programming device such as anetbook or tablet computer. Video camera and radar sensor shall be able to be configured independently.
- Sensor data signal shall be fully isolated from the mechanical enclosure and power cabling.
- Cable terminations at the sensor data combiner shall not require crimping tools.
- The Sensor Data Combiner shall be housed in a weather-tight sealed enclosure conforming to IP-67 specifications.

907-643.02.3.3.5--Detection Processor. The detection processor shall meet the following minimum requirements:

- Each sensor input shall accept RS170 (NTSC) or CCIR (PAL) signals from an external video source. The interface connector shall be BNC type and shall be located on the front of the processing unit. The sensor input shall have the capability to be terminated into 75-ohms or high impedance (Hi-Z) using dip switches or software control from the user menu. The sensor input shall also facilitate the data from the radar sensor.
- A LED indicator shall be provided to indicate the presence of the sensor signal. The LED shall illuminate upon valid sensor synchronization and turn off when the presence of a valid

sensor signal is removed.

- One (1) video output shall be provided. The video output shall be RS170 or CCIR compliant and shall pass through the input video signal. For multi-channel video input configurations, a momentary push-button shall be provided on the front panel to cycle through each input video channel. In the absence of a valid sensor signal, the channel shall be skipped and the next valid sensor signal shall be switched. The real time video output shall have the capability to show text and graphical overlays to aid in system setup. The video output interface connector shall be positive locking BNC type. Friction type (e.g. RCA type) connectors shall not be allowed.
- A communications port shall be provided on the front panel. The communications interface shall allow the user to remotely configure the system and/or to extract calculated vehicle/roadway information. The interface protocol shall be documented or interface software shall be provided. Each MSVD shall have the capability to be addressable. The DP shall support data rates of 1200 bps to 230,400 bps, inclusive.
- Open collector (contact closure) outputs shall be provided. Four (4) open collector outputs shall be provided for the single or dual channel rack-mount configuration. Additionally, the DP shall allow the use of extension modules to provide up to 24 open collector contact closures per camera input. Each open collector output shall be capable of sinking 30 mA at 24 VDC. Open collector outputs will be used for vehicle detection indicators as well as discrete outputs for alarm conditions. The DP outputs shall be compatible with industry standard detector racks assignments.
- Logic inputs such as delay/extend or delay inhibit shall be supported through the appropriate detector rack connector pin or front panel connector in the case of the I/O module. For DPs and extension modules, four (4) inputs shall be supported via detector rack interface. The I/O module shall accommodate eight (8) inputs through a 15-pin "D" connector.
- Detection status LEDs shall be provided on the front panel. The LEDs shall illuminate when a contact closure output occurs. The front panel of the DP shall have detector test switches to allow the user to manually place calls on each DP output channel. The test switch shall be able to place either a constant call or a momentary call depending on the position of the switch.
- A USB mouse port shall be provided on the front panel of the rack mount detection processing unit. The mouse port shall not require special mouse software drivers. The mouse port shall be used as part of system setup and configuration.
- Extension modules (if required) shall be connected to the DP by an 8-wire twisted-pair cable with modular RJ45 connectors. DP and EM communications shall be accommodated by methods using differential signals to reject electrically coupled noise.
- Extension modules (EM) shall be available to eliminate the need of rewiring the detector rack, by enabling the user to plug an extension module into the appropriate slot in the detector rack to provide additional open collector outputs. The extension module shall be available in both two (2) and four (4)-channel configurations. The DP and EM shall be specifically designed to mount in a standard detector rack, using the edge connector to obtain power, provide contact closure outputs and accept logic inputs (e.g. delay/extend). No adapters shall be required to mount the DP or EM in a standard detector rack. Detector rack rewiring shall not be required.
- The DP shall utilize non-volatile memory technology to store on-board firmware and

operational data.

- The DP shall enable the loading of modified or enhanced software through the EIA232 or USB port (using a USB thumb drive) and without modifying the DP hardware.
- The DP and EM shall be powered by 12 or 24 volts DC. DP and EM modules shall automatically compensate for either 12 or 24 VDC operation. DP power consumption shall not exceed 7.5 watts. The EM power consumption shall not exceed three (3) watts.
- The DP shall operate satisfactorily in a temperature range from -40°F to +165°F and a humidity range from zero (0) %RH to 95 %RH, non-condensing as set forth in NEMA specifications.
- A video surge suppresser shall be provided for each sensor input. The surge suppresser shall be appropriately grounded to the cabinet ground rod using AWG 14 minimum.

907-643.02.3.4--Detection Software. The detection software shall meet the following general system functions:

- Detection zones shall be programmed via an on board menu displayed on a video monitor and a pointing device connected to the DP. The menu shall facilitate placement of detection zones and setting of zone parameters or to view system parameters. A separate computer shall not be required for programming detection zones or to view system operation.
- The DP shall store up to three (3) different detection zone patterns in non-volatile memory. The DP can switch to any one of the three (3) different detection patterns within one (1) second of user request via menu selection with the pointing device. Each configuration shall be uniquely labeled and able to be edited by the user for identification. The currently active configuration indicator shall be displayed on the monitor.
- The DP shall detect vehicles in real time as they travel across each detection zone.
- The DP shall accept new detection patterns from an external computer through a communications port when the external computer uses the correct communications protocol for downloading detection patterns. A Windows™ based software designed for local or remote connection and providing video capture, real-time detection indication and detection zone modification capability shall be provided with the system.
- The DP system shall have the capability to automatically switch to any one of the stored configurations based on the time of day which shall be programmable by the user.
- The DP shall send its detection patterns to an external computer through the communications port when requested when the external computer uses the appropriate communications protocol for uploading detection patterns.
- The DP shall default to a safe condition, such as a constant call on each active detection channel, in the event of unacceptable interference or loss of the sensor signal.
- The system shall be capable of automatically detecting a low-visibility condition such as fog and respond by placing all effected detection zones in a constant call mode. A user-selected alarm output shall be active during the low-visibility condition that can be used to modify the controller operation if connected to the appropriate controller input modifier(s). The system shall automatically revert to normal detection mode when the low-visibility condition no longer exists.
- Up to 24 detection zones per camera input shall be supported and each detection zone can be sized to suit the site and the desired vehicle detection region.
- The DP shall support two (2) independent trigger points for radar outputs for dilemma

zone applications.

- The DP shall provide up to 24 open collector output channels per sensor input using one or more extension modules.
- A single detection zone shall be able to replace multiple inductive loops and the detection zones shall be OR'ed as the default or may be AND'ed together to indicate vehicle presence on a single approach of traffic movement.
- Placement of detection zones shall be done by using only a pointing device, and a graphical interface built into the DP and displayed on a video monitor or laptop computer to draw the detection zones on the video image from each video camera.
- When a vehicle is detected within a detection zone, a visual indication of the detection shall activate on the video overlay display to confirm the detection of the vehicle for the zone.
- Detection shall be at least 98% accurate in good weather conditions, with slight degradation possible under adverse weather conditions (e.g. rain, snow, or fog) which reduce visibility. Detection accuracy is dependent upon site geometry, camera placement, camera quality and detection zone location, and these accuracy levels do not include allowances for occlusion or poor video due to camera location or quality.
- The DP shall provide dynamic zone reconfiguration (DZR). DZR enables normal operation of existing detection zones when one zone is being added or modified during the setup process. The new zone configuration shall not go into effect until the configuration is saved by the operator.
- Detection zone setup shall not require site specific information such as latitude and longitude to be entered into the system.
- The DP shall process the video input from each camera at 30 frames per second. Multiple camera processors shall process all video inputs simultaneously.
- The DP shall output a constant call during the background learning period of no more than three (3) minutes.
- Detection zone outputs shall be configurable to allow the selection of presence, pulse, extend, and delay outputs. Timing parameters of pulse, extend, and delay outputs shall be user definable between 0.1 to 25.0 seconds.
- Up to six (6) video detection zones per sensor input shall have the capability to count the number of vehicles detected. The count value shall be internally stored for later retrieval through the communications port.
- In addition to the count type zone, the DP shall be able to calculate and/or acquire average speed and lane occupancy using both video and radar sensors. These values shall be stored in non-volatile memory for later retrieval.
- The DP shall have an "advance" zone type where detection outputs to the traffic controller are compensated for angular occlusion and distance.
- The user shall have the ability to enable or disable the display of the phase information on the video output.
- The DP shall have the capability to change the characteristics of a detection zone based on external inputs such as signal phase. Each detection zone shall be able to switch from one zone type (i.e. presence, extension, pulse, etc.) to another zone type based on the signal state. For example, a zone may be a "count" zone when the phase is green but change to a "presence" zone type when the phase is not green. Another application would be zone type

- of "extension" when the signal phase is green and then "delay" when red.
- The DP shall aid the user in drawing additional detection zones by automatically drawing and placing zones at appropriate locations with only a single click of the mouse. When the user wishes to modify the location of a zone, the DP shall allow the user move a single zone, multiple zones or all zones simultaneously.
 - On-screen zone identifiers shall be modifiable by the user. The user shall be allowed to select channel output assignments, zone type, input status, zone labels or zone numbers to be the identifier.
 - For multiple camera input DPs, the user shall have the ability to enable automatic video output switching. The dwell time for each sensor input shall be user programmable.
 - For the radar sensor zones the output can be triggered by presence of a vehicle only or by presence of a vehicle above a speed defined by the user.

907-643.02.3.5--Multi-Sensor Cable. The cable to be used between the Multi-Sensor Vehicle Detection Assembly and the DP in the traffic cabinet shall be per manufacturer's specifications. This cable shall be suitable for installation in conduit or overhead with appropriate span wire. BNC plug connectors shall be used where applicable. The cable, BNC connector, and crimping tool shall be approved by the supplier of the MSVD, and the manufacturer's instructions must be followed to ensure proper connection.

907-643.02.3.6--Power Cable. The power cabling shall be per manufacturer's specifications. The cabling shall comply with the National Electric Code, as well as local electrical codes.

907-643.03--Construction Requirements. The Construction and testing requirements for Type 1, Type 2, and Multi-Sensor Vehicle Detection are the same.

907-643.03.1--General Requirements. The Contractor shall perform the following:

- 1) Install all sensors, system processors and associated enclosures and equipment at the locations specified in the plans, in any related notice to bidders, per manufacturer's recommendations, or as directed.
- 2) Install all cabinet-mounted equipment in the intersection equipment cabinet or as specified in the plans.
- 3) Cabling from all sensors shall be installed in accordance with the manufacturer's recommendations.
- 4) Make all necessary adjustments and modifications to the total VVD/MSVD prior to requesting inspection for system/device acceptance.
- 5) Mount the sensors as per manufacturer's recommendations or as shown in the plans.
- 6) Mount the sensors so as to view approaching traffic unless otherwise directed.
- 7) Optimize the sensors location and zone of detection as directed by the Engineer, or authorized designee.
- 8) Adjust the sensor zoom lens to match the width of the road/detection area, and minimize lane vehicle occlusion.
- 9) Fasten all other cabinet components, with hex-head or Phillips-head machine screws insulated with nuts (with locking washer or insert) or into tapped and threaded holes. Do not use self-tapping or self-threading fasteners.

- 10) Provide electrical cables for video, communications signaling and power supply between the cabinet and the VVD/MSVD image sensor cameras as recommended by the manufacturer, and as required for a fully functional System.

907-643.03.2--Contractor Training. Installation of the Video Vehicle Detection shall be as recommended by the manufacturer and performed by a Contractor trained and certified by the supplier. Where time does not reasonably permit training of the installing Contractor, a supplier factory representative shall supervise and assist a Contractor during installation of the Video Vehicle Detection.

Installation of the Multi-Sensor Vehicle Detection shall be as recommended by the supplier and performed by a Contractor with factory-certified installers and documented in installation materials provided by the supplier. Proof of factory certification shall be provided.

907-643.03.3--Blank.

907-643.03.4--Warranty. The Video Vehicle Detection shall be warranted to be free of manufacturer defects in materials and workmanship for a period of three (3) years from the date of final acceptance. Equipment covered by the manufacturer's warranties shall have the registration of that component placed in the Department's name prior to final inspection. The Contractor is responsible for ensuring that the vendors and/or manufacturers supplying the components and providing the equipment warranties recognize the Department as the original purchaser and owner/end user of the components from new. During the warranty period, the supplier shall repair or replace with new or refurbished material, at no additional cost to the State, any product containing a warranty defect, provided the product is returned postage-paid by the Department to the supplier's factory or authorized warranty site. Products repaired or replaced under warranty by the supplier shall be returned prepaid by the supplier.

The Multi-Sensor Vehicle Detector shall be warranted to be free of manufacturer defects in materials and workmanship for a period of three years (3) from the date of final acceptance.

During the warranty period, technical support shall be available from the supplier via telephone within four (4) hours of the time a call is made by the Department, and this support shall be available from factory certified personnel. During the warranty period, updates and corrections to Control Unit Software shall be made available to the Department by the supplier at no additional cost.

907-643.03.5--MDOT Employee Training. When called for in the Plans, the Contractor shall submit to the Project Engineer for approval a detailed Training Plan including course agendas, detailed description of functions to be demonstrated and a schedule. The Contractor must also submit the Trainer's qualifications to the Project Engineer for approval prior to scheduling any training. The training must include both classroom style training and hands-on training in the field of the maintenance and troubleshooting procedures required for each component. The training should also consist of a hands-on demonstration of all software configuration and functionality where applicable.

The supplier of the detection system shall, at a minimum, provide a 16-hour operations and maintenance training class with suitable documentation for up to eight (8) persons selected by the Department. The operations and maintenance class shall be scheduled at a mutually acceptable time and location.

907-643.03.6--Maintenance and Technical Support. The supplier shall maintain an adequate inventory of parts to support maintenance and repair of the detection system. Spare parts shall be available for delivery within 30 days of placement of an acceptable order at the supplier's then current pricing and terms of sale of said spare parts.

The suppliers shall maintain an ongoing program of technical support for the detection system. This technical support shall be available via telephone or via personnel sent to the installation site upon placement of an acceptable order at the supplier's then current pricing and terms of sale of said technical support services.

The installation or training support shall be provided by a factory-authorized representative and shall be a minimum IMSA-Level II Certified Traffic Signal Technician.

All product documentation shall be written in the English language.

907-643.04--Method of Measurement. Video Vehicle Detection Sensor of the type specified will be measured as a unit per each.

Video Vehicle Detection Cable and/or Power Cable will be measured by the linear foot, measured horizontally along the conduit, messenger cable or mast arm and vertically along the pole.

Video Vehicle Detection Training will be measured as a lump sum after the completion of all training.

Multi-Sensor Vehicle Detection of the type specified will be measured as a unit per each.

Multi-Sensor Detection Cable and/or Power Cable will be measured by the linear foot, measured horizontally along the conduit, messenger cable or mast arm and vertically along the pole.

907-643.05--Basis of Payment. Video Vehicle Detection Sensor, measured as prescribed above, will be paid for at the contract unit price per each, which price shall be full compensation for installation, system integration, documentation, system software, and testing of a complete video detection sensor site including video camera sensor/processor, the sensor environmental enclosure, attachment hardware and brackets, completion of all testing requirements and all work, equipment and appurtenances as required to provide and install a complete video detection system. The price bid shall also include all system documentation including: shop drawings, operations and maintenance manuals, wiring diagrams, block diagrams and other materials necessary to document the operation of the Video Vehicle Detection Sensor. This price shall be full compensation for all labor, tools, materials, equipment and incidentals necessary to complete the work.

Video Vehicle Detection Cable and/or Power Cable will be paid at the contract unit price per linear

foot, which price shall be full compensation for all labor, materials, equipment tools, furnishing, installing, system integration, connections, testing, and all incidentals necessary to complete the work.

Video Vehicle Detection Training, measured as prescribed above, will be paid for at the contract unit lump sum price, which price shall be full compensation for all training costs.

Multi-Sensor Vehicle Detection Sensor, measured as prescribed above, will be paid for at the contract unit price per each, which price shall be full compensation for installation, system integration, documentation, and testing of a complete Multi-Sensor Vehicle Detection Sensor site including video imaging camera sensor, radar sensor, sensor data combiner, detection processor, system software, the sensor environment enclosure, attachment hardware and brackets, completion of all testing requirements and all work, equipment and appurtenances as required to provide and install a complete Multi-Sensor Vehicle Detection Sensor. The price bid shall also include all system documentation including: shop drawings, operations and maintenance manuals, wiring diagrams, block diagrams and other materials necessary to document the operation of the multi-sensor detection system. This price shall be full compensation for all labor, tools, materials, equipment and incidentals necessary to complete the work.

Multi-Sensor Detection Cable and/or Power Cable will be paid at the contract unit price per linear foot, which price shall be full compensation for all labor, materials, equipment tools, furnishing, installing, system integration, connections, testing, and all incidentals necessary to complete the work.

Payment will be made under:

907-643-A: Video Vehicle Detection Sensor, Type ____	- per each
907-643-B: Video Vehicle Detection Cable	- linear foot
907-643-C: Video Vehicle Detection Power Cable	- linear foot
907-643-D: Video Vehicle Detection Training	- lump sum
907-643-E: Multi-Sensor Vehicle Detection Sensor	- per each
907-643-F: Multi-Sensor Vehicle Detection Cable	- linear foot
907-643-G: Multi-Sensor Vehicle Detection Power Cable	- linear foot

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-645-1

CODE: (IS)

DATE: 11/15/2017

SUBJECT: Pedestrian Detection Assemblies

Section 645, Pedestrian Detection Assemblies, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-645.02--Materials.

907-645.02.1--Standard Pedestrian Pushbutton Detector. Before the first sentence of the paragraph in Subsection 645.02.1 on page 629, add the following.

The Standard Pedestrian Pushbutton Detector shall meet the latest ADA Compliant Specifications.

907-645.02.1.2--Pushbutton. Delete the second sentence of the paragraph in Subsection 645.02.1.2 on page 629, and substitute the following.

The switch, when activated, shall give an audible (i.e., click) and visual indication of actuation. The visual indication shall remain illuminated until the pedestrian's WALK indication is displayed.

907-645.02.5--Environmental. Delete the paragraph in Subsection 645.02.5 on page 631, and substitute the following.

Ensure equipment performs all required functions during and after being subjected to the environmental testing procedures described in NEMA TS 2, Sections 2.2.7, 2.2.8, and 2.2.9.

907-645.05--Basis of Payment. Add the "907" prefix to the list of pay items on page 631.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-653-1

CODE: (IS)

DATE: 11/15/2017

SUBJECT: Traffic and Street Name Signs

Section 653, Traffic and Street Name Signs, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-653.02--Materials.

907-653.02.1--Reflective Sheeting. Delete the paragraph in Subsection 653.02.1 on page 637, and substitute the following.

Reflective sheeting for traffic and street name signs shall be Type XI retroreflective and of the color as specified in the plans.

907-653.04--Method of Measurement. Delete the sentence in the paragraph of Subsection 653.04 on page 638, and substitute the following.

Traffic sign and street name sign will be measured by the square foot, which measurement being inclusive of aluminum sign blank, applied reflective sheeting, mounting brackets and banding materials and begin inclusive of all materials, work and services necessary for a properly constructed sign.

907-653.05--Basis of Payment. Delete the pay items listed on page 638, and substitute the following.

907-653-A: Traffic Sign - per square foot

907-653-B: Street Name Sign - per square foot

OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DATE: July 15, 2020

SUBJECT: Electrical Distribution System

STANDARD SPECIFICATION

Schedule 40 PVC Conduit

1.0 Product:

PVC Schedule 40 Conduit for application underground, encased or exposed applications in accordance with the National Electrical Code (Article 352).

2.0 Product Requirements:

Conduit shall be schedule 40, rated for use with 90° C conductors, ETL Listed to UL 651 or approved equal. Material shall comply to NEMA Specification TC-2 (Conduit), TC-3 (Fittings) and UL 651 (Conduit) and 514b (Fittings).

2.1 Conduit and fittings shall carry a ETL label or printline (Conduit - on each 10 foot length; Fittings – stamped or molded on each fitting).

2.2 Conduit and fittings shall be identified for type and manufacturer and shall be traceable to location of plant and date manufactured. The markings shall be legible and permanent.

2.3 The Conduit shall be made from polyvinyl chloride compound (recognized by ETL) which includes inert modifiers to improve weatherability and heat distortion. Clean rework material, generated by the manufacturer's own conduit production, may be used by the same manufacturer, provided the end products meet the requirements of this specification.

2.4 The conduit and fittings shall be homogeneous plastic material free from visible cracks, holes or foreign inclusions. The conduit bore shall be smooth and free of blisters, nicks or other imperfections which could mar conductors or cables.

2.5 Conduit is generally gray in color, unless otherwise agreed upon by both parties and/or any regulatory or inspection agency involved in specific projects.

3.0 Testing and Acceptance Criteria:

Conduit and fittings shall be tested in accordance with the testing requirements defined in NEMA TC-2, NEMA TC-3 and UL-651 and 514. The acceptance criteria shall be given in the same standards.

3.1 All conduit and fittings shall be solvent cemented in applications in accordance with instructions from the manufacturer.

END OF SECTION

**OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
AFFIDAVIT**

(To be Executed in Duplicate)

State of Mississippi

County of _____

I, _____ (Name of person signing affidavit), individually, and in my capacity as _____ (Title) of _____ (Name of Firm, Partnership, or Corporation) being duly sworn, on oath, do depose and say as follows:

That _____ (Name of Firm, Partnership, or Corporation), Bidder on Project No. _____ in _____ County, Mississippi has not either directly or indirectly entered into any agreement, participated in any collusion; or otherwise taken any action in restraint of free competitive bidding in connection with this contract; nor have any of its officers, partners, employees, or principal owners.

Further, being duly sworn or under penalty of perjury under the laws of the United States and the State of Mississippi; certifies that, except as noted below, the company or any person associated therewith in the capacity of owner, partner, director, manager, auditor, or any position involving the administration of federal funds:

- (a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
- (b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgement rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
- (c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in Item (b) of this subsection; and
- (d) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

Initial here "_____" if exceptions are attached and made a part thereof. Any exceptions shall address to whom it applies, initiating agency and dates of such action.

The Bidder shall provide immediate written notice to the Board of Supervisors and the State Aid Engineer at any time, prior to or after award, that it is known a certification was erroneous when executed or has become erroneous by reason of changed circumstances.

NOTE: Exceptions will not necessarily result in denial of award but will be considered in determining bidder responsibility. Providing false information may result in criminal prosecution or administrative sanctions.

All of the foregoing and attachments (when indicated) are true and correct.

(SEAL)

Signature: _____

Title: _____

Sworn before me this _____ day of _____ 20____

My commission expires _____

Notary Public: _____

NOTE: **FAILURE TO PROPERLY SIGN AND NOTARIZE THIS AFFIDAVIT WILL DISQUALIFY THE BID.**

**OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
AFFIDAVIT**

(To be Executed in Duplicate)

State of Mississippi

County of _____

I, _____ (Name of person signing affidavit), individually, and in my capacity as _____ (Title) of _____ (Name of Firm, Partnership, or Corporation) being duly sworn, on oath, do depose and say as follows:

That _____ (Name of Firm, Partnership, or Corporation), Bidder on Project No. _____ in _____ County, Mississippi has not either directly or indirectly entered into any agreement, participated in any collusion; or otherwise taken any action in restraint of free competitive bidding in connection with this contract; nor have any of its officers, partners, employees, or principal owners.

Further, being duly sworn or under penalty of perjury under the laws of the United States and the State of Mississippi; certifies that, except as noted below, the company or any person associated therewith in the capacity of owner, partner, director, manager, auditor, or any position involving the administration of federal funds:

- (a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
- (b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgement rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
- (c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in Item (b) of this subsection; and
- (d) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

Initial here "_____" if exceptions are attached and made a part thereof. Any exceptions shall address to whom it applies, initiating agency and dates of such action.

The Bidder shall provide immediate written notice to the Board of Supervisors and the State Aid Engineer at any time, prior to or after award, that it is known a certification was erroneous when executed or has become erroneous by reason of changed circumstances.

NOTE: Exceptions will not necessarily result in denial of award but will be considered in determining bidder responsibility. Providing false information may result in criminal prosecution or administrative sanctions.

All of the foregoing and attachments (when indicated) are true and correct.

Signature: _____

(SEAL)

Title: _____

Sworn before me this _____ day of _____ 20____

My commission expires _____

Notary Public: _____

NOTE: **FAILURE TO PROPERLY SIGN AND NOTARIZE THIS AFFIDAVIT WILL DISQUALIFY THE BID.**

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
OFFICE OF STATE AID ROAD CONSTRUCTION

CONTRACTOR EEV CERTIFICATION AND AGREEMENT

Project No: _____ County: _____

By executing this Certification and Agreement, the undersigned verifies its compliance with Senate Bill 2988 from the 2008 Mississippi Legislative Session, "**Mississippi Employment Protection Act**," as published in Laws, 2008 and codified in the Mississippi Code of 1972, as amended, and any rules or regulations promulgated by Office of State Aid Road Construction, Department of Employment Security, State Tax Commission, Secretary of State, and Department of Human Services in accordance with the Mississippi Administrative Procedures Law (Section 25-43-1 et seq., Mississippi Code of 1972, as amended), stating affirmatively that the individual, firm, or corporation which is contracting with the County and the Office of State Aid Road Construction has registered with and is participating in a federal work authorization program* operated by the United States Department of Homeland Security to electronically verify information of newly hired employees pursuant to the Immigration Reform and Control Act of 1986, Pub.L. 99-603, 100 Stat 3359, as amended. The undersigned agrees to inform the Office of State Aid Road Construction if the undersigned is no longer registered or participating in the program.

The undersigned agrees that, should it employ or contract with any subconsultant(s) and/or subcontractor(s) in connection with the performance of this Contract, the undersigned will secure from such subconsultant(s) and/or subcontractor(s) verification of compliance with the **Mississippi Employment Protection Act**. The undersigned further agrees to maintain records of such compliance and provide a copy of each such verification to the Office of State Aid Road Construction, if requested, for the benefit of the County and the Office of State Road Construction or this Contract.

EEV* Company Identification Number [Required]

The undersigned certifies that the above information is complete, true and correct to the best of my knowledge and belief. The undersigned acknowledges that any violation may be subject to the cancellation of the contract, ineligibility for any state or public contract for up to three (3) years, the loss of any license, permit, certificate or other document granted by any agency, department or government entity for the right to do business in Mississippi for up to one (1) year, or both, any and all additional costs incurred because of the contract cancellation or the loss of any license or permit, and may be subject to additional felony prosecution for knowingly or recklessly accepting employment for compensation from an unauthorized alien as defined by 8 U.S.C §1324a(h)(3), said action punishable by imprisonment for not less than one (1) year nor more than five (5) years, a fine of not less than One Thousand Dollars (\$1,000.00) nor more than Ten Thousand Dollars (\$10,000.00), or both, in addition to such prosecution and penalties as provided by Federal law.

BY: _____
Authorized Officer or Agent

Date

Printed Name of Authorized Officer or Agent

Title of Authorized Officer or Agent of Contractor

SWORN TO AND SUBSCRIBED before me on this the _____ day of _____, 20____.

NOTARY PUBLIC

My Commission Expires: _____

* As of the effective date of the Mississippi Employment Protection Act, the applicable federal work authorization program is E-Verify™ operated by the U. S. Citizenship and Immigration Services of the U.S. Department of Homeland Security, in conjunction with the Social Security Administration.

SECTION 902

PROPOSAL SHEET (2-A)

PROJECT NO. DECD-0018(35)BO
FORREST COUNTY, MISSISSIPPI

For the construction of: ROADWAY IMPROVEMENTS on 1.210 mile(s) of county road known as HIGHWAY 49 in Forrest County, Mississippi under
Dept. Of Economic & Comm. Dev. Project No. DECD-0018(35)BO.

I (We) agree to complete the entire project within 300 Working Days.

SPECIAL NOTICE TO BIDDERS

BIDS WILL NOT BE CONSIDERED UNLESS BOTH UNIT PRICES AND ITEM TOTALS ARE ENTERED

Ref. No.	Pay Item No.	Description	Approx. Quantity	Unit	Unit Price		Item Total	
					Dollars	Cents	Dollars	Cents
Roadway Items Items								
1	S-200-A	MOBILIZATION	Lump Sum	LS	XXXXXXXXXXXX	XXXXXXXXXXXX		
2	S-201-A	CLEARING AND GRUBBING	Lump Sum	LS	XXXXXXXXXXXX	XXXXXXXXXXXX		
3	S-202-B	REMOVAL OF DRAINAGE STRUCTURE (ALL SIZES AND DEPTHS)	26.000	EA				
4	S-202-B	REMOVAL OF SIGN INCLUDING POST & FOOTING (ALL TYPES AND SIZES)	63.000	EA				
5	S-202-B	REMOVAL OF TRAFFIC SIGNAL	1.000	EA				
6	S-202-C	REMOVAL OF CONCRETE COMBINATION CURB AND GUTTER	8,795.000	LF				
7	S-202-C	REMOVAL OF FENCE	318.000	LF				
8	S-202-C	REMOVAL OF TRAFFIC STRIPE (ALL TYPES)	7,665.000	LF				
9	S-202-D	REMOVAL OF CONCRETE DRIVEWAYS, ALL DEPTHS	1,966.000	SY				
10	S-202-D	REMOVAL OF LEGEND (ALL TYPES)	14.000	SY				
11	S-202-D	REMOVAL OF PAVEMENT, ALL DEPTHS	18,363.000	SY				
12	S-202-D	REMOVAL OF PAVEMENT, ALL TYPES AND DEPTHS	771.000	SY				
13	S-202-E	REMOVAL OF PIPE (ALL SIZES)	1,001.000	LF				
14	S-203-E1	BORROW EXCAVATION (F.M.E.) (CONTRACTOR FURNISHED) (CLASS 9-8)	9,594.000	CY				
15	S-203-H	EXCESS EXCAVATION (FM)	9,656.000	CY				
16	S-206-A	STRUCTURE EXCAVATION	252.000	CY				
17	S-304-D	CRUSHED STONE (SIZE 610)	5,948.000	TON				
18	S-403-A	HOT MIX ASPHALT, (ST) (9.5MM)	434.000	TON				

SECTION 902
PROPOSAL SHEET (2-B)

PROJECT NO. DECD-0018 (35)BO
FORREST COUNTY, MISSISSIPPI

Ref. No.	Pay Item No.	Description	Approx. Quantity	Unit	Unit Price		Item Total	
					Dollars	Cents	Dollars	Cents
19	S-403-A	HOT MIX ASPHALT, (ST) (9.5MM)	822.000	TON				
20	S-403-A	HOT MIX ASPHALT, (ST) (12.5MM)	621.000	TON				
21	S-403-A	HOT MIX ASPHALT, (ST) (19MM)	2,393.000	TON				
22	S-403-C	HOT MIX ASPHALT, (ST) (19MM), TRENCH WIDENING	17.000	TON				
23	S-403-D	HOT MIX ASPHALT, (HT) (9.5MM), POLYMER MODIFIED	279.000	TON				
24	S-403-D	HOT MIX ASPHALT, (HT) (9.5MM), TRENCH WIDENING, POLYMER MODIFIED	8.000	TON				
25	S-403-D	HOT MIX ASPHALT, (HT) (12.5MM) POLYMER MODIFIED	196.000	TON				
26	S-403-D	HOT MIX ASPHALT, (HT) (19MM), POLYMER MODIFIED	868.000	TON				
27	S-403-D	HOT MIX ASPHALT, (HT) (19MM), TRENCH WIDENING, POLYMER MODIFIED	23.000	TON				
28	S-406-A	COLD MILLING OF BITUMINOUS PAVEMENT, ALL DEPTHS	3,146.000	SY				
29	S-413-C	CLEANING AND SEALING CRACKS	3,000.000	LF				
30	S-601-B	CLASS "B" STRUCTURAL CONCRETE, MINOR STRUCTURES	123.000	CY				
31	S-602-A	REINFORCING STEEL	11,182.000	LB				
32	S-603-C-A	18" REINFORCED CONCRETE PIPE, CLASS III, RUBBER GASKET	778.000	LF				
33	S-603-C-A	24" REINFORCED CONCRETE PIPE, CLASS III, RUBBER GASKET	316.000	LF				
34	S-603-C-B	18" REINFORCED CONCRETE PIPE END SECTION	3.000	EA				
35	S-603-C-B	24" REINFORCED CONCRETE PIPE, END SECTION	2.000	EA				
36	S-603-C-D	22"X13" REINFORCED CONCRETE ARCH PIPE, CLASS III	61.000	LF				
37	S-603-C-D	29" X 18" REINFORCED CONCRETE ARCH PIPE, CLASS III	188.000	LF				

SECTION 902
PROPOSAL SHEET (2-C)

PROJECT NO. DECD-0018 (35)BO
FORREST COUNTY, MISSISSIPPI

Ref. No.	Pay Item No.	Description	Approx. Quantity	Unit	Unit Price		Item Total	
					Dollars	Cents	Dollars	Cents
38	S-603-PVC	10" CORRUGATED POLY VINYL CHLORIDE PIPE	58.000	LF				
39	S-603-PVC	18" CORRUGATED POLY VINYL CHLORIDE PIPE	142.000	LF				
40	S-603-PVC-A	10" PVC INLET	1.000	EA				
41	S-603-PVC-A	18" PVC INLET	5.000	EA				
42	S-603-PVC-B	CORRUGATED POLY VINYL CHLORIDE PIPE FITTINGS	Lump Sum	LS	XXXXXXXXXX	XXXXXXXXXX		
43	S-604-A	CASTINGS	4,456.000	LB				
44	S-604-B	GRATINGS	2,881.000	LB				
45	S-605- O	4" PERFORATED SEWER PIPE FOR UNDERDRAINS (SDR 26)	3,265.000	LF				
46	S-605- P	4" NON-PERFORATED SEWER PIPE FOR UNDERDRAINS (SDR 26)	93.000	LF				
47	S-605- P	6" NON-PERFORATED SEWER PIPE FOR UNDERDRAINS (SDR 26)	36.000	LF				
48	S-605- U	2" NON-PERFORATED PIPE FOR FUTURE ELECTRICAL CONDUIT	400.000	LF				
49	S-605- U	4" NON-PERFORATED PIPE FOR FUTURE IRRIGATION CONDUIT	1,200.000	LF				
50	S-605- X-1	FILTER MATERIAL FOR FILTER BEDS, TYPE B	490.000	CY				
51	S-605-AA	GEOTEXTILE FOR SUBSURFACE DRAINAGE, TYPE III, AOS (0.15-0.43)	1,100.000	SY				
52	S-608-A	CONCRETE SIDEWALK	1,955.000	SY				
53	S-608-B	CONCRETE DRIVEWAY, WITHOUT REINFORCEMENT, 6-INCH THICKNESS	515.000	SY				
54	S-608-C	CONCRETE DRIVEWAY, WITH REINFORCEMENT, 5-INCH THICKNESS	1,819.000	SY				
55	S-609-B	CONCRETE CURB, SPECIAL DESIGN, SLOTTED	1,915.000	LF				
56	S-609-B	CONCRETE CURB, TYPE 1 DOWELED CURB	311.000	LF				

SECTION 902
PROPOSAL SHEET (2-D)

PROJECT NO. DECD-0018 (35)BO
FORREST COUNTY, MISSISSIPPI

Ref. No.	Pay Item No.	Description	Approx. Quantity	Unit	Unit Price		Item Total	
					Dollars	Cents	Dollars	Cents
57	S-609-B	CONCRETE CURB, TYPE 1 HEADER	1,971.000	LF				
58	S-609-C	CONCRETE CURB (INTEGRAL) TYPE 1	194.000	LF				
59	S-609-D	COMBINATION CONCRETE CURB AND GUTTER, TYPE 1 MODIFIED	5,101.000	LF				
60	S-609-D	COMBINATION CONCRETE CURB AND GUTTER, TYPE 2	202.000	LF				
61	S-609-D	COMBINATION CONCRETE CURB AND GUTTER, TYPE 3B MODIFIED	2,620.000	LF				
62	S-613-D	ADJUSTMENT OF FENCE	Lump Sum	LS	XXXXXXXXXXXX	XXXXXXXXXXXX		
63	S-613-D	ADJUSTMENT OF PARKING BUMPERS	Lump Sum	LS	XXXXXXXXXXXX	XXXXXXXXXXXX		
64	S-613-E	ADJUSTMENT OF BICYCLE PARKING	1.000	EA				
65	S-613-E	ADJUSTMENT OF PED. CROSSING SIGN & FLASHING BEACON	1.000	UN				
66	S-613-E	ADJUSTMENT OF TRASH CAN	1.000	EA				
67	S-616-A	CONCRETE ISLAND PAVEMENT, 10" THICKNESS	36.000	SY				
68	S-616-C	CONCRETE ISLAND PAVEMENT STAMPED AND COLORED	393.000	SY				
69	S-618-A	MAINTENANCE OF TRAFFIC PHASE 1	Lump Sum	LS	XXXXXXXXXXXX	XXXXXXXXXXXX		
70	S-618-A	MAINTENANCE OF TRAFFIC PHASE 2	Lump Sum	LS	XXXXXXXXXXXX	XXXXXXXXXXXX		
71	S-618-A	MAINTENANCE OF TRAFFIC PHASE 3	Lump Sum	LS	XXXXXXXXXXXX	XXXXXXXXXXXX		
72	S-618-A	MAINTENANCE OF TRAFFIC PHASE 4	Lump Sum	LS	XXXXXXXXXXXX	XXXXXXXXXXXX		
73	S-618-A	MAINTENANCE OF TRAFFIC PHASE 5	Lump Sum	LS	XXXXXXXXXXXX	XXXXXXXXXXXX		
74	S-618-A	MAINTENANCE OF TRAFFIC PHASE 6	Lump Sum	LS	XXXXXXXXXXXX	XXXXXXXXXXXX		
75	S-618-A	MAINTENANCE OF TRAFFIC PHASE 7	Lump Sum	LS	XXXXXXXXXXXX	XXXXXXXXXXXX		

SECTION 902

PROPOSAL SHEET (2-E)

PROJECT NO. DECD-0018 (35)BO
FORREST COUNTY, MISSISSIPPI

Ref. No.	Pay Item No.	Description	Approx. Quantity	Unit	Unit Price		Item Total	
					Dollars	Cents	Dollars	Cents
76	S-619-E	4" WIDE TEMPORARY TRAFFIC STRIPE	15,500.000	LF				
77	S-619-F	DETAIL TRAFFIC STRIPE	2,382.000	LF				
78	S-621-B	4" WIDE THERMOPLASTIC TRAFFIC STRIPE (CONTINUOUS WHITE) (90 MILS)	0.025	MI				
79	S-621-C	4" WIDE THERMOPLASTIC EDGE STRIPE (CONTINUOUS WHITE) (60 MILS)	0.376	MI				
80	S-621-E-1	4" WIDE THERMOPLASTIC TRAFFIC STRIPE (CONTINUOUS YELLOW) (90 MILS)	472.000	LF				
81	S-621-F	4" WIDE THERMOPLASTIC EDGE STRIPE (CONTINUOUS YELLOW) (90 MILS)	0.261	MI				
82	S-621-G-1	THERMOPLASTIC DETAIL STRIPE (4" EQUIVALENT LENGTH) (WHITE) (90 MILS)	2,352.000	LF				
83	S-621-G-2	THERMOPLASTIC DETAIL STRIPE (4" EQUIVALENT LENGTH) (YELLOW) (90 MILS)	2,316.000	LF				
84	S-621-H-1	THERMOPLASTIC LEGEND (WHITE) (120 MILS)	3,408.000	LF				
85	S-621-H-2	THERMOPLASTIC LEGEND (WHITE) (120 MILS)	1,795.000	SF				
86	S-621-H-2	THERMOPLASTIC LEGEND (WHITE) (120 MILS)	46.000	SF				
87	S-621-H-3	THERMOPLASTIC LEGEND (YELLOW) (60 MILS)	88.000	LF				
88	626-A	6" THERMOPLASTIC TRAFFIC STRIPE SKIP WHITE	0.374	MI				
89	626-B	6" THERMOPLASTIC TRAFFIC STRIPE CONTINUOUS WHITE	0.780	MI				
90	626-C	6" THERMOPLASTIC EDGE STRIPE CONTINUOUS WHITE	0.913	MI				
91	626-E	6" THERMOPLASTIC TRAFFIC STRIPE CONTINUOUS YELLOW	0.391	MI				
92	626-F	6" THERMOPLASTIC EDGE STRIPE CONTINUOUS YELLOW	1.156	MI				

SECTION 902
PROPOSAL SHEET (2-F)

PROJECT NO. DECD-0018 (35)BO
FORREST COUNTY, MISSISSIPPI

Ref. No.	Pay Item No.	Description	Approx. Quantity	Unit	Unit Price		Item Total	
					Dollars	Cents	Dollars	Cents
93	626-G	THERMOPLASTIC DETAIL STRIPE SKIP WHITE (2' STRIP - 6' GAP)	92.000	LF				
94	626-G	THERMOPLASTIC DETAIL STRIPE WHITE	8,557.000	LF				
95	626-G	THERMOPLASTIC DETAIL STRIPE YELLOW	957.000	LF				
96	626-G	THERMOPLASTIC DETAIL STRIPE, BLUE	347.000	LF				
97	626-H	THERMOPLASTIC LEGEND, BLUE	46.000	SF				
98	S-627-C	RED-CLEAR REFLECTIVE RAISED MARKERS	326.000	EA				
99	S-627-D	TWO-WAY YELLOW REFLECTIVE RAISED MARKERS	317.000	EA				
100	628-E	COLD PLASTIC DETAIL STRIPE, YELLOW (6" EQUIVALENT LENGTH)	344.000	LF				
101	S-630-A	REFLECTORIZED TRAFFIC WARNING SIGN (ENCAPSULATED LENS)	22.000	EA				
102	630-A	STANDARD ROADSIDE SIGNS FORREST GENERAL HOSPITAL EMERGENCY NEXT RIGHT	97.500	SF				
103	630-A	STANDARD ROADSIDE SIGNS, FORREST GENERAL HOSPITAL EMERGENCY SECOND LEFT	97.500	SF				
104	S-630-B	REFLECTORIZED TRAFFIC REGULATORY SIGN (ENCAPSULATED LENS)	67.000	EA				
105	S-631-A	FLOWABLE FILL	11.000	CY				
106	809-A	RETAINING WALL SYSTEM, MODULAR	250.000	SF				
107	907-604-D	12" TRENCH DRAIN	45.000	LF				
Traffic Signal Items					Subtotal Roadway Items			
108	907-632-A007	SOLID STATE TRAFFIC CABINET ASSEMBLY, TYPE III CABINET, TYPE 1 CONTROLLER	2.000	EA				
109	907-632-J001	POWER SERVICE PEDESTAL	2.000	EA				

SECTION 902
PROPOSAL SHEET (2-G)

PROJECT NO. DECD-0018 (35)BO
FORREST COUNTY, MISSISSIPPI

Ref. No.	Pay Item No.	Description	Approx. Quantity	Unit	Unit Price		Item Total	
					Dollars	Cents	Dollars	Cents
110	907-634-A	TRAFFIC SIGNAL EQUIPMENT POLE, TYPE II (L), 30' POLE, 45' ARM	1.000	EA				
111	907-634-A	TRAFFIC SIGNAL EQUIPMENT POLE, TYPE III (L), 30' POLE, 50' & 55' ARM	1.000	EA				
112	907-634-A	TRAFFIC SIGNAL EQUIPMENT POLE, TYPE III (L), 30' POLE, 50' & 60' ARM	1.000	EA				
113	907-634-A	TRAFFIC SIGNAL EQUIPMENT POLE, TYPE III (L), 30' POLE, 60' & 60' ARM	1.000	EA				
114	907-634-A	TRAFFIC SIGNAL EQUIPMENT POLE, TYPE VI, 8' POLE	2.000	EA				
115	907-634-C001	POLE FOUNDATIONS, CLASS "B" CONCRETE	17.000	CY				
116	907-634-PP001	LUMINAIRE FIXTURE AND ARM, PER PLANS	4.000	EA				
117	907-635-A059	TRAFFIC SIGNAL HEAD, TYPE 1	10.000	EA				
118	907-635-A065	TRAFFIC SIGNAL HEAD, TYPE 2 FYA	3.000	EA				
119	907-635-A070	TRAFFIC SIGNAL HEAD, TYPE 3	2.000	EA				
120	907-635-A073	TRAFFIC SIGNAL HEAD, TYPE 4	1.000	EA				
121	907-635-A073	TRAFFIC SIGNAL HEAD, TYPE 4	1.000	EA				
122	907-635-A074	TRAFFIC SIGNAL HEAD, TYPE 4R	1.000	EA				
123	907-635-A074	TRAFFIC SIGNAL HEAD, TYPE 4R	3.000	EA				
124	907-635-A076	TRAFFIC SIGNAL HEAD, TYPE 6	4.000	EA				
125	907-636-B014	ELECTRICAL CABLE, UNDERGROUND IN CONDUIT, IMSA 20-1, AWG#14, 5 COND	578.000	LF				
126	907-636-B016	ELECTRICAL CABLE, UNDERGROUND IN CONDUIT, IMSA 20-1, AWG#14, 8 COND	889.000	LF				
127	907-636-B027	ELECTRICAL CABLE, UNDERGROUND IN CONDUIT, IMSA 20-1, AWG#8, 2 COND.	450.000	LF				
128	907-636-D007	ELECTRICAL CABLE, AERIAL SUPPORTED IN CONDUIT, IMSA 20-1, AWG#14, 7 CONDUCTOR	355.000	LF				

SECTION 902
PROPOSAL SHEET (2-H)

PROJECT NO. DECD-0018 (35)BO
FORREST COUNTY, MISSISSIPPI

Ref. No.	Pay Item No.	Description	Approx. Quantity	Unit	Unit Price		Item Total	
					Dollars	Cents	Dollars	Cents
129	907-637-A001	PULLBOX ENCLOSURE, TYPE 1	4.000	EA				
130	907-637-A002	PULLBOX ENCLOSURE, TYPE 2	5.000	EA				
131	907-637-A003	PULLBOX ENCLOSURE, TYPE 3	2.000	EA				
132	907-637-A004	PULLBOX ENCLOSURE, TYPE 4	1.000	EA				
133	907-637-C028	TRAFFIC SIGNAL CONDUIT,UNDERGROUND, TYPE 4, 2"	2,077.000	LF				
134	907-637-C030	TRAFFIC SIGNAL CONDUIT,UNDERGROUND, TYPE 4, 3"	54.000	LF				
135	907-637-D009	TRAFFIC SIGNAL CONDUIT, UNDERGROUND DRILLED OR JACKED, TYPE 4, 2"	246.000	LF				
136	907-637-D013	TRAFFIC SIGNAL CONDUIT, UNDERGROUND DRILLED OR JACKED, TYPE 4, 4"	276.000	LF				
137	907-639-B001	TYPE 1 OPTICAL DETECTOR	7.000	EA				
138	907-639-C001	TYPE 1 OPTICAL DETECTOR CABLE	1,233.000	LF				
139	907-639-D001	MULTIMODE PHASE SELECTOR	2.000	EA				
140	907-640-A001	VEHICLE LOOP ASSEMBLIES	192.000	LF				
141	907-640-B002	SHIELDED CABLE, AWG #18, 4 CONDUCTOR	2,106.000	LF				
142	907-640-C002	LOOP DETECTOR AMPLIFIER, 4 CHANNEL	2.000	EA				
143	907-643-A004	VIDEO VEHICLE DETECTION SENSOR TYPE 1A	7.000	EA				
144	907-645-B001	ACCESSIBLE PEDESTRIAN DETECTION ASSEMBLY	4.000	EA				
145	907-653-A001	TRAFFIC SIGN	42.000	SF				
146	907-653-B001	STREET NAME SIGN	70.000	SF				
				Subtotal Traffic Signal Items				
Erosion Control Items								
147	S-211-B	TOPSOIL FOR SLOPE TREATMENT (CONTRACTOR FURNISHED) (LVM)	50.000	CY				

SECTION 902

PROPOSAL SHEET (2-I)

PROJECT NO. DECD-0018 (35)BO
FORREST COUNTY, MISSISSIPPI

Ref. No.	Pay Item No.	Description	Approx. Quantity	Unit	Unit Price		Item Total	
					Dollars	Cents	Dollars	Cents
148	S-226-A	SOLID SODDING	10,000.000	SY				
Subtotal Erosion Control Items								
Erosion Control Items								
149	S-211-B	TOPSOIL FOR SLOPE TREATMENT (CONTRACTOR FURNISHED) (LVM)	1,200.000	CY				
150	S-212-A	AGRICULTURAL LIMESTONE	1.000	TON				
151	S-212-B	COMMERCIAL FERTILIZER (13-13-13)	0.500	TON				
152	S-212-F	AMMONIUM NITRATE	0.050	TON				
153	S-214-A	SEEDING	0.500	AC				
154	226-A	TEMPORARY GRASSING	3.500	AC				
155	S-233-A	TEMPORARY SILT FENCE (TYPE II) (AOS 0.15-0.84)	3,401.000	LF				
156	246-A	SANDBAGS	393.000	EA				
157	907-237-A	WATTLES, 20"	830.000	LF				
Subtotal Erosion Control Items								
Utility Items								
Relocation Items								
158	S-202-B	REMOVAL OF FIRE HYDRANT	1.000	EA				
159	S-604-C	PRECAST MANHOLE, 48" DIAMETER (WATER VALVE VAULT)	1.000	EA				
160	S-604-C	PRECAST MANHOLE, 72" DIAMETER (SPECIAL DESIGN)	1.000	EA				
161	S-613-D	ADJUSTMENT OF PARKING LOT LIGHTING SYSTEM	Lump Sum	LS	XXXXXXXXXX	XXXXXXXXXX		
162	S-613-E	ADJUSTMENT OF COMMUNICATION VAULT	2.000	EA				
163	S-613-E	ADJUSTMENT OF FIBER OPTIC BOX	1.000	EA				
164	S-613-E	ADJUSTMENT OF MANHOLE	3.000	EA				
165	S-613-E	ADJUSTMENT OF WATER METER	8.000	EA				

SECTION 902
PROPOSAL SHEET (2-J)

PROJECT NO. DECD-0018 (35)BO
FORREST COUNTY, MISSISSIPPI

Ref. No.	Pay Item No.	Description	Approx. Quantity	Unit	Unit Price		Item Total	
					Dollars	Cents	Dollars	Cents
166	S-613-E	ADJUSTMENT OF WATER VALVE	6.000	EA				
167	901-S-613-F	ADJUSTMENT OF SEWER SERVICE LINE	100.000	LF				
168	901-S-613-F	FIRE HYDRANT ASSEMBLY	1.000	EA				
169	901-S-613-G	ADJUSTMENT OF 2" SDR-21 (GASKET PIPE) WATER MAIN (ALL DEPTHS)	440.000	LF				
Subtotal Relocation Items								
Subtotal Utility Items								
Total Bid								

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 903

CONTRACT (Rev. 03-11-2010)

CONTRACT FOR _____

LOCATED IN THE COUNTY OF _____

STATE OF MISSISSIPPI

COUNTY OF _____

This contract entered into by and between the City of Hattiesburg , Mississippi,
on the one hand, and the undersigned contractor. on the other, witnesseth:

That in consideration of the payment by the City of Hattiesburg, Mississippi of the prices set out in the proposal hereto attached, to the undersigned contractor, such payment to be made in the manner and at the time or times specified in the specifications and the special provisions, if any, the undersigned contractor hereby agrees to accept the prices stated in the proposal in full compensation for the furnishing of all materials and equipment and the executing of all the work contemplated in this contract.

It is understood and agreed that the advertising according to law, the notice to contractors, the instructions to bidders. the proposal for the contract, the specifications. the revisions of the specifications, the special provisions, and also the plans for the work herein contemplated, said plans showing more particularly the details of the work to be done. shall be held to be, and are hereby made a part of this contract by specific reference thereto and with like effect as if each and all of said instruments had been set out fully herein in words and figures.

It is further agreed that for the same consideration the undersigned contractor shall be responsible for all loss or damage arising out of the nature of the work aforesaid, or from the action of the elements, and unforeseen obstructions or difficulties which may be encountered in the prosecution of the same and for all risks of every description connected with the work for faithfully completing the whole work in good and workmanlike manner according to the approved Plans, Specifications, Special Provisions and requirements of the City of Hattiesburg and the State Aid Engineer.

It is further agreed that the work shall be done under the direct supervision and to the complete satisfaction of the Project Engineer, or his authorized representatives, subject to inspection at all times and approval by the State Aid Engineer, and when Federal Funds are involved, by the Federal Highway Administration, or their agents as the case may be, in accordance with those Acts of the Legislature of the State of Mississippi approved by the Governor and such rules and regulations issued pursuant thereto by the State Aid Engineer of the Mississippi Department of Transportation Authorized Federal Agencies.

The Contractor agrees that all labor as outlined in the Special Provisions will be secured from list furnished by

It is agreed and understood that each and every provision of law and clause required by law to be inserted in this, contract shall be deemed to be inserted herein and this contract shall be read and enforced as though it were included herein and, if through mere mistake or otherwise any such provision is not inserted, or is not correctly inserted. then upon the application of either party hereto, the contract shall forthwith be physically amended to make such insertion.

The Contractor agrees that he has read each and every clause of this Contract, and fully understands the meaning of same and that he will comply with all the terms, covenants and agreements therein set forth.

Witness our signatures this the _____ day of _____ 20 ____

(1) _____ APPROVED _____ 20 ____
Contractor(s)

By _____ (3) _____
State Aid Engineer

TITLE _____
Signed and Sealed in the presence of:
(names and addresses of witnesses) APPROVED _____ 20 ____

(1) _____ (4) TRANSPORTATION COMMISSION OF THE
STATE OF MISSISSIPPI (Approval of the
Commission not Required when no Federal Funds are
involved.)

(2) _____
CITY OF HATTIESBURG, MISSISSIPPI
_____ County

By _____ By _____
Mayor Executive Director

Award authorized by the City of Hattiesburg, Mississippi

in session on the _____ Day of _____ 20 ____

Minute Book No. _____, Page no. _____.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904

CONTRACT BOND (Rev. 03-11-2010)

CONTRACT BOND FOR _____

LOCATED IN THE COUNTY OF _____

STATE OF MISSISSIPPI

COUNTY OF _____

Know all men by these presents: that we, _____
Principal. a _____ residing at _____
in the State of _____ and _____
residing at _____ in the State of _____

authorized to do business in the State of Mississippi, under the laws thereof, as surety, are held and firmly bound unto the City of Hattiesburg, State of Mississippi, in the Penal sum of (\$) Dollars, lawful money of the United States of America. to be paid to it for which payment well and truly to be made, we bind ourselves, our heirs, administrators, successors, or assigns jointly and severally by these presents.

Signed and sealed this the _____ day of _____ A. D., 20 _____.

The conditions of this bond are such, that whereas the said _____

principal, has (have) entered into a contract with the City of Hattiesburg, State of Mississippi, bearing the date of _____ day of _____ A. D., 20 _____ hereto annexed, for the construction of certain highways in the said county as mentioned in said contract in accordance with the plans, specifications and special provisions therefor, on file in the office of the City Clerk of Hattiesburg and state herein named.

Now, therefore, if the above bounden _____
in all things shall stand to and abide by and well and truly observe, do, keep and perform all and singular the terms, covenants, conditions, guarantees and agreements in said contract, contained on his (their) 'part to be observed, done, kept and performed and each of them, at the time and in the manner and form and furnish all of the material and equipment specified in said contract in strict accordance with the terms of said contract which said plans, specifications and special provisions are included in and form a part. of said contract and shall maintain, the said work contemplated until

its final completion and acceptance as specified in the currently approved specifications, and save harmless said City of Hattiesburg from any loss or damage arising out of or occasioned by the negligence, wrongful or criminal act, overcharge, fraud, or any other loss or damage whatsoever, on the part of said principal(s), his (their) agents, servants, or employees in the performance of said work or in any manner connected therewith, an shall be liable and responsible in a civil action instituted by the City of Hattiesburg, for double any amount in money or property, the City of Hattiesburg may lose or be overcharged or otherwise defrauded of, by reason of any wrongful or criminal act, if any, of the Contractor(s), his (their) agents, or employees, and shall promptly pay the said agents, servants and employees and all persons furnishing labor, material, equipment or supplies therefor, including premiums incurred, for Surety Bonds, Liability Insurance, and Workmen's Compensation Insurance; with the additional obligation that such Contractor shall promptly make payment of all taxes, licenses, assessments, contributions, damages, penalties and interest thereon, when and as the same may be due this State, or any county, municipality, board, department Commission or political Subdivision; in the course of the performance of said work, and in accordance with Sections 31-5-51 et seq. of the Mississippi Code of 1972, and other State statutes applicable thereto, and shall carry out to the letter and to the satisfaction of both the City of Hattiesburg and the State Aid Engineer all, each and every one of the stipulations, obligations, conditions, covenants and agreements and terms of said contract in accordance with all terms thereof and all of the expense and cost and Attorney's fees that may be incurred in the enforcement of the performance of said contract, or in the enforcement of the conditions and obligations of this bond, then this obligation shall be null and void, otherwise to be and remain in full force and virtue.

Witness our signatures this the _____ day of _____ A. D., 20 _____

(CONTRACTORS) Principal

SURETY

By: _____

By: _____

(Signature) ATTORNEY IN FACT.

TITLE _____

(Contractor's Seal)

Name and address of MS agent or qualified non-resident agent

(Surety Seal)

Proposal Guaranty

Insert here or attach hereto certified check or Proposal Guaranty Bond in the amount as required in the Notice to Contractors.

Each agent representing such Surety Company must file with the contracting county his power of attorney duly executed by said Surety Company.

SECTION 902

PROPOSAL

Date _____

Proposal of _____

_____ of _____

for constructing the following designated project within the time hereinafter specified.

The Plans are composed of drawings and blue prints on file in the offices of the

City Clerk of the City of Hattiesburg Mississippi.

The Specifications are the currently approved Standard Specifications of the Office of State Aid Road Construction of the Mississippi Department of Transportation and the Federal Highway Administration, except where superseded or amended by Special Provisions and Revisions of the Specifications attached hereto and made a part thereof.

City of Hattiesburg, Mississippi

Sirs: The following is made on behalf of _____

(Names and addresses of those interested)

and no others. Evidence of my (our) authority to submit the Proposal is hereby furnished. The Proposal is made without collusion on the part of any person, firm or corporation. I (we) certify that I (we) have carefully examined the Plans, and the Specifications, including the Special Provisions and Revisions herein, and have personally examined the site of the work. On the basis of the Specifications, Special Provisions, Revisions and Plans I (we) propose to furnish all necessary machinery, tools, apparatus and other means of construction and do all the work and furnish all the materials in the manner specified. I (we) understand that the quantities mentioned below are approximate only and are subject to either increase or decrease, and hereby propose to perform any increased or decreased quantities of work at the unit prices bid.

The following is my (our) itemized Proposal:

SECTION 902--Proposal(Continued)

In the event of award of the Contract to me (us) under this Proposal, I (we) contemplate the sub-contracting of the following items, to the persons or firms named after each item in accordance with Special Provisions providing for the sub-contracting attached hereto if such sub-contracting thereof is approved by the City of Hattiesburg and the State Aid Engineer. In the event of disapproval of such sub-contracting, I (we) agree to perform such item or items of work with my (our) own organization, in full compliance with all applicable terms of this Proposal.

NOTE: Bidder will insert below a list of the specific Pay Items and Quantities thereof which he proposes to sub-contract, and the names and addresses of the persons or firms to whom he proposes to sub-contract each Item.

Pay Item No. _____	_____	_____
	(quantity)	(description)
to _____	_____	of _____
Pay Item No. _____	_____	_____
	(quantity)	(description)
to _____	_____	of _____
Pay Item No. _____	_____	_____
	(quantity)	(description)
to _____	_____	of _____
Pay Item No. _____	_____	_____
	(quantity)	(description)
to _____	_____	of _____
Pay Item No. _____	_____	_____
	(quantity)	(description)
to _____	_____	of _____
Pay Item No. _____	_____	_____
	(quantity)	(description)
to _____	_____	of _____
Pay Item No. _____	_____	_____
	(quantity)	(description)
to _____	_____	of _____

I hereby certify that the persons or firms are named above as sub-contractors with the knowledge and consent of the persons or firms named.

Signed _____

By _____

In the event of the award of this contract to the above named bidder, for the performance of the work, and in the further event that the sub-contractor(s) named herein are approved by the City of Hattiesburg and the State Aid Engineer, the sub-contractor or sub-contractors shall execute the following:

I (we) hereby certify that the use of our names as sub-contractors on the above items, was and is with our knowledge and consent.

_____	20	_____
_____	20	_____
_____	20	_____
_____	20	_____

SECTION 902 - Proposal (Continued)

I (we) further propose to perform all "force account or extra work" that may be required of me (us) on the basis provided in the Specifications and to give such work my (our) personal attention in order to see that it is economically performed.

I (we) further propose to execute the attached contract agreement (Section 903) as soon as the work is awarded to me (us), and to begin and complete the work within the time limit provided for in the Specifications and Notice to Contractors. I (we) also propose to execute the attached contract bond (Section 904) in an amount not less than one hundred (100) per cent of the total of my (our) bid. This bond shall not only serve to guarantee the completion of the work on my (our) part, but also to guarantee the excellence of both workmanship and materials until the work is finally accepted.

I (we) enclose a certified check (bid bond) for _____ (\$_____) Dollars and hereby agree that in case of my (our) failure to execute the contract and furnish bond with FIFTEEN (15) days after notice of award, the amount of this check (bid bond) will be forfeited to the City of Hattiesburg, State of Mississippi, as liquidated damages arising out of my (our) failure to execute the contract as proposed. It is understood that in case I am (we are) not awarded the work, the check will be returned as provided in the Specifications.

Respectfully submitted,

Signed

By _____

Title _____

Address _____

Date _____, 20 _____

(To be filled in if a corporation)

Our corporation is chartered under the Laws of the State of _____ and the names, titles and business addresses of the executives are as follows:

_____	President	_____	Address
_____	Secretary	_____	Address
_____	Treasurer	_____	Address



Memorandum

To: Mayor Toby Barker and Members of City Council

From:

cc:

Date: Tuesday, August 4, 2020

Re: Approve Specifications and Authorize Publication for one (1) Twenty Yard Rear Loading Refuse collection Truck for the City of Hattiesburg Public Works Department.
File Number: 2020-539
Minute Book #

Summary

Approve Specifications and Authorize Publication for one (1) Twenty Yard Rear Loading Refuse collection Truck for the City of Hattiesburg Public Works Department.

Recommendation Statement

I recommend approval and authorization of said item.

Please place this on the August 4, 2020 City Council meeting for consideration.



City of Hattiesburg, MS

20 Yard Rear Loading Refuse Collection Truck Body Mounted on Single Axle

Chassis

Bid Specifications

SCOPE: It is the intent of this specification to describe a hydraulically actuated packer body of the rear loading type with the following minimum specifications considered necessary to perform the work assigned. The body shall be capable of compacting and transporting refuse to a landfill or transfer station and dispensing the load by means of hydraulic ejection. The body shall not be required to be tilted, lifted, or otherwise displaced from the chassis in order to eject the load.

GENERAL: All equipment furnished under this contract shall be new and unused, and the same as the manufacturers current production model. Accessories not specifically mentioned, but necessary to furnish a complete unit ready for use shall also be included. The equipment furnished shall conform to all ANSI Safety Standards A245.1-1984.

BID SPECIFICATIONS

Bidder Shall Complete the Following

If No, State Specifically the Item being Offered

YES NO OFFERED

A. CAPACITY

1. The body shall have a minimum capacity excluding hopper of:

20 Cubic Yards

2. The body shall have a compaction rate of

1,000 pounds per cubic yard

B. BODY DIMENSIONS

1. Maximum overall width not to exceed 96".

2. Maximum overall length and height (*with tailgate in locked position*) above the chassis frame not to exceed:

Capacity Length Height CA (cab to axle)

20 Cu./Yd. 244.5" 83" 138"

(Continued)

YES NO OFFERED

3. Body weight (exclusive of options) shall not exceed:

Capacity Weight

20 Cu./Yd. 11,277 pounds

C. BODY CONSTRUCTION

1. Body sides, roof shall be curve shell design without the need of side bracing. Continuous operation at maximum loads without harmful deformation or wear. _____
2. The roof shall be constructed of 10 gauge 80,000 PSI steel. _____
3. The body sides shall be constructed of 7 gauge, 100,000 PSI steel. _____
4. Sides shall be braced along the bottom 3 1/2" x 12" from tailgate tapered to a point at the front of the body. Braces shall be interconnected with floor gussets and continuously welded. Rear portion of side brace shall connect to a 12" x 16" triangular gussets and all seams continuously welded for maximum strength. _____
5. The body floor shall incorporate a trough design (*flat floors not acceptable*). _____
6. The body upper floor sides shall be 10 gauge 80,000 PSI steel. _____
7. The body floor center shall be 1/4" 150,000 PSI high tensile steel. _____
8. The trough shall be constructed of two 8" channel sills to hold the ejection panel in line under the most extreme load conditions. _____
9. Side access door shall be located on the street side of the body sidewall. _____
10. Side access door shall be equipped with a safety interlock to disengage PTO when door is open. _____ (Continued)

YES NO OFFERED

D. TAILGATE DIMENSIONS

1. Hopper opening width shall not be less than 74". _____
2. Hopper capacity of shall not be less than 3.0 cubic yards as calculated by WASTEC DWRP03 No. 1 method _____
3. Hopper cycle time with the standard PTO and pump Shall have an be 20 seconds minimum. _____

E. TAILGATE CONSTRUCTION

1. Tailgate sides shall be constructed of a minimum of 7 gauge high tensile sheet steel, and the upper sides shall be constructed of a minimum of 10 gauge 1/4" high tensile sheet steel . _____

2. Tailgate sides shall be reinforced by 1 3/4" x 4" bracing constructed of 7 gauge formed steel and fully welded in a horizontal position for maximum support. _____
3. The slide panel guide track shall be constructed of 1/2" x 2 1/2" AR450 steel reinforced by formed 1/4" high tensile steel. (*Free floating design is not acceptable*). _____
4. The tailgate shall be equipped with an automatic hydraulic locking system with a pilot check valve to ensure constant pressure for a tight seal. _____
5. The tailgate shall be unlocked raised by two double acting cylinders equipped with clevis ends and restrictors to prevent precipitous tailgate decent in the event of a broken hydraulic line. (4" bore cylinder) _____
6. The tailgate perimeter edge shall be reinforced by 2" x 2" structural tube steel. _____
7. Tailgate shall be equipped with a chemically inert seal to provide a watertight seal. (24" high) _____

(Continued)

YES NO OFFERED

8. Hopper floor shall remain stationary during the packing cycle and shall be equipped with a 2" drain plug. _____
9. Hopper floor shall be a minimum of 1/4" high tensile sheet adequately braced to withstand maximum pressures imposed upon it. Hopper back 1/4" T-1 steel. _____
10. The hopper load sill shall be constructed from a 3/8" plate and be even with the chassis frame height _____
11. Self cleaning grip bolt on strut steps and grab handles shall be required on both sides of the tailgate. _____
12. Auto locking tailgate (No turn buckles). _____

F. PACKING MECHANISM CONSTRUCTION

1. The sweep panel shall be of the backhoe packing type, and designed to have a minimum clearance to thoroughly clean the hopper bottom during cycling. _____
2. The sweep panel face plate shall be constructed of 1/4" high tensile sheet steel and shall be reinforced with (4) integral braces made from 1" steel plate. _____
3. The sweep panel shall be powered by two 5" x 16" double acting cylinders equipped with bronze bushings. _____
4. The slide panel face plate shall be constructed of 1/4" high strength sheet steel. _____
5. The slide panel shall be powered by two (4.5" bore x 43" stroke) double Acting cylinders. _____
6. The linear slide movement of the panel shall be accomplished on two 4 1/2" x 2 1/4" x 24" high density UHMW guide bearing blocks. _____
7. The pivotal rotation of the sweep panel shall be accomplished through the sweep panel pivot which shall consist of two 3" diameter stress proof pivot pins with bronze bushings. _____
8. Both ends of the pivot shaft shall be equipped with bronze bushings. _____

(Continued)

YES NO OFFERED

G. EJECTION PANEL CONSTRUCTION

1. Ejection blade shall form the front of the body and be hydraulically operated and designed to have a minimum clearance to thoroughly clean the body during cycling. _____
2. The load shall be discharged by means of a positive ejection system. A double acting, telescopic cylinder shall extend and retract the full length of the body. _____
3. The ejection panel face plate shall be constructed of 7 gauge 100,000 PSI sheet steel and reinforced with trapezoidal cross members of high 3" x 3" and 4" x 4" structural tube. _____

4. The ejection panel shall slide in an 8" channel sill on four high density UHMW slide bearing blocks. _____
5. Ejection panel bearing blocks must be able to be replaced without removing ejection panel. _____
6. The telescopic cylinder shall be horizontally positioned & consist of the following dimensional characteristics:

Capacity	Stage	Bore	
f. 20 Cu./Yd.	4 Stage	6.5"	_____
7. No clamping cylinder or clamping mechanism shall be required. _____

H. CONTROLS

1. The ejector panel and tailgate raise control shall be mounted inside the front left hand side of the body. Controls are accessed through opening located in access door. Controls will not come into contact with any refuse and are protected from outside elements. _____
2. An electrical device shall be supplied to automatically raise the engine speed to the proper RPM during the packing cycle. _____
3. An additional throttle advance switch shall be mounted at the front left hand side of the body near the tailgate raise control handle and at the rear right hand side near the packing blade control. _____
4. A Back Pack Valve shall be required to automatically advance the ejector panel when packing against it. _____

(Continued)

YES NO OFFERED

5. The packing panel control shall be designed to accomplish the normal packing cycle in two steps and shall be reversible or stopped at any time during the cycle. _____
6. The packing panel control shall be a two handle design and located at the rear of the tailgate on the curbside. _____

I. HYDRAULIC SYSTEM

1. A power takeoff/pump combination shall be used to power the hydraulic system. _____

2. All hydraulic valve shall be mechanically operated and use direct link controls. _____
3. The hydraulic pump shall provide a delivery of 29 GPM at 1400 to 1500 RPM min. _____
4. Normal maximum operating pressures shall not exceed 2000 PSI. _____
5. The hydraulic system shall incorporate a relief valve and a hydraulic pressure gauge to protect all components from excess pressures. _____
6. All hydraulic hoses shall conform to S.A.E. Standards. No flat spots in hoses will be acceptable. _____
7. Hydraulic tank shall not be less than 50 gallons and must be equipped with a sight and temperature gauge. The tank shall be located inside the body. _____
8. A replaceable 10 micron absolute in tank immersed filter with by-pass valve and visual indicator shall be furnished in the return line of the hydraulic system. _____
9. A shut-off valve shall be mounted on the suction line near the oil tank. _____
10. All cylinder rods shall be chrome plated. _____ 11. Sweep and slide cylinder rods induction hardened. _____

J. ELECTRICAL

1. All body wiring shall be color coded and hot stamped every 4" in factory harness with sealed connectors. _____

(Continued)

YES NO OFFERED

2. Body to chassis wiring shall be in sealed junction box at front of body with sealed connectors. _____
3. The body shall be equipped with approved LED clearance, warning, tail, license, stop and turn signals in compliance with the national safety standards. _____
4. The body shall be equipped with an external audio back up alarm _____ activated when the chassis is in reverse. _____

5. Driver alert buzzer and safety stop shall be installed at the rear of the tailgate located by the packing controls. _____
6. A light shall illuminate in the cab when the tailgate is open and an audible alarm will sound when the vehicle is placed in reverse while the tailgate is open. _____
7. It shall include a rear 7" Safety Vision camera, _____

K. PAINT

1. The body shall be properly cleaned of all dirt, oil, and welding slag. Gray DuPont Epoxy primer with rust inhibitors shall be applied. _____
2. DuPont Imron 5000 paint shall be applied. _____

Specify paint color: WHITE TO MATCH CAB

L. MOUNTING

1. Body shall be mounted in accordance to industry standards. No welding shall be performed on the chassis frame in the mounting process. _____

M. SAFETY

1. Access door to body to be equipped with an interlock switch to disable the hydraulic system when the door is open. _____

YES NO OFFERED

2. Safety Shut Down switch to be provided on the right side of the tailgate. _____

3. Driver alert switch to be provided at the right rear of the truck. _____
4. 20 lb. Fire extinguisher mounted on body or truck frame. _____
5. Triangle reflector kit located in cab. _____

N. WARRANTY

1. Manufacturer's limited warranty shall apply for a period of one year for body and 3 years for cylinders after date of acceptance of the unit. _____

O. ADDITIONAL INCLUDED EQUIPMENT

1. **Strobe Light** A strobe light shall be mounted on the upper half of the tailgate. The light shall be activated
by a switch located inside the cab of the chasis. _____
2. (2) Cart Flippers - Two rotary activated devices capable of dumping two wheel carts shall be attached to the rear of the tailgate. All associated hydraulic components shall also be supplied. _____
3. Reeving Cylinder-A cylinder winch shall be mounted on top of roof of body. The reeving cylinder shall be capable of handling commercial containers. All associated hydraulic components shall be supplied.
Capacity of reeving cylinder shall be no less than 15,000 lbs. _____
4. **Hopper Lights- (insert into electrical if desired). Two white halogen lamps shall be mounted on the upper half of the tailgate. The lights shall be capable of illuminating the hopper of the tailgate. The lights will be activated by a switch in the cab of the chassis.** _____

Additional-

1. Two complete sets of operators, parts, and service manuals will be supplied for truck chassis and refuse body. Mechanic training and operator training _____ for a minimum of two days. Also, bidder is responsible for any new employee operator or mechanic training in the future at no charge to the City. _____
2. Quarterly Maintenance Inspection at City garage for (3) Years. _____

Bidder must have a certified service/parts facility with minimum of three certified mechanics within 100 miles of City garage. Facility must not be a subcontracted facility. Must be operated by bidder. _____

3. PLEASE INCLUDE DOCUMENTATION ON ALL CHASSIS AND BODY WARRANTIES
4. Body Company shall have been selling and servicing the garbage body being bid for at least (10) Years. _____
5. Body Dealer must provide ON-SITE Warranty Service Work. _____

CHASSIS

	YES	NO	OFFERED
2021 Year Model OR Newer New and Unused Chassis	_____	_____	_____
Set Back Axle	_____	_____	_____
Conventional Aluminum Cab	_____	_____	_____
Cummins L9 300 Horsepower 860 FT/LB Engine	_____	_____	_____
DR12V 160 AMP 28-SI Quadramount PAD Alternator with remote battery volt sense or equal	_____	_____	_____
(2) DTNA GENUINE Alliance maintenance free stud batteries	_____	_____	_____
Positive Load Disconnect with Cab Mounted Control Switch Mounted Outboard Driver Seat	_____	_____	_____
Cummins Turbocharged 18.7 CFM air compressor	_____	_____	_____
Fuel/Water Separator	_____	_____	_____
Cummins Exhaust Brake	_____	_____	_____
11 ft. 6" Vertical Exhaust Mounted RH BOC	_____	_____	_____
Allison 3000 RDS Transmission with PTO provision	_____	_____	_____
Detroit 10,000 lb. front axle	_____	_____	_____
12,000 lb. Dual Taper Leaf Front Suspension	_____	_____	_____
Meritor 16.5X5 Q+ Cast Spider Cam front brakes	_____	_____	_____
Front Brake Dust Shields	_____	_____	_____
Meritor RS-23-161 23,000 lb. rear axle	_____	_____	_____
Driver Controlled Traction Differential-Single Rear Axle	_____	_____	_____
5.63 rear axle ratio (subject to change)	_____	_____	_____
Meritor 16.5X7 cam rear brakes	_____	_____	_____
Rear Brake Dust Shields	_____	_____	_____
30,000 lb flat leaf spring rear suspension w/Helper & Radius Rod	_____	_____	_____

Air brake package	_____	_____	_____
Steel Air Brake Reservoirs w/Pull Cables on All	_____	_____	_____
Wabsco 4S/4M ABS or equal	_____	_____	_____
Air dryer	_____	_____	_____
210-Inch Wheelbase	_____	_____	_____
140" CA	_____	_____	_____
11/32X3-1/2X10-3/16 Inch Steel Frame (120 KSI)	_____	_____	_____
50" Rear Frame Overhang	_____	_____	_____
3 Piece 14" Painted Steel Bumper w/Collapsible Ends	_____	_____	_____
Front Tow Hooks Frame Mounted	_____	_____	_____

YES NO OFFERED

80-Gallon Diesel Fuel Tank	_____	_____	_____
6 Gallon DEF Tank Mounted LH BOC	_____	_____	_____
Air cab mounts	_____	_____	_____
Single 14" Round Air horn under LH Deck	_____	_____	_____
Dual west coast heated mirrors	_____	_____	_____
Door mounted heated mirrors	_____	_____	_____
RH and LH 8 Inch Stainless Steel Fender mounted convex Mirrors with Tripod Brackets	_____	_____	_____
LED Aerodynamic Marker Lights	_____	_____	_____
Daytime Running Lights	_____	_____	_____
High back air driver seat with arm rest	_____	_____	_____
2-man toolbox passenger seat	_____	_____	_____
Electric cruise control	_____	_____	_____

AM/FM World Tuner Radio w/Bluetooth, USB and Aux	_____	_____	_____
Phillips-Temro 1000 Watt Engine Block Heater w/ plug in by driver's side door	_____	_____	_____
900 Square Inch Aluminum Radiator	_____	_____	_____
Chelsea PTO Mounted LH Side of Transmission	_____	_____	_____
Vehicle Interface Wiring Connector w/Blunt Cuts BOC	_____	_____	_____
Electronic Transmission Customer Access Connector BOC	_____	_____	_____
Non-Removable Bug Screen Mounted Behind Grille	_____	_____	_____
Tunnel/Firewall Liner	_____	_____	_____
RH and LH Electric Power Windows	_____	_____	_____
Opal Gray Vinyl Interior	_____	_____	_____
12 Volt Power supply in dash	_____	_____	_____
LH and RH Door Locks	_____	_____	_____
Adjustable Tilt and Telescoping Steering Wheel	_____	_____	_____
Automatic Self Rest Circuit Breakers	_____	_____	_____
(2) Cup Holders in Dash	_____	_____	_____
Cab to be white in color, Chassis Frame to be Black in color	_____	_____	_____
<u>Truck Warranties:</u>			
Towing for (3) Years, Included in Price.	_____	_____	_____
(3) Year Engine Extended Warranty, including but not limited to: DPF, Aftertreatment System, SCR Catalyst, Turbo, Fuel Injectors, brackets and clamps, aftertreatment module, DEF pump, electrical harness, fuel injectors, air compressor, turbocharger, water pump seal, EGR system and Oil Pump. Included in Price	_____	_____	_____
Must Provide Parts/Warranty/Service/Within 30 Miles Radius	_____	_____	_____

Chassis and body manufacturer are responsible for working together on the compatibility of the chassis and the body to make sure the complete unit is good functioning order.

CITY OF HATTIESBURG BID SHEET

(PLACE THIS SHEET IN FRONT OF SPECIFICATIONS)

20 CUBIC YARD REAR LOADING CHASSIS MOUNTED GARBAGE TRUCK

COMPANY SUBMITTING BID

BODY MANUFACTURER _____

BODY TO BE MADE IN MISSISSIPPI- CIRCLE ONE: YES/NO

CHASSIS MANUFACTURER _____

DELIVERY _____ (DAYS - from receipt of PO)

BID HONORED FOR _____ (DAYS)

LOCATION OF WARRANTY WORK THAT IS PERFORMED BY DEALERSHIP

BODY: _____

CHASSIS: _____

STATE THE DISTANCE (IN MILES) OF THE CHASSIS DEALERSHIP FROM THE CITY OF HATTIESBURG, MS: _____

STATE YOUR GUARANTEED BUYBACK PRICE FOR (3) YEARS: _____

COMPANY: _____

NAME: _____

Print or Type

ADDRESS: _____

SIGNATURE: _____

TITLE: _____

PHONE: _____

DATE: _____

EMAIL: _____

NOTICE TO BIDDERS

NOTICE is hereby given that the Mayor and Council of the City of Hattiesburg, Mississippi will receive bids in the following manner:

Proposals will be accepted until 10:00a.m. On Thursday, August 27, 2020, by electronic bid submission or in sealed envelopes at the Office of the City Clerk, 200 Forrest Street, Hattiesburg, MS 39401. Vendors must supply prices with their proposal. The bid form should be filled out and uploaded by the date and time stated above.

Specifications and procedures can be downloaded from Central Bidding at www.centralbidding.com All bids must comply with the specifications provided. The City of Hattiesburg reserves the right to amend the specifications, as necessary.

Submissions will be evaluated and vendors submitting acceptable offers will be invited to submit priced bids via reverse auction. Electronic bids and/or reverse auction bids can be submitted at www.centralbidding.com. For any questions relating to the electronic process, please call Central Bidding at (225)810-4814.

Qualified bidders will be invited to participate in a reverse auction, which will take place on September 3, 2020, at 10:30a.m.

ONE (1) 20 YARD REAR LOADING REFUSE COLLECTION TRUCK.

The above shall bid upon and delivered as per detailed specifications on file in the Office of the City Clerk, P. O. Box 1898, 200 Forrest Street, Hattiesburg, Mississippi, 39403-1898, (601) 545-4552, which may be obtained upon request.

The lowest and best bid received will be accepted, subject to the provisions of Section 31-7-13 of the Mississippi Code of 1972, Annotated as Amended, and other applicable State law; but the Council reserves the right to reject any or all bids received and to waive informalities.

PUBLISHED by Order of the Council on this, the 4th day of August, 2020.

CITY OF HATTIESBURG, MISSISSIPPI

BY: Kermas Eaton/s/
CITY CLERK



Memorandum

To: Mayor Toby Barker and Members of City Council

From:

cc:

Date: Tuesday, August 4, 2020

Re: Approve claims docket for the period ending July 31, 2020.
File Number: 2020-526
Minute Book #

Summary

Approve claims docket for the period ending July 31, 2020.

Recommendation Statement

I recommend approving the claims docket.

Please place this on the August 4, 2020 City Council meeting for consideration.

00001 ATCO INTERNATIONAL	I0558855	00200711 19006263 JANIT SUPP CEMETERY	07/31/20	278025	221.50-
00001 ATCO INTERNATIONAL	I0558856	00200711 19006264 JANIT SUPP CEMETERY	07/31/20	278025	127.99-

ATCO INTERNATIONAL					
Sum					349.49-
00001 AUTO ARMATURE SERVICE IN 21717		00200721 19006180 BATTERY U#18316 POLICE	07/31/20	278026	179.95-
00001 AUTO ARMATURE SERVICE IN 21719		00200706 19006193 BATTERY U#18565 CEMETERY	07/31/20	278026	157.95-
00001 AUTO ARMATURE SERVICE IN 21764		00200776 19006272 ALTERNATOR U#15963 PUB WORKS	07/31/20	278026	169.95-
00001 AUTO ARMATURE SERVICE IN 19161		00195313 19006290 BATTERY U#17114 POLICE	07/31/20	278026	142.95-
00001 AUTO ARMATURE SERVICE IN 21787		00200813 19006303 STARTER U#17961 CEMETERY	07/31/20	278026	109.95-
00001 AUTO ARMATURE SERVICE IN 21805		00200853 19006324 ALTERNATOR U#11945 TRAFFIC	07/31/20	278026	201.95-
00001 AUTO ARMATURE SERVICE IN 21824		00200910 19006332 BATTERY U#20423 POLICE	07/31/20	278026	185.95-

AUTO ARMATURE SERVICE IN					
Sum					1,148.65-
00001 B CLEAN LLC	4967	00200275 19006224 PRESSURE WASHER SUPP T DEPOT	07/31/20	278027	80.60-

B CLEAN LLC					
Sum					80.60-
00001 BANC OF AMERICA PUBLIC C R99330		02020723 19006351 ENERGY PERFORM LEASE DUE 8/20	07/28/20	10090	276,127.00-

BANC OF AMERICA PUBLIC C					
Sum					276,127.00-
00001 BIG IRON DIESEL REPAIR L RO4130		00199529 19006301 DIAGNOSTIC U#15893 SANIT	07/31/20	278028	380.00-
00001 BIG IRON DIESEL REPAIR L RO3953		00197065 19006318 LABOR CHARGE U#16083 P/WORKS	07/31/20	278028	380.00-
00001 BIG IRON DIESEL REPAIR L EO4072		00199288 19006320 ADDL REPRS U#14405 SANIT	07/31/20	278028	3,491.18-
00001 BIG IRON DIESEL REPAIR L RO4153		00200872 19006358 REPRS U#16008 PUBLIC WORKS	07/31/20	278028	2,726.41-

BIG IRON DIESEL REPAIR L					
Sum					6,977.59-
00001 BRACKMAN MOWER WAREHOUSE 55204		00200519 19006194 CHAINSAWS FOR TREE CREW	07/31/20	278031	1,319.89-
00001 BRACKMAN MOWER WAREHOUSE 54779		00200307 19006293 WASHER/DRYER REPR #5 FIRE STA	07/31/20	278031	295.00-

BRACKMAN MOWER WAREHOUSE					
Sum					1,614.89-
00001 BURGE EXCAVATING & GRADI 1456		00200781 19006302 TOPSOIL FOR CEMETERIES	07/31/20	278032	750.00-

BURGE EXCAVATING & GRADI					
Sum					750.00-
00001 C SPIRE (MEGAGATE) 1547039		00200702 19006177 NETWORK/INTERNET INFO TECH	07/31/20	278034	16,247.00-
00001 C SPIRE (MEGAGATE) 1549955		00200702 19006178 NETWORK/INTERNET INFO TECH	07/31/20	278034	1,312.49-

C SPIRE (MEGAGATE)					
Sum					17,559.49-
00001 CANON FINANCIAL SERVICES 21687762		00200745 19006203 COPIER 6/1-7/31 PURCHASING	07/31/20	278035	174.49-

CANON FINANCIAL SERVICES					
Sum					174.49-
00001 CARQUEST AUTO PARTS STOR 14758-144452		00200704 19006191 FANS FOR WORK TRUCKS CEMETERY	07/31/20	278036	38.96-
00001 CARQUEST AUTO PARTS STOR 14758-142946		00199971 19006273 REPR PTS U#16009 PUBLIC WORKS	07/31/20	278036	6.99-
00001 CARQUEST AUTO PARTS STOR 14758-142945		00199971 19006274 REPR PTS U#16009 PUBLIC WORKS	07/31/20	278036	5.87-
00001 CARQUEST AUTO PARTS STOR 14758-142944		00199971 19006275 REPR PTS U#16237 PUBLIC WORKS	07/31/20	278036	7.83-

00001	CARQUEST	AUTO	PARTS	STOR	14758-144905	00200858	19006354	REPR	PTS	POLICE	STOCK	07/31/20	278036	146.99-
00001	CARQUEST	AUTO	PARTS	STOR	14758-144906	00200858	19006355	REPR	PTS	POLICE	STOCK	07/31/20	278036	14.77-
00001	CARQUEST	AUTO	PARTS	STOR	14758-144490	00200719	19006361	REPR	PTS	U#16010	CEMETERY	07/31/20	278036	89.51-
00001	CARQUEST	AUTO	PARTS	STOR	14758-145062	00200909	19006407	REPR	PTS	POLICE	STOCK	07/31/20	278036	98.80-
00001	CARQUEST	AUTO	PARTS	STOR	14758-144967	00200892	19006410	REPR	PTS	U#14517/SHOP	FIRE	07/31/20	278036	94.21-
00001	CARQUEST	AUTO	PARTS	STOR	14758-145044	00200894	19006428	REPR	PTS	U#17530	PUBLIC WORKS	07/31/20	278036	22.30-

CARQUEST AUTO PARTS STOR														
Sum														
00001	CHEM-AQUA				3990783	00200947	19006370	COOL	TOWERS	MAINT	6/15-25/20	07/31/20	278040	526.23-

CHEM-AQUA														
Sum														
00001	CHEMPRO	SERVICES			12062	00200958	19006392	2020	WEED	CONTROL	SERVICE	07/31/20	278041	583.33-

CHEMPRO SERVICES														
Sum														
00001	CINTAS	CORPORATION	#J66		4056279223	00200749	19006211	UNIFORMS	7/20	TRAFFIC		07/31/20	278046	14,350.00-
00001	CINTAS	CORPORATION	#J66		4056278953	00200749	19006212	MOP/MAT	7/20	TRAFFIC		07/31/20	278046	21.83-
00001	CINTAS	CORPORATION	#J66		4056279044	00200748	19006216	UNIFORMS	7/20	PUBLIC	WORKS	07/31/20	278046	6.36-
00001	CINTAS	CORPORATION	#J66		4056279099	00200748	19006217	UNIFORMS	7/20	PUBLIC	WORKS	07/31/20	278046	76.69-
00001	CINTAS	CORPORATION	#J66		4056279108	00200748	19006218	UNIFORMS	7/20	PUBLIC	WORKS	07/31/20	278046	88.61-
00001	CINTAS	CORPORATION	#J66		4056279108	00200748	19006218	UNIFORMS	7/20	PUBLIC	WORKS	07/31/20	278046	27.75-
00001	CINTAS	CORPORATION	#J66		4056279252	00200748	19006219	UNIFORMS	7/20	PUBLIC	WORKS	07/31/20	278046	54.07-
00001	CINTAS	CORPORATION	#J66		4056279238	00200748	19006220	MOP/MAT	7/20	GO&FS		07/31/20	278046	23.22-
00001	CINTAS	CORPORATION	#J66		4056279236	00200748	19006221	MOP/MAT	7/20	GO&FS		07/31/20	278046	61.62-
00001	CINTAS	CORPORATION	#J66		4056279091	00200778	19006260	UNIFORMS	7/20	P/W	SHOP	07/31/20	278046	31.82-
00001	CINTAS	CORPORATION	#J66		4056278991	00200778	19006261	UNIFORMS	7/20	CONSTR		07/31/20	278046	55.11-
00001	CINTAS	CORPORATION	#J66		4056279276	00200884	19006321	UNIFORMS	7/20	SANIT		07/31/20	278046	149.97-
00001	CINTAS	CORPORATION	#J66		4056925143	00200925	19006339	UNIFORMS	7/27	TRAFFIC		07/31/20	278046	25.00-
00001	CINTAS	CORPORATION	#J66		4056925022	00200925	19006340	MOP/MAT	7/27	TRAFFIC		07/31/20	278046	6.36-
00001	CINTAS	CORPORATION	#J66		4056925084	00200922	19006341	UNIFORMS	7/27	P/W	SHOP	07/31/20	278046	31.82-
00001	CINTAS	CORPORATION	#J66		4056925011	00200922	19006342	UNIFORMS	7/27	CONSTR		07/31/20	278046	55.11-
00001	CINTAS	CORPORATION	#J66		4054966745	00200902	19006343	UNIFORMS	7/06	CEM/FORESTRY		07/31/20	278046	59.50-
00001	CINTAS	CORPORATION	#J66		4055645571	00200902	19006344	UNIFORMS	7/13	CEM/FORESTRY		07/31/20	278046	59.50-
00001	CINTAS	CORPORATION	#J66		4056281355	00200902	19006345	UNIFORMS	7/20	CEM/FORESTRY		07/31/20	278046	65.45-
00001	CINTAS	CORPORATION	#J66		4056925933	00200902	19006346	UNIFORMS	7/27	CEM/FORESTRY		07/31/20	278046	65.45-
00001	CINTAS	CORPORATION	#J66		4054966704	00200902	19006347	MOP/MAT	7/06	CEM/FORESTRY		07/31/20	278046	15.98-
00001	CINTAS	CORPORATION	#J66		4055645469	00200902	19006348	MOP/MAT	7/13	CEM/FORESTRY		07/31/20	278046	15.98-
00001	CINTAS	CORPORATION	#J66		4056281147	00200902	19006349	MOP/MAT	7/20	CEM/FORESTRY		07/31/20	278046	15.98-
00001	CINTAS	CORPORATION	#J66		4056925780	00200902	19006350	MOP/MAT	7/27	CEM/FORESTRY		07/31/20	278046	17.58-
00001	CINTAS	CORPORATION	#J66		4056925162	00200935	19006386	UNIFORMS	7/27	PUBLIC	WORKS	07/31/20	278046	23.22-
00001	CINTAS	CORPORATION	#J66		4056925058	00200935	19006387	UNIFORMS	7/27	PUBLIC	WORKS	07/31/20	278046	27.75-
00001	CINTAS	CORPORATION	#J66		4056924997	00200935	19006388	UNIFORMS	7/27	PUBLIC	WORKS	07/31/20	278046	76.69-
00001	CINTAS	CORPORATION	#J66		4056925122	00200935	19006389	UNIFORMS	7/27	PUBLIC	WORKS	07/31/20	278046	138.83-
00001	CINTAS	CORPORATION	#J66		4056925040	00200935	19006390	UNIFORMS	7/27	PUBLIC	WORKS	07/31/20	278046	190.43-
00001	CINTAS	CORPORATION	#J66		4056925108	00200986	19006435	UNIFORMS	7/27	SANIT		07/31/20	278046	149.97-

CINTAS CORPORATION #J66														
Sum														
1,637.65-														

00001 CITY OF HATTIESBURG FUND TRF 3RD 7/20 02020722 19006365 TRF 3RD 7/20 PAYROLL	07/28/20	10091	954,636.59-

CITY OF HATTIESBURG FUND			
Sum			954,636.59-
00001 COMCAST CABLEVISION OF H 839641073089 00201010 19006436 CABLE 7/20-8/19 PUBLIC WORKS	07/31/20	278050	73.20-

COMCAST CABLEVISION OF H			
Sum			73.20-
00001 COURT PROGRAMS INC INVOICE #69 00200762 19006201 ANKLE MONITORING 5/20 COURT	07/31/20	278053	7,065.00-
00001 COURT PROGRAMS INC INVOICE #70 00200762 19006202 ANKLE MONITORING 6/20 COURT	07/31/20	278053	6,900.00-

COURT PROGRAMS INC			
Sum			13,965.00-
00001 COURTNEY'S RESTAURANT EQ 13534 00200846 19006287 FRT CHG ICE MACH PTS C HALL	07/31/20	278054	150.00-

COURTNEY'S RESTAURANT EQ			
Sum			150.00-
00001 CRASH DATA GROUP INV9294 00200896 19006330 CRASH DATA SOFTWARE 8/20-8/21	07/31/20	278055	1,250.00-

CRASH DATA GROUP			
Sum			1,250.00-
00001 D P S CRIME LAB 90093550 00200717 19006181 ANALYTICAL FEES POLICE DEPT	07/31/20	278056	300.00-

D P S CRIME LAB			
Sum			300.00-
00001 DOLEAC ELECTRIC CO INC GEN91329-2 00200897 19006338 GENERATOR MAINT CITY WIDE	07/31/20	278057	21,580.00-

DOLEAC ELECTRIC CO INC			
Sum			21,580.00-
00001 ECONOMY SUPPLY CO 037343 00200393 19006231 BLDG MATLS OLD FORD BLDG	07/31/20	278060	670.35-
00001 ECONOMY SUPPLY CO 037749 00200801 19006319 BLDG MALTS P/W SHOP WINDOW	07/31/20	278060	175.30-
00001 ECONOMY SUPPLY CO 037763 00200789 19006325 WASP SPRAY PUBLIC WORKS	07/31/20	278060	49.50-
00001 ECONOMY SUPPLY CO 036422 00200306 19006409 PLUMB SUPP #6 FIRE STA	07/31/20	278060	220.45-
00001 ECONOMY SUPPLY CO 036285 00200290 19006415 OFFICE SECURITY DOOR CMTERY	07/31/20	278060	679.90-

ECONOMY SUPPLY CO			
Sum			1,795.50-
00001 ELKINS WHOLESALE INC 425978 00 00 00200906 19006405 JANIT SUPP CITY HALL	07/31/20	278062	273.54-

ELKINS WHOLESALE INC			
Sum			273.54-
00001 EMERGENCY EQUIPMENT PROF 452433 00200709 19006292 REPR PTS U#18100 FIRE DEPT	07/31/20	278063	3,396.43-
00001 EMERGENCY EQUIPMENT PROF 357216 00200541 19006427 REPRS VARI FIRE DEPT UNITS	07/31/20	278063	6,200.00-

EMERGENCY EQUIPMENT PROF			
Sum			9,596.43-
00001 EMERGENCY VETS ACCT#4026 41 00200752 19006222 EUTHANASIA OF ANIMAL	07/31/20	278064	76.00-

EMERGENCY VETS			
Sum			76.00-

00001 EMPIRE TRUCK SALES (H'BU CE006164949: 00199007 19006232 FILTERS ALL SANIT UNITS	07/31/20	278065	131.52-
00001 EMPIRE TRUCK SALES (H'BU CE006165717: 00199545 19006233 REPR PTS U#15893 SANIT	07/31/20	278065	79.71-
00001 EMPIRE TRUCK SALES (H'BU CE006166160: 00199909 19006259 REPR PTS U#20503 PUBLIC WORKS	07/31/20	278065	91.44-

EMPIRE TRUCK SALES (H'BU			
Sum			302.67-
00001 EMPIRE TRUCK SALES(JACKS CE006167995: 00200288 19006430 REPR PTS U#20503 PUBLIC WORKS	07/31/20	278066	49.38-

EMPIRE TRUCK SALES(JACKS			
Sum			49.38-
00001 FASTENAL COMPANY MSHAT226781 00200630 19006411 GLOVES FOR PUB WORKS CREWS	07/31/20	278069	369.60-

FASTENAL COMPANY			
Sum			369.60-
00001 FORREST GENERAL HOSPITAL EAP CHARGE 8 00200797 19006239 EAP CHARGE 8/2020	07/31/20	278074	1,785.00-

FORREST GENERAL HOSPITAL			
Sum			1,785.00-
00001 GILLILANDS ELECTRONICS S 72247 00200816 19006269 FRONT DOOR BELL REPR FIRE ADM	07/31/20	278076	85.00-
00001 GILLILANDS ELECTRONICS S 72289 00200918 19006334 MNTHLY PHONE RENT POLICE DEPT	07/31/20	278076	884.99-
00001 GILLILANDS ELECTRONICS S 72218(A) 00200843 19006367 WIRELESS SRV DISPATCH/#2 FIRE	07/31/20	278076	398.60-
00001 GILLILANDS ELECTRONICS S 72228 00200843 19006368 ALARM BATTERY MAYOR'S OFFICE	07/31/20	278076	112.98-
00001 GILLILANDS ELECTRONICS S 72218(B) 00200967 19006369 ADDL AMT DUE PO#200843	07/31/20	278076	270.00-

GILLILANDS ELECTRONICS S			
Sum			1,751.57-
00001 GROVER BROS RESTAURANT & 220000021112 00200913 19006356 ICE MACH REPR PTS PUB WORKS	07/31/20	278081	210.00-

GROVER BROS RESTAURANT &			
Sum			210.00-
00001 GULF GUARANTY EMPLOYEE B 200723090219 00200840 19006294 INMATES MED CLAIMS 6/26-7/22	07/31/20	278082	1,042.50-

GULF GUARANTY EMPLOYEE B			
Sum			1,042.50-
00001 H D INDUSTRIES INC 29845 00200023 19006326 REPR PTS U#20067 PUBLIC WORKS	07/31/20	278084	1,758.77-

H D INDUSTRIES INC			
Sum			1,758.77-
00001 H'BURG COCA COLA BOTTLIN 17319205176 00200599 19006192 POWERADE CEMETERY CREWS	07/31/20	278085	75.00-

H'BURG COCA COLA BOTTLIN			
Sum			75.00-
00001 HANCOCK BANK TRUST & FIN 7/27/20 DUE 02020717 19006322 MDB BONDS 7/20 PAYMENT	07/27/20	10089	1,981.72-

HANCOCK BANK TRUST & FIN			
Sum			1,981.72-
00001 HATTIESBURG HYDRAULICS I 84723 00200401 19006262 REPR PTS U#14408 SANIT	07/31/20	278088	504.55-

HATTIESBURG HYDRAULICS I			
Sum			504.55-
00001 HAVARD PEST CONTROL INC 1627714 00020203 19006401 SENTRICON SERV P/W SHOP	07/31/20	278090	249.00-
00001 HAVARD PEST CONTROL INC 1631948 00020208 19006418 QTRLY SRV POLICE DISPATCH	07/31/20	278090	48.00-

00001	HAVARD	PEST	CONTROL	INC	1631911	00020208	19006419	QTRLY	SRV	#3	FIRE	STA	07/31/20	278090	48.00-	
00001	HAVARD	PEST	CONTROL	INC	1631912	00020208	19006420	QTRLY	SRV	#4	FIRE	STA	07/31/20	278090	48.00-	
00001	HAVARD	PEST	CONTROL	INC	1631916	00020208	19006421	QTRLY	SRV	#8	FIRE	STA	07/31/20	278090	48.00-	
00001	HAVARD	PEST	CONTROL	INC	1631918	00020208	19006422	QTRLY	SRV	P/F	ACADEMY		07/31/20	278090	50.00-	
00001	HAVARD	PEST	CONTROL	INC	1631920	00020208	19006423	QTRLY	SRV	PAVILION	LAKEVW		07/31/20	278090	50.00-	
00001	HAVARD	PEST	CONTROL	INC	1631947	00020208	19006424	QTRLY	SRV	SOUTH	HILL	CEM	07/31/20	278090	60.00-	

HAVARD PEST CONTROL INC																
Sum																
00001	HOLLAND	VETERINARY	HOSPI	ACCT#85	3691	00200810	19006267	SERVS	NARCO	POLICE	K-9		07/31/20	278093	68.00-	
00001	HOLLAND	VETERINARY	HOSPI	ACT#85	37068	00200928	19006331	SERVS	NARCO	POLICE	K-9	GRANT	07/31/20	278093	68.00-	
00001	HOLLAND	VETERINARY	HOSPI	ACCT#85	3700	00200929	19006333	SERVS	OTTER	POLICE	K-9		07/31/20	278093	136.10-	

HOLLAND VETERINARY HOSPI																
Sum																
00001	HUGHES	SUPPLY		S159098396.0	00200496	19006229	A/C	REPR	PTS	P/F	ACADEMY		07/31/20	278095	29.57-	
00001	HUGHES	SUPPLY		S159155189.0	00200652	19006329	A/C	REPR	SUPP	TRAIN	DEPOT		07/31/20	278095	98.75-	
00001	HUGHES	SUPPLY		S159162835.0	00200678	19006335	A/C	REPR	SUPP	P/F	ACADEMY		07/31/20	278095	109.60-	

HUGHES SUPPLY																
Sum																
00001	HUGHES, JESSE	STEVEN		CEMETERY	SPA	02020711	19006285	BUY	BACK	CMTRY	LOTS	2020-421	07/23/20	10088	237.92-	

HUGHES, JESSE STEVEN																
Sum																
00001	INTERFACE	SECURITY	SYSTE	19766845	00200931	19006393	SECURITY	8/20	YTH	ART	MUSEUM		07/31/20	278097	1,050.00-	

INTERFACE SECURITY SYSTE																
Sum																
00001	INTL	INSTITUTE	OF	MUNICI	39343	C	JONE	00200736	19006176	MBRSHP	2020-2021	C	JONES	07/31/20	278098	46.99-

INTL INSTITUTE OF MUNICI																
Sum																
00001	IRBY, STUART	C	CO	S011978138.0	00200403	19006398	LIGHT	BULBS	AIRPORT	LIGHTS			07/31/20	278099	110.00-	
00001	IRBY, STUART	C	CO	S011978138.0	00200951	19006399	FRT	CHARGE	PO#200403				07/31/20	278099	705.12-	

IRBY, STUART C CO																
Sum																
00001	JIM SMITH	SERVICES		PERMIT-ELEC-	02020708	19006283	PERMIT-ELEC-0620013994						07/31/20	278103	24.00-	

JIM SMITH SERVICES																
Sum																
00001	JOHNSON	CONTROLS, INC		73719120	00200998	19006432	SERVS	12/01/19-2/29/20					07/31/20	278104	24.00-	

JOHNSON CONTROLS, INC																
Sum																
00001	KEELING	COMPANY	(HATTIES	S3807495.001	00200712	19006230	PLUMB	SUPP	53	TROON	CIRCLE		07/31/20	278106	4,660.50-	

KEELING COMPANY (HATTIES																
Sum																
79.05-																

00001 KRONOS INCORPORATED	11624905	00200798 19006237 SOFTWARE SUPPORT INFO TECH	07/31/20	278110	9,451.52-
00001 KRONOS INCORPORATED	11624906	00200798 19006238 SOFTWARE SUPPORT INFO TECH	07/31/20	278110	130.00-

KRONOS INCORPORATED					
Sum					9,581.52-
00001 LAMAR ADVERTISING	111628252	00200698 19006352 COVID MASK BILLBOARDS	07/31/20	278112	1,400.00-

LAMAR ADVERTISING					
Sum					1,400.00-
00001 LAMAR AUTO SALVAGE INC	636117	00200770 19006277 REPR PTS U#14715 PUBLIC WORKS	07/31/20	278113	200.00-

LAMAR AUTO SALVAGE INC					
Sum					200.00-
00001 LARRY'S WRECKER SERVICE	7304	00200771 19006207 TOWING U#18316 POLICE	07/31/20	278117	55.00-
00001 LARRY'S WRECKER SERVICE	6633	00200799 19006243 TOWING U#18313 POLICE	07/31/20	278117	55.00-
00001 LARRY'S WRECKER SERVICE	6760	00200799 19006244 TOWING U#18201 POLICE	07/31/20	278117	55.00-
00001 LARRY'S WRECKER SERVICE	7016	00200799 19006245 TOWING U#16422 POLICE	07/31/20	278117	65.00-
00001 LARRY'S WRECKER SERVICE	6988	00200799 19006246 TOWING U#18316 POLICE	07/31/20	278117	55.00-
00001 LARRY'S WRECKER SERVICE	7485	00200799 19006247 TOWING U#19704 POLICE	07/31/20	278117	55.00-
00001 LARRY'S WRECKER SERVICE	7481	00200799 19006248 TOWING U#19702 POLICE	07/31/20	278117	55.00-
00001 LARRY'S WRECKER SERVICE	7483	00200799 19006249 TOWING U#18328 POLICE	07/31/20	278117	55.00-
00001 LARRY'S WRECKER SERVICE	7489-B	00200799 19006250 TOWING U#16650 POLICE	07/31/20	278117	55.00-
00001 LARRY'S WRECKER SERVICE	7489-A	00200799 19006251 TOWING U#15780 POLICE	07/31/20	278117	55.00-
00001 LARRY'S WRECKER SERVICE	7299	00200799 19006252 TOWING U#18327 POLICE	07/31/20	278117	55.00-
00001 LARRY'S WRECKER SERVICE	7142	00200799 19006253 TOWING F150 POLICE	07/31/20	278117	65.00-
00001 LARRY'S WRECKER SERVICE	7586	00200799 19006254 TOWING U#19702 POLICE	07/31/20	278117	55.00-
00001 LARRY'S WRECKER SERVICE	7651	00200799 19006255 TOWING U#18321 POLICE	07/31/20	278117	55.00-
00001 LARRY'S WRECKER SERVICE	7659	00200799 19006256 TOWING U#19341 POLICE	07/31/20	278117	55.00-
00001 LARRY'S WRECKER SERVICE	7691	00200799 19006257 TOWING U#18324 POLICE	07/31/20	278117	55.00-
00001 LARRY'S WRECKER SERVICE	7620	00200799 19006258 TOWING U#19345 POLICE	07/31/20	278117	55.00-
00001 LARRY'S WRECKER SERVICE	7708	00200849 19006297 TOWING U#15999 PUBLIC WORKS	07/31/20	278117	200.00-
00001 LARRY'S WRECKER SERVICE	7653	00200954 19006391 TOWING U#15931 ENGR DEPT	07/31/20	278117	65.00-

LARRY'S WRECKER SERVICE					
Sum					1,220.00-
00001 LIBERTY FLAG & SPECIALTY	05200077	00197590 19006309 ADDL FLAG PO#197586 POLICE	07/31/20	278118	66.50-

LIBERTY FLAG & SPECIALTY					
Sum					66.50-
00001 MCELHANEY PLUMBING INC	285810	00200744 19006271 TOILET SEATS PUBLIC WORKS	07/31/20	278121	89.85-
00001 MCELHANEY PLUMBING INC	285845	00200915 19006357 ICE MACH PLUMB SUPP PUB WORKS	07/31/20	278121	35.44-

MCELHANEY PLUMBING INC					
Sum					125.29-
00001 MEDICAL ANALYSIS-GHV	10527	00200754 19006205 EMP CLINIC FEES 7/2020	07/31/20	278123	29,902.59-

MEDICAL ANALYSIS-GHV					
Sum					29,902.59-

00001 MID SOUTH UNIFORM & SUPP 606988	00200344 19006225 NAME PLATE POLICE OFFICER	07/31/20	278124	17.00-
00001 MID SOUTH UNIFORM & SUPP 606877	00198539 19006242 DUTY BELTS POLICE	07/31/20	278124	1,560.00-

MID SOUTH UNIFORM & SUPP				
Sum				1,577.00-
00001 MISSISSIPPI INDUSTRIES F 0046783-IN	00200606 19006215 HAND SANITIZER P/W COVID-19	07/31/20	278126	228.00-

MISSISSIPPI INDUSTRIES F				
Sum				228.00-
00001 MOLLY MAID	SERVS 7/2020 00200377 19006223 JANIT SERVS 7/20 HILND CMTERY	07/31/20	278127	245.00-

MOLLY MAID				
Sum				245.00-
00001 MONTAGUE, PITTMAN & VARN STMT# 48064	00200974 19006426 SRVS CIVIL SERV COMM COUNSEL	07/31/20	278128	500.00-

MONTAGUE, PITTMAN & VARN				
Sum				500.00-
00001 MOORE'S BICYCLE SHOP INC PO#198056 7/	00198056 19006323 HELMETS-QUALITY OF LIFE TEAM	07/31/20	278129	479.92-

MOORE'S BICYCLE SHOP INC				
Sum				479.92-
00001 MOTORCYCLE GEAR	PPO#200342 7 00200342 19006268 MOTORCYCLE REPR PTS POLICE	07/31/20	278130	679.25-

MOTORCYCLE GEAR				
Sum				679.25-
00001 MS POWER COMPANY	7/20 GENERAL 00202020 19006417 MNTHLY ELEC-GENERAL	07/31/20	278132	126,136.02-

MS POWER COMPANY				
Sum				126,136.02-
00001 MS STATE/DEPT OF HEALTH/ 21-125986 GE	00200724 19006173 BOILER/PRESSURE INSP VARI LOC	07/31/20	278133	1,050.00-
00001 MS STATE/DEPT OF HEALTH/ 21-126045 GE	00200723 19006179 BOILER/PRESSURE INSP VARI LOC	07/31/20	278133	390.00-

MS STATE/DEPT OF HEALTH/				
Sum				1,440.00-
00001 MS TURF	261581 00200826 19006360 GRASS SOD FOR CEMETERIES	07/31/20	278134	115.00-

MS TURF				
Sum				115.00-
00001 MUNICIPAL EMERGENCY SERV IN1470925(B)	00200891 19006310 ADDL AMT DUE PO#200030	07/31/20	278135	290.00-
00001 MUNICIPAL EMERGENCY SERV IN1477785(B)	00200891 19006311 ADDL AMT DUE PO#200030	07/31/20	278135	818.60-
00001 MUNICIPAL EMERGENCY SERV IN1470925(A)	00200030 19006312 WATER RESCUE EQUIP P/F ACDMY	07/31/20	278135	1,278.94-
00001 MUNICIPAL EMERGENCY SERV IN1473148	00200030 19006313 WATER RESCUE EQUIP P/F ACDMY	07/31/20	278135	1,740.00-
00001 MUNICIPAL EMERGENCY SERV IN1477785(A)	00200030 19006314 WATER RESCUE EQUIP P/F ACDMY	07/31/20	278135	1,342.80-

MUNICIPAL EMERGENCY SERV				
Sum				5,470.34-
00001 NEWELL PAPER COMPANY	4086684 00200501 19006186 WHITE KNIT RAGS POLICE SHOP	07/31/20	278138	154.52-
00001 NEWELL PAPER COMPANY	4086728 00200537 19006187 BLDG MATLS P/W BREAKROOM	07/31/20	278138	366.79-
00001 NEWELL PAPER COMPANY	4087062 00200620 19006289 BAGS FOR EVIDENCE	07/31/20	278138	509.35-

NEWELL PAPER COMPANY				
Sum				1,030.66-

00001 OFFICE DEPOT INC	104081043001	00200436 19006241	COMPUTER SUPP FOR EVIDENCE	07/31/20	278140	587.14-
00001 OFFICE DEPOT INC	2410984388	00199564 19006425	OFFICE SUPP LOSS CONTROL	07/31/20	278140	265.64-

OFFICE DEPOT INC						
Sum						852.78-
00001 OFFICE PRODUCTS PLUS	909861-0	00200888 19006404	PO RECEIVING PAPER ACCTG DEPT	07/31/20	278141	94.90-

OFFICE PRODUCTS PLUS						
Sum						94.90-
00001 PATTERSON AUTO ELECTRIC	80690	00200580 19006226	A/C REPR U#17595 POLICE	07/31/20	278143	150.00-

PATTERSON AUTO ELECTRIC						
Sum						150.00-
00001 PEANUTS TOWING SERVICE	93292	00200720 19006182	TOWING U#19702 POLICE	07/31/20	278144	65.00-
00001 PEANUTS TOWING SERVICE	93129	00200850 19006298	TOWING U#14715 PUBLIC WORKS	07/31/20	278144	75.00-

PEANUTS TOWING SERVICE						
Sum						140.00-
00001 PEARL RIVER VALLEY EPA (7/20 GENERAL		00202020 19006362	MNTHLY 7/20 PUBLIC SERVICES	07/31/20	278145	16.60-

PEARL RIVER VALLEY EPA (						
Sum						16.60-
00001 PHILLIPS CAR CARE CENTER 05233		00200760 19006431	A/C REPR U#17017 PUBLIC WORKS	07/31/20	278146	794.50-

PHILLIPS CAR CARE CENTER						
Sum						794.50-
00001 PINE BELT INDUSTRIAL SUP 4180535-01		00199472 19006280	MOWER BELTS HEALTH DIV	07/31/20	278148	50.00-

PINE BELT INDUSTRIAL SUP						
Sum						50.00-
00001 PINE BELT OIL COMPANY IN 10724186		00200590 19006184	GAS FOR P/W FUEL STATION	07/31/20	278149	8,392.79-
00001 PINE BELT OIL COMPANY IN 10729713		00200757 19006402	GAS FOR P/W FUEL STATION	07/31/20	278149	8,608.70-
00001 PINE BELT OIL COMPANY IN 10697161		00200757 19006403	DIESEL FOR P/W FUEL STATION	07/31/20	278149	5,024.99-

PINE BELT OIL COMPANY IN						
Sum						22,026.48-
00001 POWER HOUSE TOOLS & OUTD ML45F6OWA		00200640 19006304	PULL STRING CEMETERY	07/31/20	278151	43.98-
00001 POWER HOUSE TOOLS & OUTD ML40004X4		00200809 19006305	REPR PTS U#19559 CEMETERY	07/31/20	278151	131.99-

POWER HOUSE TOOLS & OUTD						
Sum						175.97-
00001 PROJECT NOLA	PO#201011 7/	00201011 19006437	PROJECT NOLA CAMERAS	07/31/20	278152	18,900.00-

PROJECT NOLA						
Sum						18,900.00-
00001 PUCKETT RENTS	772150	00200407 19006188	REPR PTS U#16076 PUBLIC WORKS	07/31/20	278153	129.11-

PUCKETT RENTS						
Sum						129.11-

00001 RED BUD SUPPLY INC	169266	00200311 19006296	GATORADE PUBLIC WORKS	07/31/20	278156	375.73-
00001 RED BUD SUPPLY INC	169248	00200141 19006412	RAINSUITS PUBLIC WORKS	07/31/20	278156	114.06-

RED BUD SUPPLY INC						
Sum						489.79-
00001 REPUBLIC SERVICES INC	0991-0003121	00199500 19006394	TRANSPORT RECYCLABLES	07/31/20	278158	3,600.00-
00001 REPUBLIC SERVICES INC	0991-0003121	00200254 19006396	RECYCLING REMOVAL 1 HAUL	07/31/20	278158	2,709.17-
00001 REPUBLIC SERVICES INC	0991-0003121	00200402 19006397	RECYCLE CONTAINER DELIVERY	07/31/20	278158	2,440.00-

REPUBLIC SERVICES INC						
Sum						8,749.17-
00001 RICOH CORP	33737928	00200783 19006236	COPIER 7/15-8/14 HUMAN RES	07/31/20	278160	221.67-
00001 RICOH CORP	33737378	00200819 19006270	COPIER LATE CHARGE FIRE ADM	07/31/20	278160	9.60-

RICOH CORP						
Sum						231.27-
00001 RJ YOUNG COMPANY	INV3737904	00200696 19006175	COPIER 6/5-7/4 CITY CLERK	07/31/20	278161	204.00-
00001 RJ YOUNG COMPANY	INV3745664	00200691 19006183	COPIER 6/10-7/09 P/F ACADEMY	07/31/20	278161	198.00-
00001 RJ YOUNG COMPANY	INV3755057	00200861 19006307	COPIER 6/16-7/15 MPO DIV	07/31/20	278161	174.00-
00001 RJ YOUNG COMPANY	INV2755439	00200862 19006308	COPIER 6/17-7/16 GIS DIV	07/31/20	278161	144.22-
00001 RJ YOUNG COMPANY	INV3764021	00200949 19006381	COPIER 6/24-7/23 POLICE ADM	07/31/20	278161	253.00-
00001 RJ YOUNG COMPANY	INV3763989	00200997 19006433	COPIER 6/25-7/24 ENGR DEPT	07/31/20	278161	262.00-

RJ YOUNG COMPANY						
Sum						1,235.22-
00001 SACKS OUTDOOR SUPPLY	RC1000121031	00199624 19006291	UNIFORM PANTS WILSON ACADEMY	07/31/20	278165	49.99-
00001 SACKS OUTDOOR SUPPLY	1229	00200883 19006353	CLOTH ALLOW ROBINSON POLICE	07/31/20	278165	499.70-
00001 SACKS OUTDOOR SUPPLY	RC1000120710	00197613 19006408	CAPS P/F ACADEMY RECRUITS	07/31/20	278165	406.65-

SACKS OUTDOOR SUPPLY						
Sum						956.34-
00001 SCALES BIOLOGICAL LABORA	7655B	00200761 19006206	DNA ANALYSIS POLICE CASE	07/31/20	278166	1,000.00-

SCALES BIOLOGICAL LABORA						
Sum						1,000.00-
00001 SERVICEMASTER INC	122022	00200697 19006185	DISINFECTING SERV CITY HALL	07/31/20	278169	5,000.00-

SERVICEMASTER INC						
Sum						5,000.00-
00001 SOLAR SUPPLY INC	3431232	00200795 19006279	ICE MACHINE FREON TRAFF/CONST	07/31/20	278178	114.90-
00001 SOLAR SUPPLY INC	3431398	00200842 19006359	A/C UNIT CONST CARPENTER SHOP	07/31/20	278178	2,873.24-

SOLAR SUPPLY INC						
Sum						2,988.14-
00001 SOUTHERN FINANCIAL SYSTE	CMCHAT 6/17/	02020719 19006363	POLICE FINES COLL.FEE	07/31/20	278181	245.75-
00001 SOUTHERN FINANCIAL SYSTE	CMCHAT2 6/30	02020720 19006364	POLICE FINES COLL.FEE	07/31/20	278181	261.60-
00001 SOUTHERN FINANCIAL SYSTE	CMCHAT3 6/30	02020721 19006366	POLICE FINES COLL.FEE	07/31/20	278181	1,110.18-

SOUTHERN FINANCIAL SYSTE						
Sum						1,617.53-

00001 SOUTHERN PINE ELECTRIC P 7/20 GENERAL 00202019 19006400 MNTHLY 7/20 PUBLIC SERVICES	07/31/20	278182	79.17-

SOUTHERN PINE ELECTRIC P			
Sum			79.17-
00001 SOUTHERN PINES ANIMAL SH COB-16 00200822 19006281 HANDLING/HOUSING 8/2020	07/31/20	278183	14,583.33-

SOUTHERN PINES ANIMAL SH			
Sum			14,583.33-
00001 SOUTHERN TIRE MART LLC (2520039211 00200707 19006282 TIRE U#18565 CEMETERY TRUCK	07/31/20	278184	123.20-
00001 SOUTHERN TIRE MART LLC (2520039964 00200367 19006434 RECAP TIRES GARBAGE TRUCKS	07/31/20	278184	4,147.00-

SOUTHERN TIRE MART LLC (			
Sum			4,270.20-
00001 SOUTHGROUP (HATTIESBURG HATTIES-02 1 00200965 19006371 PRIMARY PROPERTY INS RNWL	07/31/20	278185	221,757.67-
00001 SOUTHGROUP (HATTIESBURG HATTIES-02 1 00200965 19006372 EXCESS PROPERTY INS RNWL	07/31/20	278185	32,797.00-
00001 SOUTHGROUP (HATTIESBURG HATTIES-02 1 00200965 19006373 EXCESS PROPERTY INS RNWL	07/31/20	278185	33,840.59-
00001 SOUTHGROUP (HATTIESBURG HATTIES-02 1 00200965 19006374 EXCESS PROPERTY INS RNWL	07/31/20	278185	51,000.00-
00001 SOUTHGROUP (HATTIESBURG HATTIES-02 1 00200964 19006375 AVIATION LIABILITY INS RNWL	07/31/20	278185	1,322.00-
00001 SOUTHGROUP (HATTIESBURG HATTIES-02 1 00200964 19006376 COMMERCIAL TERRORISM RNWL	07/31/20	278185	12,977.25-
00001 SOUTHGROUP (HATTIESBURG HATTIES-02 1 00200964 19006377 WIND DEDUCTIBLE RNWL	07/31/20	278185	12,320.88-
00001 SOUTHGROUP (HATTIESBURG HATTIES-02 1 00200966 19006378 BOILER & MACHINERY INS RNWL	07/31/20	278185	10,317.00-
00001 SOUTHGROUP (HATTIESBURG HATTIES-02 1 00200963 19006379 CRIME POLICY RENEWAL	07/31/20	278185	2,865.00-

SOUTHGROUP (HATTIESBURG			
Sum			379,197.39-
00001 SPEEDY PRINTING & SIGNS 27977 00200649 19006295 STREET MARKERS TRAFFIC DEPT	07/31/20	278186	80.00-

SPEEDY PRINTING & SIGNS			
Sum			80.00-
00001 SPIRE ENERGY 7/20 GENERAL 00202020 19006416 MNTHLY GAS-GENERAL	07/31/20	278187	300.56-

SPIRE ENERGY			
Sum			300.56-
00001 STATE FIRE ACADEMY 28206 HOLBRO 00200747 19006209 NO SHOW FEE HOLBROOK 7/6/2020	07/31/20	278189	60.00-

STATE FIRE ACADEMY			
Sum			60.00-
00001 TYLER TECHNOLOGIES INC 025-299031 00193456 19006196 PARTIAL PAYMENT-18 CONFIG HRS	07/20/20	10084	3,150.00-
00001 TYLER TECHNOLOGIES INC 025-295604 00200204 19006197 PARTIAL PYMT- 4/14-5/1/20	07/20/20	10085	1,837.50-
00001 TYLER TECHNOLOGIES INC 045-305755 00200174 19006198 MUNI SAAS IMPLEMENTATION	07/20/20	10086	4,200.00-
00001 TYLER TECHNOLOGIES INC 045-308471 00200852 19006286 MUNIS IMPLEMENTATION 6/17-25	07/31/20	278194	8,400.00-
00001 TYLER TECHNOLOGIES INC 025-293106 00200860 19006306 ENERGOV MNT 6/2020-5/2021 UD	07/31/20	278195	2,822.40-

TYLER TECHNOLOGIES INC			
Sum			20,409.90-
00001 U S POSTAL SERVICE POSTA POSTAGE 7/23 00200837 19006288 MAIL MACHINE POSTAGE 7/2020	07/31/20	278197	10,000.00-

U S POSTAL SERVICE POSTA			
Sum			10,000.00-

00001 UNDERWOOD OUTDOOR POWER, 87258	00200197 19006227 MOWER REPAIR P/F ACADEMY	07/31/20	278198	420.78-
00001 UNDERWOOD OUTDOOR POWER, 87256	00200514 19006228 MOWER REPAIR P/F ACADEMY	07/31/20	278198	431.74-

UNDERWOOD OUTDOOR POWER,				
Sum				852.52-
00001 UNITED FENCE COMPANY 20452	00199895 19006327 FRONT GATE REPR PUBLIC WORKS	07/31/20	278199	350.00-

UNITED FENCE COMPANY				
Sum				350.00-
00001 UNITED PARCEL SERVICE IN 0008E1Y15290	00200950 19006380 SERV 7/13/20 POLICE DEPT	07/31/20	278200	29.11-

UNITED PARCEL SERVICE IN				
Sum				29.11-
00001 UNIVERSITY TIRE & SERVIC INV157207	00200779 19006299 TIRES U#15922 CONSTR	07/31/20	278201	67.90-

UNIVERSITY TIRE & SERVIC				
Sum				67.90-
00001 W GEOTECHNICAL AND TESTI 4340	00200984 19006438 SERVS PUBLIC SAFETY COMPLEX	07/31/20	278202	3,612.50-

W GEOTECHNICAL AND TESTI				
Sum				3,612.50-
00001 WARING OIL CO (GULFPORT) 001877837	00200438 19006190 CHEMICALS SANIT	07/31/20	278204	425.70-
00001 WARING OIL CO (GULFPORT) 001880070	00200700 19006300 MOTOR OIL SANIT DEPT	07/31/20	278204	2,396.00-

WARING OIL CO (GULFPORT)				
Sum				2,821.70-
00001 WARREN PAVING INC 195180.1	00195180 19006336 PAVING JORDAN STREET	07/31/20	278208	5,776.36-
00001 WARREN PAVING INC 199289.1	00199289 19006337 PAVING JORDAN AVENUE	07/31/20	278208	5,722.71-
00001 WARREN PAVING INC 195179.1(A)	00195179 19006382 PAVING IDA STREET	07/31/20	278208	93,000.00-
00001 WARREN PAVING INC 195185.1(A)	00195185 19006383 PAVING BAXTER STREET	07/31/20	278208	19,089.00-
00001 WARREN PAVING INC 195179.1(B)	00200899 19006384 ADDL AMT DUE PO#195179	07/31/20	278208	3,271.96-
00001 WARREN PAVING INC 195185.1(B)	00200900 19006385 ADDL AMT DUE PO#195185	07/31/20	278208	2,172.19-

WARREN PAVING INC				
Sum				129,032.22-
00001 WASTE MANAGEMENT OF SOUT 0012242-2526	00200940 19006395 RUBBISH DISPOSAL 7/1-15 SANIT	07/31/20	278210	1,023.74-

WASTE MANAGEMENT OF SOUT				
Sum				1,023.74-
00001 WATERS INTERNATIONAL TRU 08S822506	00200631 19006189 A/C REPR U#16007 PUBLIC WORKS	07/31/20	278211	721.40-
00001 WATERS INTERNATIONAL TRU 08P889505	00199027 19006234 REPR PTS U#14409 SANIT	07/31/20	278211	44.16-
00001 WATERS INTERNATIONAL TRU 08P891938	00200299 19006235 MUD FLAPS ALL GARBAGE UNITS	07/31/20	278211	115.60-

WATERS INTERNATIONAL TRU				
Sum				881.16-
00001 WHEELER'S JANITORIAL SUP 0405644	00197861 19006406 JANIT SUPP TRAIN DEPOT	07/31/20	278214	191.60-

WHEELER'S JANITORIAL SUP				
Sum				191.60-

00001 WORKWELL SERVICES (NEW V 51682	00200758 19006204 6/2020 DRUG SCREENS	07/31/20	278218	432.00-

WORKWELL SERVICES (NEW V				432.00-
Sum				-----
Sum				2,175,170.02-

CITY OF HATTIESBURG

DOCKET OF CLAIMS

Date - 07/29/20

PERIOD ENDING JULY 31, 2020

Vendor	Invoice Number	Purchase Order	Claims Number	Item Description	Check Date	Check No.	Check Amount
PARKS & RECREATION FUND							
00002 A & R FARM AND GARDEN	349715	00200732	19001437	MINOR EQUIP GRNDS MAINT	07/31/20	278009	141.00-

A & R FARM AND GARDEN							
Sum							141.00-
00002 ALLBRITTON CHAIN SAW & L	72671	00200329	19001416	WEEDEATER REPR PTS U#21162	07/31/20	278015	89.98-

ALLBRITTON CHAIN SAW & L							
Sum							89.98-
00002 AT&T MOBILITY	287273578351	00200729	19001405	WIRELESS SERV 6/20 PKS/REC	07/31/20	278023	502.29-

AT&T MOBILITY							
Sum							502.29-
00002 BRACKMAN MOWER WAREHOUSE	55022	00200528	19001417	REPRS U#19303 MOWER	07/31/20	278031	279.20-
00002 BRACKMAN MOWER WAREHOUSE	55024	00200530	19001418	REPRS U#21096 MOWER	07/31/20	278031	162.23-
00002 BRACKMAN MOWER WAREHOUSE	55025	00200531	19001419	REPRS U#20823 MOWER	07/31/20	278031	272.73-
00002 BRACKMAN MOWER WAREHOUSE	55026	00200532	19001420	REPRS U#21097 MOWER	07/31/20	278031	126.73-
00002 BRACKMAN MOWER WAREHOUSE	55027	00200533	19001421	REPRS U#21325 MOWER	07/31/20	278031	162.23-
00002 BRACKMAN MOWER WAREHOUSE	55029	00200534	19001422	REPRS U#20744 MOWER	07/31/20	278031	162.23-
00002 BRACKMAN MOWER WAREHOUSE	55030	00200535	19001423	REPRS U#20745 MOWER	07/31/20	278031	211.33-
00002 BRACKMAN MOWER WAREHOUSE	55031	00200536	19001424	REPRS U#20234 MOWER	07/31/20	278031	202.23-
00002 BRACKMAN MOWER WAREHOUSE	55324	00200683	19001426	WEEDEATER PTS/SUPP GRNDS MNT	07/31/20	278031	415.00-
00002 BRACKMAN MOWER WAREHOUSE	54634	00200233	19001430	REPR PTS U#20233 MOWER	07/31/20	278031	28.00-
00002 BRACKMAN MOWER WAREHOUSE	54774	00200316	19001431	REPRS U#21324 MOWER	07/31/20	278031	504.73-
00002 BRACKMAN MOWER WAREHOUSE	54773	00200317	19001432	REPRS U#19303 MOWER	07/31/20	278031	557.19-
00002 BRACKMAN MOWER WAREHOUSE	54788	00200318	19001433	REPRS U#20234 MOWER	07/31/20	278031	92.95-
00002 BRACKMAN MOWER WAREHOUSE	54780	00200319	19001434	REPRS U#17085 MOWER	07/31/20	278031	36.14-
00002 BRACKMAN MOWER WAREHOUSE	54789	00200320	19001435	REPRS U#19464 MOWER	07/31/20	278031	214.20-
00002 BRACKMAN MOWER WAREHOUSE	54828	00200386	19001436	REPRS U#18576 MOWER	07/31/20	278031	80.00-

BRACKMAN MOWER WAREHOUSE							
Sum							3,507.12-
00002 BURGE EXCAVATING & GRADI	1453	00200622	19001427	BALLFIELD DIRT CAMERON FIELD	07/31/20	278032	700.00-

BURGE EXCAVATING & GRADI							
Sum							700.00-
00002 CINTAS CORPORATION #J66	4054114550	00200714	19001408	UNIFORMS 6/25 GRNDS MAINT	07/31/20	278046	14.93-
00002 CINTAS CORPORATION #J66	4054849403	00200714	19001409	MOP/MAT 7/02 GRNDS MAINT	07/31/20	278046	14.93-
00002 CINTAS CORPORATION #J66	4055393040	00200714	19001410	MOP/MAT 7/09 GRNDS MAINT	07/31/20	278046	14.93-
00002 CINTAS CORPORATION #J66	4056070569	00200714	19001411	MOP/MAT 7/16 GRNDS MAINT	07/31/20	278046	14.93-
00002 CINTAS CORPORATION #J66	4055393049	00200714	19001412	UNIFORMS 7/09 GRNDS MAINT	07/31/20	278046	129.55-

00002 CINTAS CORPORATION #J66	4054114778	00200714 19001413	UNIFORMS 6/25 GRNDS MAINT	07/31/20	278046	129.55-
00002 CINTAS CORPORATION #J66	4054849491	00200714 19001414	UNIFORMS 7/02 GRNDS MAINT	07/31/20	278046	129.55-
00002 CINTAS CORPORATION #J66	4056070857	00200714 19001415	UNIFORMS 7/16 GRNDS MAINT	07/31/20	278046	129.55-

CINTAS CORPORATION #J66						
Sum						577.92-
00002 CITY OF HATTIESBURG FUND	TRF 3RD 7/20	02020722 19001465	TRF 3RD 7/20 PAYROLL	07/28/20	20021	50,995.59-

CITY OF HATTIESBURG FUND						
Sum						50,995.59-
00002 CLEMTS HARDWARE	125583	00200686 19001428	REPR PTS/WTR COOLERS	07/31/20	278047	167.95-
00002 CLEMTS HARDWARE	125621	00200803 19001462	BACK PACK SPRAYER GRNDS MAINT	07/31/20	278047	99.99-

CLEMTS HARDWARE						
Sum						267.94-
00002 CONNER, TOBARRA	SPORTS SERV	02020716 19001454	SPORTS SUPPORT SERVICES	07/31/20	278051	48.00-
00002 CONNER, TOBARRA	SPORTS SERV	02020716 19001457	SPORTS SUPPORT SERVICES	07/31/20	278051	40.00-

CONNER, TOBARRA						
Sum						88.00-
00002 DOLEAC ELECTRIC CO INC	H23634	00200804 19001439	LIGHT REPAIR TATUM BASEBALL	07/31/20	278057	542.62-

DOLEAC ELECTRIC CO INC						
Sum						542.62-
00002 ECONOMY SUPPLY CO	037253	00200701 19001429	LOCKS/BOLTS GRNDS MAINT	07/31/20	278060	216.00-

ECONOMY SUPPLY CO						
Sum						216.00-
00002 ELKINS WHOLESALE INC	422595	00200285 19001459	JANIT SUPP GRNDS MAINT	07/31/20	278062	565.40-
00002 ELKINS WHOLESALE INC	424556	00200684 19001460	JANIT SUPP GRNDS MAINT	07/31/20	278062	628.90-

ELKINS WHOLESALE INC						
Sum						1,194.30-
00002 ESTERS, WILLARD (BUTCH)	OFFICIAL 7/1	02020715 19001443	OFFICIAL-ADULT SOFTBALL	07/31/20	278067	80.00-

ESTERS, WILLARD (BUTCH)						
Sum						80.00-
00002 FAGAN TREE AND SPRAYING	3361	00200486 19001438	LABOR TO SPRAY ALL BALLFIELDS	07/31/20	278068	4,000.00-

FAGAN TREE AND SPRAYING						
Sum						4,000.00-
00002 FASTENAL COMPANY	MSHAT226584	00200412 19001461	SAFETY VESTS GRNDS CREWS	07/31/20	278069	494.55-

FASTENAL COMPANY						
Sum						494.55-
00002 FLETCHER, JERRY D	OFFICIAL 7/1	02020715 19001445	OFFICIAL-ADULT SOFTBALL	07/31/20	278070	115.00-
00002 FLETCHER, JERRY D	OFFICIAL 7/1	02020715 19001450	OFFICIAL-KICKBALL	07/31/20	278070	60.00-

FLETCHER, JERRY D						
Sum						175.00-

00002 GILKEY ELECTRIC SUPPLY C 324250	00199827 19001463 ELEC SUPP TOWN SQUARE PARK	07/31/20	278075	2,509.00-

GILKEY ELECTRIC SUPPLY C				
Sum				2,509.00-
00002 GRAY, GLENN E	OFFICIAL 7/1 02020715 19001446 OFFICIAL-ADULT SOFTBALL	07/31/20	278078	40.00-
00002 GRAY, GLENN E	OFFICIAL 7/1 02020715 19001451 OFFICIAL-KICKBALL	07/31/20	278078	60.00-

GRAY, GLENN E				
Sum				100.00-
00002 HAVARD PEST CONTROL INC 1632302	00020208 19001472 QTRLY SRV TATUM PARK	07/31/20	278090	69.00-
00002 HAVARD PEST CONTROL INC 1631919	00020208 19001473 QTRLY SRV TATUM SOFTBALL	07/31/20	278090	125.00-
00002 HAVARD PEST CONTROL INC 1607292	00020208 19001474 QTRLY SRV SAN ANTONIO FLD	07/31/20	278090	70.00-

HAVARD PEST CONTROL INC				
Sum				264.00-
00002 HOMESTEAD DIRT WORKS & M 1136	00200629 19001440 MULCH/UNDERBRUSH TIMBERTON	07/31/20	278094	4,050.00-

HOMESTEAD DIRT WORKS & M				
Sum				4,050.00-
00002 JACKSON MICHAEL THOMAS	PO#199668 7/ 00199668 19001470 PAINT HARDY ST SIGNAL BOX	07/31/20	278100	500.00-

JACKSON MICHAEL THOMAS				
Sum				500.00-
00002 JACKSON, TINA	OFFICIAL 7/1 02020715 19001448 OFFICIAL-ADULT SOFTBALL	07/31/20	278101	145.00-
00002 JACKSON, TINA	OFFICIAL 7/1 02020715 19001452 OFFICIAL-KICKBALL	07/31/20	278101	80.00-

JACKSON, TINA				
Sum				225.00-
00002 JEFcoat FENCE OF HATTIES 0022271	00200137 19001425 DUMPSTER FENCING KAMPER PARK	07/31/20	278102	950.00-

JEFcoat FENCE OF HATTIES				
Sum				950.00-
00002 KETTLEY, ANNETTE	SPORTS SERVS 02020716 19001453 SPORTS SUPPORT SERVICES	07/31/20	278107	56.00-

KETTLEY, ANNETTE				
Sum				56.00-
00002 KETTLEY, VERONICA	SPORTS SERVS 02020716 19001458 SPORTS SUPPORT SERVICES	07/31/20	278108	24.00-

KETTLEY, VERONICA				
Sum				24.00-
00002 MCQUAGGE PRODUCTIONS 1282	00200988 19001475 LABOR TO SERVICE PA SYSTEMS	07/31/20	278122	425.00-

MCQUAGGE PRODUCTIONS				
Sum				425.00-
00002 MS POWER COMPANY	7/20 PKS/REC 00202020 19001471 MNTHLY ELEC-PARKS & REC	07/31/20	278132	14,241.04-

MS POWER COMPANY				
Sum				14,241.04-

00002 MS STATE/DEPT OF HEALTH/	21-125986 PK	00200724	19001404	BOILER/PRESSURE INSP VARI LOC	07/31/20	278133	240.00-
00002 MS STATE/DEPT OF HEALTH/	21-126045 PK	00200723	19001406	BOILER/PRESSURE INSP VARI LOC	07/31/20	278133	150.00-

MS STATE/DEPT OF HEALTH/							
Sum							390.00-
00002 NEWELL PAPER COMPANY	4087191	00200685	19001442	WASP SPRAY GRNDS MAINT	07/31/20	278138	288.00-

NEWELL PAPER COMPANY							
Sum							288.00-
00002 OFFICE DEPOT INC	2419593545	00200751	19001466	OFFICE SUPP TATUM REC	07/31/20	278140	194.97-

OFFICE DEPOT INC							
Sum							194.97-
00002 POWELL, RANDY	OFFICIAL 7/1	02020715	19001449	OFFICIAL-KICKBALL	07/31/20	278150	80.00-
00002 POWELL, RANDY	SPORTS SERVS	02020716	19001455	SPORTS SUPPORT SERVICES	07/31/20	278150	80.00-
00002 POWELL, RANDY	SPORTS SERVS	02020716	19001456	SPORTS SUPPORT SERVICES	07/31/20	278150	16.00-

POWELL, RANDY							
Sum							176.00-
00002 ROTO-ROOTER	105753585	00200739	19001407	PLUMB REPR TATUM BATHROOM	07/31/20	278164	262.58-

ROTO-ROOTER							
Sum							262.58-
00002 SMITH, CARLTON L	OFFICIAL 7/1	02020715	19001447	OFFICIAL-ADULT SOFTBALL	07/31/20	278176	120.00-

SMITH, CARLTON L							
Sum							120.00-
00002 SOUTHERN TIRE MART LLC (	2520037539	00200226	19001467	TIRES U#20420 TRUCK	07/31/20	278184	580.00-
00002 SOUTHERN TIRE MART LLC (	2520039803	00200881	19001468	TIRE REPR U#9603 TRUCK	07/31/20	278184	16.25-
00002 SOUTHERN TIRE MART LLC (	2520039581	00200914	19001469	TIRE REPR U#21097 TRUCK	07/31/20	278184	33.54-
00002 SOUTHERN TIRE MART LLC (	2520038466	00200468	19001476	TIRE REPR U#21923 TRAILER	07/31/20	278184	21.00-

SOUTHERN TIRE MART LLC (							
Sum							650.79-
00002 TERRELL, WINSTON	OFFICIAL 7/1	02020715	19001444	OFFICIAL-ADULT SOFTBALL	07/31/20	278191	130.00-

TERRELL, WINSTON							
Sum							130.00-
00002 WEBBS PAINT COMPANY	701547	00200242	19001464	LABOR PRESS WASH PINE ST GARG	07/31/20	278213	12,375.00-

WEBBS PAINT COMPANY							
Sum							12,375.00-
00002 WILSON, STORMY (REFUNDS)	TOWN SQ PARK	02020713	19001441	TOWN SQ PARK RFD #73375	07/31/20	278217	125.00-

WILSON, STORMY (REFUNDS)							
Sum							125.00-

Sum							101,628.69-

PERIOD ENDING JULY 31, 2020

Date

- 07/29/20

Vendor

Invoice
Number

Purchase Order

Claims
Number

Item	Description
------	-------------

Check
Date

Check
No.

Check
Amount

PAYROLL FUND

00006 PROVIDENT LIFE AND ACCID 7/2020

02020127 19000392 EMPLOYEE CONTRIBUTIONS 7/2020

07/21/20

60165

1,457.79-

PROVIDENT LIFE AND ACCID

Sum

1,457.79-

Sum

1,457.79-

Date - 07/29/20

Vendor	Invoice Number	Purchase Order	Claims Number	Item Description	Check Date	Check No.	Check Amount
WATER & SEWER OPERATION/MAINT.							
00009 AB SUPPORT SERVICES	010086 WTR B	00200382	19001583	JANIT SERV 7/20 WTR BILLING	07/31/20	278011	550.00-
AB SUPPORT SERVICES							
Sum							550.00-
00009 ALLBRITTON CHAIN SAW & L 72996		00200680	19001592	MOWER REPAIR SEWER DEPT	07/31/20	278015	310.15-
00009 ALLBRITTON CHAIN SAW & L 72992		00200680	19001593	MOWER REPAIR SEWER DEPT	07/31/20	278015	108.96-
00009 ALLBRITTON CHAIN SAW & L 72989		00200680	19001594	MOWER REPAIR SEWER DEPT	07/31/20	278015	120.21-
00009 ALLBRITTON CHAIN SAW & L 72995		00200680	19001595	MOWER REPAIR SEWER DEPT	07/31/20	278015	130.66-
00009 ALLBRITTON CHAIN SAW & L 72994		00200680	19001596	MOWER REPAIR SEWER DEPT	07/31/20	278015	152.51-
00009 ALLBRITTON CHAIN SAW & L 72993		00200680	19001597	MOWER REPAIR SEWER DEPT	07/31/20	278015	158.42-
00009 ALLBRITTON CHAIN SAW & L 72997		00200680	19001598	MOWER BLADES SEWER DEPT	07/31/20	278015	585.00-
ALLBRITTON CHAIN SAW & L							
Sum							1,565.91-
00009 ALLIED UNIVERSAL CORP	I1644949	00200786	19001673	CHEMICALS WTR PLT #2	07/31/20	278016	2,348.60-
00009 ALLIED UNIVERSAL CORP	I1644950	00200786	19001674	CHEMICALS WTR PLT #1	07/31/20	278016	1,174.30-
00009 ALLIED UNIVERSAL CORP	I1644460	00200633	19001680	CHEMICALS FORREST GEN TANK	07/31/20	278016	976.00-
00009 ALLIED UNIVERSAL CORP	I1644461	00200633	19001681	CHEMICALS WESLEY TANK	07/31/20	278016	610.00-
ALLIED UNIVERSAL CORP							
Sum							5,108.90-
00009 AT&T MOBILITY	287273578351	00200729	19001569	WIRELESS SRV 6/2020 W&SO&M	07/31/20	278023	588.18-
AT&T MOBILITY							
Sum							588.18-
00009 AUTO ARMATURE SERVICE IN 21709		00200669	19001599	BATTERY U#19751 WTR BILLING	07/31/20	278026	140.95-
AUTO ARMATURE SERVICE IN							
Sum							140.95-
00009 BONNER ANALYTICAL TESTIN 72007		00200774	19001584	COLIFORM TESTS ADELINE/WDHAVN	07/31/20	278029	106.00-
00009 BONNER ANALYTICAL TESTIN 72027		00200839	19001613	COLIFORM TESTING VARI LOC	07/31/20	278029	106.00-
BONNER ANALYTICAL TESTIN							
Sum							212.00-
00009 BYRD, WADE J.	JULY 2020 CO	00200772	19001585	CERT WTR OPERATOR 7/20 FEE	07/31/20	278033	3,000.00-
BYRD, WADE J.							
Sum							3,000.00-
00009 CARQUEST AUTO PARTS STOR 14758-144619		00200738	19001591	REPR PTS U#18564 SEWER DEPT	07/31/20	278036	86.67-
CARQUEST AUTO PARTS STOR							
Sum							86.67-

00009 CENTRAL PIPE SUPPLY INC	S100221007.0	00200148	19001656	BADGER METERS TRANS STOCK	07/31/20	278038	7,113.60-

CENTRAL PIPE SUPPLY INC							
Sum							7,113.60-
00009 CERTIFIED LABORATORIES	3963558	00199320	19001606	CHEMICALS FOR LIFT STATIONS	07/31/20	278039	2,144.50-
00009 CERTIFIED LABORATORIES	7043350	00200766	19001682	CHEMICALS SEWER DEPT	07/31/20	278039	9,032.70-

CERTIFIED LABORATORIES							
Sum							11,177.20-
00009 CINTAS CORPORATION #J66	4056280478	00200792	19001601	UNIFORMS 7/20 PLANT	07/31/20	278046	79.91-
00009 CINTAS CORPORATION #J66	4056280478	00200792	19001602	UNIFORMS 7/20 SEWER	07/31/20	278046	28.80-
00009 CINTAS CORPORATION #J66	4056280478	00200792	19001603	UNIFORMS 7/20 SEWER	07/31/20	278046	104.85-
00009 CINTAS CORPORATION #J66	4056280478	00200792	19001604	UNIFORMS 7/20 LAGOON	07/31/20	278046	19.36-
00009 CINTAS CORPORATION #J66	4056280176	00200791	19001605	MOP/MAT 7/20 PLANT	07/31/20	278046	21.88-
00009 CINTAS CORPORATION #J66	4056280882	00200912	19001660	UNIFORMS 7/20 WTR SERVICE MEN	07/31/20	278046	47.92-
00009 CINTAS CORPORATION #J66	4056925681	00200912	19001661	UNIFORMS 7/27 WTR SERVICE MEN	07/31/20	278046	47.92-
00009 CINTAS CORPORATION #J66	4056925624	00200921	19001662	UNIFORMS 7/27 PLANT	07/31/20	278046	47.41-
00009 CINTAS CORPORATION #J66	4056925624	00200921	19001663	UNIFORMS 7/27 SEWER	07/31/20	278046	56.30-
00009 CINTAS CORPORATION #J66	4056925624	00200921	19001664	UNIFORMS 7/27 SEWER	07/31/20	278046	155.80-
00009 CINTAS CORPORATION #J66	4056925624	00200921	19001665	UNIFORMS 7/27 LAGOON	07/31/20	278046	19.36-
00009 CINTAS CORPORATION #J66	4056925496	00200920	19001666	MOP/MAT 7/27 PLANT	07/31/20	278046	21.88-

CINTAS CORPORATION #J66							
Sum							651.39-
00009 CITY OF HATTIESBURG FUND	TRF 3RD 7/20	02020722	19001670	TRF 3RD 7/20 PAYROLL	07/28/20	90022	88,284.76-

CITY OF HATTIESBURG FUND							
Sum							88,284.76-
00009 CONSOLIDATED PIPE & SPLY	0404135-000-	00200524	19001617	PLUMB SUPP WTR TRANS STOCK	07/31/20	278052	1,267.50-
00009 CONSOLIDATED PIPE & SPLY	0404136-000-	00200524	19001618	PLUMB SUPP WTR TRANS STOCK	07/31/20	278052	111.50-
00009 CONSOLIDATED PIPE & SPLY	0404137-000-	00200524	19001619	PLUMB SUPP WTR TRANS STOCK	07/31/20	278052	845.00-

CONSOLIDATED PIPE & SPLY							
Sum							2,224.00-
00009 EAGLE PIPE & SUPPLY LLC	59501	00200898	19001668	MANHOLE LIFTERS SEWER DEPT	07/31/20	278058	2,244.00-

EAGLE PIPE & SUPPLY LLC							
Sum							2,244.00-
00009 GILKEY ELECTRIC SUPPLY C	325145	00200347	19001600	ELEC SUPP PLT#2 LIGHTS	07/31/20	278075	290.00-

GILKEY ELECTRIC SUPPLY C							
Sum							290.00-
00009 GILLILANDS ELECTRONICS S	72336	00200945	19001671	MNTHLY PHONE SYS RENT WTR PLT	07/31/20	278076	148.16-

GILLILANDS ELECTRONICS S							
Sum							148.16-
00009 HAVARD PEST CONTROL INC	1631939	00020208	19001677	QTRLY SRV WTR PLT LOWER	07/31/20	278090	48.00-
00009 HAVARD PEST CONTROL INC	1631940	00020208	19001678	QTRLY SRV WTR PLT UPPER	07/31/20	278090	50.00-

HAVARD PEST CONTROL INC							
Sum							98.00-

00009 L & A CONTRACTING CO	483-164	00200733 19001582 AERATOR MNT 6/29-7/23 LAGOONS	07/31/20	278111	36,812.50-

L & A CONTRACTING CO					
Sum					36,812.50-
00009 MCELHANEY PLUMBING INC	285721	00200632 19001610 FAUCET WTR PLT#2 LAB	07/31/20	278121	249.95-
00009 MCELHANEY PLUMBING INC	285818	00200820 19001612 PLUMB SUPP SEWER DEPT	07/31/20	278121	19.95-
00009 MCELHANEY PLUMBING INC	285695	00200561 19001679 CUTTER WHEELS WTR TRANS DEPT	07/31/20	278121	155.40-

MCELHANEY PLUMBING INC					
Sum					425.30-
00009 MISSION COMMUNICATIONS	1042577	00200767 19001586 ANNUAL SERVICE CONTRACT	07/31/20	278125	1,042.20-

MISSION COMMUNICATIONS					
Sum					1,042.20-
00009 MS GRASS NURSERY	31364	00200205 19001616 GRASS SOD SEWER DEPT	07/31/20	278131	130.00-

MS GRASS NURSERY					
Sum					130.00-
00009 MS POWER COMPANY	7/20 W&SO&M	00202020 19001676 MNTHLY ELEC-W&SO&M	07/31/20	278132	79,171.73-

MS POWER COMPANY					
Sum					79,171.73-
00009 MS STATE/DEPT OF HEALTH/	21-125986 W&	00200724 19001568 BOILER/PRESSURE INSP VARI LOC	07/31/20	278133	150.00-

MS STATE/DEPT OF HEALTH/					
Sum					150.00-
00009 NEWELL PAPER COMPANY	4087172	00200688 19001620 TRASH BAGS SEWER GRNDS CREW	07/31/20	278138	122.52-

NEWELL PAPER COMPANY					
Sum					122.52-
00009 PATTERSON AUTO ELECTRIC	80685	00200661 19001589 REPAIRS TRANS DEPT TRAILER	07/31/20	278143	828.26-
00009 PATTERSON AUTO ELECTRIC	80684	00200695 19001590 REPAIRS U#20046 TRANS	07/31/20	278143	2,425.59-

PATTERSON AUTO ELECTRIC					
Sum					3,253.85-
00009 PEARL RIVER VALLEY EPA (	7/20 W&SO&M	00202020 19001669 MNTHLY 7/20 PUBLIC SERVICES	07/31/20	278145	50.00-

PEARL RIVER VALLEY EPA (					
Sum					50.00-
00009 RAWLS SPRINGS UTILITY DI	SEWER BILLIN	00200835 19001609 SEWER BILLING 7/2020	07/31/20	278154	194.00-

RAWLS SPRINGS UTILITY DI					
Sum					194.00-
00009 RJM MCQUEEN CONTRACTING	2176	00200731 19001570 JUNE 2020 PUMPING	07/31/20	278163	4,219.00-
00009 RJM MCQUEEN CONTRACTING	2177	00200731 19001571 SWR REPR GREENWOOD PL/S 34TH	07/31/20	278163	15,710.02-
00009 RJM MCQUEEN CONTRACTING	2178	00200731 19001572 SWR REPR MEMPHIS ST/E 7TH	07/31/20	278163	5,941.80-
00009 RJM MCQUEEN CONTRACTING	2179	00200731 19001573 SWR REPR CHARLES ST/REBECCA	07/31/20	278163	5,855.96-
00009 RJM MCQUEEN CONTRACTING	2180	00200731 19001574 SWR REPR ESSEX ST/S 37TH AVE	07/31/20	278163	10,317.00-
00009 RJM MCQUEEN CONTRACTING	2181	00200731 19001575 SWR REPR HILLSIDE DR/S 28TH	07/31/20	278163	9,564.10-
00009 RJM MCQUEEN CONTRACTING	2182	00200731 19001576 SWR REPR MCLELLAND/MOHAWK	07/31/20	278163	6,217.00-
00009 RJM MCQUEEN CONTRACTING	2183	00200731 19001577 SWR REPR MCSWAIN/REBECCA	07/31/20	278163	18,594.80-
00009 RJM MCQUEEN CONTRACTING	2184	00200731 19001578 SWR REPR LEXINGTON/RICHBURG	07/31/20	278163	2,229.00-

00009	RJM MCQUEEN CONTRACTING	2185	00200731	19001579	SWR REPR BERSHIRE/BRIARCLIFF	07/31/20	278163	3,951.00-
00009	RJM MCQUEEN CONTRACTING	2186	00200731	19001580	SWR REPR SULLIVAN/S HILL RD	07/31/20	278163	3,803.96-
00009	RJM MCQUEEN CONTRACTING	2187	00200731	19001581	SWR REPR S 11TH/CAMP ST	07/31/20	278163	2,113.00-
00009	RJM MCQUEEN CONTRACTING	2189	00200924	19001657	SWR REPR MCINNIS LP/BROADWAY	07/31/20	278163	10,136.00-
00009	RJM MCQUEEN CONTRACTING	2188	00200924	19001658	SWR REPR PEARL ST & N 40TH	07/31/20	278163	21,023.04-
00009	RJM MCQUEEN CONTRACTING	2190	00200924	19001659	SWR REPR SOUTHERN AVE & RONIE	07/31/20	278163	8,103.40-

RJM MCQUEEN CONTRACTING								
Sum								
00009	SECURITY BLANKET	144837	00200855	19001614	REPR SECURITY CAMS PLT #2	07/31/20	278167	127,779.08-

SECURITY BLANKET								
Sum								
00009	SOUTHERN EXTERIORS FENCE	11505	00196031	19001611	CHAIN LINK FENCE WTR PLT #1	07/31/20	278180	75.00-

SOUTHERN EXTERIORS FENCE								
Sum								
00009	SOUTHERN PINE ELECTRIC P 7/20 W&SO&M		00202019	19001672	MNTHLY 7/20 PUBLIC SERVICES	07/31/20	278182	11,450.00-

SOUTHERN PINE ELECTRIC P								
Sum								
00009	SPIRE ENERGY	7/20 W&SO&M	00202020	19001675	MNTHLY GAS-W&SO&M	07/31/20	278187	616.66-

SPIRE ENERGY								
Sum								
00009	STANDARD OFFICE SUPPLY C 5201880-0		00200616	19001587	OFFICE SUPP WTR BILLING	07/31/20	278188	288.40-
00009	STANDARD OFFICE SUPPLY C 5201880-1		00200616	19001588	OFFICE SUPP WTR BILLING	07/31/20	278188	196.99-
00009	STANDARD OFFICE SUPPLY C 5201955-0		00200765	19001607	OFFICE SUPP WTR BILLING	07/31/20	278188	102.56-
00009	STANDARD OFFICE SUPPLY C 5201955-1		00200765	19001608	OFFICE SUPP WTR BILLING	07/31/20	278188	44.67-
00009	STANDARD OFFICE SUPPLY C 5201981-0		00200834	19001667	OFFICE SUPP WTR BILLING	07/31/20	278188	128.78-

STANDARD OFFICE SUPPLY C								
Sum								
00009	UNDERWOOD OUTDOOR POWER, 85149		00199130	19001621	MOWER REPR SEWER DEPT	07/31/20	278198	601.22-

UNDERWOOD OUTDOOR POWER,								
Sum								
00009	WALTER, PAUL & SON WELDI 3011		00200066	19001615	MOWER DECK REPR WTR PLANT	07/31/20	278203	294.16-

WALTER, PAUL & SON WELDI								
Sum								
00009	WARREN PAVING INC	33058	00199259	19001622	HOT ASPHALT WTR/SWR PATCHES	07/31/20	278208	60.00-
00009	WARREN PAVING INC	33065	00199259	19001623	HOT ASPHALT WTR/SWR PATCHES	07/31/20	278208	117.60-
00009	WARREN PAVING INC	33094	00199259	19001624	HOT ASPHALT WTR/SWR PATCHES	07/31/20	278208	358.93-
00009	WARREN PAVING INC	33210	00199259	19001625	HOT ASPHALT WTR/SWR PATCHES	07/31/20	278208	290.94-
00009	WARREN PAVING INC	33235	00199259	19001626	HOT ASPHALT WTR/SWR PATCHES	07/31/20	278208	311.77-
00009	WARREN PAVING INC	33281	00199259	19001627	HOT ASPHALT WTR/SWR PATCHES	07/31/20	278208	270.73-
00009	WARREN PAVING INC	33337	00199259	19001628	HOT ASPHALT WTR/SWR PATCHES	07/31/20	278208	183.14-
00009	WARREN PAVING INC	33359	00199259	19001629	HOT ASPHALT WTR/SWR PATCHES	07/31/20	278208	185.59-
00009	WARREN PAVING INC	33417	00199259	19001630	HOT ASPHALT WTR/SWR PATCHES	07/31/20	278208	241.33-
00009	WARREN PAVING INC	33466	00199259	19001631	HOT ASPHALT WTR/SWR PATCHES	07/31/20	278208	112.09-
00009	WARREN PAVING INC	33498	00199259	19001632	HOT ASPHALT WTR/SWR PATCHES	07/31/20	278208	292.77-

WARREN PAVING INC								
Sum								
00009	WARREN PAVING INC	33058	00199259	19001622	HOT ASPHALT WTR/SWR PATCHES	07/31/20	278208	140.88-

00009	WARREN	PAVING	INC	33580	00199259	19001633	HOT	ASPHALT	WTR/SWR	PATCHES	07/31/20	278208	237.65-
00009	WARREN	PAVING	INC	33658	00199259	19001634	HOT	ASPHALT	WTR/SWR	PATCHES	07/31/20	278208	179.46-
00009	WARREN	PAVING	INC	33703	00199259	19001635	HOT	ASPHALT	WTR/SWR	PATCHES	07/31/20	278208	180.08-
00009	WARREN	PAVING	INC	33733	00199259	19001636	HOT	ASPHALT	WTR/SWR	PATCHES	07/31/20	278208	257.86-
00009	WARREN	PAVING	INC	33807	00199259	19001637	HOT	ASPHALT	WTR/SWR	PATCHES	07/31/20	278208	181.91-
00009	WARREN	PAVING	INC	33835	00199259	19001638	HOT	ASPHALT	WTR/SWR	PATCHES	07/31/20	278208	185.59-
00009	WARREN	PAVING	INC	33875	00199259	19001639	HOT	ASPHALT	WTR/SWR	PATCHES	07/31/20	278208	93.10-
00009	WARREN	PAVING	INC	33925	00199259	19001640	HOT	ASPHALT	WTR/SWR	PATCHES	07/31/20	278208	66.15-
00009	WARREN	PAVING	INC	34011	00199259	19001641	HOT	ASPHALT	WTR/SWR	PATCHES	07/31/20	278208	61.25-
00009	WARREN	PAVING	INC	34149	00199259	19001642	HOT	ASPHALT	WTR/SWR	PATCHES	07/31/20	278208	190.49-
00009	WARREN	PAVING	INC	34184	00199259	19001643	HOT	ASPHALT	WTR/SWR	PATCHES	07/31/20	278208	540.23-
00009	WARREN	PAVING	INC	34252	00199259	19001644	HOT	ASPHALT	WTR/SWR	PATCHES	07/31/20	278208	230.91-
00009	WARREN	PAVING	INC	34365	00199259	19001645	HOT	ASPHALT	WTR/SWR	PATCHES	07/31/20	278208	126.79-
00009	WARREN	PAVING	INC	34371	00199259	19001646	HOT	ASPHALT	WTR/SWR	PATCHES	07/31/20	278208	121.28-
00009	WARREN	PAVING	INC	34410	00199259	19001647	HOT	ASPHALT	WTR/SWR	PATCHES	07/31/20	278208	170.89-
00009	WARREN	PAVING	INC	34497	00199259	19001648	HOT	ASPHALT	WTR/SWR	PATCHES	07/31/20	278208	296.46-
00009	WARREN	PAVING	INC	34519	00199259	19001649	HOT	ASPHALT	WTR/SWR	PATCHES	07/31/20	278208	117.60-
00009	WARREN	PAVING	INC	34545	00199259	19001650	HOT	ASPHALT	WTR/SWR	PATCHES	07/31/20	278208	198.45-
00009	WARREN	PAVING	INC	34644	00199259	19001651	HOT	ASPHALT	WTR/SWR	PATCHES	07/31/20	278208	180.69-
00009	WARREN	PAVING	INC	34666	00199259	19001652	HOT	ASPHALT	WTR/SWR	PATCHES	07/31/20	278208	122.50-
00009	WARREN	PAVING	INC	34714	00199259	19001653	HOT	ASPHALT	WTR/SWR	PATCHES	07/31/20	278208	168.44-
00009	WARREN	PAVING	INC	34766	00199259	19001654	HOT	ASPHALT	WTR/SWR	PATCHES	07/31/20	278208	203.97-
00009	WARREN	PAVING	INC	34811	00199259	19001655	HOT	ASPHALT	WTR/SWR	PATCHES	07/31/20	278208	249.29-

WARREN PAVING INC

Sum

6,866.81-

Sum

392,867.15-

CITY OF HATTIESBURG

DOCKET OF CLAIMS

Date

- 07/29/20

PERIOD ENDING JULY 31, 2020

Vendor	Invoice Number	Purchase Order	Claims Number	Item Description	Check Date	Check No.	Check Amount
WATER & SEWER FUND							
00011 ADELA INC (FORMERLY NS	040201490000	02020700	19000656	WATER COLLECTIONS FEES	07/31/20	278012	492.22-

ADELA INC (FORMERLY NS							492.22-
Sum							20.96-
00011 CARTER, ANDREA	METER DEP RF	02020714	19000685	METER DEPOSIT REFUND	07/31/20	278037	20.96-

CARTER, ANDREA							20.96-
Sum							37.04-
00011 COLONY CONSTRUCTION 129	WTR OVRPMT R	02020707	19000674	WATER OVERPAYMENT REFUND	07/31/20	278048	37.04-

COLONY CONSTRUCTION 129							37.04-
Sum							37.04-
00011 COLONY CONSTRUCTION 131	WTR OVRPMT R	02020707	19000675	WATER OVERPAYMENT REFUND	07/31/20	278049	37.04-

COLONY CONSTRUCTION 131							37.04-
Sum							35.52-
00011 EATON, LINDA W	WTR OVRPMT R	02020705	19000657	WATER OVERPAYMENT REFUND	07/31/20	278059	35.52-

EATON, LINDA W							35.52-
Sum							20.96-
00011 GORDON, RONICA RENAE	METER DEP RF	02020714	19000682	METER DEPOSIT REFUND	07/31/20	278077	20.96-

GORDON, RONICA RENAE							20.96-
Sum							20.96-
00011 GRENN, ARNOLD	METER DEP RF	02020704	19000667	METER DEPOSIT REFUND	07/31/20	278079	20.96-

GRENN, ARNOLD							20.96-
Sum							35.36-
00011 HALO DEVELOPMENT	METER DEP RF	02020714	19000683	METER DEPOSIT REFUND	07/31/20	278086	35.36-

HALO DEVELOPMENT							35.36-
Sum							75.00-
00011 HENDRY, JOSHUA	METER DEP RF	02020704	19000665	METER DEPOSIT REFUND	07/31/20	278091	75.00-

HENDRY, JOSHUA							75.00-
Sum							37.96-
00011 HESPEN, HALEY A	METER DEP RF	02020704	19000658	METER DEPOSIT REFUND	07/31/20	278092	37.96-

HESPEN, HALEY A							37.96-
Sum							1,080.00-
00011 IGLESIA MISIONERA PENTEC	WTR OVRPMT R	02020707	19000673	WATER OVERPAYMENT REFUND	07/31/20	278096	1,080.00-

IGLESIA MISIONERA PENTEC							1,080.00-
Sum							

00011 JONES, GRANT	METER DEP RF 02020714 19000686 METER DEPOSIT REFUND	07/31/20	278105	20.96-

JONES, GRANT				
Sum				20.96-
00011 KEYES, RUBY	METER DEP RF 02020714 19000679 METER DEPOSIT REFUND	07/31/20	278109	20.96-

KEYES, RUBY				
Sum				20.96-
00011 LANGHAM, DOROTHY	METER DEP RF 02020714 19000676 METER DEPOSIT REFUND	07/31/20	278115	20.00-

LANGHAM, DOROTHY				
Sum				20.00-
00011 LONDON &STETELMAN 606 ME	METER DEP RF 02020704 19000671 METER DEPOSIT REFUND	07/31/20	278119	75.00-

LONDON &STETELMAN 606 ME				
Sum				75.00-
00011 NAZARUK, AARON	METER DEP RF 02020704 19000663 METER DEPOSIT REFUND	07/31/20	278136	75.00-

NAZARUK, AARON				
Sum				75.00-
00011 NICE GUYS	WTR OVRPMT R 02020724 19000691 WATER OVERPAYMENT REFUND	07/31/20	278139	1,410.00-

NICE GUYS				
Sum				1,410.00-
00011 PARTRICK, KRISTINE	METER DEP RF 02020704 19000662 METER DEPOSIT REFUND	07/31/20	278142	20.96-

PARTRICK, KRISTINE				
Sum				20.96-
00011 PICASSO ESTATES LLC	METER DEP RF 02020714 19000689 METER DEPOSIT REFUND	07/31/20	278147	20.96-

PICASSO ESTATES LLC				
Sum				20.96-
00011 REAL, MICHAEL	METER DEP RF 02020714 19000680 METER DEPOSIT REFUND	07/31/20	278155	14.96-

REAL, MICHAEL				
Sum				14.96-
00011 REMAX REAL ESTATE 3501	METER DEP RF 02020704 19000668 METER DEPOSIT REFUND	07/31/20	278157	75.00-

REMAX REAL ESTATE 3501				
Sum				75.00-
00011 RICHARDSON WILLIE B	METER DEP RF 02020714 19000684 METER DEPOSIT REFUND	07/31/20	278159	20.96-

RICHARDSON WILLIE B				
Sum				20.96-
00011 SEGRETO, SOPHIA 1210 N 3	METER DEP RF 02020704 19000666 METER DEPOSIT REFUND	07/31/20	278168	20.96-

SEGRETO, SOPHIA 1210 N 3				
Sum				20.96-

00011 SIGMA PROPERTIES EL	METER DEP RF 02020714 19000688 METER DEPOSIT REFUND	07/31/20	278172	20.96-

SIGMA PROPERTIES EL				
Sum				20.96-
00011 SIGMA PROPERTIES 107	METER DEP RF 02020704 19000669 METER DEPOSIT REFUND	07/31/20	278173	75.00-

SIGMA PROPERTIES 107				
Sum				75.00-
00011 SIGMA 6	METER DEP RF 02020704 19000670 METER DEPOSIT REFUND	07/31/20	278174	75.00-

SIGMA 6				
Sum				75.00-
00011 SMITH AND SMITH LLC	METER DEP RF 02020704 19000660 METER DEPOSIT REFUND	07/31/20	278175	20.96-

SMITH AND SMITH LLC				
Sum				20.96-
00011 SMITH, DWIGHT	METER DEP RF 02020704 19000661 METER DEPOSIT REFUND	07/31/20	278177	30.36-

SMITH, DWIGHT				
Sum				30.36-
00011 SOUTHEASTERN CONCRETE CO	METER DEP RF 02020714 19000677 METER DEPOSIT REFUND	07/31/20	278179	200.00-
00011 SOUTHEASTERN CONCRETE CO	METER DEP RF 02020714 19000678 METER DEPOSIT REFUND	07/31/20	278179	200.00-

SOUTHEASTERN CONCRETE CO				
Sum				400.00-
00011 TEC LLC	METER DEP RF 02020714 19000687 METER DEPOSIT REFUND	07/31/20	278190	20.96-

TEC LLC				
Sum				20.96-
00011 THIBODEAUX GINA	METER DEP RF 02020714 19000681 METER DEPOSIT REFUND	07/31/20	278192	14.96-

THIBODEAUX GINA				
Sum				14.96-
00011 WARREN, CAROL	WTR OVRPMT R 02020707 19000672 WATER OVERPAYMENT REFUND	07/31/20	278209	91.92-

WARREN, CAROL				
Sum				91.92-
00011 WEARY, JESSICA M	METER DEP RF 02020704 19000659 METER DEPOSIT REFUND	07/31/20	278212	75.00-

WEARY, JESSICA M				
Sum				75.00-
00011 WILSON, GARLAND	METER DEP RF 02020704 19000664 METER DEPOSIT REFUND	07/31/20	278216	20.96-

WILSON, GARLAND				
Sum				20.96-
00011 WRIGHT, SANDY EL	METER DEP RF 02020714 19000690 METER DEPOSIT REFUND	07/31/20	278219	20.96-

WRIGHT, SANDY EL				
Sum				20.96-

Sum				4,555.78-

CITY OF HATTIESBURG

DOCKET OF CLAIMS

Date

- 07/29/20

PERIOD ENDING JULY 31, 2020

Vendor	Invoice Number	Purchase Order	Claims Number	Item Description	Check Date	Check No.	Check Amount
POLICE FORFEITURES FUND							
00019 TOSHIBA BUSINESS SOLUTIO	5157682	00200716	19000056	COPIER 6/1-7/31 COMM RELA	07/31/20	278193	254.51-
TOSHIBA BUSINESS SOLUTIO							
Sum							254.51-
Sum							254.51-

CITY OF HATTIESBURG

DOCKET OF CLAIMS

Date - 07/29/20

PERIOD ENDING JULY 31, 2020

Vendor	Invoice Number	Purchase Order	Claims Number	Item Description	Check Date	Check No.	Check Amount
MUNICIPAL ROAD & BRIDGE							
00072 SHOWS DEARMAN & WAITS IN	21526	00200976	19000171	SERVS RIDGEWAY LANE DRAINAGE	07/31/20	278171	1,137.50-
00072 SHOWS DEARMAN & WAITS IN	21501	00200977	19000172	SRVS N 31ST SIDEWLK ROW SURVY	07/31/20	278171	1,417.50-
00072 SHOWS DEARMAN & WAITS IN	21500	00200978	19000173	SRVS PARKING LOT E 4TH/MOBILE	07/31/20	278171	2,587.50-
00072 SHOWS DEARMAN & WAITS IN	21495	00200979	19000174	SRVS FEMA CULVERTS VARI LOC	07/31/20	278171	287.50-
00072 SHOWS DEARMAN & WAITS IN	21505	00200981	19000175	SRVS ML KING BOWLING/TUSCAN	07/31/20	278171	15,522.50-
00072 SHOWS DEARMAN & WAITS IN	21502	00200996	19000176	REVIEW HILND HILLS SUB PLAT	07/31/20	278171	1,770.00-
00072 SHOWS DEARMAN & WAITS IN	21529	00200975	19000177	SRVS S 28TH BRIDGE RPLCMNT	07/31/20	278171	775.00-
00072 SHOWS DEARMAN & WAITS IN	21513	00200980	19000178	SRVS C CLUB RD RECONSTRUCTION	07/31/20	278171	11,820.00-

SHOWS DEARMAN & WAITS IN							
Sum							35,317.50-

Sum							35,317.50-

00073 WILDSTONE CONSTRUCTION S APPL#3 BUS S 00200859 19000412 FINAL PYMT BUS STOPS PROJECT	07/31/20	278215	37,971.04-

WILDSTONE CONSTRUCTION S			
Sum			37,971.04-

Sum			82,704.40-

CITY OF HATTIESBURG

DOCKET OF CLAIMS

Date - 07/29/20

PERIOD ENDING JULY 31, 2020

Vendor	Invoice Number	Purchase Order	Claims Number	Item Description	Check Date	Check No.	Check Amount

WATER&SEWER CONSTRUCTION FUND							
00075 SHOWS DEARMAN & WAITS IN	21508	00200995	19000105	SRVS C CLUB RD WTR UPGRADES	07/31/20	278171	8,642.50-
00075 SHOWS DEARMAN & WAITS IN	21527	00201001	19000106	GENERAL SUPPORT & RESEARCH	07/31/20	278171	1,087.50-
00075 SHOWS DEARMAN & WAITS IN	21524	00201002	19000107	INFRASTRUCTURE MGMT PHASE 1	07/31/20	278171	8,200.00-
00075 SHOWS DEARMAN & WAITS IN	21520	00201003	19000108	SRVS EPA RESPONSE	07/31/20	278171	1,750.00-
00075 SHOWS DEARMAN & WAITS IN	21504	00201004	19000109	SRVS WTR PLT#1 REHAB	07/31/20	278171	7,545.00-
00075 SHOWS DEARMAN & WAITS IN	21525	00201005	19000110	SRVS LONGLEAF HEIGHTS NORTH	07/31/20	278171	35,917.80-
00075 SHOWS DEARMAN & WAITS IN	21523	00200994	19000111	WTR IMPRV AUDUBON/WWOOD/LWOOD	07/31/20	278171	11,066.10-
00075 SHOWS DEARMAN & WAITS IN	21539	00200999	19000112	SRVS 2017 WTR SYS IMPRVMNTS	07/31/20	278171	8,746.00-

SHOWS DEARMAN & WAITS IN							82,954.90-
Sum							
00075 U S GEOLOGICAL SURVEY	90826026	00200955	19000104	FLOOD MONITOR SIRE 10/19-9/20	07/31/20	278196	6,500.00-

U S GEOLOGICAL SURVEY							6,500.00-
Sum							
Sum							89,454.90-

PERIOD ENDING JULY 31, 2020

Date

- 07/29/20

Vendor	Invoice Number	Purchase Order	Claims Number	Item Description	Check Date	Check No.	Check Amount
COMMUNITY CENTERS' FUND							
00077 AT&T MOBILITY	287273578351	00200729	19000344	WIRELESS SRV 6/2020 COMM CTRS	07/31/20	278023	60.69-
AT&T MOBILITY							
Sum							60.69-
00077 CINTAS CORPORATION #J66	4051899188	00200773	19000346	UNIFORMS 6/01 COMM CENTERS	07/31/20	278046	61.60-
00077 CINTAS CORPORATION #J66	4052472206	00200773	19000347	UNIFORMS 6/08 COMM CENTERS	07/31/20	278046	61.60-
00077 CINTAS CORPORATION #J66	4053140235	00200773	19000348	UNIFORMS 6/15 COMM CENTERS	07/31/20	278046	181.60-
00077 CINTAS CORPORATION #J66	4053716456	00200773	19000349	UNIFORMS 6/22 COMM CENTERS	07/31/20	278046	61.60-
00077 CINTAS CORPORATION #J66	4054395668	00200773	19000350	UNIFORMS 6/29 COMM CENTERS	07/31/20	278046	73.72-
CINTAS CORPORATION #J66							
Sum							440.12-
00077 CITY OF HATTIESBURG FUND TRF 3RD 7/20	02020722	19000352	TRF 2RD 7/20	PAYROLL	07/28/20	770022	17,271.12-
CITY OF HATTIESBURG FUND							
Sum							17,271.12-
00077 GULF SOUTH PRODUCTIONS	1993	00200522	19000359	AUDIO/VISUAL COVID-19 MEETNGS	07/31/20	278083	3,000.00-
GULF SOUTH PRODUCTIONS							
Sum							3,000.00-
00077 HAVARD PEST CONTROL INC	1931925	00020208	19000357	QTRLY SRV SHERRILL CENTER	07/31/20	278090	115.00-
00077 HAVARD PEST CONTROL INC	1631931	00020208	19000358	QTRLY SRV CULTURAL CENTER	07/31/20	278090	48.00-
HAVARD PEST CONTROL INC							
Sum							163.00-
00077 HUGHES SUPPLY	S159106299.0	00200508	19000351	A/C REPR PTS SHERRILL CENTER	07/31/20	278095	399.00-
HUGHES SUPPLY							
Sum							399.00-
00077 MS POWER COMPANY	7/20 COMM CN	00202020	19000356	MNTHLY ELEC-COMM CENTERS	07/31/20	278132	3,277.86-
MS POWER COMPANY							
Sum							3,277.86-
00077 MS STATE/DEPT OF HEALTH/	21-125986 CO	00200724	19000343	BOILER/PRESSURE INSP CULT CTR	07/31/20	278133	30.00-
00077 MS STATE/DEPT OF HEALTH/	21-126045 CO	00200723	19000345	BOILER/PRESSURE INSP C CTRS	07/31/20	278133	180.00-
MS STATE/DEPT OF HEALTH/							
Sum							210.00-
00077 NEWELL PAPER COMPANY	4087448	00200768	19000353	BUG SPRAY COMM CENTERS	07/31/20	278138	60.00-
NEWELL PAPER COMPANY							
Sum							60.00-

00077 SPIRE ENERGY	7/20 COMM CN 00202020 19000355 MNTHLY GAS-COMM CENTERS	07/31/20	278187	47.80-

SPIRE ENERGY				
Sum				47.80-

Sum				24,929.59-

Date - 07/29/20

Vendor

Invoice
Number

Purchase Order

Claims
Number

Item	Description
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Check
Date

Check
No.

Check
Amount

PUBLIC SAFETY/REC CONSTRUCTION

00088	ALBERT & MCCLESKEY ASSOC	INVOICE NO.4	00200645	19000065	SERVS PUBLIC SAFETY COMPLEX	07/31/20	278014	18,000.00-
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ALBERT & MCCLESKEY ASSOC

Sum	18,000.00-
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Sum	18,000.00-
-----	------------

Date - 07/29/20

Vendor

Invoice
Number

Purchase Order

Claims
Number

Item	Description
------	-------------

Check
Date

Check
No.

Check
Amount

2019 FIRE STATION CONSTRUCTION

00095 HANCO CORP

EST#5 FIRE S 00200982 19000030 CONSTR FIRE STATION #9

07/31/20

278087

154,665.22-

HANCO CORP

Sum

154,665.22-

00095 LANDRY LEWIS GERMANY ARC CN 18-3707.1 00200983 19000031 SRVS FIRE STATION #9

07/31/20

278114

1,855.98-

LANDRY LEWIS GERMANY ARC

Sum

1,855.98-

00095 W GEOTECHNICAL AND TESTI 4337 00200985 19000032 SERVS FIRE STATION #9

07/31/20

278202

1,125.00-

W GEOTECHNICAL AND TESTI

Sum

1,125.00-

Sum

157,646.20-

CITY OF HATTIESBURG

DOCKET OF CLAIMS

Date - 07/29/20

PERIOD ENDING JULY 31, 2020

Vendor	Invoice Number	Purchase Order	Claims Number	Item Description	Check Date	Check No.	Check Amount
INFRA IMPROVE-INTRNT SALES TAX							
00097 SHOWS DEARMAN & WAITS IN	21540	00201000	19000002	SRVS WEATHERSBY RD OVERLAY	07/31/20	278171	16,076.29-
SHOWS DEARMAN & WAITS IN							16,076.29-
Sum							16,076.29-
Sum							16,076.29-
Grand Total Level							3,523,634.99-
Sum							



Memorandum

To: Mayor Toby Barker and Members of City Council
From: Chris McGee, Director of Parks and Recreation
cc:
Date: Tuesday, August 4, 2020
Re: Approve the sale of grave spaces, per attached Memo's, Receipts, and Deeds.
File Number: 2020-496
Minute Book #

Summary

Approve the sale of grave spaces, per attached Memo's, Receipts, and Deeds.

Recommendation Statement

I am recommending approval of Requisition NO. 2020-496, Approve the sale of grave spaces.

Please place this on the August 4, 2020 City Council meeting for consideration.

To: CITY COUNCIL

From: Deborah Bourne, Assistant Division Manager of Cemeteries

Date: July 17, 2020

The following represents the grave spaces sold on July 17, 2020.

Timmy Bradley

(1) Space \$ 175.00 (Debit Card)

North half (N ½) of the Southeast Quarter (SE ¼)

Lot 90, Section 23, Highland Cemetery

Alphonia Bradley

(1) Space \$ 175.00 (Debit Card)

South Half (S ½) of the Northeast Quarter (NE ¼)

Lot 90, Section 23, Highland Cemetery

Randy & Michele Davis

(2) Spaces \$ 350.00 (Debit Card)

Northwest Quarter (NW ¼)

Lot 127, Section 38, Highland Cemetery

Alfreda Carter

(1) Space \$ 150.00 (Debit Card)

South Half (S ½) of the Southwest Quarter (SW ¼)

Lot 51, Section 2, South Hill Cemetery

Clifford Robinson

(1) Space \$ 175.00

North Half (N ½) of the Southwest Quarter (SW ¼)

Lot 72, Section 35, Highland Cemetery

Louise Robinson

(1) Space \$ 175.00

South Half (S ½) of the Northwest Quarter (NW ¼)

Lot 72, Section 35, Highland Cemetery

Clementine Haynes

(1) Space \$ 175.00

North Half (N ½) of the Northeast Quarter (NE ¼)

Lot 80, Section 38, Highland Cemetery

Sandris Eugene Jackson

(1) Space \$ 175.00

North Half (N ½) of the Northeast Quarter (NE ¼)

Lot 65, Section 34, Highland Cemetery

Carolyn McCaleb

(1) Space \$ 175.00

South Half (S ½) of the Southeast Quarter (SE ¼)

Lot 70, Section 34, Highland Cemetery

Yelena Zemtsova

(1) Space \$ 175.00

South half (S ½) of the Southwest Quarter (SW ¼)

Lot 95, Section 39, Highland Cemetery

Hope & Randy Thomley

(2) Spaces \$ 350.00

Northeast Quarter (NE ¼)

Lot 96, Section 38, Highland Cemetery

Geneva Ling

(1) Space \$ 150.00

West Half (W ½) of the Southwest Quarter (SW ¼)

Lot 101, Section 1, South Hill Cemetery

To: CITY COUNCIL

From: Deborah Bourne, Assistant Division Manager of Cemeteries

Date: July 23, 2020

The following represents the grave spaces sold on July 23, 2020.

Doris Price

(2) Spaces \$ 350.00

Southwest Quarter (SW ¼)

Lot 117, Section 38, Highland Cemetery

Tommie Felts

(2) Spaces \$ 350.00

Southeast Quarter (SE ¼)

Lot 72, Section 38, Highland Cemetery

David Singleton

(2) Spaces \$ 350.00

Southwest Quarter (SW ¼)

Lot 131, Section 39, Highland Cemetery

Roderick Dill

(1) Space \$ 175.00

North Half (N ½) of the Northeast Quarter (NE ¼)

Lot 64, Section 36, Highland Cemetery

William Tatum

(1) Space \$ 150.00

East Half (E ½) of the Northeast Quarter (NE ¼)

Lot 63, Section 1, South Hill Cemetery

Prentiss L. Lindsey

(1) Space \$ 150.00

North Half (N ½) of the Southwest Quarter (SW ¼)

Lot 51, Section 2, South Hill Cemetery

John Hinton

(1) Space \$ 175.00

South Half (S ½) of the Southwest Quarter (SW ¼)

Lot 72, Section 38, Highland Cemetery

Dennis & Cynthia Lee

(2) Spaces \$ 350.00

Northwest Quarter (NW ¼)

Lot 72, Section 38, Highland Cemetery

Bobby & Gloria Pope

(2) Spaces \$ 350.00

Northeast Quarter (NE ¼)

Lot 72, Section 38, Highland Cemetery

**CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES**

Hattiesburg, Miss., _____ 20__

SOLD TO:

Mr. Mrs. Miss Timmy Bradley

ADDRESS 124 Beverly Hills Dr. Hattiesburg, Miss.

desires to purchase the grave space described below, subject to Cemetery regulations.

N $\frac{1}{2}$ SE $\frac{1}{4}$ Lot No. 90 Section No. _____ in _____ Cemetery

Number of grave spaces 1 Price per grave space \$ _____

Price Received \$ 175.00

CITY OF HATTIESBURG, MISSISSIPPI

By _____
Supt. of City Cemeteries

Don't send.

**CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES**

Hattiesburg, Miss., July 14, 2020

SOLD TO:

Mr. Mrs. Miss Alphonia Bradley

ADDRESS 1240 Beverly Hills Dr. Hattiesburg, Miss.

desires to purchase the grave space described below, subject to Cemetery regulations.

S $\frac{1}{2}$ NE $\frac{1}{4}$ Lot No. 90 Section No. 22 in Hattiesburg Cemetery

Number of grave spaces 1 Price per grave space \$ 175.00

Price Received \$ 175.00

CITY OF HATTIESBURG, MISSISSIPPI

By _____
Supt. of City Cemeteries

cc

**CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES**

Hattiesburg, Miss., July 14, 2020

SOLD TO:

Mr. Mrs. Miss Alfreda Carter

ADDRESS 6375 Malone Rd. Hattiesburg, Miss.

desires to purchase the grave space described below, subject to Cemetery regulations.

S $\frac{1}{2}$ SW $\frac{1}{4}$ Lot No. 51 Section No. 2 in Hattiesburg Cemetery

Number of grave spaces 1 Price per grave space \$ _____

Price Received \$ 150.00

CITY OF HATTIESBURG, MISSISSIPPI

By _____
Supt. of City Cemeteries

cc

**CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES**

Hattiesburg, Miss., _____ 20 ____

SOLD TO:

Mr. Mrs. Miss Randy + Michele

ADDRESS 109 Beccage Court

desires to purchase the grave space described below, subject to Cemetery regulations.

1/2 NW 1/4 Lot No. 127 Section No. _____ in _____ Cemetery

Number of grave spaces 2 Price per grave space \$ _____

Price Received \$ 352.00

CITY OF HATTIESBURG, MISSISSIPPI

By _____
Supt. of City Cemeteries

Debit Card

**CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES**

Hattiesburg, Miss., _____ 20 ____

SOLD TO:

Mr. Mrs. Miss Clifford Robinson

ADDRESS 1207 West Pine St

desires to purchase the grave space described below, subject to Cemetery regulations.

N 1/2 SW 1/4 Lot No. 72 Section No. _____ in _____ Cemetery

Number of grave spaces 1 Price per grave space \$ _____

Price Received \$ 175.00

CITY OF HATTIESBURG, MISSISSIPPI

By _____
Supt. of City Cemeteries

**CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES**

Hattiesburg, Miss., _____ 20 ____

SOLD TO:

Mr. Mrs. Miss Louise Robinson

ADDRESS 1207 West Pine St

desires to purchase the grave space described below, subject to Cemetery regulations.

S 1/2 NW 1/4 Lot No. 72 Section No. _____ in _____ Cemetery

Number of grave spaces 1 Price per grave space \$ _____

Price Received \$ 175.00

CITY OF HATTIESBURG, MISSISSIPPI

By _____
Supt. of City Cemeteries

ck# 5200

**CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES**

Hattiesburg, Miss., _____ 20 ____

SOLD TO:

Mr. Mrs. Miss Clementine Hays

ADDRESS 323 N. 2nd St.

desires to purchase the grave space described below, subject to Cemetery regulations.

N $\frac{1}{2}$ NE $\frac{1}{4}$ Lot No. 86 Section No. _____ in _____ Cemetery

Number of grave spaces _____ Price per grave space \$ _____

Price Received \$ 175.00

CITY OF HATTIESBURG, MISSISSIPPI

By _____
Supt. of City Cemeteries

CASH

**CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES**

Hattiesburg, Miss., _____ 20 ____

SOLD TO:

Mr. Mrs. Miss Sandra Payne

ADDRESS 934 W. 6th St.

desires to purchase the grave space described below, subject to Cemetery regulations.

N $\frac{1}{2}$ NE $\frac{1}{4}$ Lot No. 65 Section No. _____ in _____ Cemetery

Number of grave spaces 1 Price per grave space \$ _____

Price Received \$ 175.00

CITY OF HATTIESBURG, MISSISSIPPI

By _____
Supt. of City Cemeteries

CASH

**CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES**

Hattiesburg, Miss., _____ 20 ____

SOLD TO:

Mr. Mrs. Miss Carolyn Miller

ADDRESS 1792 James St.

desires to purchase the grave space described below, subject to Cemetery regulations.

S $\frac{1}{2}$ SE $\frac{1}{4}$ Lot No. 76 Section No. _____ in _____ Cemetery

Number of grave spaces 1 Price per grave space \$ _____

Price Received \$ 175.00

CITY OF HATTIESBURG, MISSISSIPPI

By _____
Supt. of City Cemeteries

CASH

**CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES**

Hattiesburg, Miss., _____ 20 ____

SOLD TO:

Mr. Mrs. Miss Yelena Zamban

ADDRESS 802 W. 7th St

desires to purchase the grave space described below, subject to Cemetery regulations.

S 1/2 SW 1/4 Lot No. 95 Section No. _____ in _____ Cemetery

Number of grave spaces 1 Price per grave space \$ _____

Price Received \$ 175.00

CITY OF HATTIESBURG, MISSISSIPPI

By _____

Supt. of City Cemeteries

**CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES**

Hattiesburg, Miss., _____ 20 ____

SOLD TO:

Mr. Mrs. Miss Hope R. R. Thomas

ADDRESS 53 County Road 9

desires to purchase the grave space described below, subject to Cemetery regulations.

NE 1/4 Lot No. 96 Section No. _____ in _____ Cemetery

Number of grave spaces 2 Price per grave space \$ _____

Price Received \$ 350.00

CITY OF HATTIESBURG, MISSISSIPPI

By _____

Supt. of City Cemeteries

**CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES**

Hattiesburg, Miss., _____ 20 ____

SOLD TO:

Mr. Mrs. Miss Geneva Ling

ADDRESS 3939 Starmount Ave

desires to purchase the grave space described below, subject to Cemetery regulations.

W 1/2 SW 1/4 Lot No. 101 Section No. _____ in _____ Cemetery

Number of grave spaces 1 Price per grave space \$ _____

Price Received \$ 150.00

CITY OF HATTIESBURG, MISSISSIPPI

By _____

Supt. of City Cemeteries

CK# 4308

**CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES**

Hattiesburg, Miss., 20

SOLD TO:

Mr. Mrs. Miss Doris Price

ADDRESS 43 St. Andrew

desires to purchase the grave space described below, subject to Cemetery regulations.

 1/2 1/4 Lot No. 119 Section No. in Cemetery

Number of grave spaces 2 Price per grave space \$

Price Received \$ 350.00 CITY OF HATTIESBURG, MISSISSIPPI

By
Supt. of City Cemeteries
(601-582-7290)

**CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES**

Hattiesburg, Miss., 07/21/ 20 24

SOLD TO:

Mr. Mrs. Miss Tommie Feltz

ADDRESS 302 Vernon Dahmer Dr. Hattiesburg, MS 39401

desires to purchase the grave space described below, subject to Cemetery regulations.

 1/2 SE 1/4 Lot No. 72 Section No. 38 in Hickory Cemetery

Number of grave spaces 2 Price per grave space \$ 175.00

Price Received \$ 350.00 CITY OF HATTIESBURG, MISSISSIPPI

By
Supt. of City Cemeteries
ck# 1225
ck# 1248

**CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES**

Hattiesburg, Miss., 07/21/ 20 24

SOLD TO:

Mr. Mrs. Miss David Singleton

ADDRESS 14 Conebrake Blvd. Hattiesburg, MS 39402

desires to purchase the grave space described below, subject to Cemetery regulations.

 1/2 SW 1/4 Lot No. 131 Section No. 39 in Hickory Cemetery

Number of grave spaces 2 Price per grave space \$ 175.00

Price Received \$ 350.00 CITY OF HATTIESBURG, MISSISSIPPI

By
Supt. of City Cemeteries
ck# 55349 (nm)

V
**CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES**

Hattiesburg, Miss., 07/20/ 20 20

SOLD TO:

Mr. Mrs. Miss

Roderick Dill

ADDRESS

412 S. 13th Ave Hattiesburg, MS 39401

desires to purchase the grave space described below, subject to Cemetery regulations.

N $\frac{1}{2}$ NE $\frac{1}{4}$ Lot No. 64 Section No. 36 in Highland Cemetery

Number of grave spaces

1 Price per grave space \$ 175.00

Price Received \$

175.00

CASH

CITY OF HATTIESBURG, MISSISSIPPI

By

Deborah Burne
Supt. of City Cemeteries

V
**CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES**

Hattiesburg, Miss., 07/20/ 20 20

SOLD TO:

Mr. Mrs. Miss

William Tatum

ADDRESS

P.O. Box 245, 5752 Hwy 49, Hattiesburg, MS 39401

desires to purchase the grave space described below, subject to Cemetery regulations.

E $\frac{1}{2}$ NE $\frac{1}{4}$ Lot No. 63 Section No. 1 in South Hill Cemetery

Number of grave spaces

1 Price per grave space \$ 150.00

Price Received \$

150.00

ck# 944 A+A

CITY OF HATTIESBURG, MISSISSIPPI

By

Deborah Burne
Supt. of City Cemeteries

J
**CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES**

Hattiesburg, Miss., 07/19/ 20 20

SOLD TO:

Mr. Mrs. Miss

Prentiss L. Linney

ADDRESS

1258 Richburg Rd Hattiesburg, MS 39401

desires to purchase the grave space described below, subject to Cemetery regulations.

N $\frac{1}{2}$ SW $\frac{1}{4}$ Lot No. 51 Section No. 2 in South Hill Cemetery

Number of grave spaces

1 Price per grave space \$ 150.00

Price Received \$

150.00

ck# 4435
(Forest)

CITY OF HATTIESBURG, MISSISSIPPI

By

Deborah Burne
Supt. of City Cemeteries

**CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES**

Hattiesburg, Miss., July 21 2020

SOLD TO:

Mr. Mrs. Miss John Hinton

ADDRESS 113 Meadow Park Lane Hattiesburg, Miss. 39401

desires to purchase the grave space described below, subject to Cemetery regulations.

S 1/2 SW 1/4 Lot No. 72 Section No. 38 in Highland Cemetery

Number of grave spaces 1 Price per grave space \$ 175.00

Price Received \$ 175.00

CITY OF HATTIESBURG, MISSISSIPPI

By [Signature]
Supt. of City Cemeteries

**CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES**

Hattiesburg, Miss., July 21 2020

SOLD TO:

Mr. Mrs. Miss Dennis and Cynthia Lane

ADDRESS 13228 Chasae Lane Hattiesburg, Miss. 39401

desires to purchase the grave space described below, subject to Cemetery regulations.

1/2 NW 1/4 Lot No. 72 Section No. 38 in Highland Cemetery

Number of grave spaces 2 Price per grave space \$ 175.00

Price Received \$ 350.00

CITY OF HATTIESBURG, MISSISSIPPI

By [Signature]
Supt. of City Cemeteries

**CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES**

Hattiesburg, Miss., July 21 2020

SOLD TO:

Mr. Mrs. Miss Bobby and Gloria Pope

ADDRESS 309 Vernon Dahmer Drive Hattiesburg, Miss. 39401

desires to purchase the grave space described below, subject to Cemetery regulations.

1/2 NE 1/4 Lot No. 72 Section No. 38 in Highland Cemetery

Number of grave spaces 2 Price per grave space \$ 175.00

Price Received \$ 350.00

CITY OF HATTIESBURG, MISSISSIPPI

By [Signature]
Supt. of City Cemeteries

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

**DEED TO CEMETERY LOT
HIGHLAND CEMETERY**

For and in consideration of the sum of ONE HUNDRED SEVENTY-FIVE AND NO/100 Dollars (\$175.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto Timmy Bradley, subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

North Half (N½) of the Southeast Quarter (SE¼)

Lot 90 Section 23

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as Highland Cemetery, and containing

One (1) Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 4th day of August, 2020.

ATTEST:

CITY OF HATTIESBURG, MISSISSIPPI

CITY CLERK

MAYOR

(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally, appeared before me, the undersigned authority in and for said County and State, Toby Barker and Kermas Eaton, Mayor and City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 4th day of August 2020.

My Commission Expires:

NOTARY PUBLIC

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

**DEED TO CEMETERY LOT
HIGHLAND CEMETERY**

For and in consideration of the sum of ONE HUNDRED SEVENTY-FIVE AND NO/100 Dollars (\$175.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto Alphonia Bradley, subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

South Half (S½) of the Northeast Quarter (NE¼)

Lot 90 Section 23

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as Highland Cemetery, and containing

One (1) Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 4th day of August, 2020.

ATTEST:

CITY OF HATTIESBURG, MISSISSIPPI

CITY CLERK

MAYOR

(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally, appeared before me, the undersigned authority in and for said County and State, Toby Barker and Kermas Eaton, Mayor and City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 4th day of August 2020.

My Commission Expires:

NOTARY PUBLIC

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

**DEED TO CEMETERY LOT
SOUTH HILL CEMETERY**

For and in consideration of the sum of ONE HUNDRED FIFTY AND NO/100 Dollars (\$150.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto Alfreda Carter, subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

South Half (S½) of the Southwest Quarter (SW¼)

Lot Number: 51 Section Number: 2

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as South Hill Cemetery, and containing

One (1) Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 4th day of August, 2020.

ATTEST:

CITY OF HATTIESBURG, MISSISSIPPI

CITY CLERK
(S E A L)

MAYOR

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally, appeared before me, the undersigned authority in and for said County and State, Toby Barker and Kermas Eaton, Mayor and Deputy City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 4th day of August, 2020.

My Commission Expires:

NOTARY PUBLIC

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

**DEED TO CEMETERY LOT
HIGHLAND CEMETERY**

For and in consideration of the sum of THREE HUNDRED FIFTY AND NO/100 Dollars (\$350.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto, Randy & Michele Davis, subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

Northwest Quarter (NW¼)

Lot Number 127 Section Number 38

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as Highland Cemetery, and containing

Two Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 4th day August, 2020.

ATTEST:

CITY OF HATTIESBURG, MISSISSIPPI

CITY CLERK

MAYOR

(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally appeared before me, the undersigned authority in and for said County and State, Toby Barker and Kermas Eaton, Mayor and City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 4th day of August, 2020

My Commission Expires:

NOTARY PUBLIC

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

**DEED TO CEMETERY LOT
HIGHLAND CEMETERY**

For and in consideration of the sum of ONE HUNDRED SEVENTY-FIVE AND NO/100 Dollars (\$175.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto Clifford Robinson, subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

North Half (N½) of the Southwest Quarter (SW¼)

Lot 72 Section 35

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as Highland Cemetery, and containing

One (1) Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 4th day of August, 2020.

ATTEST:

CITY OF HATTIESBURG, MISSISSIPPI

CITY CLERK

MAYOR

(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally, appeared before me, the undersigned authority in and for said County and State, Toby Barker and Kermas Eaton, Mayor and City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 4th day of August 2020.

My Commission Expires:

NOTARY PUBLIC

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

**DEED TO CEMETERY LOT
HIGHLAND CEMETERY**

For and in consideration of the sum of ONE HUNDRED SEVENTY-FIVE AND NO/100 Dollars (\$175.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto Louise Robinson, subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

South Half (S½) of the Northwest Quarter (NW¼)

Lot 72 Section 35

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as Highland Cemetery, and containing

One (1) Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 4th day of August, 2020.

ATTEST:

CITY OF HATTIESBURG, MISSISSIPPI

CITY CLERK

MAYOR

(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally, appeared before me, the undersigned authority in and for said County and State, Toby Barker and Kermas Eaton, Mayor and City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 4th day of August 2020.

My Commission Expires:

NOTARY PUBLIC

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

**DEED TO CEMETERY LOT
HIGHLAND CEMETERY**

For and in consideration of the sum of ONE HUNDRED SEVENTY-FIVE AND NO/100 Dollars (\$175.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto Clementine Haynes, subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

North Half (N½) of the Northeast Quarter (NE¼)

Lot 80 Section 38

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as Highland Cemetery, and containing

One (1) Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 4th day of August, 2020.

ATTEST:

CITY OF HATTIESBURG, MISSISSIPPI

CITY CLERK

MAYOR

(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally, appeared before me, the undersigned authority in and for said County and State, Toby Barker and Kermas Eaton, Mayor and City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 4th day of August 2020.

My Commission Expires:

NOTARY PUBLIC

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

**DEED TO CEMETERY LOT
HIGHLAND CEMETERY**

For and in consideration of the sum of ONE HUNDRED SEVENTY-FIVE AND NO/100 Dollars (\$175.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto Sandris Eugene Jackson, subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

North Half (N½) of the Northeast Quarter (NE¼)

Lot 65 Section 34

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as Highland Cemetery, and containing

One (1) Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 4th day of August, 2020.

ATTEST:

CITY OF HATTIESBURG, MISSISSIPPI

CITY CLERK

MAYOR

(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally, appeared before me, the undersigned authority in and for said County and State, Toby Barker and Kermas Eaton, Mayor and City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 4th day of August 2020.

My Commission Expires:

NOTARY PUBLIC

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

**DEED TO CEMETERY LOT
HIGHLAND CEMETERY**

For and in consideration of the sum of ONE HUNDRED SEVENTY-FIVE AND NO/100 Dollars (\$175.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto Carolyn McCaleb, subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

South Half (S½) of the Southeast Quarter (SE¼)

Lot 70 Section 34

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as Highland Cemetery, and containing

One (1) Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 4th day of August, 2020.

ATTEST:

CITY OF HATTIESBURG, MISSISSIPPI

CITY CLERK

MAYOR

(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally, appeared before me, the undersigned authority in and for said County and State, Toby Barker and Kermas Eaton, Mayor and City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 4th day of August 2020.

My Commission Expires:

NOTARY PUBLIC

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

**DEED TO CEMETERY LOT
HIGHLAND CEMETERY**

For and in consideration of the sum of ONE HUNDRED SEVENTY-FIVE AND NO/100 Dollars (\$175.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto Yelena Zemtsova, subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

South Half (S½) of the Southwest Quarter (SW¼)

Lot 95 Section 39

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as Highland Cemetery, and containing

One (1) Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 4th day of August, 2020.

ATTEST:

CITY OF HATTIESBURG, MISSISSIPPI

CITY CLERK

MAYOR

(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally, appeared before me, the undersigned authority in and for said County and State, Toby Barker and Kermas Eaton, Mayor and City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 4th day of August 2020.

My Commission Expires:

NOTARY PUBLIC

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

**DEED TO CEMETERY LOT
HIGHLAND CEMETERY**

For and in consideration of the sum of THREE HUNDRED FIFTY AND NO/100 Dollars (\$350.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto, Hope & Randy Thomley, subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

Northeast Quarter (NE¼)

Lot Number 96 Section Number 38

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as Highland Cemetery, and containing

Two Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 4th day August, 2020.

ATTEST:

CITY OF HATTIESBURG, MISSISSIPPI

CITY CLERK

MAYOR

(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally appeared before me, the undersigned authority in and for said County and State, Toby Barker and Kermas Eaton, Mayor and City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 4th day of August, 2020

My Commission Expires:

NOTARY PUBLIC

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

**DEED TO CEMETERY LOT
SOUTH HILL CEMETERY**

For and in consideration of the sum of ONE HUNDRED FIFTY AND NO/100 Dollars (\$150.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto Geneva Ling, subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

West Half (W½) of the Southwest Quarter (SW¼)

Lot Number: 101 Section Number: 1

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as South Hill Cemetery, and containing

One (1) Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 4th day of August, 2020.

ATTEST:

CITY OF HATTIESBURG, MISSISSIPPI

CITY CLERK
(S E A L)

MAYOR

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally, appeared before me, the undersigned authority in and for said County and State, Toby Barker and Kermas Eaton, Mayor and Deputy City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 4th day of August, 2020.

My Commission Expires:

NOTARY PUBLIC

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

**DEED TO CEMETERY LOT
HIGHLAND CEMETERY**

For and in consideration of the sum of THREE HUNDRED FIFTY AND NO/100 Dollars (\$350.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto, Doris Price, subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

Southwest Quarter (SW¹/₄)

Lot Number 117 Section Number 38

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as Highland Cemetery, and containing

Two Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 4th day August, 2020.

ATTEST:

CITY OF HATTIESBURG, MISSISSIPPI

CITY CLERK

MAYOR

(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally appeared before me, the undersigned authority in and for said County and State, Toby Barker and Kermas Eaton, Mayor and City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 4th day of August, 2020

My Commission Expires:

NOTARY PUBLIC

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

**DEED TO CEMETERY LOT
HIGHLAND CEMETERY**

For and in consideration of the sum of THREE HUNDRED FIFTY AND NO/100 Dollars (\$350.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto, Tommie Felts, subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

Southeast Quarter (SE¼)

Lot Number 72 Section Number 38

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as Highland Cemetery, and containing

Two Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 4th day August, 2020.

ATTEST:

CITY OF HATTIESBURG, MISSISSIPPI

CITY CLERK

MAYOR

(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally appeared before me, the undersigned authority in and for said County and State, Toby Barker and Kermas Eaton, Mayor and City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 4th day of August, 2020

My Commission Expires:

NOTARY PUBLIC

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

**DEED TO CEMETERY LOT
HIGHLAND CEMETERY**

For and in consideration of the sum of THREE HUNDRED FIFTY AND NO/100 Dollars (\$350.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto, David Singleton, subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

Southwest Quarter (SW¼)

Lot Number 131 Section Number 39

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as Highland Cemetery, and containing

Two Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 4th day August, 2020.

ATTEST:

CITY OF HATTIESBURG, MISSISSIPPI

CITY CLERK

MAYOR

(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally appeared before me, the undersigned authority in and for said County and State, Toby Barker and Kermas Eaton, Mayor and City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 4th day of August, 2020

My Commission Expires:

NOTARY PUBLIC

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

**DEED TO CEMETERY LOT
HIGHLAND CEMETERY**

For and in consideration of the sum of ONE HUNDRED SEVENTY-FIVE AND NO/100 Dollars (\$175.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto Roderick Dill, subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

North Half (N½) of the Northeast Quarter (NE¼)

Lot 64 Section 36

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as Highland Cemetery, and containing

One (1) Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 4th day of August, 2020.

ATTEST:

CITY OF HATTIESBURG, MISSISSIPPI

CITY CLERK

MAYOR

(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally, appeared before me, the undersigned authority in and for said County and State, Toby Barker and Kermas Eaton, Mayor and City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 4th day of August 2020.

My Commission Expires:

NOTARY PUBLIC

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

**DEED TO CEMETERY LOT
SOUTH HILL CEMETERY**

For and in consideration of the sum of ONE HUNDRED FIFTY AND NO/100 Dollars (\$150.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto William Tatum, subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

East Half (E½) of the Northeast Quarter (NE¼)

Lot Number: 63 Section Number: 1

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as South Hill Cemetery, and containing

One (1) Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 4th day of August, 2020.

ATTEST:

CITY OF HATTIESBURG, MISSISSIPPI

CITY CLERK
(S E A L)

MAYOR

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally, appeared before me, the undersigned authority in and for said County and State, Toby Barker and Kermas Eaton, Mayor and Deputy City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 4th day of August, 2020.

My Commission Expires:

NOTARY PUBLIC

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

**DEED TO CEMETERY LOT
SOUTH HILL CEMETERY**

For and in consideration of the sum of ONE HUNDRED FIFTY AND NO/100 Dollars (\$150.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto Prentiss L. Lindsey, subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

North Half (N½) of the Southwest Quarter (SW¼)

Lot Number: 51 Section Number: 2

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as South Hill Cemetery, and containing

One (1) Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 4th day of August, 2020.

ATTEST:

CITY OF HATTIESBURG, MISSISSIPPI

CITY CLERK
(S E A L)

MAYOR

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally, appeared before me, the undersigned authority in and for said County and State, Toby Barker and Kermas Eaton, Mayor and Deputy City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 4th day of August, 2020.

My Commission Expires:

NOTARY PUBLIC

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

**DEED TO CEMETERY LOT
HIGHLAND CEMETERY**

For and in consideration of the sum of ONE HUNDRED SEVENTY-FIVE AND NO/100 Dollars (\$175.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto John Hinton, subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

South Half (S½) of the Southwest Quarter (SW¼)

Lot 72 Section 38

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as Highland Cemetery, and containing

One (1) Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 4th day of August, 2020.

ATTEST:

CITY OF HATTIESBURG, MISSISSIPPI

CITY CLERK

MAYOR

(SEAL)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally, appeared before me, the undersigned authority in and for said County and State, Toby Barker and Kermas Eaton, Mayor and City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 4th day of August 2020.

My Commission Expires:

NOTARY PUBLIC

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

**DEED TO CEMETERY LOT
HIGHLAND CEMETERY**

For and in consideration of the sum of THREE HUNDRED FIFTY AND NO/100 Dollars (\$350.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto, Dennis & Cynthia Lee, subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

Northwest Quarter (NW¼)

Lot Number 72 Section Number 38

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as Highland Cemetery, and containing

Two Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 4th day August, 2020.

ATTEST:

CITY OF HATTIESBURG, MISSISSIPPI

CITY CLERK

MAYOR

(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally appeared before me, the undersigned authority in and for said County and State, Toby Barker and Kermas Eaton, Mayor and City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 4th day of August, 2020

My Commission Expires:

NOTARY PUBLIC

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

**DEED TO CEMETERY LOT
HIGHLAND CEMETERY**

For and in consideration of the sum of THREE HUNDRED FIFTY AND NO/100 Dollars (\$350.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto, Bobby & Gloria Pope, subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

Northeast Quarter (NE¹/₄)

Lot Number 72 Section Number 38

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as Highland Cemetery, and containing

Two Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 4th day August, 2020.

ATTEST:

CITY OF HATTIESBURG, MISSISSIPPI

CITY CLERK

MAYOR

(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally appeared before me, the undersigned authority in and for said County and State, Toby Barker and Kermas Eaton, Mayor and City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 4th day of August, 2020

My Commission Expires:

NOTARY PUBLIC



Memorandum

To: Mayor Toby Barker and Members of City Council

From: Ann Jones

cc:

Date: Tuesday, August 4, 2020

Re: Authorize the publication of Request for Proposals for professional services related to disaster and pandemic response cost recovery and related grant and project management services associated with impacts from the ongoing COVID-19 Pandemic.
File Number: 2020-545
Minute Book #

Summary

Authorize the publication of Request for Proposals for professional services related to disaster and pandemic response cost recovery and related grant and project management services associated with impacts from the ongoing COVID-19 Pandemic.

Recommendation Statement

I recommend that we publish for advertisement the request for proposals for professional services related to recovery from the ongoing COVID-19 Pandemic.

Please place this on the August 4, 2020 City Council meeting for consideration.