

SECTION 905 -- PROPOSAL (CONTINUED)

I (We) further propose to execute the attached contract agreement (Section 902) as soon as the work is awarded to me (us), and to begin and complete the work within the time limit(s) provided for in the Specifications and Advertisement. I (We) also propose to execute the attached contract bond (Section 903) in an amount not less than one hundred (100) percent of the total of 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, cashier's check or bid bond for **five percent (5%) of total bid** and hereby agree that in case of my (our) failure to execute the contract and furnish bond within Ten (10) days after notice of award, the amount of this check (bid bond) will be forfeited to the 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.

Bidder acknowledges receipt of and has added to and made a part of the proposal and contract documents the following addendum (addenda):

ADDENDUM NO.	<u>1</u>	DATED	<u>7/7/2014</u>	ADDENDUM NO.	_____	DATED	_____
ADDENDUM NO.	<u>2</u>	DATED	<u>08/20/2014</u>	ADDENDUM NO.	_____	DATED	_____

Number	Description
1	Revised BidItems; Revised or Added Plan Sheet Nos. 2, 4, 12, 18, 19, 22, 25, 26, 35, 130, 131, 133, 134, 137, 138, 140, & 141; Amendment EBS Download Required.
2	Revised Table of Contents; Delete NTB No. 1322; Add NTB Nos. 3704, 5173, 5174, & 5175; Revised NTB Nos. 5105 & 5109; Revised BidItems; Revised or Added Plan Sheet Nos. 2, 3, 4, 8, 18, 19, 22, 24, 26, 34, 35, 95, 96, 101, 104, 142, 143, 8001, 8035, 8040, & 8072; Amendment EBS Download Required.

TOTAL ADDENDA: 2
(Must agree with total addenda issued prior to opening of bids)

Respectfully Submitted,

DATE _____

Contractor

BY _____
Signature

TITLE _____

ADDRESS _____

CITY, STATE, ZIP _____

PHONE _____

FAX _____

E-MAIL _____

(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

The following is my (our) itemized proposal.

HSIP-0020-01(191) / 105536301 SP-0020-01(063) / 105536302 Rankin County(ies)

Revised 09/21/2005

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

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SP-0020-01(063) / 105536302 – Rankin County**

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(REVISIONS TO THE ABOVE WILL BE INDICATED ON THE SECOND SHEET
OF SECTION 905 AS ADDENDA)

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 3704

CODE: (SP)

DATE: 11/30/2011

SUBJECT: Use of Precast Drainage Units

Bidders attention is brought to the content of Subsection 601.02.3 regarding precast units. MDOT Drawing Sheet Nos. PCU-1 and PCU-2 address MDOT approved precast drainage units. The Contractor must make a request to the Project Engineer for approval to use precast units other than the ones shown on Drawing Sheet No. PCU-1 or PCU-2.

Bidders are advised that precast drainage unit tops are only allowed on units shown on Drawing Sheet No. PCU-1. Cast-In-Place drainage unit tops are required on units shown on Drawing Sheet No. PCU-2.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 5105

CODE: (SP)

DATE: 08/21/2014

SUBJECT: Contract Time

PROJECT: HSIP-0020-01(191) / 105536301 &
SP-0020-01(063) / 105536302 – Rankin County

The calendar date for completion of work to be performed by the Contractor for this project shall be **June 24, 2016** which date or extended date as provided in Subsection 907-108.06 shall be the end of contract time. It is anticipated that the Notice of Award will be issued no later than **September 9, 2014** and the effective date of the Notice to Proceed / Beginning of Contract Time will be **November 10, 2014**.

Should the Contractor request a Notice to Proceed earlier than **November 10, 2014** and it is agreeable with the Department for an early Notice to Proceed, the requested date will become the new Notice to Proceed / Beginning of Contract Time date.

The available productive days for this project are **258**.

Night Work Will Be Allowed On This Project.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 5109

CODE: (SP)

DATE: 8/21/2014

SUBJECT: Lane Closure Restrictions

PROJECT: HSIP-0020-01(191) / 105536301 &
SP-0020-01(063) / 105536302 – Rankin County

Bidders are hereby advised that lane closure restrictions on the above captioned project shall be as follows:

Monday through Friday:

Lane closures will NOT be allowed between the hours of 6:30 AM to 6:30 PM on I-20.

Lane closures will NOT be allowed between the hours of 7:00 AM to 9:00 AM or 4:00 PM to 6:00 PM on Highway 80.

Lane closures will NOT be allowed between the hours of 6:30 AM to 8:30 AM or 2:30 PM to 4:00 PM on Marquette Rd.

Saturday

Lane closures will be allowed anytime.

At least one (1) lane of traffic in both directions must remain open at all times on I-20 & US 80. Marquette Road will not be shut down, but lane closures will be allowed as per the Standard Drawings or as Directed by the Engineer.

No exceptions to the above restrictions will be allowed unless specifically approved by the Project Engineer.

Also, no lane closures will be permitted on the following holidays or the day preceding them: New Year's Day, Independence Day, Labor Day, Thanksgiving Day or Christmas Day. In the event that one the above mentioned holidays falls during the weekend or on a Monday, no lane closures will be allowed during that weekend or the Friday immediately preceding that holiday.

If the lane closure restriction listed above is violated, no excuses will be accepted by the Department and the Contractor will be charged a fee of \$2,500.00 for each full or partial five minute period until the roadway is back in compliance with the lane closure restriction requirement.

For the purposes of this contract, official time shall be the announced time available at the Jackson area telephone number (601) 355-9311.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 – NOTICE TO BIDDERS NO. 5173

CODE: (SP)

DATE: 8/20/2014

SUBJECT: AT&T Underground Utility

**PROJECT: HSIP-0020-01(191) / 105536301 &
SP-0020-01(063) / 105536302 – Rankin County**

Bidders are hereby advised that an existing AT&T utility is present on the East Side of US 80 underneath Interstate 20. The location of the cable as shown on the cross sectional drawings are based on pothole locations at approximately 300 feet apart. Assumptions were made as to the specific location of the cable between these pothole locations. It is the bidder's responsibility to coordinate with AT&T in order to locate this cable as needed, such that the design of the soil/nail wall does not conflict with the cable.

AT&T Contacts:

Jeff Walters 601-260-9958

Steve Whitney 601-829-3882

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 5174

CODE: (SP)

DATE: 8/20/2014

SUBJECT: Pay Item Correction

**PROJECT: HSIP-0020-01(191) / 105536301 &
SP-0020-01(063) / 105536302 – Rankin County**

The Bidder's attention is called to the Pay Item 803-O020, Permanent Casing, 54" Diameter. Bidders are hereby advised that the Plan Quantity for the Pay Item is incorrect. The correct quantity is 150 L.F. and has been corrected in the Bidsheets. Please Bid accordingly

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 5175

CODE: (SP)

DATE: 8/20/2014

SUBJECT: Work Restrictions Associated with the Railroad

**PROJECT: HSIP-0020-01(191) / 105536301 &
SP-0020-01(063) / 105536302 – Rankin County**

Bidders are hereby advised that the project requires work adjacent to and over the KCS Railroad. Work will be completed as per the guidelines referenced in NTB 4741 (Kansas City Southern Construction Requirements) and 907-899-2 (Railway-Highway Provisions). When it becomes necessary to work in proximity of the Railroad Right of Way and it becomes impractical to work due to train traffic volumes that conflict with the work, the Project Engineer will continue to charge time in accordance to Special Provision 907-108-30.

Delays in the Contractor's prosecution of the work due to conflicts with the Railroad shall not constitute a modification to time or money in the contract.

Work necessary for Interchange Improvements on I-20 at the West Brandon Interchange, known as Federal Aid Project No. HSIP-0020-01(191) / 105536301 and State Project No. SP-0020-01(063) / 105536302 in Rankin County.

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
					Roadway Items
0010	201-A001		1	Lump Sum	Clearing and Grubbing
0020	202-B005		3,424	Square Yard	Removal of Asphalt Pavement, All Depths
0030	202-B025		308	Square Yard	Removal of Concrete Paved Ditch
0040	202-B030		387	Square Yard	Removal of Concrete Pavement, All Depths
0050	202-B033		245	Square Yard	Removal of Concrete Pavement w/ Variable Depth Overlay
0060	202-B036		2,130	Square Yard	Removal of Concrete Slope Paving
0070	202-B038		3,900	Linear Feet	Removal of Curb, All Types
0080	202-B039		35	Each	Removal of Delineator, All Types
0090	202-B041		1,826	Linear Feet	Removal of Fence, All Types
0100	202-B042		1	Each	Removal of Flared End Section, All Sizes
0110	202-B059		154	Square Feet	Removal of Legend, All Types
0120	202-B061		1	Each	Removal of Low Mast Lighting Foundation
0130	202-B064		224	Linear Feet	Removal of Pipe, 8" And Above
0140	202-B070		38	Each	Removal of Sign Including Post & Footing
0150	202-B072		4,002	Square Yard	Removal of Soil Cement Treated Base, All Depths
0160	202-B076		2,598	Linear Feet	Removal of Traffic Stripe
0170	202-B079		1	Each	Removal of Headwall
0180	202-B102		680	Linear Feet	Removal of Guard Rail
0190	202-B138		150	Square Yard	Removal of Riprap
0200	202-B141		495	Linear Feet	Removal of Edge Drain
0210	202-B215		6	Each	Removal of Curb Inlet
0220	202-B216		1,388	Square Yard	Removal of Island Pavement, All Types
0230	202-B252		375	Linear Feet	Removal of Electrical Conductors
0240	203-A003	(E)	2,258	Cubic Yard	Unclassified Excavation, FM, AH
0250	203-EX029	(E)	61,594	Cubic Yard	Borrow Excavation, AH, FME, Class B15
0260	203-G003	(E)	36,804	Cubic Yard	Excess Excavation, FM, AH
0270	206-A001	(S)	112	Cubic Yard	Structure Excavation
0280	209-A004		1,523	Square Yard	Geotextile Stabilization, Type V, Non-Woven
0290	213-C001		7	Ton	Superphosphate
0300	217-A001		23	Square Yard	Ditch Liner
0310	219-A001		24	Thousand Gallon	Watering [\$20.00]
0320	220-A001		7	Acre	Insect Pest Control [\$30.00]

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
0330	221-A001	(S)	151	Cubic Yard	Portland Cement Concrete Paved Ditch
0340	223-A001		1	Acre	Mowing [\$50.00]
0350	234-A001		1,556	Linear Feet	Temporary Silt Fence
0360	236-A004		5	Each	Silt Basin, Type D
0370	239-A001		1,000	Linear Feet	Temporary Slope Drains
0380	406-A001		9,153	Square Yard	Cold Milling of Bituminous Pavement, All Depths
0390	413-B001		404	Linear Feet	Cleaning and Sealing Joints
0400	423-A001		1	Mile	Rumble Strips, Ground In
0410	501-E001		86	Linear Feet	Expansion Joints, Without Dowels
0420	502-A001	(C)	187	Square Yard	Reinforced Cement Concrete Bridge End Pavement
0430	503-C007		2,040	Linear Feet	Saw Cut, Full Depth
0440	602-A001	(S)	1,008	Pounds	Reinforcing Steel
Changed 07/07/2014					
0450	603-CA002	(S)	176	Linear Feet	18" Reinforced Concrete Pipe, Class III
Changed 08/20/2014					
0455	603-CA003	(S)	88	Linear Feet	24" Reinforced Concrete Pipe, Class III
Changed 08/20/2014					
0460	603-CA004	(S)	8	Linear Feet	30" Reinforced Concrete Pipe, Class III
0470	603-CA005	(S)	160	Linear Feet	36" Reinforced Concrete Pipe, Class III
Changed 08/20/2014					
0475	603-CA017	(S)	56	Linear Feet	36" Reinforced Concrete Pipe, Class IV
Added 08/20/2014					
0480	603-CA107	(S)	248	Linear Feet	24" Reinforced Concrete Pipe, Class V, Jacked or Bored
0490	603-CB001	(S)	5	Each	18" Reinforced Concrete End Section
0500	603-CB002	(S)	5	Each	24" Reinforced Concrete End Section
Changed 07/07/2014					
0510	603-CB003	(S)	1	Each	30" Reinforced Concrete End Section
0515	604-A001		237	Pounds	Castings
Added 08/20/2014					
0520	603-CB004	(S)	3	Each	36" Reinforced Concrete End Section
0530	604-B001		250	Pounds	Gratings
0540	605-AA003	(S)	66	Square Yard	Geotextile for Subsurface Drainage, Type III
0550	605-AA004	(S)	2,425	Square Yard	Geotextile for Subsurface Drainage, Type V
0560	605-W001	(GY)	224	Cubic Yard	Filter Material for Combination Storm Drain and/or Underdrains, Type A, FM
0570	605-W002	(GY)	120	Cubic Yard	Filter Material for Combination Storm Drain and/or Underdrains, Type B, FM

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
0580	606-B001		300	Linear Feet	Guard Rail, Class A, Type 1
0590	606-D012		4	Each	Guard Rail, Bridge End Section, Type I
0600	606-E001		4	Each	Guard Rail, Terminal End Section
0610	607-B001		1,768	Linear Feet	60" Type I Chain Link Fence, Class I
0620	607-G132		2	Each	Gate, 3' x 60" Chain Link
0630	607-P1007		171	Each	Line Post, 7' x 1 1/2" Galvanized Steel
0640	607-P2008		15	Each	Brace Post, 7 1/2' x 2" Galvanized Steel
0650	607-P2017		2	Each	Brace Post, 5' x 2 1/2" Galvanized Steel
0660	607-P3003		4	Each	Gate Post, 8' x 2 1/2" Galvanized Steel
0670	609-B001	(S)	1,075	Linear Feet	Concrete Curb, Header
0680	609-B004	(S)	944	Linear Feet	Concrete Curb, Special Design Header
0690	609-D002	(S)	443	Linear Feet	Combination Concrete Curb and Gutter Type 2
0700	609-D008	(S)	493	Linear Feet	Combination Concrete Curb and Gutter Type 3A
0710	615-A012	(S)	548	Linear Feet	Concrete Type IV Modified, 42" Height, Cast-in-Place Median Barrier
0720	615-A018	(S)	40	Linear Feet	Concrete Bridge End Barrier, 33.5"
0730	615-A020	(S)	269	Linear Feet	Concrete Type III Modified Cast-in-Place Median Barrier, 42" High
0740	615-A022	(S)	190	Linear Feet	Concrete Pier Protection Barrier, 54"
0750	619-A1001		2,818	Linear Feet	Temporary Traffic Stripe, Continuous White
0760	619-A2001		3,835	Linear Feet	Temporary Traffic Stripe, Continuous Yellow
0770	619-A3001		120	Linear Feet	Temporary Traffic Stripe, Skip White
0780	619-A5001		10,932	Linear Feet	Temporary Traffic Stripe, Detail
0790	619-A6001		1,963	Linear Feet	Temporary Traffic Stripe, Legend
0800	619-A6002		1,444	Square Feet	Temporary Traffic Stripe, Legend
0810	619-D1001		97	Square Feet	Standard Roadside Construction Signs, Less than 10 Square Feet
0820	619-D2001		962	Square Feet	Standard Roadside Construction Signs, 10 Square Feet or More
0830	619-E1001		3	Each	Flashing Arrow Panel, Type C
0840	619-F1001		3,645	Linear Feet	Concrete Median Barrier, Precast
0850	619-F2001		109	Linear Feet	Remove and Reset Concrete Median Barrier, Precast
0860	619-G4001		186	Linear Feet	Barricades, Type III, Single Faced
0870	619-G5001		183	Each	Free Standing Plastic Drums
0880	619-G7001		12	Each	Warning Lights, Type "B"
0890	619-J1001		1	Unit	Impact Attenuator, 40 MPH
0900	619-J2005		1	Unit	Impact Attenuator, 40 MPH, Replacement Package
0910	620-A001		1	Lump Sum	Mobilization
0920	621-A001		1	Each	Field Laboratory

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
0930	627-K001		380	Each	Red-Clear Reflective High Performance Raised Markers
0940	627-L001		53	Each	Two-Way Yellow Reflective High Performance Raised Markers
0950	627-M001		41	Each	One-Way Clear Reflective High Performance Raised Markers
0960	627-N001		9	Each	One-Way Yellow Reflective High Performance Raised Markers
0970	629-A001		2	Each	Vehicular Impact Attenuator, 50 MPH
0980	629-B001		2	Each	Median Barrier End Section
0990	630-A001		162	Square Feet	Standard Roadside Signs, Sheet Aluminum, 0.080" Thickness
1000	630-A002		233	Square Feet	Standard Roadside Signs, Sheet Aluminum, 0.125" Thickness
1010	630-B001		210	Square Feet	Interstate Directional Signs, Bolted Extruded Aluminum Panels, Ground Mounted
1020	630-C001		36	Linear Feet	Steel U-Section Posts, 2.0 lb/ft
1030	630-C003		189	Linear Feet	Steel U-Section Posts, 3.0 lb/ft
1040	630-D003		195	Linear Feet	Structural Steel Beams, W6 x 9
1050	630-E001		192	Pounds	Structural Steel Angles & Bars, 3" x 3" x 1/4" Angles
1060	630-E004		337	Pounds	Structural Steel Angles & Bars, 7/16" x 2 1/2" Flat Bar
1070	630-F001		11	Each	Delineators, Guard Rail, White
1080	630-F006		2	Each	Delineators, Post Mounted, Single White
1090	630-F007		6	Each	Delineators, Post Mounted, Single Yellow
1100	630-F008		39	Each	Delineators, Post Mounted, Double White
1110	630-F009		5	Each	Delineators, Post Mounted, Double Yellow
1120	630-G002		10	Each	Type 3 Object Markers, OM-3R or OM-3L, Post Mounted
1130	630-K001		98	Linear Feet	Welded & Seamless Steel Pipe Posts, 3"
1140	630-K002		145	Linear Feet	Welded & Seamless Steel Pipe Posts, 3 1/2"
1150	630-K003		71	Linear Feet	Welded & Seamless Steel Pipe Posts, 4"
1160	635-A001		24	Linear Feet	Vehicle Loop Assemblies
1170	636-A005		800	Linear Feet	Shielded Cable, AWG #14, 2 Conductor
1180	638-A005		2	Each	Loop Detector Amplifier, Card Rack Mounted, 4 Channel
1190	640-A003		2	Each	Traffic Signal Heads, Type 1A
1200	640-A016		16	Each	Traffic Signal Heads, Type 1 LED
1210	640-A017		3	Each	Traffic Signal Heads, Type 2 LED
1220	640-A018		3	Each	Traffic Signal Heads, Type 3 LED
1230	640-A056		4	Each	Traffic Signal Heads, Type 2 FYA LED
1240	646-A001		1	Lump Sum	Removal of Existing Traffic Signal Equipment
1250	647-A001		2	Each	Pullbox, Type 1
1260	647-A002		3	Each	Pullbox, Type 3
1270	647-A003		7	Each	Pullbox, Type 4

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
1280	647-A004		8	Each	Pullbox, Type 5
1290	647-A005		15	Each	Pullbox, Type 2
1300	648-A001		3	Each	Radio Interconnect, Installed in New Controller Cabinet
1310	653-B001		106	Square Feet	Street Name Sign, Encapsulated Lens
1320	666-B022		347	Linear Feet	Electric Cable, Underground in Conduit, IMSA 20-1, AWG 8, 2 Conductor
1330	666-B037		740	Linear Feet	Electric Cable, Underground in Conduit, THHN, AWG 1/0, 4 Conductor
1340	666-B040		305	Linear Feet	Electric Cable, Underground in Conduit, THHN, AWG #8, 3 Conductor
1350	666-B054		1,832	Linear Feet	Electric Cable, Underground in Conduit, IMSA 20-1, AWG 14, 8 Conductor
1360	668-A018		1,346	Linear Feet	Traffic Signal Conduit, Underground, Type 4, 2"
1370	668-A020		132	Linear Feet	Traffic Signal Conduit, Underground, Type 4, 3"
1380	668-A026		931	Linear Feet	Traffic Signal Conduit, Underground, Rolled Pipe, 3"
1390	682-A031		175	Linear Feet	Underground Branch Circuit, AWG 6, 3 Conductor
1400	682-B031		200	Linear Feet	Underground Branch Circuit, Jacked or Bored, AWG 6, 3 Conductor
1410	686-A001		1	Each	Relocation of Existing Lighting Assemblies
1420	808-A001	(S)	1,392	Linear Feet	Joint Preparation
1430	815-A007	(S)	165	Ton	Loose Riprap, Size 150
Changed 07/07/2014					
1440	815-A009	(S)	1,366	Ton	Loose Riprap, Size 300
1450	815-E001	(S)	875	Square Yard	Geotextile under Riprap
1460	907-216-A001		250	Square Yard	Solid Sodding
1470	907-225-A001		14	Acre	Grassing
1480	907-225-B001		28	Ton	Agricultural Limestone
1490	907-225-C001		28	Ton	Mulch, Vegetative Mulch
1500	907-226-A001		14	Acre	Temporary Grassing
1510	907-237-A003		8,000	Linear Feet	Wattles, 20"
1520	907-246-B002		250	Each	Rockbags
1530	907-249-A001		1,651	Ton	Riprap for Erosion Control
1540	907-249-B001		980	Cubic Yard	Remove and Reset Riprap
1550	907-304-A005	(GY)	7,977	Cubic Yard	Granular Material, LVM, Class 9, Group C
1560	907-304-A010	(GY)	1,345	Cubic Yard	Granular Material, LVM, Class 5, Group E
1570	907-307-C003	(M)	2,528	Square Yard	6" Soil-Lime-Water Mixing, Class C
Changed 08/20/2014					
1580	907-307-D001		34	Ton	Lime
Changed 08/20/2014					
1590	907-307-S001	(A3)	632	Gallon	Bituminous Curing Seal
Changed 08/20/2014					

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
1600	907-407-A001	(A2)	1,043	Gallon	Asphalt for Tack Coat
1610	907-413-E001		72	Linear Feet	Sawing and Sealing Transverse Joints in Asphalt Pavement
1620	907-601-B003	(S)	16	Cubic Yard	Class "B" Structural Concrete, Minor Structures
Changed 07/07/2014					
1630	907-605-O001	(S)	400	Linear Feet	6" Perforated Sewer Pipe for Underdrains, SDR 23.5
1640	907-605-O006	(S)	400	Linear Feet	12" Perforated Sewer Pipe for Underdrains, SDR 35
1650	907-605-P001	(S)	500	Linear Feet	6" Non-perforated Sewer Pipe for Underdrains, SDR 23.5
1660	907-605-P007	(S)	500	Linear Feet	12" Non-Perforated Sewer Pipe for Underdrains, SDR 35
1670	907-616-C002	(S)	6,000	Square Feet	Colored and Imprinted Concrete Median and Island Pavement, 6-inch Thickness
1680	907-616-C003	(S)	238	Square Feet	Colored and Imprinted Concrete Median and Island Pavement, 10-inch Thickness
1690	907-616-C004	(S)	1,290	Square Feet	Colored and Imprinted Concrete Median and Island Pavement, 4-inch Thickness
1700	907-617-A001		14	Each	Right-of-Way Marker
1710	907-618-A001		1	Lump Sum	Maintenance of Traffic
1720	907-618-B001		1	Square Feet	Additional Construction Signs [\$10.00]
1730	907-619-E3001		5	Each	Changeable Message Sign
1740	907-619-J3001		4	Each	Remove and Reset Impact Attenuator
1750	907-626-A006		9,440	Linear Feet	6" Thermoplastic Double Drop Traffic Stripe, Skip White
1760	907-626-B005		2,668	Linear Feet	6" Thermoplastic Double Drop Traffic Stripe, Continuous White
1770	907-626-C007		3,383	Linear Feet	6" Thermoplastic Double Drop Edge Stripe, Continuous White
1780	907-626-D005		1,657	Linear Feet	6" Thermoplastic Double Drop Traffic Stripe, Skip Yellow
1790	907-626-E005		1,657	Linear Feet	6" Thermoplastic Double Drop Traffic Stripe, Continuous Yellow
1800	907-626-F005		6,156	Linear Feet	6" Thermoplastic Double Drop Edge Stripe, Continuous Yellow
1810	907-626-G006		9,437	Linear Feet	Thermoplastic Double Drop Detail Stripe, White
1820	907-626-G007		2,215	Linear Feet	Thermoplastic Double Drop Detail Stripe, Yellow
1830	907-626-H009		1,963	Linear Feet	Thermoplastic Double Drop Legend, White
1840	907-626-H010		1,444	Square Feet	Thermoplastic Double Drop Legend, White
1850	907-637-A001		1	Each	Equipment Cabinet, Type B
1860	907-637-A002		1	Each	Equipment Cabinet, Type C
1870	907-639-A002		1	Each	Traffic Signal Equipment Pole, Type II, 17' Shaft, 50' Arm
1880	907-639-A007		1	Each	Traffic Signal Equipment Pole, Type II, 17' Shaft, 40' Arm
1890	907-639-A008		1	Each	Traffic Signal Equipment Pole, Type II, 17' Shaft, 55' Arm
1900	907-639-A011		3	Each	Traffic Signal Equipment Pole, Type II, 17' Shaft, 35' Arm
1910	907-639-A012		1	Each	Traffic Signal Equipment Pole, Type II, 17' Shaft, 45' Arm
1920	907-639-A087		1	Each	Traffic Signal Equipment Pole, Type III, 17' Shaft, 30' & 35' Arms
1930	907-639-A120		1	Each	Traffic Signal Equipment Pole, Type III, 17' Shaft, 30' & 30' Arms

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
1940	907-639-C002		6	Cubic Yard	Pole Foundations, 36" Diameter
1950	907-639-C004		13	Cubic Yard	Pole Foundations, 30" Diameter
1960	907-639-E001		3	Each	Camera Pole with Foundation, 50' Pole
1970	907-641-C001		3	Each	Signal Radar Detection System
1980	907-641-D001		1	Lump Sum	Signal Radar Detection Training
1990	907-642-A003		3	Each	Solid State Traffic Actuated Controllers, Type 8A
2000	907-644-C002		3	Each	Phase Selector, 4 Channel
2010	907-650-A002		8	Each	On Street Video Equipment, Fixed Type
2020	907-650-A003		3	Each	On Street Video Equipment, PTZ Type
2030	907-657-A001		3,890	Linear Feet	Fiber Optic Cable, 72 SM
2040	907-657-B001		85	Linear Feet	Fiber Optic Drop Cable, 12 SM
2050	907-658-A005		3	Each	Network Switch, Type A
2060	907-658-A006		1	Each	Network Switch, Type B
2070	907-668-E001		1,180	Linear Feet	Traffic Signal Conduit Bank, Underground, Rolled Pipe, 2"
2080	907-668-E002		2,005	Linear Feet	Traffic Signal Conduit Bank, Underground, Rolled Pipe, 2 @ 2"
2090	907-668-E003		165	Linear Feet	Traffic Signal Conduit Bank, Underground, Rolled Pipe, 3 @ 2"
2100	907-668-F002		320	Linear Feet	Traffic Signal Conduit Bank, Underground, Drilled or Jacked, Rolled Pipe, 2 @ 2"
2110	907-668-F003		390	Linear Feet	Traffic Signal Conduit Bank, Underground, Drilled or Jacked, Rolled Pipe, 3 @ 2"
2120	907-668-G002		455	Linear Feet	Traffic Signal Conduit Bank, Aerial Supported, Type I, 2 @ 2"
2130	907-699-A002		1	Lump Sum	Roadway Construction Stakes
2140	907-815-F001	(S)	239	Ton	Sediment Control Stone
2150	907-823-A001		696	Linear Feet	Preformed Joint Seal, Type I
2160	907-823-B001		1,392	Linear Feet	Saw Cut, Type I
2170	907-825-A001	(S)	6,560	Square Feet	Soil Nail Retaining Walls
Changed 07/07/2014					
2180	907-825-B001	(S)	5	Each	Soil Nail Verification Tests
2190	907-825-C001	(S)	35	Each	Soil Nail Proof Tests
2200	907-899-A001		1	Lump Sum	Railway-Highway Provisions
ALTERNATE GROUP AA NUMBER 1					
2210	907-304-F002	(GT)	305	Ton	Size 610 Crushed Stone Base
ALTERNATE GROUP AA NUMBER 2					
2220	907-304-F003	(GT)	305	Ton	3/4" and Down Crushed Stone Base
ALTERNATE GROUP AA NUMBER 3					
2230	907-304-F004	(GT)	305	Ton	Size 825B Crushed Stone Base
ALTERNATE GROUP BB NUMBER 1					

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
2240	907-308-A001		234	Ton	Portland Cement
Changed 08/20/2014					
2250	907-308-B001	(M)	19,342	Square Yard	Soil-Cement-Water Mixing, Optional Mixers, Base
Changed 08/20/2014					
2260	907-308-S001	(A3)	4,836	Gallon	Bituminous Curing Seal
Changed 08/20/2014					
ALTERNATE GROUP BB NUMBER 2					
2270	907-311-A003	(M)	19,342	Square Yard	Processing Lime and Fly Ash Treated Course, 6" Thick
Changed 08/20/2014					
2280	907-311-B001		97	Ton	Lime
Changed 08/20/2014					
2290	907-311-C001		522	Ton	Fly Ash, Class C
Changed 08/20/2014					
2300	907-311-S001	(A3)	4,836	Gallon	Bituminous Curing Seal
Changed 08/20/2014					
ALTERNATE GROUP CC NUMBER 1					
2310	907-403-N008	(BA1)	12	Ton	Warm Mix Asphalt, HT, 9.5-mm mixture, Leveling
ALTERNATE GROUP CC NUMBER 2					
2320	907-403-B003	(BA1)	12	Ton	Hot Mix Asphalt, HT, 9.5-mm mixture, Leveling
ALTERNATE GROUP DD NUMBER 1					
2330	907-403-A002	(BA1)	976	Ton	Hot Mix Asphalt, HT, 19-mm mixture
ALTERNATE GROUP DD NUMBER 2					
2340	907-403-M011	(BA1)	976	Ton	Warm Mix Asphalt, HT, 19-mm mixture
ALTERNATE GROUP EE NUMBER 1					
2350	907-403-A006	(BA1)	202	Ton	Hot Mix Asphalt, MT, 12.5-mm mixture
ALTERNATE GROUP EE NUMBER 2					
2360	907-403-M002	(BA1)	202	Ton	Warm Mix Asphalt, MT, 12.5-mm mixture
ALTERNATE GROUP FF NUMBER 1					
2370	907-403-A007	(BA1)	302	Ton	Hot Mix Asphalt, MT, 19-mm mixture
ALTERNATE GROUP FF NUMBER 2					
2380	907-403-M007	(BA1)	302	Ton	Warm Mix Asphalt, MT, 19-mm mixture
Changed 07/07/2014					
ALTERNATE GROUP GG NUMBER 1					
2390	907-403-A010	(BA1)	857	Ton	Hot Mix Asphalt, MT, 9.5-mm mixture
ALTERNATE GROUP GG NUMBER 2					

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
2400	907-403-M006	(BA1)	857	Ton	Warm Mix Asphalt, MT, 9.5-mm mixture ALTERNATE GROUP HH NUMBER 1
2410	907-403-A011	(BA1)	155	Ton	Hot Mix Asphalt, ST, 12.5-mm mixture ALTERNATE GROUP HH NUMBER 2
2420	907-403-M003	(BA1)	155	Ton	Warm Mix Asphalt, ST, 12.5-mm mixture ALTERNATE GROUP II NUMBER 1
2430	907-403-A012	(BA1)	1,545	Ton	Hot Mix Asphalt, ST, 19-mm mixture ALTERNATE GROUP II NUMBER 2
2440	907-403-M004	(BA1)	1,545	Ton	Warm Mix Asphalt, ST, 19-mm mixture ALTERNATE GROUP JJ NUMBER 1
2450	907-403-A015	(BA1)	214	Ton	Hot Mix Asphalt, ST, 9.5-mm mixture ALTERNATE GROUP JJ NUMBER 2
2460	907-403-M001	(BA1)	214	Ton	Warm Mix Asphalt, ST, 9.5-mm mixture ALTERNATE GROUP KK NUMBER 1
2470	907-403-D001	(BA1)	787	Ton	Hot Mix Asphalt, HT, 12.5-mm mixture, Polymer Modified ALTERNATE GROUP KK NUMBER 2
2480	907-403-P002	(BA1)	787	Ton	Warm Mix Asphalt, HT, 12.5-mm mixture, Polymer Modified ALTERNATE GROUP LL NUMBER 1
2490	907-403-D004	(BA1)	590	Ton	Hot Mix Asphalt, HT, 9.5-mm mixture, Polymer Modified ALTERNATE GROUP LL NUMBER 2
2500	907-403-P001	(BA1)	590	Ton	Warm Mix Asphalt, HT, 9.5-mm mixture, Polymer Modified Bridge Items
2510	501-K001		2,700	Square Yard	Transverse Grooving
2520	803-B002	(S)	1	Each	Conventional Static Pile Load Test [\$5,000.00]
2530	803-D006	(S)	1,290	Linear Feet	HP 14 x 117 Steel Piling
2540	803-I001	(S)	2	Each	PDA Test Pile
2550	803-J001	(S)	1	Each	Pile Restrike
2560	803-N001	(S)	190	Linear Feet	Exploration
2570	803-O009	(S)	75	Linear Feet	Temporary Casing, 54" Diameter
2580	803-O010	(S)	118	Linear Feet	Temporary Casing, 60" Diameter
2590	803-O020	(S)	150	Linear Feet	Permanent Casing, 54" Diameter
Changed 08/20/2014					
2600	805-A001	(S)	293,556	Pounds	Reinforcement
2610	813-A002	(S)	1,354	Linear Feet	Concrete Railing, 32"
2620	815-D001	(S)	143	Cubic Yard	Concrete Slope Paving

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
2630	907-607-PP019		270	Linear Feet	Safety Fence, Per Plans
2640	907-803-K003	(S)	495	Linear Feet	Drilled Shaft, 54" Diameter
2650	907-803-K006	(S)	436	Linear Feet	Drilled Shaft, 60" Diameter
2660	907-803-L005	(S)	1	Each	Test Shaft, 54" Diameter (Multi-Level Load Cell Test)
2670	907-803-L005	(S)	1	Each	Test Shaft, 54" Diameter (Single-Level Load Cell Test)
2680	907-803-M005	(S)	66	Linear Feet	Trial Shaft, 60" Diameter
2690	907-804-A001	(S)	1,450	Cubic Yard	Bridge Concrete, Class AA
2700	907-804-C012	(S)	1,077	Linear Feet	135' Prestressed Concrete Beam, Type BT-72
2710	907-804-C030	(S)	2,885	Linear Feet	80' Prestressed Concrete Beam, Type III
2720	907-804-C231	(S)	411	Linear Feet	60' Prestressed Concrete Beam, Type IV
2730	907-824-PP093		1	Lump Sum	Bridge Repair, Remove & Repair Damaged Concrete PileEncasements, Per Plans

DESCRIPTION OF SHEET

WKG.
NO.

SH.
NO.

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DESCRIPTION OF SHEET

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LEHMAN		
PS & E PLANS-DATE: 05/28/2014		
FMS CON. # 105536/301000		
REVISIONS		
DATE	SHEET NO.	BY
6/30/14	4,12,18-19,22,25-26,35,130-131,133-134,137-138,140-141	IBL
8/13/14	2-4,8,17-19,22,24,26,34,35,95-96,101,104,142-143	IBL



MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DETAILED INDEX

PROJECT NO. HSIP-0020-01(191)
COUNTY : RANKIN

WORKING NUMBER
DI-1

FILENAME: DETAIL INDEX.DGN
DESIGN TEAM LEHMAN CHECKED DATE 11/30/2014

SHEET NUMBER
2

ADDENDUM

PLAN DIVISION
ROADWAY
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
8/13/2014 9:51 AM DETAILED INDEX.DGN

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PERMANENT SIGNING - I-20 WEST BRANDON INTERCHANGE		PSP-1	1001
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PERMANENT SIGNING - I-20 WEST BRANDON INTERCHANGE		PSP-3	1003
PERMANENT SIGNING - I-20 WEST BRANDON INTERCHANGE		PSD-1	1004
PERMANENT SIGNING - I-20 WEST BRANDON INTERCHANGE		PSD-2	1005



DESCRIPTION OF SHEET		REVISION DATE	WKG. NO.	SH. NO.
TRAFFIC SIGNAL SHEETS (10)				
TRAFFIC SIGNAL INSTALLATION- I-20 WEST BRANDON INTERCHANGE		TSI-1	2001	
TRAFFIC SIGNAL INSTALLATION- I-20 WEST BRANDON INTERCHANGE		TSI-2	2002	
TRAFFIC SIGNAL INSTALLATION- I-20 WEST BRANDON INTERCHANGE		TSI-3	2003	
DETAIL OF TRAFFIC SIGNAL HEADS, TRAFFIC SIGNAL SIGNS, AND GENERAL NOTES		TSD-1	2004	
LOOP DETECTOR DETAILS FOR TRAFFIC SIGNAL INSTALLATION		TSD-2	2005	
PULL BOX AND CONDUIT TRENCHING DETAILS FOR TRAFFIC SIGNAL INSTALLATION		TSD-3	2006	
TYPICAL DETAILS OF CONTROLLER CABINET MOUNTINGS, TYPE 1 POLE				
ATTACHMENTS & MISCELLANEOUS DETAILS		TSD-5	2007	
MAST ARM AND PEDESTAL POLE DETAILS FOR TRAFFIC SIGNAL INSTALLATION		TSD-6	2008	
CITY OF BRANDON STANDARD SIGNAL DETAILS AND MAST ARM SIGNAL POLES		TSD-6A	2009	
TRAFFIC CONTROL PLAN (TYPICAL SIGNAL INSTALLATION)		TSD-7	2010	
I.T.S. COMPONENTS SHEETS (18)				
GENERAL NOTES AND I.T.S. LEGEND		GN-1	3001	
PROJECT LOCATION PLAN		LP-1	3002	
US 80 STA. 15+00 - STA. 34+10 I-20 WEST BRANDON INTERCHANGE		ITS-1	3003	
US 80 STA. 15+00 - STA. 34+10 I-20 WEST BRANDON INTERCHANGE		ITS-2	3004	
US 80 STA. 15+00 - STA. 34+10 I-20 WEST BRANDON INTERCHANGE		ITS-3	3005	
INTERSTATE 20 STA. 232+10 - STA. 249+55 I-20 WEST BRANDON INTERCHANGE		ITS-4	3006	
INTERSTATE 20 STA. 232+10 - STA. 249+55 I-20 WEST BRANDON INTERCHANGE		ASC-1	3007	
AERIAL SUPPORTED CONDUIT - NOTES AND TYPICAL DETAILS		ASC-2	3008	
AERIAL SUPPORTED CONDUIT - NOTES AND TYPICAL DETAILS		CAB-1	3009	
CABINET DETAILS - POLE-MOUNTED CCTV DETAILS		CCTV-1	3010	
EQUIPMENT DETAILS - SITE & SYSTEM BLOCK DIAGRAMS		ED-1	3011	
FIBER OPTIC DETAILS - PULLBOX AND CONDUIT TRENCHING DETAILS		FO-1	3012	
FIBER OPTIC DETAILS - FIBER SLICING DETAILS		FO-2	3013	
FIBER OPTIC DETAILS - TERMINATION CABINET TABLES		FO-3	3014	
FIBER OPTIC DETAILS - TERMINATION CABINET TABLES		FO-4	3015	
FIBER OPTIC DETAILS - CABLE MANAGEMENT DETAILS		FO-5	3016	
FIBER OPTIC DETAILS - CABINET ENTRANCE DETAILS		FO-6	3017	
FIBER OPTIC DETAILS - POWER SERVICE DETAILS		POW-1	3018	
LIGHTING DRAWINGS - (2)				
LIGHTING LAYOUT		L-1	4001	
LIGHTING DETAIL		LD-1	4002	
STANDARD DRAWINGS - ROADWAY SHEETS (43)				
PAVEMENT MARKING DETAILS FOR 2 & 4-LANE DIVIDED ROADWAYS	12-1-99	PM-1	6120	
PAVEMENT MARKING LEGEND DETAILS		PM-6	6125	
EROSION CONTROL		EC-1	6140	
TYPICAL TEMPORARY EROSION CONTROL MEASURES - SILT BASIN		TEC-1	6144	
FENCE: CHAIN LINK CLASS I	3-1-02	CL-1	6162	
GUARD RAIL : "W" BEAM (WOOD POSTS)	3-1-02	GR-1	6180	
GUARD RAIL : THRIE BEAM (WOOD POSTS)	3-1-02	GR-1A	6181	
GUARD RAIL : "W" BEAM (STEEL POSTS)	3-1-02	GR-1B	6182	
GUARD RAIL : MODIFIED THRIE BEAM (STEEL POSTS)	3-1-02	GR-1C	6183	
GUARD RAIL : TYPICAL INSTALLATION AT BRIDGE APPROACHES FOR 2-LANE, 2-WAY HIGHWAYS	12-1-99	GR-4A	6195	
GUARD RAIL : MISCELLANEOUS HARDWARE	3-1-02	GR-HW	6202	
MEDIAN BARRIER: CONCRETE (CAST IN PLACE)		MB-2	6204	
MEDIAN BARRIER: CONCRETE (PRECAST)	3-1-02	MB-2A	6205	



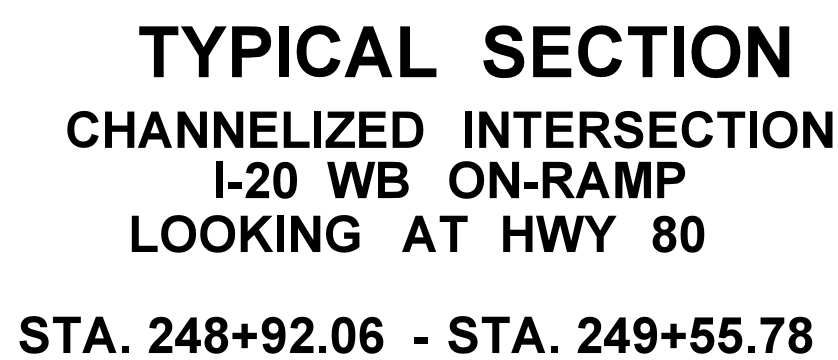
MISSISSIPPI DEPARTMENT OF TRANSPORTATION			
DETAILED INDEX			
PROJECT NO. HSIP-0020-01(191) COUNTY : RANKIN		WORKING NUMBER DI-2	
FILENAME: DETAIL INDEX.DGN		SHEET NUMBER 3	
DESIGN TEAM LEHMAN		CHECKED DATE 12/30/2014	

ADDENDUM

STATE	PROJECT NO.
MISS.	HSIP-0020-01(191)

[illegible][illegible]

				MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
				DETAILED INDEX	
				PROJECT NO. HSIP-0020-01(191)	
				COUNTY : RANKIN	
				WORKING NUMBER	
				DI-3	
				SHEET NUMBER	
				4	
				FILENAME: DETAIL INDEX.DGN	
				DATE 1/30/2014	
				DESIGN TEAM LEHMAN CHECKED	



- * PLANS WILL ALLOW SOIL CEMENT (5.5% CEMENT) OR LIME FLYASH (3% LIME, 12% FLYASH) TREATMENT OF THE GRANULAR MATERIAL.
- ** PLANS QUANTITIES WILL ALLOW SOIL CEMENT TREATMENT (4% CEMENT) OR LIME FLYASH TREATMENT (3% LIME, 12% FLYASH) OF 80% OF THE PROJECT AND LIME TREATMENT (6% LIME) OF THE REMAINING 20% OF THE PROJECT.
- THE BREAKDOWN OF CHEMICAL TREATMENT IS FOR THE PURPOSE OF PLAN QUANTITY ESTIMATION ONLY. THE SELECTION OF ACTUAL TREATMENT WILL BE MADE DURING CONSTRUCTION.

ANGLE OF REPOSE PERMITTED

NOT TO SCALE

[illegible]

PAY ITEM NO.	PAY ITEM	UNIT	PRELIMINARY	FINAL
OR				
907-304-F004	SIZE 825B CRUSHED STONE BASE	TON	305	
907-307-C003	6" SOIL-LIME-WATER MIXING, CLASS C	SY	2528	
907-307-D001	LIME	TON	34	
907-307-S001	BITUMINOUS CURING SEAL	GAL	632	
OR				
907-308-A001	PORTLAND CEMENT	TON	234	
907-308-B001	SOIL-CEMENT-WATER MIXING, OPTIONAL MIXERS, BASE	SY	19342	
907-308-S001	BITUMINOUS CURING SEAL	GAL	4836	
OR				
907-311-A003	PROCESSING LIME AND FLY ASH TREATED COURSE, 6" THICK	SY	19,342	
907-311-B001	LIME	TON	97	
907-311-C001	FLY ASH, CLASS C	TON	522	
907-311-S001	BITUMINOUS CURING SEAL	GAL	4,836	
907-403-B003	HOT MIX ASPHALT, HT, 9.5-MM MIXTURE, LEVELING	TON	12	
OR				
907-403-N008	WARM MIX ASPHALT, HT, 9.5-MM MIXTURE, LEVELING	TON	12	
907-403-A002	HOT MIX ASPHALT, HT, 19-MM MIXTURE	TON	976	
OR				
907-403-M011	WARM MIX ASPHALT, HT, 19-MM MIXTURE	TON	976	
907-403-A006	HOT MIX ASPHALT, MT, 12.5-MM MIXTURE	TON	202	
OR				
907-403-M002	WARM MIX ASPHALT, MT, 12.5-MM MIXTURE	TON	202	
907-403-A007	HOT MIX ASPHALT, MT, 19-MM MIXTURE	TON	302	
OR				
907-403-M007	WARM MIX ASPHALT, MT, 19-MM MIXTURE	TON	302	
907-403-A010	HOT MIX ASPHALT, MT, 9.5-MM MIXTURE	TON	857	
OR				
907-403-M006	WARM MIX ASPHALT, MT, 9.5-MM MIXTURE	TON	857	
907-403-A011	HOT MIX ASPHALT, ST, 12.5-MM MIXTURE	TON	155	
OR				
907-403-M003	WARM MIX ASPHALT, ST, 12.5-MM MIXTURE	TON	155	
907-403-A012	HOT MIX ASPHALT, ST, 19-MM MIXTURE	TON	1545	
OR				
907-403-M004	WARM MIX ASPHALT, ST, 19-MM MIXTURE	TON	1545	
907-403-A015	HOT MIX ASPHALT, ST, 9.5-MM MIXTURE	TON	214	
OR				
907-403-M001	WARM MIX ASPHALT, ST, 9.5-MM MIXTURE	TON	214	
907-403-D001	HOT MIX ASPHALT, HT, 12.5-MM MIXTURE, POLYMER MODIFIED	TON	787	
OR				
907-403-P002	WARM MIX ASPHALT, HT, 12.5-MM MIXTURE, POLYMER MODIFIED	TON	787	
907-403-D004	HOT MIX ASPHALT, HT, 9.5-MM MIXTURE, POLYMER MODIFIED	TON	590	
OR				
907-403-P001	WARM MIX ASPHALT, HT, 9.5-MM MIXTURE, POLYMER MODIFIED	TON	590	
406-A001	COLD MILLING OF BITUMINOUS PAVEMENT, ALL DEPTHS	SY	9153	

- ① INCLUDES 20% INCREASE FROM CALCULATED QUANTITY.
- ② INCLUDES 114 TONS FOR CHEMICALLY TREATED GRANULAR MATERIAL AND 120 TONS FOR CHEMICALLY TREATED SUBGRADE. 2
- ③ INCLUDES 9,230 S.Y. FOR CHEMICALLY TREATED GRANULAR MATERIAL AND 10,112 S.Y. FOR CHEMICALLY TREATED SUBGRADE. 2
- ④ INCLUDES 2307 GAL. FOR CHEMICALLY TREATED GRANULAR MATERIAL AND 2528 GAL. FOR CHEMICALLY TREATED SUBGRADE. 2
- ⑤ INCLUDES 29 TONS FOR CHEMICALLY TREATED GRANULAR MATERIAL AND 68 TONS FOR CHEMICALLY TREATED SUBGRADE. 2
- ⑥ INCLUDES 249 TONS FOR CHEMICALLY TREATED GRANULAR MATERIAL AND 273 TONS FOR CHEMICALLY TREATED SUBGRADE. 2

[illegible]

SUMMARY OF QUANTITIES (SHEET 3)

PAY ITEM NO.	PAY ITEM	UNIT	PRELIMINARY	FINAL
907-407-A001	ASPHALT FOR TACK COAT	GAL	1043	
413-B001	CLEANING AND SEALING JOINTS	LF	404	
907-413-E001	SAWING AND SEALING TRANSVERSE JOINTS IN ASPHALT PAVEMENT	LF	72	
423-A001	RUMBLE STRIPS, GROUND IN	MI	1	
501-E001	EXPANSION JOINTS, WITHOUT DOWELS	LF	86	
502-A001	REINFORCED CEMENT CONCRETE BRIDGE END PAVEMENT	SY	187	
503-C007	SAW CUT, FULL DEPTH	LF	2040	
907-601-B003	CLASS "B" STRUCTURAL CONCRETE, MINOR STRUCTURES	CY	16	
602-A001	REINFORCING STEEL	LBS	1008	
603-CA107	24" REINFORCED CONCRETE PIPE, CLASS V, JACKED OR BORED	LF	248	
603-CA002	18" REINFORCED CONCRETE PIPE, CLASS III	LF	176	
603-CA003	24" REINFORCED CONCRETE PIPE, CLASS III	LF	88	
603-CA004	30" REINFORCED CONCRETE PIPE, CLASS III	LF	8	
603-CA005	36" REINFORCED CONCRETE PIPE, CLASS III	LF	160	
603-CA017	36" REINFORCED CONCRETE PIPE, CLASS IV	LF	56	
603-CB001	18" REINFORCED CONCRETE END SECTION	EA	5	
603-CB002	24" REINFORCED CONCRETE END SECTION	EA	5	
603-CB003	30" REINFORCED CONCRETE END SECTION	EA	1	
603-CB004	36" REINFORCED CONCRETE END SECTION	EA	3	
604-B001	GRATINGS	LBS	250	
604-A001	CASTINGS	LBS	237	
605-AA003	GEOTEXTILE FOR SUBSURFACE DRAINAGE, TYPE III	SY	66	
605-AA004	GEOTEXTILE FOR SUBSURFACE DRAINAGE, TYPE V	SY	2425	
907-605-O001	6" PERFORATED SEWER PIPE FOR UNDERDRAINS, SDR 23.5	LF	400	
907-605-P001	6" NON-PERFORATED SEWER PIPE FOR UNDERDRAINS, SDR 23.5	LF	500	
907-605-O006	12" PERFORATED SEWER PIPE FOR UNDERDRAINS, SDR 35	LF	400	
907-605-P007	12" NON-PERFORATED SEWER PIPE FOR UNDERDRAINS, SDR 35	LF	500	
605-W001	FILTER MATERIAL FOR COMBINATION STORM DRAIN AND/OR UNDERDRAINS,TYPE A, FM	CY	224	
605-W002	FILTER MATERIAL FOR COMBINATION STORM DRAIN AND/OR UNDERDRAINS,TYPE B, FM	CY	120	
606-B001	GUARD RAIL, CLASS A, TYPE 1	LF	300	
606-D012	GUARD RAIL, BRIDGE END SECTION, TYPE I	EA	4	
606-E001	GUARD RAIL, TERMINAL END SECTION	EA	4	
607-B001	60" TYPE I CHAIN LINK FENCE, CLASS I	LF	1768	
607-G132	GATE, 3' X 60" CHAIN LINK	EA	2	
607-P1007	LINE POST, 7' X 1 1/2" GALVANIZED STEEL	EA	171	
607-P2008	BRACE POST, 7 1/2' X 2" GALVANIZED STEEL	EA	15	
607-P2017	BRACE POST, 5' X 2 1/2" GALVANIZED STEEL	EA	2	
607-P3003	GATE POST, 8' X 2 1/2" GALVANIZED STEEL	EA	4	
609-B001	CONCRETE CURB, HEADER	LF	1075	
609-B004	CONCRETE CURB, SPECIAL DESIGN HEADER	LF	944	
609-D002	COMBINATION CONCRETE CURB AND GUTTER TYPE 2	LF	443	
609-D008	COMBINATION CONCRETE CURB AND GUTTER TYPE 3A	LF	493	
615-A012	CONCRETE TYPE IV MODIFIED, 42" HEIGHT, CAST-IN-PLACE MEDIAN BARRIER	LF	548	
615-A018	CONCRETE BRIDGE END BARRIER, 33.5"	LF	40	
615-A020	CONCRETE TYPE III MODIFIED CAST-IN-PLACE MEDIAN BARRIER, 42" HIGH	LF	269	
615-A022	CONCRETE PIER PROTECTION BARRIER, 54"	LF	190	
907-616-C002	COLORLED AND IMPRINTED CONCRETE MEDIAN AND ISLAND PAVEMENT, 6-INCH THICKNESS	SF	6000	
907-616-C003	COLORLED AND IMPRINTED CONCRETE MEDIAN AND ISLAND PAVEMENT, 10-INCH THICKNESS	SF	238	
907-616-C004	COLORLED AND IMPRINTED CONCRETE MEDIAN AND ISLAND PAVEMENT, 4-INCH THICKNESS	SF	1290	
907-617-A001	RIGHT-OF-WAY MARKER	EA	14	
907-618-A001	MAINTENANCE OF TRAFFIC	LS	100%	
619-A1001	TEMPORARY TRAFFIC STRIPE, CONTINUOUS WHITE	LF	2818	
619-A2001	TEMPORARY TRAFFIC STRIPE, CONTINUOUS YELLOW	LF	3835	
619-A3001	TEMPORARY TRAFFIC STRIPE, SKIP WHITE	LF	120	

- ① ESTIMATED QUANTITY, ACTUAL QUANTITY MAY VARY AS DIRECTED BY THE ENGINEER
- ① ② THESE QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER TO REPLACE THE SPRING FILTERS BETWEEN STATIONS 615+00 AND 625+00.
- ③ LENGTH OF GUARDRAIL REQUIRED IS BASED ON A TERMINAL SECTION OF 37.5 FEET BEING USED. FOR ANY OTHER LENGTH TERMINAL SECTION, THE LENGTH OF NORMAL GUARDRAIL WILL BE ADJUSTED.
- ④ FLEAT-350, REGENT, SRT-350, ROSS-350 OR APPROVED FLARED EQUAL TO BE INSTALLED FOLLOWING MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL PROVIDE TWO COPIES OF MANUFACTURER'S INSTALLATION DETAILS TO THE PROJECT ENGINEER. THE ENGINEER SHALL KEEP ONE COPY IN PROJECT FILE AND PROVIDE ONE COPY TO DISTRICT MAINTENANCE ENGINEER. THE INSTALLATION DETAILS SHALL BE ENGINEERING DRAWINGS, A MINIMUM OF 11" x 17" IN SIZE. REFLECTIVE ADHESIVE SHEETING WITH ALTERNATING BLACK AND YELLOW STRIPES (SLOPING DOWNWARD AT AN ANGLE OF 45 DEGREES IN THE DIRECTION TRAFFIC IS TO PASS) IS REQUIRED ON THE END OF THE TERMINAL SECTION. THE TYPE OF TERMINAL ERECTED SHALL BE WRITTEN ON THE BACK OF THE TERMINAL WITH A SANFORD MEANSTREAK WATERPROOF FORMULA PERMANENT MARKING STICK OR SOME OTHER MEANS OF PERMANENT IDENTIFICATION.
- ⑤ QUANTITY INCLUDES 3 CY FOR SIGN FOOTINGS.
- ⑥ QUANTITY INCLUDES 505 LBS FOR SIGN FOOTINGS.

8/23/24

ADDED PAYITEM, EDITED QUANTITY

6/20/24

ADDED PAYITEM, UPDATED QUANTITY

AND ADDED & EDITED FOOTNOTE

DATE

IBL

IBL

IBL

IBL

DATE

REVISION

BY

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

PROJECT NO.: HSIP-0020-01(191)

RANKIN COUNTY

FILENAME: SQS_SH.DGN

DESIGN TEAM LEHMAN CHECKED DATE

DEPARTMENT OF TRANSPORTATION

MISSISSIPPI

WORKING NUMBER

SQ-3

SHEET NUMBER

19

ADDENDUM

STATE	PROJECT NO.
MISS.	HSIP-0020-01(191)

SUMMARY OF QUANTITIES (SHEET 6)

[illegible]

① THE CONCRETE FACE OF THE SOIL NAIL WALL SHALL BE CONTRACTOR DESIGNED ACCORDING TO SPECIAL PROVISION NO. 907-825-2. A TWO (2) INCH CLEARANCE IS REQUIRED BETWEEN THE FORM LINER AND REINFORCING. ②

[illegible]

[illegible]

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
8/13/2014 9:49 AM EQUAN.DGN

ADDENDUM

STATE	PROJECT NO.
MISS.	HSIP-0020-01(191)

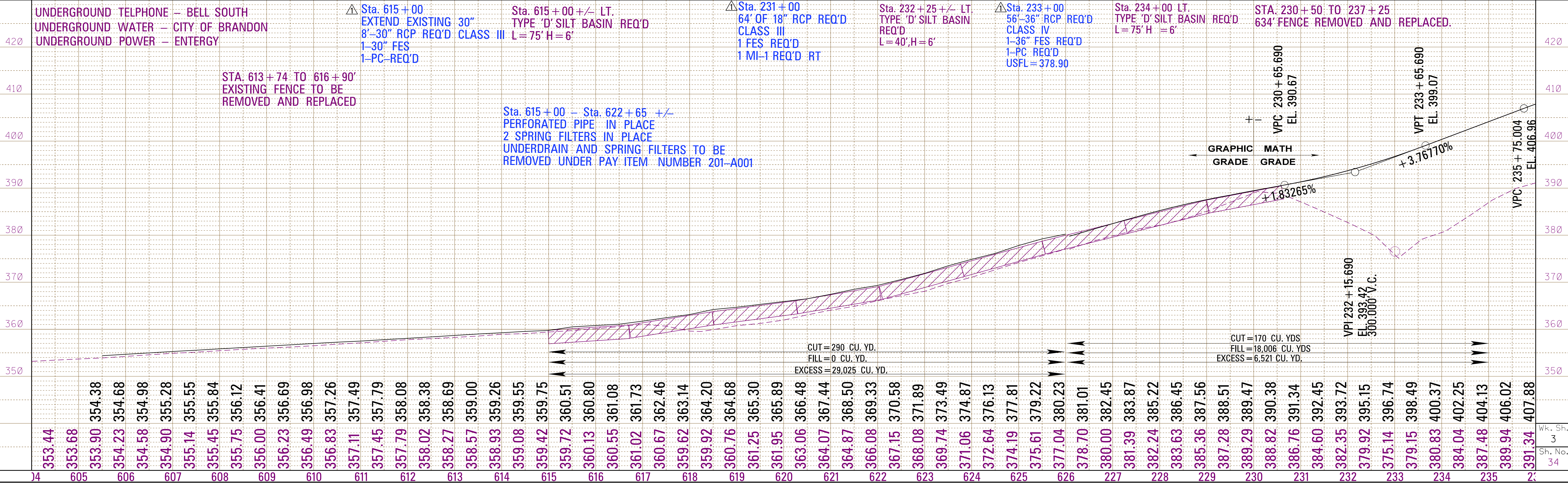
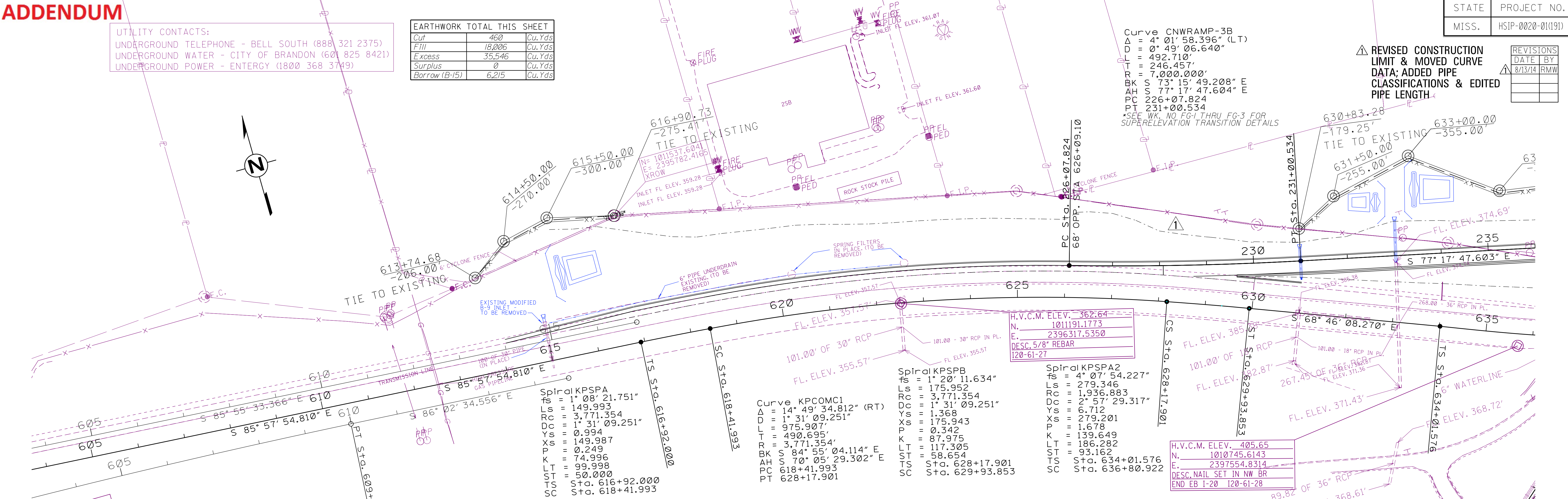
UTILITY CONTACTS:
UNDERGROUND TELEPHONE - BELL SOUTH (888 321 2375)
UNDERGROUND WATER - CITY OF BRANDON (601 825 8421)
UNDERGROUND POWER - ENTERGY (1800 368 3749)

EARTHWORK TOTAL THIS SHEET			
Cut	460	Cu.Yds	
Fill	18,006	Cu.Yds	
Excess	35,546	Cu.Yds	
Surplus	0	Cu.Yds	
Borrow (B-I-5)	6,215	Cu.Yds	

REVISIONS		
DATE	BY	
8/13/14	RMW	

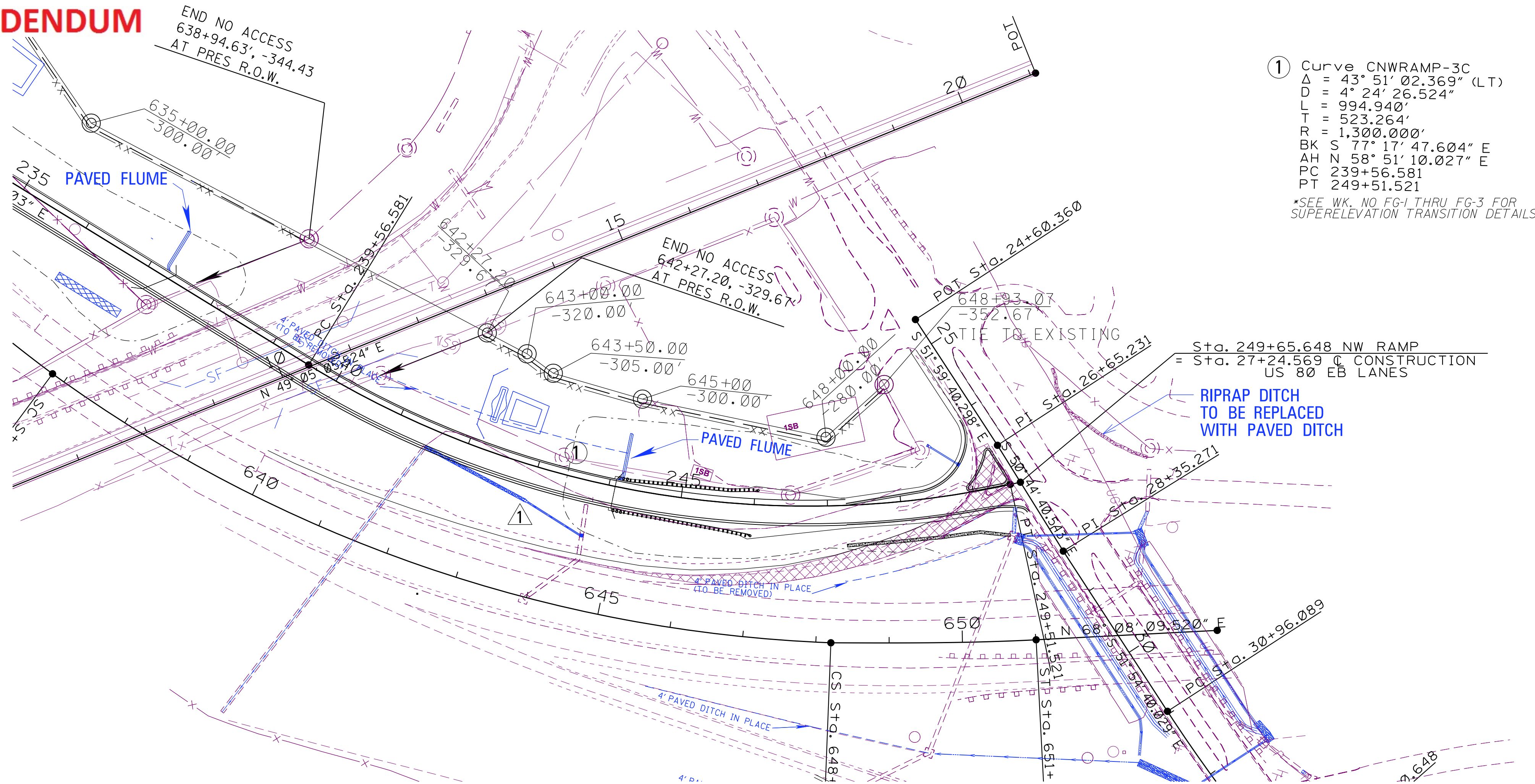
REVISD CONSTRUCTION
LIMIT & MOVED CURVE
DATA; ADDED PIPE
CLASSIFICATIONS & EDITED
PIPE LENGTH

Curve CNWRAMP-3B
Δ = 4° 01' 58.396" (LT)
D = 0° 49' 06.640"
L = 492.710'
R = 7,000.000'
BK S 73° 15' 49.208" E
AI S 77° 17' 47.604" E
PC 226+07.824
PT 231+00.534
*SEE WK NO FG-1 THRU FG-3 FOR
SUPERELEVATION TRANSITION DETAILS



ADDENDUM

END NO ACCESS
638+94.63', -344.43
AT PRES R.O.W.



① Curve CNWRAMP-3C
 $\Delta = 43^{\circ} 51' 02.369''$ (LT)
 $D = 4^{\circ} 24' 26.524''$
 $L = 994.940'$
 $T = 523.264'$
 $R = 1,300.000'$
 BK S $77^{\circ} 17' 47.604''$ E
 AH N $58^{\circ} 51' 10.027''$ E
 PC 239+56.581
 PT 249+51.521
 *SEE WK. NO FG-1 THRU FG-3 FOR
 SUPERELEVATION TRANSITION DETAILS

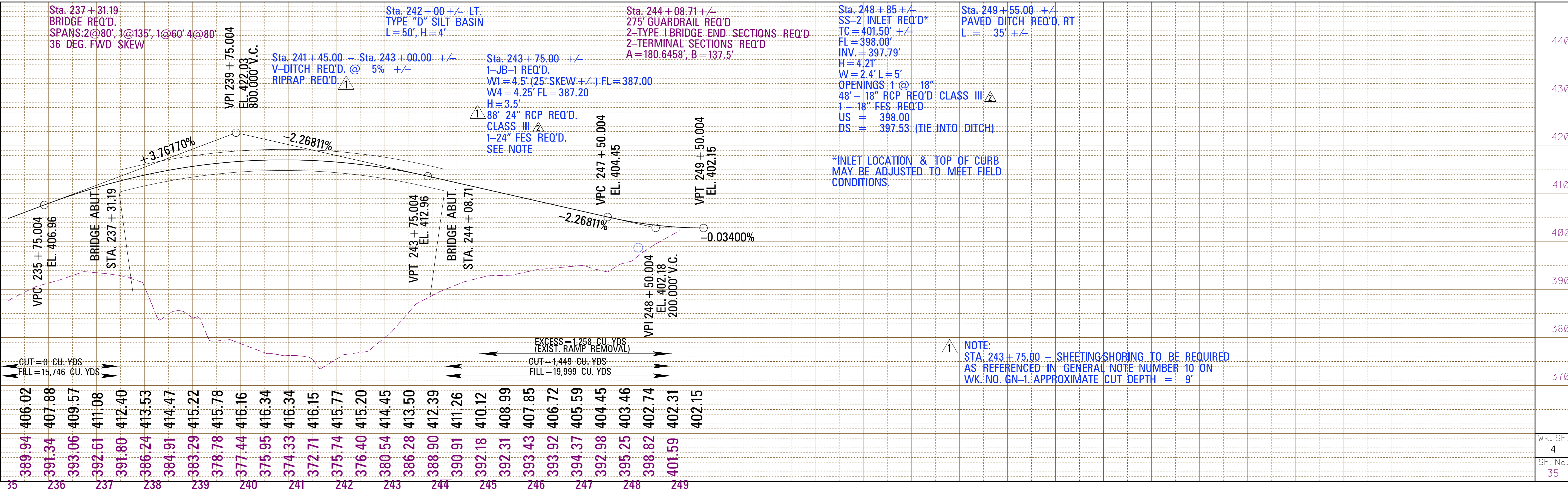
⚠️ ADDED DRAINAGE PIPE NOTE,
REVISED DITCH STATION LIMITS,
INCLUDED PROPOSED ROW

⚠️ ADDED PIPE CLASSIFICATIONS;
EDITED PIPE LENGTH

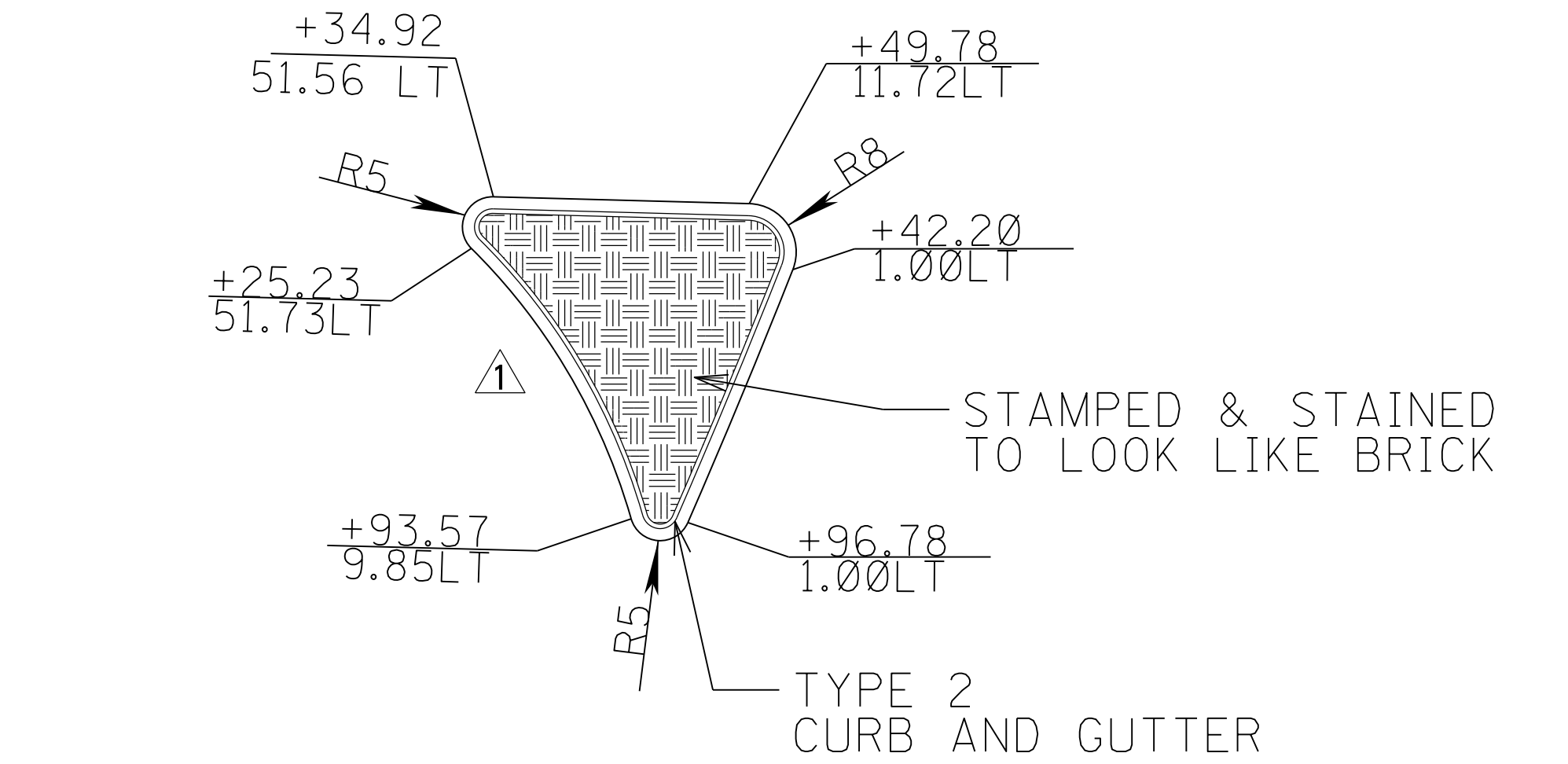
EROSION CONTROL ITEMS	UNITS	SYMBOL	TOTALS
DITCH LINER	S.Y.		
SOIL REINF. MATERIAL	S.Y.		
PAVED DITCH	C.Y.		20
RIP RAP	TON		46
SILT FENCE	L.F.		556
SUPER SILT FENCE	L.F.		
GEOTEXTILE	S.Y.		
SOLID SOD	S.Y.		172
EROSION CHECKS	BALE		

 INDICATES REMOVAL
OF CONCRETE/ASPHALT
PAVEMENT

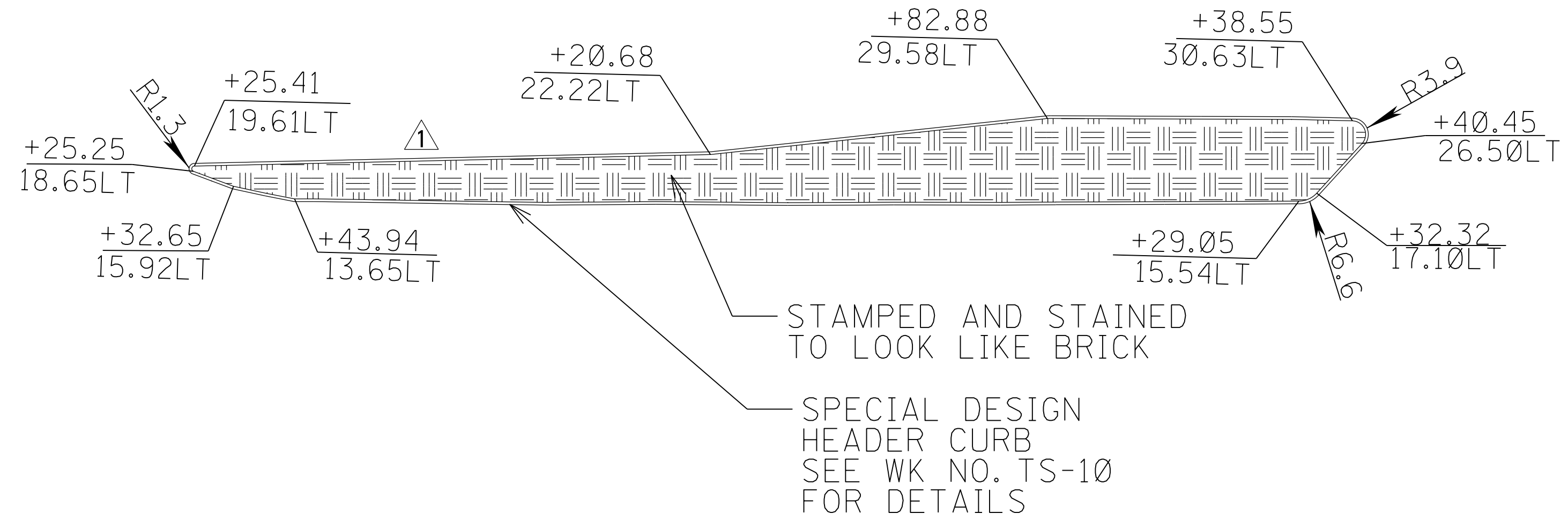
EARTHWORK TOTAL THIS SHEET		
Cut	1,449	Cu. Yds.
Fill	35,745	Cu. Yds.
Excess	1,258	Cu. Yds.
Surplus	0	Cu. Yds.
Borrow (B-15)	0	Cu. Yds.



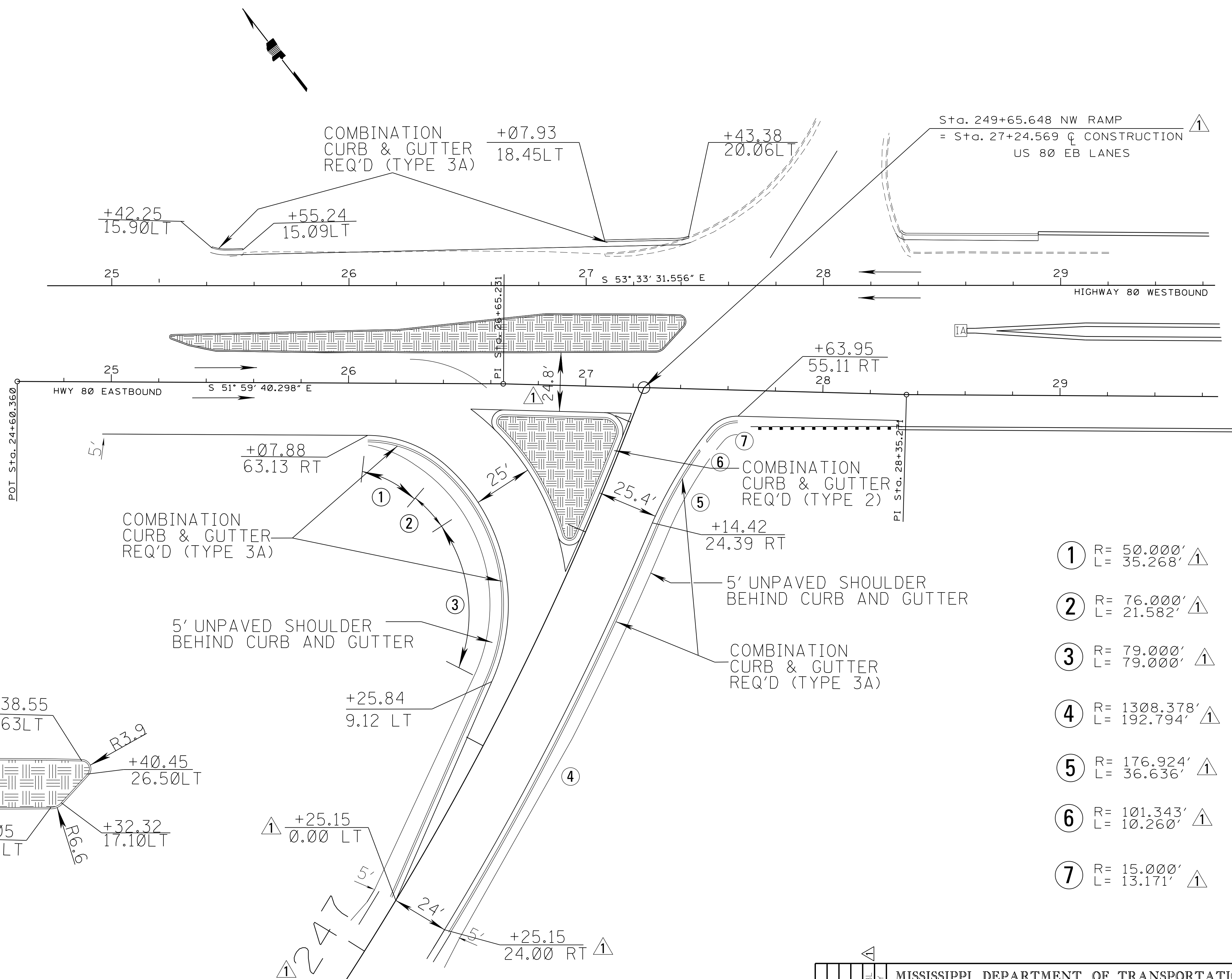
8/14/2014 3:03 PM INTERSECTIONDETAIL.L DGN PLAN DIVISION ROADWAY MISSISSIPPI DEPARTMENT OF TRANSPORTATION



NOTE: STA./OFFSET VALUES OBTAINED USING CHAIN NWRAMP.



NOTE: STA./OFFSET VALUES OBTAINED USING CHAIN WB80
INSET NOT TO SCALE



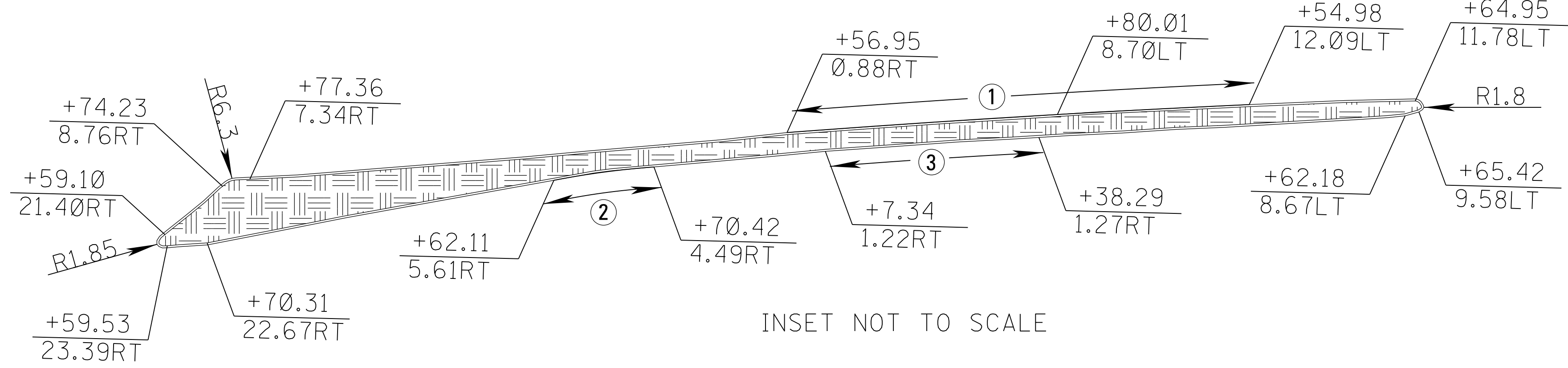
- ① R= 50.000' L= 35.268' Δ
- ② R= 76.000' L= 21.582' Δ
- ③ R= 79.000' L= 79.000' Δ
- ④ R= 1308.378' L= 192.794' Δ
- ⑤ R= 176.924' L= 36.636' Δ
- ⑥ R= 101.343' L= 10.260' Δ
- ⑦ R= 15.000' L= 13.171' Δ

SCALE: 1"=25'

MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
INTERSECTION DETAIL	
NW RAMP AND HWY 80	
PROJ. NO.: HSIP-0020-01(191)	
COUNTY: RANKIN	
FILENAME: INTERSECTIONDETAIL.DGN	
DESIGN TEAM	LEHMAN
CHECKED	DATE
WORKING NUMBER	
ID-2	
SHEET NUMBER	
95	

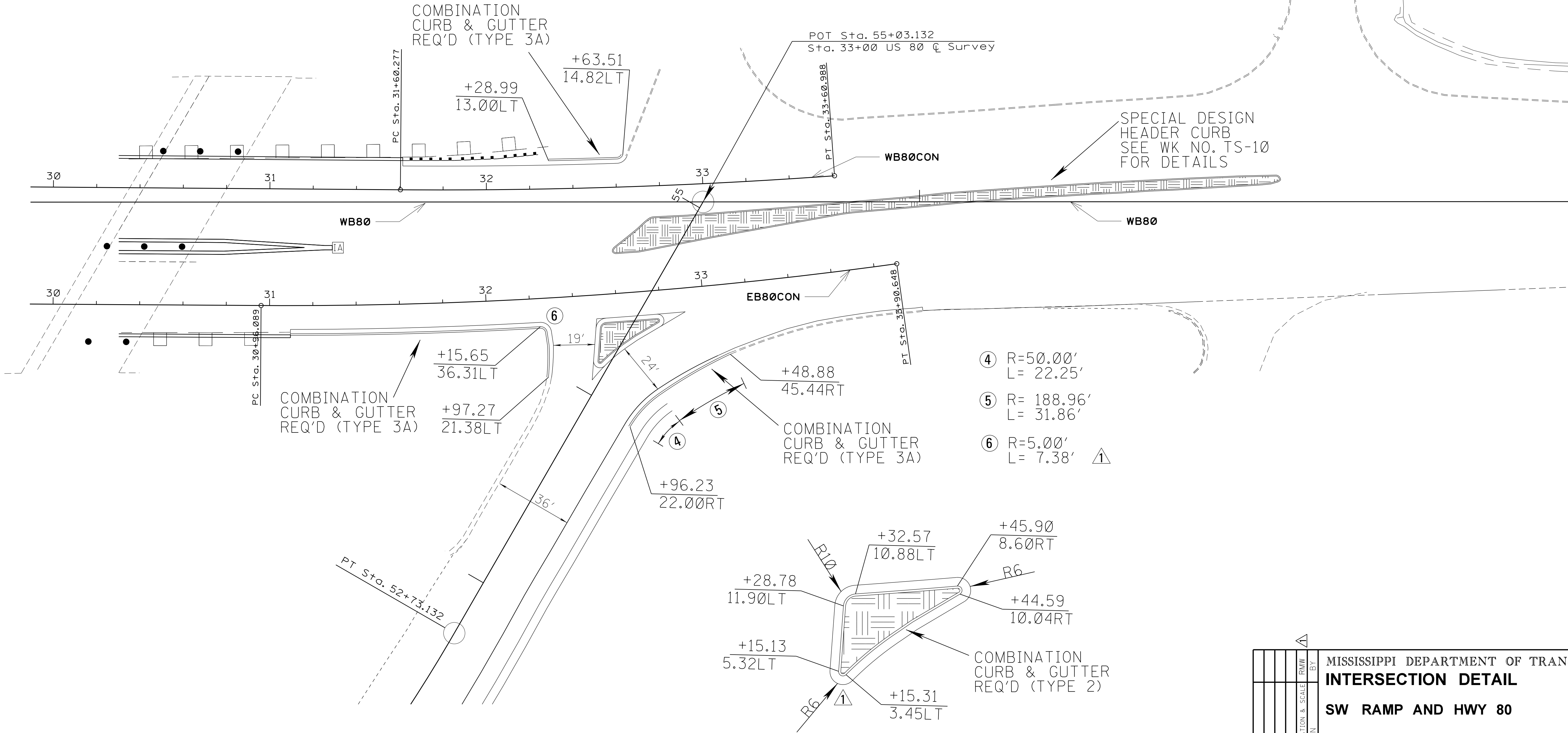
ADDENDUM

STATE	PROJECT NO.
MISS.	HSIP-0020-01(191)



NOTE:
THE INTENT IS TO REPLACE THE ISLAND IN THE EXISTING LOCATION.
CONTRACTOR SHALL VERIFY ISLAND STA/OFFSETS PRIOR TO REMOVAL.
STA./OFFSET VALUES OBTAINED USING CHAIN WB80

- ① R=4557.28'
L=135.43'
- ② R=244.35'
L=29.54'
- ③ R=3150.88'
L=62.58'



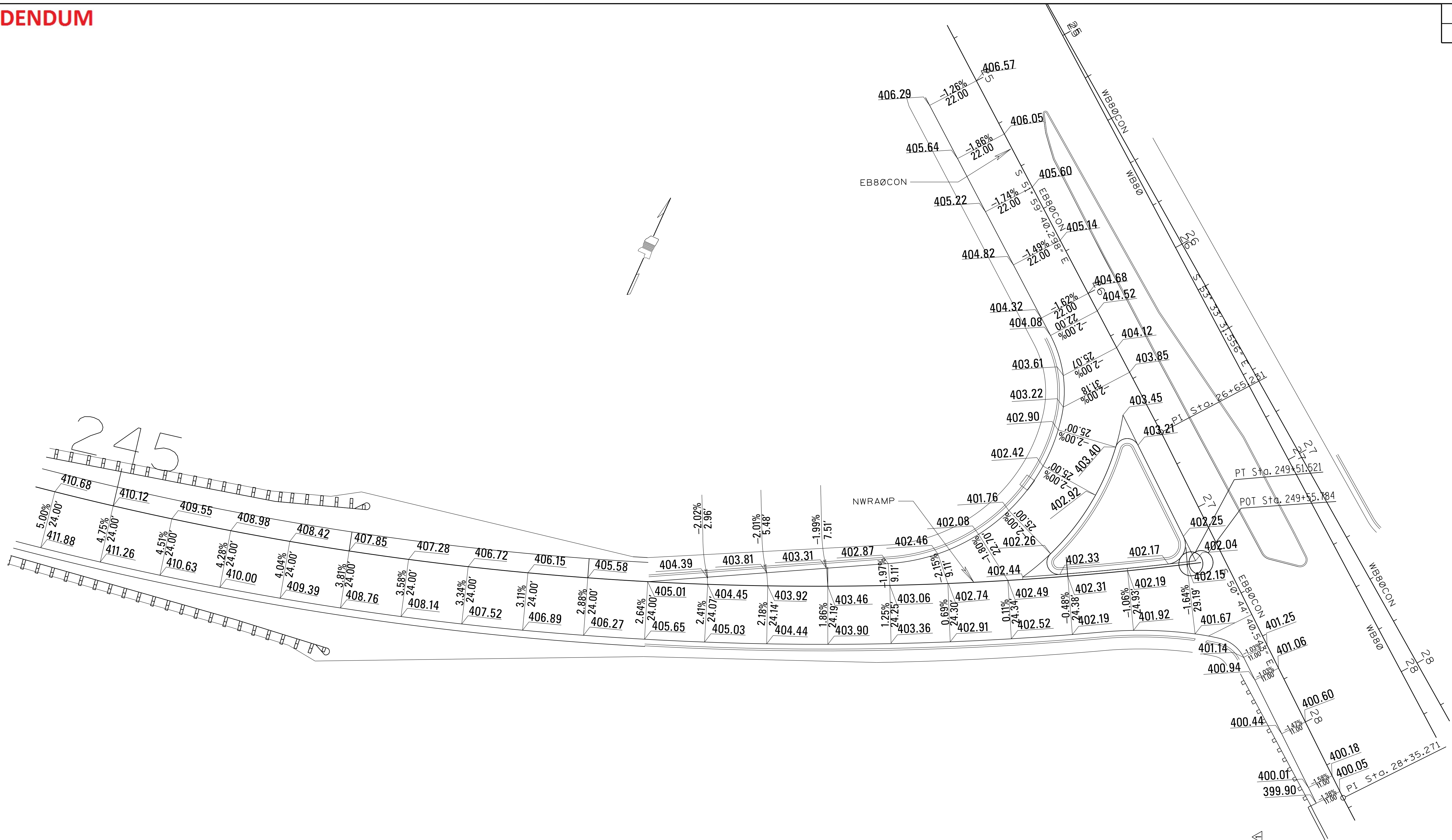
NOTE: STA./OFFSET VALUES OBTAINED USING CHAIN SWRAMPX
INSET NOT TO SCALE

SCALE 1"=25'

MISSISSIPPI DEPARTMENT OF TRANSPORTATION			
INTERSECTION DETAIL			
SW RAMP AND HWY 80			
PROJ. NO.: HSIP-0020-01(191)			
COUNTY: RANKIN			
FILENAME: INTERSECTIONDETAIL.DGN			
DESIGN TEAM: LEHMAN			
CHECKED: DATE			
WORKING NUMBER			
ID-3			
SHEET NUMBER			
96			

ADDENDUM

STATE	PROJECT NO.
MISS.	HSIP-0020-01(191)

[illegible]

REQUIREMENTS

	PAY ITEM NO.	ITEMS	RATES	DATES	RATES	DATES	
⑦	211-B001	TOPSOIL FOR SLOPE TREATMENT (LVM)	4" THICK	MARCH 1 TO SEPTEMBER 1	4" THICK	SEPTEMBER 1 TO MARCH 1	TOPSOIL REQUIRED ON SLOPES DETERMINED BY THE ENGINEER DURING CONSTRUCTION.
	907-225-A001	STANDARD GROUND PREPARATION	PER SQ.YD.	MARCH 1 TO SEPTEMBER 1	PER SQ.YD.	SEPTEMBER 1 TO MARCH 1	GROUND PREPARATION REQUIRED ON AREAS TO RECEIVE SOLID SODDING OR SEEDING, AS APPLICABLE.
	907-225-B001	AGRICULTURAL LIMESTONE	3 TONS/ACRE	MARCH 1 TO SEPTEMBER 1	3 TONS/ACRE	SEPTEMBER 1 TO MARCH 1	LIMESTONE SHALL BE MECHANICALLY SPREAD UNIFORMLY AND INCORPORATED INTO THE SOIL PRIOR TO PLANTING.
	907-225-A001	COMBINATION FERTILIZER (13-13-13)	1000 LBS./ACRE	MARCH 1 TO SEPTEMBER 1	1000 LBS./ACRE	SEPTEMBER 1 TO MARCH 1	FERTILIZER SHALL BE MECHANICALLY SPREAD UNIFORMLY AND INCORPORATED INTO THE SOIL PRIOR TO PLANTING.
①	213-C001	SUPERPHOSPHATE	0.5 TONS/ACRE (EST.)	MARCH 1 TO DECEMBER 1			SUPERPHOSPHATE (FOR BID ITEM PURPOSES).
②	907-225-A001	SEEDING (BERMUDAGRASS)	20 LBS./ACRE	MARCH 1 TO SEPTEMBER 1	20 LBS./ACRE	SEPTEMBER 1 TO MARCH 1	SEED REQUIRED ON DISTURBED AREAS. UNHULLED SEED MAY BE REQUIRED DURING THE DORMANT SEASON AS DIRECTED.
③	⑤907-225-A001	SEEDING (TALL FESCUE)			20 LBS./ACRE	AUGUST 1 TO APRIL 1	SEED REQUIRED ON DISTURBED AREAS.
③	⑤907-225-A001	SEEDING (CRIMSON CLOVER)			20 LBS./ACRE	AUGUST 1 TO APRIL 1	SEED REQUIRED ON DISTURBED AREAS.
⑥	215-A001	VEGETATIVE MATERIAL FOR MULCH	2 TONS ACRE (EST.)	MARCH 1 TO SEPTEMBER 1	2 TONS/ACRE (EST.)	SEPTEMBER 1 TO MARCH 1	THE ENGINEER WILL DESIGNATE THE RATES OF APPLICATION (SEE SUBSECTION 215.03.3).
	216-A001	SOLID SODDING	PER SQ.YD.	MARCH 1 TO SEPTEMBER 1	PER SQ. YD.	SEPTEMBER 1 TO MARCH 1	SOLID SOD REQUIRED ON AREAS SPECIFIED IN THE CONTRACT OR BY THE ENGINEER.
	219-A001	WATERING	20 GALS./S.Y. (EST.)	MARCH 1 TO SEPTEMBER 1	20 GALS. S.Y. (EST.)	SEPTEMBER 1 TO MARCH 1	TO BE USED AS DIRECTED IN THE PLANTING AND ESTABLISHING SOLID SOD.
④	220-A001	INSECT PEST CONTROL	PER ACRE		PER ACRE		SEE SECTION 220.
		TEMPORARY EROSION CONTROL ITEMS					
	907-226-A001	LIGHT GROUND PREPARATION	PER SQ.YD.		PER SQ.YD.		APPROXIMATELY HALF SQ. YD. STANDARD GROUND PREPARATION
	907-226-A001	COMBINATION FERTILIZER (13-13-13)	0.25 TONS/ACRE		0.25 TONS/ACRE		QUANTITY BASED ON LIGHT GROUND PREPARATION
	907-226-A001	SEEDING (BROWN TOP MILLET)	20 LBS./ACRE	APRIL 1 TO AUGUST 31	_____	_____	QUANTITY BASED ON LIGHT GROUND PREPARATION
	907-226-A001	SEEDING (RYE GRASS)	_____	_____	25 LBS./ACRE	SEPTEMBER 1 TO MARCH 31	QUANTITY BASED ON LIGHT GROUND PREPARATION
	907-226-A001	SEEDING (OATS)	_____	_____	90 LBS./ACRE	SEPTEMBER 1 TO DECEMBER 15	QUANTITY BASED ON LIGHT GROUND PREPARATION
	907-226-A001	VEGETATIVE MATERIAL FOR MULCH	2 TON /ACRE (EST.)		2 TON /ACRE (EST.)		QUANTITY BASED ON LIGHT GROUND PREPARATION

⑦ PROPOSAL QUANTITIES ESTIMATED ON THE BASIS THAT 75% OF THE ACREAGE SEEDED MAY REQUIRE TOPSOIL.

[illegible]

ADDENDUM

STATE	PROJECT NO.
MISS.	HSIP-0020-01(19)

HOLE OPENING									
ROUND RCP	OPENING				ARCH RCP		OPENING		
	INCHES		CONCRETE* DEDUCTION PER OPENING (C.Y.)		SIZE	T	INCHES		CONCRETE* DEDUCTION PER OPENING (C.Y.)
	SIZE	T	HO	OP			HO	OP	
-	-	-	-	-	-	-	-	-	-
12	2	20	4	0.017	-	-	-	-	-
15	2.25	24	4.5	0.032	18x11	2.25	25.5x18.5	1.5	0.015
18	2.5	26	4	0.045	22x13	2.5	30x21	1.5	0.045
21	2.75	28	3.5	0.060	-	-	-	-	-
24	3	32	4	0.076	29x18	3	38x27	1.5	0.073
27	3.25	40	6.5	0.095	-	-	-	-	-
30	3.5	40	5	0.116	36x23	3.5	46x33	1.5	0.108

* BASED ON 5" WALL THICKNESS; FOR 3 1/2" WALL, MULTIPLY BY 0.694

MINIMUM PIPE DEPTH TOP OF COVER TO PIPE INVERT			
ROUND RCP SIZE	DEPTH INCHES	ARCH RCP SIZE	DEPTH INCHES
-	-	-	-
12	27	-	-
15	30.5	18x11	23.5
18	33	22x13	25.5
21	35.5	-	-
24	40	29x18	30.5
27	44.5	-	-
30	46	36x23	35.5

MAXIMUM PIPE SIZE					
INLET OR JUNCTION BOX	ROUND RCP			ARCH RCP	
	IW	SIDE	IL SIDE	IW	IL SIDE
2X2	12	18	NONE	NONE	18x11
2X3	12	24	NONE	NONE	22x13
3X5	24	30	22x13	22x13	36x23

CONCRETE QUANTITIES			
INLET OR JUNCTION BOX	BOTTOM C.Y.	RISER C.Y./FT	COVER C.Y.
2X2	0.074	0.099	0.123
2X3	0.111	0.181	0.201
3X5	0.279	0.275	0.266

NOTE: CONCRETE CUBIC YARDS PER INLET/JUNCTION BOX = BOTTOM + (TOTAL RISER HEIGHT (FT) x C.Y./FT) + (COVER - GRATE OPENING) - ANY HOLE OPENINGS

GENERAL DATA										
INLET OR JUNCTION BOX SIZE	WALL THICKNESS	INSIDE DIMENSION		OUTSIDE DIMENSION		BASE HEIGHT	RISER HEIGHT	WEIGHTS		
		WT	IW	IL	OW	OL	B	R	BOTTOM	BASE/RISER
	FEET	INCHES	INCHES		INCHES		3" INCREMENTS		LB	LB/FT
2 X 2	3 1/2	24	24	31	31	24-54	18-48	300	401	500
2 X 3	5	24	36	34	46	24-54	18-48	450	735	815
3 X 5	5	36	60	46	70	24-54	18-48	1125	1114	1077

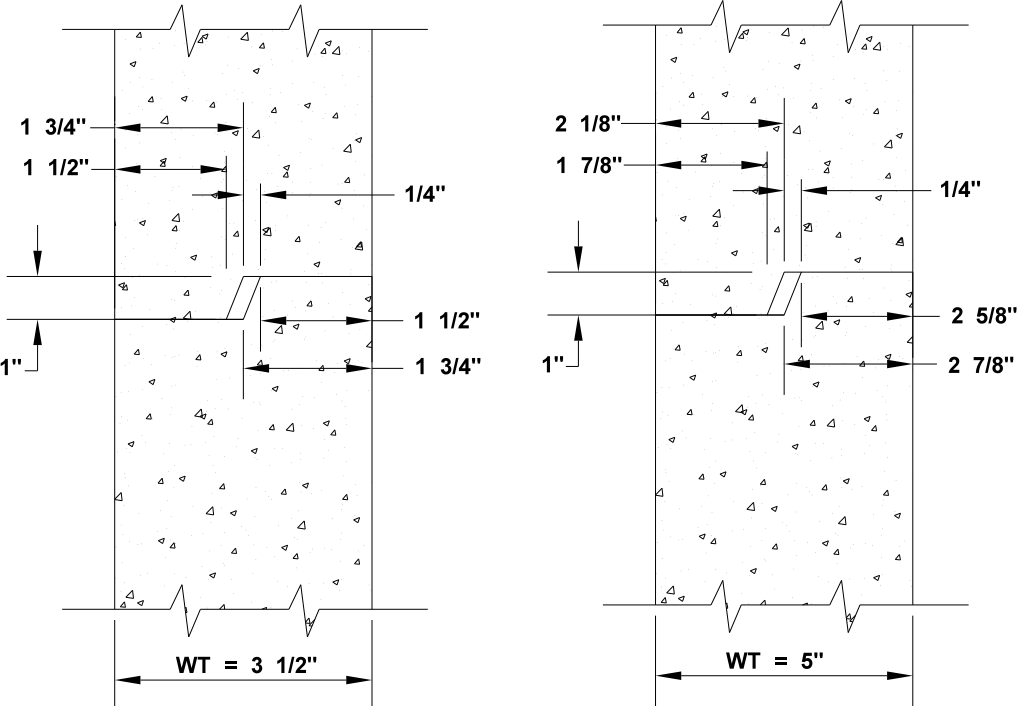
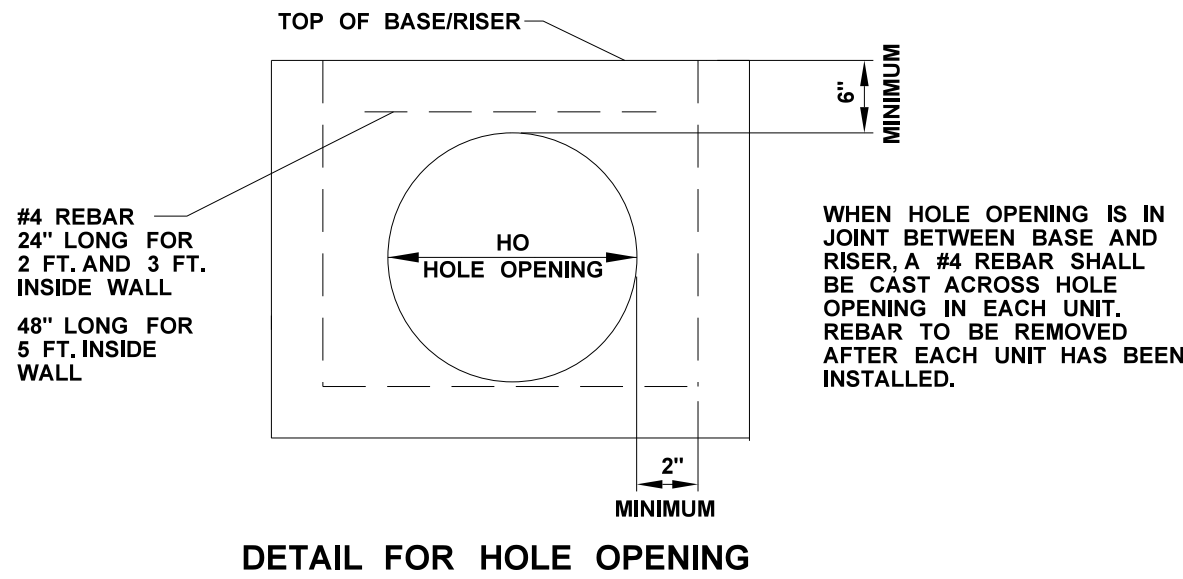
2' x 2' WALL REINFORCEMENT (SQ. IN. PER LIN. FT.)												
DEPTH OF INSTALLATION	BASE		TOP RISER		INTERIOR RISER #1		INTERIOR RISER #2		INTERIOR RISER #3		INTERIOR RISER #4	
	AREA	LB/FT	AREA	LB/FT	AREA	LB/FT	AREA	LB/FT	AREA	LB/FT	AREA	LB/FT
FT	0.07	3.942	-	-	-	-	-	-	-	-	-	-
0-4	0.13	5.862	0.07	3.942	-	-	-	-	-	-	-	-
0-8	0.20	7.786	0.07	3.942	0.13	5.862	-	-	-	-	-	-
0-12	0.20	7.786	0.07	3.942	0.13	5.862	-	-	-	-	-	-

2' x 3' WALL REINFORCEMENT (SQ. IN. PER LIN. FT.)												
DEPTH OF INSTALLATION	BASE		TOP RISER		INTERIOR RISER #1		INTERIOR RISER #2		INTERIOR RISER #3		INTERIOR RISER #4	
FT	AREA	LB/FT	AREA	LB/FT	AREA	LB/FT	AREA	LB/FT	AREA	LB/FT	AREA	LB/FT
0-4	0.10	5.840	-	-	-	-	-	-	-	-	-	-
0-8	0.20	9.928	0.10	5.840	-	-	-	-	-	-	-	-
0-12	0.25	5.545	0.10	5.840	0.20	9.928	-	-	-	-	-	-

3' x 5' WALL REINFORCEMENT (SQ. IN. PER LIN. FT.)												
DEPTH OF INSTALLATION	BASE		TOP RISER		INTERIOR RISER #1		INTERIOR RISER #2		INTERIOR RISER #3		INTERIOR RISER #4	
FT	AREA	LB/FT	AREA	LB/FT	AREA	LB/FT	AREA	LB/FT	AREA	LB/FT	AREA	LB/FT
0-8	0.30	21.039	0.24	17.3264	-	-	-	-	-	-	-	-
0-12	0.74	53.570	0.24	17.3264	0.60	43.316	-	-	-	-	-	-
0-16	0.88	61.526	0.24	17.3264	0.60	43.316	0.74	53.570	-	-	-	-
0-20	1.14	78.146	0.24	17.3264	0.60	43.316	0.74	53.570	1.02	70.013	-	-
0-24	1.44	98.654	0.24	17.3264	0.60	43.316	0.74	53.570	1.02	70.013	1.20	82.035

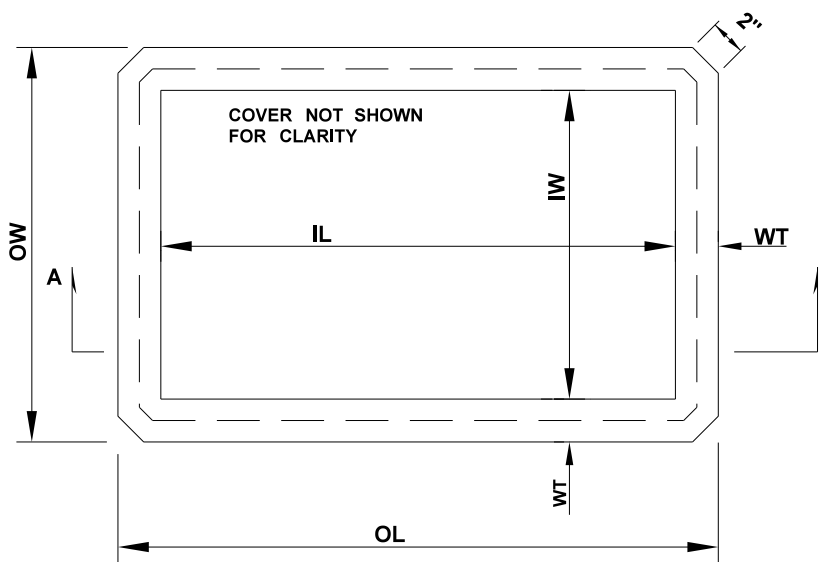
COVER/BOTTOM REINFORCEMENT				
INLET OR JUNCTION BOX	COVER	LBS/STEEL	BOTTOM	LBS/STEEL
2X2	#4 @ 9" EW	12.247	WWF-W6.0 X W6.0 - 3 X 3	10.559
2X3	#4 @ 9" EW	17.869	WWF-W6.0 X W6.0 - 3 X 3	16.602
3X5	#4 @ 9" EW	36.741	WWF-W6.0 X W6.0 - 3 X 3	37.208

NOTE: REINFORCEMENT STEEL (LBS PER INLET/JUNCTION BOX) = BOTTOM + TOTAL FOR EACH RISER (TOP PLUS ANY INTERIOR RISERS) (BASE HEIGHT + TOTAL HEIGHT OF RISER) + COVER; HOLE AND GRATE OPENINGS NOT DEDUCTED

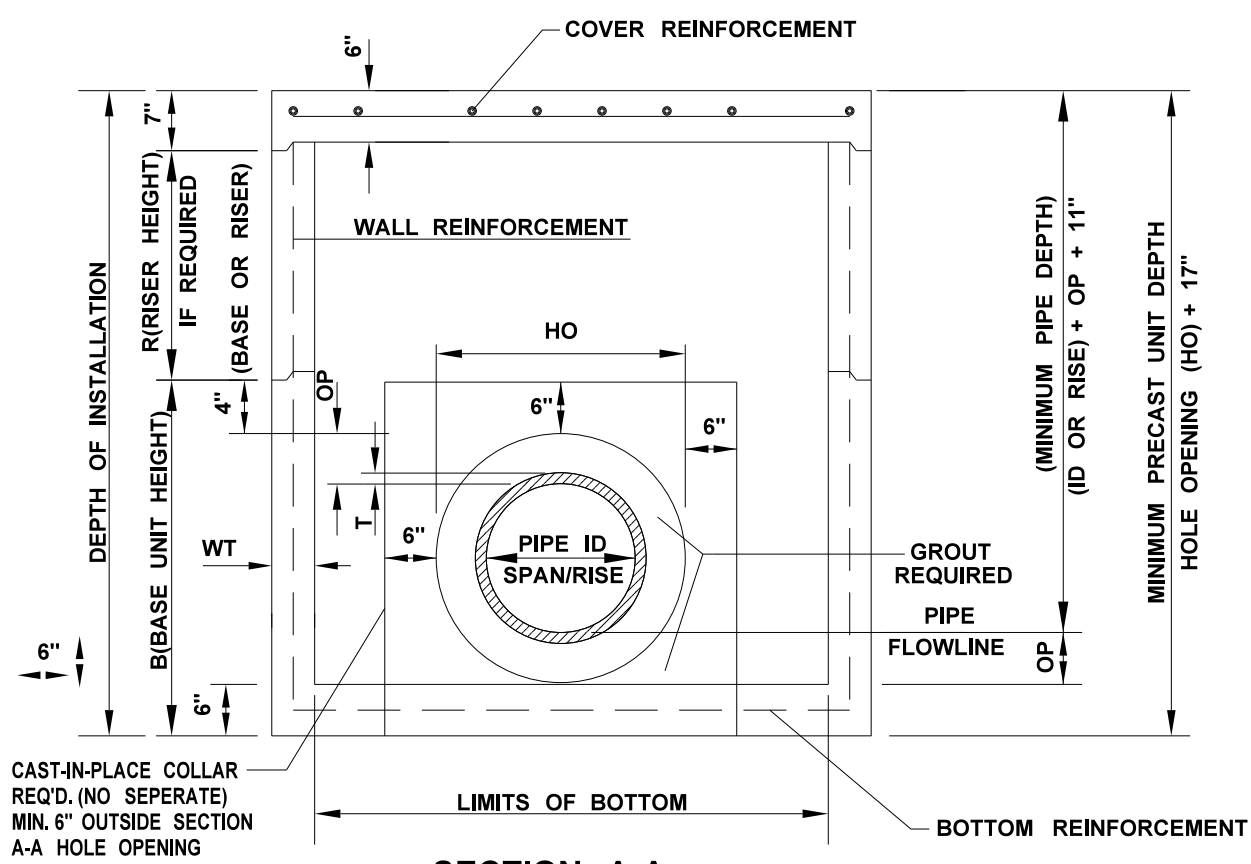


2 X 2 JOINT DETAIL

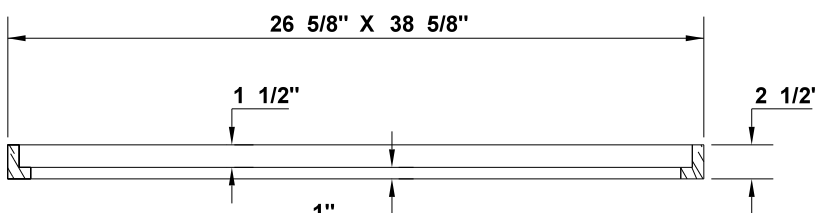
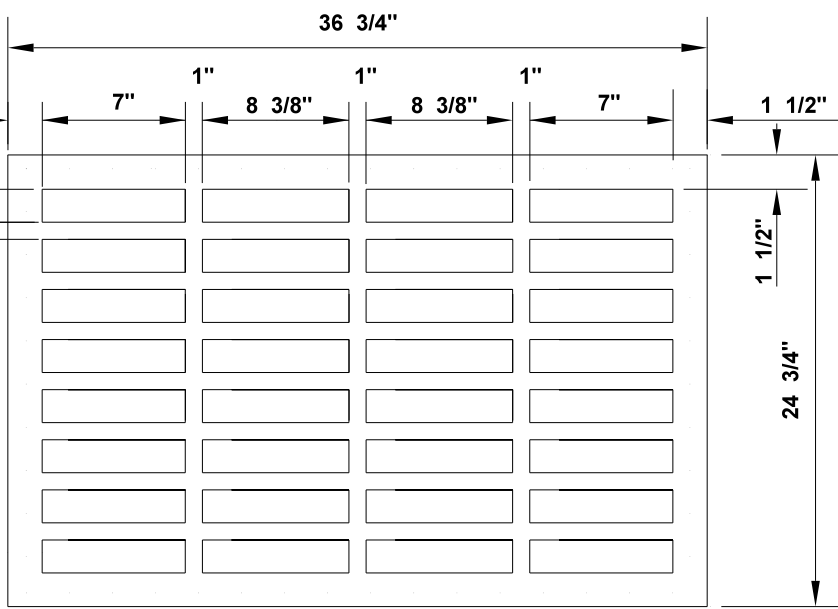
2 X 3 & 3 X 5 JOINT DETAIL



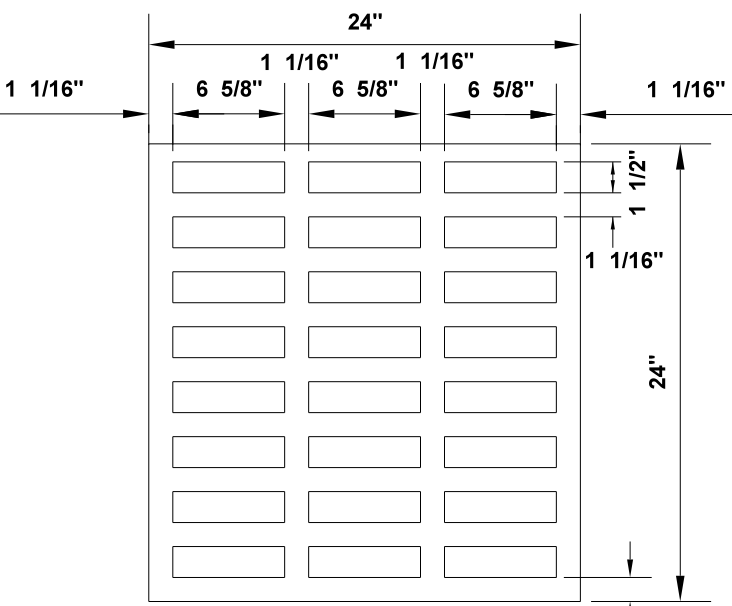
PLAN FOR BASE/RISER INLET/JUNCTION BOX



SECTION A-A



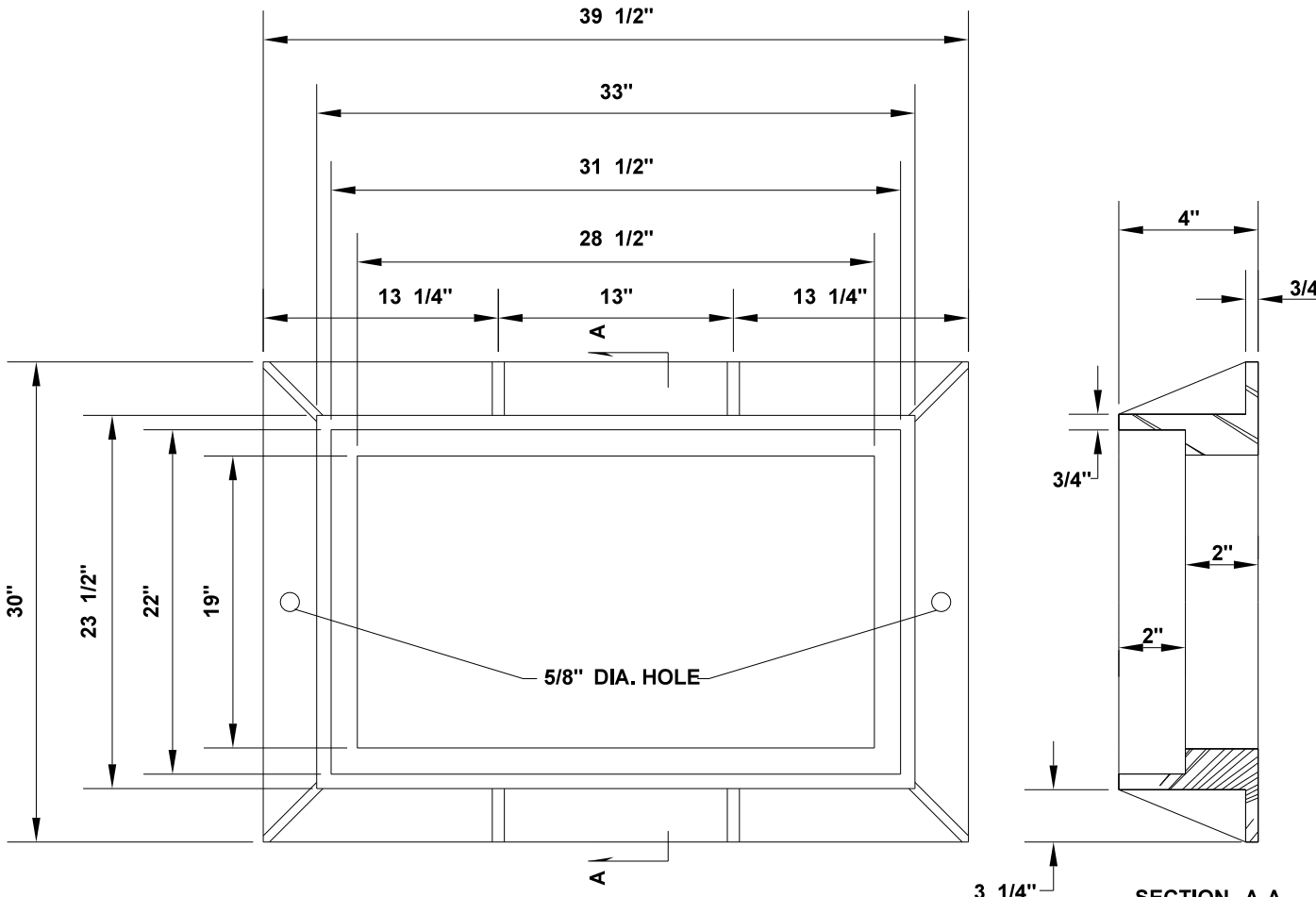
2'X3' FRAME AND GRATE
VULCAN V-4873
HEAVY DUTY LOAD RATING
WEIGHT: 340 LBS
OPEN AREA: 453 SQ. IN.
CONCRETE DEDUCT FOR
GRATE OPENING: 1.32 C.Y.



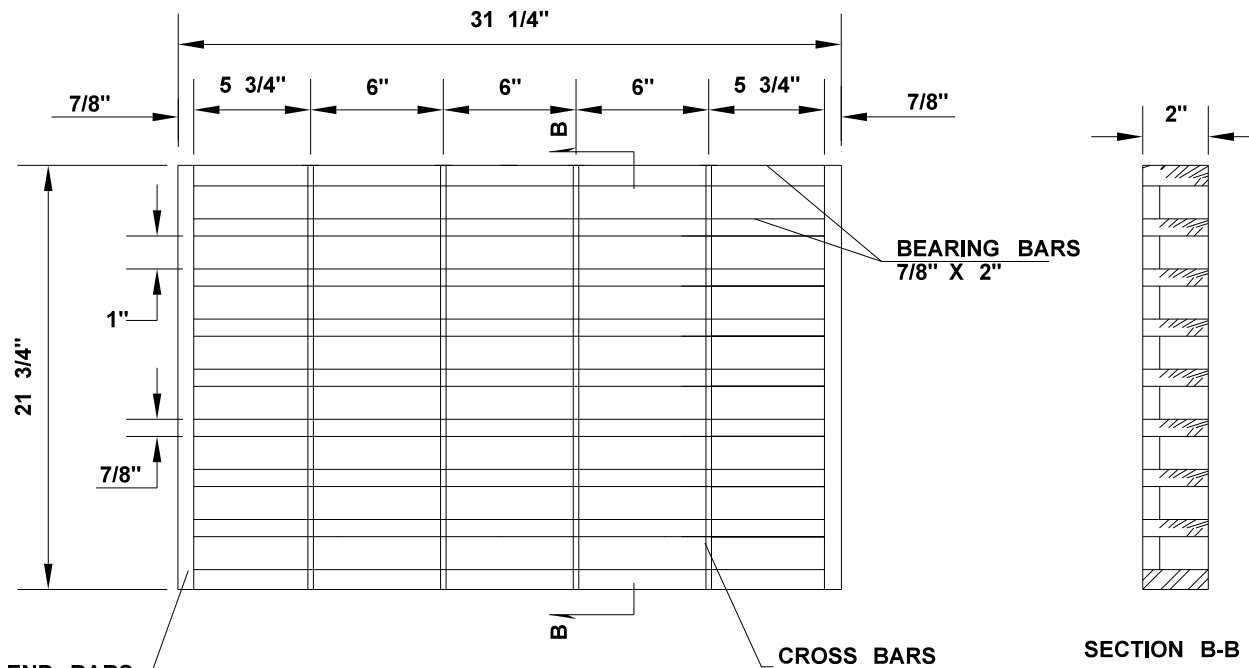
2'X2' FRAME AND GRATE
VULCAN V-5724-3
HEAVY DUTY LOAD RATING
WEIGHT: 212 LBS
OPEN AREA: 288 SQ. IN.

CONCRETE DEDUCT FOR
GRATE OPENING: 0.088 C.Y.

GRATE DETAILS

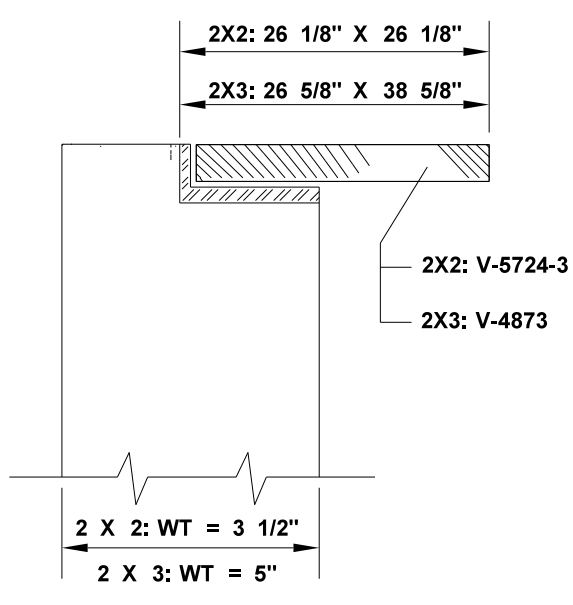


PLAN VIEW - FRAME CAST IRON



PLAN VIEW - GRATE ASTM A588 STEEL

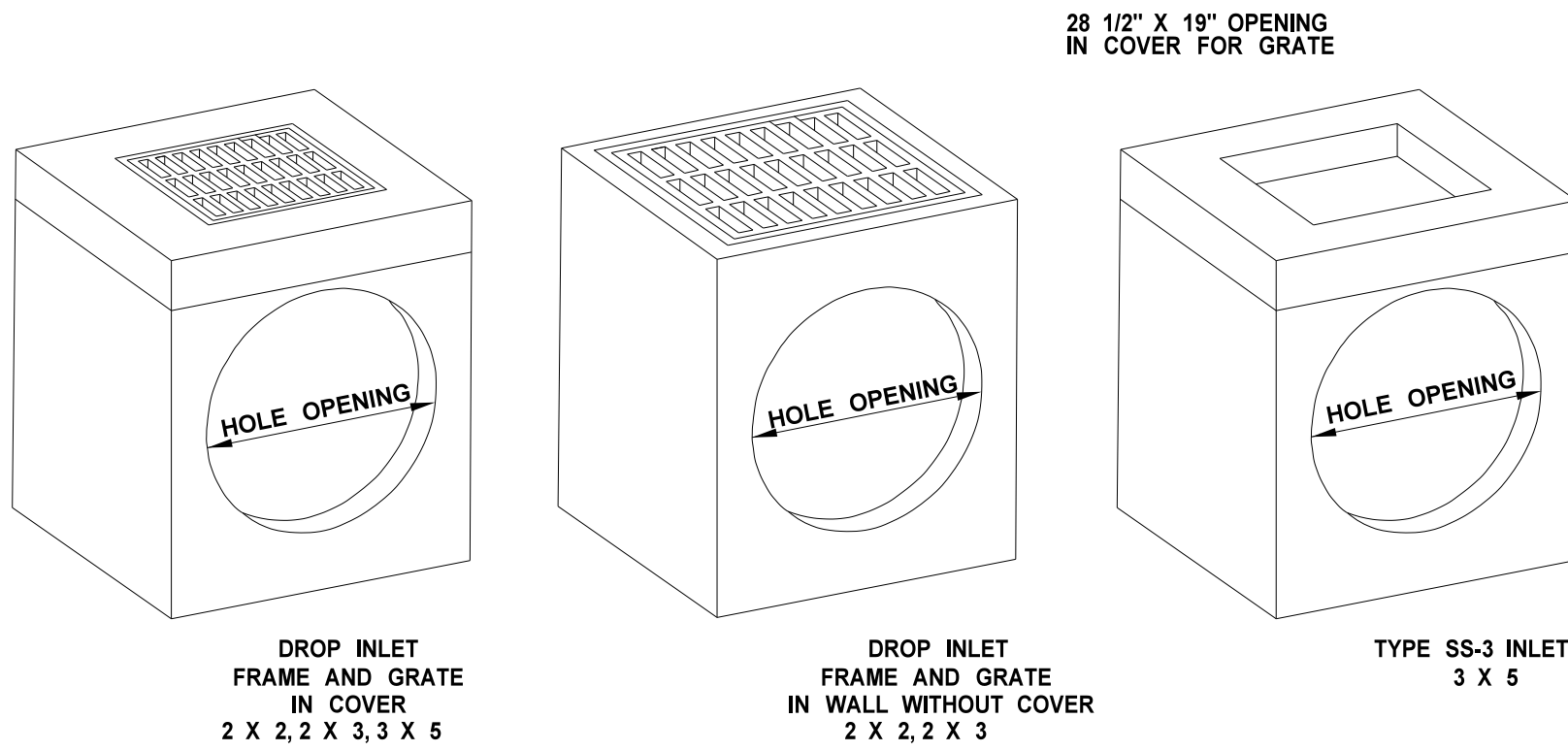
MDOT SS-3 GRATE
HEAVY DUTY LOAD RATING
FRAME WEIGHT: 244 LBS
GRATE WEIGHT: 200 LBS
OPENING: 324.5 SQ. IN.
CONCRETE DEDUCT FOR
GRATE OPENING: 0.070 C.Y.



2 X 2 & 2 X 3 DROP INLET WALL DETAIL WHEN FRAME AND GRATE IS USED WITHOUT COVER

GENERAL NOTES:

- CONCRETE SHALL HAVE COMPRESSIVE STRENGTH OF 4000 PSI MINIMUM AT 28 DAYS.
- REINFORCING FOR BOTTOM AND WALLS SHALL BE WELDED WIRE FABRIC, ASTM A-185, AND OF THE AREA AS SHOWN IN TABLE.
- REINFORCING FOR COVER SHALL BE ASTM A615/A AND OF THE SIZE AS SHOWN IN TABLE AND DRAWINGS.
- JOINT TO BE SEALED WITH FLEXIBLE PLASTIC GASKET FOR JOINT CONDUIT, AASHTO SPECIFICATION M-198 OR MDOT SPECIFICATION.
- 2 1/2" LIFTING HOLES TO BE LOCATED ON EACH SIDE OF BOX SECTIONS FOR HANDLING.
- GROUT FOR JOINING PIPE TO PRECAST UNITS WILL BE A COMMERCIAL MASONRY GROUT MEETING MDOT SPECIFICATIONS
- WHEN INTERIOR RISER UNITS ARE REQUIRED, UNITS SHALL BE MARKED TO IDENTIFY EACH UNIT.
- CONCRETE & REINFORCING STEEL FOR PRE-CAST INLETS AND JUNCTION BOXES SHALL BE PAID FOR AS THE CALCULATED QUANTITY SHOWN ON THE RE-CAP SHEET FOR CAST-IN-PLACE INLETS & JUNCTION BOXES



DROP INLET FRAME AND GRATE IN COVER
2 X 2, 2 X 3, 3 X 5

DROP INLET FRAME AND GRATE IN WALL WITHOUT COVER
2 X 2, 2 X 3

TYPE SS-3 INLET
3 X 5

				BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION			
				REVISION	PRECAST UNITS JUNCTION BOX, TYPE SS-3, AND DROP PRECAST INLET (30" CONCRETE ROUND PIPE AND UNDER) (36" x 23" CONCRETE ARCH PIPE AND UNDER)			
				DATE	FILENAME: dgns\precast\jbl.dgn			
				DESIGN TEAM	LEHMAN			
				CHECKED				
				DATE	01/04/05			
					WORKING NUMBER PCU-1			
					SHEET NUMBER 142			

ADDENDUM

[illegible]

3' x 5' WALL REINFORCEMENT (SQ. IN. PER LIN. FT.)												
DEPTH OF INSTALLATION	BASE		TOP RISER		INTERIOR RISER #1		INTERIOR RISER #2		INTERIOR RISER #3		INTERIOR RISER #4	
	AREA	LB/FT	AREA	LB/FT	AREA	LB/FT	AREA	LB/FT	AREA	LB/FT	AREA	LB/FT
0-8	0.30	36.969	0.24	29.575	-	-	-	-	-	-	-	-
0-12	0.60	78.867	0.24	29.575	0.60	78.867	-	-	-	-	-	-
0-16	0.88	110.005	0.24	29.575	0.60	78.867	0.74	95.338	-	-	-	-
0-20	1.18	139.340	0.24	29.575	0.60	78.867	0.74	95.338	1.06	124.672	-	-
0-24	1.44	176.008	0.24	29.575	0.60	78.867	0.74	95.338	1.06	124.672	1.20	146.673

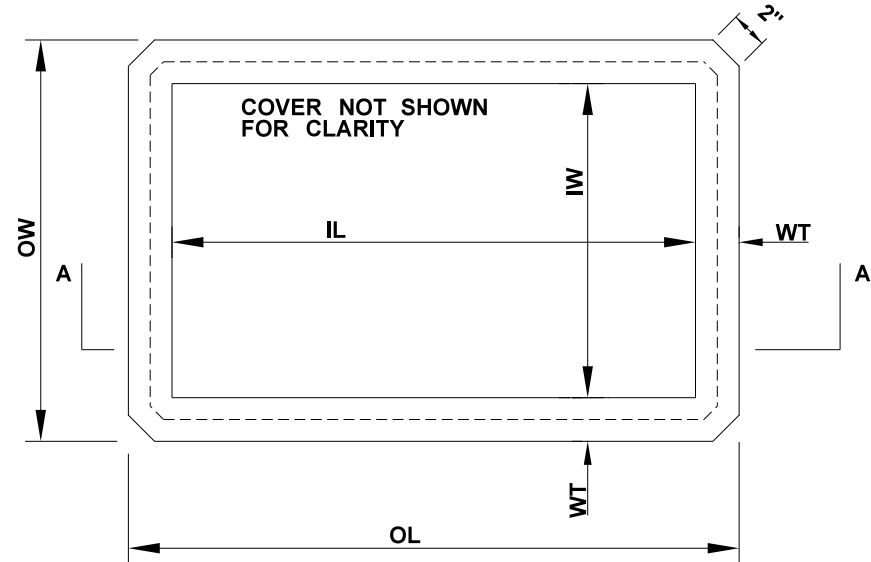
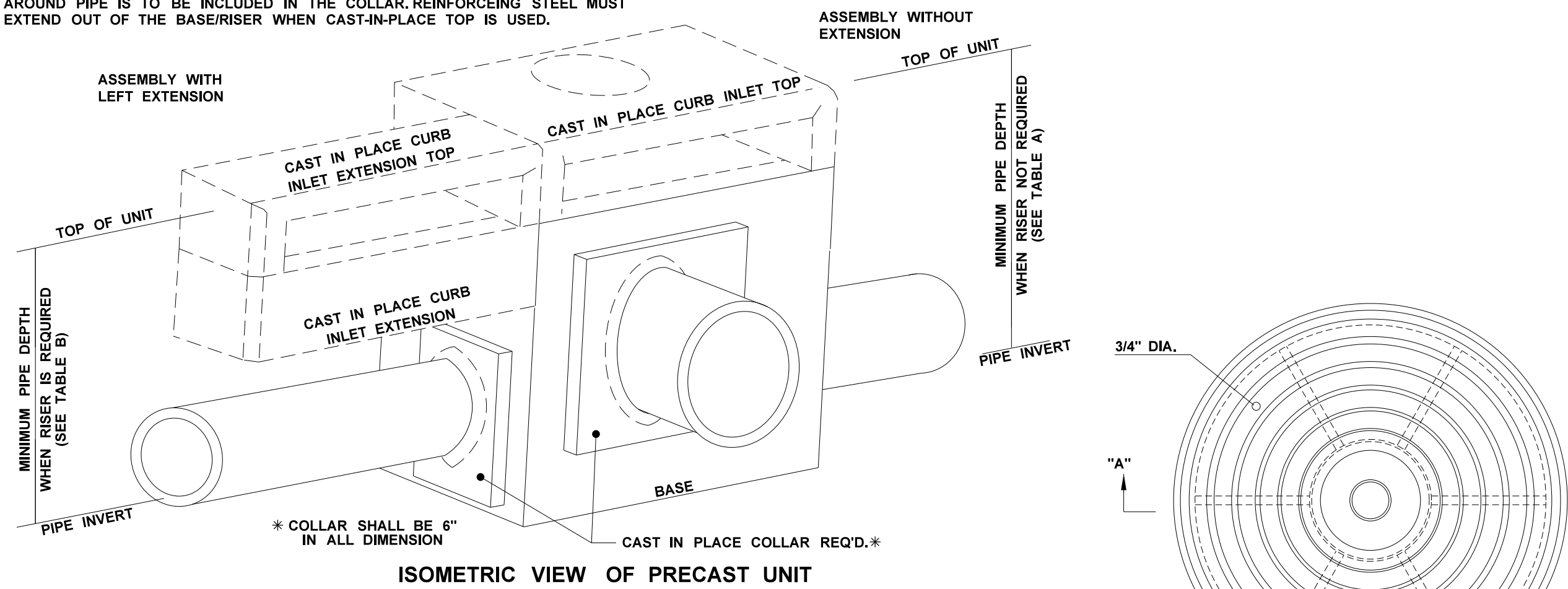
CONCRETE QUANTITIES				
SS-2 INLET SIZE	BOTTOM C.Y.	RISER C.Y./FT	TOP C.Y.	EXTENSION C.Y.
3X5	0.279	0.275	0.464	0.724

BOTTOM/TOP/EXTENSION REINFORCEMENT				
SS-2 INLET SIZE	BOTTOM REINFORCEMENT	BOTTOM LB/STEEL	TOP LB/STEEL	EXTENSION LB/STEEL
3X5	#4 @ 9" EW	38.550	116.496	38.305

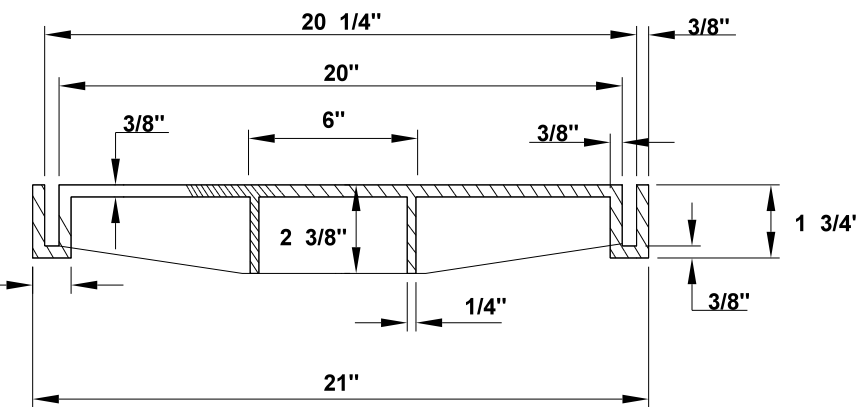
NOTES: CONCRETE CUBIC YARDS PER INLET = BOTTOM + (TOTAL RISER HEIGHT (FT) x C.Y./FT) + TOP EXTENSION INCLUDES CURB INLET UNIT + TOP + EXTENSIONS-ANY HOLE OPENINGS EXTENSION BLOCKOUT OPENINGS

NOTE: *EXTENSION INCLUDES CURB INLET UNIT PLUS TOP

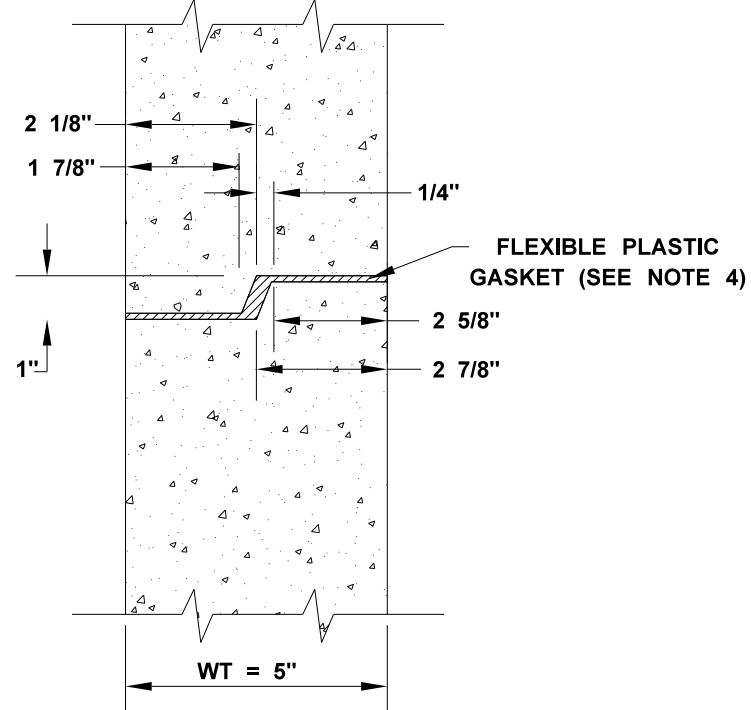
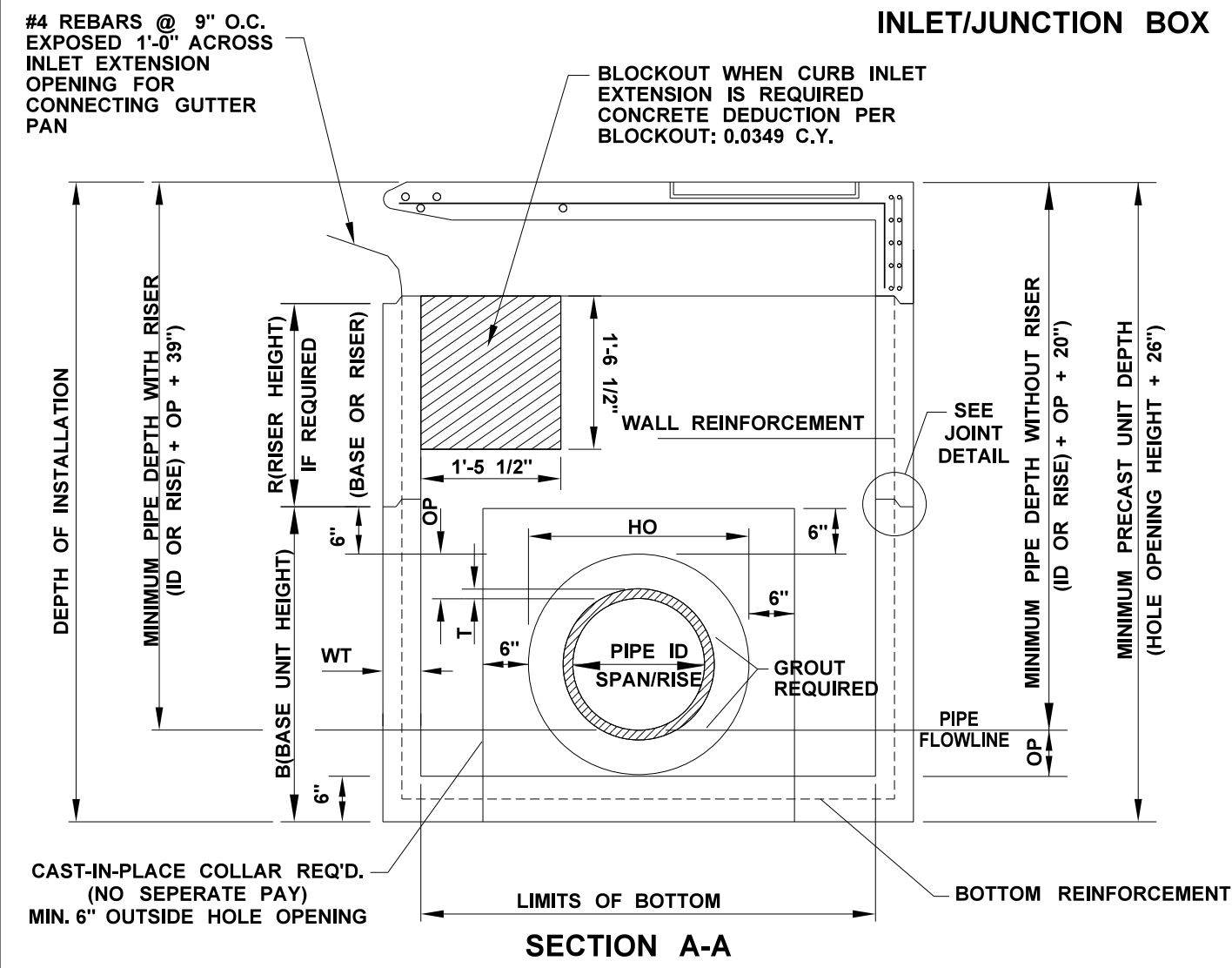
CAST-IN-PLACE COLLAR REQUIRED AT ALL PIPE CONNECTIONS. FILLING THE AREA AROUND PIPE IS TO BE INCLUDED IN THE COLLAR. REINFORCING STEEL MUST EXTEND OUT OF THE BASE/RISER WHEN CAST-IN-PLACE TOP IS USED.



PLAN FOR BASE/RISER INLET/JUNCTION BOX



MDOT SS-2 RING AND COVER
79 LBS



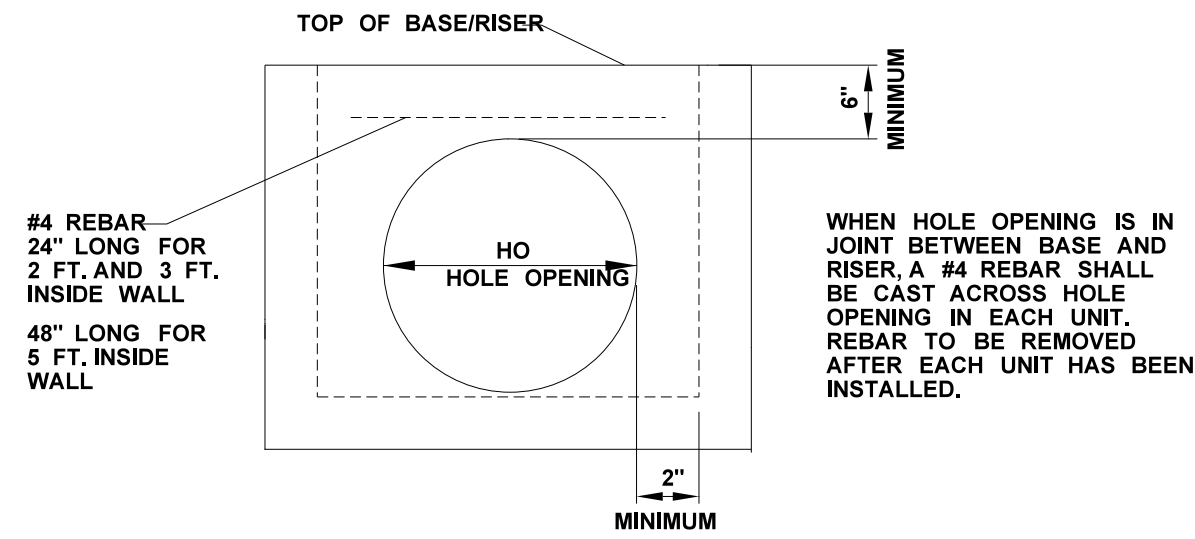
JOINT DETAIL

ROUND RCP SIZE	DEPTH INCHES	ARCH RCP SIZE	DEPTH INCHES
-	-	-	-
-	-	-	-
12	36	-	-
15	39.5	18x11	32.5
18	42	22x13	34.5
21	44.5	-	-
24	49	29x18	39.5
27	53.5	-	-
30	55	36x23	44.5

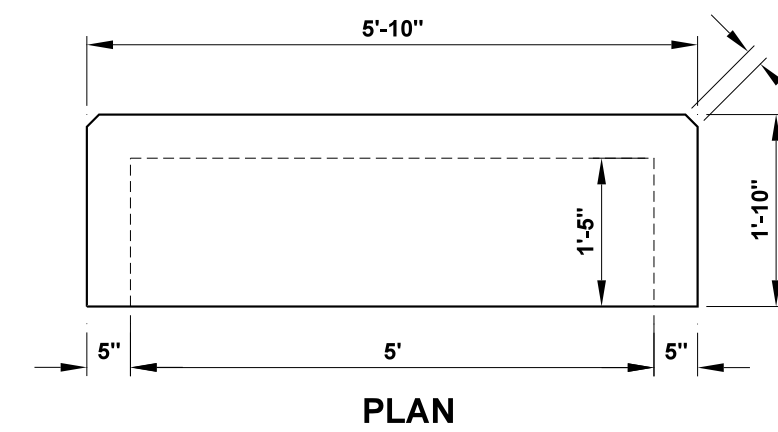
MINIMUM PIPE DEPTH WITH EXTENSION TOP OF CURB UNIT TO PIPE INVERT TABLE B			
ROUND RCP SIZE	DEPTH INCHES	ARCH RCP SIZE	DEPTH INCHES
-	-	-	-
-	-	-	-
12	55	-	-
15	58	18x11	55
18	61	22x13	58
21	64	-	-
24	67	-	-
27	72	-	-
30	-	-	-

NOTE: BLANK SPACES IN TABLES INDICATE PIPE WILL NOT FIT INTO SIDE OF BOX OR PIPE SIZE IS NOT AVAILABLE.

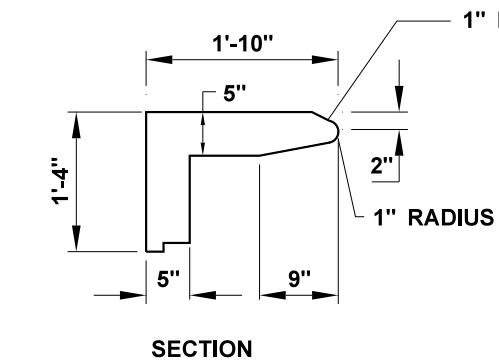
HOLE OPENING										
ROUND RCP		OPENING			ARCH RCP		OPENING			
		INCHES		CONCRETE DEDUCTION PER OPENING (C.Y.)			INCHES		CONCRETE DEDUCTION PER OPENING (C.Y.)	
SIZE	T	HO	OP			SIZE	T	HO		OP
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
12	2	20	4	0.017						
15	2.25	24	4.5	0.032	18x11	2.25	25.5x18.5	1.5	0.015	
18	2.5	26	4	0.045	22x13	2.5	30x21	1.5	0.045	
21	2.75	28	3.5	0.060	-	-	-	-	-	
24	3	32	4	0.076	29x18	3	38x27	1.5	0.073	
27	3.25	40	6.5	0.095	-	-	-	-	-	
30	3.5	40	5	0.116	36x23	3.5	46x33	1.5	0.108	



DETAIL FOR HOLE OPENING

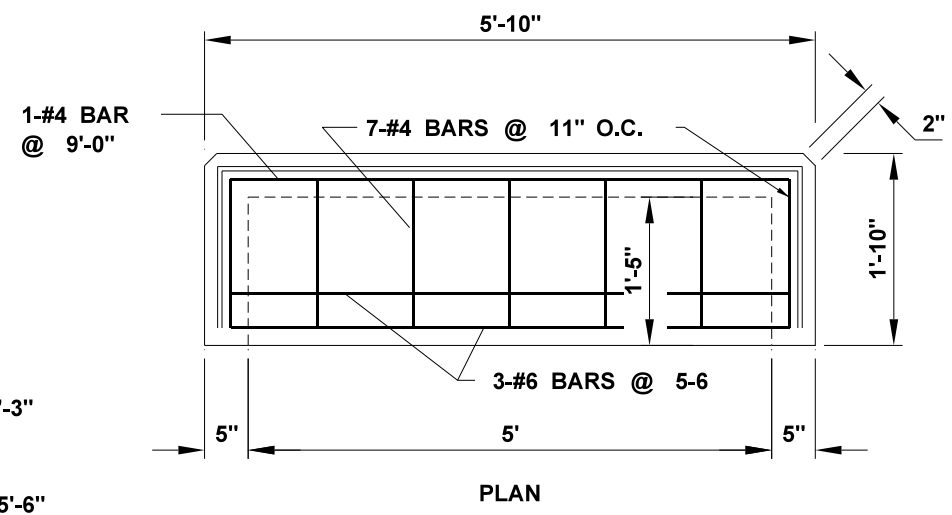


PLAN

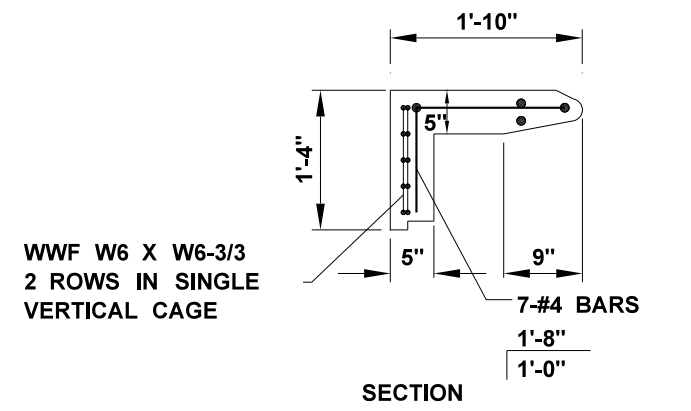


SECTION

**CURB INLET EXTENSION TOP
LEFT/RIGHT**



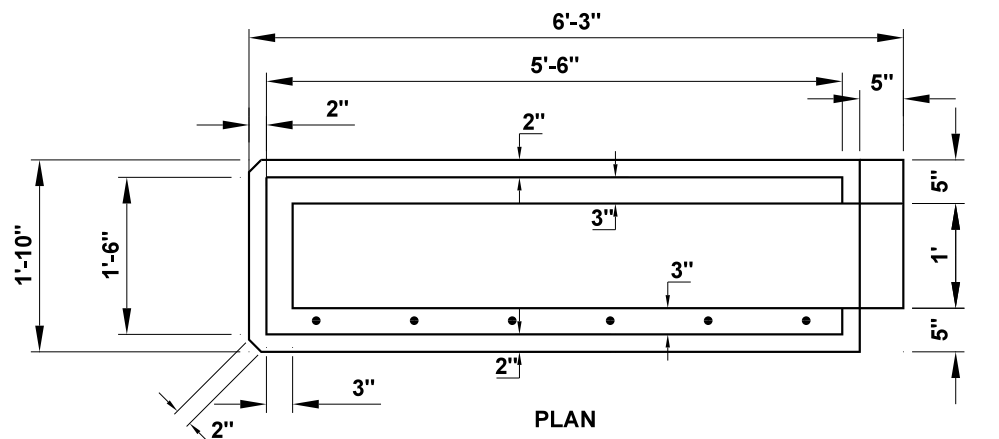
PLAN



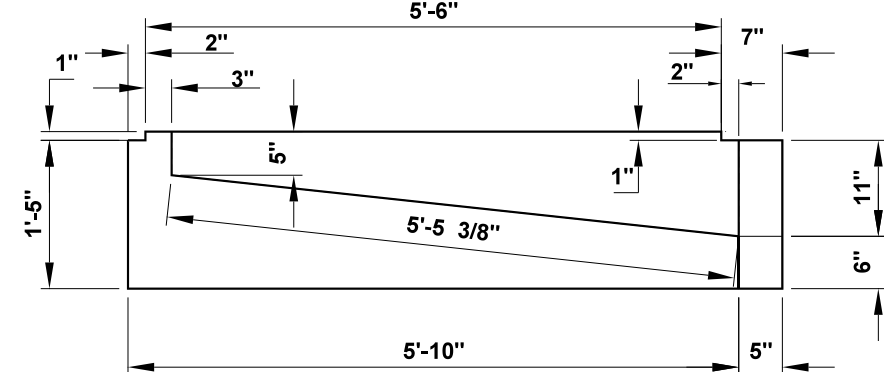
SECTION

REINFORCEMENT
CURB INLET EXTENSION TOP
LEFT/RIGHT

STATE	PROJECT NO.
MISS.	

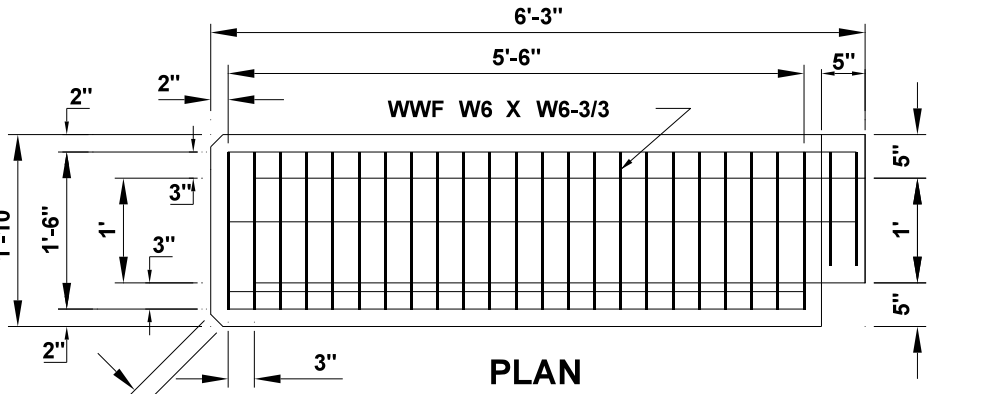


PLAN

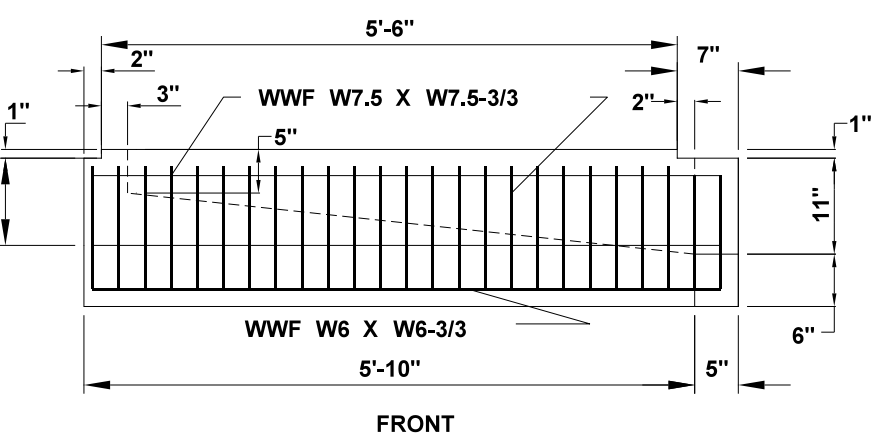


5'-10''

**CURB INLET EXTENSION
LEFT/RIGHT**



PLAN



FRONT

REINFORCEMENT
CURB INLET EXTENSION
LEFT/RIGHT

GENERAL NOTES:

1. CONCRETE SHALL HAVE COMPRESSIVE STRENGTH OF 4000 PSI MINIMUM AT 28 DAYS.
2. REINFORCING FOR BOTTOM AND WALLS MAY BE WELDED WIRE FABRIC, ASTM A-185, AND OF THE AREA AS SHOWN IN TABLE.
3. REINFORCING FOR COVER SHALL BE ASTM A615/A AND OF THE SIZE AS SHOWN IN TABLE AND DRAWINGS
4. JOINT TO BE SEALED WITH FLEXIBLE PLASTIC GASKET FOR JOINT CONDUIT, AASHTO SPECIFICATION M-198 OR MDOT SPECIFICATION.
5. 2 1/2" LIFTING HOLES TO BE LOCATED ON EACH SIDE OF BOX SECTIONS FOR HANDLING.
6. GROUT FOR JOINING PIPE TO PRECAST UNITS WILL BE A COMMERCIAL MASONRY GROUT MEETING MDOT SPECIFICATIONS.
7. WHEN INTERIOR RISER UNITS ARE REQUIRED, UNITS SHALL BE MARKED TO IDENTIFY EACH UNIT.
8. CONCRETE & REINFORCING STEEL FOR PRE-CAST INLETS AND JUNCTION BOXES SHALL BE PAID FOR AS THE CALCULATED QUANTITY SHOWN ON THE RE-CAP SHEET FOR CAST-IN-PLACE INLETS & JUNCTION BOXES
9. CURB INLET TOP & CURB INLET EXTENSION TOP SHALL BE PLACED AT THE SAME GRADE AND CROSS SLOPE REQUIRED ON THE ROADWAY PLANS
10. CAST-IN-PLACE INLET TOP MAY BE AS SHOWN ON THIS DRAWING OR AS PER S.D. SS-2

[illegible]

DESCRIPTION OF SHEETS

WORKING NUMBER

SHEET NUMBER

STATE	PROJECT NO.
MISS.	HSIP-0020-01(119)

I-20 W.B ON-RAMP OVER MERIDIAN SPEEDWAY, LLC & MARQUETTE ROAD
BRIDGE AT STA. 237+31.19

ESTIMATED QUANTITIES & GENERAL NOTES

ELEVATION

FOUNDATION PLAN

FOUNDATION PLAN

GENERALIZED SOIL PROFILE

GENERALIZED SOIL PROFILE

SUPER ELEVATION TRANSITION DIAGRAM

END BENT NO. 1

END BENT NO. 1 DETAILS

END BENT NO. 9

END BENT NO. 9 DETAILS

INT. BENT NO. 2

INT. BENT NO. 2 DETAILS

INT. BENT NO. 3

INT. BENT NO. 3 DETAILS

INT. BENT NO. 4

INT. BENT NO. 4 DETAILS

INT. BENT NO. 5

INT. BENT NO. 5 DETAILS

INT. BENT NO. 5 STRUT DETAILS

INT. BENT NO. 6

INT. BENT NO. 6 DETAILS

INT. BENT NO. 6 STRUT DETAILS

INT. BENT NO 7

INT. BENT NO 8

INT. BENT NO 7 & 8 DETAILS

80 FT. SPAN NO. 1

80 FT. SPAN NO. 2

80 FT. SPAN NO. 1 & 2 DETAILS

135 FT. SPAN NO 3

135 FT. SPAN NO 3

135 FT. SPAN DETAILS

60 FT. SPAN NO 4

60 FT. SPAN DETAILS

80 FT. SPAN NO. 5 THRU 8

80 FT. SPAN NO. 5 THRU 8 DETAILS

MISCELLANEOUS SPAN DETAILS

2'-8" RAILING DETAILS

80FT. BEAM DETAILS BEAM NO. 80-1 THRU 80-8 (TYPE-III)

135 FT. BEAM DETAILS BEAM NO. 135-1 THRU 135-6 (BT-72)

60 FT. BEAM DETAILS BEAM NO. 60-1 THRU 60-6 (TYPE-IV)

80 FT. BEAM DETAILS BEAM NO. 80-9 THRU 80-26 (TYPE-III)

BEAM LAYOUT

BEARING PAD, SOLE PLATE, & END BEVEL DETAILS

TEMPORARY STEEL BRACING

60" TRAIL SHAFT AND 54" SINGLE-LEVEL LOADTEST DETAIL

54" MULTI-LEVEL LOADTEST DETAIL

BRIDGE EROSION CONTROL PLANS

BRIDGE UTILITIES

ADDITIONAL RAILROAD NOTES

PILE ENCASEMENT REPAIRS

FOR INFORMATION ONLY (I-20 BRIDGES OVER MSLLC & MARQUETTE ROAD)

FOR INFORMATION ONLY (I-20 BRIDGES OVER US-80)



SAFETY FENCE DETAILS

1 OF 47

2 OF 47

3 OF 47

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47 OF 47

ECBR-1 THRU ECBR-2

UTBR-1

RRN-1

PER 1 THRU 4

HRL 1 THRU 2 & HR 3

I-1 THRU I-10

SFD-1

8004

8005

8006

8007

8008

8009

8010

8011

8012

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8051 - 8052

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8054

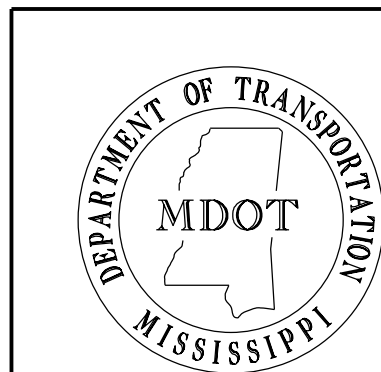
8055 - 8058

8059 - 8061

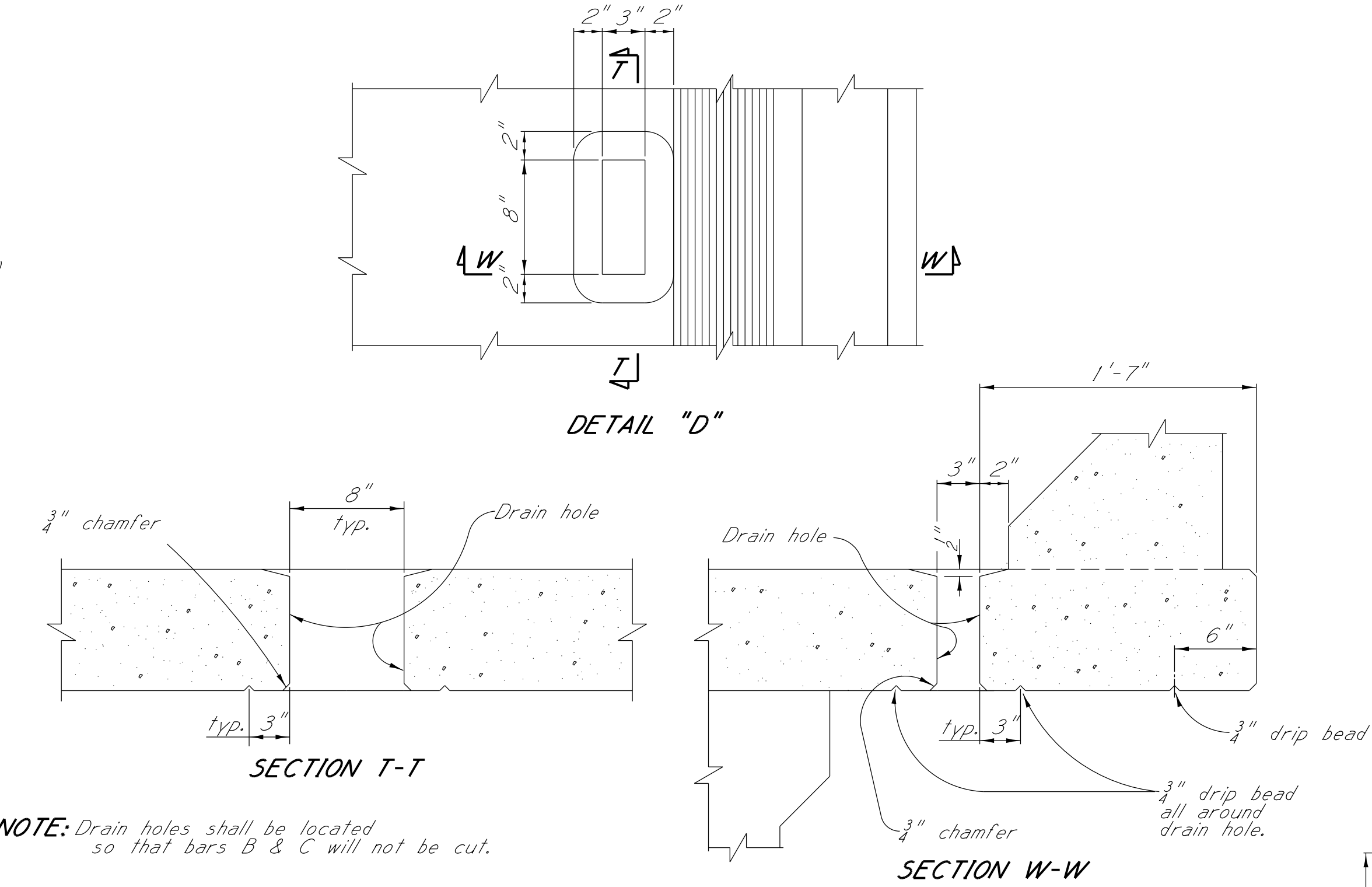
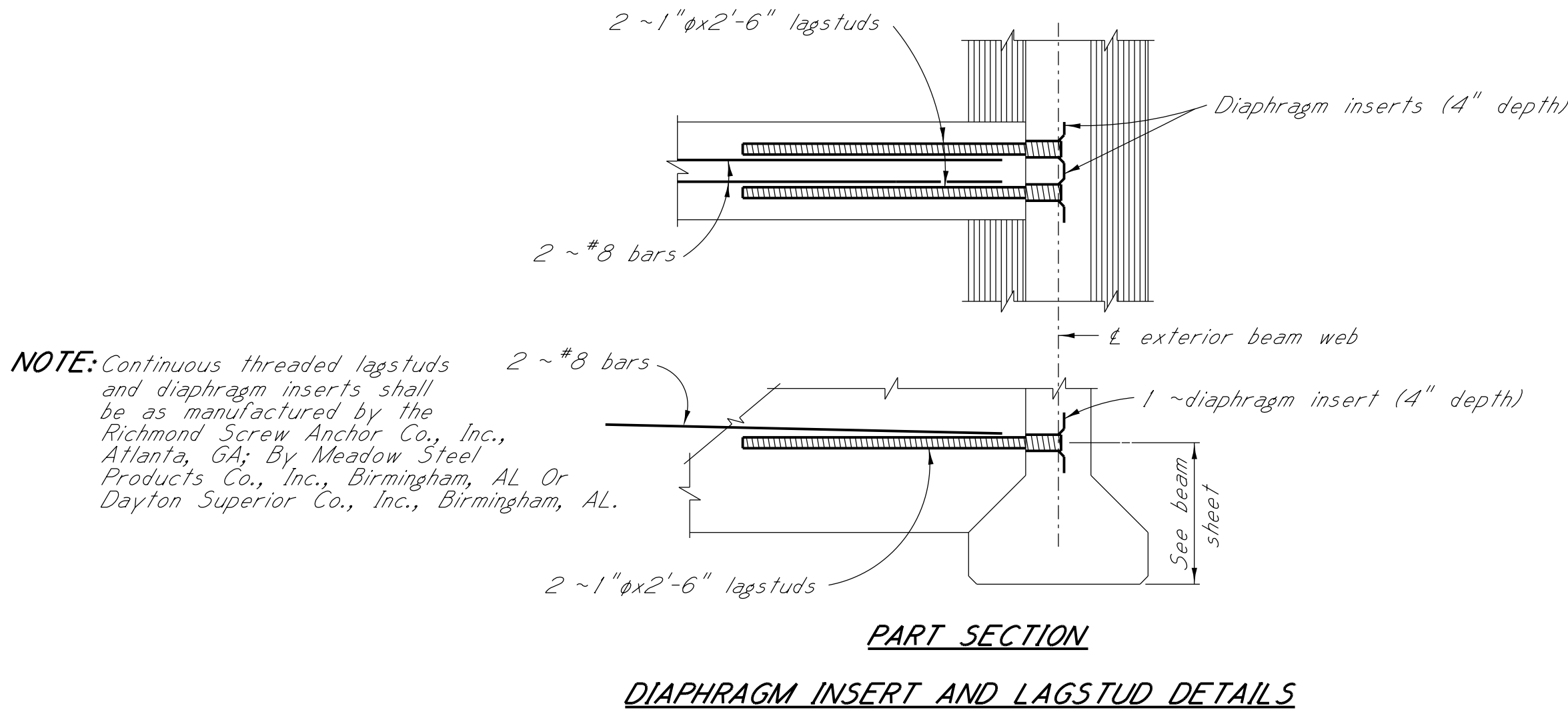
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8072

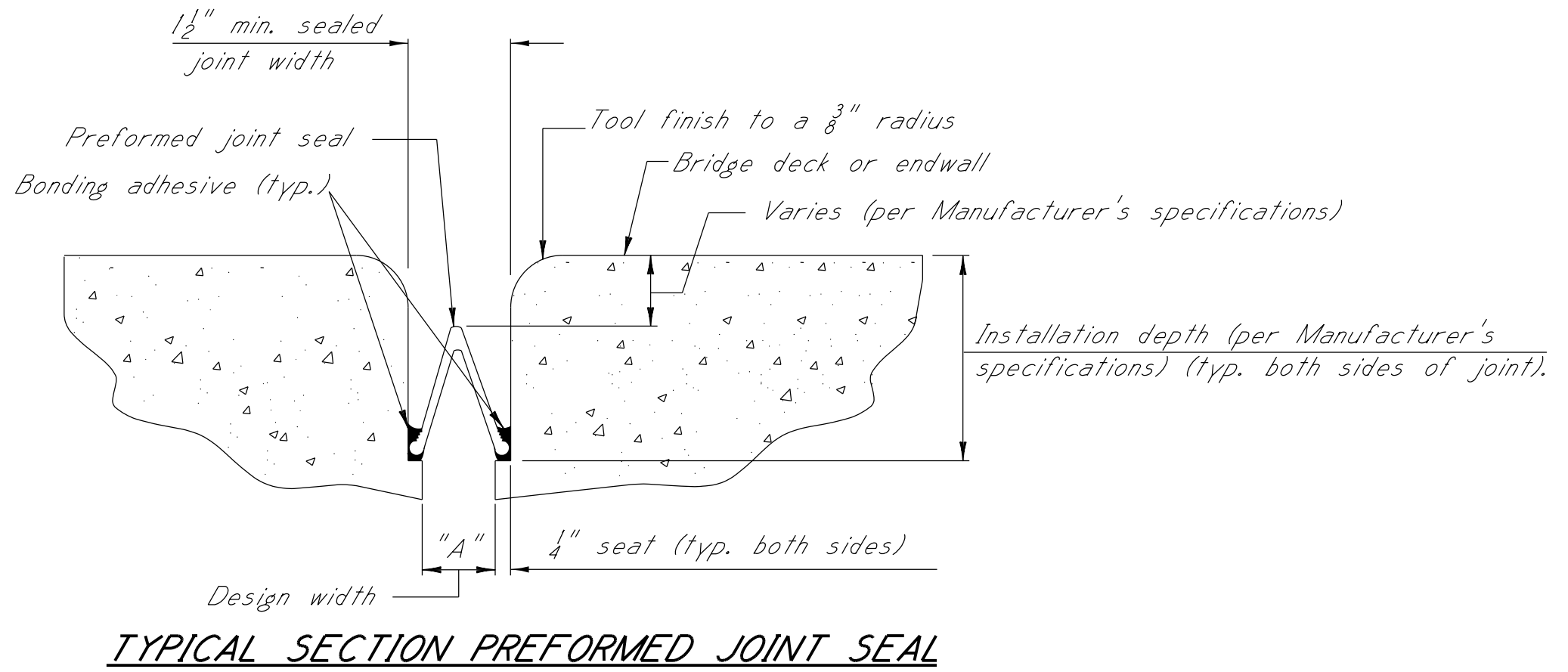
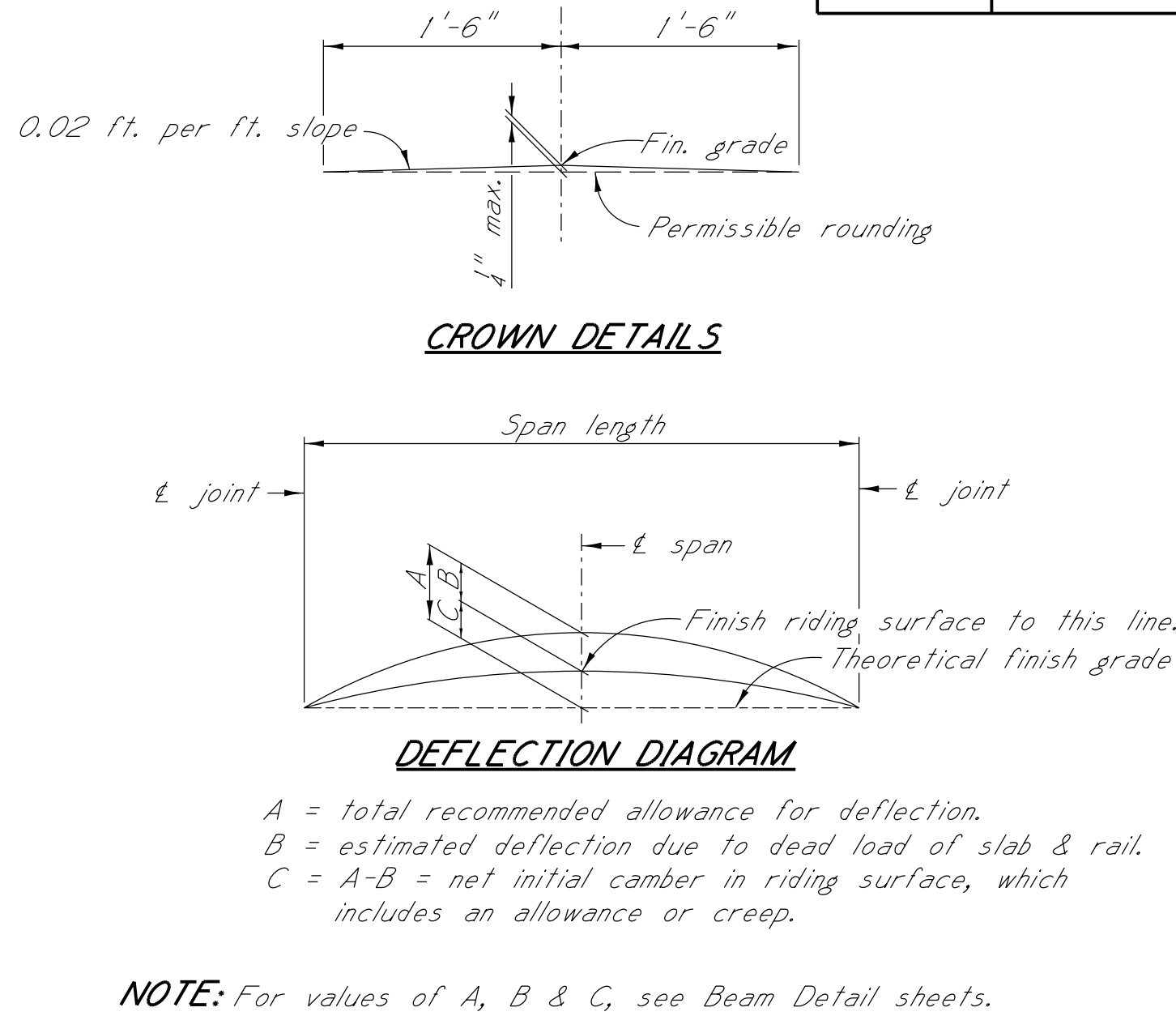
BRIDGE DIVISION		
REVISIONS		
DATE	SHEET NO.	BY
8/13/14	8001, 8035, 8040, & 8072	SEY



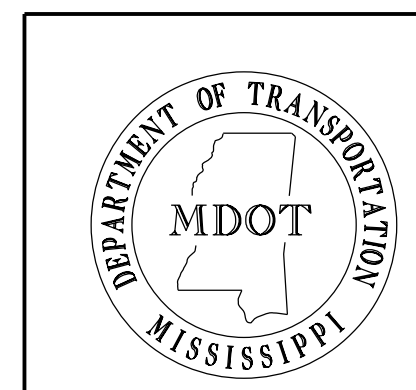
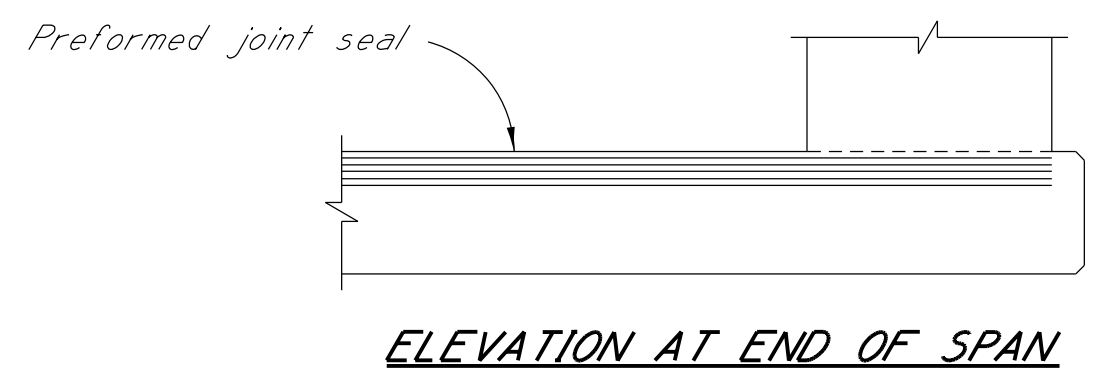
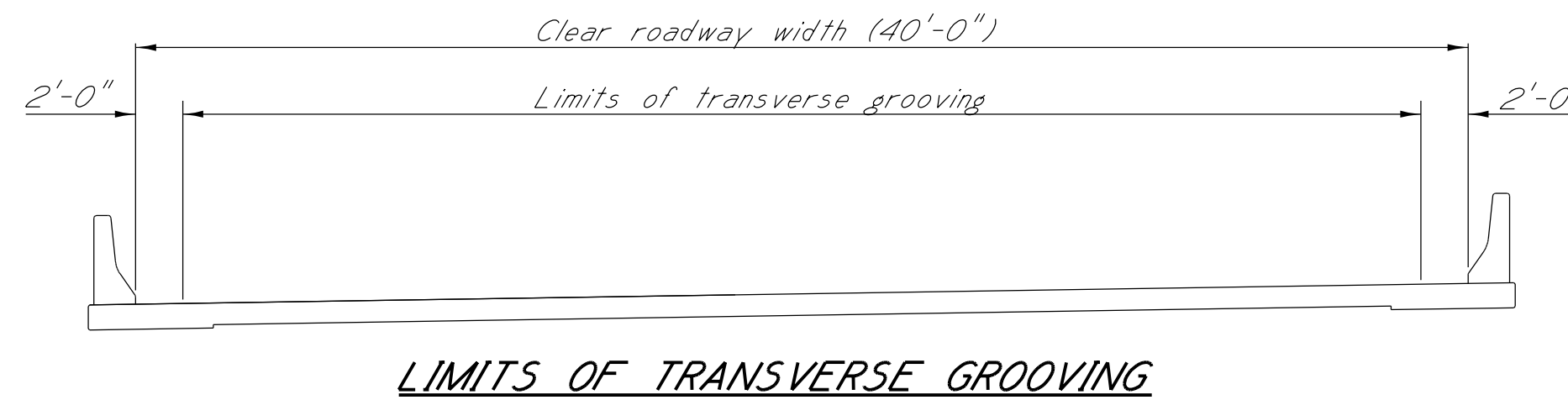
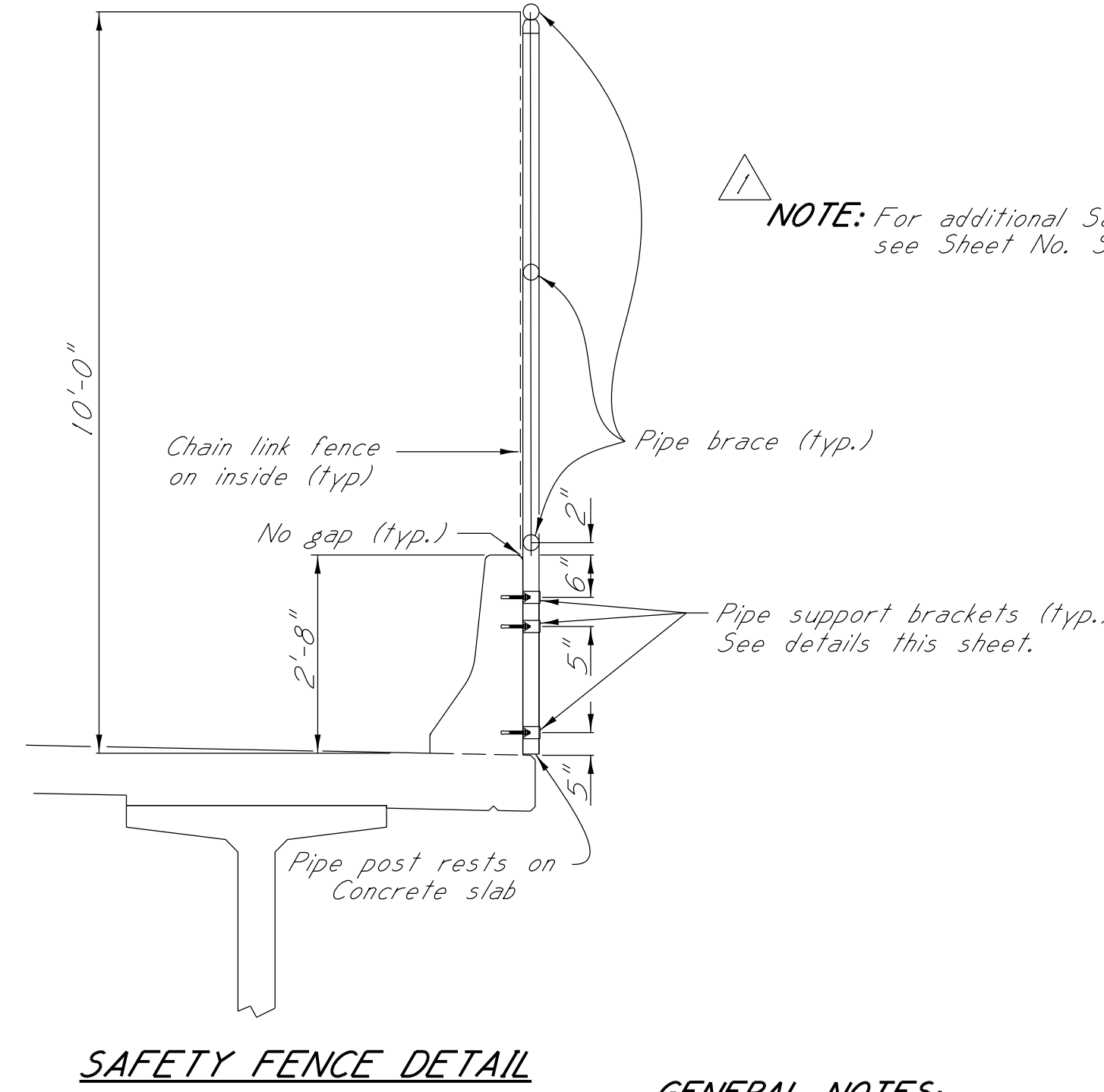
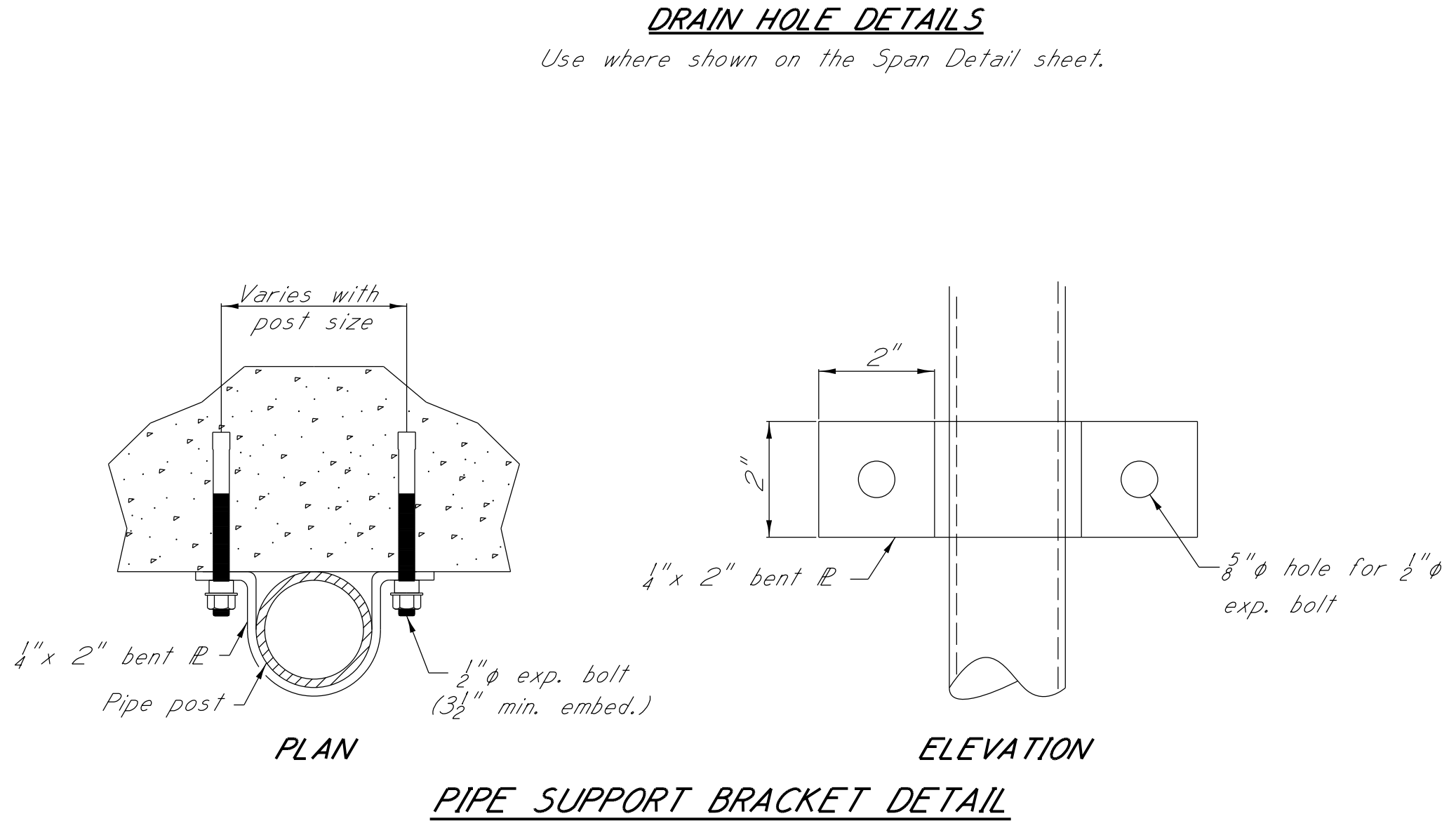
SEY						MISSISSIPPI DEPARTMENT OF TRANSPORTATION BRIDGE AT STA. 237+31.19 DETAILED INDEX (BRIDGE)
Added Sheet No. 8072						
						PROJECT 105536/301000 HSIP-0020-01(191)
						RANKIN COUNTY
						WORKING NUMBER DI-BR-1
						SHEET NUMBER 8001
8/13/14						DESIGNER <u>Spencer Yates</u> CHECKER <u>Bradnado Turnquest</u> DATE <u>5/7/2014</u> DETAILER <u>Spencer Yates</u> ISSUE DATE <u>5/7/2014</u> DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - NICK J. ALTABELLI PE. DEP. DIRECTOR OF STRUCTURES, ASSIST. STATE BRIDGE ENGINEER - JUSTIN WALKER PE.



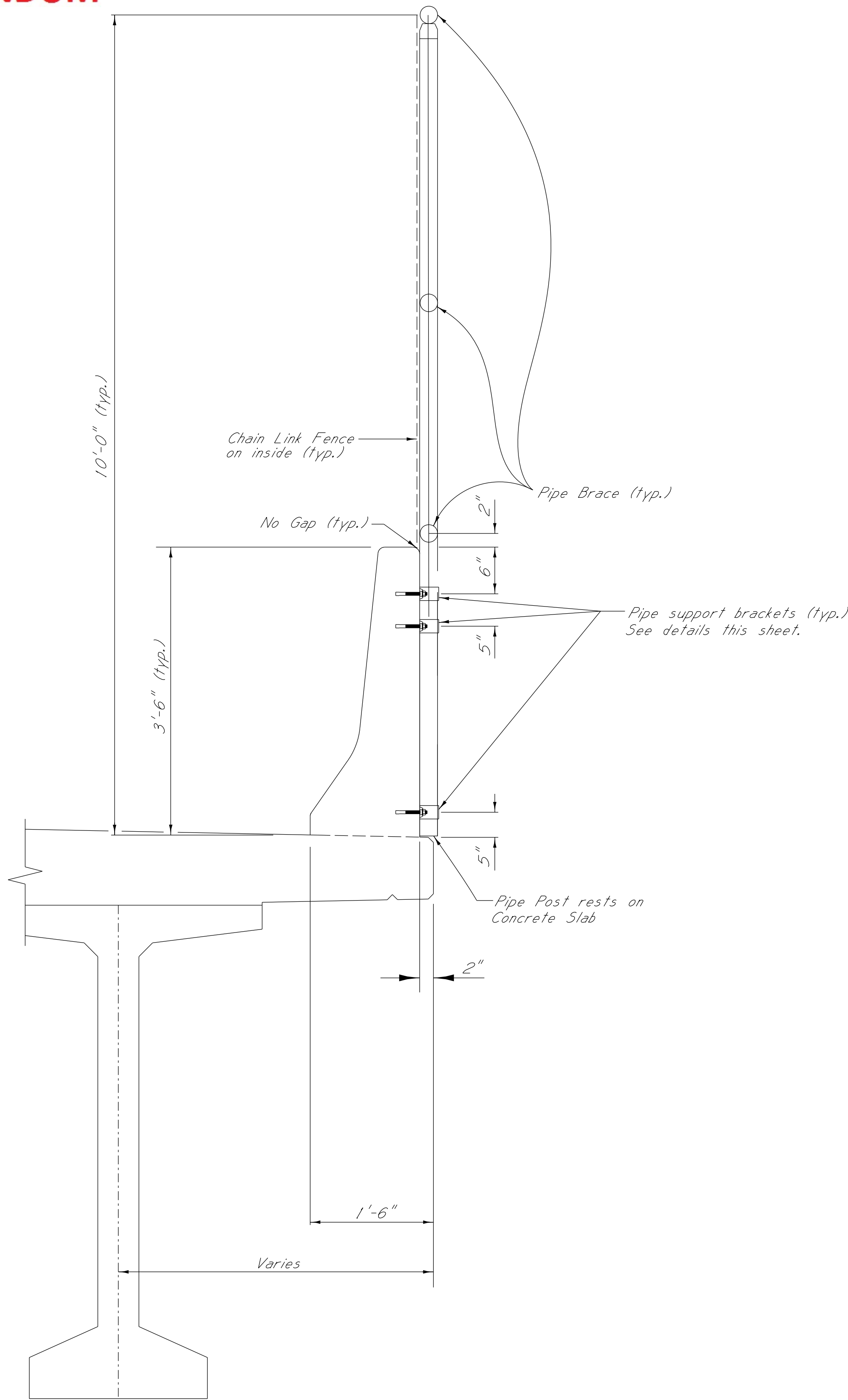
NOTE: Drain holes shall be located so that bars B & C will not be cut.



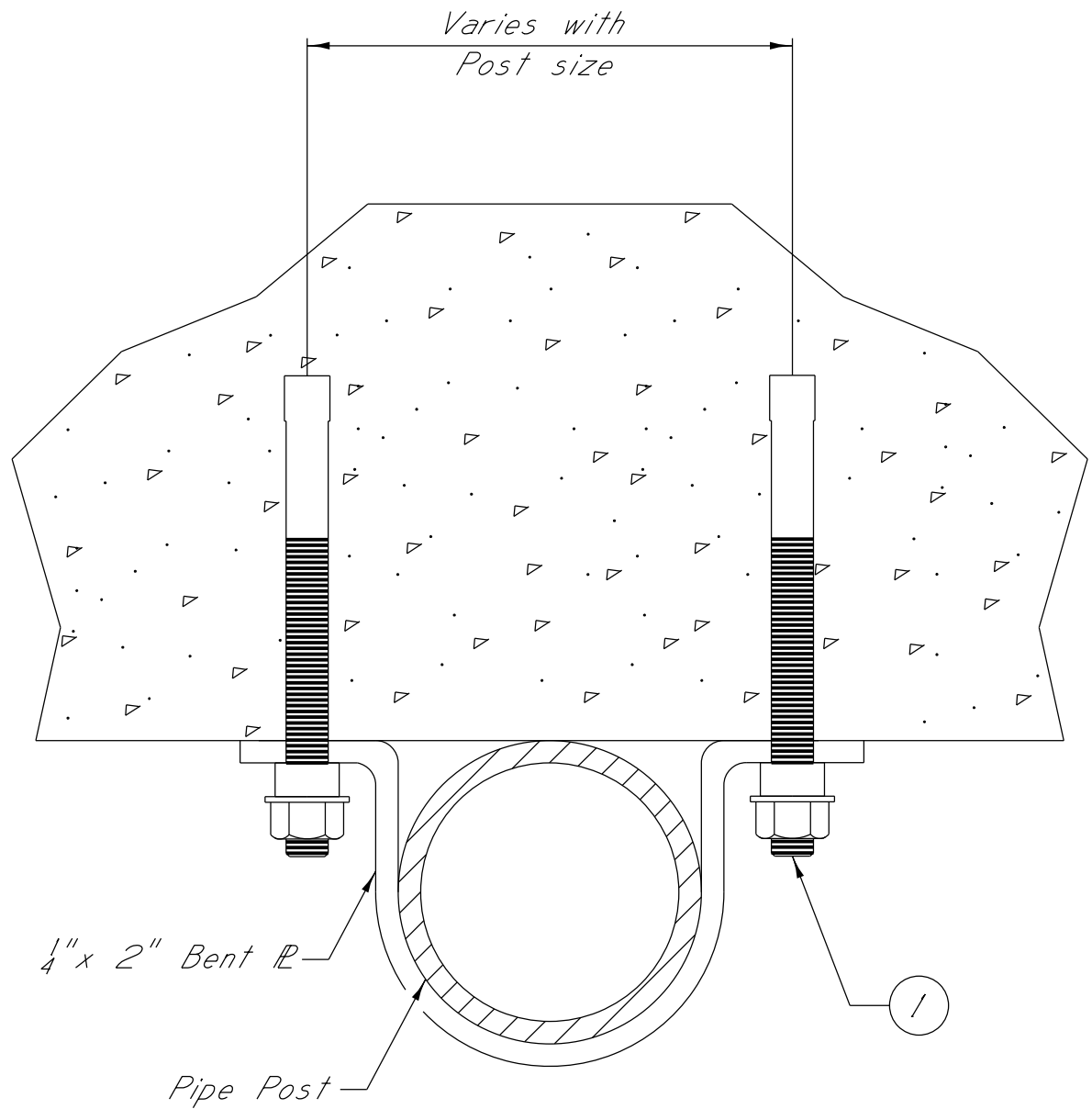
- NOTES:**
- The preformed joint seal shall be one of the following, installed according to the Manufacturer's specifications:
 - Silicoflex Joint Sealing System, manufactured by R.J. Watson, Inc in Alden, NY
www.rjwatson.com
Type I: Model SF-150
Type II: Model SF-225
 - Wabo SPS Joint System manufactured by Watson Bowman Acme Corporation in Amherst, NY
www.wbcorp.com
Type I: Model SPS-225
Type II: Model SPS-400
 - V-Seal Expansion Joint System manufactured by The D.S. Brown Company in North Baltimore, OH
www.dsbrown.com
Type I: Model V-300
Type II: Model V-400
 - For estimating purposes, The RJ Watson Silicoflex Joint Sealing System was selected. However, should another supplier be chosen, it is the Contractor's responsibility to ensure that the Manufacturer's recommendations are followed for joint preparation, installation depths and widths, adhesive setting times, and any other variances between the specifications provided by the Manufacturers. A Manufacturer representative shall be present at the time joint sealing begins to ensure that the Contractor is properly schooled in installation of the joint material. All open joints shall be sealed at their design widths, dimension "A", as indicated on the end bent and span details.
 - Dimension "A" is defined as the design width of the joint opening, which does not account for the 4" seat required on both sides of the joint. Preformed Joint Seal, Type I, shall be used for design widths less than 2'. Preformed Joint Seal, Type II, shall be used for design widths greater than or equal to 2', with the maximum design width being 2 1/2'. In cases where design widths are greater than 2 1/2', another type of expansion material shall be required as directed by the Director of Structures, State Bridge Engineer.
 - Joints in newly constructed bridge decks shall be protected from damage until accepted for maintenance by the State. Damaged joints shall be repaired at no additional cost to the State.



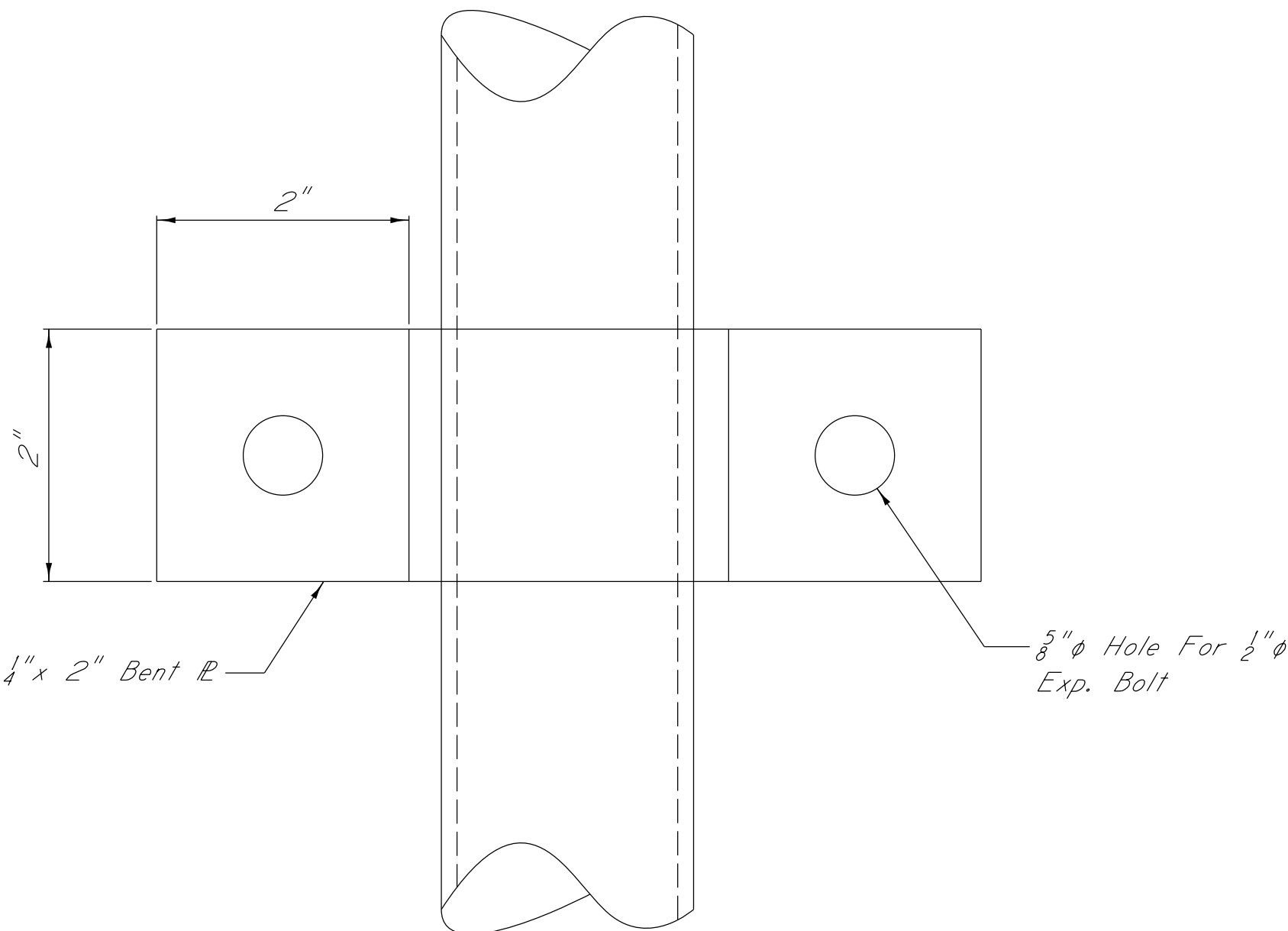
6/13/14	Added note	SEY			BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION BRIDGE AT STA. 237+31.19		WORKING NUMBER 37 OF 47	
						MISCELLANEOUS SPAN DETAILS		SHEET NUMBER 8040	
						PROJECT	105536/301000 HSIP-0020-01(191)	RANKIN	COUNTY
						DESIGNER DETAILER	CHECKER ISSUE DATE 5/7/2014	DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - NICK J. ALTABELLI PE. DEP. DIRECTOR OF STRUCTURES, ASSIST. STATE BRIDGE ENGINEER - JUSTIN WALKER PE.	



SAFETY FENCE DETAIL



PLAN



ELEVATION

PIPE SUPPORT BRACKET DETAIL

1) Drilled anchor hole with $\frac{5}{8}$ " ϕ threaded stainless steel anchor bolts, nuts, and washer. The threaded anchor bolts shall be embedded a minimum of 5". The Contractor shall have the option of the method by which the anchor bolts are to be anchored into the existing concrete. Anchorage into the concrete shall be accomplished by one of the following methods or an approved equal:

1. Self-mixing injection type anchorage system such as "HILTI FASTENING SYSTEMS", "UNITEX PRO-PROXY 300 FAST" or an approved equal. Anchorages shall be installed in accordance with the manufacturer's specifications for the system used.
2. Encapsulated non-expanding chemical type anchorage system such as "RAWLPLUG COMPANY CHEM-STUD", "HILTI ENCAPSULATED" or an approved equal. Anchorages shall be installed in accordance with the manufacturer's specifications for the system used.

Drilling into the concrete to install the anchorage shall be accomplished without cutting existing concrete reinforcing steel bars. Prior to drilling, the Contractor shall locate and mark the existing concrete reinforcing steel bars with nondestructive tools, equipment and methods approved by the Engineer. If existing reinforcing steel bars are encountered during drilling, the drilling shall cease and the hole shall be grouted. The hole shall be relocated to clear the existing reinforcing steel bars.

NOTES:

ANCHOR BOLTS:
Anchor Bolts shall be continuously threaded and conform to ASTM A320 Type 316 stainless steel. Use nuts and washers conforming to ASTM A194, Grade 8M and ASTM A320 respectively.

POST AND RAIL:
The Contractor shall use extra strong steel pipe for the posts. The pipe posts shall conform to one of the following:

- 1) ASTM A53, Type E or S, Grade B, Schedule 80.
- 2) ASTM F1043 with yield strength conforming to Group 1C and wall thickness conforming to Schedule 80.
- 3) ASTM 500, Grade B or ASTM 501, Schedule 80.

Diameters shown for tubular steel posts and rails are nominal. All posts, rails, and pipe clamps shall be galvanized in accordance with ASTM A153.

STRUCTURAL STEEL:
Miscellaneous plates, bars, and shapes including truss rods shall conform to ASTM A36.

SHOP DRAWINGS:
Approval of shop details and materials is required before installation begins.

Safety Fence shall be Chain Link Fence, Type 1, Class 1, as per Sheet No. 37 & Roadway Standard Detail Sheet No. CL-1 (Modified as shown).

Payment for all costs associated with the Safety Fence shall be included under Pay Item 907-607 PPO19 per Bridge Summary of Quantities.



6/13/14	Added Sheet No. 8072	SEY	BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
				SAFETY FENCE DETAILS	
				PROJECT	105536/301000 HSIP-0020-01(191)
				RANKIN	COUNTY
				DESIGNER	CHECKER
				DATE	ISSUE DATE
				6/13/14	5/7/2014
				DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - NICK J. ALTABELLI PE. DEP. DIRECTOR OF STRUCTURES, ASSIST. STATE BRIDGE ENGINEER - JUSTIN WALKER PE.	
				WORKING NUMBER	SFD-1
				SHEET NUMBER	8072