

SECTION 905 -- PROPOSAL (CONTINUED)

I (We) hereby certify by digital signature and electronic submission via Bid Express of the Section 905 proposal below, that all certifications, disclosures and affidavits incorporated herein are deemed to be duly executed in the aggregate, fully enforceable and binding upon delivery of the bid proposal. I (We) further acknowledge that this certification shall not extend to the bid bond or alternate security which must be separately executed for the benefit of the Commission. This signature does not cure deficiencies in any required certifications, disclosures and/or affidavits. I (We) also acknowledge the right of the Commission to require full and final execution on any certification, disclosure or affidavit contained in the proposal at the Commission's election upon award. Failure to so execute at the Commission's request within the time allowed in the Standard Specifications for execution of all contract documents will result in forfeiture of the bid bond or alternate security.

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

ADDENDUM NO. 1 DATED 5/18/2017 ADDENDUM NO. DATED
 ADDENDUM NO. DATED ADDENDUM NO. DATED

Number	Description
1	Revise Table of Contents; Revised NTB Nos. 6997 & 6998; Add NTB Nos. 7001, & 7002; Add SP 907-247-2; Revise Bid Items; Revised Progress Schedule; Revised Plan Sheet Nos. 2, 9, 10, 11, 16, 69, 8001, 8047, & 8048; Amendment EBS Download Required.

TOTAL ADDENDA: 1
 (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.

STP/ EXB-0610-00(017)/ 100444301000

Bolivar County(ies)

Revised 01/26/2016

**MISSISSIPPI DEPARTMENT OF TRANSPORTATION
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PROJECT: STP/EXB-0610-00(017)/100444301 - Bolivar

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

05/18/2017 04:55 PM

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 6997

DATE: 5/18/2017

SUBJECT: Specialty Items

PROJECT: STP/EXB-0610-00(017)/100444301 - BOLIVAR

Pursuant to the provisions of Section 108, the following work items are hereby designated as "Specialty Items" for this contract. Bidders are reminded that these items must be subcontracted in order to be considered as specialty items.

CATEGORY: DISPOSAL OF BUILDINGS, RIGHT OF WAY CLEA

Line No	Pay Item	Description
0080	202-B076	Removal of Traffic Stripe

CATEGORY: EROSION CONTROL

Line No	Pay Item	Description
0140	213-C001	Superphosphate
0150	219-A001	Watering
0160	220-A001	Insect Pest Control
0170	221-A001	Portland Cement Concrete Paved Ditch
0180	223-A001	Mowing
0190	235-A001	Temporary Erosion Checks
0640	907-216-A001	Solid Sodding
0650	907-225-A001	Grassing
0660	907-225-B001	Agricultural Limestone
0670	907-225-C001	Mulch, Vegetative Mulch
0680	907-226-A001	Temporary Grassing
0690	907-228-A001	Erosion Control Blanket, Type I
0700	907-229-A001	Erosion Mat
0710	907-234-C002	Super Silt Fence
0720	907-234-F001	Turbidity Barrier
0730	907-237-A003	Wattles, 20"
0740	907-245-A002	Silt Dike
0750	907-246-B002	Rockbags
0752	907-247-A001	Temporary Stream Diversion
0760	907-249-A001	Riprap for Erosion Control
0770	907-249-B001	Remove and Reset Riprap

CATEGORY: GUARDRAIL, GUIDERAIL

Line No	Pay Item	Description
0320	606-B005	Guard Rail, Class A, Type 1, 'W' Beam
0330	606-C003	Guard Rail, Cable Anchor, Type 1
0340	606-D012	Guard Rail, Bridge End Section, Type I
0350	606-E001	Guard Rail, Terminal End Section

CATEGORY: PAVEMENT STRIPING AND MARKING

Line No	Pay Item	Description
0550	627-J001	Two-Way Clear Reflective High Performance Raised Markers
0560	627-L001	Two-Way Yellow Reflective High Performance Raised Markers
0950	907-626-D005	6" Thermoplastic Double Drop Traffic Stripe, Skip Yellow
0960	907-626-E005	6" Thermoplastic Double Drop Traffic Stripe, Continuous Yellow
0970	907-626-H009	Thermoplastic Double Drop Legend, White
1040	907-626-J003	6" Inverted Profile Thermoplastic Traffic Stripe, Continuous White
1050	907-626-K003	6" Inverted Profile Thermoplastic Traffic Stripe, Skip Yellow
1060	628-J002	6" High Performance Cold Plastic Traffic Stripe, Continuous White
1070	628-L002	6" High Performance Cold Plastic Traffic Stripe, Skip Yellow

CATEGORY: TRAFFIC CONTROL - PERMANENT

Line No	Pay Item	Description
0570	630-A002	Standard Roadside Signs, Sheet Aluminum, 0.125" Thickness
0580	630-F001	Delineators, Guard Rail, White
0590	630-G001	Type 3 Object Markers, OM-3R, Post Mounted
0600	630-G003	Type 3 Object Markers, OM-3L, Post Mounted

CATEGORY: TRAFFIC CONTROL - TEMPORARY

Line No	Pay Item	Description
0380	619-A1003	Temporary Traffic Stripe, Continuous White, Paint
0390	619-A1005	Temporary Traffic Stripe, Continuous White, Type 1 or 2 Tape
0400	619-A2003	Temporary Traffic Stripe, Continuous Yellow, Paint
0410	619-A4002	Temporary Traffic Stripe, Skip Yellow, Paint
0420	619-A4003	Temporary Traffic Stripe, Skip Yellow, Type 1 or 2 Tape
0430	619-A6001	Temporary Traffic Stripe, Legend
0440	619-C7001	Two-Way Yellow Reflective High Performance Raised Marker
0450	619-D1001	Standard Roadside Construction Signs, Less than 10 Square Feet
0460	619-D2001	Standard Roadside Construction Signs, 10 Square Feet or More
0470	619-F1001	Concrete Median Barrier, Precast
0480	619-F3004	Delineators, Guard Rail, White
0490	619-G4001	Barricades, Type III, Single Faced
0500	619-G5001	Free Standing Plastic Drums
0510	619-G7001	Warning Lights, Type "B"
0520	619-K1001	Installation and Removal of Guard Rail, Type I, Class A
0530	619-K4001	Installation and Removal of Guardrail, Terminal End Section

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 6998

CODE (SP)

DATE: 05/16/2017

SUBJECT: Permit for Bridge Maintenance Projects

PROJECT: STP/EXB-0610-00(017) / 100444301 – Bolivar County

The Department has acquired a **Nationwide Permit No. 3 with Special Conditions**. The Contractor shall follow the requirements included in the attached special conditions during work at all bridge sites.

SPECIAL CONDITIONS
NATIONWIDE PERMIT No. 3

Maintenance

(a) The repair, rehabilitation, or replacement of any previously authorized, currently serviceable structure or fill, or of any currently serviceable structure or fill authorized by 33 CFR 330.3, provided that the structure or fill is not to be put to uses differing from those uses specified or contemplated for it in the original permit or the most recently authorized modification. Minor deviations in the structure's configuration or filled area, including those due to changes in materials, construction techniques, requirements of other regulatory agencies, or current construction codes or safety standards that are necessary to make the repair, rehabilitation, or replacement are authorized. This NWP also authorizes the removal of previously authorized structures or fills. Any stream channel modification is limited to the minimum necessary for the repair, rehabilitation, or replacement of the structure or fill; such modifications, including the removal of material from the stream channel, must be immediately adjacent to the project. This NWP also authorizes the removal of accumulated sediment and debris within, and in the immediate vicinity of, the structure or fill. This NWP also authorizes the repair, rehabilitation, or replacement of those structures or fills destroyed or damaged by storms, floods, fire or other discrete events, provided the repair, rehabilitation, or replacement is commenced, or is under contract to commence, within two years of the date of their destruction or damage. In cases of catastrophic events, such as hurricanes or tornadoes, this two-year limit may be waived by the district engineer, provided the permittee can demonstrate funding, contract, or other similar delays.

(b) This NWP also authorizes the removal of accumulated sediments and debris outside the immediate vicinity of existing structures (e.g., bridges, culverted road crossings, water intake structures, etc.). The removal of sediment is limited to the minimum necessary to restore the waterway in the vicinity of the structure to the approximate dimensions that existed when the structure was built, but cannot extend farther than 200 feet in any direction from the structure. This 200 foot limit does not apply to maintenance dredging to remove accumulated sediments blocking or restricting outfall and intake structures or to maintenance dredging to remove accumulated sediments from canals associated with outfall and intake structures. All dredged or excavated materials must be deposited and retained in an area that has no waters of the United States unless otherwise specifically approved by the district engineer under separate authorization.

(c) This NWP also authorizes temporary structures, fills, and work, including the use of temporary mats, necessary to conduct the maintenance activity. Appropriate measures must be taken to maintain normal downstream flows and minimize flooding to the maximum extent practicable, when temporary structures, work, and discharges, including cofferdams, are necessary for construction activities, access fills, or dewatering of construction sites. Temporary fills must consist of materials, and be

placed in a manner, that will not be eroded by expected high flows. After conducting the maintenance activity, temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The areas affected by temporary fills must be revegetated, as appropriate.

(d) This NWP does not authorize maintenance dredging for the primary purpose of navigation. This NWP does not authorize beach restoration. This NWP does not authorize new stream channelization or stream relocation projects.

Notification: For activities authorized by paragraph (b) of this NWP, the permittee must submit a pre-construction notification to the district engineer prior to commencing the activity (see general condition 32). The pre-construction notification must include information regarding the original design capacities and configurations of the outfalls, intakes, small impoundments, and canals. (Authorities: Section 10 of the Rivers and Harbors Act of 1899 and section 404 of the Clean Water Act (Sections 10 and 404))

Note: This NWP authorizes the repair, rehabilitation, or replacement of any previously authorized structure or fill that does not qualify for the Clean Water Act section 404(f) exemption for maintenance.



STATE OF MISSISSIPPI
PHIL BRYANT
GOVERNOR
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
GARY C. RIKARD, EXECUTIVE DIRECTOR

March 6, 2017

Certified Mail No. 7012 3460 0003 2548 6988

Ms. Jennifer Mallard
Regulatory Branch Chief
U.S. Army Corps of Engineers, Vicksburg District
4155 Clay Street
Vicksburg, Mississippi 39183-3435

Dear Ms. Mallard:

Re: US Army Corps of Engineers
Nationwide Permit No. 3
Warren County
COE No. MVK-2017-114
WQC No. WQC2017003

Pursuant to Section 401 of the Federal Water Pollution Control Act (33 U. S. C. 1251, 1341), the Office of Pollution Control (OPC) issues this Certification, after public notice and opportunity for public hearing, to the U.S. Army Corps of Engineers, an applicant for a Federal License or permit to conduct the following activity:

US Army COE, Nationwide Permit No. 3:

Nationwide Permits are general permits issued on a nationwide basis to streamline the authorization of activities that have no more than minimal and cumulative adverse effects on the aquatic environment. The U.S. Army Corps of Engineers issues NWP's to authorize certain activities that require Department of the Army permits under Section 404 of the Clean Water Act and/or Section 10 of the Rivers and Harbors Act of 1899.

3. *Maintenance.*

(a) The repair, rehabilitation, or replacement of any previously authorized, currently serviceable structure or fill, or of any currently serviceable structure or fill authorized by 33 CFR 330.3, provided that the structure or fill is not to be put to uses differing from those uses specified or contemplated for it in the original permit or the most

recently authorized modification. Minor deviations in the structure's configuration or filled area, including those due to changes in materials, construction techniques, requirements of other regulatory agencies, or current construction codes or safety standards that are necessary to make the repair, rehabilitation, or replacement are authorized. This NWP also authorizes the removal of previously authorized structures or fills. Any stream channel modification is limited to the minimum necessary for the repair, rehabilitation, or replacement of the structure or fill; such modifications, including the removal of material from the stream channel, must be immediately adjacent to the project. This NWP also authorizes the removal of accumulated sediment and debris within, and in the immediate vicinity of, the structure or fill. This NWP also authorizes the repair, rehabilitation, or replacement of those structures or fills destroyed or damaged by storms, floods, fire or other discrete events, provided the repair, rehabilitation, or replacement is commenced, or is under contract to commence, within two years of the date of their destruction or damage. In cases of catastrophic events, such as hurricanes or tornadoes, this two-year limit may be waived by the district engineer, provided the permittee can demonstrate funding, contract, or other similar delays.

(b) This NWP also authorizes the removal of accumulated sediments and debris outside the immediate vicinity of existing structures (e.g., bridges, culverted road crossings, water intake structures, etc.). The removal of sediment is limited to the minimum necessary to restore the waterway in the vicinity of the structure to the approximate dimensions that existed when the structure was built, but cannot extend farther than 200 feet in any direction from the structure. This 200-foot limit does not apply to maintenance dredging to remove accumulated sediments blocking or restricting outfall and intake structures or to maintenance dredging to remove accumulated sediments from canals associated with outfall and intake structures. All dredged or excavated materials must be deposited and retained in an area that has no waters of the United States unless otherwise specifically approved by the district engineer under separate authorization.

(c) This NWP also authorizes temporary structures, fills, and work, including the use of temporary mats, necessary to conduct the maintenance activity. Appropriate measures must be taken to maintain normal downstream flows and minimize flooding to the maximum extent practicable, when temporary structures, work, and discharges, including cofferdams, are necessary for construction activities, access fills, or dewatering of construction sites. Temporary fills must consist

of materials, and be placed in a manner, that will not be eroded by expected high flows. After conducting the maintenance activity, temporary fills must be removed in their entirety and the affected areas returned to preconstruction elevations. The areas affected by temporary fills must be revegetated, as appropriate.

(d) This NWP does not authorize maintenance dredging for the primary purpose of navigation. This NWP does not authorize beach restoration. This NWP does not authorize new stream channelization or stream relocation projects.

Notification: For activities authorized by paragraph (b) of this NWP, the permittee must submit a preconstruction notification to the district engineer prior to commencing the activity (see general condition 32). The pre-construction notification must include information regarding the original design capacities and configurations of the outfalls, intakes, small impoundments, and canals.

Note: This NWP authorizes the repair, rehabilitation, or replacement of any previously authorized structure or fill that does not qualify for the Clean Water Act section 404(f) exemption for maintenance. [MVK-2017-114, WQC2017003].

The Office of Pollution Control certifies that the above-described activity will be in compliance with the applicable provisions of Sections 301, 302, 303, 306, and 307 of the Federal Water Pollution Control Act and Section 49-17-29 of the Mississippi Code of 1972, if the applicant complies with the following conditions:

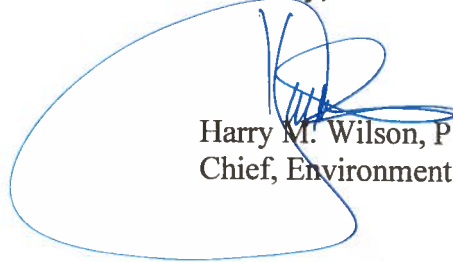
1. The permittee shall obtain appropriate wastewater permits and/or approvals for the proposed activity prior to the commencement of construction activities.
2. For projects greater than five acres of total ground disturbances including clearing, grading, excavating, or other construction activities, the applicant shall obtain the necessary coverage under the State of Mississippi's Large Construction Storm Water General NPDES Permit. For projects greater than one, to less the five acres of total ground disturbances including clearing, grading, excavating, or other construction activities, the applicant shall follow the conditions and limitations of the State of Mississippi's Small Construction Storm Water General NPDES Permit. No construction activities shall begin until the necessary approvals and/or permits have been obtained.
3. No sewage, oil, refuse, or other pollutants shall be discharged into the watercourse.

4. The turbidity outside the limits of a 750-foot mixing zone shall not exceed the ambient turbidity by more than 50-Nephelometric Turbidity Units.

The Office of Pollution Control also certifies that there are no limitations under Section 302 nor standards under Sections 306 and 307 of the Federal Water Pollution Control Act which are applicable to the applicant's above-described activity.

This certification is valid for the project as proposed. Any deviations without proper modifications and/or approvals may result in a violation of the 401 Water Quality Certification. If we can be of further assistance, please contact us.

Sincerely,



Harry M. Wilson, P.E., DEE
Chief, Environmental Permits Division

HMW: ld

- cc: U.S. Army Corps of Engineers, Mobile District
Attn: Mr. Craig Litteken
U.S. Army Corps of Engineers, Memphis District
Attn: Mr. Tim Fudge
U.S. Army Corps of Engineers, Nashville District
Attn: Mr. Timothy Wilder
U.S. Army Corps of Engineers, New Orleans District
Attn: Mr. Michael Farabee
Ms. Willa Brantley, Department of Marine Resources
Mr. David Felder, U.S. Fish and Wildlife Service
Mr. William Ainsley, Environmental Protection Agency

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 – NOTICE TO BIDDERS NO. 7001

DATE: 5/17/2017

SUBJECT: Erosion Control and Box Culvert Construction

PROJECT: STP/EXB-0610-00(017) / 100444301 – Bolivar County

Under no circumstances is the Contractor to stockpile structure excavation anywhere on the project. Before the Contractor starts excavating material necessary to construct a box culvert, the Contractor will have trucks available on the project to load and haul this material away from the project. Furthermore, no excess excavation or undercut will be allowed without trucks available for loading also. All excess excavation, be it due to undercutting soft spots or for any other reason, will be immediately loaded onto trucks and hauled off of the project.

For this project, Structure Excavation will be paid for measuring neat lines 5 foot outside the outer wall thickness and then cut back on 2:1 slopes to the top of the banks.

Erosion Mat (Pay Item 907-229-A001) will be placed on the banks of the excavated box culvert site to run down the bank, under the box, and back up the bank. The Contractor will ensure that the grade of the cut is low enough for the erosion mat to be placed and then the select material be placed on top of the erosion mat.

In the construction of the extension of a box culvert, the Contractor will not remove the head wall of the old box culvert until they fully intend to construct the new box. The removal of the head wall of the old box culvert will not be paid for on an estimate until the new headwall, apron and wings of the extension is complete in place.

The Contractor will be responsible for completing all final construction necessary to facilitate all permanent construction, grassing, ditch treatment etc. for an area +/- 200 feet on each side of the box.

The Contractor will maintain drainage at all times in the Bogue while the box culvert is being constructed. This scheduling should be described in the Contractor's erosion control plan. The box culvert will have to be built one barrel at a time and the water will have to be moved back and forth during construction with a system of dams, pipes, or a combination of both.

The Magnolia Trees in the northwest quadrant of Site 4 will not be removed, damaged, or disturbed in any way on this project. Construction safety fence (absorbed item) shall be placed around the drip line of the trees. The Contractor should plan the construction of the box culvert in such a way as to not to disturb this area in any way.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 7002

CODE: (SP)

DATE: 5/18/2017

SUBJECT: Pay Item Correction

PROJECT: STP/EXB-0610-00(017) / 100444301 – Bolivar County

The Bidder's attention is called to the Summary of Quantities in the Contract Plans. Pay Item 907-247-A001, Temporary Stream Diversion, 2 Each, was inadvertently omitted from the plans. The Bid Sheets are correct.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-247-2

CODE: (SP)

DATE: 05/20/2014

SUBJECT: Temporary Stream Diversion

Section 907-247, Temporary Stream Diversion, is hereby added to and made a part of the 2004 Edition of the Mississippi Standard Specifications for Road and Bridge Construction as follows.

SECTION 907-247 -- TEMPORARY STREAM DIVERSION

907-247.01--Description. Temporary stream diversion shall consist of excavating, stockpiling excavated material, and constructing a stream diversion at a new/existing drainage structure. It shall also include preparation of the diversion stream's bottom and slopes in accordance with the erosion control drawings.

907-247.02--Materials. Geotextiles of the type specified shall meet the requirements of Subsection 714.13. Riprap of the size specified shall meet the requirements of Section 705.

907-247.03--Construction Requirements. Temporary stream diversion(s) will be constructed in accordance with the erosion control drawings.

During the excavation of the stream diversion, all excavated material shall be stockpiled and used to backfill the stream diversion when no longer needed. The stockpiled material shall be treated so the sediment runoff from the stockpile shall not contaminate surrounding areas or enter the nearby streams. If the Contractor elects not to stockpile and maintain suitable excavated material, other suitable material will be used to backfill the stream diversion at no additional costs to the State. Any excavated material that the Engineer deems to be unsatisfactory, will be removed from the project and replaced with suitable material when the stream diversion is backfilled.

907-247.04--Method of Measurement. Temporary stream diversion will be measured per each. Stream diversions that are both left and right of a station number will not be measured separately and will be measured as one unit (each).

Payment for the disposal and replacement of the unsuitable excavated material during the construction of the stream diversion will be measured and payment made under the appropriate pay items.

907-247.05--Basic of Payment. Temporary stream diversion, measured as prescribed above, will be paid for per each, which prices shall be full compensation for all excavation, backfill, geotextile fabric, pumps, pipe, sandbags, riprap, silt fence, maintenance of the installation, backfill after no longer needed, and for all labor, tools, equipment, and incidentals necessary to complete the work.

Payment will be made under:

907-247-A: Temporary Stream Diversion

- per each

Bridge Replacement on SR 448 between Benoit & Shaw, known as Federal Aid Project No. STP/EXB-0610-00(017) / 100444301 in Bolivar 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-A001		1	Lump Sum	Removal of Obstructions
0030	202-B005		17,688	Square Yard	Removal of Asphalt Pavement, All Depths
0040	202-B009		4	Each	Removal of Bridge
0050	202-B053		1,038	Linear Feet	Removal of Guard Rail Including Post, Blockouts & Hardware
0060	202-B064		543	Linear Feet	Removal of Pipe, 8" And Above
0070	202-B070		36	Each	Removal of Sign Including Post & Footing
0080	202-B076		22,107	Linear Feet	Removal of Traffic Stripe
0090	203-EX035	(E)	31,800	Cubic Yard	Borrow Excavation, AH, FME, Class B9-6
0100	203-G003	(E)	19,200	Cubic Yard	Excess Excavation, FM, AH
0110	206-A001	(S)	984	Cubic Yard	Structure Excavation
0120	206-B001	(E)	60	Cubic Yard	Select Material for Undercuts, Contractor Furnished, FM
0130	209-A004		22,107	Square Yard	Geotextile Stabilization, Type V, Non-Woven
0140	213-C001		19	Ton	Superphosphate
0150	219-A001		97	Thousand Gallon	Watering [\$20.00]
0160	220-A001		19	Acre	Insect Pest Control [\$30.00]
0170	221-A001	(S)	67	Cubic Yard	Portland Cement Concrete Paved Ditch
0180	223-A001		152	Acre	Mowing [\$50.00]
0190	235-A001		133	Bale	Temporary Erosion Checks
0200	502-A001	(C)	472	Square Yard	Reinforced Cement Concrete Bridge End Pavement
0210	602-A001	(S)	153,933	Pounds	Reinforcing Steel
0220	603-CA002	(S)	392	Linear Feet	18" Reinforced Concrete Pipe, Class III
0230	603-CA003	(S)	228	Linear Feet	24" Reinforced Concrete Pipe, Class III
0240	603-CA004	(S)	24	Linear Feet	30" Reinforced Concrete Pipe, Class III
0250	603-CA005	(S)	126	Linear Feet	36" Reinforced Concrete Pipe, Class III
0260	603-CA006	(S)	76	Linear Feet	42" Reinforced Concrete Pipe, Class III
0270	603-CA011	(S)	72	Linear Feet	72" Reinforced Concrete Pipe, Class III
0280	603-CB002	(S)	2	Each	24" Reinforced Concrete End Section
0290	603-CB004	(S)	2	Each	36" Reinforced Concrete End Section
0300	603-CB005	(S)	2	Each	42" Reinforced Concrete End Section
0310	603-SB040	(S)	1	Each	18" Branch Connections, Stub into Box Culvert
0315	605-AA003	(S)	123	Square Yard	Geotextile for Subsurface Drainage, Type III
0317	605-W001	(GY)	8	Cubic Yard	Filter Material for Combination Storm Drain and/or Underdrains, Type A,

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price] FM
0320	606-B005		1,275	Linear Feet	Guard Rail, Class A, Type 1, 'W' Beam
0330	606-C003		8	Each	Guard Rail, Cable Anchor, Type 1
0340	606-D012		12	Each	Guard Rail, Bridge End Section, Type I
0350	606-E001		12	Each	Guard Rail, Terminal End Section
0360	615-A018	(S)	120	Linear Feet	Concrete Bridge End Barrier, 33.5"
0370	617-B001		2	Each	Right-of-Way Markers Removed and Reset
0380	619-A1003		24,094	Linear Feet	Temporary Traffic Stripe, Continuous White, Paint
0390	619-A1005		1,372	Linear Feet	Temporary Traffic Stripe, Continuous White, Type 1 or 2 Tape
0400	619-A2003		12,915	Linear Feet	Temporary Traffic Stripe, Continuous Yellow, Paint
0410	619-A4002		5,669	Linear Feet	Temporary Traffic Stripe, Skip Yellow, Paint
0420	619-A4003		686	Linear Feet	Temporary Traffic Stripe, Skip Yellow, Type 1 or 2 Tape
0430	619-A6001		84	Linear Feet	Temporary Traffic Stripe, Legend
0440	619-C7001		325	Each	Two-Way Yellow Reflective High Performance Raised Marker
0450	619-D1001		320	Square Feet	Standard Roadside Construction Signs, Less than 10 Square Feet
0460	619-D2001		1,014	Square Feet	Standard Roadside Construction Signs, 10 Square Feet or More
0470	619-F1001		200	Linear Feet	Concrete Median Barrier, Precast
0480	619-F3004		52	Each	Delineators, Guard Rail, White
0490	619-G4001		480	Linear Feet	Barricades, Type III, Single Faced
0500	619-G5001		91	Each	Free Standing Plastic Drums
0510	619-G7001		16	Each	Warning Lights, Type "B"
0520	619-K1001		663	Linear Feet	Installation and Removal of Guard Rail, Type I, Class A
0530	619-K4001		16	Each	Installation and Removal of Guardrail, Terminal End Section
0540	620-A001		1	Lump Sum	Mobilization
0550	627-J001		33	Each	Two-Way Clear Reflective High Performance Raised Markers
0560	627-L001		80	Each	Two-Way Yellow Reflective High Performance Raised Markers
0570	630-A002		72	Square Feet	Standard Roadside Signs, Sheet Aluminum, 0.125" Thickness
0580	630-F001		60	Each	Delineators, Guard Rail, White
0590	630-G001		10	Each	Type 3 Object Markers, OM-3R, Post Mounted
0600	630-G003		10	Each	Type 3 Object Markers, OM-3L, Post Mounted
0610	815-A009	(S)	1,380	Ton	Loose Riprap, Size 300
0620	815-E001	(S)	2,556	Square Yard	Geotextile under Riprap
0630	907-207-A001		12	Each	Settlement Plate
0640	907-216-A001		4,845	Square Yard	Solid Sodding

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
0650	907-225-A001		39	Acre	Grassing
0660	907-225-B001		19	Ton	Agricultural Limestone
0670	907-225-C001		76	Ton	Mulch, Vegetative Mulch
0680	907-226-A001		38	Acre	Temporary Grassing
0690	907-228-A001		4,845	Square Yard	Erosion Control Blanket, Type I
0700	907-229-A001		1,000	Square Yard	Erosion Mat
0710	907-234-C002		16,350	Linear Feet	Super Silt Fence
0720	907-234-F001		335	Linear Feet	Turbidity Barrier
0730	907-237-A003		198	Linear Feet	Wattles, 20"
0740	907-245-A002		198	Linear Feet	Silt Dike
0750	907-246-B002		198	Each	Rockbags
0752	907-247-A001		2	Each	Temporary Stream Diversion
0760	907-249-A001		88	Ton	Riprap for Erosion Control
0770	907-249-B001		54	Cubic Yard	Remove and Reset Riprap
0780	907-403-A017	(BA1)	2,726	Ton	9.5-mm, ST, Asphalt Pavement
0790	907-403-A018	(BA1)	1,205	Ton	12.5-mm, ST, Asphalt Pavement
0800	907-403-A019	(BA1)	3,151	Ton	19-mm, ST, Asphalt Pavement
0810	907-406-A001		4,267	Square Yard	Cold Milling of Bituminous Pavement, All Depths
0820	907-407-A001	(A2)	2,342	Gallon	Asphalt for Tack Coat
0830	907-601-A001	(S)	771	Cubic Yard	Class "B" Structural Concrete
0840	907-601-B003	(S)	4	Cubic Yard	Class "B" Structural Concrete, Minor Structures
0850	907-603-ALT01	(S)	256	Linear Feet	18" Type A Alternate Pipe
0860	907-603-ALT02	(S)	27	Linear Feet	24" Type A Alternate Pipe
0870	907-617-A001		46	Each	Right-of-Way Marker
0880	907-618-A001		1	Lump Sum	Maintenance of Traffic
0890	907-618-C001		1	Lump Sum	Construction and Removal of Detour Bridge @ STA. 12+52
0900	907-618-C001		1	Lump Sum	Construction and Removal of Detour Bridge @ STA. 16+65
0910	907-618-C001		1	Lump Sum	Construction and Removal of Detour Bridge @ STA. 18+18
0920	907-618-E001		5,126	Linear Feet	Detour Bridge Piling
0930	907-618-F003		1	Lump Sum	Detour Bridge PDA Test Pile
0940	907-626-C007		11,428	Linear Feet	6" Thermoplastic Double Drop Edge Stripe, Continuous White
0950	907-626-D005		5,714	Linear Feet	6" Thermoplastic Double Drop Traffic Stripe, Skip Yellow
0960	907-626-E005		659	Linear Feet	6" Thermoplastic Double Drop Traffic Stripe, Continuous Yellow
0970	907-626-H009		112	Linear Feet	Thermoplastic Double Drop Legend, White

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
0974	907-605-O003	(S)	221	Linear Feet	4" Perforated Sewer Pipe for Underdrains, SDR 23.5
0978	907-605-P003	(S)	30	Linear Feet	4" Non-perforated Sewer Pipe for Underdrains, SDR 23.5
0980	907-630-C003		120	Linear Feet	Steel U-Section Posts, 3.0 lb/ft
0990	907-699-A002		1	Lump Sum	Roadway Construction Stakes
1000	907-832-PP001		4,355	Square Yard	Bridge Concrete Mat
ALTERNATE GROUP AA NUMBER 1					
1010	907-304-F002	(GT)	13,514	Ton	Size 610 Crushed Stone Base
ALTERNATE GROUP AA NUMBER 2					
1020	907-304-F003	(GT)	13,514	Ton	3/4" and Down Crushed Stone Base
ALTERNATE GROUP AA NUMBER 3					
1030	907-304-F004	(GT)	13,514	Ton	Size 825B Crushed Stone Base
ALTERNATE GROUP BB NUMBER 1					
1040	907-626-J003		1,360	Linear Feet	6" Inverted Profile Thermoplastic Traffic Stripe, Continuous White
1050	907-626-K003		680	Linear Feet	6" Inverted Profile Thermoplastic Traffic Stripe, Skip Yellow
ALTERNATE GROUP BB NUMBER 2					
1060	628-J002		1,360	Linear Feet	6" High Performance Cold Plastic Traffic Stripe, Continuous White
1070	628-L002		680	Linear Feet	6" High Performance Cold Plastic Traffic Stripe, Skip Yellow
ALTERNATE GROUP CC NUMBER 1					
1074	605-W002	(GY)	139	Cubic Yard	Filter Material for Combination Storm Drain and/or Underdrains, Type B, FM
ALTERNATE GROUP CC NUMBER 2					
1078	605-W003	(GY)	139	Cubic Yard	Filter Material for Combination Storm Drain and/or Underdrains, Type C, FM
Bridge Items					
1080	501-K001		2,267	Square Yard	Transverse Grooving
1090	803-B002	(S)	3	Each	Conventional Static Pile Load Test [\$5,000.00]
1100	803-C003	(S)	4,940	Linear Feet	16" x 16" Prestressed Concrete Piling
1110	803-C004	(S)	1,940	Linear Feet	18" x 18" Prestressed Concrete Piling
1120	803-F010	(S)	1,370	Linear Feet	22" Pre-Formed Pile Hole
1130	803-F013	(S)	1,161	Linear Feet	25" Pre-Formed Pile Hole
1140	803-I002	(S)	8	Each	PDA Test Pile, Concrete Pile
1150	803-J001	(S)	6	Each	Pile Restrike
1160	805-A001	(S)	188,247	Pounds	Reinforcement
1170	813-A002	(S)	1,370	Linear Feet	Concrete Railing, 32"
1180	907-804-A018	(S)	287	Cubic Yard	Bridge Concrete, Substructure, Class AA
1190	907-804-A019	(S)	695	Cubic Yard	Bridge Concrete, Superstructure, Class AA
1200	907-804-C016	(S)	1,578	Linear Feet	40' Prestressed Concrete Beam, Type I+2

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
1210	907-804-C019	(S)	896	Linear Feet	60' Prestressed Concrete Beam, Type II+2
1220	907-804-C030	(S)	399	Linear Feet	80' Prestressed Concrete Beam, Type III
1230	907-804-C171	(S)	499	Linear Feet	100' Prestressed Concrete Beam, Type IV

ADDENDUM

DESCRIPTION OF SHEET

- TITLE SHEET (1)
- DETAILED INDEX AND GENERAL NOTES (4)
- DETAILED INDEX
- DETAILED INDEX
- GENERAL NOTES
- GENERAL NOTES
- TYPICAL SECTION SHEETS (3)
- NEW CONSTRUCTION AND DETOUR- SITES 1 - 4
- WIDEN AND OVERLAY AND REMOVAL OF DETOUR ROAD - SITES 1 - 4
- MISCELLANEOUS TYPICAL SECTION DETAILS FOR TWO-WAY ROADWAYS
- QUANTITY SHEETS (15)
- SUMMARY OF QUANTITIES
- SUMMARY OF QUANTITIES
- SUMMARY OF QUANTITIES
- STANDARD ROADSIDE SIGN QUANTITIES
- ESTIMATED QUANTITIES - REMOVAL ITEMS, ESTIMATED EROSION CONTROL
- ESTIMATED QUANTITIES - EARTHWORK
- ESTIMATED QUANTITIES - EARTHWORK CONT'D
- ESTIMATED QUANTITIES - PAVEMENT MARKINGS, BRIDGE END PAVEMENT
- ESTIMATED QUANTITIES - GUARD RAIL
- ESTIMATED QUANTITIES - DRIVEWAYS
- ESTIMATED QUANTITIES - SIDE DRAINS
- ESTIMATED QUANTITIES - BOX BRIDGES, DRAINAGE STRUCTURES
- SUMMARY OF TRAFFIC CONTROL ITEMS
- ESTIMATED QUANTITIES FOR TRAFFIC CONTROL SIGNS
- SUMMARY OF CULVERT HYDRAULIC DESIGN

PLAN AND PROFILE SHEETS (8)

- SITE 1 MAINLINE
- SITE 1 DETOUR
- SITE 2 MAINLINE
- SITE 2 DETOUR
- SITE 3 MAINLINE
- SITE 3 DETOUR
- SITE 4 MAINLINE
- SITE 4 DETOUR

TRAFFIC CONTROL PLAN (15)

- PHASE 1 - TRAFFIC CONTROL TYPICAL SECTION
- PHASE 1 - TRAFFIC CONTROL PLANS - SITE 1
- PHASE 1 - TRAFFIC CONTROL PLANS - SITE 2
- PHASE 1 - TRAFFIC CONTROL PLANS - SITE 3
- PHASE 1 - TRAFFIC CONTROL PLANS - SITE 4
- PHASE 2 - TRAFFIC CONTROL TYPICAL SECTION
- PHASE 2 - TRAFFIC CONTROL PLANS - SITE 1
- PHASE 2 - TRAFFIC CONTROL PLANS - SITE 2
- PHASE 2 - TRAFFIC CONTROL PLANS - SITE 3
- PHASE 2 - TRAFFIC CONTROL PLANS - SITE 4
- PHASE 3 - TRAFFIC CONTROL TYPICAL SECTION
- PHASE 3 - TRAFFIC CONTROL PLANS - SITE 1
- PHASE 3 - TRAFFIC CONTROL PLANS - SITE 2
- PHASE 3 - TRAFFIC CONTROL PLANS - SITE 3
- PHASE 3 - TRAFFIC CONTROL PLANS - SITE 4

CONSTRUCTION SIGNING PLANS (4)

- CONSTRUCTION SIGNING - SITE 1
- CONSTRUCTION SIGNING - SITE 2
- CONSTRUCTION SIGNING - SITE 3
- CONSTRUCTION SIGNING - SITE 4

PAVEMENT MARKINGS DETAIL SHEETS (4)

- PAVEMENT MARKINGS - SITE 1 STA. 49+50.000 TO STA. 66+77.281
- PAVEMENT MARKINGS - SITE 2 STA. 210+50.000 TO STA. 226+67.601
- PAVEMENT MARKINGS - SITE 3 STA. 405+00.000 TO STA. 421+68.919
- PAVEMENT MARKINGS - SITE 4 STA. 461+00.000 TO STA. 474+79.806

WKG. NO.

SH. NO.

1

EROSION CONTROL PLAN (8)

- SITE 1 - MAINLINE
- SITE 1 - DETOUR
- SITE 2 - MAINLINE
- SITE 2 - DETOUR
- SITE 3 - MAINLINE
- SITE 3 - DETOUR
- SITE 4 - MAINLINE
- SITE 4 - DETOUR

SPECIAL DESIGN SHEETS (49)

- VEGETATION SCHEDULE
- RIGHT-OF-WAY MARKERS - SITE 1
- RIGHT-OF-WAY MARKERS - SITE 2
- RIGHT-OF-WAY MARKERS - SITE 3
- RIGHT-OF-WAY MARKERS - SITE 4
- 33.5" BRIDGE END PAVEMENT RAIL
- BRIDGE END PAVEMENT (WITH RAIL, OVERLAY, AND SLEEPER SLAB)
- TYPICAL TEMPORARY EROSION/SEDIMENT CONTROL APPLICATIONS
- DETAILS OF SEDIMENT BARRIER APPLICATIONS
- DETAILS OF SILT FENCE INSTALLATION
- DITCH CHECK STRUCTURES, TYPICAL APPLICATIONS AND DETAILS
- TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES, SILT FENCE AND HAY
- BALE DITCH CHECKS
- DETAILS OF EROSION CONTROL WATTLE DITCH CHECK
- DETAILS OF EROSION CONTROL SILT DIKE DITCH CHECK
- ROCK DITCH CHECK
- ROCK FILTER DAM
- ROCK DITCH CHECK WITH SUMP EXCAVATION AND ROCK FILTER DAM
- INLET PROTECTION: TYPICAL APPLICATIONS AND DETAILS
- INLET PROTECTION DETAILS FOR COARSE AGGREGATE ON GRADES & SAGS
- INLET PROTECTION DETAILS OF WATTLES
- INLET PROTECTION DETAILS OF MANUFACTURED INLET PROTECTION DEVICE
- INLET PROTECTION DETAILS OF SAND BAG
- STABILIZED CONSTRUCTION ENTRANCE
- TEMPORARY CULVERT STREAM CROSSING
- TEMPORARY STREAM DIVERSION
- TEMPORARY STREAM DIVERSION (BOX EXTENSIONS)
- FLOATING TURBIDITY CURTAIN
- DETAILS OF EROSION CONTROL SANDBAG DITCH CHECK
- SEDIMENT RETENTION BARRIER
- DETAILS OF TYPICAL DITCH TREATMENTS
- DITCH TREATMENT - INSTALLATION DETAIL FOR SOIL REINFORCING MAT
- GUARDRAIL: RUB RAIL HARDWARE
- GUARDRAIL: BRIDGE END SECTION TYPE "1" (WOOD POSTS)
- GUARDRAIL: BRIDGE END SECTION TYPE "1" (STEEL POSTS)
- EROSION CONTROL
- EROSION CONTROL BLANKET
- TYPICAL TEMPORARY EROSION CONTROL MEASURES (SLOPE DRAIN AND TYPE A SILT BASIN)
- TYPICAL TEMPORARY EROSION CONTROL MEASURES (TYPE B SILT BASIN)
- SUPERELEVATION CASE 1: ROTATION ABOUT CENTERLINE (2% NORMAL SUBGRADE)
- SUPERELEVATION RUNOFF CASE 1: ROTATION ABOUT CENTERLINE
- ROW-OF-WAY MARKER
- GUARDRAIL (TEMPORARY): TYPICAL INSTALLATION AT DETOUR BRIDGE ENDS
- HIGHWAY SIGN AND BARRICADE DETAILS FOR CONSTRUCTION PROJECTS
- BREAKAWAY SIGN SUPPORTS
- TYPICAL INSTALLATION AND DETAILS OF DELINEATORS AND DISTANCE REFERENCE SIGNS
- TRAFFIC CONTROL DETAILS FOR TWO LANE & FOUR LANE BRIDGE APPROACHES
- TRAFFIC CONTROL DETAILS - DRUM PLACEMENT AND SHOULDER CLOSURE
- LOCATION OF R16-3 SIGNS
- 2-LANE, 2-WAY CLEAR RAISED PAVEMENT MARKERS PLACED ON SIDE ROADS

- 3
- 3A
- 4
- 4A
- 5
- 5A
- 6
- 6A
- 24
- 25
- 26
- 27
- 28
- 29
- 30
- 31

- TCTS-1
- TC1-1
- TC1-2
- TC1-3
- TC1-4
- TCTS-2
- TC2-1
- TC2-2
- TC2-3
- TC2-4
- TCTS-3
- TC3-1
- TC3-2
- TC3-3
- TC3-4

- CS-1
- CS-2
- CS-3
- CS-4

- PMD-1
- PMD-2
- PMD-3
- PMD-4

DESCRIPTION OF SHEET

STATE PROJECT NO.
MISS. STP/EXB-0610-00(017)

WKG. NO. SH. NO.

- ECP-3 55
- ECP-3A 56
- ECP-4 57
- ECP-4A 58
- ECP-5 59
- ECP-5A 60
- ECP-6 61
- ECP-6A 62
- VS-1 63
- RWC-1 64
- RWC-2 65
- RWC-3 66
- RWC-4 67
- BEPR-1B 68
- BEPR-SS 69
- ECD-1 70
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- ECD-6 75
- ECD-7 76
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- ECD-17 86
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- ECD-20 89
- ECD-21 90
- ECD-22 91
- DT-1 92
- DT-1A 93
- GR-RR 94
- GR-2F 95
- GR-2G 96
- EC-1 97
- ECB-1 98
- TEC-2 99
- TEC-3 100
- SDSE-2A 101
- SDRO-1 102
- RW-1 103
- TGR-1 104
- SOTCP-10 105
- SDSN-6B 106
- SDSN-8 107
- BSD-1 108
- TCP-SC 109
- SSD-1 110
- CRPMSR-2 111

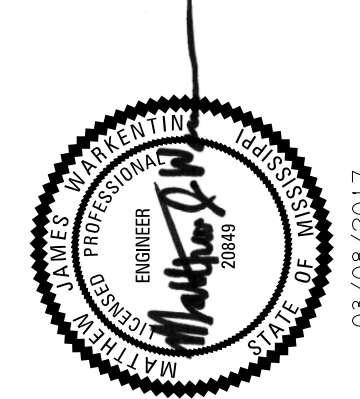
DATE	DESIGN TEAM	PICKERING	CHECKED	DATE
				03/08/17

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DETAILED INDEX

COUNTY: BOLIVAR
PROJ. NUM.: STP/EXB-0610-00(017)
WORKING NUMBER: DJ-1
SHEET NUMBER: 2

PS & E PLANS- 03/08/2017	
FMS CON. # 100444/301000	
DATE	REVISIONS
DATE	BY
4/18/17	9.10.11.13.16, 21.63.71
5/11/17	9.10.11.16.69



ROADWAY DESIGN

ADDENDUM

SUMMARY OF QUANTITIES (SHEET 1)

PAY ITEM NO.	PAY ITEM	UNIT	PRELIMINARY	FINAL
201-A001	CLEARING AND GRUBBING	LS	100%	
202-A001	REMOVAL OF OBSTRUCTIONS	LS	100%	
202-B005	REMOVAL OF ASPHALT PAVEMENT, ALL DEPTHS	SY	17,688	
202-B009	REMOVAL OF BRIDGE	EA	4	
202-B053	REMOVAL OF GUARD RAIL INCLUDING POST, BLOCKOUTS & HARDWARE	LF	1,038	
202-B064	REMOVAL OF PIPE, 8" AND ABOVE	LF	543	
202-B070	REMOVAL OF SIGN INCLUDING POST & FOOTING	EA	36	
202-B076	REMOVAL OF TRAFFIC STRIPE	LF	22,107	
203-EX035	BORROW EXCAVATION, AH, FME, CLASS B9-6	CY		
203-EX035	BORROW EXCAVATION, AH, FME, CLASS B9-6	CY	31,800	
203-G003	EXCESS EXCAVATION, FM, AH	CY	19,200	
206-A001	STRUCTURE EXCAVATION	CY	984	
206-B001	SELECT MATERIAL FOR UNDERCUTS, CONTRACTOR FURNISHED, FM	CY	60	
907-207-A001	SETTLEMENT PLATE	EA	12	
209-A004	GEOTEXTILE STABILIZATION, TYPE V, NON-WOVEN	SY	22,107	
213-C001	SUPERPHOSPHATE	TON	19	
907-216-A001	SOLID SODDING	SY	4,845	
219-A001	WATERING	KGAL	97	
220-A001	INSECT PEST CONTROL	ACRE	19	
221-A001	PORTLAND CEMENT CONCRETE PAVED DITCH	CY	67	
223-A001	MOWING	ACRE	152	
907-225-A001	GRASSING	ACRE	39	
907-225-B001	AGRICULTURAL LIMESTONE	TON	19	
907-225-C001	MULCH, VEGETATIVE MULCH	TON	76	
907-226-A001	TEMPORARY GRASSING	ACRE	38	
907-228-A001	EROSION CONTROL BLANKET, TYPE I	SY	4,845	
907-229-A001	EROSION MAT	SY	1,000	
907-234-C002	SUPER SILT FENCE	LF	16,350	
907-234-F001	TURBIDITY BARRIER	LF	335	
235-A001	TEMPORARY EROSION CHECKS	BALE	133	
907-237-A003	WATTLES, 20"	LF	198	
907-245-A002	SILT DIKE	LF	198	
907-246-B002	ROCKBAGS	EA	198	
907-249-A001	RIPRAP FOR EROSION CONTROL	TON	88	
907-249-B001	REMOVE AND RESET RIPRAP	CY	54	
907-304-F002	ALTERNATIVE ITEMS SIZE 610 CRUSHED STONE BASE	TON	13,514	
907-304-F003	OR 3/4" AND DOWN CRUSHED STONE BASE	TON	13,514	
907-304-F004	OR SIZE 825B CRUSHED STONE BASE	TON	13,514	

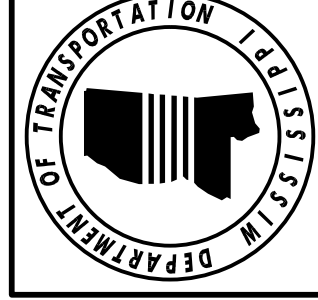
- ① ROUNDED TO NEAREST 50 WHEN INCREASED BY 25 PERCENT
- ② BRIDGE NO. 5.5 AT STA 56+87
SPANS: 2@19', 1@40', 2@19'
- BRIDGE NO. 8.5 AT STA 218+28
SPANS: 5@19'
- BRIDGE NO. 12.3 AT STA 413+11
SPANS: 2@19', 1@40', 2@19'
- BRIDGE NO. 13.3 AT STA 467+22
SPANS: 3@19'

- ③ INCLUDES 366 TONS FOR EROSION CONTROL
4,761 TONS FOR ROADWAY SHOULDERS;
1,597 TONS FOR DRIVEWAYS;
6,790 TONS FOR ROADWAY BASE WITH
THE 20% SHRINKAGE FACTOR APPLIED.
- ④ UPON COMMENCEMENT OF REMAINING OF
THE DETOUR ROAD, THE CONTRACTOR WILL
LOAD, HAUL, AND DELIVER THE CRUSHED
STONE USED FOR BASE TO THE CLEVELAND
MAINTENANCE BUILDING. PAYMENT TO BE
MADE AS EXCESS EXCAVATION.

- △ ⑤ REMOVE EXISTING BRIDGE PILES IN
CONFLICT (SEE BRIDGE PLANS FOR
MORE DETAIL). ALSO INCLUDES 4 TANKS
SADDLES AND 1 CONCRETE SLAB. SEE NTB
ENTITLED "REMOVAL OF OBSTRUCTIONS"

5/11/17	BRIDGE END QUANTITIES
4/18/17	QUANTITY REVISIONS
M/M	REVISION
BY	

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES
 COUNTY: BOLIVAR
 PROJ. NUM.: STP/EXB-0610-00(017)
 WORKING NUMBER
SQS-1
 SHEET NUMBER
9



ADDENDUM

SUMMARY OF QUANTITIES (SHEET 2)

STATE	PROJECT NO.
MISS.	STP/EXB-0610-00(017)

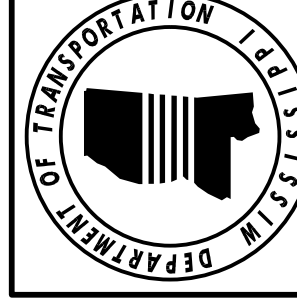
PAY ITEM NO.	PAY ITEM	UNIT	PRELIMINARY	FINAL
907-403-A017	9.5-MM, ST, ASPHALT PAVEMENT	TON	2,726	
907-403-A018	12.5-MM, ST, ASPHALT PAVEMENT	TON	1,205	
907-403-A019	19-MM, ST, ASPHALT PAVEMENT	TON	3,151	
907-406-A001	COLD MILLING OF BITUMINOUS PAVEMENT, ALL DEPTHS	SY	4,267	
907-407-A001	ASPHALT FOR TACK COAT	GAL	2,342	
502-A001	REINFORCED CEMENT CONCRETE BRIDGE END PAVEMENT	SY	472	
907-601-A001	CLASS "B" STRUCTURAL CONCRETE	CY	771	
907-601-B003	CLASS "B" STRUCTURAL CONCRETE, MINOR STRUCTURES	CY	4	
602-A001	REINFORCING STEEL	LBS	153,933	
907-603-ALT01	18" TYPE A ALTERNATE PIPE	LF	256	
907-603-ALT02	24" TYPE A ALTERNATE PIPE	LF	27	
603-CA002	18" REINFORCED CONCRETE PIPE, CLASS III	LF	392	
603-CA003	24" REINFORCED CONCRETE PIPE, CLASS III	LF	228	
603-CA004	30" REINFORCED CONCRETE PIPE, CLASS III	LF	24	
603-CA005	36" REINFORCED CONCRETE PIPE, CLASS III	LF	126	
603-CA006	42" REINFORCED CONCRETE PIPE, CLASS III	LF	76	
603-CA011	72" REINFORCED CONCRETE PIPE, CLASS III	LF	72	
603-CB002	24" REINFORCED CONCRETE END SECTION	EA	2	
603-CB004	36" REINFORCED CONCRETE END SECTION	EA	2	
603-CB005	42" REINFORCED CONCRETE END SECTION	EA	2	
603-SB040	18" BRANCH CONNECTIONS, STUB INTO BOX CULVERT	EA	1	
605-AA003	GEOTEXTILE FOR SUBSURFACE DRAINAGE, TYPE III	SY	123	
907-605-O003	4" PERFORATED SEWER PIPE FOR UNDERDRAINS, SDR 23.5	LF	221	
907-605-P003	4" NON-PERFORATED SEWER PIPE FOR UNDERDRAINS, SDR 23.5	LF	30	
605-W001	FILTER MATERIAL FOR COMBINATION STORM DRAIN AND/OR UNDERDRAINS, TYPE A, FM	CY	8	
605-W002	ALTERNATIVE ITEMS FILTER MATERIAL FOR COMBINATION STORM DRAIN AND/OR UNDERDRAINS, TYPE B, FM	CY	139	
605-W003	OR FILTER MATERIAL FOR COMBINATION STORM DRAIN AND/OR UNDERDRAINS, TYPE C, FM	CY	139	
606-B005	GUARD RAIL, CLASS A, TYPE 1, "W" BEAM	LF	1,275	
606-C003	GUARD RAIL, CABLE ANCHOR, TYPE 1	EA	8	
606-D012	GUARD RAIL, BRIDGE END SECTION, TYPE I	EA	12	
606-E001	GUARD RAIL, TERMINAL END SECTION	EA	12	
615-A018	CONCRETE BRIDGE END BARRIER, 33.5"	LF	120	
907-617-A001	RIGHT-OF-WAY MARKER	EA	46	
617-B001	RIGHT-OF-WAY MARKERS REMOVED AND RESET	EA	2	
907-618-A001	MAINTENANCE OF TRAFFIC	LS	100%	
907-618-C001	CONSTRUCTION AND REMOVAL OF DETOUR BRIDGE - BRIDGE @ STA. 16+65	LS	100%	
907-618-C001	CONSTRUCTION AND REMOVAL OF DETOUR BRIDGE - BRIDGE @ STA. 18+18	LS	100%	
907-618-C001	CONSTRUCTION AND REMOVAL OF DETOUR BRIDGE - BRIDGE @ STA. 12+52	LS	100%	
907-618-E001	DETOUR BRIDGE PILING	LF	5,126	
907-618-F003	DETOUR BRIDGE PDA TEST PILE	LS	100%	
619-A1003	TEMPORARY TRAFFIC STRIPE, CONTINUOUS WHITE, PAINT	LF	24,094	
619-A1005	TEMPORARY TRAFFIC STRIPE, CONTINUOUS WHITE, TYPE 1 OR 2 TAPE	LF	1,372	
619-A2003	TEMPORARY TRAFFIC STRIPE, CONTINUOUS YELLOW, PAINT	LF	12,915	
619-A4002	TEMPORARY TRAFFIC STRIPE, SKIP YELLOW, PAINT	LF	5,669	
619-A4003	TEMPORARY TRAFFIC STRIPE, SKIP YELLOW, TYPE 1 OR 2 TAPE	LF	686	
619-A6001	TEMPORARY TRAFFIC STRIPE, LEGEND	LF	84	

- ① INCLUDES 2,067 TONS FOR ROADWAYS AND 57 TONS FOR DRIVEWAYS
- ② INCLUDES 854 TONS FOR ROADWAYS AND 76 TONS FOR DRIVEWAYS
- ③ INCLUDES 2309 GALS. FOR ROADWAYS AND 33 GALS. FOR DRIVEWAYS
- ④ INCLUDES BRIDGE END SAW AND SEAL JOINT
- ⑤ ZINC COATED CORRUGATED METAL PIPE, 16 GAUGE 2 $\frac{3}{4}$ x $\frac{1}{2}$ " OR CORRUGATED ALUMINUM COATED CORRUGATED METAL PIPE, 16 GAUGE 2 $\frac{3}{4}$ x $\frac{1}{2}$ " OR CORRUGATED POLYETHYLENE PIPE OR RCP CLASS III PIPE
- ⑥ ALL PIPE, EXCLUDING TEMPORARY USED FOR DETOURS, SHALL BE REINFORCED CONCRETE PIPE.

5/11/17	BRIDGE END QUANTITIES	
4/18/17	QUANTITY REVISIONS	
M/M	REVISION	
BY		

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES

COUNTY: BOLIVAR
 PROJ. NUM.: STP/EXB-0610-00(017)
 WORKING NUMBER
SQS-2
 SHEET NUMBER
10



ADDENDUM

SUMMARY OF QUANTITIES (SHEET 3)

PAY ITEM NO.	PAY ITEM	UNIT	PRELIMINARY	FINAL
619-C7001	TWO-WAY YELLOW REFLECTIVE HIGH PERFORMANCE RAISED MARKER	EA	325	
619-D1001	STANDARD ROADSIDE CONSTRUCTION SIGNS, LESS THAN 10 SQUARE FEET	SF	320	
619-D2001	STANDARD ROADSIDE CONSTRUCTION SIGNS, 10 SQUARE FEET OR MORE	SF	1,014	
619-F1001	CONCRETE MEDIAN BARRIER, PRECAST	LF	200	
619-F3004	DELINEATORS, GUARD RAIL, WHITE	EA	52	
619-G4001	BARRICADES, TYPE III, SINGLE FACED	LF	480	
619-G5001	FREE STANDING PLASTIC DRUMS	EA	91	
619-G7001	WARNING LIGHTS, TYPE "B"	EA	16	
619-K1001	INSTALLATION AND REMOVAL OF GUARD RAIL, TYPE I, CLASS A	LF	663	
619-K4001	INSTALLATION AND REMOVAL OF GUARDRAIL, TERMINAL END SECTION	EA	16	
620-A001	MOBILIZATION	LS	100%	
907-626-C007	6" THERMOPLASTIC DOUBLE DROP EDGE STRIPE, CONTINUOUS WHITE	LF	11,428	
907-626-D005	6" THERMOPLASTIC DOUBLE DROP TRAFFIC STRIPE, SKIP YELLOW	LF	5,714	
907-626-E005	6" THERMOPLASTIC DOUBLE DROP TRAFFIC STRIPE, CONTINUOUS YELLOW	LF	659	
907-626-H009	THERMOPLASTIC DOUBLE DROP LEGEND, WHITE	LF	112	
907-626-J003	6" INVERTED PROFILE THERMOPLASTIC TRAFFIC STRIPE, CONTINUOUS WHITE	LF	1,360	
907-626-K003	6" INVERTED PROFILE THERMOPLASTIC TRAFFIC STRIPE, SKIP YELLOW	LF	680	
628-J002	6" HIGH PERFORMANCE COLD PLASTIC TRAFFIC STRIPE, CONTINUOUS WHITE	LF	1,360	
628-L002	6" HIGH PERFORMANCE COLD PLASTIC TRAFFIC STRIPE, SKIP YELLOW	LF	680	
627-J001	TWO-WAY CLEAR REFLECTIVE HIGH PERFORMANCE RAISED MARKERS	EA	33	
627-L001	TWO-WAY YELLOW REFLECTIVE HIGH PERFORMANCE RAISED MARKERS	EA	80	
630-A002	STANDARD ROADSIDE SIGNS, SHEET ALUMINUM, 0.125" THICKNESS	SF	72	
630-F001	DELINEATORS, GUARD RAIL, WHITE	EA	60	
907-630-C003	STEEL U-SECTION POSTS, 3.0 LB/FT	LF	120	
630-G001	TYPE 3 OBJECT MARKERS, OM-3R, POST MOUNTED	EA	10	
630-G003	TYPE 3 OBJECT MARKERS, OM-3L, POST MOUNTED	EA	10	
907-699-A002	ROADWAY CONSTRUCTION STAKES	LS	100%	
815-A009	LOOSE RIPRAP, SIZE 300	TON	1,380	
815-E001	GEOTEXTILE UNDER RIPRAP	SY	2,556	
907-832-PP001	CONCRETE MAT	SY	4,355	

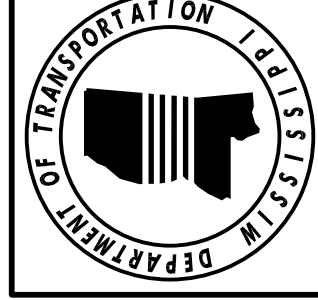
5/12/17	QUANTITY REVISIONS	
4/18/17	QUANTITY REVISIONS	
DATE	REVISION	
BY		

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES

COUNTY: BOLIVAR
 PROJ. NUM.: STP/EXB-0610-00(017)

WORKING NUMBER
SQS-3

FILENAME: _____ DATE: 03/08/17
 DESIGN TEAM: _____ PICKERING: _____ CHECKED: _____ SHEET NUMBER
11



ADDENDUM

STATE	PROJECT NO.
MISS.	STP/EXB-0610-00(017)

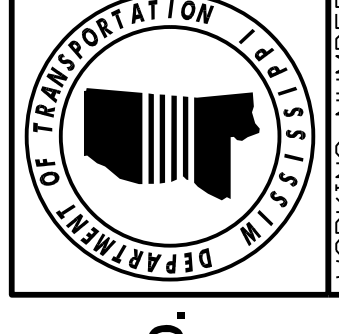
SUMMARY OF PAVEMENT MARKINGS

WK SH NO.	STATION TO STATION		DOUBLE DROP THERMO PLASTIC ▲						HIGH PERFORMANCE COLD PLASTIC OR INVERTED PROFILE THERMOPLASTIC						MARKERS				REMARKS		
			CONTINUOUS			LEGEND			SKIP			CONTINUOUS			SKIP			CLEAR		YELLOW	
			WHITE	YELLOW	YELLOW	WHITE	YELLOW	YELLOW	WHITE	YELLOW	YELLOW	WHITE	YELLOW	YELLOW	WHITE	YELLOW	YELLOW			1 WAY	2 WAY
			LF	LF	LF	LF	SF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EA	EA		EA	
PMD-1	49+50	66+77	2,974					1,487				480						22			
PMD-2	210+50	226+68	2,796	112			1,398				440					33		20			
PMD-3	405+00	421+69	2,898	500			1,449				440							21			
PMD-4	461+00	474+80	2,760				1,380				0							17			
TOTAL			11,428	659	112	112	5,714	LF	LF	SF	LF	LF	LF	LF	LF	EA	EA	EA	EA		

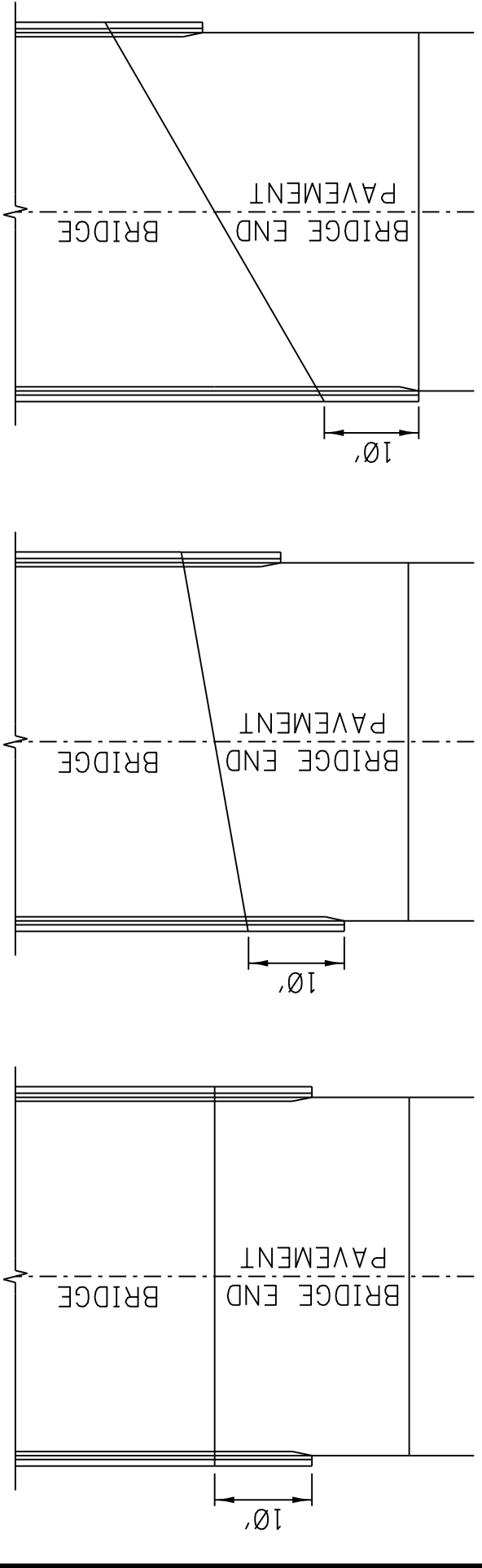
BRIDGE END PAVEMENT REQUIRED

WK. NO.	BRIDGE ABUT. STATION	W ₁	W ₂	ANGLE "Z"	33.5" RAIL	PAV'MT.	W _B	W	A	B	TYPE "A" FILTER MATERIAL	TYPE "B" or "C" FILTER MATERIAL	4" PERFORATED DRAIN PIPE	4" NON-PERFORATED DRAIN PIPE	GEOTEXTILE TYPE III FABRIC	EDGE DRAIN OUTLET	REMARKS
3	56+23	17.00	17.00	0.00	20	78.70	34.00	36.83	20.00	20.00	1.36	23.19	36.83	5.00	20.46	0.726	
3	58+63	17.00	17.00	0.00	20	78.70	34.00	36.83	20.00	20.00	1.36	23.19	36.83	5.00	20.46	0.726	
4	217+66	17.00	17.00	0.00	20	78.70	34.00	36.83	20.00	20.00	1.36	23.19	36.83	5.00	20.46	0.726	
4	219+86	17.00	17.00	0.00	20	78.70	34.00	36.83	20.00	20.00	1.36	23.19	36.83	5.00	20.46	0.726	
5	412+59	17.00	17.00	0.00	20	78.70	34.00	36.83	20.00	20.00	1.36	23.19	36.83	5.00	20.46	0.726	
5	414+79	17.00	17.00	0.00	20	78.70	34.00	36.83	20.00	20.00	1.36	23.19	36.83	5.00	20.46	0.726	
TOTAL					120	472					8	139	221	30	123	4	
					LIN. FT.	SQ. YDS.			CU. YDS.	LIN. FT.	CU. YDS.	LIN. FT.	SQ. YDS.	CU. YDS.	SQ. YDS.	CU. YDS.	

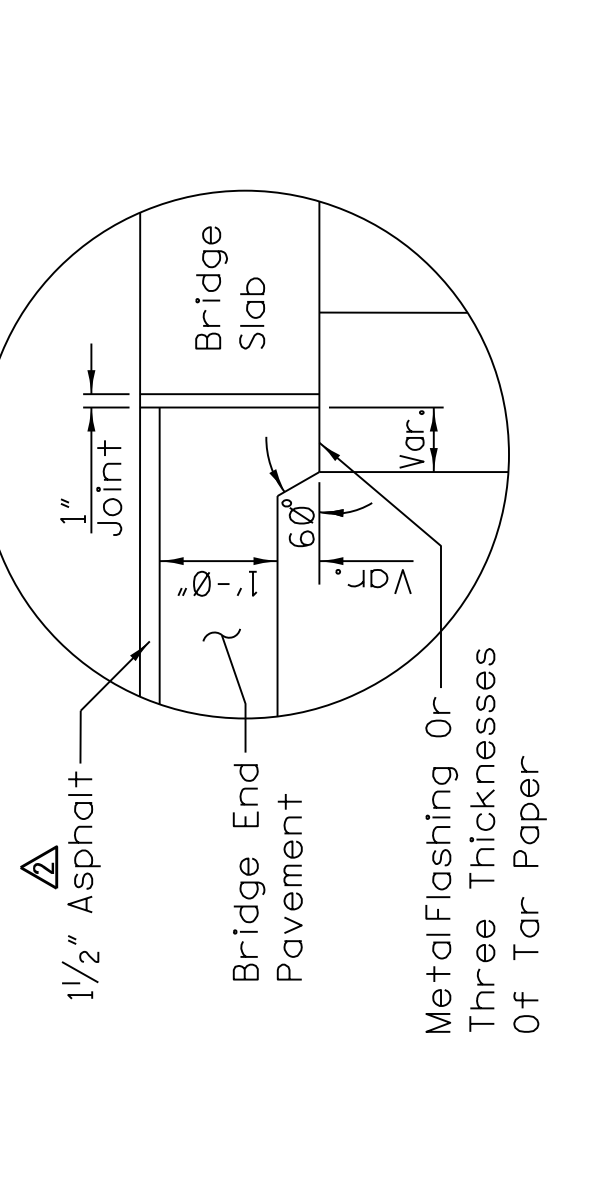
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ESTIMATED QUANTITIES
PAVEMENT MARKINGS
BRIDGE END PAVEMENT REQ'D.
COUNTY: BOLIVAR
PROJ. NUM.: STP/EXB-0610-00(017)
WORKING NUMBER EQ-4
FILENAME: _____
DESIGN TEAM: _____
PICKERING: _____
CHECKED: _____
DATE: 03/08/17
SHEET NUMBER 16



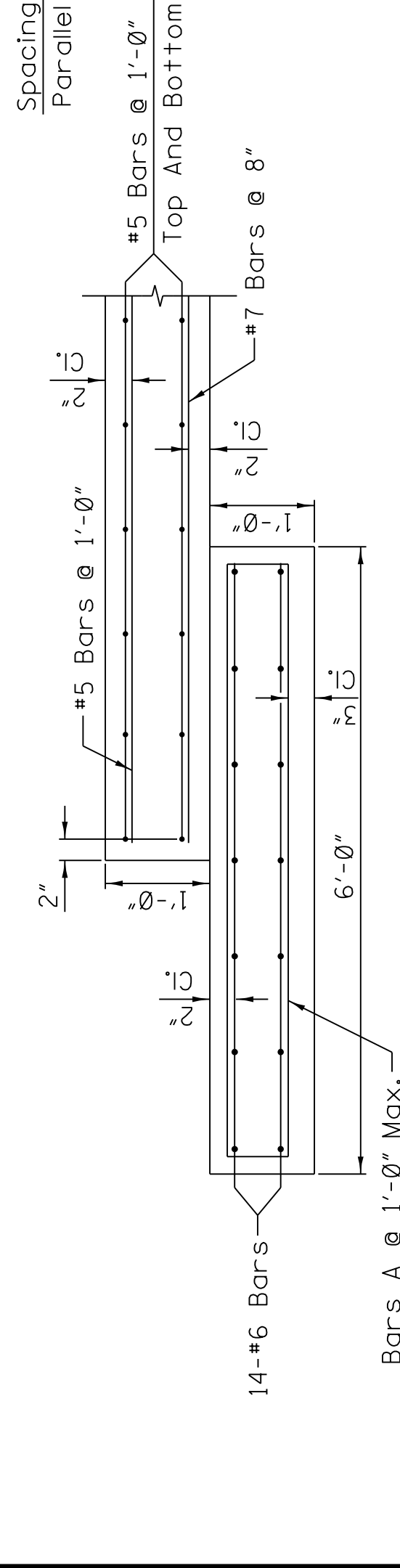
PROJECT NO.	STP/EXB-0610-00(017)
STATE	MISS.



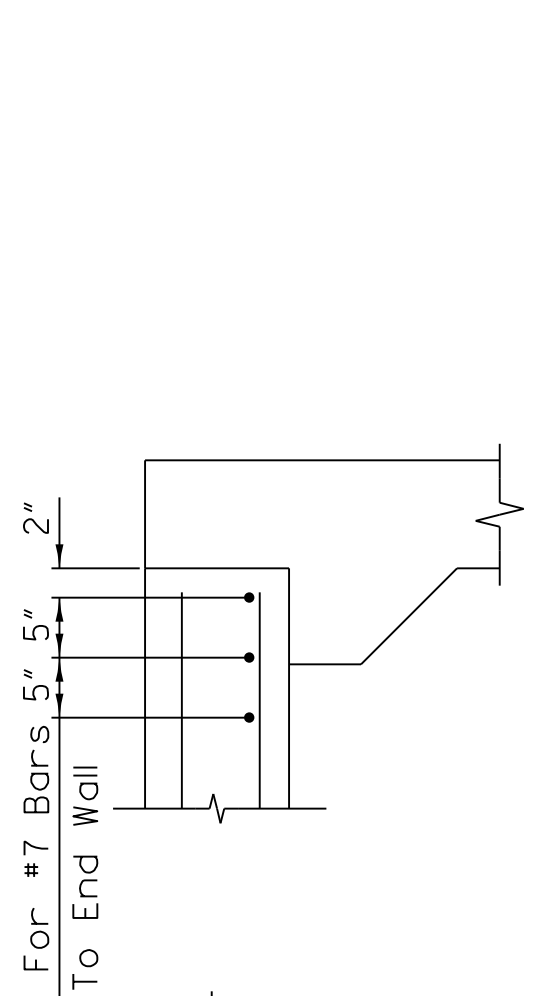
BRIDGE WITH NO SKEW
BRIDGE WITH SKEW AND 'A' MORE THAN 10'
BRIDGE WITH SKEW AND 'A' EQUAL TO 10'



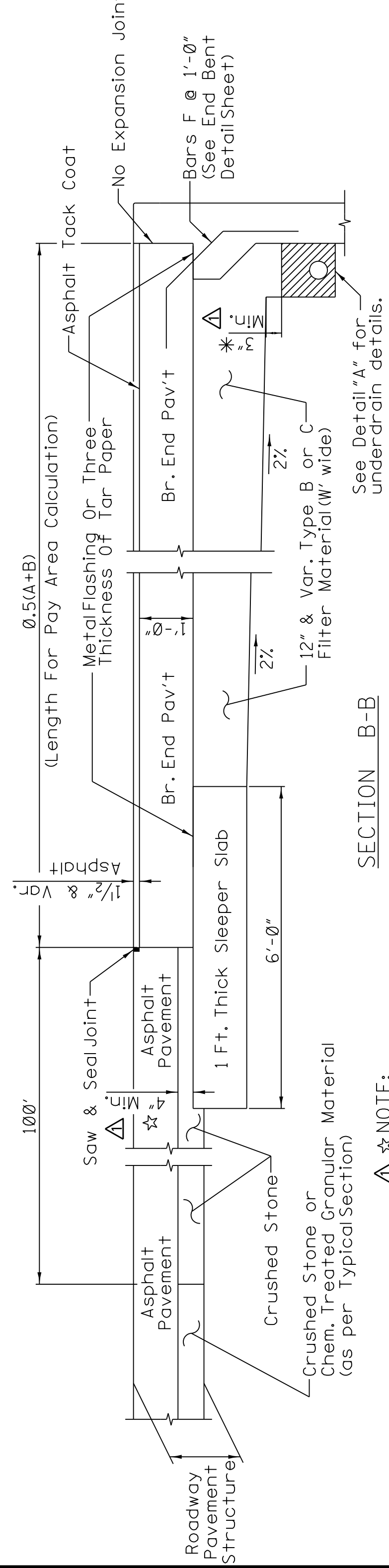
DETAIL SHOWING METHOD OF SEATING BRIDGE END PAVEMENT ON BRIDGES WITH NO PAVING BRACKET



SECTION C-C

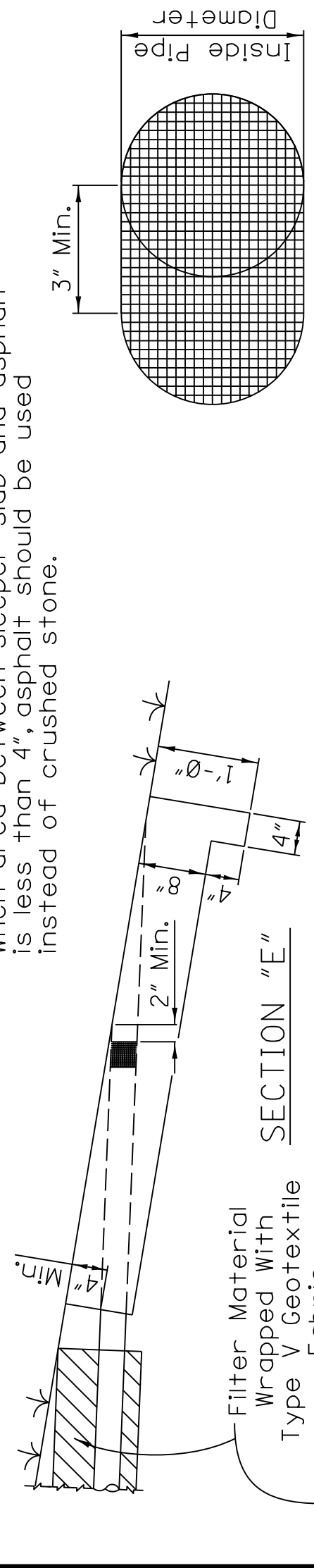


SECTION D-D

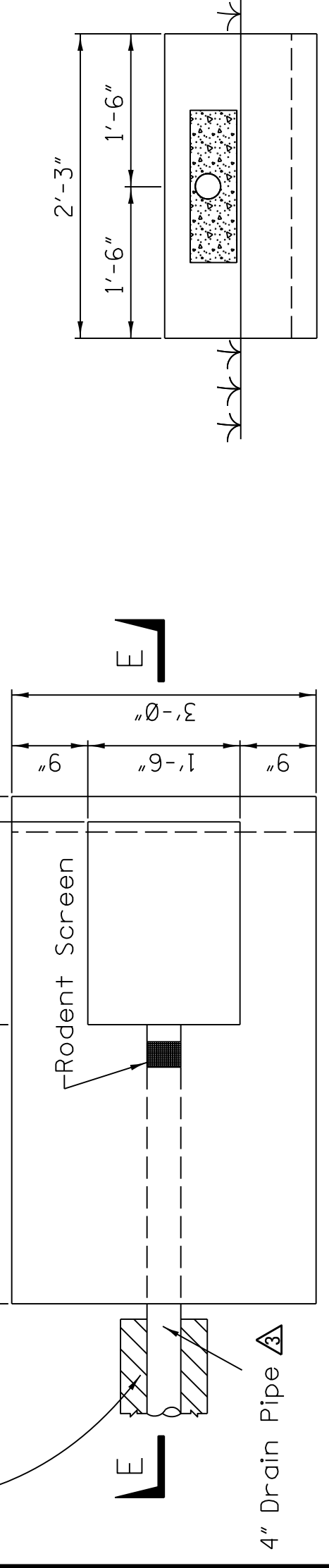


SECTION B-B

★ NOTE: When area between sleeper slab and asphalt is less than 4", asphalt should be used instead of crushed stone.

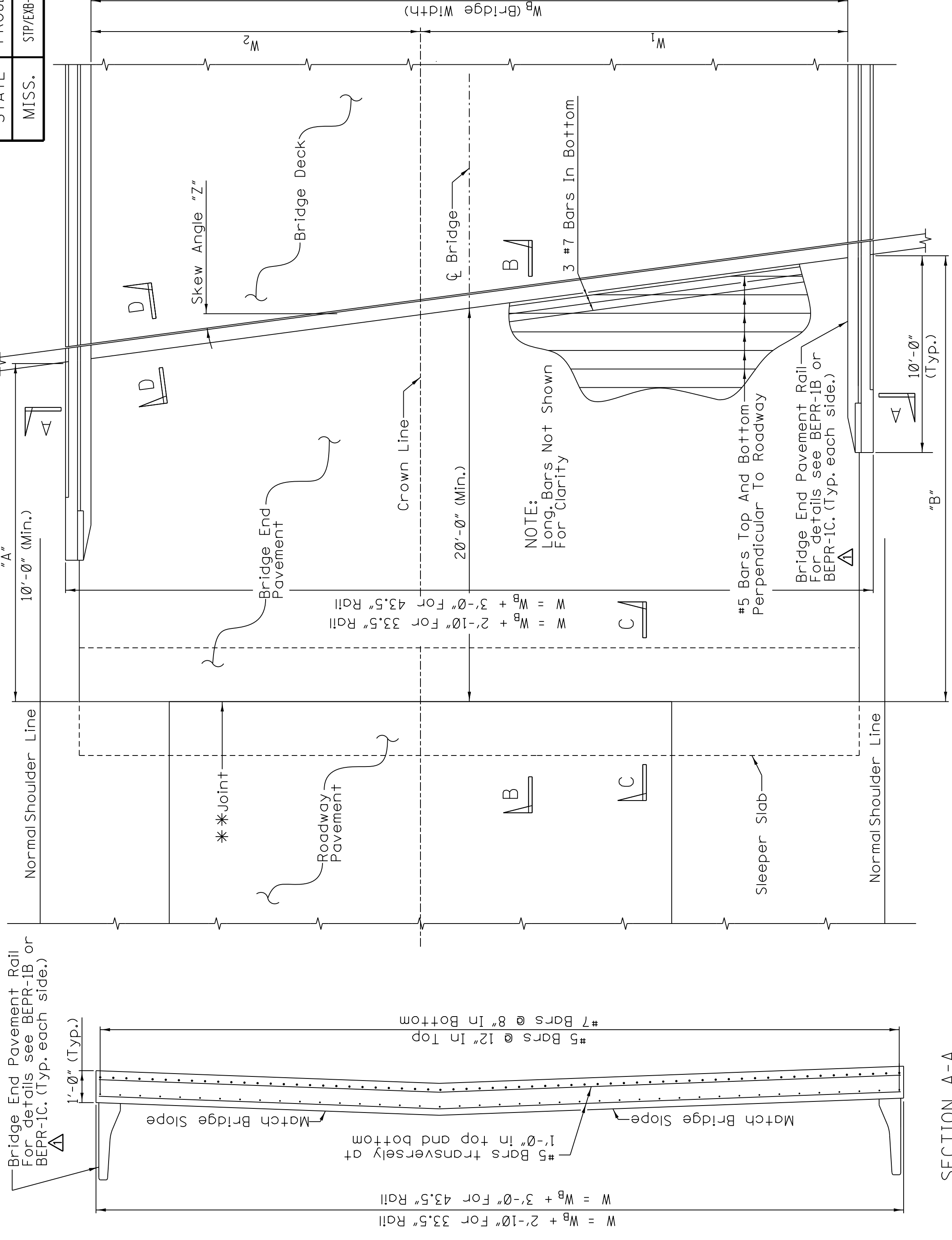


DETAIL OF RODENT SCREEN



OUTLET APRON DETAIL

- NOTES:
- 0.363 C.Y. Class "C" concrete required for apron.
 - Small animal guards shall be required on all exposed pipe openings by the end of the work day installed.
 - 4" perforated drain pipe to be installed under the roadway and 2' outside of the shoulder. 4" non-perforated drain pipe to be installed for the remainder to the outlet apron.
 - Underdrain outlets shall be required on both sides of the roadway in normal crown sections and only on the low side of super-elevated sections.

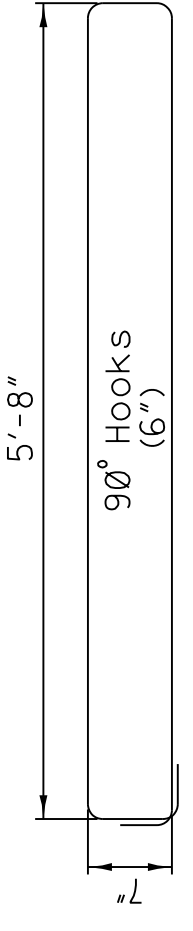


PLAN AT BRIDGE END

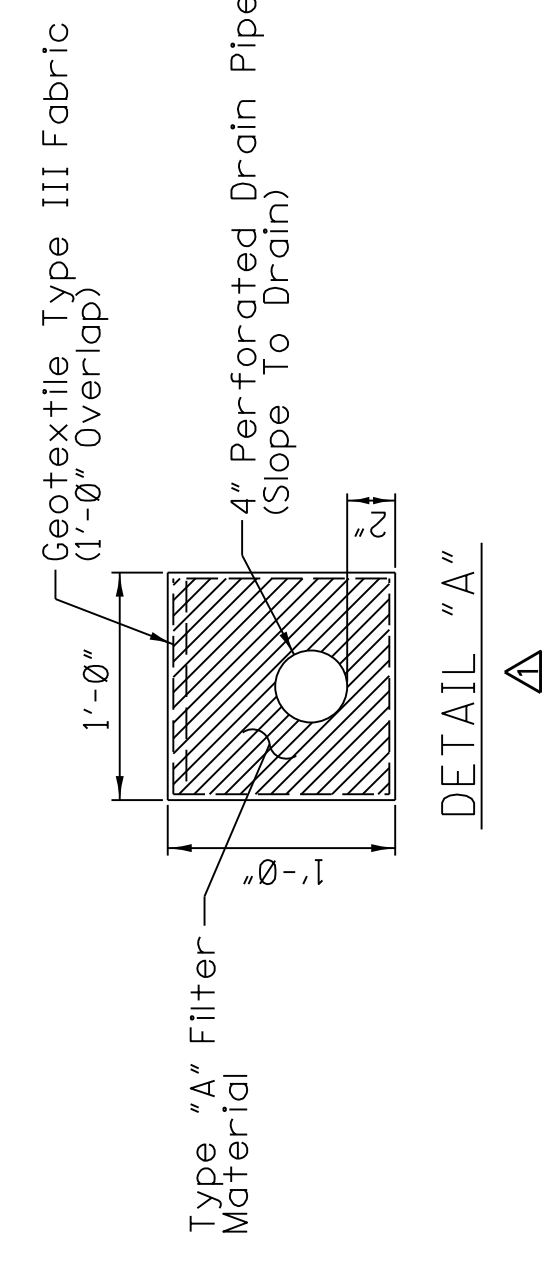
- GENERAL NOTES:
- If Bridge End Pavement is constructed in more than one section, longitudinal construction joints with tie bars shall be used. Tie bars shall be #5 bars, 2'-6" long and spaced 2'-6" o.c. Such construction shall be used where indicated on plans.
 - Dimensions "A" & "B" are based on a mid-length of 20 feet. Except in no case shall "A" be less than 10'-0". "W", "W₁", "W₂", "A", "B", skew angle "Z" and quantities.
 - See quantity section of plans for dimensions "W", "W₁", "W₂", "A", "B", skew angle "Z" and quantities.
 - Reinforcement (deformed) may be furnished full length or may be spliced. If bars are spliced, they shall be spliced not less than 30 diameters.
 - If top lift is greater than 1.5", the lift shall be transitioned to 1.5" across the length of the bridge end slab.
 - Outlets shall be required on both sides in normal crown and only on the low side of super-elevation.
 - The bridge end pavement pay item includes Bridge End Pavement, Sleeper Slab and Metal Flashing. All other items shown on this sheet will be paid as indicated elsewhere in the plans.
 - Class "B" concrete required for sleeper slab and bridge end pavement. Class "AA" concrete may be used with approval of the engineer (no cost adjustment will be made).

* NOTE:

- Premolded Expansion Joint Sealed With Poured Joint Filler (Doweled). This Joint Required Only If Roadway Pavement Is Concrete.



BAR BENDING DETAILS
Dimensions Are Out To Out



DETAIL "A"

DATE	REVISION	BY
4/25/17	REV. NOTES AND DETAILS	MD
1/7/16	REV. NOTES AND DETAILS	MD
2/12/15	REV. NOTES AND DETAILS	MD

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

BRIDGE END PAVEMENT
(WITH RAIL, OVERLAY,
AND SLEEPER SLAB)

COUNTY: BOLLIVAR

PROJ. NUM.: STP/EXB-0610-00(017)

FILENAME: BRIDGE_END_PAVEMENT

DESIGN TEAM

CHECKED _____ DATE _____

WORKING NUMBER
BEPR-SS

SHEET NUMBER
69

ADDENDUM

STATE	PROJECT NO.
MISS.	STP/EXB-0610-00(017)

DESCRIPTION OF SHEETS SPECIAL DESIGN SHEETS - BRIDGE DRAWINGS

WORKING SHEET NUMBER

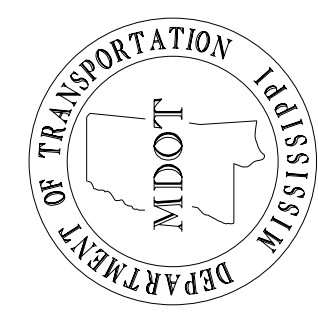
BRIDGE DRAWINGS

SHEET NUMBER

<p><i>DETAILED INDEX (BRIDGE)</i> <i>SUMMARY OF QUANTITIES (BRIDGE)</i></p> <p>BRIDGE A - S.R. 448 ACROSS CLEAR CREEK BRIDGE AT STA. 56+22.21</p> <p><i>ESTIMATED QUANTITIES & GENERAL NOTES</i> <i>LAYOUT ELEVATION</i> <i>FOUNDATION PLAN</i> <i>END BENT NO. 1 & 6 DETAILS</i> <i>END BENT DETAILS</i> <i>INT. BENTS NO. 2 & 5 DETAILS</i> <i>INT. BENT NO. 3 DETAILS</i> <i>INT. BENT NO. 4 DETAILS</i> <i>40 FT. SPAN DETAILS</i> <i>40 FT. SPAN DETAILS (TYR. SECT.)</i> <i>80 FT. SPAN DETAILS</i> <i>80 FT. SPAN DETAILS (TYR. SECT.)</i> <i>MISC. SPAN DETAILS</i> <i>40 FT. BEAM DETAILS</i> <i>80 FT. BEAM DETAILS</i> <i>GENERALIZED SOIL PROFILE</i></p>	<p>DI-BR-1 50-BR-1</p> <p>A1 OF 16 A2 OF 16 A3 OF 16 A4 OF 16 A5 OF 16 A6 OF 16 A7 OF 16 A8 OF 16 A9 OF 16 A10 OF 16 A11 OF 16 A12 OF 16 A13 OF 16 A14 OF 16 A15 OF 16 A16 OF 16</p>	<p>8001 8002</p> <p>8003 8004 8005 8006 8007 8008 8009 8010 8011 8012 8013 8014 8015 8016 8017 8018</p>	<p><i>BRIDGE C - S.R. 448 ACROSS BOGUE HASTY BRIDGE AT STA. 412+57.88</i></p> <p><i>ESTIMATED QUANTITIES & GENERAL NOTES</i> <i>LAYOUT ELEVATION</i> <i>FOUNDATION PLAN</i> <i>END BENT NO. 1 & 5 DETAILS</i> <i>END BENT DETAILS</i> <i>INT. BENTS NO. 2 DETAILS</i> <i>INT. BENT NO. 3 DETAILS</i> <i>60 FT. SPANS 1 & 3 DETAILS</i> <i>60 FT. SPAN DETAILS (TYR. SECT.)</i> <i>100 FT. SPAN 2 DETAILS</i> <i>100 FT. SPAN DETAILS (TYR. SECT.)</i> <i>MISC. SPAN DETAILS</i> <i>60 FT. BEAM DETAILS</i> <i>100 FT. BEAM DETAILS</i> <i>GENERALIZED SOIL PROFILE</i></p> <p>DETOUR BRIDGES <i>BRIDGE @ APPROX. STA. 16+65.00</i> <i>BRIDGE @ APPROX. STA. 18+18.00</i> <i>BRIDGE @ APPROX. STA. 12+78.00</i></p>	<p>C1 OF 15 C2 OF 15 C3 OF 15 C4 OF 15 C5 OF 15 C6 OF 15 C7 OF 15 C8 OF 15 C9 OF 15 C10 OF 15 C11 OF 15 C12 OF 15 C13 OF 15 C14 OF 15 C15 OF 15</p> <p>DBA-1 DBB-1 DBC-1</p>	<p>8035 8036 8037 8038 8039 8040 8041 8042 8043 8044 8045 8046 8047 8048 8049</p>
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<p>BRIDGE B - S.R. 448 ACROSS STILL WATER BAYOU BRIDGE AT STA. 217+65.21</p> <p><i>ESTIMATED QUANTITIES & GENERAL NOTES</i> <i>LAYOUT ELEVATION</i> <i>FOUNDATION PLAN</i> <i>END BENT NO. 1 & 6 DETAILS</i> <i>END BENT DETAILS</i> <i>INT. BENTS NO. 2 & 5 DETAILS</i> <i>INT. BENT NO. 3 DETAILS</i> <i>INT. BENT NO. 4 DETAILS</i> <i>40 FT. SPAN DETAILS</i> <i>40 FT. SPAN DETAILS (TYR. SECT.)</i> <i>60 FT. SPAN DETAILS</i> <i>60 FT. SPAN DETAILS (TYR. SECT.)</i> <i>MISC. SPAN DETAILS</i> <i>40 FT. BEAM DETAILS</i> <i>60 FT. BEAM DETAILS</i> <i>GENERALIZED SOIL PROFILE</i></p>	<p>B1 OF 16 B2 OF 16 B3 OF 16 B4 OF 16 B5 OF 16 B6 OF 16 B7 OF 16 B8 OF 16 B9 OF 16 B10 OF 16 B11 OF 16 B12 OF 16 B13 OF 16 B14 OF 16 B15 OF 16 B16 OF 16</p>	<p>8019 8020 8021 8022 8023 8024 8025 8026 8027 8028 8029 8030 8031 8032 8033 8034</p>	<p><i>ORIGINAL PLANS FOR INFORMATION ONLY</i> <i>ORIGINAL CONSTRUCTION UNDER PROJECT NO. S-0610(114)</i></p> <p>BRIDGE EROSION CONTROL PLANS <i>BRIDGE @ STA. 56+22.21 (LAYOUT)</i> <i>BRIDGE @ STA. 56+22.21 (FOUNDATION)</i> <i>BRIDGE @ STA. 217+65.21 (LAYOUT)</i> <i>BRIDGE @ STA. 217+65.21 (FOUNDATION)</i> <i>BRIDGE @ STA. 412+57.88 (LAYOUT)</i> <i>BRIDGE @ STA. 412+57.88 (FOUNDATION)</i></p> <p>STANDARDS <i>RAILING DETAILS</i> <i>PRESTRESSED CONCRETE PILE DETAILS</i></p>	<p>8053 THRU 8055</p> <p>ECBR-1 ECBR-2 ECBR-3 ECBR-4 ECBR-5 ECBR-6</p> <p>RD-32 CP-1</p>	<p>8056 8057 8058 8059 8060 8061</p>
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BRIDGE DIVISION	
REVISIONS	
DATE	SHEET NO.
04/18/17	8002
04/18/17	8003, 8019, & 8035
05/11/17	8047, 8048

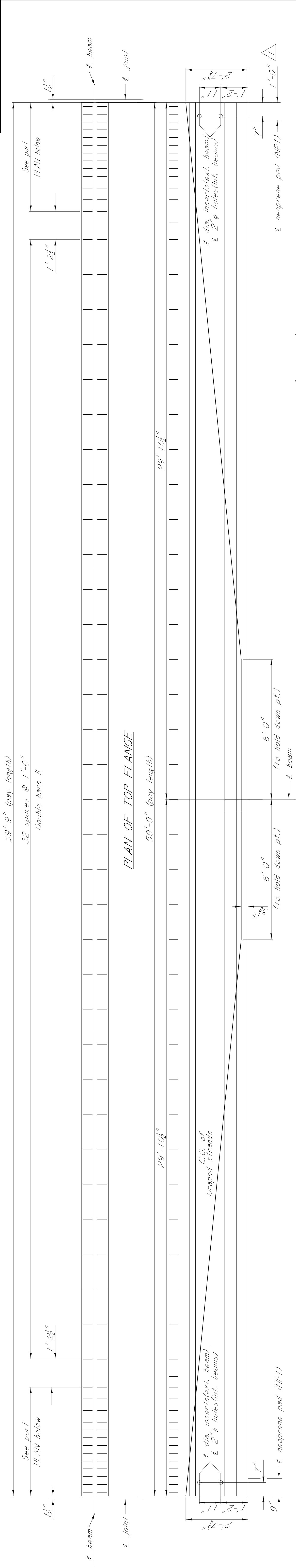


MISSISSIPPI DEPARTMENT OF TRANSPORTATION SR 448 BETWEEN BENTON AND SHAW	
DETAILED INDEX (BRIDGE)	
PROJECT 100444/301000 STP/EXB-0610-00(017)	
BOLIVAR COUNTY	
WORKING NUMBER DI-BR-1	WORKING NUMBER 8001

DESIGNER MAGGIE A. SUGGS-BRIGETY	CHECKER Spencer Yates
DATE 11/09/2016	ISSUE DATE 11/09/2016
DIRECTOR OF STRUCTURES JUSTIN WALKER, P.E.	DIRECTOR OF STRUCTURES JUSTIN WALKER, P.E.
DEP. DIR. OF STRUCTURES SCOTT WESTERFIELD, P.E.	DEP. DIR. OF STRUCTURES SCOTT WESTERFIELD, P.E.

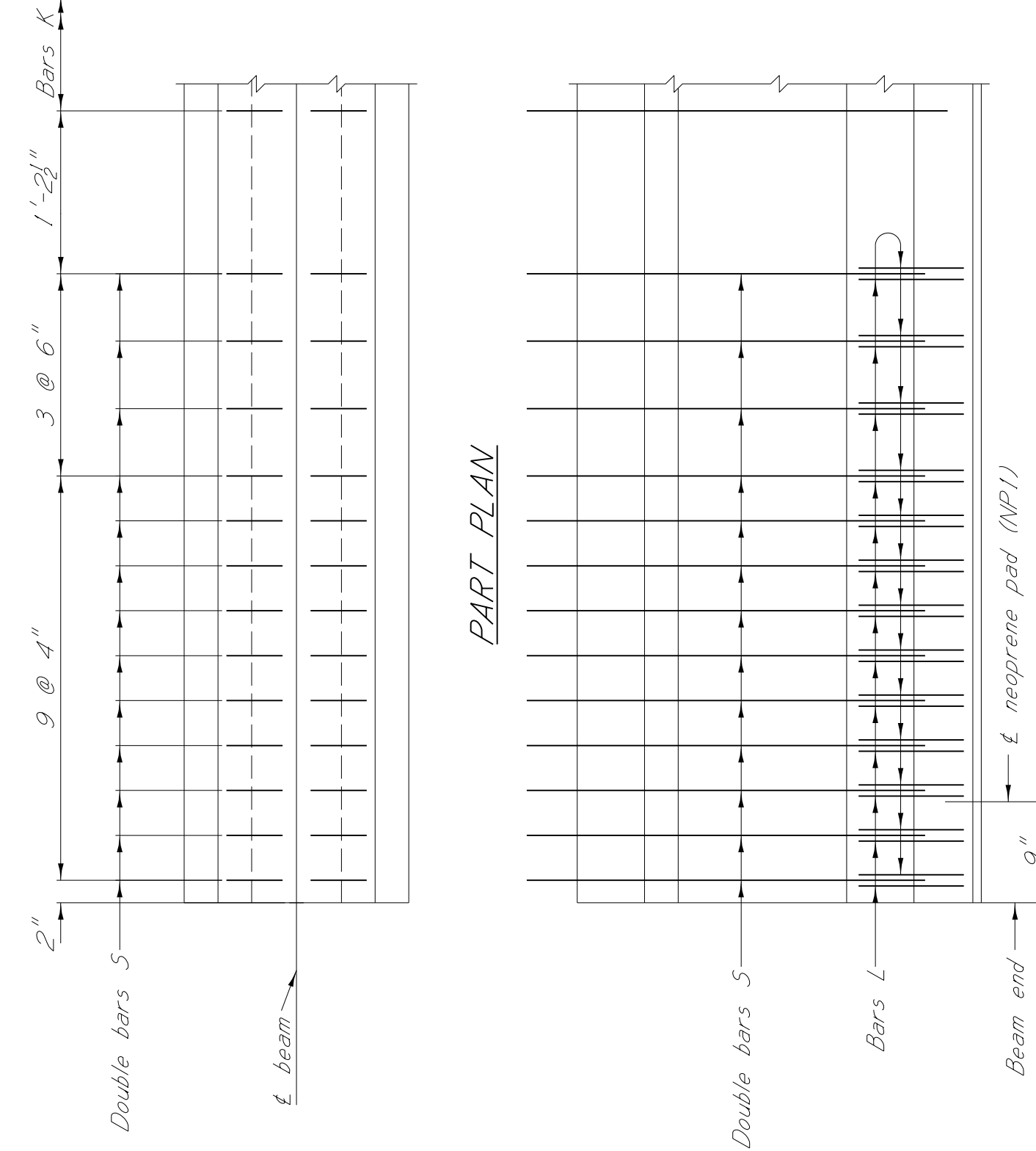
ADDENDUM

STATE	PROJECT NO.
MISS.	STP/EXB-0610-000171

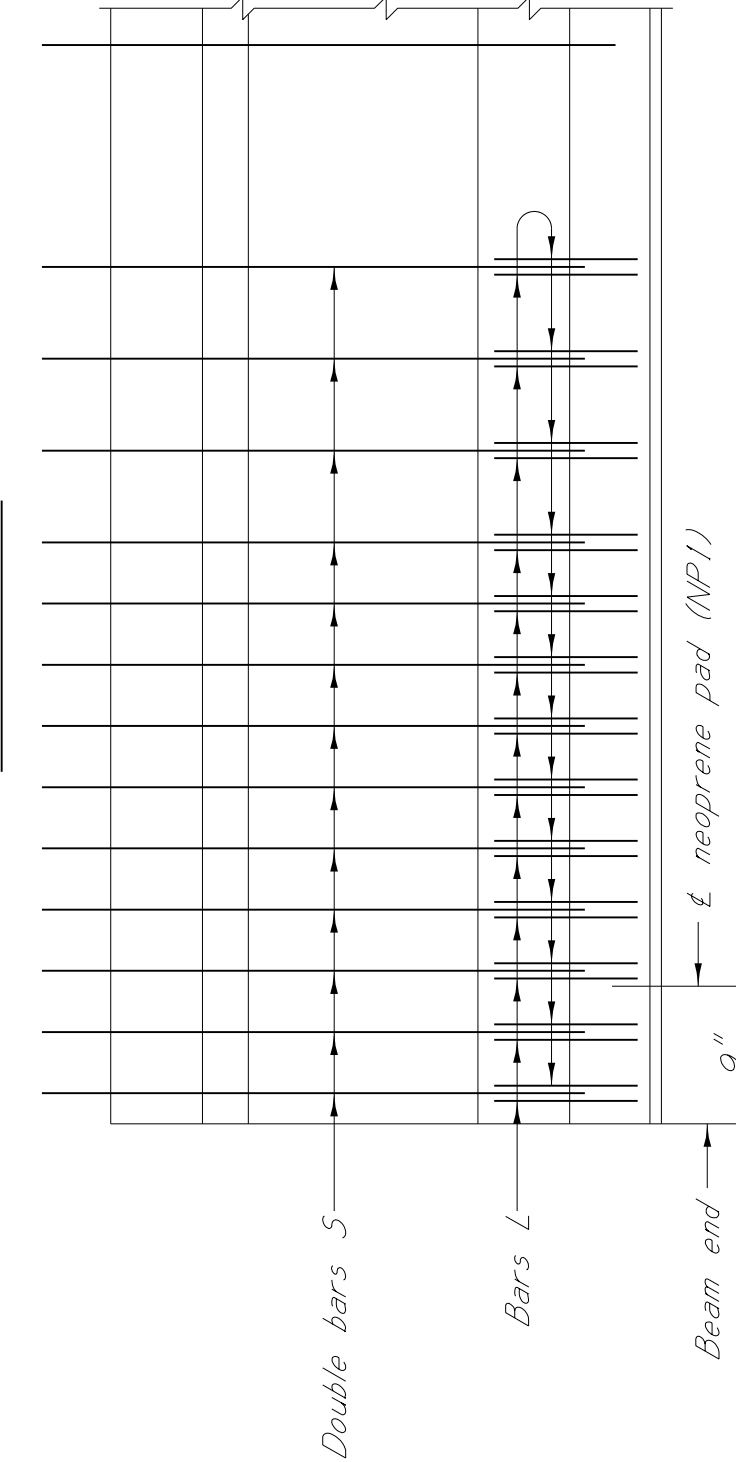


NOTE: Cut strands flush and weatherproof with limestone colored "Sonolastic" (Sonnborn Building Products), GC-9 Syntheticalk (Pecora Corp.), or approved equal, meeting the requirements of Federal Specification No. TT-S-00227E or TT-S-00230C, applied according to Manufacturer's directions.

ELEVATION

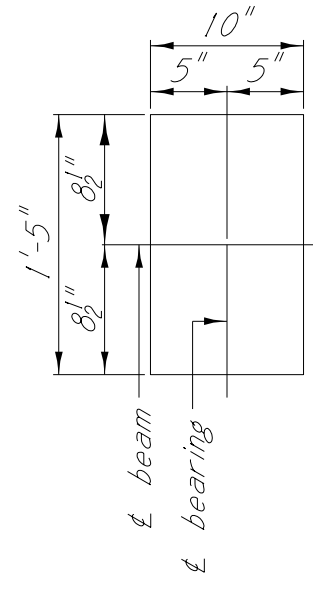


PART PLAN



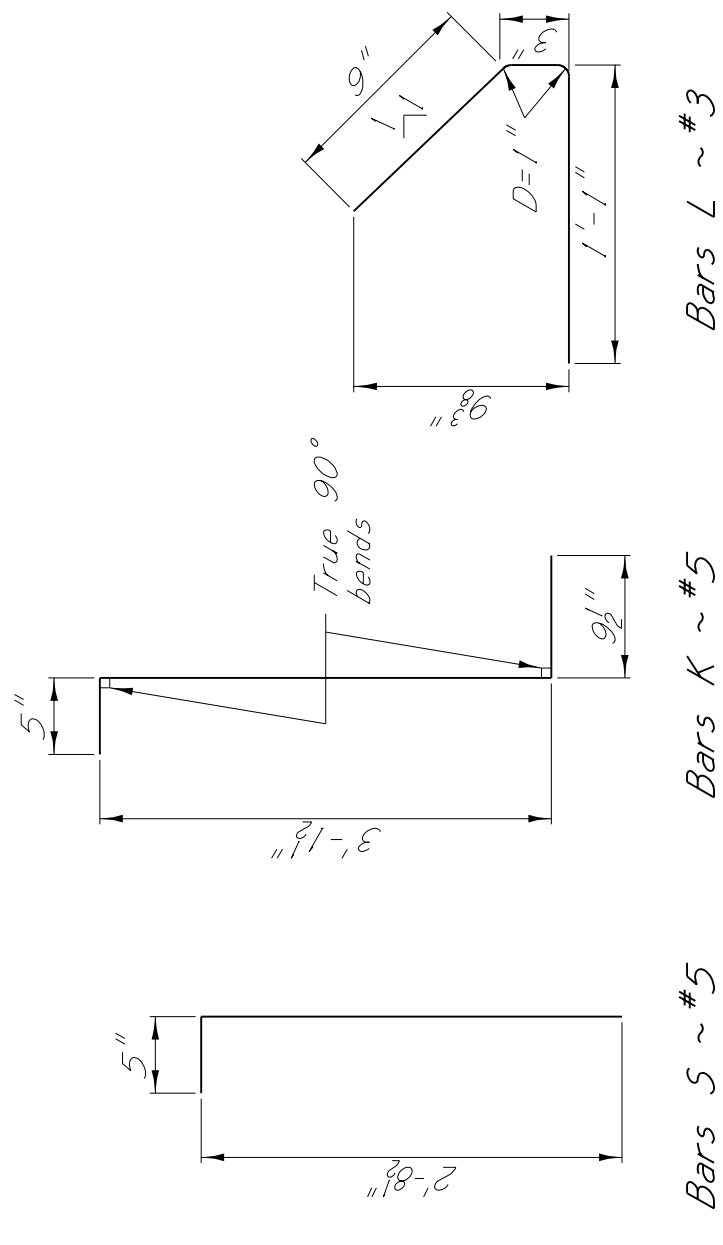
PART ELEVATION

Strands not shown for clarity



NEOPRENE PAD DETAILS (NPI1)

In no case shall neoprene pads be field cut. Bearing area on top of cap shall be cast smooth and true to grade.



BAR BENDING DETAILS

Dimensions are out to out

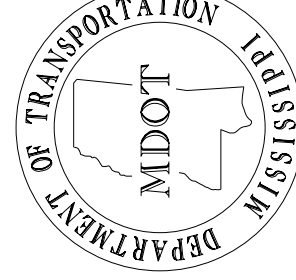
GENERAL NOTES:

Beams shall be manufactured in accordance with Mississippi Standard Specifications for Road & Bridge Construction, 2004. At approximately the time of initial set the tops of beams shall be rough floated. The entire tops of beams shall be scrubbed transversely with a coarse wire brush to remove all variance and produce a roughened surface for bonding slab. Other surfaces shall be finished to the specifications. Strands shall be finished to the specifications. The Director of Structures, State Bridge Engineer shall be notified if the camber of the beam is not within the limits shown in table. At transfer of tensioning load, the cylinder strength of the concrete shall be as shown in table.

DESIGN DATA

Unit stresses are in accordance with A.A.S.H.T.O., L.R.F.D., 2014
Stay-in-place metal deck forms 18 psf (between flanges)

BY	REVISIONS
PLW	REVISED DETAILS & DIMENSIONS
DATE	11/17
CHECKER	K. Krey, Beckman
ISSUE DATE	11/09/2016
DETAILER	Justin Board
DESIGNER	Naama A. Suga-Belkys
COUNTY	BOLIVAR
PROJECT	100444/301000
WORKING NUMBER	STP/EXB-0610-000171
SHEET NUMBER	C13 of C15
MISSISSIPPI DEPARTMENT OF TRANSPORTATION BRIDGE "C" AT STA. 412+57.88	
60 FT. BEAM DETAILS BEAM 60-1 (TYPE II+2)	
PROJECT 100444/301000	
STP/EXB-0610-000171	
BOLIVAR COUNTY	
8047	

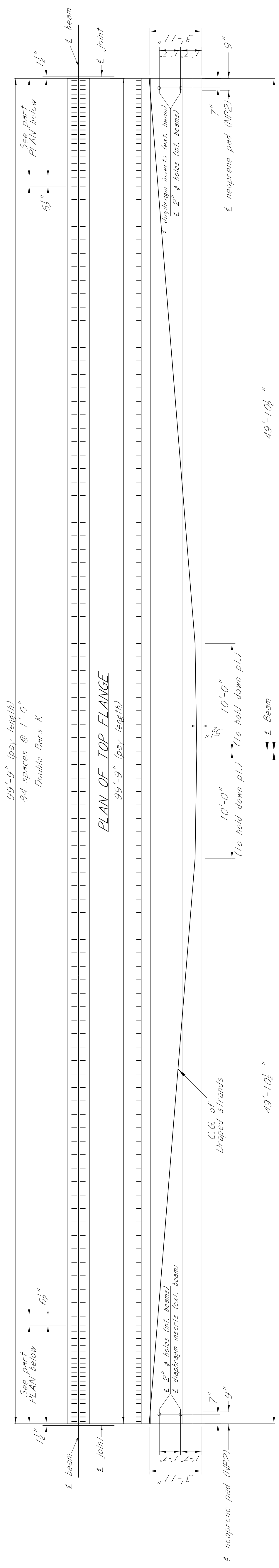


For deflection diagram, see Misc. Span Details per sheet no. C12.

PRESTRESS REQUIREMENTS

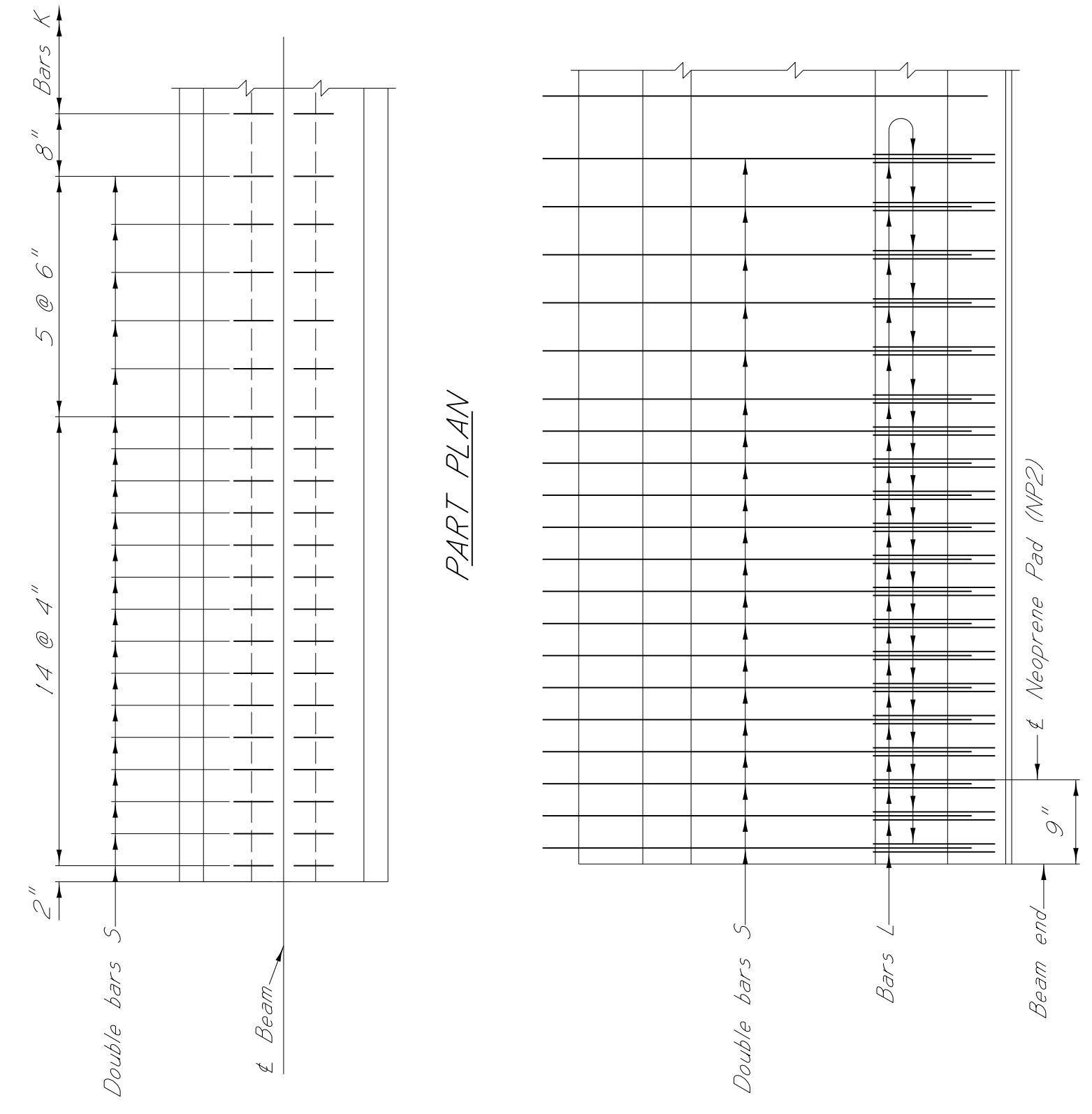
Strand Type	Minimum breaking strength lbs./strand	Initial tension lbs./strand	Required number and location of strands		Centroid for total number of strands (in.)		Distance from span to hold-down point	Camber limits	Deflection diagram			Minimum concrete strength at time of release (psi)			
			Total Number strands	Centroid (in.)	At span	At beam end			A	B	C				
1"Ø270 K-LR	41,300	30,990	18	4.21	4	3.50	31.75	4.06	10.33	6'-0"	0 to 2"	1.8"	1.8"	1.8"	4,200

ADDENDUM



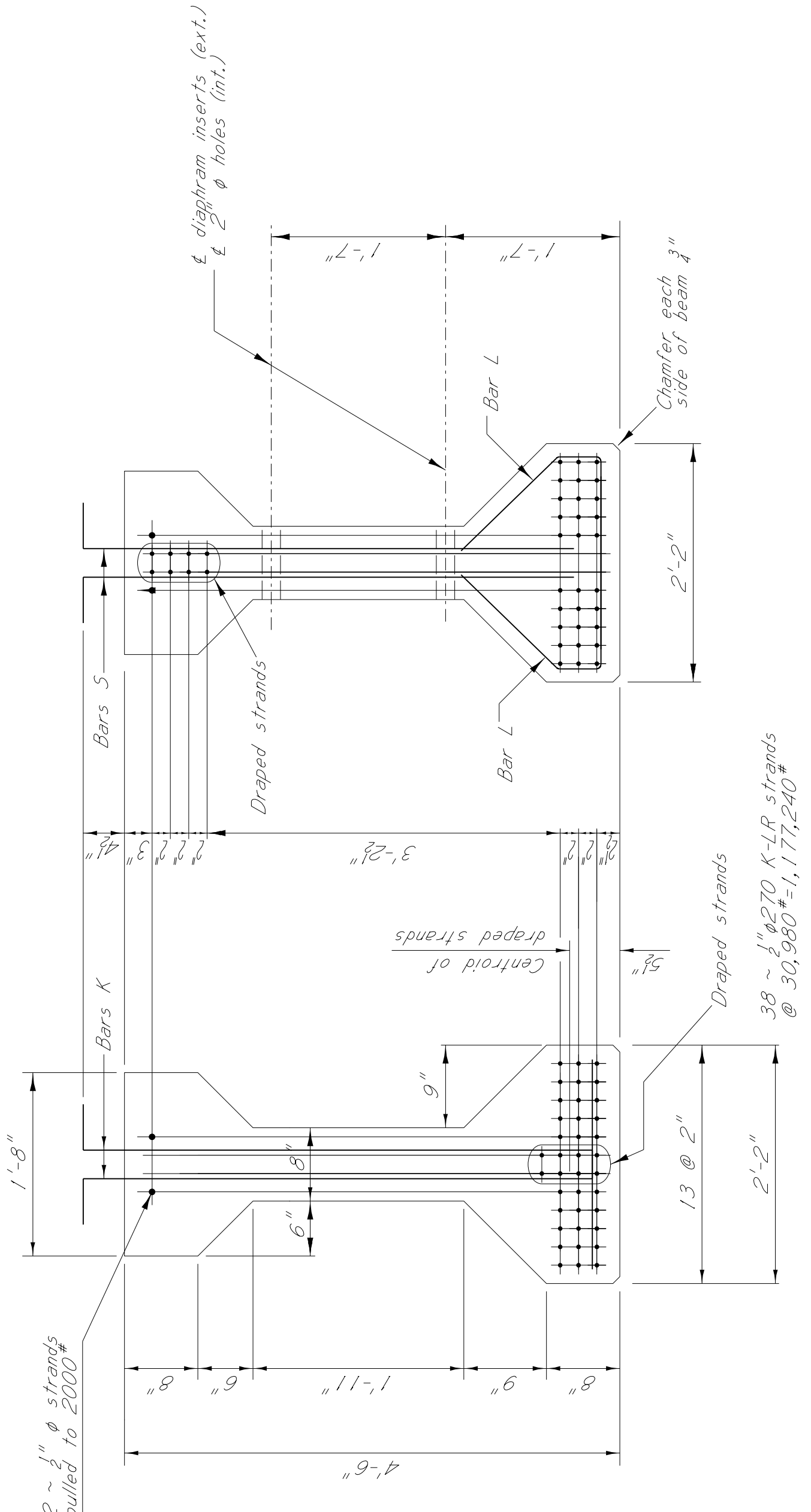
NOTE: Cut strands flush and weatherproof with limestone colored "Sonolastic" (Somnorn Building Products), "GC-9 Synthacalk" (Fecora Corp.) or approved equal, meeting the requirements of Federal Specification No. TT-S-0022E Or TT-S-00230C, applied according to Manufacturer's directions.

ELEVATION



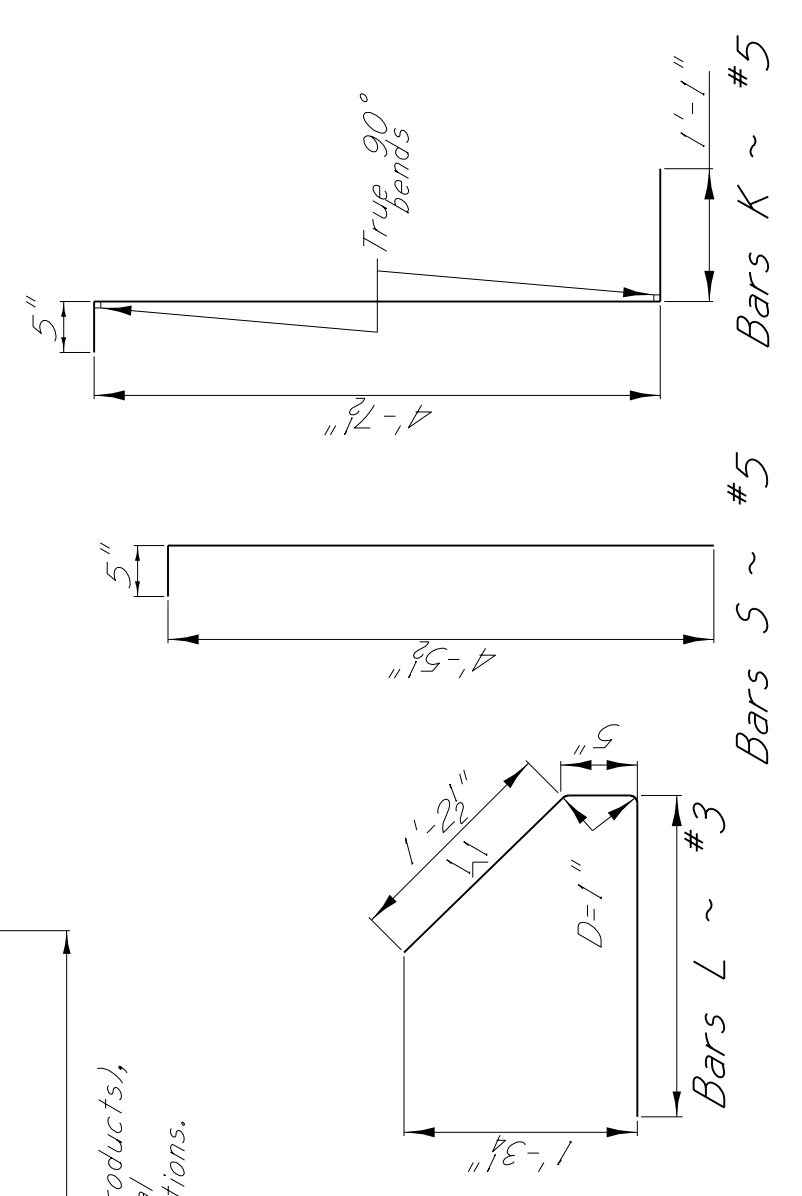
PART PLAN

Strands not shown for clarity



SECTION NEAR SPAN

END ELEVATION



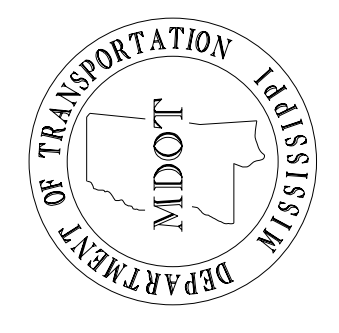
BAR BENDING DETAILS

Dimensions are out to out

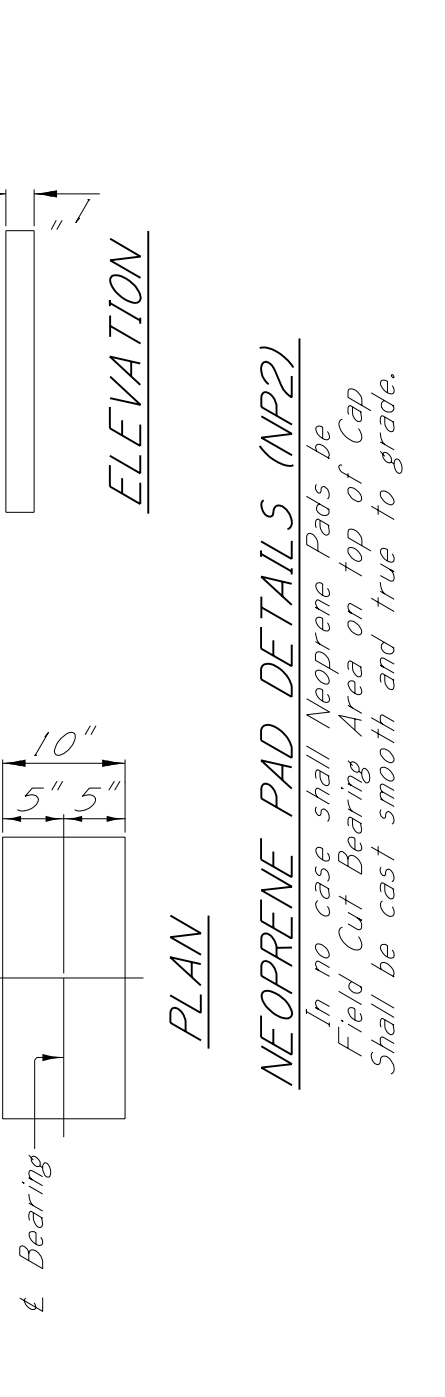
GENERAL NOTES:
 Beams shall be manufactured in accordance with Mississippi Standard Specifications for Road & Bridge Construction, 2004.
 The tops of beams shall be rough floated. At approximately the time of initial set the entire top of beams shall be scrubbed transversely with a coarse wire brush and the surface shall be maintained in a rough condition.
 Other surfaces shall be finished per specifications.
 Strand pattern detailed is for 3 #270 K-LR strands. Shop drawings of prestressed beams shall include the type and location of all strands.
 The Director of Structures, State Bridge Engineer shall be notified if the camber of the concrete shall be class "B" or "C".
 (a) shall have a 28-day cylinder strength of 5500 p.s.i.
 (b) at transfer of the tensioning load, the cylinder strength of the concrete shall be as shown in table.
 At the Contractor's request a suggested concrete design mix will be furnished with the understanding that it is the Contractor's responsibility to maintain 5500 p.s.i. concrete.
 If any cylinder is below 5500 p.s.i., the beam represented will be held on the job until the 28-day strength is determined and acceptance or rejection has been established.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
 BRIDGE "C" AT STA. 412+57.88

	100 FT. BEAM DETAILS BEAM NO. 100-1 (TYPE IV)	PROJECT 100444/301000 STP/EXB-0610-00(17)	BOLIVAR COUNTY WORKING NUMBER C14 OF 15 SHEET NUMBER 8048
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Strand type	Required number and location of strands		Centroid for total number of strands		Deflection diagram								
	Total Straight strands	Draped strands	Number	Centroid (in.)	From span to hold-down point	Minimum concrete strength at time of release (psi)							
3/4" #270 K-LR	38	30	7.54	8	5.50	48.00	4.71	13.66	10'-0"	0 to 3 1/2'	2 1/8"	1 1/8"	4200



NEOPRENE PAD DETAILS (NP2)

In no case shall Neoprene Pads be Field Cut Bearing Area on top of Cap. Shall be cast smooth and true to grade.

DESIGN DATA
 Unit stresses are in accordance with A.A.S.H.T.O., L.R.F.D. 2014
 Stay-in-place metal deck forms 18 psf (between flanges)