

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. <u> 1 </u>	DATED <u> 11/16/2017 </u>	ADDENDUM NO. <u> </u>	DATED <u> </u>
ADDENDUM NO. <u> 2 </u>	DATED <u> 11/21/2017 </u>	ADDENDUM NO. <u> </u>	DATED <u> </u>
ADDENDUM NO. <u> </u>	DATED <u> </u>	ADDENDUM NO. <u> </u>	DATED <u> </u>

Number	Description
1	Revised NTB No. 304; Revised Bid Items; Revised or Added Plan Sheet Nos. 2, 15, 19; Amendment EBS Download Required.1
2	Revised Bid Items; Revised or Added Plan Sheet Nos. 8001, 8003 - 8004, 8017, 8023, 8045, 8057, 8060; 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.

EXB-0051-02(024)/ 102383303000

Tallahatchie County(ies)

Revised 01/26/2016

Bridge Replacements on SR 32 between Webb & Charleston, Bridge Nos. 48.6, 48.8, 49.1, 49.5, 50.5, 50.8, & 51.5, known as Federal Aid Project No. EXB-0051-02(024) / 102383303 in Tallahatchie 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	201-B001		6	Acre	Clearing and Grubbing
0030	202-A001		1	Lump Sum	Removal of Obstructions
0040	202-B007		34,621	Square Yard	Removal of Asphalt Pavement, All Depths
0050	202-B019		186	Linear Feet	Removal of Box Culvert
0060	202-B052		320	Square Yard	Removal of Concrete Driveways, All Depths
0070	202-B158		5,914	Linear Feet	Removal of Guard Rail, Including Rails, Posts and Terminal Ends
0080	202-B191		978	Linear Feet	Removal of Pipe, 8" And Above
0090	202-B241		4	Mile	Removal of Traffic Stripe
0100	203-A001	(E)	13,166	Cubic Yard	Unclassified Excavation, FM, AH
0110	203-EX020	(E)	335,103	Cubic Yard	Borrow Excavation, AH, FME, Class B9
0120	203-F001	(E)	1,081	Cubic Yard	Channel Excavation, FM
0130	203-G001	(E)	80,352	Cubic Yard	Excess Excavation, FM, AH
0140	206-A001	(S)	4,140	Cubic Yard	Structure Excavation
0150	206-B001	(E)	380	Cubic Yard	Select Material for Undercuts, Contractor Furnished, FM
0160	209-A005		54,460	Square Yard	Geotextile Stabilization, Type V, Non-Woven
0170	213-C001		34	Ton	Superphosphate
0180	216-A001		5,378	Square Yard	Solid Sodding
0190	217-A001		15,560	Square Yard	Ditch Liner
0200	219-A001		111	Thousand Gallon	Watering [\$20.00]
0210	220-A001		34	Acre	Insect Pest Control [\$30.00]
0220	221-A001	(S)	62	Cubic Yard	Concrete Paved Ditch
0230	223-A001		69	Acre	Mowing [\$50.00]
0240	224-A001		795	Square Yard	Soil Reinforcing Mat
0250	225-A001		69	Acre	Grassing
0260	225-B001		34	Ton	Agricultural Limestone
0270	225-C001		138	Ton	Mulch, Vegetative Mulch
0280	226-A001		69	Acre	Temporary Grassing
0290	234-A001		14,700	Linear Feet	Temporary Silt Fence
0300	234-C001		2,800	Linear Feet	Super Silt Fence
0310	236-A008		19	Each	Silt Basin, Type D
0320	237-A002		1,030	Linear Feet	Wattles, 20"

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
0330	245-A001		436	Linear Feet	Silt Dike
0340	246-A001		436	Linear Feet	Sandbags
0350	247-A001		7	Each	Temporary Stream Diversion
0360	249-A001		356	Ton	Riprap for Erosion Control
0370	304-B002	(GT)	29,803	Ton	Granular Material, Class 3, Group D
0380	403-A003	(BA1)	5,463	Ton	12.5-mm, ST, Asphalt Pavement
0390	403-A006	(BA1)	6,441	Ton	19-mm, ST, Asphalt Pavement
0400	403-A015	(BA1)	4,982	Ton	9.5-mm, ST, Asphalt Pavement
0410	403-B003	(BA1)	394	Ton	12.5-mm, ST, Asphalt Pavement, Leveling
0420	403-C003	(BA1)	104	Ton	19-mm, ST, Asphalt Pavement, Trench Widening
0430	406-A002		2,200	Square Yard	Cold Milling of Bituminous Pavement, All Depths
0440	407-A001	(A2)	5,203	Gallon	Asphalt for Tack Coat
0450	408-A002	(A3)	2,532	Gallon	Asphalt for Prime Coat, Cut-Back MC-70 or Emulsified EA-1
0460	413-E001		478	Linear Feet	Sawing and Sealing Transverse Joints in Asphalt Pavement
0470	423-A001		7	Mile	Rumble Strips, Ground In
0480	502-A001	(C)	1,008	Square Yard	Reinforced Cement Concrete Bridge End Pavement
0490	503-C010		2,190	Linear Feet	Saw Cut, Full Depth
0500	601-A001	(S)	1,228	Cubic Yard	Class "B" Structural Concrete
0510	601-B001	(S)	1	Cubic Yard	Class "B" Structural Concrete, Minor Structures
0520	602-A001	(S)	172,122	Pounds	Reinforcing Steel
0530	603-ALT003	(S)	944	Linear Feet	18" Type A Alternate Pipe
0540	603-ALT005	(S)	56	Linear Feet	22" x 13" Type A Alternate Pipe
0550	603-ALT006	(S)	904	Linear Feet	24" Type A Alternate Pipe
0560	603-ALT009	(S)	176	Linear Feet	30" Type A Alternate Pipe
0570	603-ALT011	(S)	256	Linear Feet	36" Type A Alternate Pipe
0580	603-ALT016	(S)	72	Linear Feet	48" Type A Alternate Pipe
0590	603-CA026	(S)	120	Linear Feet	24" Reinforced Concrete Pipe, Class III
0600	603-CA076	(S)	112	Linear Feet	48" Reinforced Concrete Pipe, Class III
0610	603-CA099	(S)	104	Linear Feet	60" Reinforced Concrete Pipe, Class III
0620	603-CA119	(S)	240	Linear Feet	72" Reinforced Concrete Pipe, Class III
0630	603-CB004	(S)	4	Each	24" Reinforced Concrete End Section
0640	603-CB008	(S)	2	Each	48" Reinforced Concrete End Section
0650	603-CB010	(S)	2	Each	60" Reinforced Concrete End Section
0660	605-AA001	(S)	293	Square Yard	Geotextile for Subsurface Drainage, Type III

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
0670	605-O002	(S)	528	Linear Feet	4" Perforated Sewer Pipe for Underdrains, SDR 23.5
0680	605-P002	(S)	430	Linear Feet	4" Non-perforated Sewer Pipe for Underdrains, SDR 23.5
0690	605-W001	(GY)	20	Cubic Yard	Filter Material for Combination Storm Drain and/or Underdrains, Type A, FM
0700	606-B001		1,775	Linear Feet	Guard Rail, Class A, Type 1
0710	606-D022		24	Each	Guard Rail, Bridge End Section, Type I
0720	606-E005		24	Each	Guard Rail, Terminal End Section, Flared
0730	609-D003	(S)	786	Linear Feet	Combination Concrete Curb and Gutter Type 2
0740	612-B001		185	Cubic Yard	Flowable Fill, Non-Excavatable
0750	614-A001	(S)	164	Square Yard	Concrete Driveway, Without Reinforcement
0760	615-A002	(S)	240	Linear Feet	Concrete Bridge End Barrier, 33.5"
0770	616-A001	(S)	128	Square Yard	Concrete Median and/or Island Pavement, 10-inch
0780	616-A004	(S)	761	Square Yard	Concrete Median and/or Island Pavement, 4-inch
0790	617-A001		57	Each	Right-of-Way Marker
0800	618-A001		1	Lump Sum	Maintenance of Traffic
0810	619-A1004		6	Mile	Temporary Traffic Stripe, Continuous White, Paint
0820	619-A2004		1	Mile	Temporary Traffic Stripe, Continuous Yellow, Paint
0830	619-A2008		1,930	Linear Feet	Temporary Traffic Stripe, Continuous Yellow, Type 1 or 2 Tape
0840	619-A4004		3	Mile	Temporary Traffic Stripe, Skip Yellow, Paint
0850	619-A5002		12,235	Linear Feet	Temporary Traffic Stripe, Detail, Paint
0860	619-A5003		2,814	Linear Feet	Temporary Traffic Stripe, Detail, Type 1 Tape
0870	619-A6002		775	Linear Feet	Temporary Traffic Stripe, Legend
0880	619-D1001		348	Square Feet	Standard Roadside Construction Signs, Less than 10 Square Feet
0890	619-D2001		654	Square Feet	Standard Roadside Construction Signs, 10 Square Feet or More
0900	619-E3001		2	Each	Changeable Message Sign
0910	619-F1001		448	Linear Feet	Concrete Median Barrier, Precast
0920	619-G4001		24	Linear Feet	Barricades, Type III, Double Faced
0930	619-G4005		724	Linear Feet	Barricades, Type III, Single Faced
0940	619-G5001		610	Each	Free Standing Plastic Drums
0950	619-G7001		4	Each	Warning Lights, Type "B"
0960	619-J1002		4	Each	Impact Attenuator, 45 MPH
0970	620-A001		1	Lump Sum	Mobilization
0980	621-A001		1	Each	Field Laboratory
0990	626-C002		7	Mile	6" Thermoplastic Double Drop Edge Stripe, Continuous White

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
1000	626-D001		4	Mile	6" Thermoplastic Double Drop Traffic Stripe, Skip Yellow
1010	626-E001		1	Mile	6" Thermoplastic Double Drop Traffic Stripe, Continuous Yellow
1020	626-G002		3,531	Linear Feet	Thermoplastic Detail Stripe, White
1030	626-H004		75	Square Feet	Thermoplastic Legend, White
1040	626-H005		518	Linear Feet	Thermoplastic Legend, White
1050	627-L001		312	Each	Two-Way Yellow Reflective High Performance Raised Markers
1060	630-A001		54	Square Feet	Standard Roadside Signs, Sheet Aluminum, 0.080" Thickness
1070	630-A003		242	Square Feet	Standard Roadside Signs, Sheet Aluminum, 0.125" Thickness
1080	630-C003		543	Linear Feet	Steel U-Section Posts, 3.0 lb/ft
1090	630-F006		119	Each	Delineators, Guard Rail, White
1100	630-G005		24	Each	Type 3 Object Markers, OM-3R or OM-3L, Post Mounted
1110	630-K002		44	Linear Feet	Welded & Seamless Steel Pipe Posts, 3"
1120	699-A001		1	Lump Sum	Roadway Construction Stakes
1130	815-A007	(S)	4,522	Ton	Loose Riprap, Size 300
1140	815-E001	(S)	3,262	Square Yard	Geotextile under Riprap
1150	815-F002	(S)	444	Ton	Sediment Control Stone
1160	907-207-A001		8	Each	Settlement Plate
1170	907-253-A001		2,376	Linear Feet	Coir Fiber Baffle
1180	907-906001		720	Hours	Trainees [\$5.00]
ALTERNATE GROUP AA NUMBER 1					
1190	304-F001	(GT)	23,113	Ton	3/4" and Down Crushed Stone Base
ALTERNATE GROUP AA NUMBER 2					
1200	304-F002	(GT)	23,113	Ton	Size 610 Crushed Stone Base
ALTERNATE GROUP AA NUMBER 3					
1210	304-F003	(GT)	23,113	Ton	Size 825B Crushed Stone Base
ALTERNATE GROUP BB NUMBER 1					
1220	605-W002	(GY)	345	Cubic Yard	Filter Material for Combination Storm Drain and/or Underdrains, Type B, FM
ALTERNATE GROUP BB NUMBER 2					
1230	605-W003	(GY)	345	Cubic Yard	Filter Material for Combination Storm Drain and/or Underdrains, Type C, FM
Bridge Items					
1240	501-K001		3,876	Square Yard	Transverse Grooving
1250	803-B001		6	Each	Conventional Static Pile Load Test [\$5,000.00]
1260	803-D005	(S)	10,425	Linear Feet	HP 14 x 117 Steel Piling
1270	803-I003	(S)	17	Each	PDA Test Pile, HP Steel Pile

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
1280	803-I004	(S)	1	Each	PDA Test Pile, Steel Pipe Pile
1290	803-J001	(S)	11	Each	Pile Restrike
1300	804-A001	(S)	625	Cubic Yard	Bridge Concrete, Class AA
1310	804-A004	(S)	1,186	Cubic Yard	Bridge Concrete, Class BD
1320	804-C002	(S)	499	Linear Feet	100' Prestressed Concrete Beam, Type IV
1330	804-C065	(S)	3,744	Linear Feet	40' Prestressed Concrete Beam, Type I+2
1340	804-C084	(S)	299	Linear Feet	60' Prestressed Concrete Beam, Type II+2
1350	804-C121	(S)	399	Linear Feet	80' Prestressed Concrete Beam, Type III
1360	804-C142	(S)	449	Linear Feet	90' Prestressed Concrete Beam, Type IV
1370	805-A001	(S)	330,010	Pounds	Reinforcement
1380	813-A002	(S)	2,199	Linear Feet	Concrete Railing, 32"
1390	815-A007	(S)	6,253	Ton	Loose Riprap, Size 300
1400	815-E001	(S)	4,758	Square Yard	Geotextile under Riprap
1410	803-P003	(S)	650	Linear Feet	30" Steel Pipe Piling, Wall Thickness 0.500"

ADDENDUM

DESCRIPTION OF SHEETS
SPECIAL DESIGN SHEETS ~ BRIDGE DRAWINGS

DESCRIPTION OF SHEETS
SPECIAL DESIGN SHEETS ~ BRIDGE DRAWINGS

WORKING
NUMBER

SHEET
NUMBER

DETAILED INDEX
DETAILED INDEX
SUMMARY OF QUANTITIES
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D1-BR-1 8001
D1-BR-2 8002
S0-BR-1 8003
E0-BR-1 8004

BRIDGE "A" AT STA. 526+02.21
SR 32 RELIEF BRIDGE (LAYOUT)
SR 32 RELIEF BRIDGE (FOUNDATION)
END BENT NO. 1 DETAILS
END BENT NO. 4 DETAILS
END BENT DETAILS
INT. BENT NO. 2 & 3 DETAILS
40 FT. SPAN NO. 1, 2, & 3 DETAILS
40 FT. SPAN DETAILS
MISCELLANEOUS SPAN DETAILS
40 FT. BEAM DETAILS (END SPAN) - BEAM 40-1 - TYPE I+2
40 FT. BEAM DETAILS (INT. SPAN) - BEAM 40-2 - TYPE I+2
GENERALIZED SOIL PROFILE

BRIDGE "D" AT STA. 574+43.21
SR 32 OVER TIPPO BAYOU SLOUGH (GENERAL NOTES)
SR 32 OVER TIPPO BAYOU SLOUGH (LAYOUT)
SR 32 OVER TIPPO BAYOU (FOUNDATION)
END BENT NO. 1 DETAILS
END BENT NO. 6 DETAILS
END BENT DETAILS
INT. BENT NO. 2 & 5 DETAILS
INT. BENT NO. 3 & 4 DETAILS
40 FT. SPAN NO. 1 - 2 & 4 - 5 DETAILS
40 FT. SPAN DETAILS
100 FT. SPAN NO. 3 DETAILS
100 FT. SPAN DETAILS
MISCELLANEOUS SPAN DETAILS
100 FT. BEAM DETAILS (INT. SPAN) - BEAM 100-1 - TYPE IV
GENERALIZED SOIL PROFILE

D1 OF 15 8045
D2 OF 15 8046
D3 OF 15 8047
D4 OF 15 8048
D5 OF 15 8049
D6 OF 15 8050
D7 OF 15 8051
D8 OF 15 8052
D9 OF 15 8053
D10 OF 15 8054
D11 OF 15 8055
D12 OF 15 8056
D13 OF 15 8057
D14 OF 15 8058
D15 OF 15 8059

BRIDGE "B" AT STA. 537+18.88
SR 32 RELIEF BRIDGE (LAYOUT)
SR 32 RELIEF BRIDGE (FOUNDATION)
END BENT NO. 1 & 2 DETAILS
END BENT DETAILS
90 FT. SPAN NO. 1 DETAILS
90 FT. SPAN DETAILS
MISCELLANEOUS SPAN DETAILS
90 FT. BEAM DETAILS (END SPAN) - BEAM 90-1 - TYPE IV
GENERALIZED SOIL PROFILE
SURCHARGE AND SETTLEMENT PLATE DETAILS

BRIDGE "E" AT STA. 644+07.09
SR 32 OVER HUBBARD CREEK TRIBUTARY (LAYOUT)
SR 32 OVER HUBBARD CREEK TRIBUTARY (FOUNDATION)
END BENT NO. 1 & 4 DETAILS
END BENT DETAILS
INT. BENT NO. 2 DETAILS
INT. BENT NO. 3 DETAILS
40 FT. SPAN NO. 1 & 3 DETAILS
40 FT. SPAN DETAILS
60 FT. SPAN NO. 2 DETAILS
60 FT. SPAN DETAILS
MISCELLANEOUS SPAN DETAILS
40 FT. BEAM DETAILS (END SPAN) - BEAM 40-3 - TYPE I+2
60 FT. BEAM DETAILS (INT. SPAN) - BEAM 60-1 - TYPE II+2
GENERALIZED SOIL PROFILE

E1 OF 14 8060
E2 OF 14 8061
E3 OF 14 8062
E4 OF 14 8063
E5 OF 14 8064
E6 OF 14 8065
E7 OF 14 8066
E8 OF 14 8067
E9 OF 14 8068
E10 OF 14 8069
E11 OF 14 8070
E12 OF 14 8071
E13 OF 14 8072
E14 OF 14 8073

BRIDGE "C" AT STA. 549+86.21
SR 32 McQUIRTER BAYOU (GENERAL NOTES)
SR 32 McQUIRTER BAYOU (LAYOUT)
SR 32 McQUIRTER BAYOU (FOUNDATION)
SR 32 McQUIRTER BAYOU (FOUNDATION)
END BENT NO. 1 DETAILS
END BENT NO. 10 DETAILS
END BENT DETAILS
INT. BENT NO. 2, 3, 6, 7, 8, & 9 DETAILS
INT. BENT NO. 4 & 5 DETAILS
40 FT. SPAN NO. 1, 2, & 3 DETAILS
40 FT. SPAN DETAILS
80 FT. SPAN NO. 4 DETAILS
80 FT. SPAN DETAILS
40 FT. SPAN NO. 5, 6, 7, 8, & 9 DETAILS
MISCELLANEOUS SPAN DETAILS
80 FT. BEAM DETAILS (INT. SPAN) - BEAM 80-1 - TYPE III
GENERALIZED SOIL PROFILE
SURCHARGE AND SETTLEMENT PLATE DETAILS

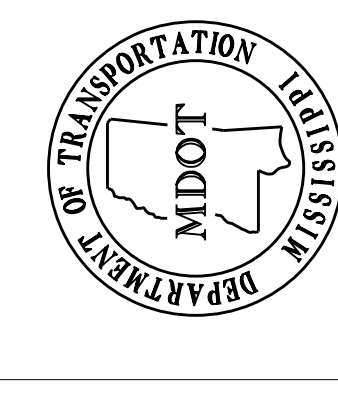
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C4 OF 18 8030
C5 OF 18 8031
C6 OF 18 8032
C7 OF 18 8033
C8 OF 18 8034
C9 OF 18 8035
C10 OF 18 8036
C11 OF 18 8037
C12 OF 18 8038
C13 OF 18 8039
C14 OF 18 8040
C15 OF 18 8041
C16 OF 18 8042
C17 OF 18 8043
C18 OF 18 8044

BRIDGE DIVISION		
REVISIONS		
DATE	SHEET NO.	BY
10/25/17	8025, 8026, 8043, 8044	RSF
11/21/17	8003, 8004, 8017, 8023, 8045, 8057, 8060	CJD2

STATE	PROJECT NO.
MISS.	EXB-0051-02(024)

BRIDGE DIVISION	
REVISIONS	
DATE	SHEET NO.

DESIGNER	CHECKER	WORKING NUMBER
Adam Jackson	Adam Jackson	DI-BR-1
DATE	ISSUE DATE	SHEET NUMBER
11/18/2015	11/18/2015	8001



MISSISSIPPI DEPARTMENT OF TRANSPORTATION
DETAILED INDEX
(BRIDGE)

PROJECT 102383/303000
EXB-0051-02(024)

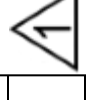
TALLAHATCHIE COUNTY


DATE: 11/18/2015

ADDENDUM

STATE	PROJECT NO.
MISS	EXB-0051-02(024)

SUMMARY OF QUANTITIES			
PAY ITEM NO.	PAY ITEM	UNIT	QUANTITIES
			PRELIMINARY FINAL
BRIDGE SUMMARY			
501-K001	Transverse Grooving	SY	3,876
803-B001	Conventional Static Pile Load Test	EA	6
803-D005	HP 14 x 117 Steel Piling	LF	10,425
803-I003	PDA Test Pile, HP Steel Pile	EA	17
803-I004	PDA Test Pile, Steel Pipe Pile	EA	1
803-J001	Pile Restrike	EA	11
803-P003	30" Steel Pipe Piling, Wall Thickness 0.500"	LF	650
804-A001	Bridge Concrete, Class AA	CY	625
804-A004	Bridge Concrete, Class BD	CY	1,186
804-C002	100' Prestressed Concrete Beam, Type IV	LF	499
804-C065	40' Prestressed Concrete Beam, Type I+2	LF	3,744
804-C084	60' Prestressed Concrete Beam, Type II+2	LF	299
804-C121	80' Prestressed Concrete Beam, Type III	LF	399
804-C142	90' Prestressed Concrete Beam, Type IV	LF	449
805-A001	Reinforcement	LBS	330,010
813-A002	Concrete Railing, 32"	LF	2,199
815-A007	Loose Riprap, Size 300	TON	6,253
815-E001	Geotextile under Riprap	SY	4,758



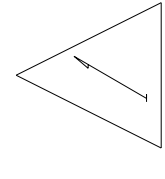
		MISSISSIPPI DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES (BRIDGE ITEMS) PROJECT EXB-0051-02(024) 102383-303000	WORKING NUMBER SQ-BR-1
TALLAHATCHIE County DESIGNER <u>Trent Wilson, PE</u> CHECKER DETAILER _____ ISSUE DATE <u>11/15/2015</u>		SHEET NUMBER 8003	
DATE: 11/21/2017		DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - JUSTIN WALKER, P.E. DEP. DIR OF STRUCTURES, ASST. STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.E.	

11/21/2017 Revised File Quantity	By _____ Revision
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ADDENDUM

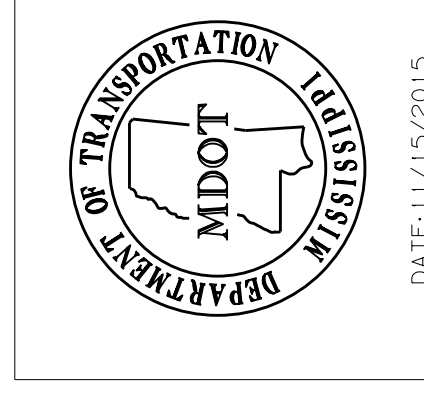
STATE	PROJECT NO.
MISS.	EXB-0051-02(024)

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DESIGNER	Traci Wixon, PE	CHECKER	N/A
DETAILER	Barbara Johnson	ISSUE DATE	11/15/2015
DATE	11/21/2017	PROJECT	102383/303000
CD2	Replaced Sheet	EXB-0051-02(024)	
REVISIONS		TALLAHATCHIE COUNTY	
BY		WORKING NUMBER	EO-BR-1
		SHEET NUMBER	8004

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ESTIMATED QUANTITIES
(BRIDGE ITEMS)



DATE: 11/15/2015

ADDENDUM

V.P.C. Sta 536+00.00
Elev. 158.390

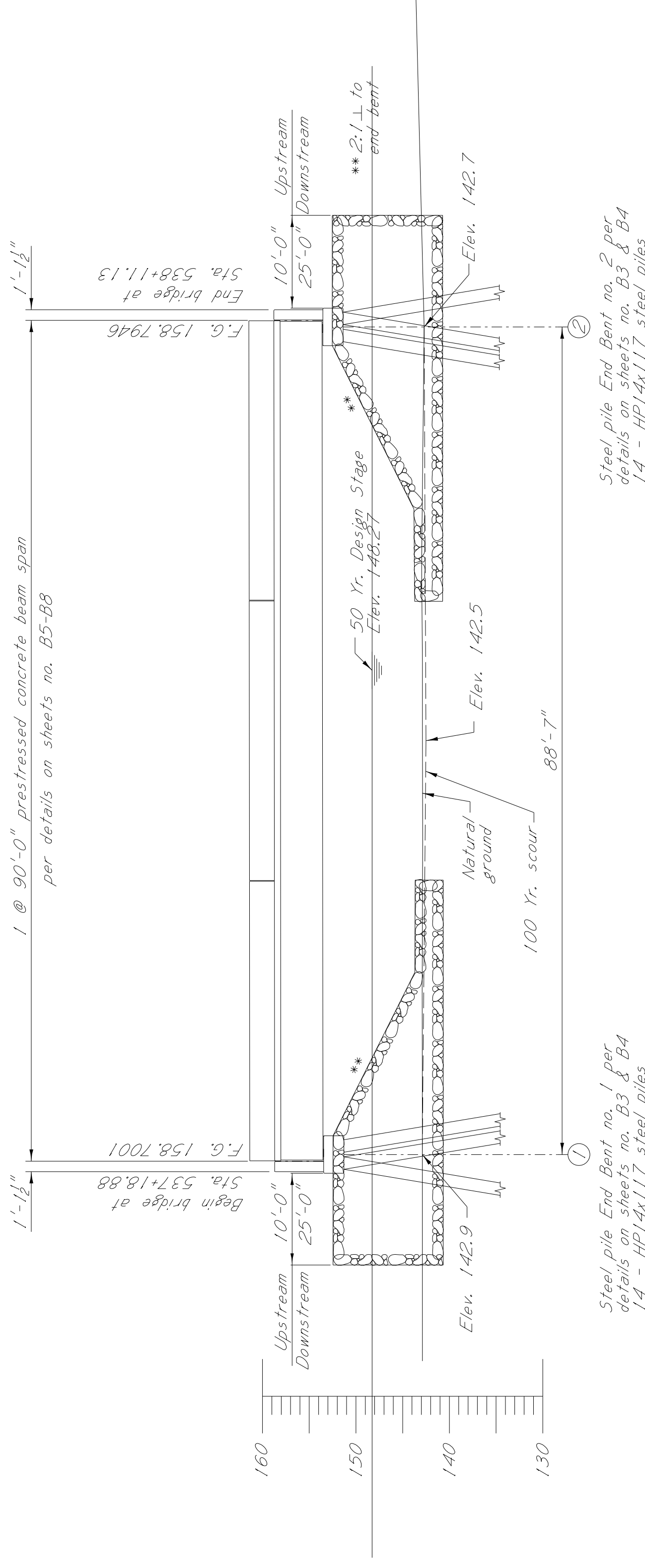
V.P.I. Sta 538+00.00
Elev. 159.09
F.G. Elev. 158.7832

V.P.T. Sta 540+00.00
Elev. 158.990

400 FT. VERTICAL CURVE

Total length of bridge 92'-3"

1 @ 90'-0" prestressed concrete beam span
per details on sheets no. B5-B8

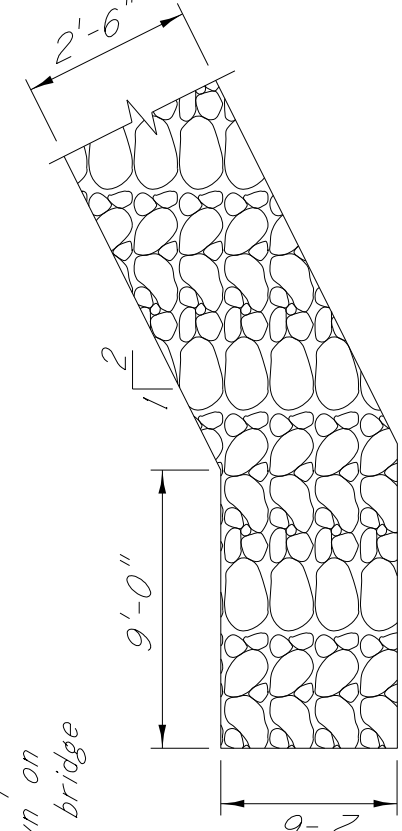


Steel pile End Bent no. 1 per details on sheets no. B3 & B4
14 - HP14x17 steel piles

ELEVATION WITH PROFILE ALONG & APPROACH ROADWAY

Scale 1" = 10'-0"

NOTE:
Geotextile fabric is required under all riprap.
All riprap and geotextile fabric shown on the bridge plans are included in the bridge quantities.



500 YEAR SCOUR

Bent No.	Elevation
1	142.9
2	142.7

Bent No.	Min. Length (ft.)	Tip Elev.
1	60.0	76.9

REQUIRED ULTIMATE PILE BEARING CAPACITY AND TIP ELEVATION SCHEDULE

Bent No.	Pile Type & Size	Required Ultimate Bearing (Tons)	Est. Length (ft.)	Controlling Limit State	LRFD Resistance Factor	Tip Elevation
1	HP14x17	101	50.0	Strength I	0.65	122.9
2	HP14x17	101	50.0	Strength I	0.65	122.7

NOTE: The LRFD Load Resistance Factor of 0.65 has been applied to the Required Ultimate Bearing

NOTE:
The girder deflection diagrams shown in these plans were prepared and intended for design and estimation purposes only. Actual bridge girder deflections may differ from the deflection diagrams shown in these plans.
It is the Contractor's responsibility to construct the bridge to meet the requirements of the plans and specifications including, but not limited to, the requirements for bridge deck smoothness.
Prior to formwork construction, the Contractor shall submit three (3) copies of a proposed BRIDGE SUPERSTRUCTURE CONSTRUCTION PLAN to the Director of Structures, State Bridge Engineer for review, through the Project Engineer. This submittal shall include all calculations, assumptions and parameters used by the Contractor to determine bridge girder deflections and form grade elevations. This submittal shall also include an erection and construction procedure that addresses the construction means and methodologies used by the Contractor and shall consider effects including, but not limited to, construction phasing, pouring schedules, applied permanent and construction loading, and shall include calculations and details of temporary girder bracing systems used to ensure girder stability and to counter the effects of girder lift.
After girder erection and prior to deck construction, the Contractor shall submit deck thickness verification calculations for each girder. These calculations shall include a comparison of the erected girder top flange profiles versus the plan deck grade elevations over each girder plus the anticipated girder deflection due to applied permanent dead load and creep.
Three (3) copies of the deck thickness verification calculations and any proposed remediation measures to correct for thin deck areas shall be submitted to the Director of Structures, State Bridge Engineer, through the Project Engineer.
The BRIDGE SUPERSTRUCTURE CONSTRUCTION PLAN and the deck thickness verification calculations shall be prepared and stamped by a Mississippi Registered Professional Engineer.

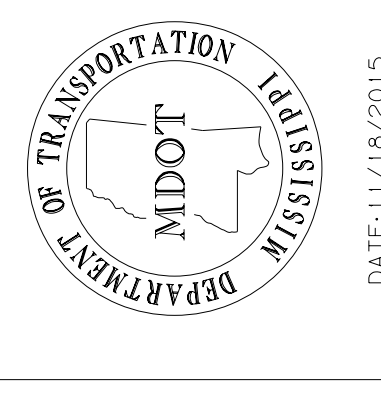
RIPRAP APRON DETAILS

ESTIMATED QUANTITIES

Item	Trans. Grooving	Conventional Static Pile Load Test	HP14x17 Steel Piling	PDA Test Pile	Pile Restrike	Bridge Class AA C.Y.	Bridge Class BD C.Y.	90 Ft. Prestressed Conc. Beams Type IV	Reinforcement	Concrete	Loose Riprap (300%)	Geotextile Fabric Under Riprap
Location	S.Y.											
Spans	320.00											
End bents		1	1,350.0	1	1	83.08	104.46	448.75	19,388	180.00	1,997.0	1,183.0
Mt. bents									10,704	4.33		
Totals	320.00	1	1,350.0	1	1	83.08	104.46	448.75	30,092	184.33	1,997.0	1,183.0

NOTE: In lieu of splice plates, prefabricated splicers may be used. Prefabricated splicers shall be submitted for approval by the Director of Structures, State Bridge Engineer.

SEISMIC DESIGN DATA:
Seismic Performance Zone: Zone 2
Site Class Definition: Site Class "D"
Importance Category: Other



DATE: 11/18/2015

STATE	PROJECT NO.
MISS.	EXB-0051-02(024)

GENERAL NOTES:
Specifications: Mississippi Standard Specifications For Road and Bridge Construction, 2017.
No change of plans will be permitted except by written approval of the Director of Structures, State Bridge Engineer.
Minor changes in detail of design or construction procedure may be authorized by the Director of Structures, State Bridge Engineer provided such changes will not be cause for contract price adjustment.

The final surface texture of the bridge deck shall be mechanically transverse grooved in accordance with Sections 501 And 804 of the specifications. See Misc. Span Details for limits of transverse grooving on bridge deck.
Bridge concrete shall be Class "AA" or Class "BD" as indicated in plans.
Railings expansion joint material shall be bituminous fiber type unless otherwise noted.

No payment will be allowed for excavation incidental to the construction of end bents.
Bar bending details shall be in accordance with "Manual of Standard Practice for Detailing Reinforced Concrete Structures" (ACI 315R-94).
Reinforcement order lists and required placing plans shall be furnished in accordance with Section 805 of the Mississippi Standard Specifications. Partial submittals are not acceptable.
Shop drawings of prestressed beams, including an erection plan, shall be submitted in duplicate to the Director of Structures, State Bridge Engineer for approval prior to the manufacture of beams.
Concrete surfaces shall receive a Class 2 rubbed or spray finish in accordance with the specifications.
Reinforcing steel shall be ASTM A615, Grade 60, unless otherwise noted.
Work for which no pay item is provided in the proposal will not be paid for directly and compensation therefor will be included in the prices and payments for bid items.

STEEL PILE NOTES:

Test piles shall be driven as permanent piles at the location shown in the PDA TEST PILE SCHEDULE and will be paid for as test piles only.
The Director of Structures, State Bridge Engineer may authorize test piles driven outside the structural limits.
Test piles shall be driven as a continuous operation to the bearing capacity and the minimum ground penetration shown in the PDA TEST PILE SCHEDULE unless otherwise directed by the Director of Structures, State Bridge Engineer.
Permanent piles shall be driven to an elevation no higher than the elevation shown in the REQUIRED ULTIMATE PILE BEARING CAPACITY AND TIP ELEVATION SCHEDULE.
The tip elevation of piling for hydraulic structures, may be determined by the scour line.
When feasible, bearing piles shall be driven full length and be spliced, only as approved by the Director of Structures, State Bridge Engineer.
Welding shall be done by the ELECTRIC ARC process. Welders shall be certified and electrodes shall be approved.
When loading tests are required, the maximum test load shall be one and one half (1 1/2) times the minimum pile bearing capacity.
PDA test piles shall require a 1 day and 7 day restrike unless otherwise directed by the Engineer.
Pile lengths and driving criteria shall be provided based on the results of the PDA test piles.
The required ultimate pile bearing shown in the REQUIRED ULTIMATE PILE BEARING CAPACITY AND TIP ELEVATION SCHEDULE includes the LRFD resistance factor for PDA of 0.65.
Pile hammer leads used for all PDA test piles and PDA restrikes shall be large enough to provide a minimum of 3" of clearance on each side of the pile in order to properly place and protect PDA gages.
Steel HP section piles shall be driven with a Pile Hammer with a maximum rated energy no less than 62,000 ft-lbs, to the tip elevations specified.
Steel for steel piling shall be ASTM A572, Grade 50.

DRAINAGE DATA:

Drainage area: 4,290 sq. mi.
Total O&O (U.S.G.S.): 34,400 c.f.s.
THIS BRIDGE PROVIDES: 331 c.f.s.
Effective area: 477 sq. ft.

DESIGN DATA:

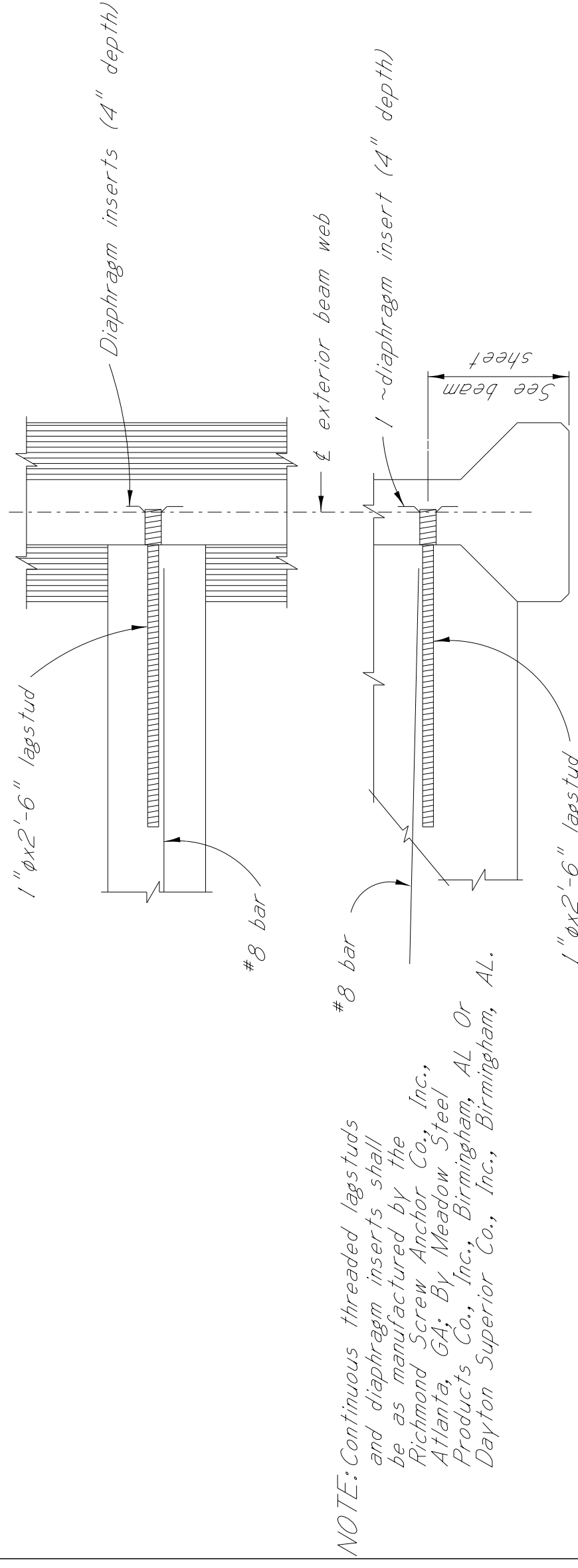
Specifications: A.A.S.H.T.O., LRFD 2014
Loadings: HL-93
Roadway width: 36'-0" gutter to gutter
Concrete: Class "AA" (4,000 p.s.i.)
Class "BD" (4,000 p.s.i.)
Stay-in-place metal deck forms: 18 psf (between stringers)

MISSISSIPPI DEPARTMENT OF TRANSPORTATION	BRIDGE "B" AT STA. 537+18.88
SR 32 ACROSS RELIEF BRIDGE LAYOUT	PROJECT 102383/303000
TALLAHATCHIE COUNTY	EXB-0051-02(024)
WORKING NUMBER	BI OF 10
SHEET NUMBER	8017

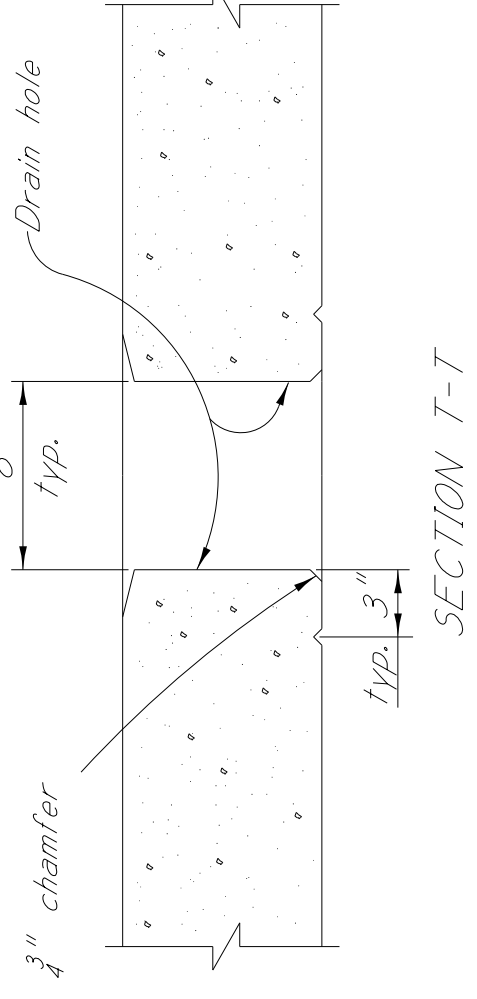
REVISIONS	DATE	CHECKER	ISSUE DATE
11/21/17		Adam Jackson	11/18/2015

ADDENDUM

STATE	PROJECT NO.
MISS.	EXB-0051-02(024)



PART SECTION
DIAPHRAGM INSERT AND LAGSTUD DETAILS

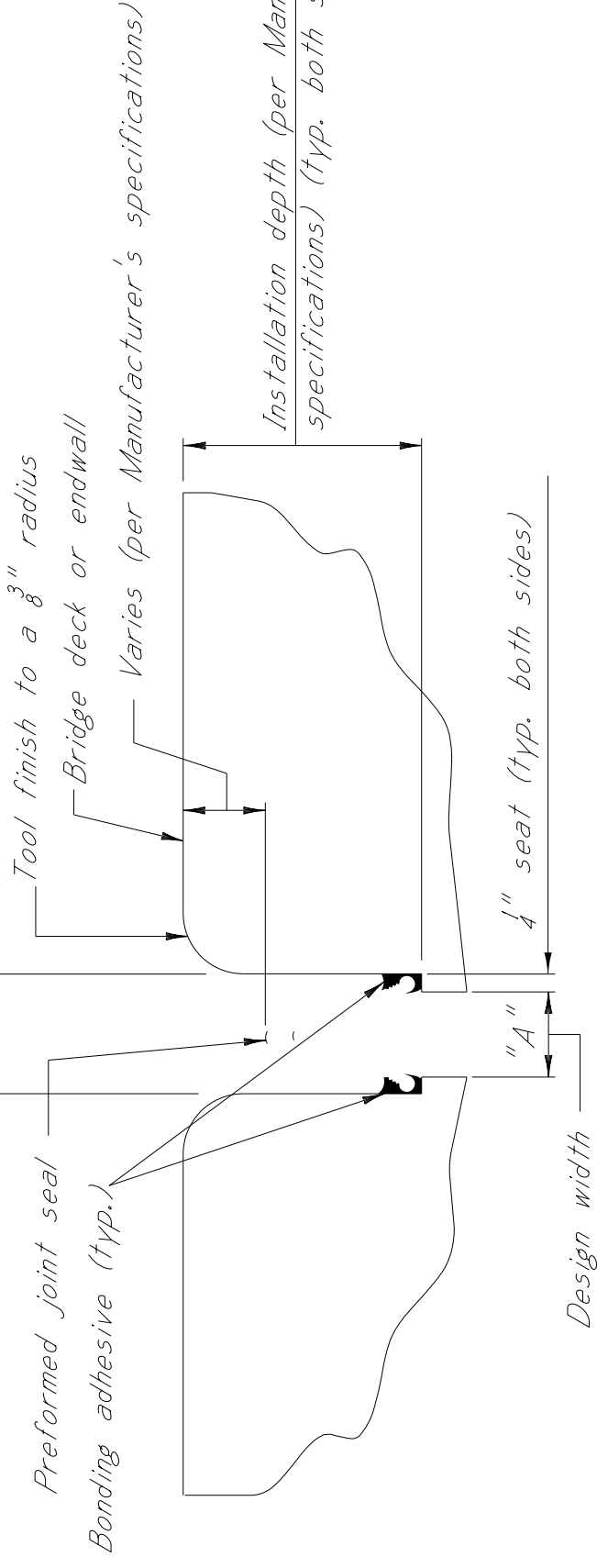


NOTE: Drain holes shall be located so that bars B & C will not be cut.

DRAIN HOLE DETAILS

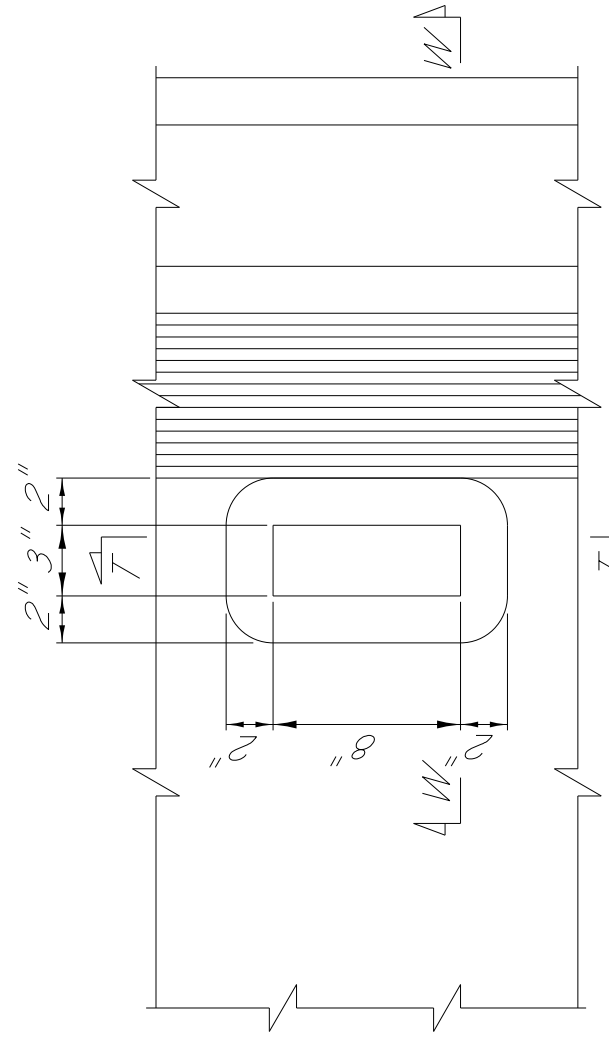
Use where shown on the Span Detail sheet.

Installation depth (per Manufacturer's specifications) (Typ. both sides of joint).

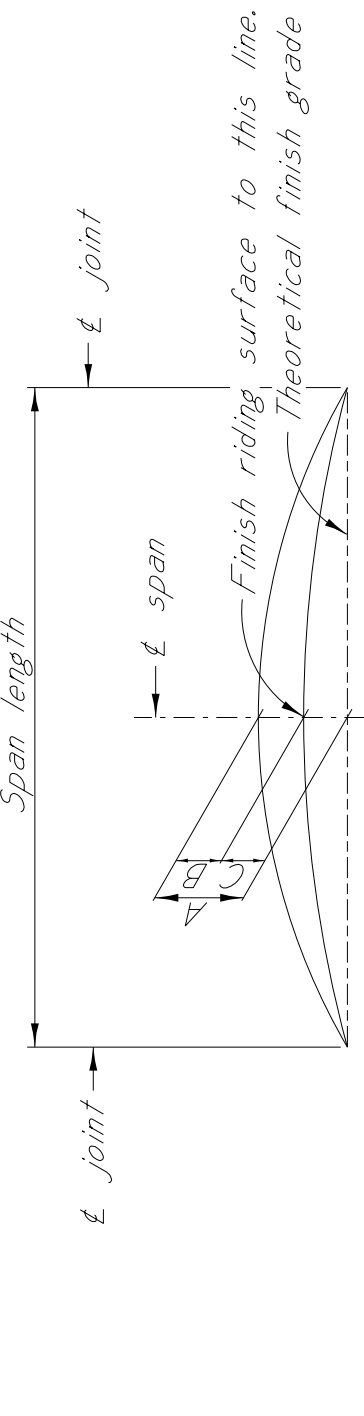


NOTES:

1. Joint installation and sealing on newly constructed bridge decks shall not be paid for directly and shall be considered an absorbed item of work.
2. The preformed joint seal shall be one of the following, installed according to the Manufacturer's specifications:
 - A. Silicoflex Joint Sealing System, manufactured by R.J. Watson, Inc. www.rjwatson.com
 - B. Wabco SPS Joint System manufactured by Watson Bowman Acme Corporation www.wbacorp.com
 - C. Sispac SSS Silicone Strip Seal manufactured by SSI Commercial & Highway Construction Materials www.ssicm.com
3. 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 Manufacturer. 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.
4. Dimension "A" is defined as the design width of the joint opening, which does not account for the 1/2" seal 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 28'. In cases where design widths are greater than 28', another type of expansion material shall be required as directed by the Director of Structures, State Bridge Engineer.
5. 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.



CROWN DETAILS



DEFLECTION DIAGRAM

A = total recommended allowance for deflection.
 B = estimated deflection due to dead load of slab & rail.
 C = A-B = net initial camber in riding surface, which includes an allowance for creep.

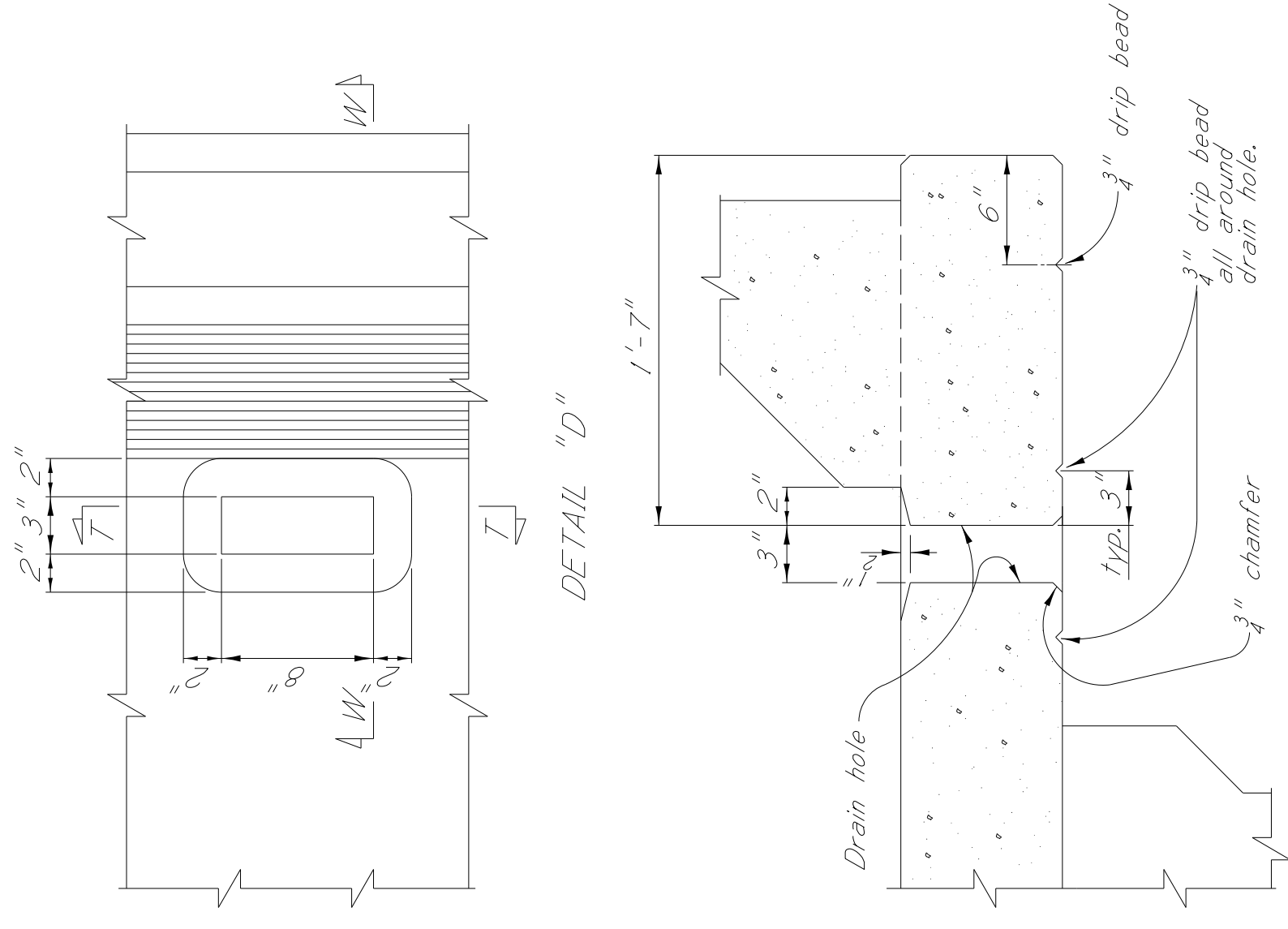
NOTE: For values of A, B & C, see Beam Detail sheets.

NOTE:

The Girder Deflection Diagrams shown in these plans were prepared and intended for design and estimation purposes only. Actual bridge girder deflections may differ from the deflection diagrams shown in these plans. It is the Contractor's responsibility to construct the bridge to meet the requirements of the plans and specifications including, but not limited to, the requirements for bridge deck smoothness. Prior to formwork construction, the Contractor shall submit three (3) copies of a proposed BRIDGE SUPERSTRUCTURE CONSTRUCTION PLAN to the Director of Structures, State Bridge Engineer for review, through the Project Engineer. This submittal shall include all calculations, assumptions and parameters used by the Contractor to determine bridge girder deflections and form grade elevations. This submittal shall also include an erection and construction procedure that addresses the construction means and methodologies used by the Contractor and shall consider effects including, but not limited to, construction phasing, pouring schedules, applied permanent and construction loads, and shall include calculations and details of temporary greater bracing systems used to ensure girder stability and to counter the effects of girder lift. After girder erection and prior to deck construction, the Contractor shall submit deck thickness verification calculations for each girder. These calculations shall include a comparison of the erected girder top flange profiles versus the plan deck grade elevations over each girder plus the anticipated girder deflection due to applied permanent dead load and creep. Three (3) copies of the deck thickness verification calculations, which shall appear immediately adjacent to the deck construction areas, shall be submitted to the Director of Structures, State Bridge Engineer for review, through the Project Engineer. The BRIDGE SUPERSTRUCTURE CONSTRUCTION PLAN and the deck thickness verification calculations shall be prepared and stamped by a Mississippi Registered Professional Engineer.

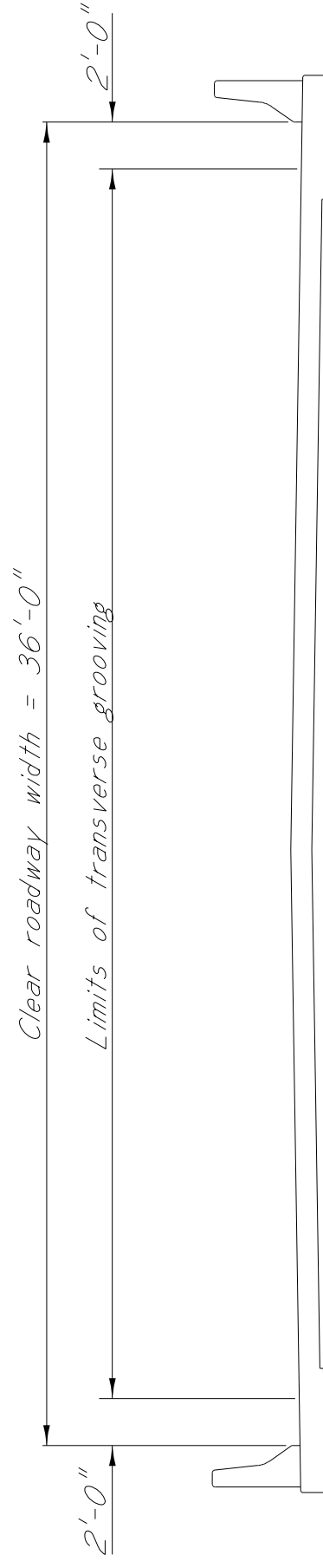
GENERAL NOTES:

All concrete in span shall be class "B0" \triangle "AA" \triangle . All concrete in railing shall be class "AA" \triangle . Chamfer all edges unless otherwise noted. See Layout sheet for finishing of concrete surfaces. Placing dimensions for reinforcing steel to concrete surfaces are clear distances. To determine the dimension from finish grade to cap, the assumption is made that the compressed thickness of the neoprene pad is as shown in table, and that the original camber of the beams will be within the limits shown on the Beam Detail sheets. The Director of Structures, State Bridge Engineer shall be notified if the cambers are not within these limits.



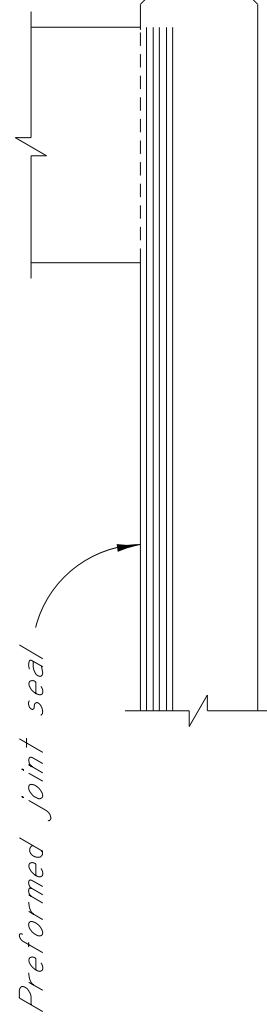
DETAIL "D"

SECTION W-W

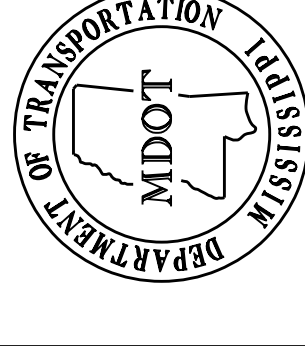


LIMITS OF TRANSVERSE GROOVING

NEOPRENE PAD THICKNESS TABLE	
PAD THICKNESS	COMPRESSED PAD THICKNESS
1"	15/16"



ELEVATION AT END OF SPAN

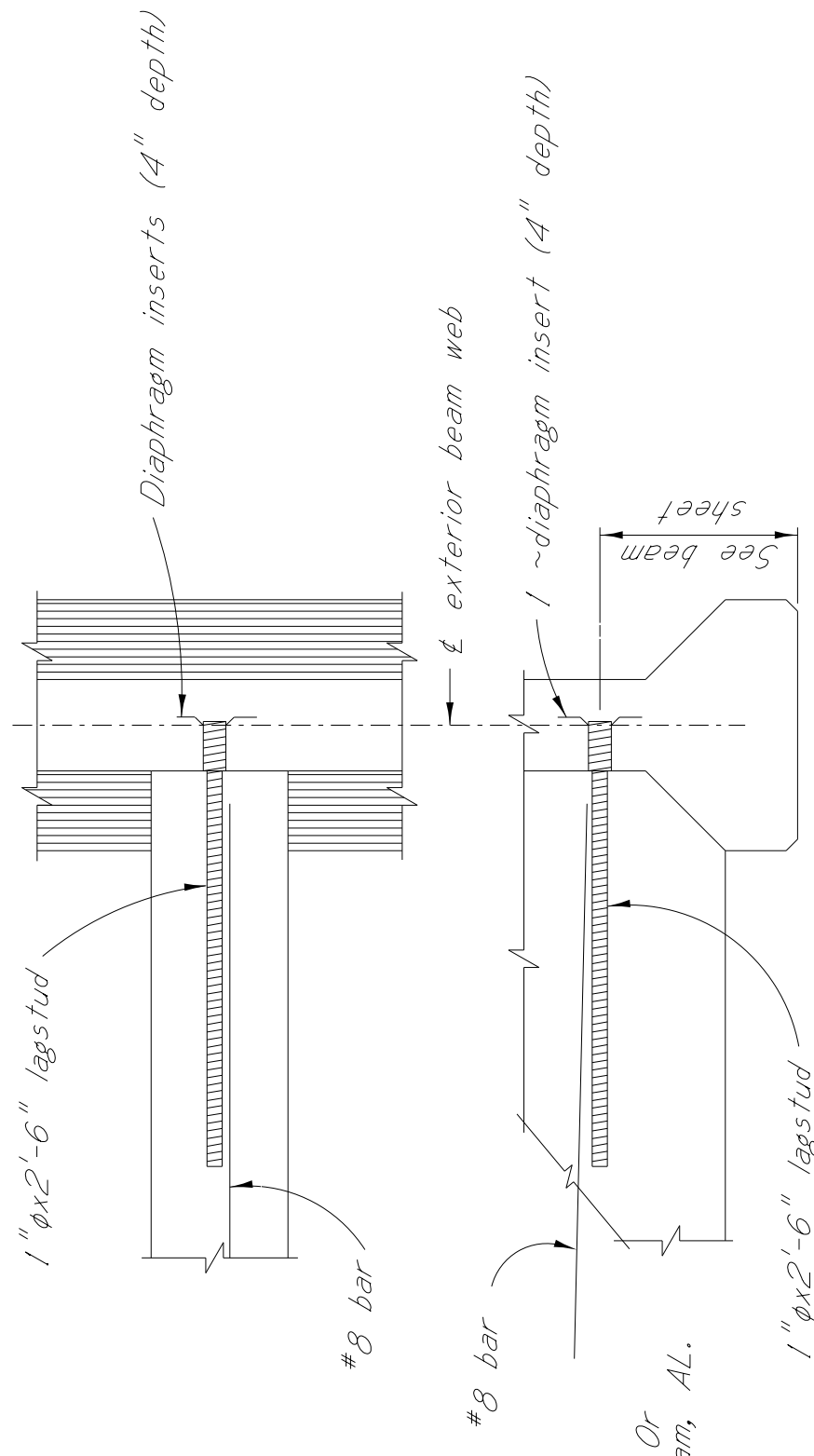


DATE: 11/18/2015

DESIGNER	Adam Jackson	CHECKER	Josh Wiltshire	WORKING NUMBER	B7 OF 10
DETAILER	Adam Jackson	ISSUE DATE	11/18/2015	SHEET NUMBER	8023
DATE	11/21/17	PROJECT	102383/303000	PROJECT	EXB-0051-02(024)
REVISIONS		TALLAHATCHIE	COUNTY		
BR		MISSISSIPPI DEPARTMENT OF TRANSPORTATION			
CD2		BRIDGE "B" AT STA. 537+18.88			
		MISCELLANEOUS SPAN DETAILS			

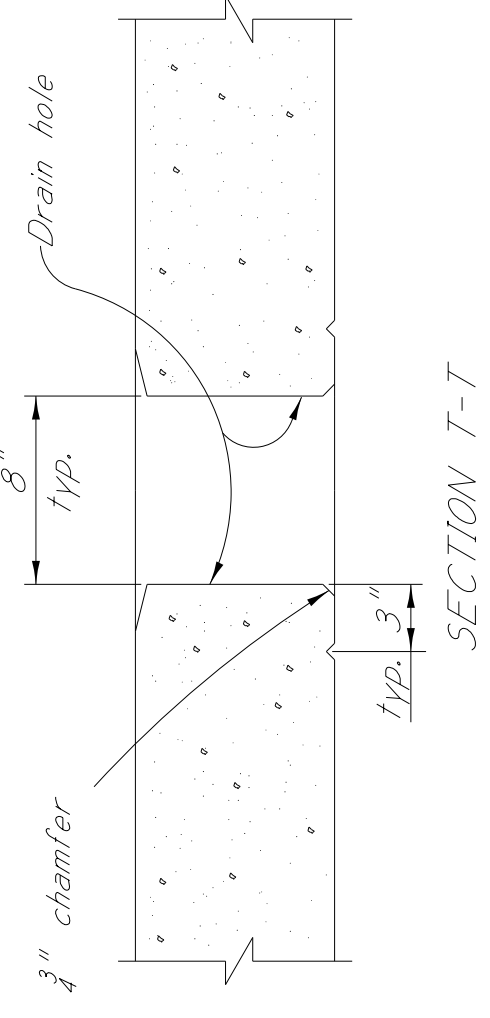
ADDENDUM

STATE	PROJECT NO.
MISS.	EXB-0051-02(024)



NOTE: Continuous threaded lagstuds and diaphragm inserts shall be as manufactured by the Richmond Screw Anchor Co., Inc., Atlanta, GA; By Meadow Steel Products Co., Inc., Birmingham, AL; or Dayton Superior Co., Inc., Birmingham, AL.

PART SECTION DIAPHRAGM INSERT AND LAGSTUD DETAILS

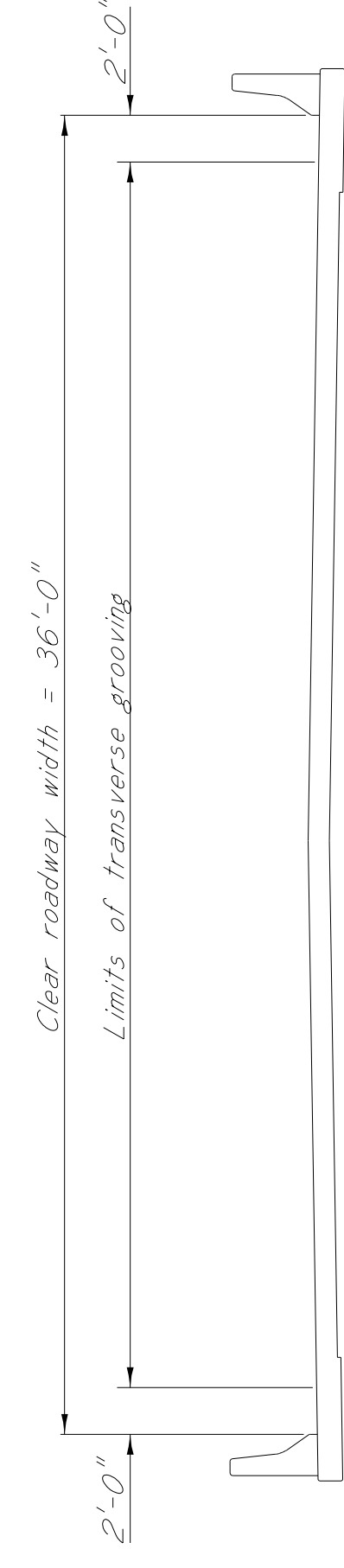


NOTE: Drain holes shall be located so that bars B & C will not be cut.

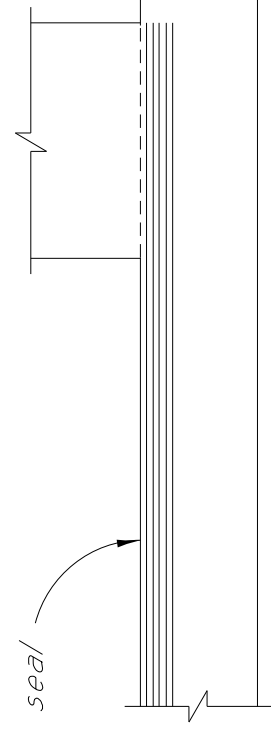


DRAIN HOLE DETAILS

Use where shown on the Span Detail sheet.

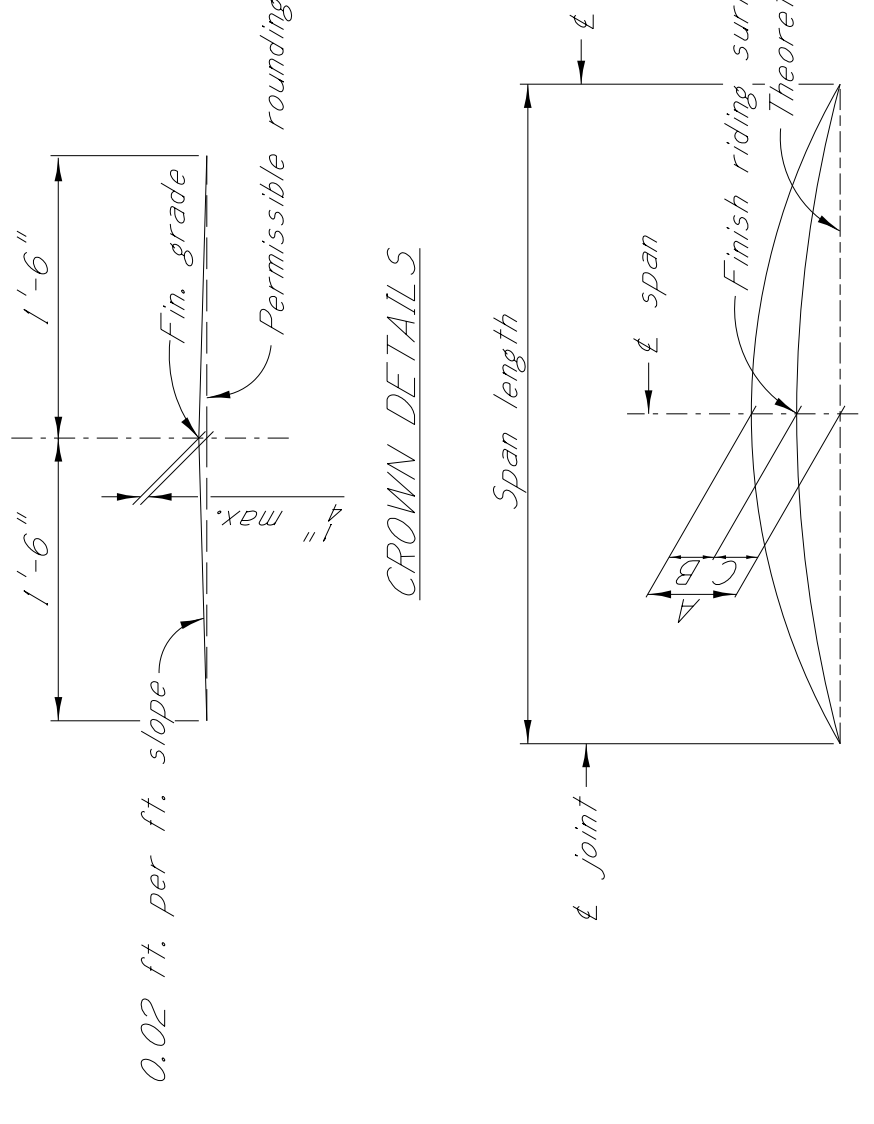


LIMITS OF TRANSVERSE GROOVING



ELEVATION AT END OF SPAN

NEOPRENE PAD THICKNESS TABLE	
PAD THICKNESS	COMPRESSED PAD THICKNESS
1"	15"
2 3/8"	24"



DEFLECTION DIAGRAM

A = total recommended allowance for deflection.
B = estimated deflection due to dead load of slab & rail.
C = A-B = net initial camber in riding surface, which includes an allowance for creep.

NOTE: For values of A, B & C, see Beam Detail sheets.

NOTE:

The Girder Deflection Diagrams shown in these plans were prepared and intended for design and estimation purposes only. Actual bridge girder deflections may differ from the deflection diagrams shown in these plans. It is the Contractor's responsibility to construct the bridge to meet the requirements of the plans and specifications including, but not limited to, the requirements for bridge deck smoothness. Prior to formwork construction, the Contractor shall submit three (3) copies of a proposed BRIDGE SUPERSTRUCTURE CONSTRUCTION PLAN to the Director of Structures, State Bridge Engineer for review, through the Project Engineer. This submittal shall include all calculations, assumptions and parameters used by the Contractor to determine bridge girder deflections and form grade elevations. This submittal shall also include an erection and construction procedure that addresses the construction means and methodologies used by the Contractor and shall consider effects including, but not limited to, construction loading, pouring schedules, applied permanent and details of temporary bracing systems used to ensure girder stability and counter the effects of shrinkage. The Contractor shall submit deck thickness calculations for each girder. These calculations shall include a comparison of the erected girder top flange profiles versus the plan deck grade elevations over each girder plus the anticipated girder deflection due to applied permanent dead load and creep. Three (3) copies of the deck thickness verification calculations and any proposed remediation measures to correct for thin deck areas shall be submitted to the Director of Structures, State Bridge Engineer for review, through the Project Engineer. The BRIDGE SUPERSTRUCTURE CONSTRUCTION PLAN and the deck thickness verification calculations shall be prepared and stamped by a Mississippi Registered Professional Engineer.

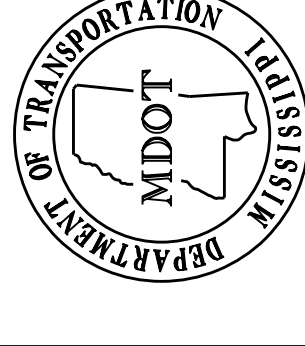
GENERAL NOTES:

All concrete in span shall be class "BD".
All concrete in railing shall be class "AA".
Chamfer all edges 4" unless otherwise noted.
See Layout sheet for finishing of concrete surfaces.
Placing dimensions for reinforcing steel to concrete surfaces are clear distances.
To determine the dimension from finish grade to cap, the assumption is made that the compressed thickness of the neoprene pad is as shown in table, and that the original camber of the beams will be within the limits shown on the Beam Detail sheets. The Director of Structures, State Bridge Engineer shall be notified if the cambers are not within these limits.

1. Joint installation and sealing on newly constructed bridge decks shall not be paid for directly and shall be considered an absorbed item of work.
2. The preformed joint seal shall be one of the following, installed according to the Manufacturer's specifications:
 - A. Silcoflex Joint Sealing System, manufactured by R.J. Watson, Inc. www.rjwatson.com
 - B. Webco SPS Joint System manufactured by Watson Bowman Acme Corporation www.wbacorp.com
 - C. Silspec SSS Silicone Strip Seal manufactured by SSI Commercial & Highway Construction Materials www.ssicm.com

NOTES:

3. For estimating purposes, The R.J. Watson Silcoflex 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 Manufacturer. 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 beam and span details.
4. Dimension "A" is defined as the design width of the joint opening, which does not account for the 4" seal required on both sides of the joint. Preformed Joint Seal, Type I, shall be used for design widths less than 24". Preformed Joint Seal, Type II, shall be used for design widths greater than or equal to 24", with the maximum design width being 28". In cases where design widths are greater than 28", another type of expansion material shall be required as directed by the Director of Structures, State Bridge Engineer.
5. 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.



DATE: 11/18/2015

DESIGNER	Adam Jackson	CHECKER	Spencer Yates
DATE	11/18/2015	ISSUE DATE	11/18/2015
REVISIONS		BRIDGE CONSTRUCTION	
BR		BRIDGE CONSTRUCTION	
C02		BRIDGE CONSTRUCTION	
MISSISSIPPI DEPARTMENT OF TRANSPORTATION BRIDGE "D" AT STA. 574+43.21			
MISCELLANEOUS SPAN DETAILS			
PROJECT 102383/303000		WORKING NUMBER	
TALLAHATCHIE COUNTY		D13 OF 15	
EXB-0051-02(024)		SHEET NUMBER	
		8057	
DEP. DIR. OF STRUCTURES, MISS. STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.E.			

ADDENDUM

V.P.C. Sta 642+80.00
Elev. 154.230

V.P.I. Sta 644+80.00
Elev. 154.83

V.P.T. Sta 646+80.00
Elev. 154.230

400 FT. VERTICAL CURVE

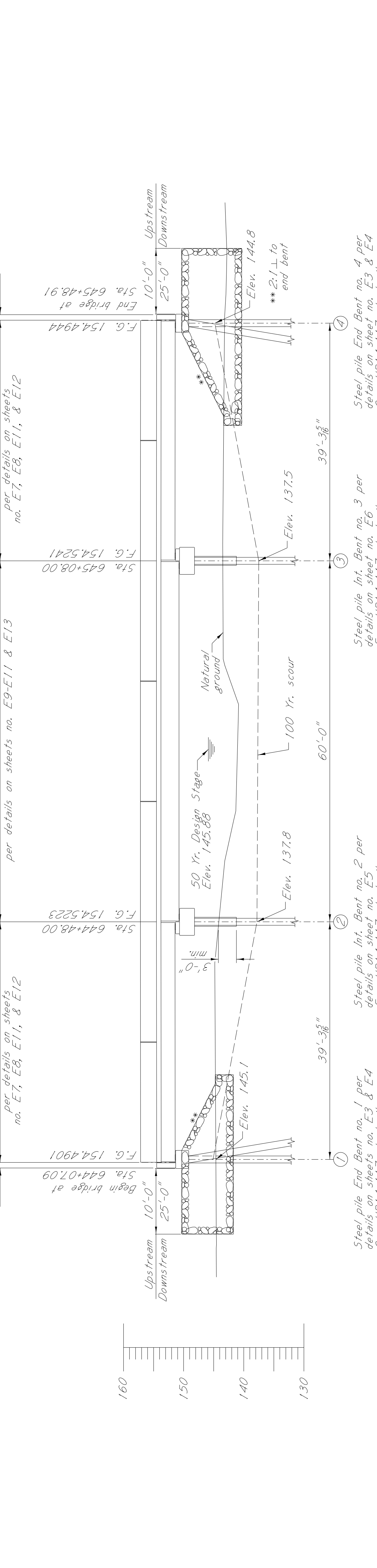
Total length of bridge 141'-5 7/8"

1 @ 40'-0" prestressed concrete beam span per details on sheets no. E7, E8, E11, & E12

1 @ 60'-0" prestressed concrete beam span per details on sheets no. E9-E11 & E13

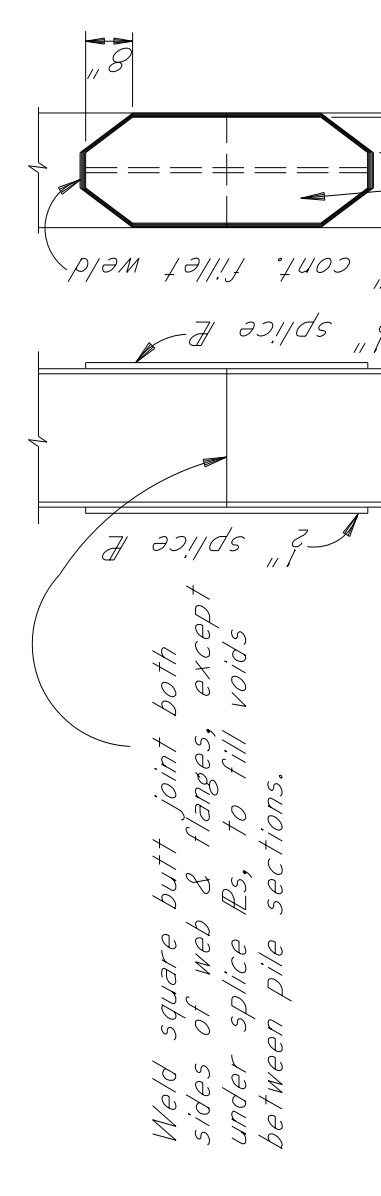
1 @ 40'-0" prestressed concrete beam span per details on sheets no. E7, E8, E11, & E12

1 @ 40'-0" prestressed concrete beam span per details on sheets no. E7, E8, E11, & E12

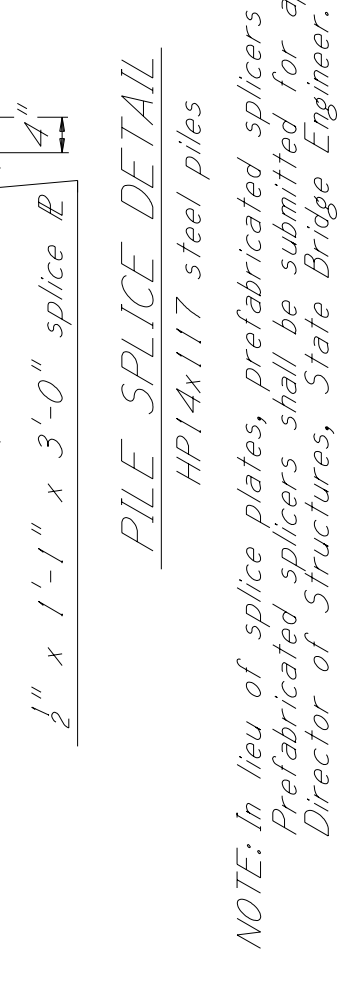


NOTE:
Geotextile fabric is required under all riprap. All riprap and geotextile fabric shown on the bridge plans are included in the bridge quantities.

Bent No.	Elevation
1	145.1
2	137.2
3	136.9
4	144.8



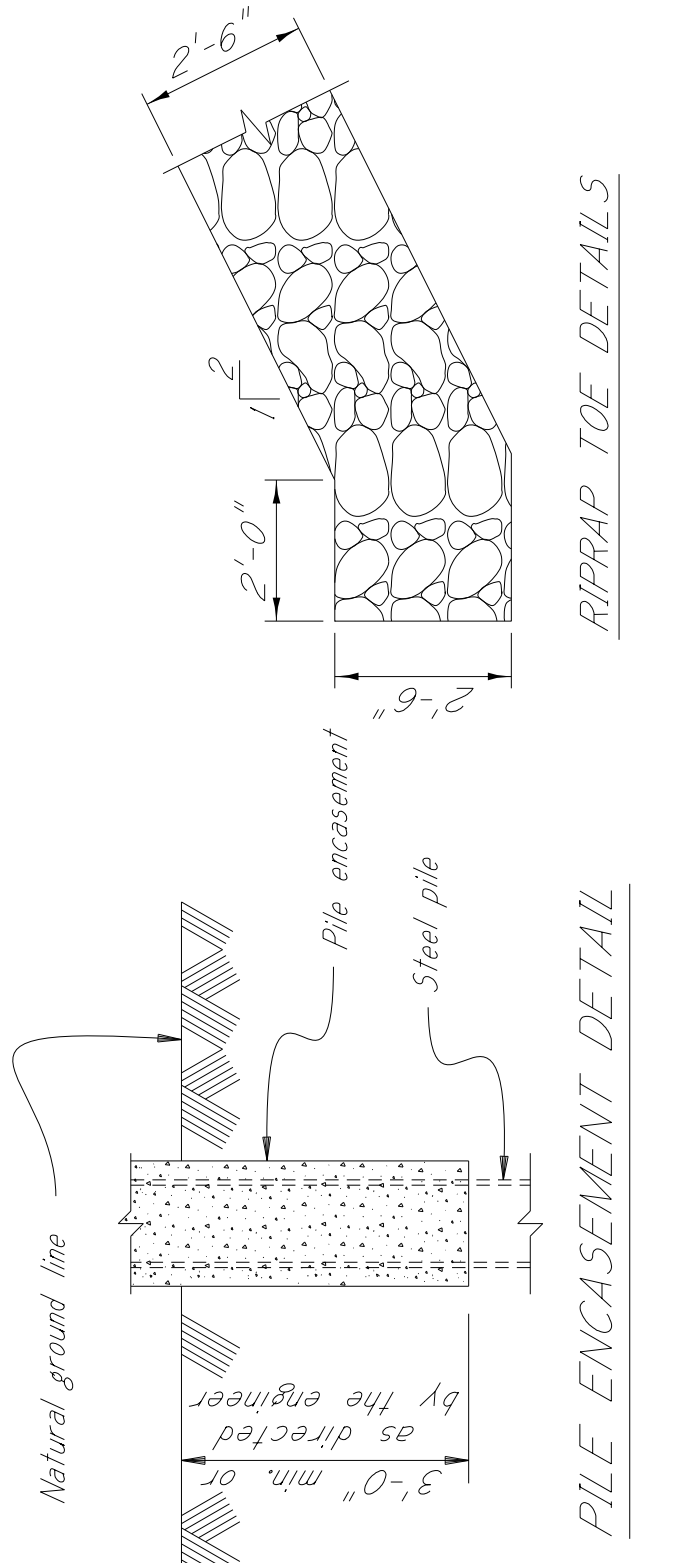
Bent No.	Min. Length (ft.)	Tip Elev.
2	75.0	73.9
4	60.0	89.8



NOTE: In lieu of splice plates, prefabricated splicers may be used. Prefabricated splicers shall be submitted for approval by the Director of Structures, State Bridge Engineer.

Bent No.	Pile Type & Size	Required Ultimate Bearing (tons)	Est. Length (ft.)	Controlling State	LRPD Resistance Factor	Tip Elevation
1	HP 14x11.7	106.95	50.0	Strength I	0.65	125.1
2	HP 14x11.7	164.39	65.0	Strength I	0.65	117.2
3	HP 14x11.7	164.39	65.0	Strength I	0.65	116.9
4	HP 14x11.7	106.95	50.0	Strength I	0.65	124.8

NOTE: The LRPD Load Resistance Factor of 0.65 has been applied to the Required Ultimate Bearing



NOTE:
The girder deflection diagrams shown in these plans were prepared and intended for design and estimation purposes only. Actual bridge girder deflections may differ from the deflection diagrams shown in these plans. It is the Contractor's responsibility to construct the bridge to meet the requirements of the plans and specifications including, but not limited to, the requirements for bridge deck smoothness. Prior to formwork construction, the Contractor shall submit three (3) copies of a proposed BRIDGE SUPERSTRUCTURE CONSTRUCTION PLAN to the Director of Structures, State Bridge Engineer for review, through the Project Engineer. This submittal shall include all calculations, assumptions and parameters used by the Contractor to determine bridge girder deflections and form grade elevations. This submittal shall also include an erection and construction procedure that addresses the construction means and methodologies used by the Contractor and shall consider effects including, but not limited to, construction phasing, pouring schedules, applied permanent and construction loading, and shall include calculations and details of temporary girder bracing tilt. After girder erection and prior to deck construction, the Contractor shall submit deck thickness verification calculations for each girder. These calculations shall include a comparison of the erected girder top flange profiles versus the plan deck grade elevations over each girder. Three (3) copies of the deck thickness verification calculations and any proposed remediation measures to correct for thin deck areas shall be submitted to the Director of Structures, State Bridge Engineer for review, through the Project Engineer. The BRIDGE SUPERSTRUCTURE CONSTRUCTION PLAN and the deck thickness verification calculations shall be prepared and stamped by a Mississippi Registered Professional Engineer.

Item	Transverse Grooving	Conventional Static Pile Load Test	HP 14x11.7 Steel Piling	PDA Test Pile	Pile Restrike	Bridge Class AA	Bridge Class BD	40 Ft. Prestressed Conc. Beams Type 1+2 L.F.	60 Ft. Prestressed Conc. Beams Type 1+2 L.F.	Concrete Railing	Loose Riprap (300')	Geotextile Fabric Under Riprap
Location	S.Y.	Each	L.F.	Each	Each	C.Y.	C.Y.	L.F.	L.F.	L.F.	Ton	S.Y.
Spans	497.78		850.0		1	157.54	157.54	397.50	298.75	280.00	459.0	569.0
End bents			585.0		1	48.12	49.69		8508	3.00		
Int. bents			1,435.0		2	97.81	157.54	298.75	42.103	283.00	459.0	569.0
Totals	497.78	1	1,435.0	2	2	253.47	315.08	696.25	5224	283.00	459.0	569.0

SEISMIC DESIGN DATA:
Seismic Performance Zone: Zone 2
Site Class Definition: Site Class "D"
Importance Category: Other

DATE: 11/18/2015

GENERAL NOTES:
Specifications: Mississippi Standard Specifications For Road and Bridge Construction, 2017.
No change of plans will be permitted except by written approval of the Director of Structures, State Bridge Engineer. Minor changes in detail of design or construction procedure may be authorized by the Director of Structures, State Bridge Engineer provided such changes will not be cause for contract price adjustment.
The final surface texture of the bridge deck shall be mechanically transverse grooved in accordance with Sections 501 And 804 of the specifications. See Misc. Span Details for limits of transverse grooving on bridge deck. Bridge concrete shall be Class "AA" or Class "BD" as noted in plans. Railing expansion joint material shall be bituminous fiber type unless otherwise noted.
No payment will be allowed for excavation incidental to the construction of end bents.
Bar bending details shall be in accordance with "Manual of Standard Practice for Detailing Reinforced Concrete Structures," (ACI 315R-94).
Reinforcement order lists and required placing plans shall be furnished in accordance with Section 805 of the Mississippi Standard Specifications. Partial submittals are not acceptable.
Shop drawings of prestressed beams, including an erection plan, shall be submitted in duplicate to the Director of Structures, State Bridge Engineer for approval prior to the manufacture of beams. Concrete surfaces shall receive a Class 2 rubbed or spray finish in accordance with the specifications.
Reinforcing steel shall be ASTM A615, Grade 60, unless otherwise noted.
Work for which no pay item is provided in the proposal will not be paid for directly and compensation therefor will be included in the prices and payments for bid items.

STEEL PILE NOTES:
Test piles shall be driven as permanent piles at the location shown in the PDA TEST PILE SCHEDULE and will be paid for as test piles only.
The Director of Structures, State Bridge Engineer may authorize Test piles driven outside the structural limits.
Bearing capacity and the minimum ground penetration shown in the PDA TEST PILE SCHEDULE unless otherwise directed by the Director of Structures, State Bridge Engineer.
Permanent piles shall be driven to an elevation no higher than the elevation shown in the REQUIRED ULTIMATE PILE BEARING CAPACITY AND TIP ELEVATION SCHEDULE.
The PDA TEST PILE SCHEDULE, unless otherwise directed by the Director of Structures, State Bridge Engineer, shall be determined by the scour line.
When feasible, bearing piles shall be driven full length and be spliced, only as approved by the Director of Structures, State Bridge Engineer.
Welding shall be done by the ELECTRIC ARC process. Welders shall be certified and electrodes shall be approved.
When loading tests are required, the maximum test load shall be one and one half (1 1/2) times the minimum pile bearing capacity.
PDA test piles shall require a 1 day and 7 day restrike unless otherwise directed by the Engineer.
Pile lengths and driving criteria shall be provided based on the results of the PDA test piles.
The required ultimate pile bearing shown in the REQUIRED ULTIMATE PILE BEARING CAPACITY AND TIP ELEVATION SCHEDULE includes the LRPD resistance factor for PDA of 0.65.
Pile hammer leads used for all PDA test piles and PDA restrikes shall be large enough to provide a minimum of 3" of clearance on each side of the pile in order to properly place and protect PDA gages.
Steel HP section piles shall be driven with a Pile Hammer with a maximum rated energy no less than 62,000 ft-lbs, to the tip elevations specified.
Steel for steel piling shall be ASTM A572, Grade 50.

DRAINAGE DATA:
Drainage area 2.63 sq. mi.
Total 650 (U.S.G.S.) 2.76 c.f.s.
Effective area 7.76 sq. ft.

DESIGN DATA:
Specifications: A.A.S.H.T.O., LRFD 2014
Roadway width: 30'-0" gutter to gutter
Concrete: Class "AA" (14,000 p.s.i.)
Class "BD" (14,000 p.s.i.)
Stay-in-place metal deck forms: 18 psf (between stringers)

DATE	REVISIONS	WORKING NUMBER
11/21/17 <td>Specifications Years Bridge Conc. Classes</td> <td>E1 OF 14</td>	Specifications Years Bridge Conc. Classes	E1 OF 14

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
BRIDGE "E" AT STA. 644+07.09
SR 32 ACROSS HUBBARD CREEK TRIBUTARY LAYOUT
PROJECT 102383/303000
EXB-0051-02(024)
TALLAHATCHIE COUNTY

CHECKER: Koren Beckman
ISSUE DATE: 11/18/2015
DESIGNER: Adam Jackson
DATE PLOTTED: 11/18/2015
DEP. DIR. OF STRUCTURES, MISS. STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.E.

SHEET NUMBER 8060