STATE	PROJECT NO.
MISS.	EXB-0400-00(035)

DESCRIPTION OF SHEETS SPECIAL DESIGN SHEETS BRIDGE DRAWING	WORKING NUMBER	SHEET NUMBER
DETAILED INDEX (BRIDGE)	DI-BR	8001
BRIDGE AT STA. 418+27.00 S. R. 465 ACROSS MUDDY BAYOU BRIDGE REPAIR	1 OF 5	8002
PILE REPAIR DETAILS	2 OF 5	8003
FALSE BENT INSTALLATION DETAILS	3 OF 5	8004
30 FT. SPAN FALSE BENT DETAILS	4 OF 5	8005
80 FT. SPAN FALSE BENT DETAILS	5 OF 5	8006

SUPPLEMENTAL ORIGINAL PLANS (FOR INFORMATION ONLY)	SHEET NUMBER
INFORMATION ONLY PLANS	8007 - 8024

BRIDGE DIVISION		
REVISIONS		
DATE	SHEET NO.	BY

DEPARTMENT OF TRANSPORTATION MDOT MISSISSIPPI

REVISIONS BY

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DETAILED INDEX
(BRIDGE)

PROJECT 107560/301000
EXB-0400-00(035)

WARREN COUNTY

WORKING NUMBER
DI-BR

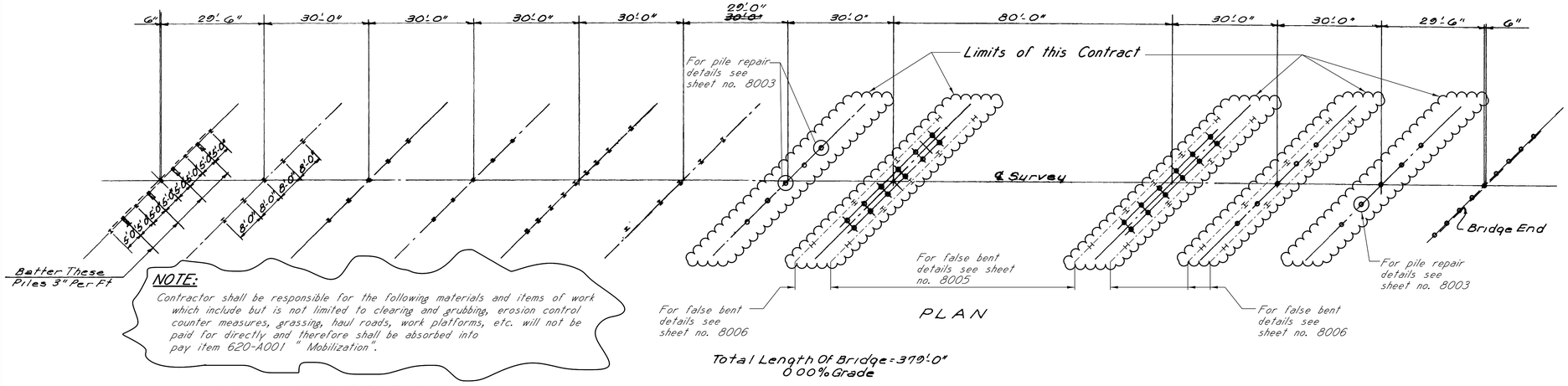
DATE

DESIGNER Paul T. Dees CHECKER Chris Duncan
DETAILER Paul T. Dees ISSUE DATE 4/17/2017

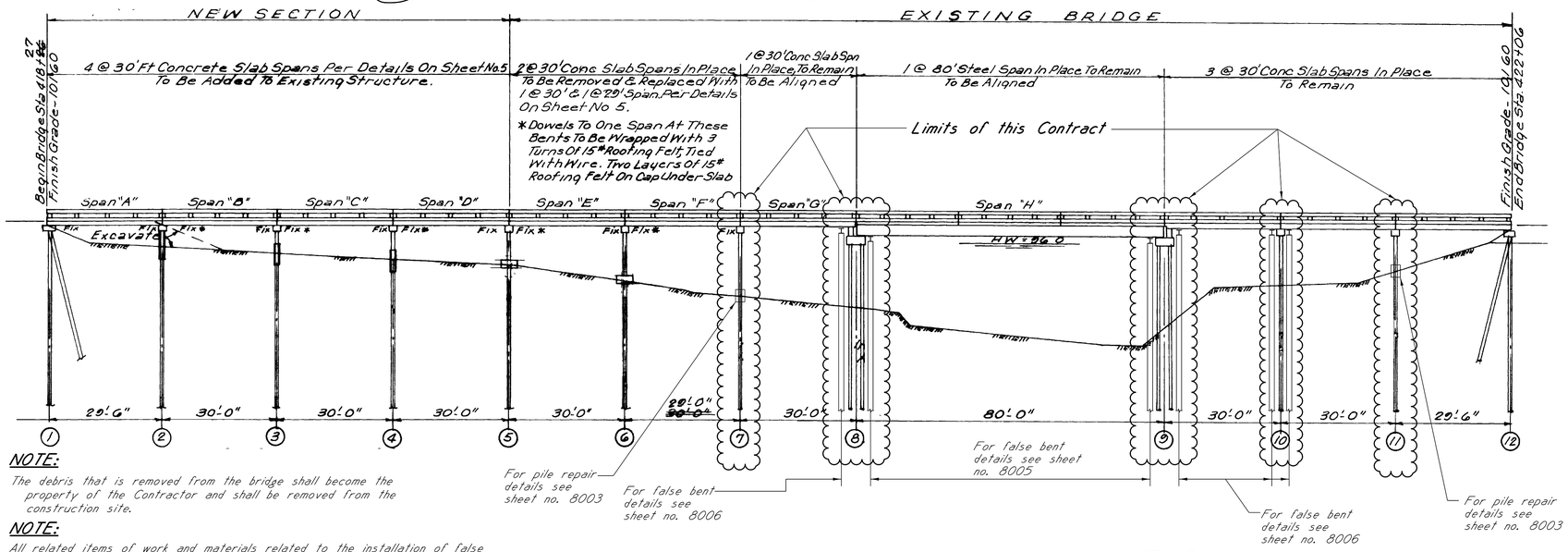
DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - JUSTIN WALKER PE.
DEP. DIR. OF STRUCTURES, ASSIST. STATE BRIDGE ENGINEER - SCOTT WESTERFIELD PE.

SHEET NUMBER
8001

STATE	PROJECT NO.
MISS.	EXB-0400-00(035)



Total Length Of Bridge = 379'-0"
0.00% Grade



NOTE:

Contractor shall be responsible for the following materials and items of work which include but is not limited to clearing and grubbing, erosion control counter measures, grassing, haul roads, work platforms, etc. will not be paid for directly and therefore shall be absorbed into pay item 620-A001 " Mobilization".

NOTE:

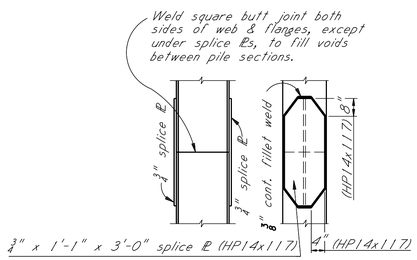
The debris that is removed from the bridge shall become the property of the Contractor and shall be removed from the construction site.

NOTE:

All related items of work and materials related to the installation of false bents will not be paid for directly and therefore shall be considered as an absorbed item which includes but is not limited to removing and replacing portion of the bridge deck, cross bracing, pile cap fabrication, neoprene pads, shim plates, and gusset plates..

ESTIMATED QUANTITIES

PAY ITEM NO.	PAY ITEM	QUANTITY	UNIT
620-A001	Mobilization	1	Lump Sum
803-B001	Conventional Static Pile Load Test	1	Each
803-I003	PDA Test Pile, HP Steel Pile	1	Each
803-J001	Pile Restrike	1	Each
907-824-PP003	Bridge Repair, Painting Welded Connections	750	Sq Ft
907-824-PP006	Bridge Repair, Timber Piling Repair	3	Each
907-824-PP006	Bridge Repair, Removal and Replacement Of Timber Cross Bracing	4	Each
907-824-PP006	Bridge Repair, Installation Of HP Piling False Bents	6	Each



PILE SPLICE DETAIL

HP 14x117 steel piles

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.*

SCOPE OF WORK:

1. Install false bents at bents 8, 9 and 10 as shown above.
2. Repair timber piles at bents 7 and 11 as shown above.
3. Remove and replace timber cross bracing on bents 7 & 11 according with details on sheet no. 8003.
4. Paint all welded connections with encapsulating paint.

MAINTENANCE OF TRAFFIC:

Maintenance of traffic shall be maintained by the Mississippi Department of Transportation.

NOTE:

For additional notes and detailssee sheet no. 8002 - 8006.

INFORMATION PLANS:

Original Plans (Proj. No. S-0400(2)A & SP-13250(3))
For Information Plans See Sheets No. 8007-8024.

PDA TEST PILE SCHEDULE

Bent No.	Min. Lgth-FT.	Re'd bearing (tons)
9	140	77

MINIMUM PILE BEARING CAPACITY SCHEDULE

Bent no.	Pile type	Re'd bearing (tons)	Est. length (ft.)
8 & 9	HP14x117	77	140
10	HP14x117	77	140

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 of 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.
Prior to construction, dimensions and elevations of the existing structure shall be field verified by the Contractor. The Contractor shall be responsible for adjusting the elements of the new construction to ensure proper fit with existing structure.
During construction, care shall be exercised to ensure that no debris falls into the hydraulic crossing.
Structural steel shop drawing will not be required for the false bents.
Any damage to the bridge resulting from the installation of false bents, temporary shoring, timber piling or cross bracing shall be repaired by the Contractor at no additional cost to the State.
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.

STRUCTURAL STEEL NOTES:

Prior to construction, certification for all welders and a procedure for storage and handling of welding electrodes to be used on this project shall be submitted to the Director of Structures, State Bridge Engineer through the Project Engineer for approval.
Welding shall be done by the electric arc process.
Fabrication of the pile caps shall be the Contractors responsibility and absorbed into the pay item for installation of the false bents.
All structural steel (plates, angles and HP-shapes) shall conform to A.S.T.M. designation A709, Grade 50.
All structural steel shall be new.
All diaphragm field connections shall be made with ¾" diameter A.S.T.M. A325, type 1 bolts, galvanized
Each high strength bolt shall be tightened to provide, when all bolts in the joints are tight, at least a minimum tension as follows: ¾" dia. bolts --- 28,400 lbs.
Nuts and washers shall conform to A.S.T.M. A563, grade DH and A.S.T.M. F436, galvanized.
Nuts shall be heavy hex.
Nuts shall be tapped oversize the minimum amount required for proper assembly.
All welded connections shall be painted with a encapsulating paint.
Prior to construction, the Contractor shall provide technical data for the proposed encapsulating paint to be used on this project to the Director of Structures, State Bridge Engineer for approval.
Contractor shall design a containment system to prevent the paint from falling into the hydraulic crossing below. The containment system shall be submitted to the Director of Structures, State Bridge Engineer for approval.
New paint shall be applied by hand, with either a brush or roller.

PILE NOTES:

All steel piling and PDA test pile will be provided by the State.
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 structure limits.
Test piles shall be driven as a continuous operation, to the bearing capacity and the minimum length shown in the PDA TEST PILE SCHEDULE, unless otherwise directed by the Director of Structures, State Bridge Engineer.
Permanent piles shall be driven to the estimated length shown in the MINIMUM PILE BEARING CAPACITY SCHEDULE.
When feasible, bearing piles shall be driven full length and shall 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 shall be one and one half (1 1/2) times the minimum pile bearing capacity.
PDA test piles may 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.
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.

DEPARTMENT OF TRANSPORTATION MDOT MISSISSIPPI

REVISIONS BY

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
BRIDGE AT STA. 418+27.00
SR 465 OVER MUDDY BAYOU

BRIDGE REPAIR

PROJECT 107560/301000
EXB-0400-00(035)

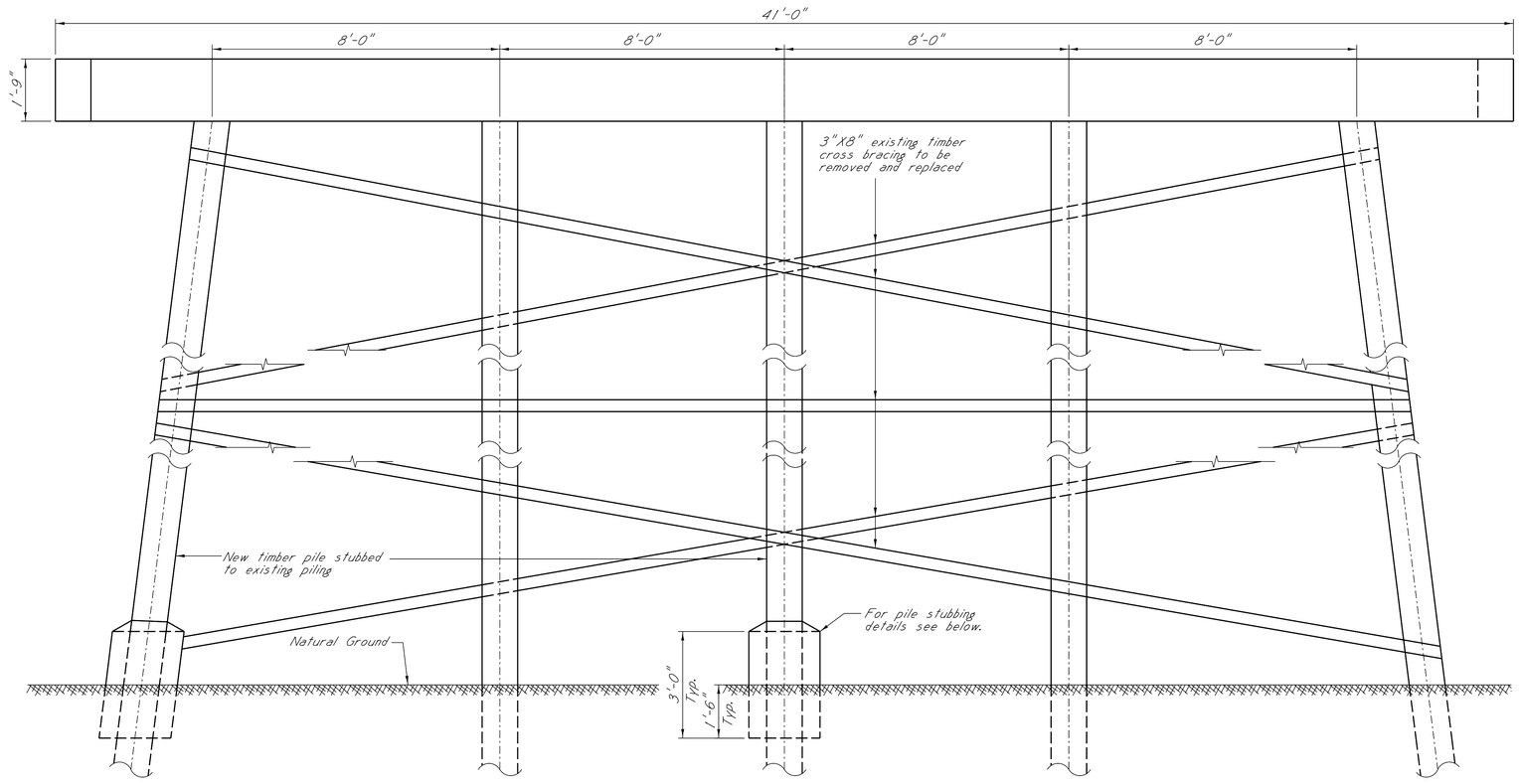
WARREN COUNTY

WORKING NUMBER 1 OF 5

DATE
DESIGNER Paul T. Dees CHECKER Chris Duncan
DETAILER Paul T. Dees ISSUE DATE 04/17/2017
DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - JUSTIN WALKER, P.E.
DEP. DIR. OF STRUCTURES, ASST. STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.E.

SHEET NUMBER 8002

STATE	PROJECT NO.
MISS.	EXB-0400-00(035)

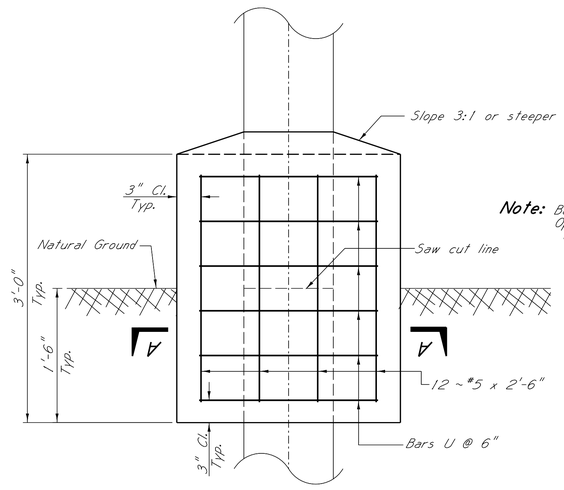


ELEVATION VIEW - PILE REPAIRS FOR BENT NO. 7

Showing pile repair locations
(Looking in increase station)

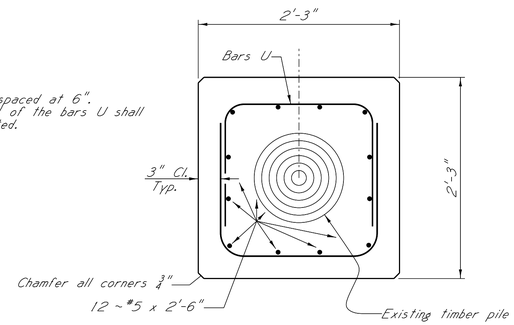
Note: Pile repair location for bent no.11 shown on sheet no. 8002. Pile repair details for bent no. 11 are similiar.

Note: The debris that is removed from the bridge shall become the property of the Contractor and shall be removed from the construction site.

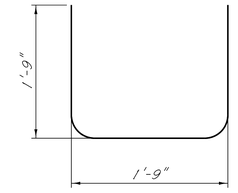


PILE STUBBING DETAILS

Note: Bars U spaced at 6". Open end of the bars U shall alternated.



SECTION "A-A"



Bars U - #5

BAR BENDING DETAILS

Dimensions are out to out

GENERAL NOTES:

All concrete shall be class "AA".
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.
Reinforcing steel shall be ASTM A615, grade 60, unless otherwise noted.
Placing dimensions from reinforcing steel to concrete surfaces are clear distances.
Chamfer all edges ¾" unless otherwise noted.
All timber piling and cross bracing shall be new.
All dimensions and details of the new timber piling and cross bracing shall be in accordance with the original plans that are attached as information plans.
New timber piling and cross bracing shall conform to section 820 of the Mississippi Standard Specifications.
All new timber piles and cross bracing shall be treated with Chromated Copper Arsenate (CCA).
All related items of work and materials related to the pile repair will not be paid for directly and therefore shall be considered as an absorbed item which includes but is not limited to temporary shoring, timber piling, concrete, reinforcement and excavation.

TEMPORARY SHORING NOTES:

The Contractor shall provide adequate shoring arrangement as required to support each of the existing concrete caps at each pile location to be repaired.
Each shoring arrangement shall support the span's dead load and construction loading for duration of the repairs.
The Contractor shall employ the service of a Mississippi Registered Professional Engineer who is knowledgeable in the field of Bridge Design.
A complete set of shoring arrangement plans along with design calculations shall be submitted to the Director of Structures, State Bridge Engineer through the Project Engineer for review prior to construction and shall bear the Design Engineer's Seal.
Any damage to the bridge resulting from uneven or improper shoring shall be repaired by the Contractor at no additional cost to the State.

DEPARTMENT OF TRANSPORTATION MDOT MISSISSIPPI

REVISIONS | BY

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
BRIDGE AT STA. 418+27.00
SR 465 OVER MUDDY BAYOU

BRIDGE REPAIR - PILE REPAIR DETAILS

PROJECT 107560/301000
EXB-0400-00(035)

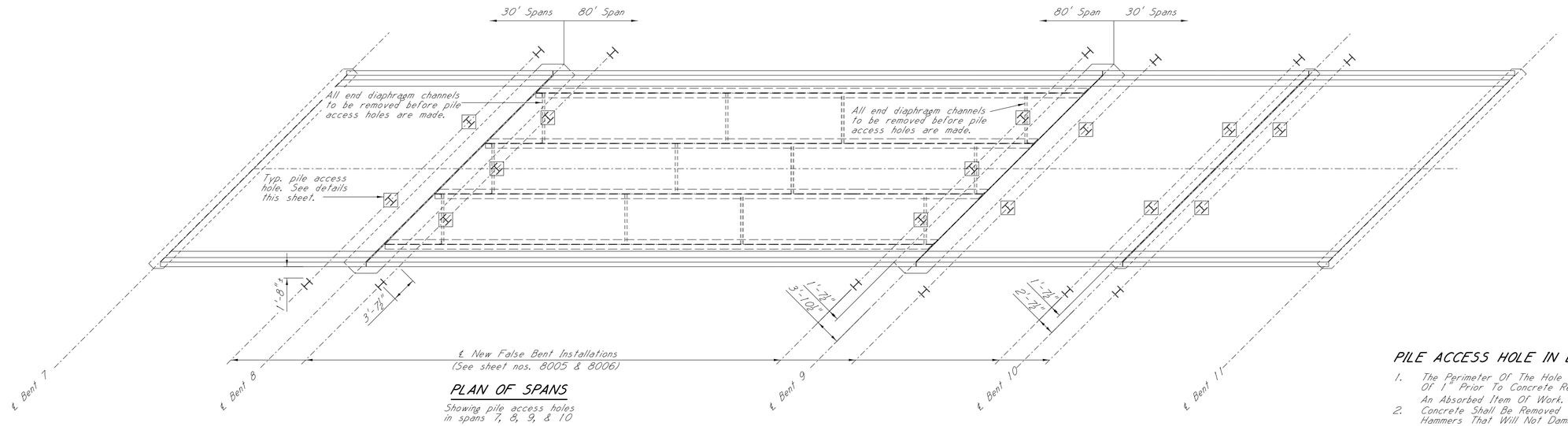
WARREN COUNTY

WORKING NUMBER 2 OF 5

DATE | DESIGNER Paul T. Dees | CHECKER Chris Duncan
DETAILER Paul T. Dees | ISSUE DATE 4/17/2017
DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - JUSTIN WALKER, P.E.
DEP. DIR. OF STRUCTURES, ASST. STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.E.

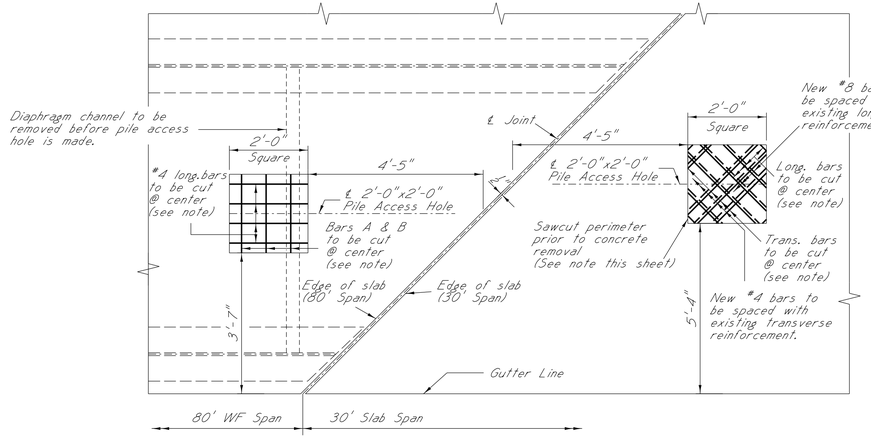
SHEET NUMBER 8003

STATE	PROJECT NO.
MISS.	EXB-0400-00(035)



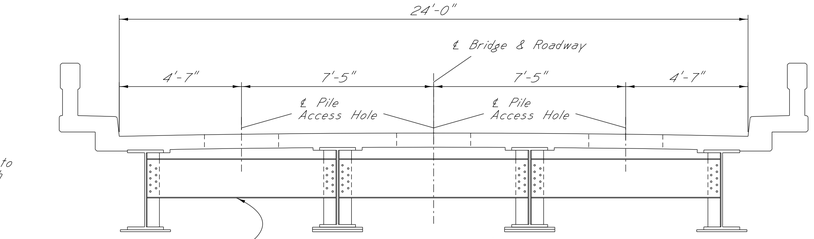
PLAN OF SPANS

Showing pile access holes in spans 7, 8, 9, & 10



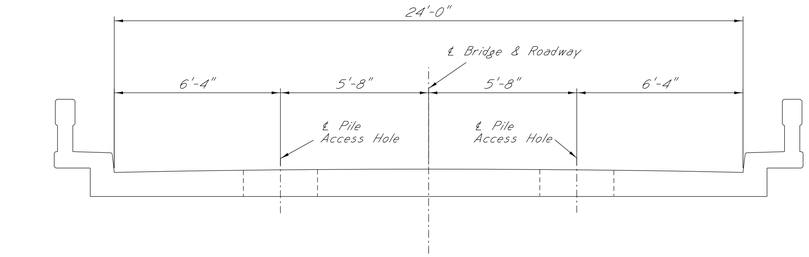
PILE ACCESS HOLE DETAILS

Showing approximate location of rebar and access holes from the gutter line.



ELEVATION OF 80' SPAN

Showing spacing of access holes



ELEVATION OF 30' SPAN

Showing spacing of access holes

NOTE:
For false bent details, see sheet nos. 8005 & 8006.

PILE ACCESS HOLE IN DECK:

1. *The Perimeter Of The Hole Shall Be Saw Cut To A Depth Of 1" Prior To Concrete Removal And Shall Be Considered An Absorbed Item Of Work.*
2. *Concrete Shall Be Removed With Small Handheld Chipping Hammers That Will Not Damage The Reinforcing Steel Or Surrounding Concrete.*
3. *Transverse And Longitudinal Reinforcing Steel Shall Be Cut Near The Center And Bent Clear. After Completion Of Pile Driving The Access Hole Shall Be Restored In Accordance With Details Hereon. All Bending Of Reinforcing Shall Be Done With The Use Of Controlled Heat In Accordance With Section 810.03.28.B Of The Specifications.*
4. *The New Concrete Shall Be High Early Strength Mix Concrete As Follows: The Concrete Mix Design Shall Be Furnished By the Contractor For Approval By Materials Division. Mixture Design Parameters Are As Follows:*

   Required Strength: 2500 psi before releasing to traffic
   Total Air Content: 3-6%
   Maximum Slump: 6 inches

   Non-Chloride Based Accelerator May Be Used If The Ambient Temperature Is 50°F or Less, But Shall Not Be Used If The Ambient Temperature Is Greater Than 50°F.

   Synthetic structural fibers shall be used. The Contractor shall select a Manufacturer from MDOT's Approved Products List, and the Manufacturer's recommendations shall be followed for the dosage rate.

   Curing is to be continuous until 2,500 psi is attained. Traffic is to be diverted from the repair area until this value is reached. The Contractor may use the Maturity Method per Section 804 to estimate the concrete compressive strength for the purposes of releasing the repair area to traffic. However, final acceptance of the in-place concrete shall be determined using eight concrete test cylinders, which shall be tested at 8, 16, and 24 hour intervals. The two remaining cylinders shall be used to determine the 28-day compressive strength of the concrete.
5. *Prior To Pouring New Concrete The Face Of The Access Hole Shall Be Painted With An Epoxy Binder Designed To Bond New Concrete To Old, Applied According To Manufacturers Recommendations.*
6. *The Surface Of The Newly Finished Deck Shall Match Existing Deck Surface.*
7. *Concrete Removal For Pile Holes In The Bridge Deck Will Not Be Paid For Directly And Therefor Will Be Considered Included In The Prices And Payments For Bid Items.*
8. *New Concrete For The Bridge Deck Will Not Be Paid For Directly And Therefore Will Be Considered Included In The Prices And Payments For Bid Items.*

——— - Denotes existing reinforcement to remain in place

– – – – – – – – - Denotes new reinforcement

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
BRIDGE AT STA. 418+27.00
SR 465 OVER MUDDY BAYOU
FALSE BENT INSTALLATION DETAILS

PROJECT 107560/301000
EXB-0400-00(035)

WARREN COUNTY

WORKING NUMBER 3 OF 5

SHEET NUMBER 8004

REVISIONS BY

DATE

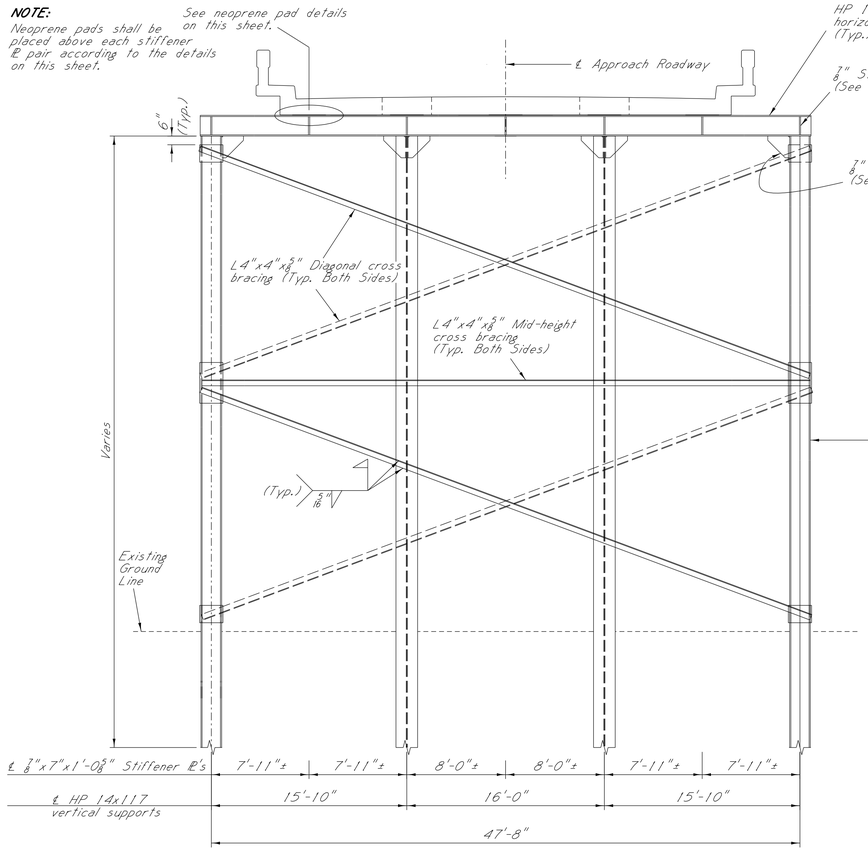
DESIGNER Chris Duncan CHECKER Paul Dees
DETAILER Chris Duncan ISSUE DATE 4/17/2017
DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - JUSTIN WALKER, P.E.
DEP. DIR. OF STRUCTURES, ASST. STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.E.

STATE	PROJECT NO.
MISS.	EXB-0400-00(035)

NOTE:
Steel shims may be used as necessary to ensure that superstructure bears on newly constructed false bents. Shims shall be secured to false bent with tack welds.

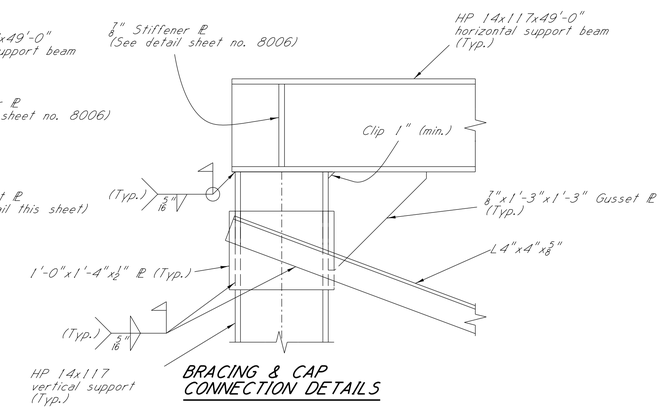
NOTE:
Steel plates and weld sizes are minimum allowed.

NOTE:
Neoprene pads shall be placed above each stiffener ℄ pair according to the details on this sheet.

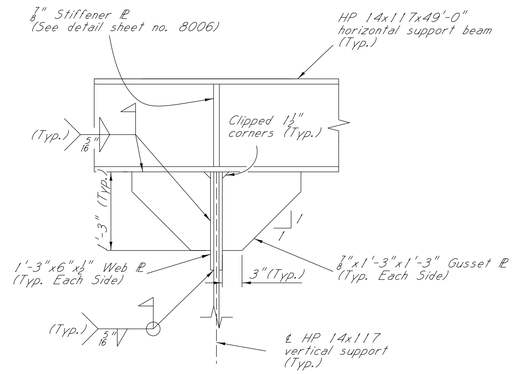


ELEVATION OF FALSE BENT

Showing false bents details to be installed under spans 7, 9, & 10 at bents 8, 9, & 10.

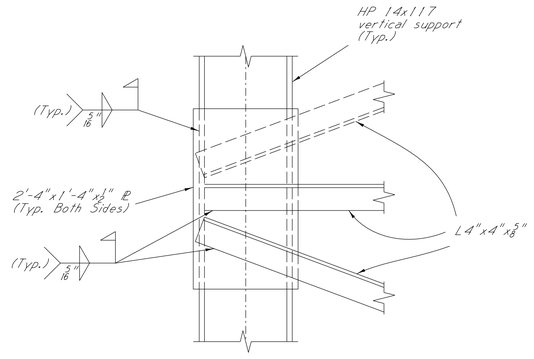


BRACING & CAP CONNECTION DETAILS

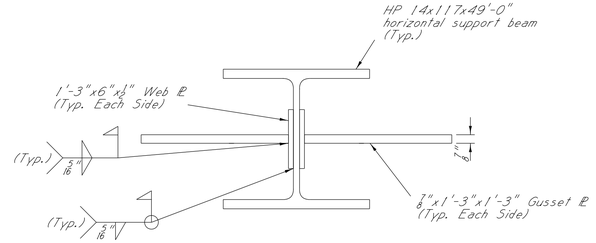


GUSSET PLATE DETAIL

Showing gusset ℘ dimensions & web ℘. Pile flange not shown for clarity.



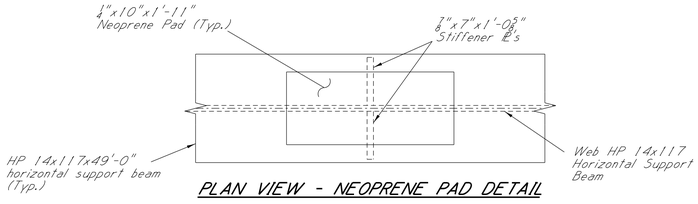
INTERMEDIATE BRACING CONNECTION DETAIL



GUSSET PLATE DETAIL PLAN VIEW

Showing gusset ℘ dimensions & web ℘.

NOTE:
For General Notes, Structural Steel Notes, and False Bent Installation details see sheet nos. 8002 and 8004.



PLAN VIEW - NEOPRENE PAD DETAIL

DEPARTMENT OF TRANSPORTATION MDOT MISSISSIPPI

REVISIONS BY DATE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
BRIDGE AT STA. 418+27.00
SR 465 OVER MUDDY BAYOU
30 FT. SPAN FALSE BENT DETAILS

PROJECT 107560/301000
EXB-0400-00(035)

WARREN COUNTY

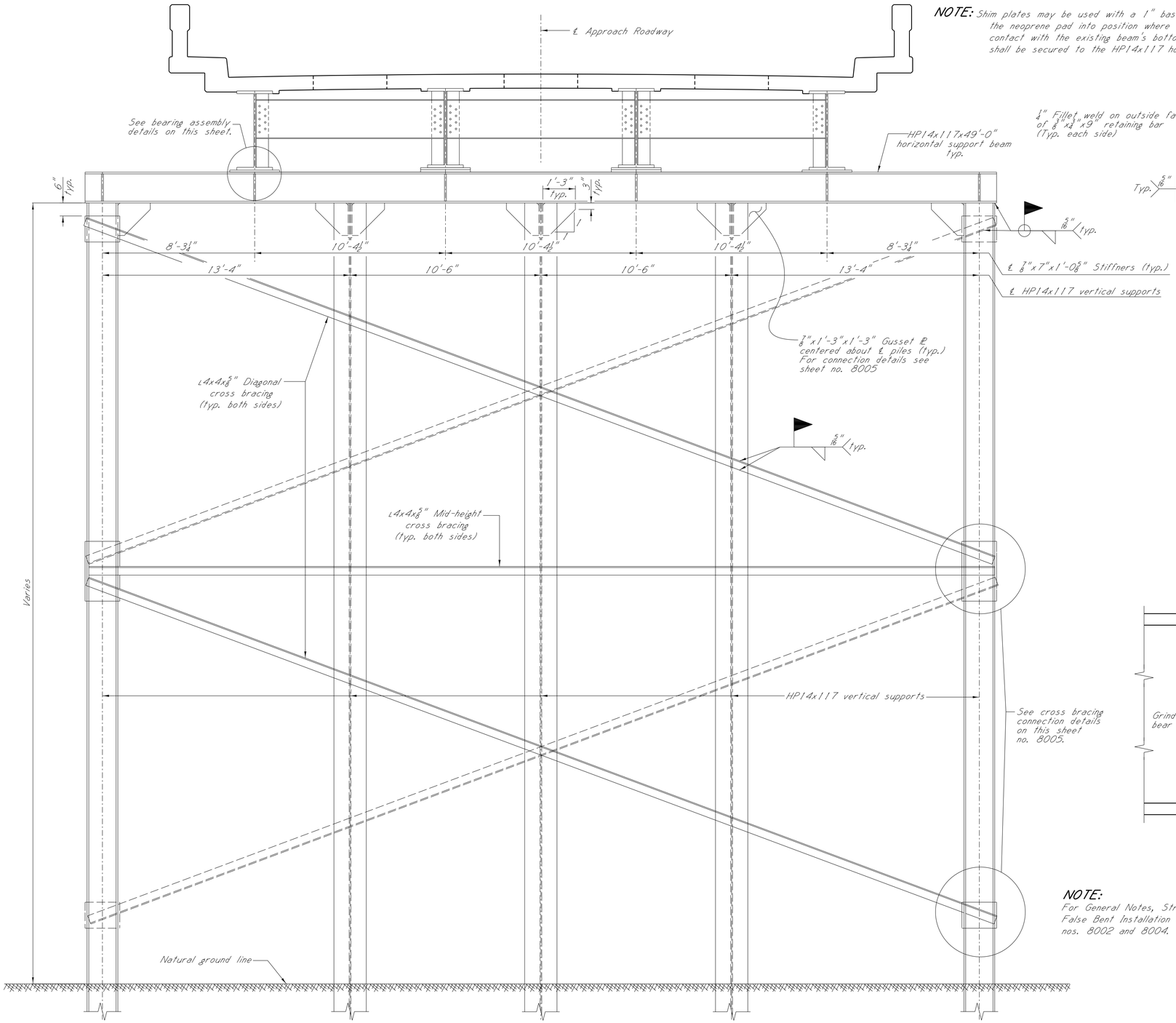
WORKING NUMBER 4 OF 5

DESIGNER Chris Duncan CHECKER Paul Dees
DETAILER Chris Duncan ISSUE DATE 4/17/2017
DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - JUSTIN WALKER, P.E.
DEP. DIR. OF STRUCTURES, ASST. STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.E.

SHEET NUMBER 8005

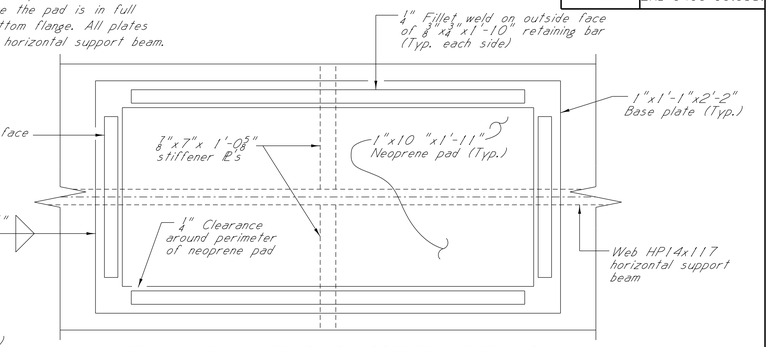
STATE	PROJECT NO.
MISS.	EXB-0400-00(035)

NOTE: *Shim plates may be used with a 1" base plate to secure the neoprene pad into position where the pad is in full contact with the existing beam's bottom flange. All plates shall be secured to the HP14x117 horizontal support beam.*

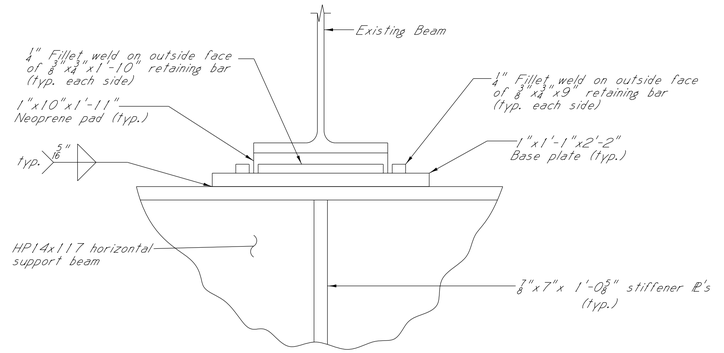


ELEVATION VIEW - FALSE BENT DETAILS

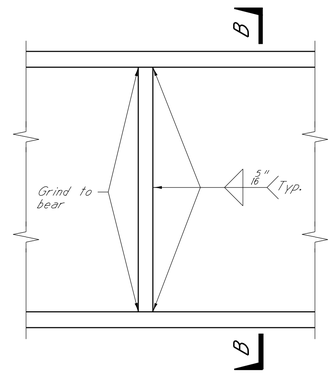
Showing false bents details to be installed under span 8 at bent 8 & 9



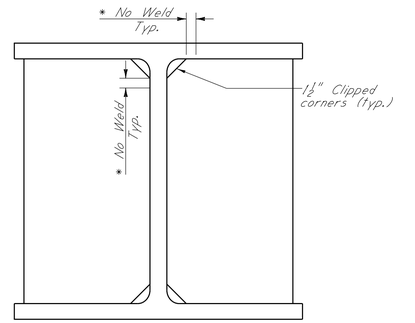
PLAN VIEW - BEARING ASSEMBLY DETAILS



ELEVATION VIEW - BEARING ASSEMBLY DETAILS



STIFFENER



SECTION B-B

** (1/4" To 1/2") ± 1/8" Typical*

NOTE: *Steel Plate Thickness And Weld Sizes Shown Are Minimum Allowed.*

NOTE:
For General Notes, Structural Steel Notes and False Bent Installation details see sheet nos. 8002 and 8004.

DEPARTMENT OF TRANSPORTATION MDOT MISSISSIPPI

REVISIONS | BY | DATE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
BRIDGE AT STA. 418+27.00
SR 465 OVER MUDDY BAYOU

80 FT. SPAN FALSE BENT DETAILS

PROJECT 107560/301000
EXB-0400-00(035)

WARREN COUNTY

WORKING NUMBER 5 OF 5

DESIGNER Paul T. Dees CHECKER Chris Duncan
DETAILER Paul T. Dees ISSUE DATE 4/17/2017

DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - JUSTIN WALKER, P.E.
DEP. DIR. OF STRUCTURES, ASST. STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.E.

SHEET NUMBER 8006

STA 414+00 BEG. OF PROJECT NO. S-0400(2)A CONTR. II
= STA. 414+00 OF PROJ. NO. S-0400(2)A
= STA. 414+00 OF PROJ. NO. S-0400(1)A

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.
4	MISS.	S-0400(2)A CONT. II	3

REVISIONS	
DATE	BY

410 415 420 425 430

MRS. VIRGIE SHEPHERD

40' 4'x6' cattlepass in place

To Vicksburg

N42° 51' W

418+27 ± 60' New Br. Abut.

410+46 ± 33' Pres. Br. Abut.

422+06 ± 18' Br. Abut.

LEROY BUTTS

To Brunswick

STA 426+70 END OF PROJ. NO. S-0400(2)A CONTR. II
STA 426+70 OF PROJ. NO. S-0400(2)A
= STA. 426+70 OF PROJ. NO. S-0400(1)A

140' ℄ Channel Change

MRS. VIRGIE SHEPHERD

LEROY BUTTS

10 ROW.M.

R.R. Rev. 96.80
Nailin 12" Pecan
75 Ft. Rt. 422+50

82.36
N.I.S. 18" Willow
150 Ft. Rt. 419+25

NOTE: SPOIL EXCAVATION ON TOP OF EXISTING BASE MATERIAL IN ROADWAY TO BE BLADED OFF ONTO SIDE SLOPES AND DRESSED PRIOR TO ACCOMPLISHMENT OF BASE WORK. REMOVAL OF THIS MATERIAL IS NOT A PAY ITEM.

FINAL PLANS OF COMPLETED WORK

Sta. 418+26 1@ 30' Spans Req'd.
Sta. 419+46 2@ 30' spans to be Removed & Replaced
1@ 30' span; 1@ 30', 3@ 30' spans TO BE ADJUSTED FOR ALIGNMENT (15° SKEW)

For Details of Channel Change see Sheets 3A, 3B & 3C

422+06 Br. Abut.

418+27 Br. Abut.

5775 NO HAUL

PROJ. NO. S-0400(2)A CONTR. II
BEGINNING OF PROJECT NO. S-0400(2)A
= 414+00 OF PROJECT NO. S-0400(1)A

426+70 END OF PROJECT NO. S-0400(2)A CONTR. II
= 426+70 OF PROJECT NO. S-0400(2)A
= 426+70 OF PROJECT NO. S-0400(1)A

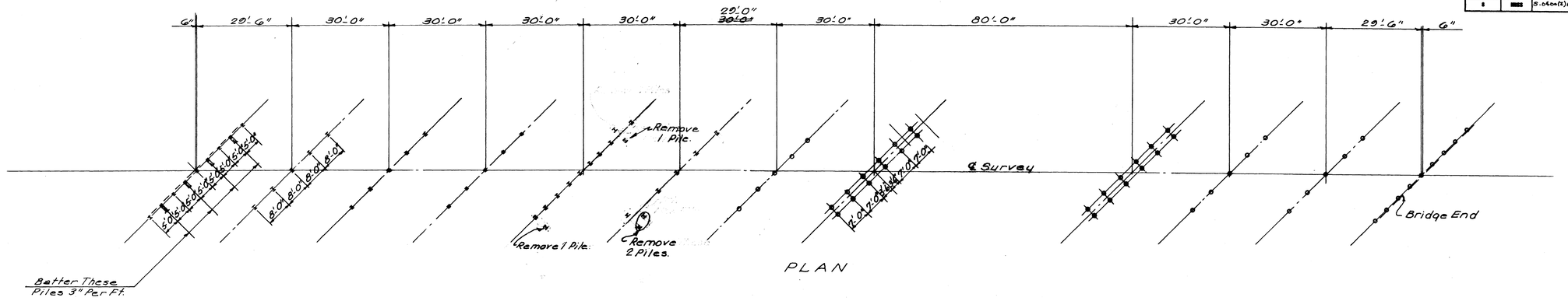
110 100 90 80 70

410 1 2 3 4 5 6 7 8 9 430

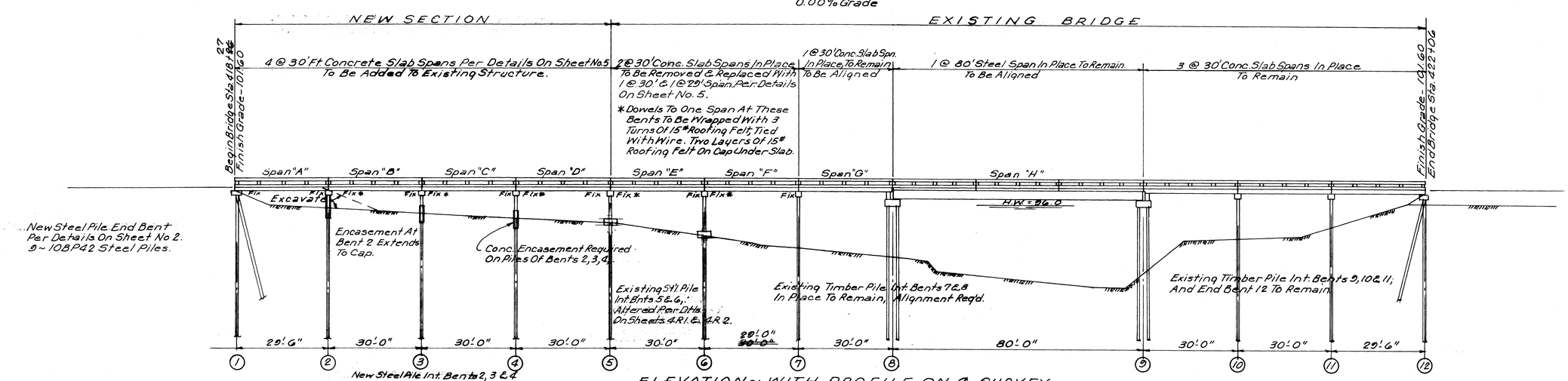
STATE 1-PLAN-PROFILE U.P.R. & M.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

S-0400(2)A CONT II 3

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
8	MISS	S-0400(2)A	19	I	VIII



Total Length Of Bridge = 379'-0"
0.00% Grade



ELEVATION ~ WITH PROFILE ON ℄ SURVEY
Scale: 1" = 16'-0"

MINIMUM PILE BEARING CAPACITIES

End Bents:	20 Tons
Int. Bents:	20 Tons

ESTIMATED QUANTITIES

Item / Location	Class "B" Bridge Conc. Cu. Yds.	Reinforcing Steel Lbs.	Railing (Concrete) Lin. Ft.	10BP42 Steel Piling Lin. Ft.	Loading Tests Units	Removal Of Existing Work Lump Sum	Alignment Of Existing Work Lump Sum
Spans	201.03	40,750	360				
End Bents	14.18	2,320		810			
Int. Bents	37.30	5,980		1,530			
Totals	252.51	49,050	360	2,340	2	Lump Sum	Lump Sum

GENERAL NOTES:

Specifications: Mississippi State Highway Department
No Unauthorized Change Of Plans Will Be Permitted.
Concrete In Railing Shall Be Class "A"; All Other Concrete Shall Be Class "B".
New Concrete Surfaces Shall Be Finished In Accordance With Art. 200.19 Of The Specifications And Drawing RF-1, No Finishing Is Required For Existing Concrete Surfaces.
Existing Steel Piles Indicated On Plans "To Be Removed" May Be Pulled Or Cut Off Two (2) Feet Below Ground Line.
Paint Steel Piles As Follows: New And Old Piles Two (2) Coats Super-Service Black (Koppers Co. Or Equivalent). Paint Shall Extend One Foot Plus Or Minus Below Ground. Steel & Existing Red Lead Coated Surfaces Of Piles Shall Be Cleaned Of Debris And Scale By Use Of Wire Brush Before Application Of Paint (Not Paint Req'd. Bnts 1 & 2).
New Piles (10BP42) Shall Be 90 Ft. Piles Driven To Cut-Off In Order To Secure Lateral Stability. The Required 20 Ton Bearing Will Probably Be Attained Before Final Penetration Is Reached. In Case Bearing Is Not Secured Load Test Shall Be Applied.
Dimensions, Alignment & Grades Of Existing Work Shall Be Checked At The Job Before Removal & Alignment Operations Are Begun.
All Work For Which No Pay Items Are Provided In The Proposal Will Not Be Paid For Directly And Compensation Therefor Will Be Considered Included In The Prices And Payments For Bid Items.
All Exposed Concrete Edges Shall Be Chamfered ¾" Unless Otherwise Noted.
Expansion Joint Material Shall Be Bituminous Fiber Type.

REMOVAL OF EXISTING WORK: Consists Of Removing Two 30 Ft. Concrete Slab Spans; Concrete Cap & 2 Steel Piles Of End Bent; Concrete Cap & 2 Steel Piles Of Int. Bent. All Items And Materials Removed From Bridge Become Property Of The Contractor. Concrete May Be Broken To Suitable Size And Used As Rip Rap. See Spec. Provision No. 662.

ALIGNMENT OF EXISTING WORK: Consists Of Aligning The Following: ~~Steel Piles Of Bents 5 & 6 Before New Caps Are Poured;~~ Timber Pile Bents 7 & 8; Conc. Slab Span "G"; 80 Ft. Steel Span "H". Alignment Of Bents 7 & 8 And Spans G & H Shall Be Performed In Such A Manner As To Avoid Undue Strain On Bents, Spans & Anchor Bolts. See Special Provision No. 663.

NEW WORK: Consists Of ~~Driving One Steel Pile At Bent 5 & One Steel Pile At Bent 6,~~ Constructing Complete Steel Pile Bents 1, 2, 3 & 4; Placing Concrete Pile Encasements At Bents 2, 3, 4; ~~5 & 6; New Caps On Bents 5 & 6,~~ And Constructing Five New 30 Ft. & One 29 Ft. Concrete Slab Spans. Alter Bents 5 & 6 Per Details On Shts. 4 R I & 4 R 2.

14953

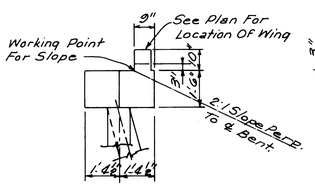
REVISIONS BY	DATE

MISSISSIPPI STATE HIGHWAY DEPARTMENT
BRIDGE AT STA. 418 + ~~26~~ 27
OVER MUDDY BAYOU
PROJECT S-0400(2)A CONTRACT II
WARREN COUNTY
SUBMITTED BY _____ BRIDGE ENGINEER

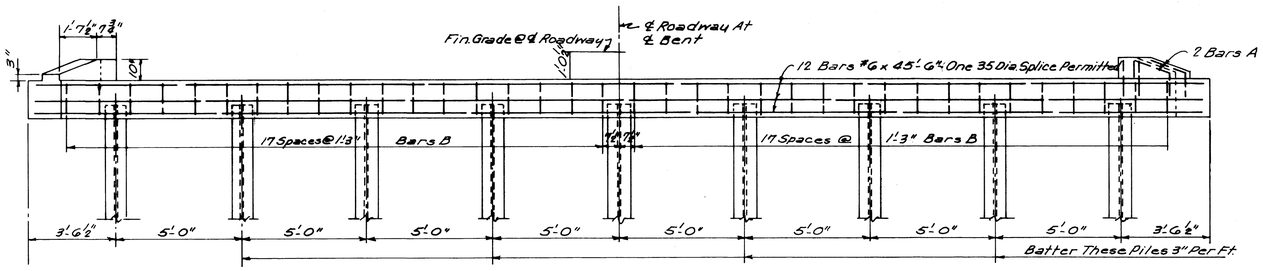
DETAILED EWE	CHECKED	ISSUED	SHEET NUMBER
TRACED EWE	DATE	DATE	1 OF 8

RIDGWAY ~ 130A IMPERIAL

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
8	MISS	S-0400(2)A	19	II	XIII

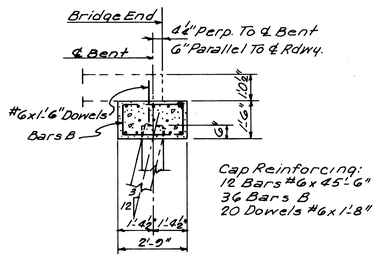


END ELEVATION

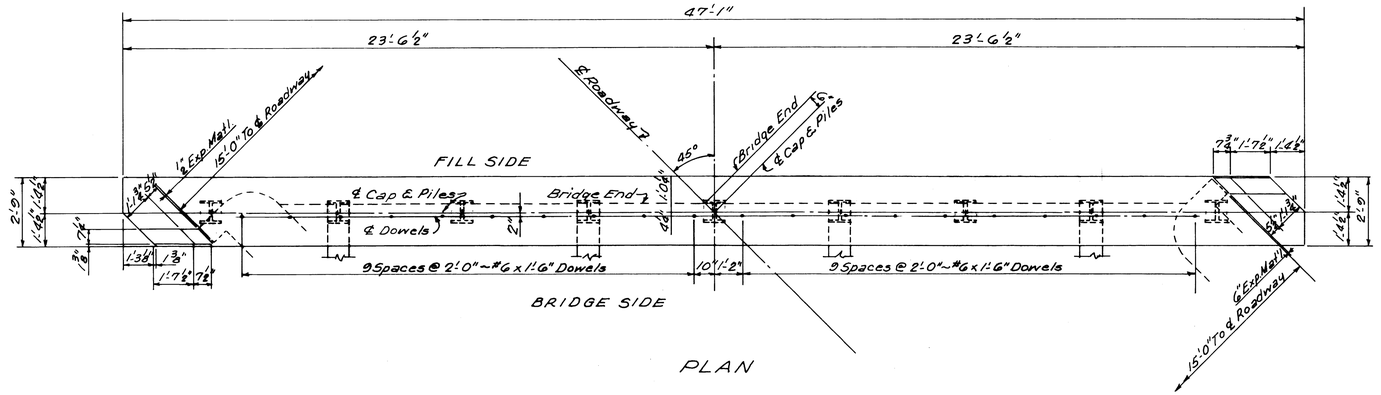


ELEVATION

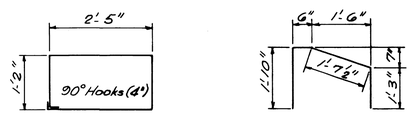
All Piles Shall Be 10BP42 & Driven To A Minimum Bearing Capacity Of 20 Tons.



SECTION ON ℄ ROADWAY



PLAN



BARS B ~ #5 BARS A ~ #5

BAR BENDING DETAILS

All Reinforcing Steel Details Shall Be In Accordance With Detailing "Manual For Reinforced Concrete Highway Structures."

Piles Shall Not Be Driven Until Fill At Bridge End Has Been Constructed.

14953

MISSISSIPPI STATE HIGHWAY DEPARTMENT

BRIDGE AT STA. 418 + ~~26~~ 27

END BENT NO. 1

PROJECT S-0400(2)A CONTRACT II

WARREN COUNTY

SUBMITTED BY _____ BRIDGE ENGINEER

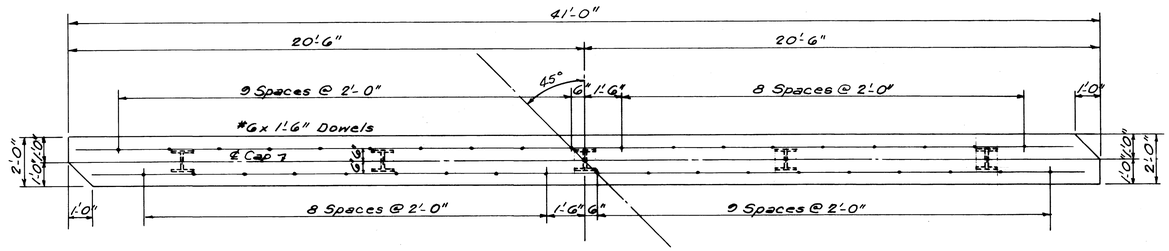
REVISIONS BY	DATE

DETAILED EWE	CHECKED	ISSUED	SHEET NUMBER
TRACED EWE	DATE	DATE	2 OF 8

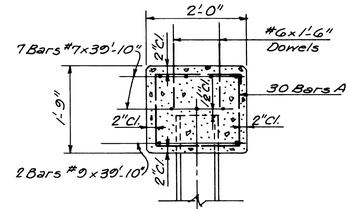
RIDGWAY – 130A IMPERIAL

FOR INFORMATION ONLY: PROJECT NO. EXB-0400-00(035) REVISED SHEET NO: 8009

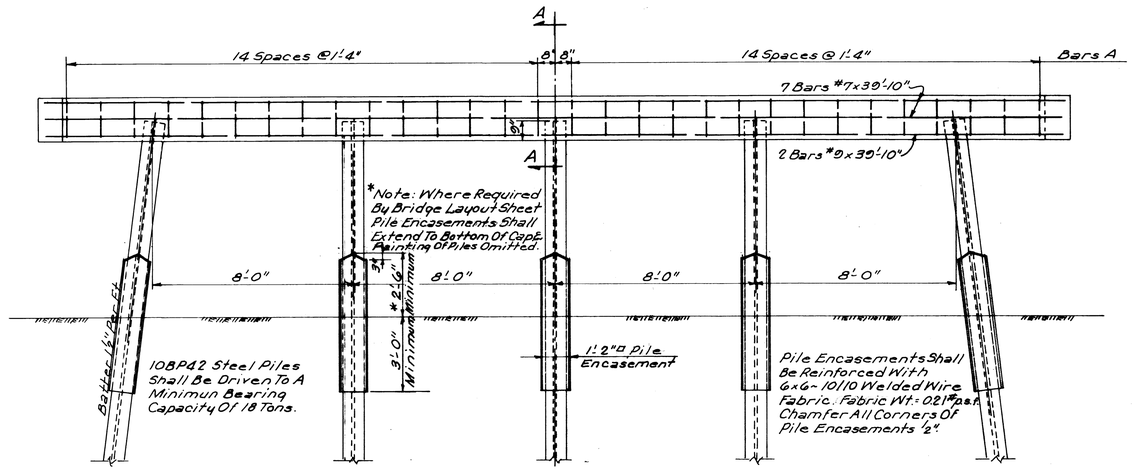
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
8	[redacted]	S-0400(2)A	19	III	XXXII



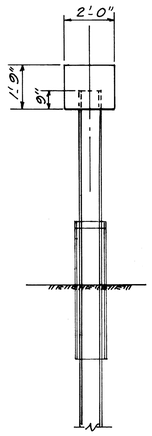
PLAN

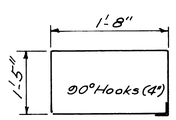


SECTION A-A



ELEVATION





BARS A-#5
BAR BENDING DETAILS

14953

REVISIONS | BY | DATE

MISSISSIPPI STATE HIGHWAY DEPARTMENT

BRIDGE AT STA. 418 + ~~26~~ 27

INT. BENTS NOS. — 2, 3, & 4

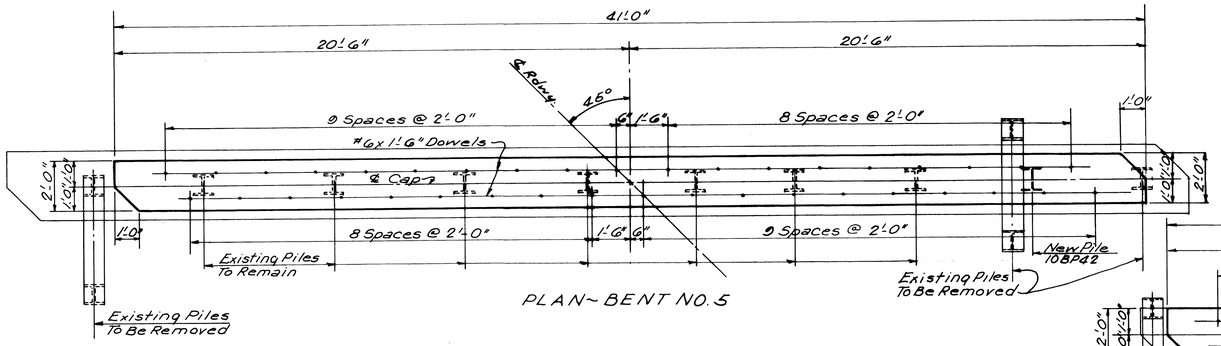
PROJECT S-0400(2)A CONT. II

WARREN COUNTY
SUBMITTED BY _____ BRIDGE ENGINEER

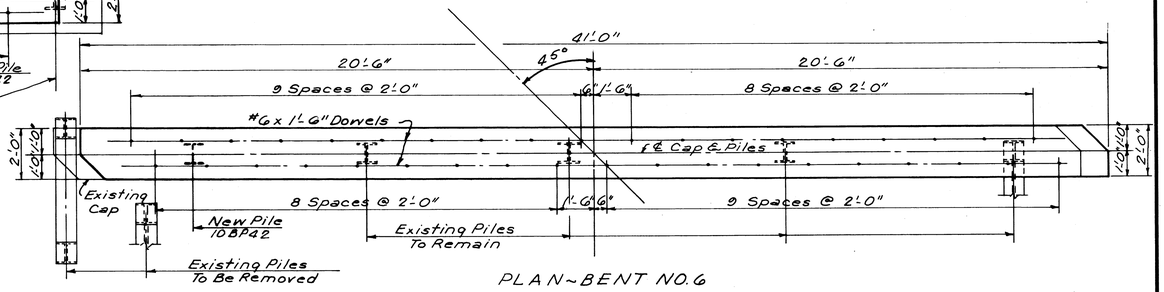
DETAILED EWE	CHECKED	ISSUED	SHEET NUMBER
TRACED EWE	DATE	DATE	3 OF 8

RIDGWAY - 130A IMPERIAL

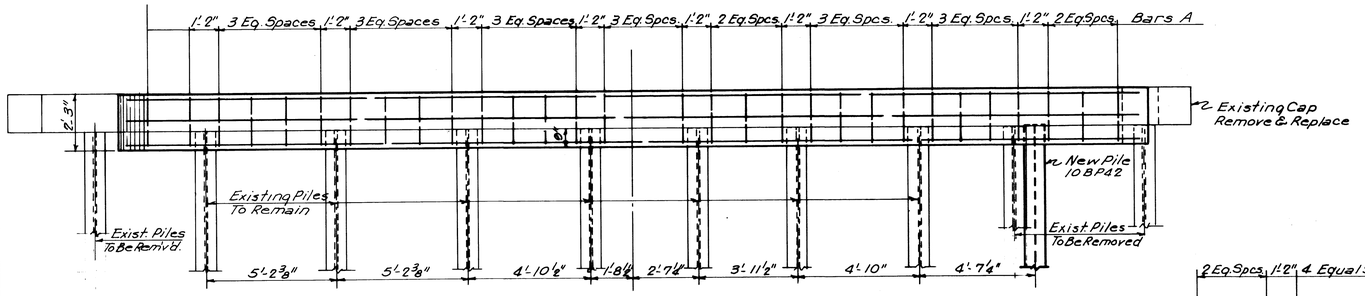
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
8	MISS	S-0400(2)A	19	IV	XIII



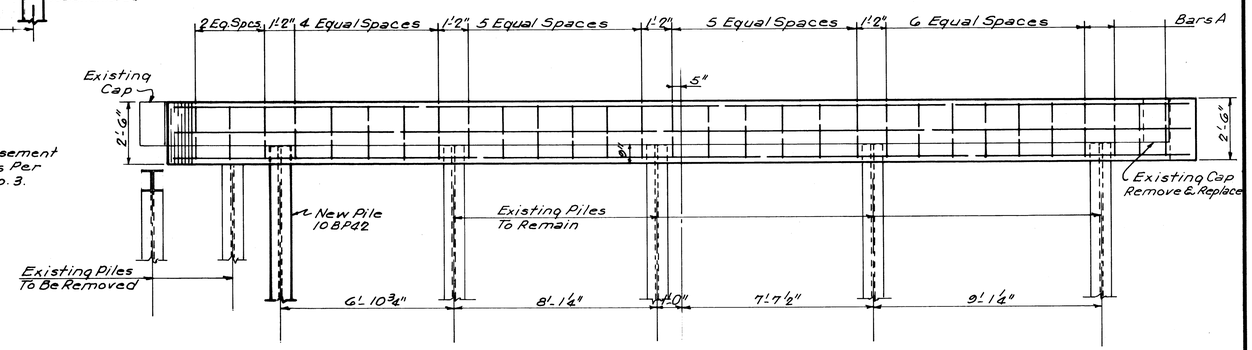
PLAN ~ BENT NO. 5



PLAN ~ BENT NO. 6

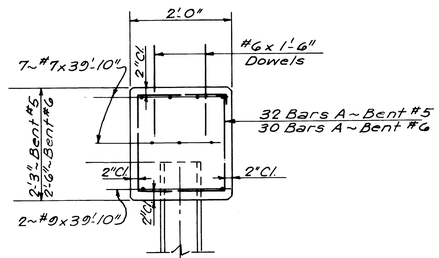


ELEVATION ~ BENT NO. 5

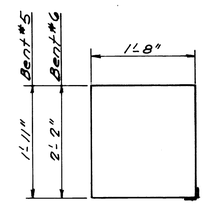


ELEVATION ~ BENT NO. 6

Note: Concrete Encasement Required On All Piles Per Details On Sheet No. 3.



TYPICAL SECTION



BARS A ~ #5

BAR BENDING DETAILS

14953

MISSISSIPPI STATE HIGHWAY DEPARTMENT

BRIDGE AT STA. 418+26

INT. BENTS NO. 5 AND NO. 6

PROJECT S-0400(2)A CONTRACT II

WARREN COUNTY

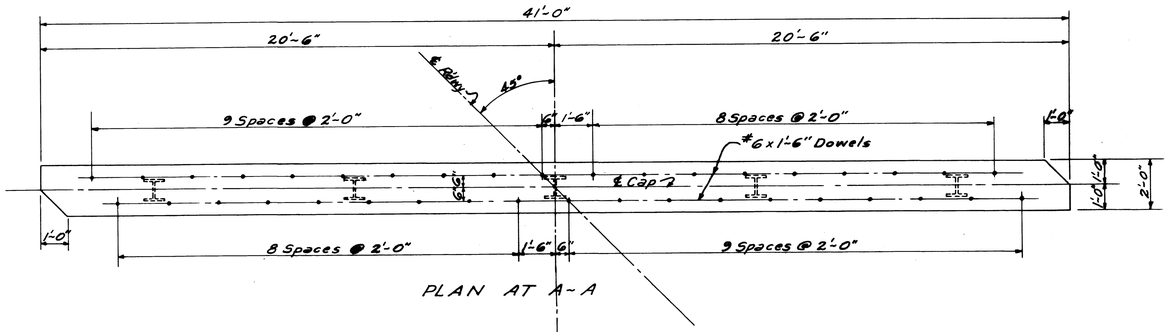
SUBMITTED BY _____ BRIDGE ENGINEER

REVISIONS | BY | DATE

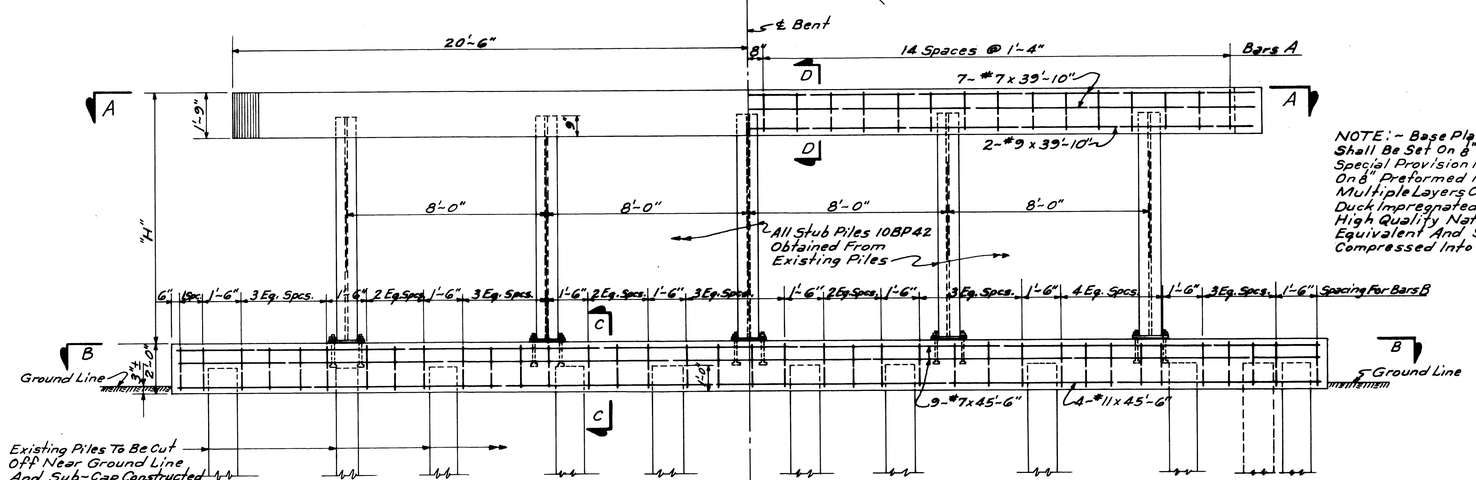
DETAILED EWE	CHECKED	ISSUED	SHEET NUMBER
TRACED EWE	DATE	DATE	4 OF 8

RIDGWAY — 130A IMPERIAL

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
8	MISS	S-0400(2)A	19	IV-R I	

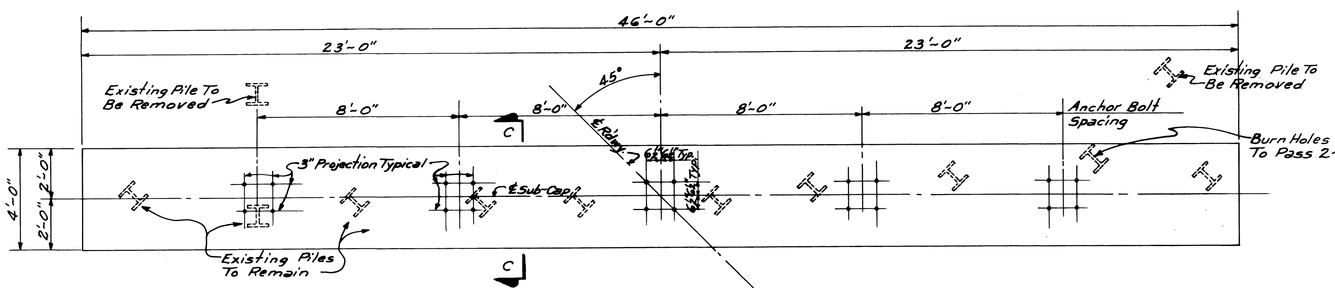


PLAN AT A-A

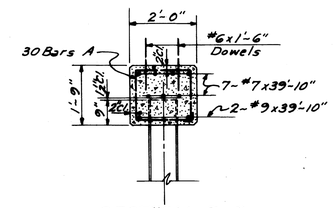


ELEVATION - BENT NO. 5

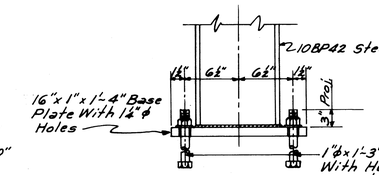
NOTE:- Height Of Bent "H" And Length Of Stub Piles Shall Be Determined In The Field By The Project Engineer.

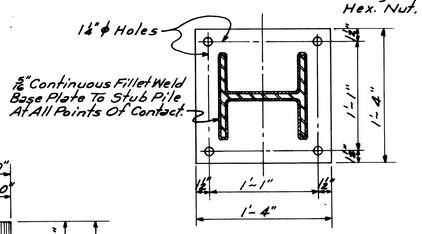


PLAN AT B-B
SHOWING SUB-CAP DETAILS



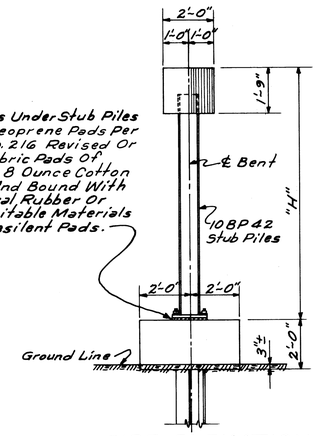
SECTION D-D



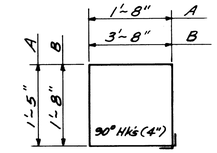


BASE PLATE DETAIL

NOTE:- Base Plates Under Stub Piles Shall Be Set On 8" Neoprene Pads Per Special Provision No. 216 Revised Or On 8" Preformed Fabric Pads Of Multiple Layers Of 8 Ounce Cotton Duck Impregnated And Bound With High Quality Natural Rubber Or Equivalent And Suitable Materials Compressed Into Resilent Pads.

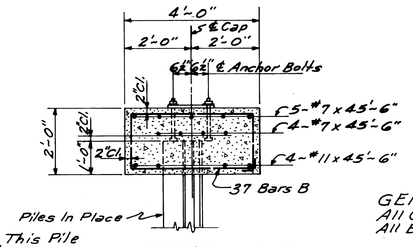


SIDE ELEVATION



BARS A ℄ B - #5

BAR BENDING DETAILS
Dimensions Are Out To Out.



SECTION C-C

GENERAL NOTES:-
All Concrete Shall Be Class "B".
All Edges Shall Be Chamfered ¾".

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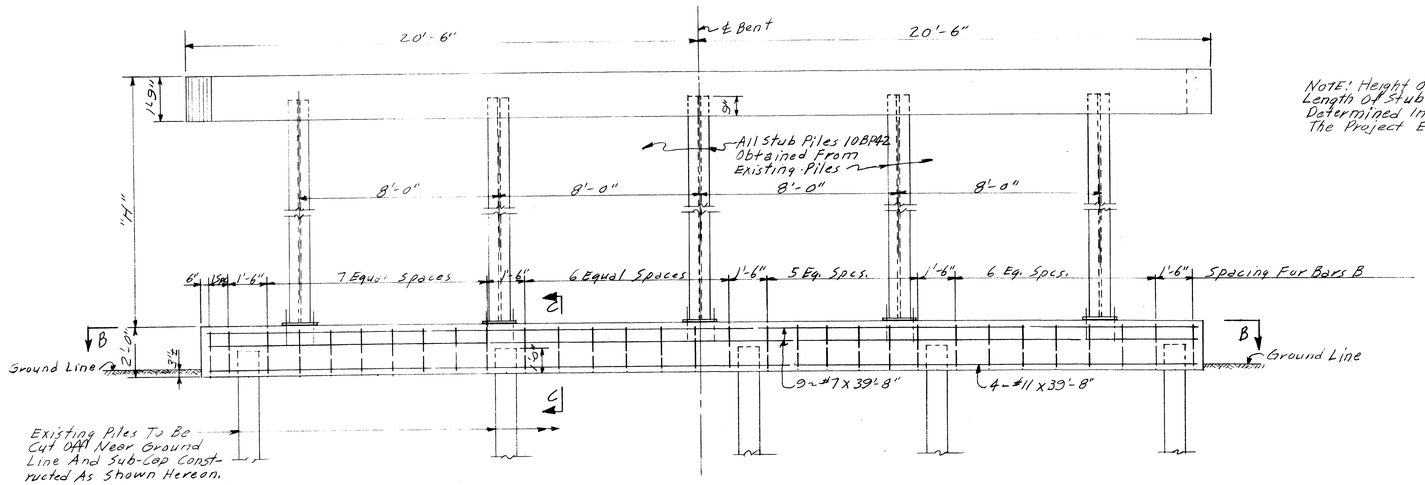
REVISIONS BY DATE

MISSISSIPPI STATE HIGHWAY DEPARTMENT
BRIDGE AT STA. 418+27
INT. BENT NO. 5
PROJECT S-0400(2)A
CONTRACT II
WARREN COUNTY
SUBMITTED BY BRIDGE ENGINEER

DETAILED JAC.	CHECKED	ISSUED	SHEET NUMBER
TRACED	DATE	DATE	4-R I OF

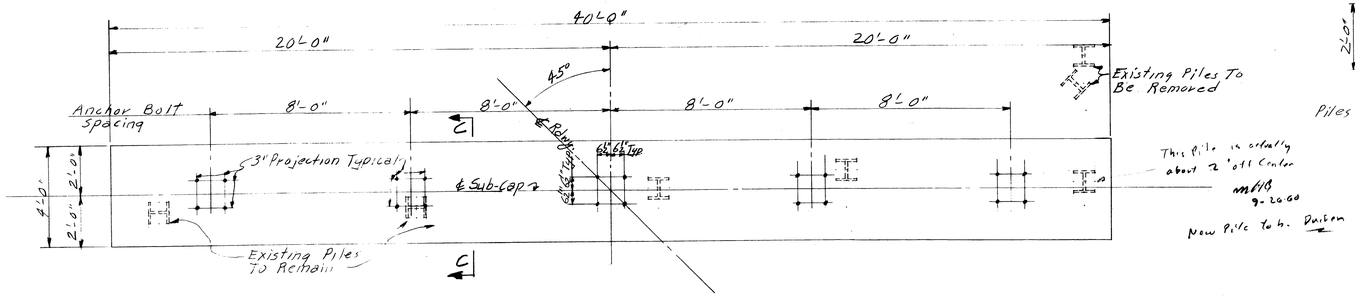
RIDGWAY — 130A IMPERIAL



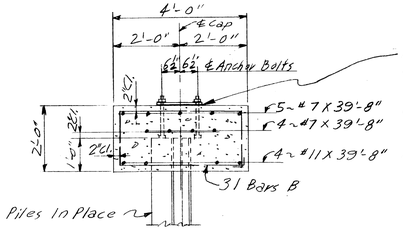
NOTE: Height of Bent "H" And Length Of Stub Piles Shall Be Determined In The Field By The Project Engineer.

NOTE:
All Details of Base Plates, Anchor Bolts, Stub Piles & Cap of Bent #5 Per Sheet No. 4A1 Shall Apply To Bent # 6 Unless Specifically Modified By Details On This Sheet.

ELEVATION - BENT NO. 6



PLAN AT B-B
SHOWING SUB-CAP DETAILS



SECTION C-C

NOTE: Base Plates Under Stub Piles Shall Be Set On 8" Neoprene Pads Per Special Provision No. 216 Or On 8" Preformed Fabric Pads Of Multiple Layers Of 8 Ounce Cotton Duck Impregnated And Bound With High Quality Natural Rubber Or Equivalent And Equally Suitable Materials Compressed Into Resilient Pads.

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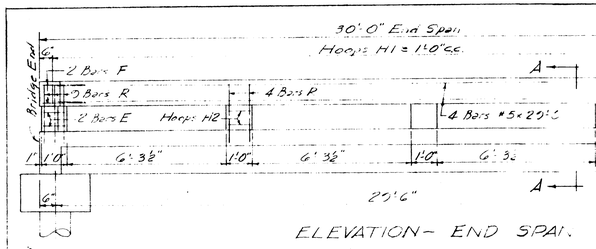
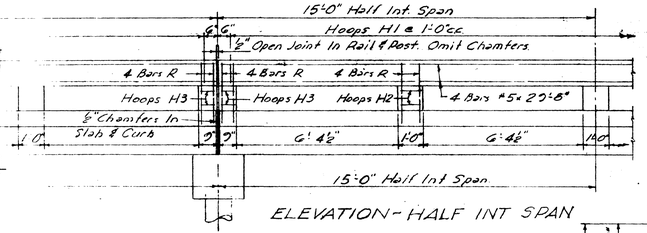
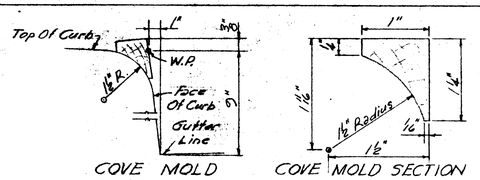
BY	MISSISSIPPI STATE HIGHWAY DEPARTMENT			
REVISIONS	BRIDGE AT STA. 418+27			
	INT. BENT NO. 6			
	PROJECT S-0400(2)A CONTRACT II			
	WARREN SUBMITTED BY		COUNTY BRIDGE ENGINEER	
DATE	DETAILED JAC.	CHECKED	ISSUED	SHEET NUMBER 4-A2 OF
	TRACED	DATE	DATE	



ELEVATION - END SPAN

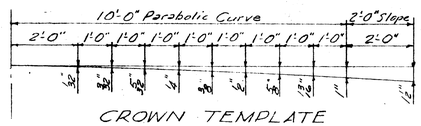


ELEVATION - HALF INT SPAN

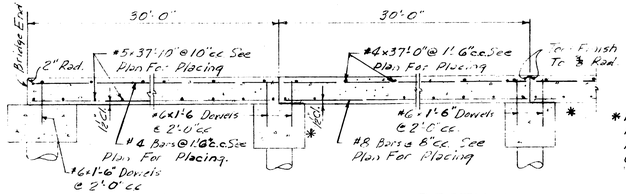


COVE MOLD INSTALLATION

COVE MOLD SECTION



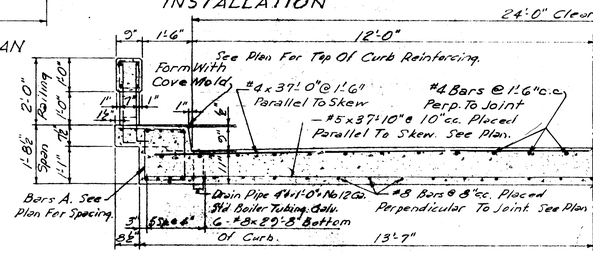
CROWN TEMPLATE



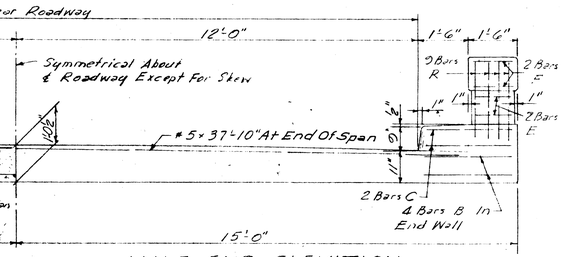
PART LONGITUDINAL SECTION

* Wrap Dowels This End 3 Turns 15# Roofing Felt, Tie With Wire. Place 2 Layers 15# Roofing Felt On Cap Under This End Of Slab.

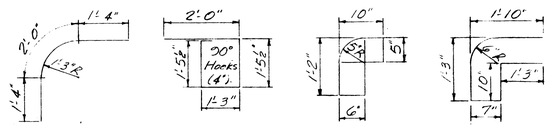
Chamfer All Exposed Edges Unless Otherwise Noted.



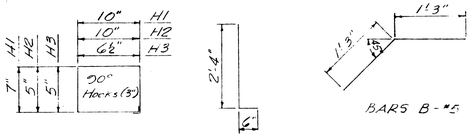
HALF SECTION A-A



HALF END ELEVATION



BARS C - #5 BARS A - #5 BARS E - #2 BARS F - #5

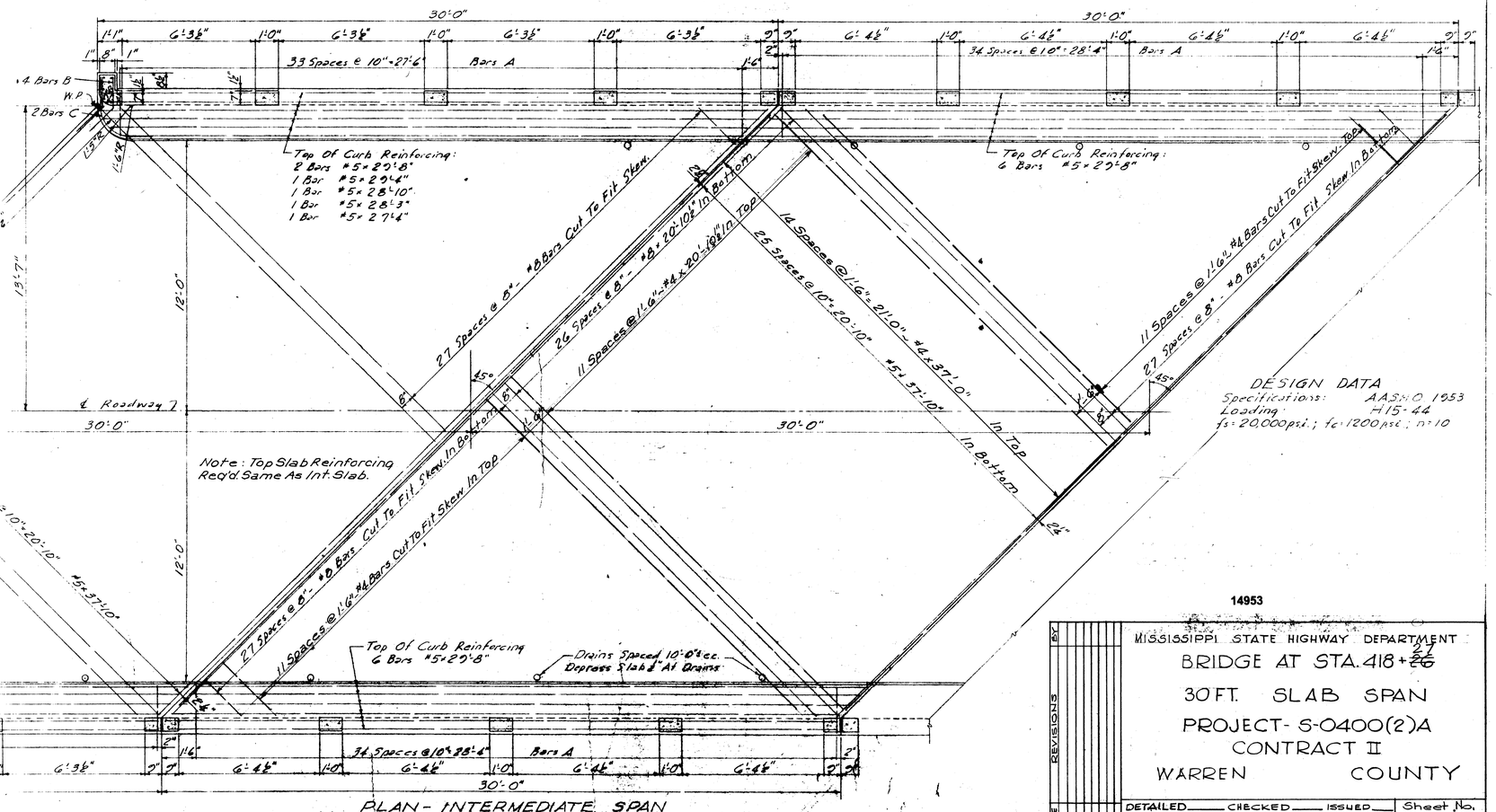


HOOPS H - #2 BARS R - #5

BARS B - #5

BAR BENDING DETAILS

All Reinforcing Steel Details Shall Be In Accordance With "Detailing Manual For Reinforced Concrete Highway Structures."



PLAN - END SPAN

PLAN - INTERMEDIATE SPAN

DESIGN DATA

Specifications: AASHO 1953
Loading H15-44
f_s = 20,000 psi.; f_c = 1200 psi.; n = 10

14953

MISSISSIPPI STATE HIGHWAY DEPARTMENT

BRIDGE AT STA. 418 + ~~27~~ 26

30 FT. SLAB SPAN

PROJECT - S-0400(2)A

CONTRACT II

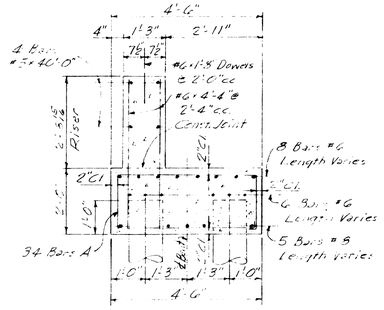
WARREN COUNTY

REVISIONS — BY — DATE

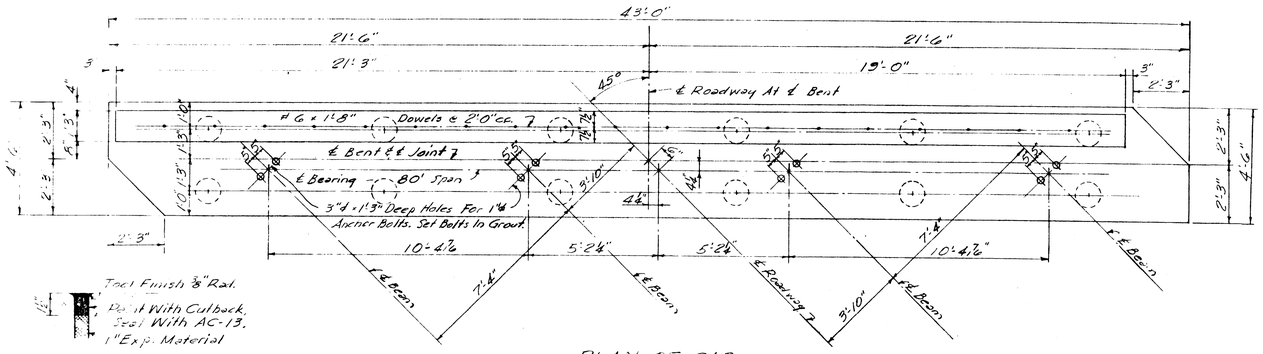
DETAILED ____ CHECKED ____ ISSUED ____ Sheet No. 5 of 8

TRACED ____ DATE ____ DATE ____

FOR INFORMATION ONLY: PROJECT NO. EXB-0400-00(035) REVISED SHEET NO: 8014

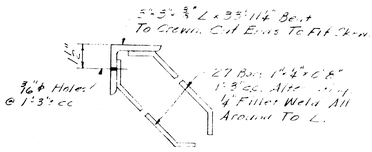


TYPICAL SECTION



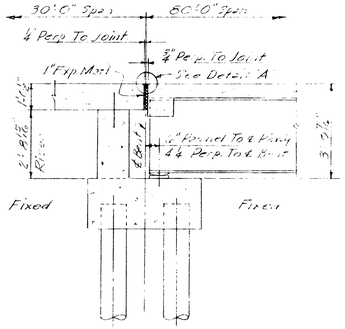
PLAN OF CAP

DETAIL "A"

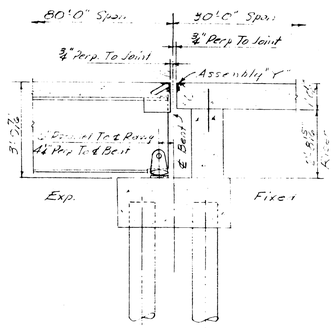


Adjust L To Grade By Nailing To Bulkhead Through ¾"ϕ Holes.

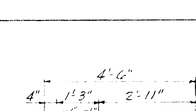
ASSEMBLY "Y"
Structural Steel
Est. Wt. 260 Lbs.



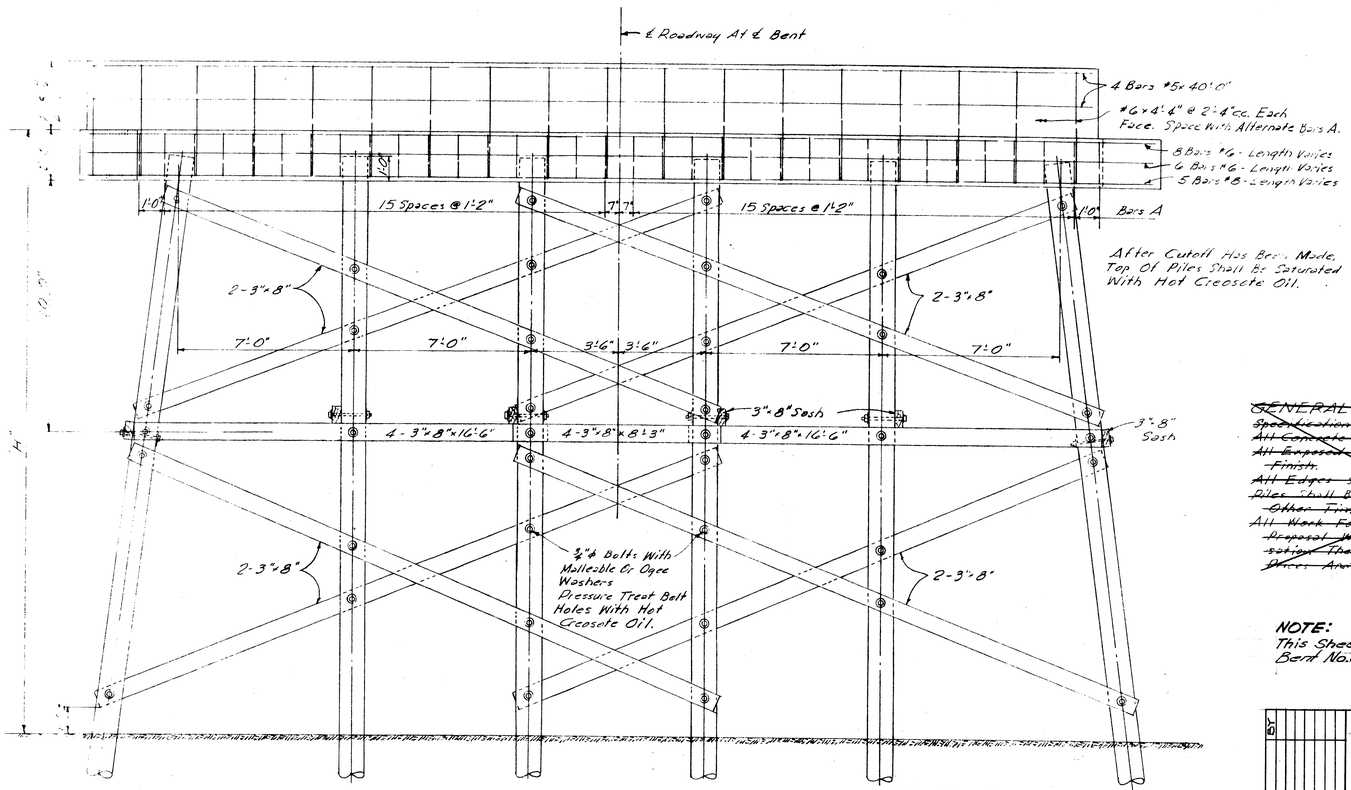
SPAN CONNECTION AT BENT NO. 4



SPAN CONNECTION AT BENT NO 5



BARS A - #5
BAR BENDING DETAILS
All Reinforcing Steel Details Shall Be In Accordance With "Detailing Manual For Reinforced Concrete Highway Structures."



ELEVATION

After Cutoff Has Been Made, Top Of Piles Shall Be Saturated With Hot Creosote Oil.

~~GENERAL NOTES~~
~~Specifications: Mississippi State Highway Department~~
~~All Concrete Shall Be Class B Bridge Concrete~~
~~All Exposed Surfaces Shall Be Given A Uniform Rubbed Finish.~~
~~All Edges Shall Be Chamfered ¾"~~
~~Piles Shall Be Given A Full Cell Creosote Treatment And~~
~~Other Timber Shall Be Given A Pressure Treatment~~
~~All Work For Which No Pay Items Are Provided In The Proposal Will Not Be Paid For Directly And Compensation Therefor Will Be Considered Included In The Prices And Payments For And Items.~~

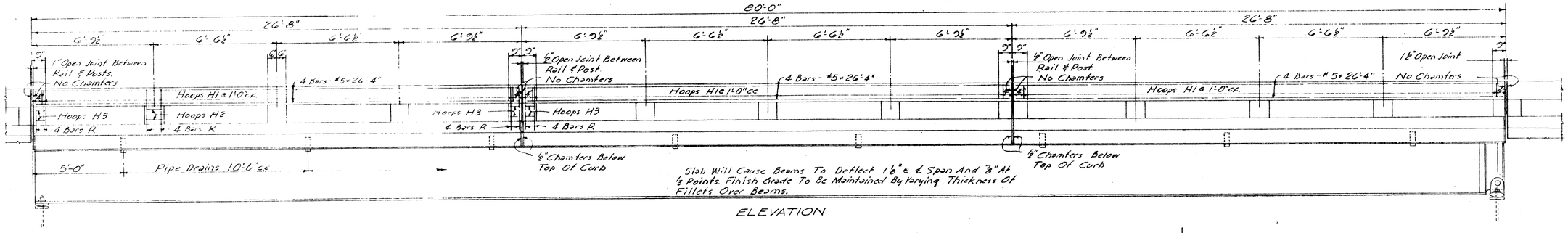
NOTE:
This Sheet For Reference Of Alignment For Bent No. 8 & Spans.

14953

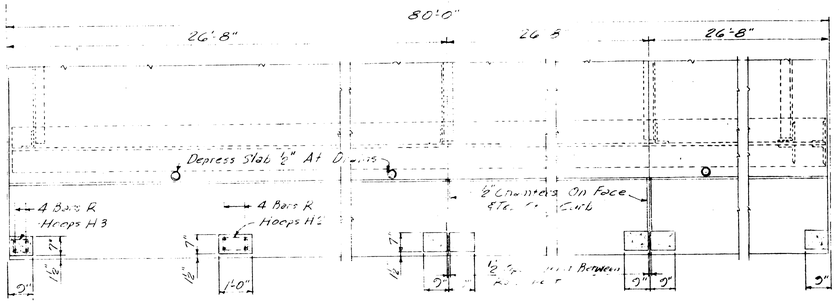
REVISIONS	BY	DATE

MISSISSIPPI STATE HIGHWAY DEPARTMENT
BRIDGE AT STA. 418+~~26~~ 27
INT. BENTS 8 & 9
PROJECT-S-0400(2)A
CONTRACT II
WARREN COUNTY

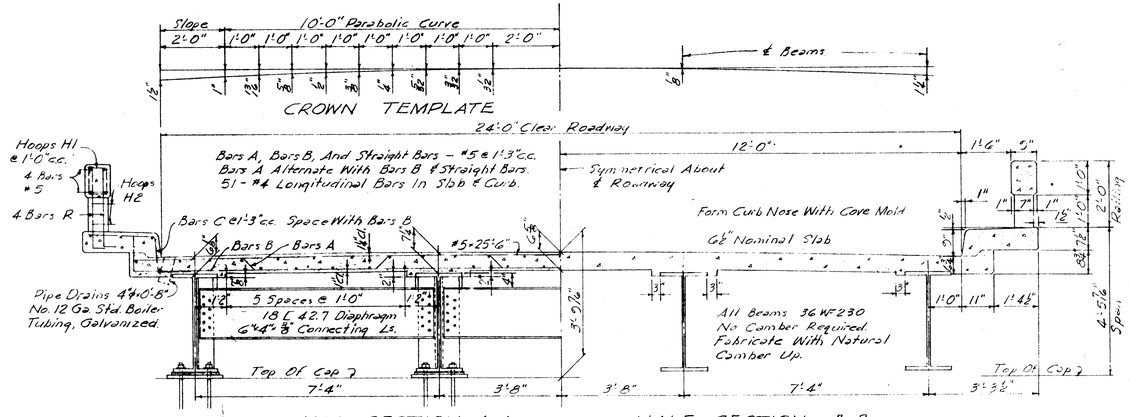
DETAILED ____ CHECKED ____ ISSUED ____
TRACED ____ DATE ____ DATE ____
Sheet No. 6 of 8



ELEVATION

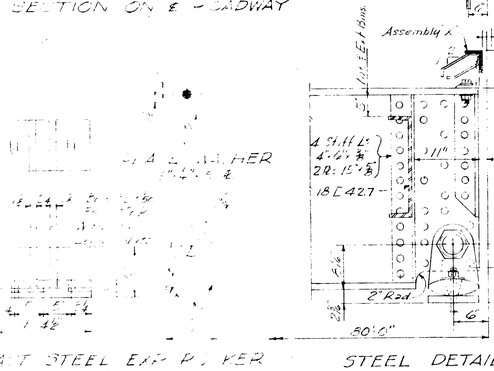


PART PLAN

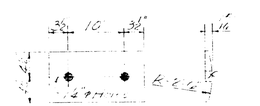


HALF SECTION A-A
Showing Typical Reinforcing Steel And Slab And Fillet Dimensions At End Of Span.

HALF SECTION B-B
Showing Typical Concrete Details

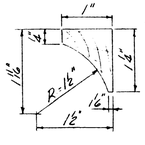


LONGITUDINAL SECTION ON ℄ - ROADWAY

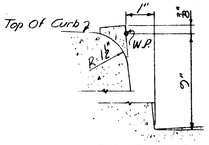


All Bearing Plates To Be Set On A ⅛" Layer Of Cement & Mortar.

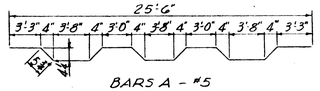
STEEL DETAILS



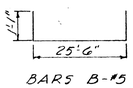
COVE MOLD SECTION



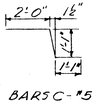
COVE MOLD INSTALLATION



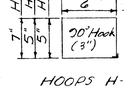
BARS A - #5



BARS B - #5



BARS C - #5



HOOPS H - #2

BARS R - #5

BAR BENDING DETAILS
All Bar Bending Details Shall Be In Accordance With "Detailing Manual, For Reinforced Concrete Highway Structures."

MATERIAL FOR ASSEMBLY "X"
1-L 4"x3"x⅜x24'-0" Bent To Crown.
19-Bars 1"ø x 0'-8" Bent & Welded To 4"x3"L At 1'-3" Centers On Alternate Legs.
4-Clip Ls 5"x5"x⅜x0'-8" Welded To 4"x3"L With ¼" Fillet Weld All Around.
8-¾"ø x 3½" Machine Bolts With 2 Washers Each.
8-Shims 4"x 1/16"x 0'-8"
Provide 1⅛"x1⅛" Slotted Holes In Clip Ls.

STANDARD PLAN QUANTITIES

Class "B" Bridge Conc.	53.91 Cu Yd.
Reinforcing Steel	8390.0 Lbs.
Structural Steel	80,250.0 Lbs. *
Railing	160.0 Lin. Ft.

* Includes One Assembly "X" @ 260.0 Lbs. Final Payment Will Be Made On The Basis Of The Above Quantities Unless This Plan Is Modified By Supplemental Details.

~~GENERAL NOTES:~~
~~Specifications: Mississippi State Highway Department.~~
~~Concrete In Railing Shall Be Class "A". All Other Concrete Shall Be Class "B".~~
~~All Exposed Concrete Surfaces Shall Be Given A Uniform Rubbed Finish.~~
~~All Exposed Edges Shall Be Chamfered ¾" Except Where Otherwise Noted.~~
~~Placing Dimensions For Reinforcing Steel To Concrete Surfaces Are Clear Distances.~~
~~All Structural Steel Shall Be Given One Shop Coat Of Red Lead Paint Per Code R-L.~~
~~After Erection, All Structural Steel Shall Be Given Three Field Coats Of Paint As Follows: First Coat Red Lead Per Code R-L, Second And Third Coats Aluminum Per Code B-A.~~
~~Shop Connections Shall Be ¾" Rivets.~~
~~Field Connections Shall Be ¾" Rivet Bolts Except Where Otherwise Noted.~~
~~All Work For Which No Pay Items Are Provided In The Proposal Will Not Be Paid For Directly And Compensation Therefor Will Be Considered Included In The Prices And Payments For Bid Items.~~

NOTE:
~~This Sheet For Reference Of Alignment For Spans.~~

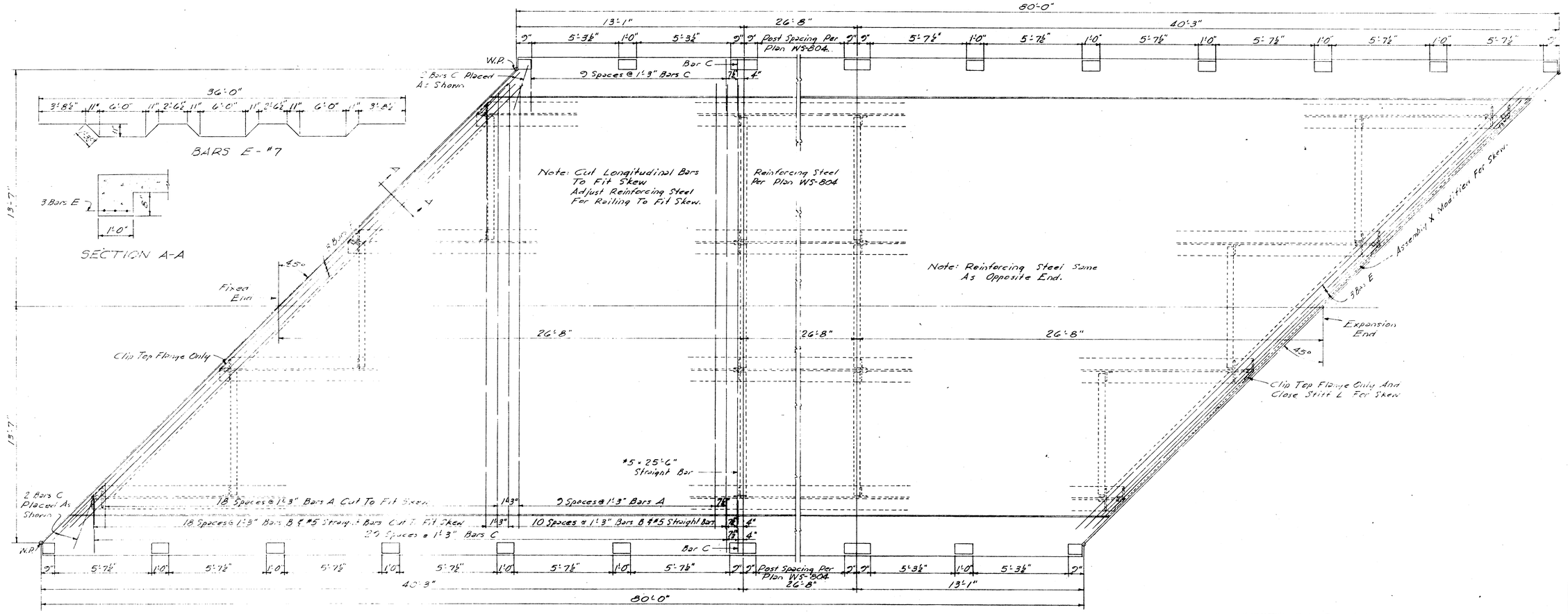
DESIGN DATA
Specifications: A.A.S.H.O. 1953
Loading: H15-44
f_s=20,000#/in²; f_c=1200#/in²; n=10
f_s(Structural Steel) = 18,000#/in²

14953

MISSISSIPPI STATE HIGHWAY DEPARTMENT
BRIDGE AT STA. 418+~~25~~ 27
80FT. WF BEAM SPAN
PROJECT-S-0400(2)A
CONTRACT II
WARREN COUNTY

DATE	REVISIONS	BY

DETAILED ____ CHECKED ____ ISSUED ____
TRACED ____ DATE ____ DATE ____
Sheet No. 7 of 8



PLAN

NOTE: This Sheet For Reference Of Alignment For Spans.

14953

~~GENERAL NOTES:~~

~~All Dimensions, Details, And Requirements Of The Standard Plan WS-804 Shall Apply Except As Specifically Modified Herein.~~

DATE	REVISIONS	BY

MISSISSIPPI STATE HIGHWAY DEPARTMENT

BRIDGE AT STA. 418+~~26~~ 27

80 FT. WF BEAM SPAN

PROJECT-S-0400(2)A

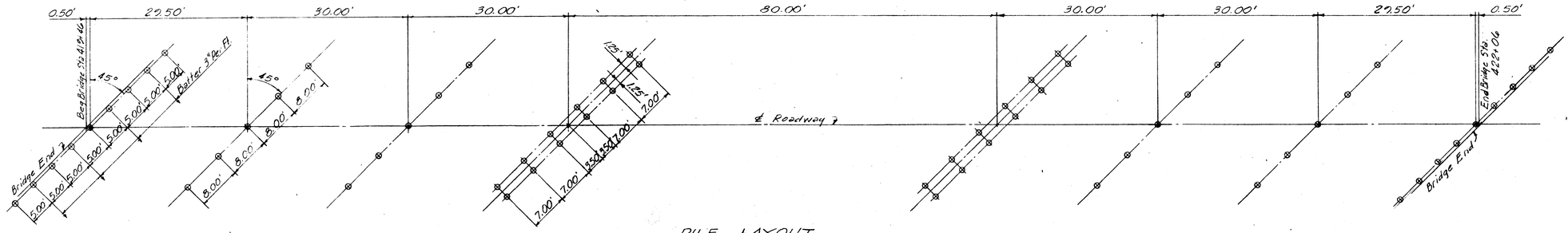
CONTRACT II

WARREN COUNTY

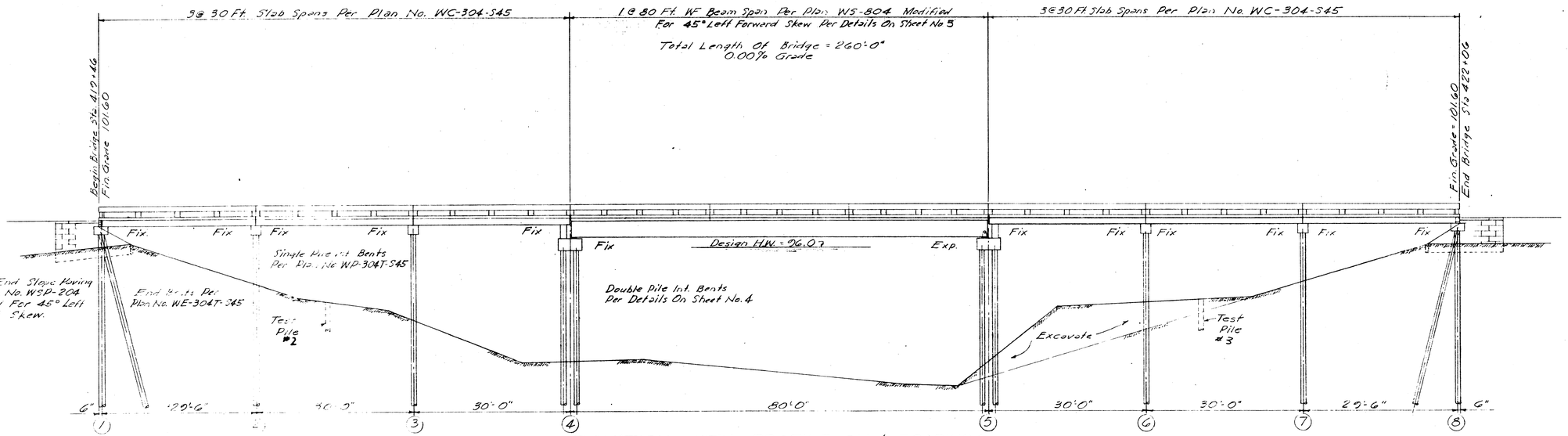
DETAILED	CHECKED	ISSUED	Sheet No.
TRACED	DATE	DATE	8 of 8

8

FOR INFORMATION ONLY: PROJECT NO. EXB-0400-00(035) REVISED SHEET NO: 8017



PILE LAYOUT
45°-00' Left Forward Skew



ELEVATION – WITH PROFILE ON ℄ ROADWAY
Skew Not Shown
Scale: 1"=10'-0"

PILE BEARING CAPACITY

End Bents	16 Tons
Int. Bents	18 Tons

ESTIMATED QUANTITIES

		FINAL ESTIMATE	
Class "B" Concrete	328.47 Cu.Yd.	326.99	Cu.Yd.
Class "C" Concrete (Slope Paving)	34.5 Cu.Yd.	0	
Reinforcing Steel	54,380.7 Lbs.	55,723	Lbs.
Structural Steel	87,000 Lbs.	86,768	Lbs.
Railing	520.0 Lin. Ft.	520	Lin.Ft.
Treated Timber	3.250 M.B.M.	3.62	M.B.M.
Treated Timber Piling	4,630.0 Lin. Ft.	4,211.0	Lin.Ft.
Test Piles	2 Units	2	Units

GENERAL NOTES:
Specifications: Mississippi State Highway Department.
No Unauthorized Change Of Plans Will Be Permitted.
Test Piles Shall Be Driven To A Minimum Bearing Capacity Of 20 Tons And A Minimum Penetration Of 60 Feet.
All Work For Which No Pay Items Are Provided In The Proposal Will Not Be Paid For Directly And Compensation Therefor Will Be Considered Included In The Prices And Payments For Bid Items.

Standard Plans Reqd: WE-304T-S45; WP-304T-S45; WSP-204; WC-304-S45; WS-804.

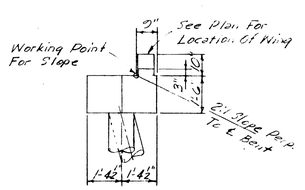
BOARD OF SUPERVISORS
WARREN COUNTY
VICKSBURG MISSISSIPPI

BRIDGE "B" OVER MUDDY BAYOU
STA. 419+46 PROJECT NO. SP-1-3250(3)

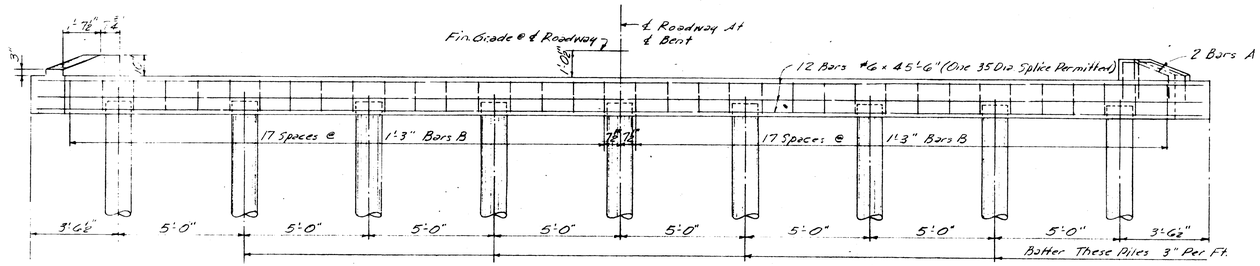
E. B. CAVALLO & ASSOCIATES, ENGINEERS
503 BARNETT-MADDEN BLDG.
JACKSON, MISSISSIPPI

SHEET NO. 2

14953-1

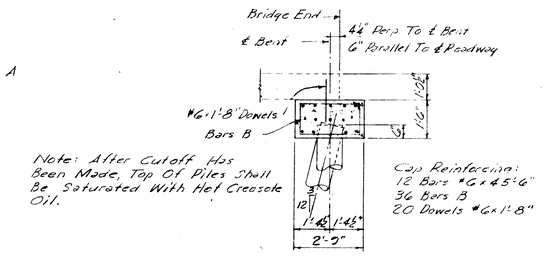


END ELEVATION



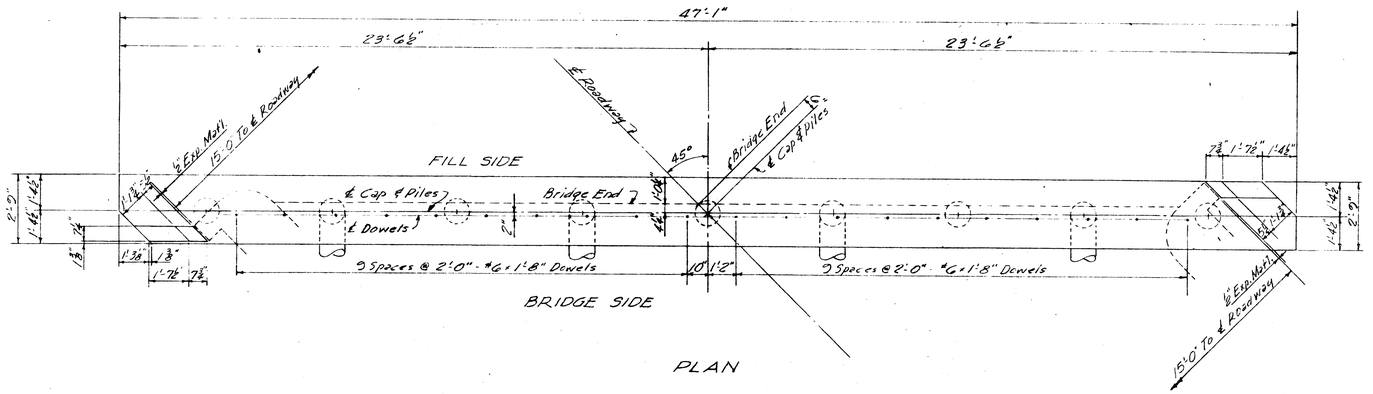
ELEVATION

All Piles Shall Be Driven To A Minimum Bearing Capacity Of 16 Tons.

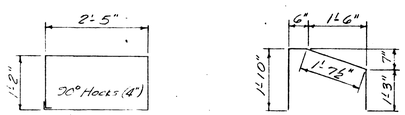


Note: After Cutoff Has Been Made, Top Of Piles Shall Be Saturated With Hot Creosote Oil.

SECTION ON ℄ ROADWAY



PLAN



BARS B - #5 BARS A - #5

BAR BENDING DETAILS

All Reinforcing Steel Details Shall Be In Accordance With Detailing Manual For Reinforced Concrete Highway Structures."

GENERAL NOTES

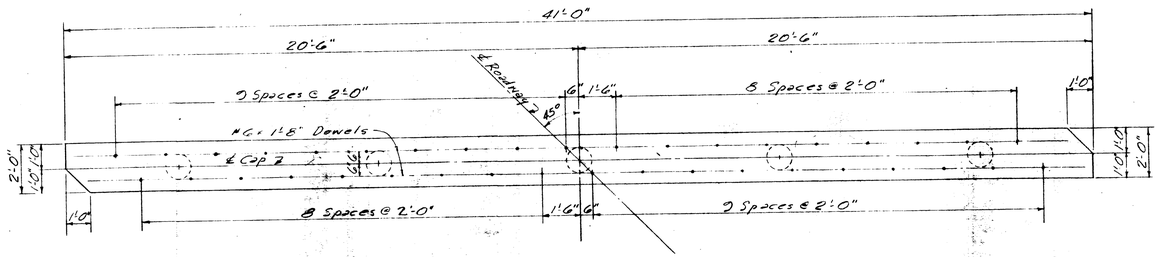
Specifications: Mississippi State Highway Department.
All Concrete Shall Be Class "B" Bridge Concrete.
All Exposed Surfaces Shall Be Given A Uniform Rubbed Finish.
All Edges Shall Be Chamfered ¾" Except Where Otherwise
Piles Shall Be Given A 16 Lb. Creosote Treatment.
Piles Shall Not Be Driven Until Fill At Bridge Ends Has Been Constructed To Grade.
No Payment Will Be Allowed For Excavation Incidental To Construction Of End Bent.
All Work For Which No Pay Items Are Provided In The Proposal Will Not Be Paid For Directly And Compensation Therefor Will Be Considered Included In The Prices And Payments For Bid Items.

BOARD OF SUPERVISORS
WARREN COUNTY
VICKSBURG, MISSISSIPPI

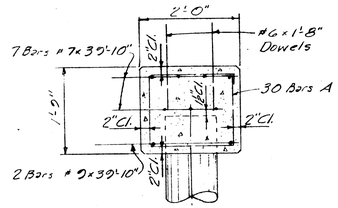
END BENT
FOR USE WITH PLAN No. WC-304-S45

E. B. CAVALLO & ASSOCIATES, ENGINEERS
503 BARNETT-MADDEN BLDG.
JACKSON, MISSISSIPPI

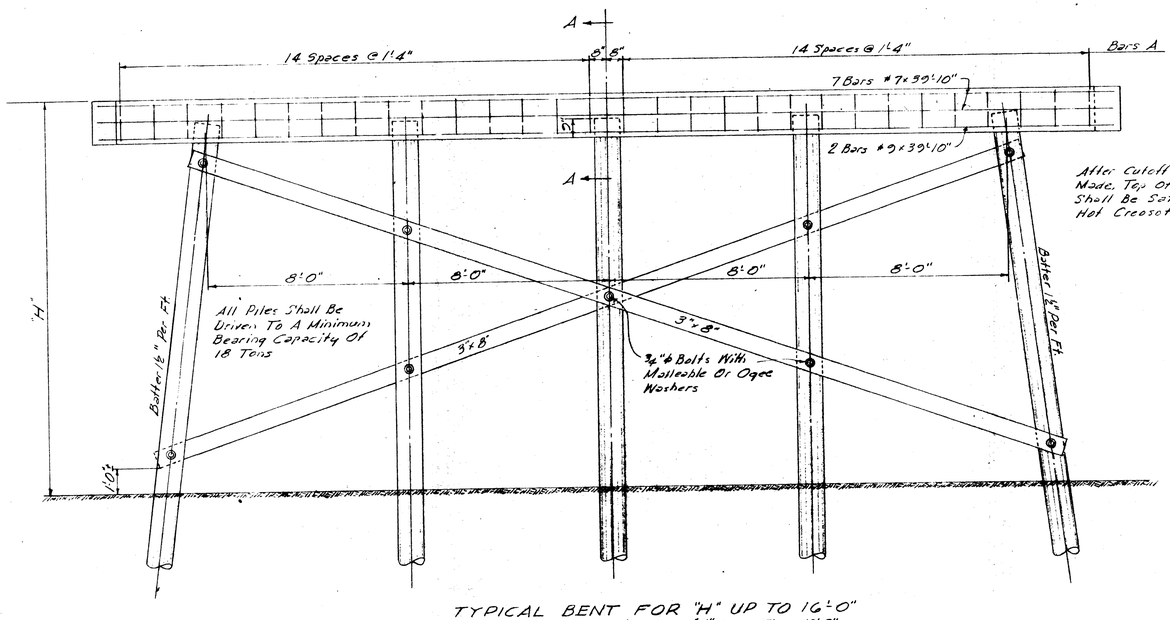
14953-1 | PLAN NO WE-304T-S45



PLAN

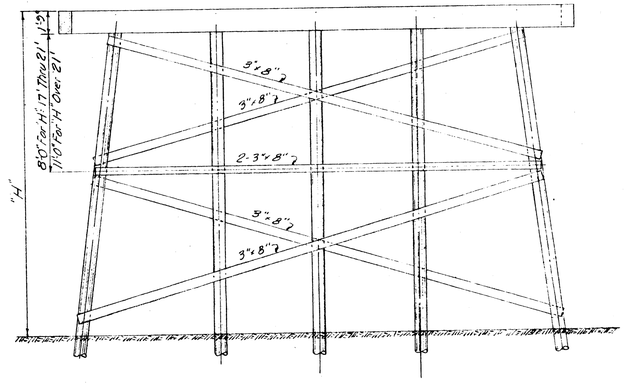


SECTION A-A

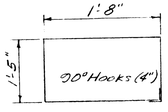


TYPICAL BENT FOR "H" UP TO 16'-0"
Omit Sway Bracing For "H" Less Than 10'-0"

After Cutoff Has Been Made, Top Of Piles Shall Be Saturated With Hot Creosote Oil.



TYPICAL BENT FOR "H" OVER 16'-0"



BARS A - #5
BAR BENDING DETAILS

GENERAL NOTES:
Specifications: Miss State Highway Department.
All Concrete Shall Be Class "B" Bridge Concrete.
All Exposed Surfaces Shall Be Given A Uniform Rubbed Finish.
All Edges Shall Be Chamfered 3/4".
Piles Shall Be Given A 16 Lb. Creosote Treatment. All Other Timber Shall Be Given A 12 Lb. Treatment.
All Work For Which No Pay Items Are Provided In The Proposal Will Not Be Paid For Directly And Compensation Therefor Will Be Considered Included In The Prices And Payments For Bid Items.

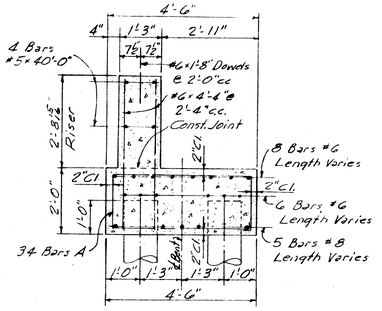
BOARD OF SUPERVISORS
WARREN COUNTY
VICKSBURG, MISSISSIPPI

INTERMEDIATE BENT
FOR USE WITH PLAN NO. WC-304-545

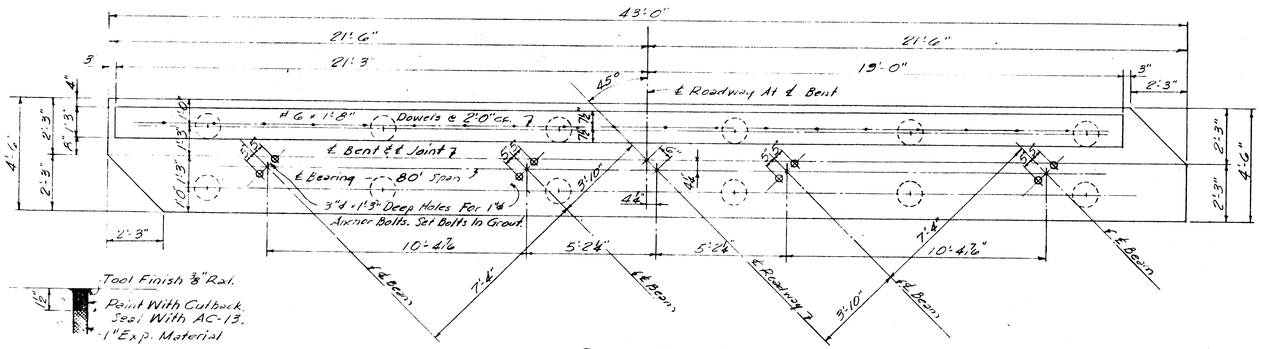
E.B. CAVALLO & ASSOCIATES, ENGINEERS
503 BARNETT-MADDEN BLDG.
JACKSON, MISSISSIPPI

14953-1 | PLAN NO. WP-304T-545

SP-1-3250(3)

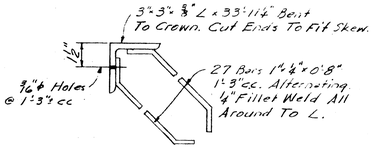


TYPICAL SECTION



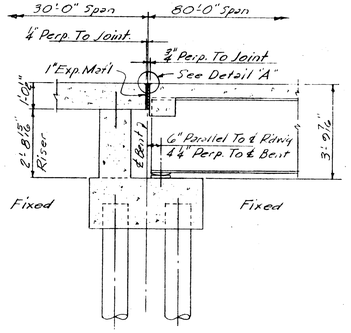
PLAN OF CAP

DETAIL "A"

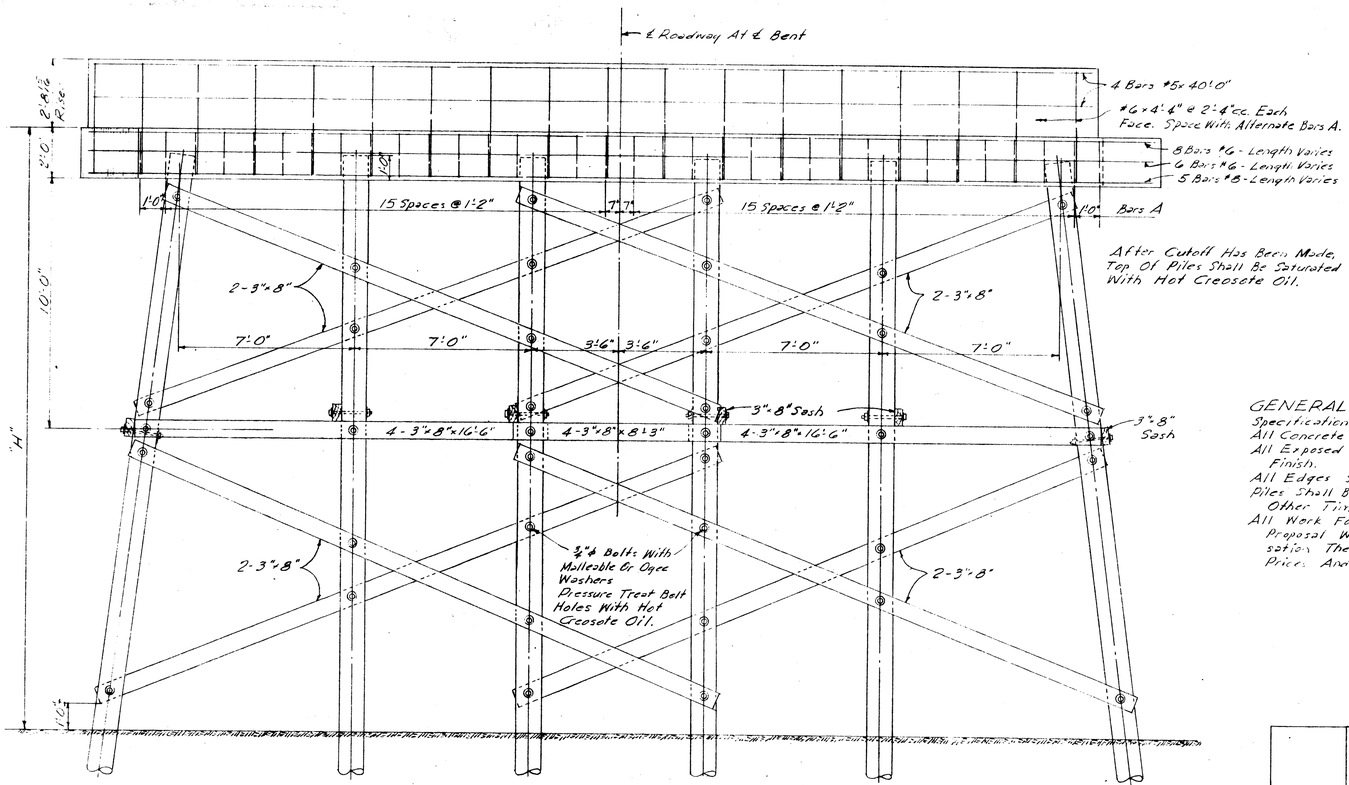


Adjust L To Grade By Nailing To Bulkhead Through ⅜" ϕ Holes.

ASSEMBLY "Y"
Structural Steel
Est. Wt.: 260 Lbs.



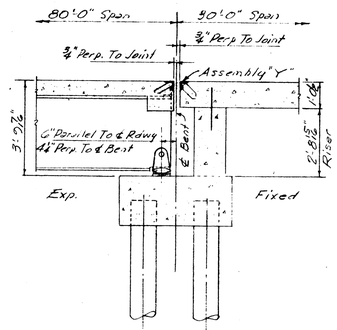
SPAN CONNECTION AT BENT NO. 4



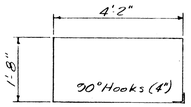
ELEVATION

After Cutoff Has Been Made, Top Of Piles Shall Be Saturated With Hot Creosote Oil.

All Piles Shall Be Driven To A Minimum Bearing Capacity Of 18 Tons.



SPAN CONNECTION AT BENT NO 5



BARS A - #5

BAR BENDING DETAILS

All Reinforcing Steel Details Shall Be In Accordance With "Detailing Manual For Reinforced Concrete Highway Structures."

GENERAL NOTES:

Specifications: Mississippi State Highway Department.
All Concrete Shall Be Class "B" Bridge Concrete.
All Exposed Surfaces Shall Be Given A Uniform Rubbed Finish.
All Edges Shall Be Chamfered ¾".
Piles Shall Be Given A 16 Lb Creosote Treatment. All Other Timber Shall Be Given A 12 Lb Treatment.
All Work For Which No Pay Items Are Provided In The Proposal Will Not Be Paid For Directly And Compensation Therefor Will Be Considered Included In The Price: And Payments For Bid Items.

BOARD OF SUPERVISORS
WARREN COUNTY
VICKSBURG, MISSISSIPPI

DOUBLE PILE BENT
BENTS No. 4 & No. 5

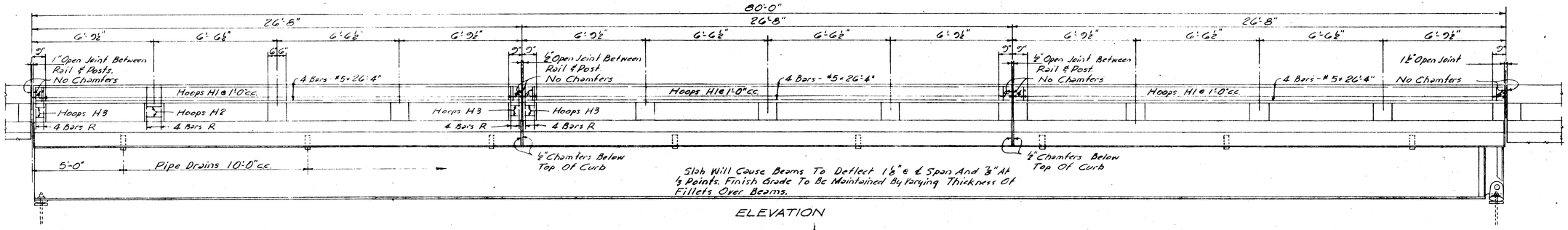
E. B. CAVALLO & ASSOCIATES, ENGINEERS
503 BARNETT-MADDEN BLDG.
JACKSON, MISSISSIPPI

14953-1

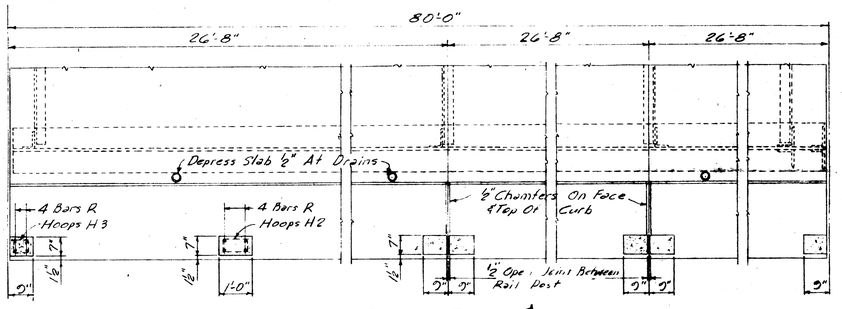
SHEET NO. 4

PROJECT SP-1-3250(3)

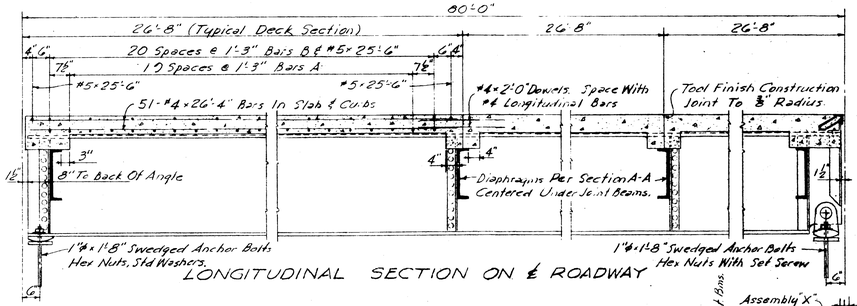
FOR INFORMATION ONLY: PROJECT NO. EXB-0400-00(035) REVISED SHEET NO: 8021



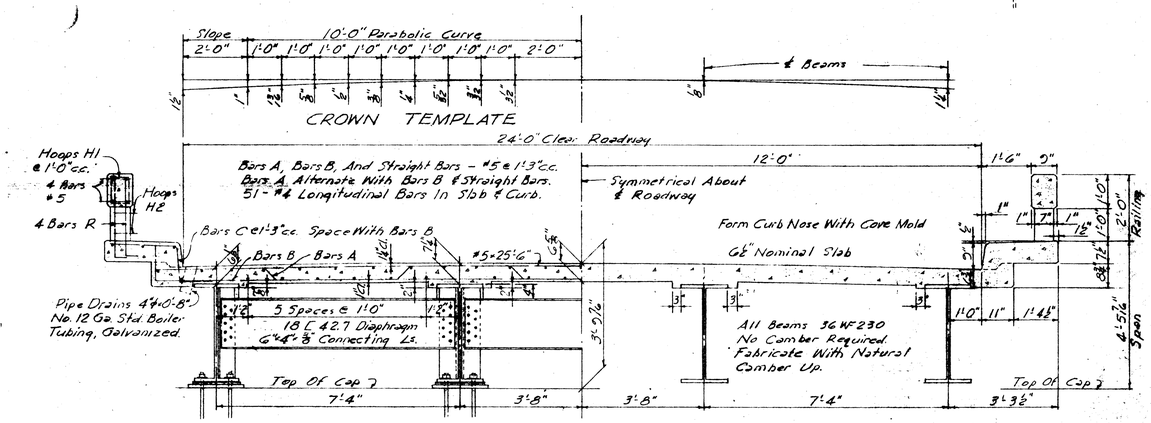
ELEVATION



PART PLAN

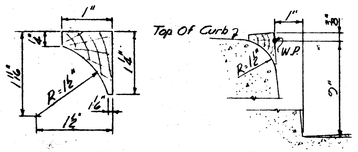


LONGITUDINAL SECTION ON ℄ ROADWAY



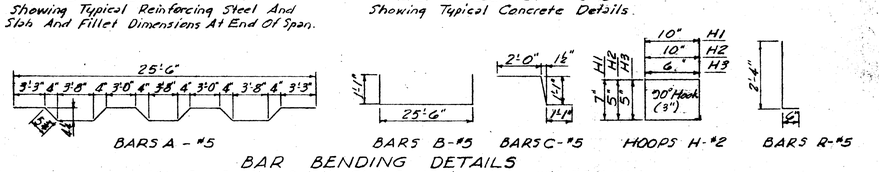
HALF SECTION A-A
Showing Typical Reinforcing Steel And Slab And Fillet Dimensions At End Of Span.

HALF SECTION B-B
Showing Typical Concrete Details.

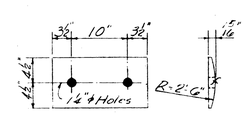


COVE MOLD SECTION

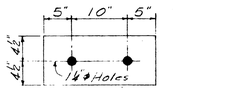
COVE MOLD INSTALLATION



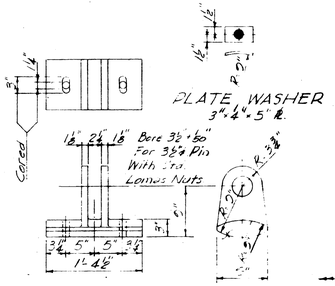
BAR BENDING DETAILS
All Bar Bending Details Shall Be In Accordance With "Detailing Manual For Reinforced Concrete Highway Structures."



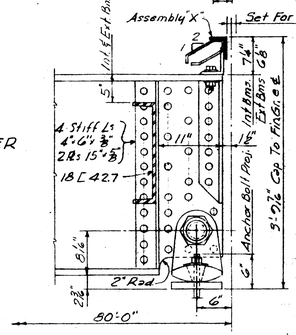
ROCKER PLATE - RP
Finished From 9"x 1"x 1'-5" R.
4 Cont. Weld To Beams



BEARING PLATE - BP
9"x 14"x 1'-8" R.
All Bearing Plates To Be Set On A 6" Layer Of Canvas & Red Lead.



CAST STEEL EXP. ROCKER
Paid For As Structural Steel



STEEL DETAILS

MATERIAL FOR ASSEMBLY "X"
1-L 4"x3"x⅜"x 2'-0" Bent To Crown.
19-Bars 1"ø 0'-8" Bent & Welded To 4"x3"L At 1'-3" Centers On Alternate Legs
4-Clip Ls 5"x5"x⅜" 0'-8" Welded To 4"x3"L With ¼" Fillet Weld All Around.
8-¾"ø x 3½" Machine Bolts With 2 Washers Each.
8-Shims 6"x 1/16"x 0'-8".
Provide ⅝"x 1⅛" Slotted Holes In Clip Ls.

STANDARD PLAN QUANTITIES

Class "B" Bridge Conc.	53.91 Cu Yd.
Reinforcing Steel	8 990.0 Lbs.
Structural Steel	80,250.0 Lbs. *
Railing	160.0 Lin. Ft.

* Includes One Assembly "X" @ 260.0 Lbs.
Final Payment Will Be Made On The Basis Of The Above Quantities Unless This Plan Is Modified By Supplemental Details.

GENERAL NOTES:
Specifications: Mississippi State Highway Department.
Concrete In Railing Shall Be Class "A". All Other Concrete Shall Be Class "B".
All Exposed Concrete Surfaces Shall Be Given A Uniform Rubbed Finish.
All Exposed Edges Shall Be Chamfered ¾" Except Where Otherwise Noted.
Placing Dimensions For Reinforcing Steel To Concrete Surfaces Are Clear Distances.
All Structural Steel Shall Be Given One Shop Coat Of Red Lead Paint Per Code R-L.
After Erection, All Structural Steel Shall Be Given Three Field Coats Of Paint As Follows: First Coat Red Lead Per Code R-L, Second And Third Coats Aluminum Per Code B-A.
Shop Connections Shall Be ¾" Rivets.
Field Connections Shall Be ¾" Rivet Bolts Except Where Otherwise Noted.
All Work For Which No Pay Items Are Provided In The Proposal Will Not Be Paid For Directly And Compensation Therefor Will Be Considered Included In The Prices And Payments For Bid Items.

DESIGN DATA
Specifications: A.A.S.H.O. 1953
Loading: H15-44
f_s = 20,000 #/in²; f_c = 1200 #/in²; n = 10
f_s (Structural Steel) = 18,000 #/in²

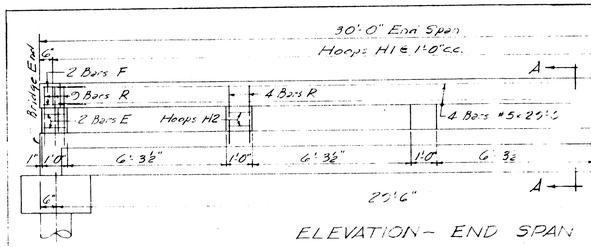
BOARD OF SUPERVISORS
WARREN COUNTY
VICKSBURG, MISSISSIPPI

80 FT. WF BEAM SPAN
2.4 FT. ROADWAY

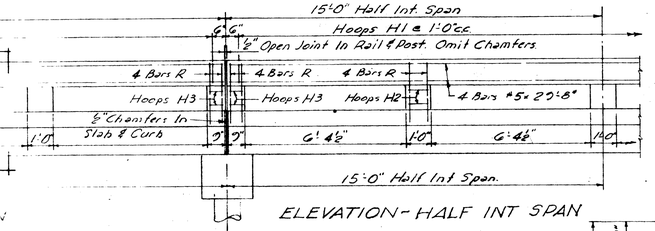
E. B. CAVALLO & ASSOCIATES, ENGINEERS
503 BARNETT-MADDEN BLDG.
JACKSON, MISSISSIPPI

14953-1

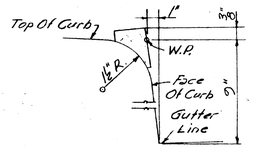
PLAN NO. WS-804



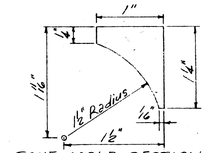
ELEVATION - END SPAN



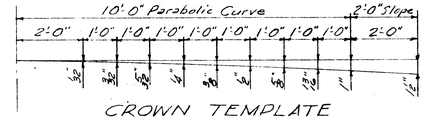
ELEVATION - HALF INT SPAN



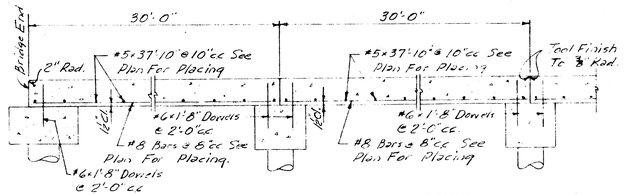
COVE MOLD INSTALLATION



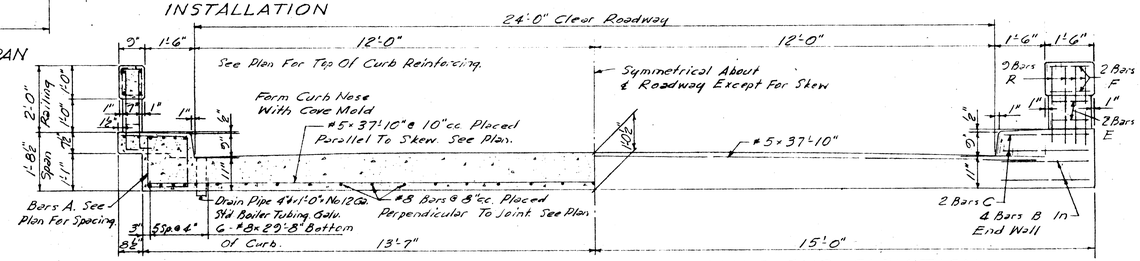
COVE MOLD SECTION



CROWN TEMPLATE

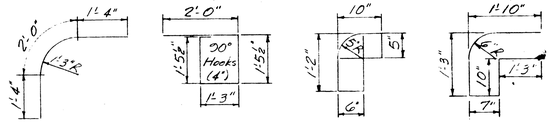


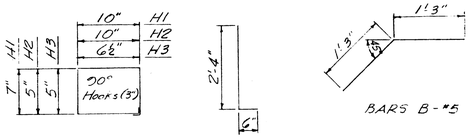
PART LONGITUDINAL SECTION



HALF SECTION A-A

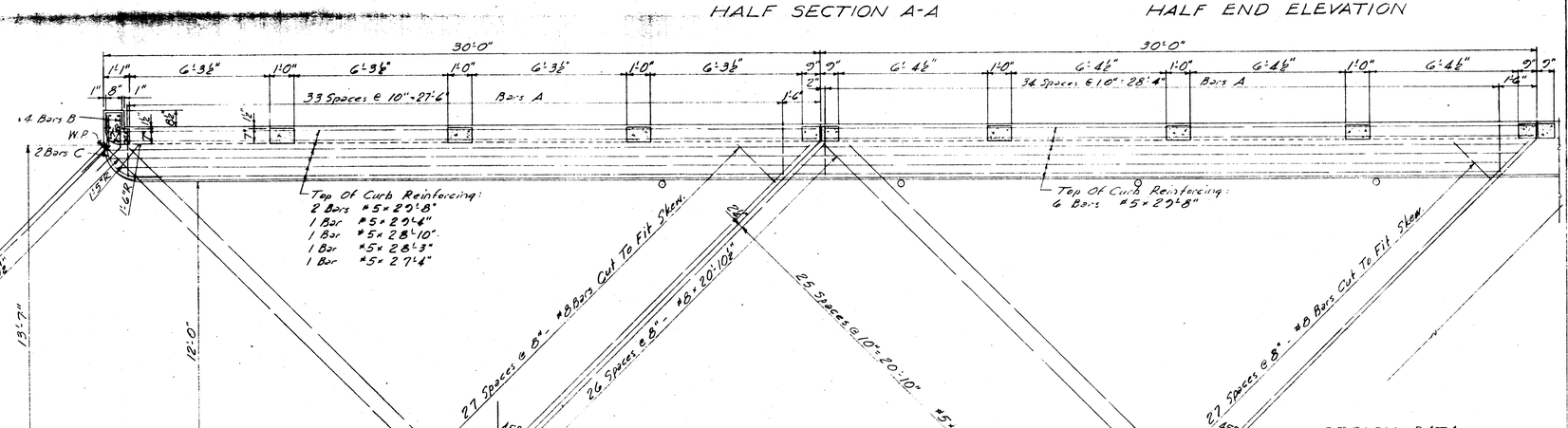
HALF END ELEVATION





BAR BENDING DETAILS

All Reinforcing Steel Details Shall Be In Accordance With "Detailing Manual For Reinforced Concrete Highway Structures."



PLAN QUANTITIES

	End Span	Int Span
Class 'B' Bridge Conc.	33.58 Cu Yd.	33.49 Cu Yd.
Reinforcing Steel	5970 Lbs.	5930 Lbs.
Railing	60 Lin Ft.	60 Lin Ft.

Final Payment Will Be Made On The Basis Of The Above Quantities.

DESIGN DATA

Specifications: AASHO. 1953
Loading: H15-44
f_s = 20,000 psi.; f_c = 1200 psi; n = 10

GENERAL NOTES:

Specifications: Mississippi State Highway Department.
All Concrete Shall Be Class 'B' Bridge Concrete.
All Exposed Concrete Surfaces Shall Be Given A Uniform Rubbed Finish.
All Exposed Edges Shall Be Chamfered ¾" Unless Otherwise Noted.
Placing Dimensions For Reinforcing Steel Are To Centers Of Bars Unless Otherwise Noted.
All Work For Which No Pay Items Are Provided In The Proposal Will Not Be Paid For Directly And Compensation Therefor Will Be Considered Included In The Prices And Payments For Bid Items.

BOARD OF SUPERVISORS
WARREN COUNTY
VICKSBURG MISSISSIPPI

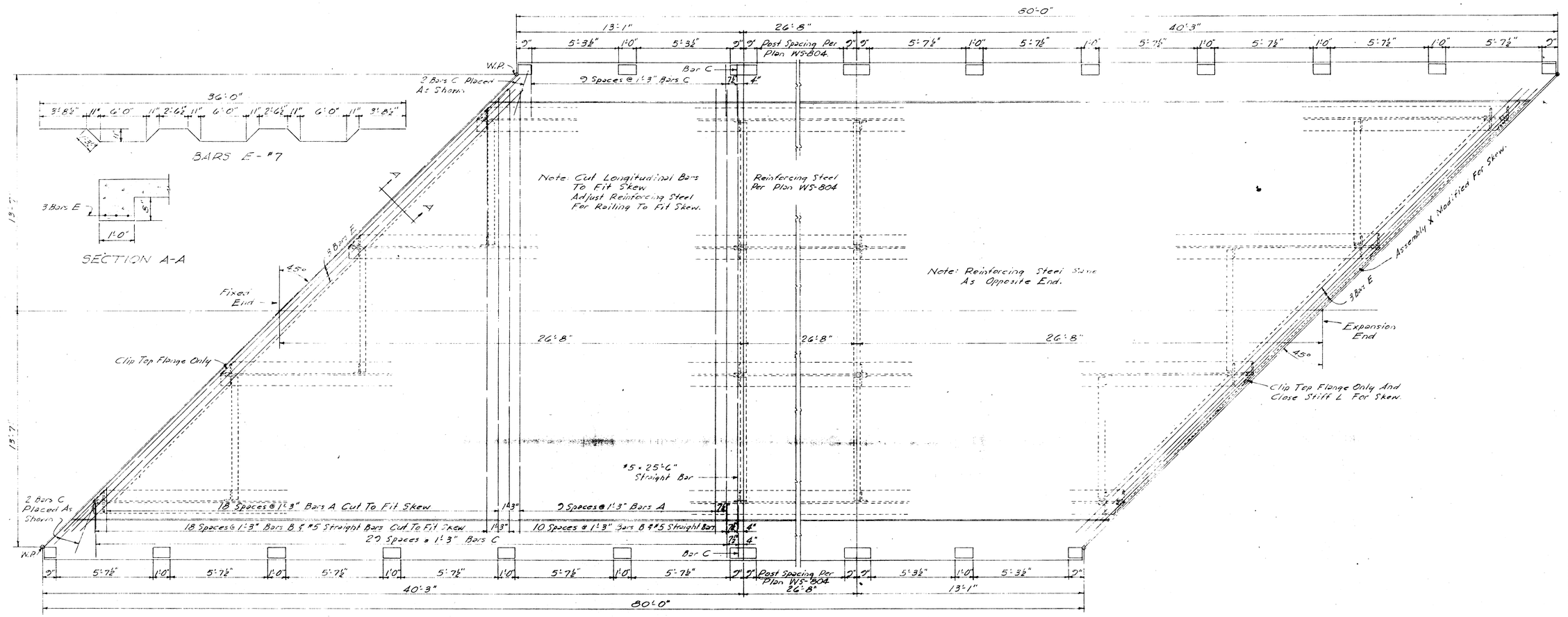
30 FT. CONCRETE SLAB SPAN
24 FT. ROADWAY — 45° SKEW

E. B. CAVALLO & ASSOCIATES, ENGINEERS
503 BARNETT-MADDEN BLDG.
JACKSON, MISSISSIPPI

14953-1

PLAN NO. WC-304-9&5

SP-1-3250(3) 12



PLAN

GENERAL NOTES:
All Dimensions, Details, And Requirements Of The Standard Plan WS-804 Shall Apply Except As Specifically Modified Hereon.

BOARD OF SUPERVISORS
WARREN COUNTY
VICKSBURG, MISSISSIPPI

80 FT WF BEAM SPAN
45° L.F. SKEW DETAILS

E.B. CAVALLO & ASSOCIATES, ENGINEERS
503 BARNETT-MADDEN BLDG.
JACKSON, MISSISSIPPI

14953-1

SHEET 5

PROJECT SP-1-3250(3)