



COUNTY: CLAY

DISTRICT: KC

Missouri Department of Transportation
State Bridge Inspection Report

CLASS: STATBR

FED-ID: 6413

BRIDGE: L0660

May 02, 2024
4:10:14PM

GENERAL STRUCTURE INFORMATION

BRIDGE INSPECTION INFORMATION

ROUTE: IS29N
FEATURE: CST NE PARVIN RD
STATUS: A-OPEN
LOG MILE: 4.539
DETOUR: 1.00 MILES
NHS: YES
BUILT: 1954
REHAB: 1983
LOCATION: S 1 T 50 R 33 W
LATITUDE: 39 9 59.73 (DMS)
LONGITUDE: 94 33 30.57 (DMS)

SPANS: 3
LANES ON: 3
LANES UNDER: 2
COMPASS DIRECTION: SOUTH to NORTH
DIRECTION OF TRAFFIC: 1-WAY TRAF
FUNCTIONAL CLASS: UR-INTERSTATE
NBI OWNER: MODOT
NBI MAINTAINED: MODOT
MAINTENANCE DISTRICT: KC
MAINTENANCE COUNTY: CLAY
SUB AREA: 7C25

PLACE CODE: 02800 AVONDALE CITY
LENGTH: 138 FT 0 IN
MAXIMUM SPAN: 62 FT 1 IN
APPROACH ROADWAY: 52 FT 0 IN
CURB TO CURB: 50 FT 10 IN
OUT TO OUT: 53 FT 6 IN
AADT: 56042
AADT YEAR: 2023
AADT TRUCK: 11.8%
FUTURE AADT: 100876
FUTURE AADT YEAR: 2043

DATE: 09/26/2022
RESPONSIBILITY: DISTRICT
FREQUENCY: 24
CALCULATED INTERVAL**: 24
TEAM LEADER: TIMOTHY HAZLETT
ELEMENT: YES
INSPECTOR 2:
INSPECTOR 3:
INSPECTOR 4:
** When calculated interval exceeds the frequency, a justification comment per BIRM is required.

GENERAL INSPECTION COMMENTS

FRACTURE CRITICAL INSPECTION INFORMATION

INDEPTH INSPECTION INFORMATION

DATE: RESPONSIBILITY: CATEGORY:
FREQUENCY: CALCULATED INTERVAL**: NBI:
TEAM LEADER: INSPECTOR 3: METHOD:
INSPECTOR 2: INSPECTOR 4:
** When calculated interval exceeds the frequency, a justification comment per BIRM is required.

DATE: RESPONSIBILITY: CATEGORY:
FREQUENCY: CALCULATED INTERVAL**: NBI:
TEAM LEADER: INSPECTOR 3: METHOD:
INSPECTOR 2: INSPECTOR 4:
** When calculated interval exceeds the frequency, a justification comment per BIRM is required.

FRACTURE CRITICAL INSPECTION COMMENTS

INDEPTH INSPECTION COMMENTS

SPECIAL INSPECTION INFORMATION

UNDERWATER INSPECTION INFORMATION

DATE: RESPONSIBILITY: CATEGORY:
FREQUENCY: CALCULATED INTERVAL**: NBI:
TEAM LEADER: INSPECTOR 3: METHOD:
INSPECTOR 2: INSPECTOR 4:
** When calculated interval exceeds the frequency, a justification comment per BIRM is required.

DATE: RESPONSIBILITY: CATEGORY:
FREQUENCY: CALCULATED INTERVAL**: NBI:
TEAM LEADER: INSPECTOR 3: METHOD:
INSPECTOR 2: INSPECTOR 4:
** When calculated interval exceeds the frequency, a justification comment per BIRM is required.

SPECIAL INSPECTION COMMENTS

UNDERWATER INSPECTION COMMENTS

OTHER SPECIAL INSPECTIONS

OTHER UNDERWATER INSPECTIONS

DATE FREQUENCY CATEGORY NBI CALCULATED INTERVAL RESPONSIBILITY METHOD

DATE FREQUENCY CATEGORY NBI CALCULATED INTERVAL RESPONSIBILITY METHOD



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STRUCTURE POSTING

APPROVED CATEGORY: S-1 NO POSTING REQUIRED
Ton 1: Ton 2: Ton 3:
COMMENTS:

FIELD CATEGORY: S-1 NO POSTING REQUIRED
Ton 1: Ton 2: Ton 3: PROBLEM: PROBLEM DIRECTION:
COMMENTS:

GENERAL COMMENTS/MAJOR RATED ITEMS

GENERAL COMMENTS: (BOWDEJ1, 09/30/2008)--(37'-62'-37') CONT P/S CONC I-GDR SPANS

[ITEM 58] DECK: 7-GOOD CONDITION COMMENTS: (OTISL1, 09/29/2016)--T CRACKS
RATING : 02/02/2007 (OTISL1, 10/10/2018)--WEAR

[ITEM 59] SUPER: 5-FAIR CONDITION COMMENTS: (OTISL1, 10/10/2018)--OPEN CRACKING, SPALLING GIRDER 6, SPAN 1
RATING : 10/10/2018

[ITEM 60] SUB: 6-SATISFACTORY CONDITION COMMENTS: (OTISL1, 10/05/2020)--MODERATE SPALLS @ COLUMNS
RATING : 10/02/2014

[ITEM 61] BANK/CHANNEL: N-NOT APPLIC NO WATRWAY COMMENTS:
RATING : 05/18/2001

[ITEM 113] SCOUR: N-NOT APPLIC NOT WATERW COMMENTS:
RATING : 05/18/2001
EVALUATION TYPE :

[ITEM 71] WATERWAY ADEQUACY: NOT APPLICABLE COMMENTS:
RATING : 05/18/2001

[ITEM 72] APPRRDWY ALIGNMENT: 8-VERYGOOD COMMENTS:
RATING : 05/18/2001

RAILING AND APPROACH PAVEMENT COMPONENTS AND RATINGS

[ITEM 36A] BRIDGE RAILING RATING: MEETS CURRENT STANDARDS-1 RATING : 05/18/2001 COMMENTS:
MATERIAL CONSTRUCTION DIRECTION COMMENTS
REINFORCED CONCRETE SAFETY BARRIER CURB BOTH

[ITEM 36B] TRANSITION RAILING RATING: MEETS CURRENT STANDARDS-1 RATING : 11/13/2008 COMMENTS:
MATERIAL CONSTRUCTION DIRECTION COMMENTS
GALVANIZED STEEL THRIE BEAM TO W-BEAM BOTH-SOUTH
GALVANIZED STEEL THRIE BEAM TO W-BEAM NORTHEAST

[ITEM 36C] APPROACH RAILING RATING: MEETS CURRENT STANDARDS-1 RATING : 05/18/2001 COMMENTS:



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<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>DIRECTION</u>	<u>COMMENTS</u>
GALVANIZED STEEL	W-BEAM	BOTH-SOUTH	
GALVANIZED STEEL	W-BEAM	NORTHEAST	

[ITEM 36D] RAIL END TREATMENT RATING: MEETS CURRENT STANDARDS-1 **RATING : 03/05/2002** **COMMENTS:**

<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>DIRECTION</u>	<u>COMMENTS</u>
GALVANIZED STEEL	BREKAWAY SYSTEM	SOUTH	

APPROACH PAVEMENT: *Overall condition assigned for each approach pavemenet component is shown below.

<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>DIRECTION</u>	<u>CONDITION*</u>	<u>COMMENTS</u>
ASPHALT/CONCRETE	BITUMINOUS MAT/SLAB	BOTH	GOOD	

<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>COMMENT</u>
SPALLS	ENDS		MODERATE	

*****DRAINAGE, EXPANSION DEVICES, BANK/SLOPE, AND DECK PROTECTIVE COMPONENTS*****

DECK PROTECTIVE COMPONENTS:

<u>SERIES TYPE-#</u>	<u>COMPONENT</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>THICKNESS</u>	<u>YEAR APPLIED</u>	<u>MANUFACTURE</u>	<u>OVERALL CONDITION</u>
MAIN SERIES-1	WEARING SURFACE	PLAIN CONCRETE	MONOLITHIC				
<u>COMMENT:</u>							
	DECK PROTECTION	EPOXY POLYMER	COATED REBAR				
<u>COMMENT:</u>							
	MEMBRANE	NOTAPPLICABLE	NONE				
<u>COMMENT:</u>							

DRAINAGE COMPONENTS:

<u>COMPONENT</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>DIRECTION</u>	<u>COMMENTS</u>
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EXPANSION DEVICE COMPONENTS:

<u>SUB UNIT-#</u>	<u>SUB LABEL</u>	<u>COMPONENT</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>GAP</u>	<u>YEAR APPLIED</u>	<u>MANUFACTURE</u>	<u>OVERALL CONDITION</u>
<u>COMMENT:</u>								

BANK/SLOPE PROTECTION COMPONENTS:

<u>COMPONENT</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>DIRECTION</u>	<u>COMMENTS</u>
SLOPE PROTECTION	PLAIN CONCRETE	PAVEDSLOPE	BOTH	

*****DECK COMPONENTS*****

<u>SPAN TYPE-#</u>	<u>COMPONENT</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>COMMENTS</u>
MAIN SPANS-1	DECK	REINFORCED CONCRETE	CAST-IN-PLACE	
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u> <u>MEASUREMENT</u> <u>COMMENT</u>
	TRANSVERSE CRACKS	THROUGHOUT		FEW
	WEAR	THROUGHOUT		MEDIUM
MAIN SPANS-2	DECK	REINFORCED CONCRETE	CAST-IN-PLACE	



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<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
TRANSVERSE CRACKS WEAR	THROUGHOUT THROUGHOUT		FEW MEDIUM		
<i>MAIN SPANS-3</i>	<i>DECK</i>	<i>REINFORCED CONCRETE</i>	<i>CAST-IN-PLACE</i>		
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
TRANSVERSE CRACKS WEAR	THROUGHOUT THROUGHOUT		FEW MEDIUM		

SUPERSTRUCTURE COMPONENTS

<u>SERIES TYPE-#</u>	<u>SPAN TYPE</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>LABEL</u>	<u>COMMENTS</u>
<i>MAIN SERIES-1</i>	<i>CONTINUOUS SPAN</i>	<i>PRESTRESSED CONCRETE</i>	<i>I-GIRDERS</i>		
<u>SPAN</u>	<u>COMPOSITE INDICATOR</u>	<u>LENGTH</u>	<u>WEATHERING STEEL</u>	<u>COMMENTS</u>	
MAIN SPANS-1	COMPOSITE	37 FT 8 IN	NO		
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
LEACHING LONGITUDINAL CRACKS RUST STAINS SHEAR CRACKS SPALLS	GIRDER ENCASEMENT GDR6 GDR6 GDR6 GDR6		MODERATE MINOR MINOR FINE MODERATE		
MAIN SPANS-2	COMPOSITE	62 FT 1 IN	NO		
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
MAIN SPANS-3	COMPOSITE	37 FT 8 IN	NO		
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
LEACHING VERTICAL CRACKS	GIRDER ENCASEMENT DIAPHRAGMS		MODERATE MINOR		

SUBSTRUCTURE COMPONENTS

<u>SUBSTRUCTURE</u>	<u>SKEW</u>	<u>LENGTH</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>LABEL</u>	<u>COMMENTS</u>		
<i>ABUTMENT-1</i>	<i>RA-14 DEGREES</i>	<i>55 FT 2 IN</i>	<i>REINFORCED CONCRETE</i>	<i>INTEGRAL</i>				
<u>ASSOCIATED COMPONENT</u>	<u>CONDITION</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
BEAM CAP		REINFORCED CONCRETE	CAST-IN-PLACE					
	EFFLORESCENCE SPALLS VERTICAL CRACKS			THROUGHOUT THROUGHOUT THROUGHOUT		MODERATE MINOR MANY		(OTISL1, 10/05/2020)--AT GIRDER
PILING		STEEL	H-SHAPE					
TURNED BACK WINGS		REINFORCED CONCRETE	CAST-IN-PLACE					
FIXED BEARING		ELASTOMERIC	LAMIN NEOP/PTFE(ROTATI					
DIAPHRAGM		REINFORCED CONCRETE	CAST-IN-PLACE					
<i>BENT-2</i>	<i>RA-14 DEGREES</i>	<i>51 FT 10 IN</i>	<i>REINFORCED CONCRETE</i>	<i>MULTIPLE COLUMN</i>				



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<u>ASSOCIATED COMPONENT</u>	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>CONSTRUCTION</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
BEAM CAP		REINFORCED CONCRETE		CAST-IN-PLACE			
COLUMN	DELAMINATION	THROUGHOUT		CAST-IN-PLACE	MINOR		
FOOTING	DELAMINATION REBAR EXPOSED SPALLS	THROUGHOUT BOTTOM BOTTOM		SPREAD	MANY FEW MODERATE		
FIXED BEARING		ELASTOMERIC		LAMIN NEOP/PTFE(ROTATI			
BENT-3							
	RA-14 DEGREES	51 FT 10 IN	REINFORCED CONCRETE	MULTIPLE COLUMN			
BEAM CAP		REINFORCED CONCRETE		CAST-IN-PLACE			
COLUMN	DELAMINATION	BOTTOM		CAST-IN-PLACE	MODERATE		
FOOTING	VERTICAL CRACKS	THROUGHOUT		SPREAD	FEW		
FIXED BEARING		ELASTOMERIC		LAMIN NEOP/PTFE(ROTATI			
ABUTMENT-4							
	RA-14 DEGREES	55 FT 2 IN	REINFORCED CONCRETE	INTEGRAL			
BEAM CAP		REINFORCED CONCRETE		CAST-IN-PLACE			
PILING	DELAMINATION LEACHING SPALLS VERTICAL CRACKS	THROUGHOUT TOP THROUGHOUT THROUGHOUT		H-SHAPE	MINOR MINOR MINOR FEW		
TURNED BACK WINGS		REINFORCED CONCRETE		CAST-IN-PLACE			
FIXED BEARING	SPALLS	THROUGHOUT		LAMIN NEOP/PTFE(ROTATI	FEW		
DIAPHRAGM		REINFORCED CONCRETE		CAST-IN-PLACE			

OVER/UNDER ROUTES CLEARANCE INFORMATION



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CLEARANCES OVER DECK

**NOTE: Vertical clearances for permitting purposes are taken as 2 inches less than the actual field measured clearance.

<u>VERTICAL CLEARANCE TYPE**</u>	<u>VALUE</u>	<u>DIRECTION</u>	<u>DATE</u>	<u>COMMENT</u>
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CLEARANCES UNDER BRIDGE

**NOTE: Vertical clearances for permitting purposes are taken as 2 inches less than the actual field measured clearance.

<u>RECORD #</u>	<u>ROUTE</u>	<u># LANES</u>	<u>DIRECTION OF TRAFFIC</u>	<u>RIGHT LATERAL CLEARANCE</u>	<u>LEFT LATERAL CLEARANCE</u>	<u>UR-ID</u>
1	CST NE PARVIN RD E	2	2-WAY TRAF	6 FT 6 IN		14193

<u>VERTICAL CLEARANCE TYPE**</u>	<u>VALUE</u>	<u>DIRECTION</u>	<u>DATE</u>	<u>COMMENT</u>
ACTUAL	18 FT 2 IN			

*****STRUCTURE PAINT INFORMATION*****

CONDITION:	RUST AMOUNT :	STEEL TONS :
<u>ORIGINAL PAINT</u> PAINT TYPE : NAME : PAINT COLOR : PAINT YEAR : MILS :	<u>CONTRACT REPAINT</u> PAINT TYPE : NAME : PAINT COLOR : PAINT YEAR : MILS :	<u>DEPARTMENT REPAINT</u> PAINT TYPE : NAME : PAINT COLOR : PAINT YEAR : MILS : MANUFACTURE : SURFACE PREP :

*****REQUESTED WORK ITEMS*****

GENERAL WORK COMMENTS:

<i>RESPONSIBILITY</i>	<i>LOCATION</i>	<i>ITEM</i>	<i>CATEGORY</i>	<i>PRIORITY</i>	<i>DATE</i>	<i>WORK ITEM COMMENT</i>
DISTRICT ROUTINE	SOUTH EAST	REPAIR EROSION	SLOPE	3	09/21/2016	
DISTRICT SPECIAL	ROADWAY SURFACE	SEAL WITH SILANE	DECK	3	04/11/2023	

*****UTILITY ATTACHMENTS*****

<i>UTILITY</i>	<i>OWNER</i>	<i>METHOD</i>	<i>MEASUREMENT TYPE</i>	<i>VALUE</i>	<i>NUMBER</i>	<i>UTILITY ATTACHMENT COMMENT</i>
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*****PROGRAM NOTES INFORMATION*****

Design_No = 10660



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<u>YEAR</u>	<u>PROJECT #</u>	<u>MONTH LET</u>	<u>YEAR LET</u>	<u>ITEMS</u>	<u>COMMENT</u>
COMPUTER GENERATED RATINGS AND DEFICIENCY ITEMS					***ADVANCED SIGN INFORMATION***
NOTE: The items listed in this section are updated whenever computer edits are ran on a structure after the inspection updates have been entered in to TMS.					SIGN #
Rated Item	Rating	Rating Date			SIGN TYPE
[Item 67] Structure Evaluation Rating:	5-BETTER THAN MINIMUM	3/5/2018			PROBLEM
[Item 68] Deck Geometry Rating:	5-BETTER THAN MINIMUM	5/18/2001			PROBLEM DIRECTION
[Item 69] Underclearance:	4-MEETS MINIMUM TOLERABLE	3/25/2003			
Sufficiency Rating:	71.6%	3/7/2024			
Deficiency:	NOT DEFICIENT	5/18/2001			
Funding Eligibility:		----			***OUTFALL INSPECTION INFORMATION***
Estimated New Structure Length:		----			# OUTFALLS:
Estimated Structure Cost:		----			INSPECTOR:
Estimated Total Project Cost:		----			STATUS:
Year of Cost Estimate:		----			DATE:
					NOTES:
NOTE: The above structure length and cost estimates are computer generated using algorithms in the TMS system. These algorithms are generalized to use NBI items to come up with a new structure length and width to calculate a new area which is taken times a representative cost per square foot. The actual structure size and cost may vary significantly from these numbers once site specific engineering is done.					



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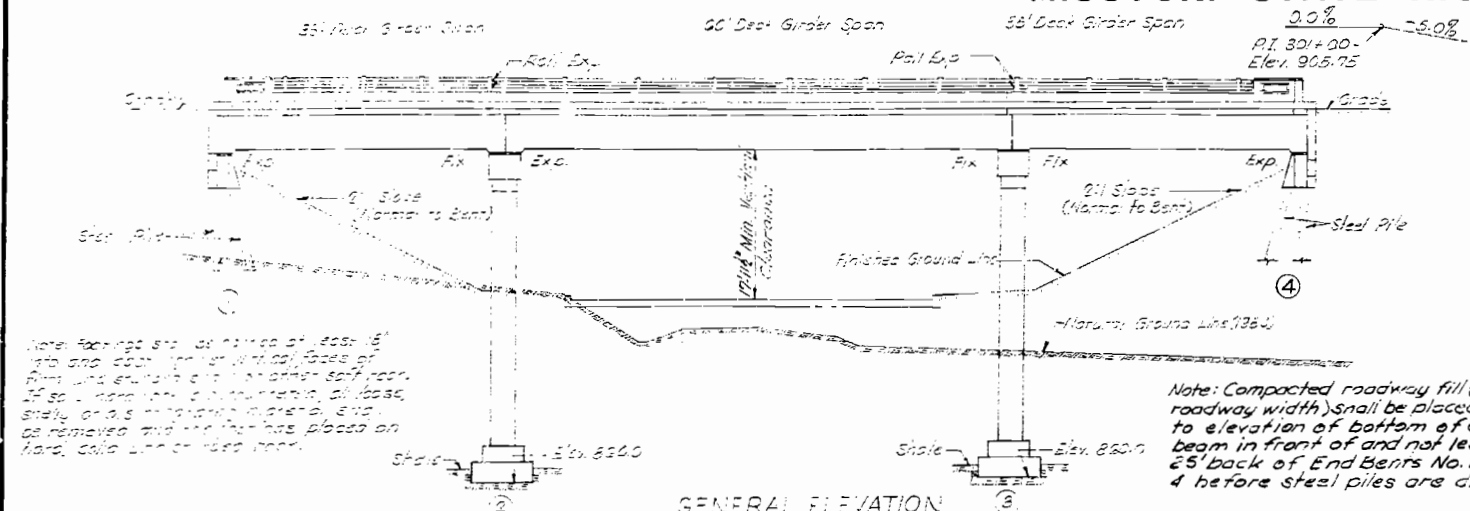
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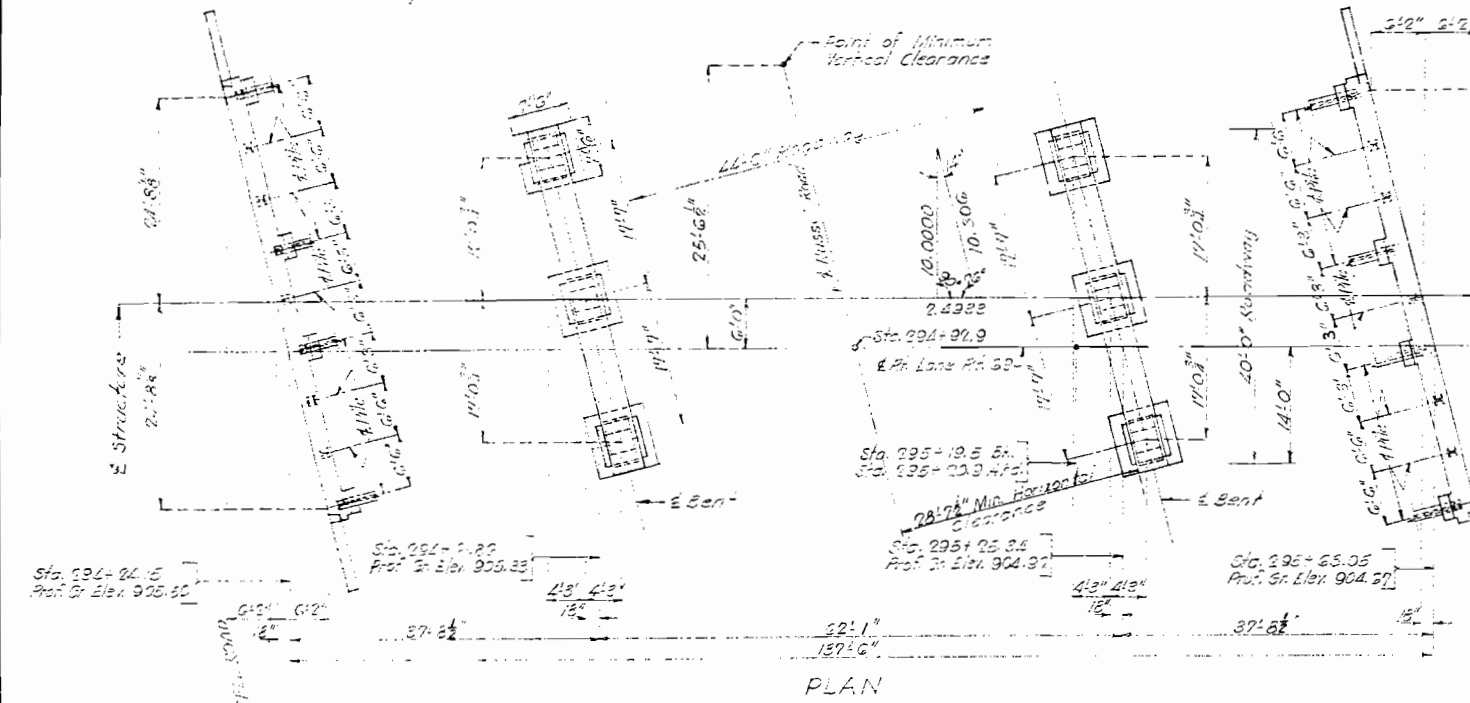
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MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	19		



Note: All piling shall be 12" bearing pile 9 5/8" and shall conform with details and notes on Sheet 25.2 of design plans. All steel pile required for this structure will be furnished by the State. See Special Provisions.
 All piles shall be driven to or into solid rock, boulders, shale, or cemented gravel or to not less than full length authorized and to sustain a load of at least 40 tons per pile.
 All piles shall be driven with a steam hammer.



GENERAL NOTES:
 Design Specifications AA.C.H.D. 1953
 Loading H20-S16
 Reinforcing Steel Stress 18,000 psi
 Class B Concrete Stress 1,000 psi
 All concrete shall be Class B (Air-Entrained)
 Where joint filler is specified on plans it shall conform with the requirements for Gray Rubber Compounds as given in Section 35-19.2.2 of the Standard Specifications.
 For requirements on welding electrodes see Special Provisions. Qualification of welding operators will be required.
 Surfaces of piles or bents (No. 2 & 4 from bottom of concrete cap to 9'0" below bottom of concrete cap) shall be painted with one coat of an approved brand of emulsified asphalt paint. Payment for excavating ground piles to 3'-0" below bottom of cap and backfilling same, furnishing emulsified asphalt paint and cleaning and painting steel surfaces specified will be included in the unit price bid for other items.
 A rubbed surface finish will be required on all exposed surfaces of concrete and prior to the top of curbs.

Drawn May 1954 by M.E.L.
 Checked May 1954 by J.E.L.
 Note: This drawing is not to scale. Follow dimensions.

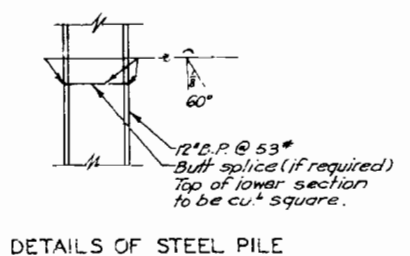
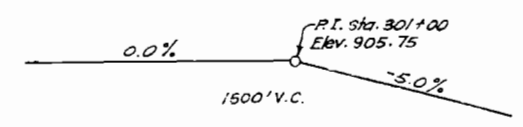
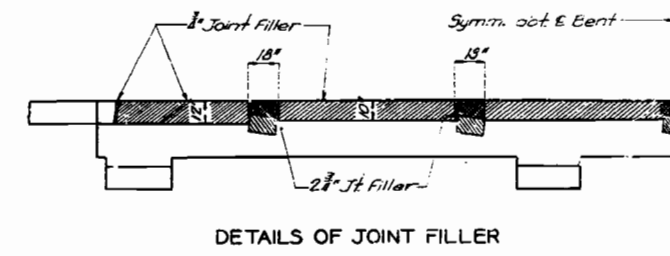
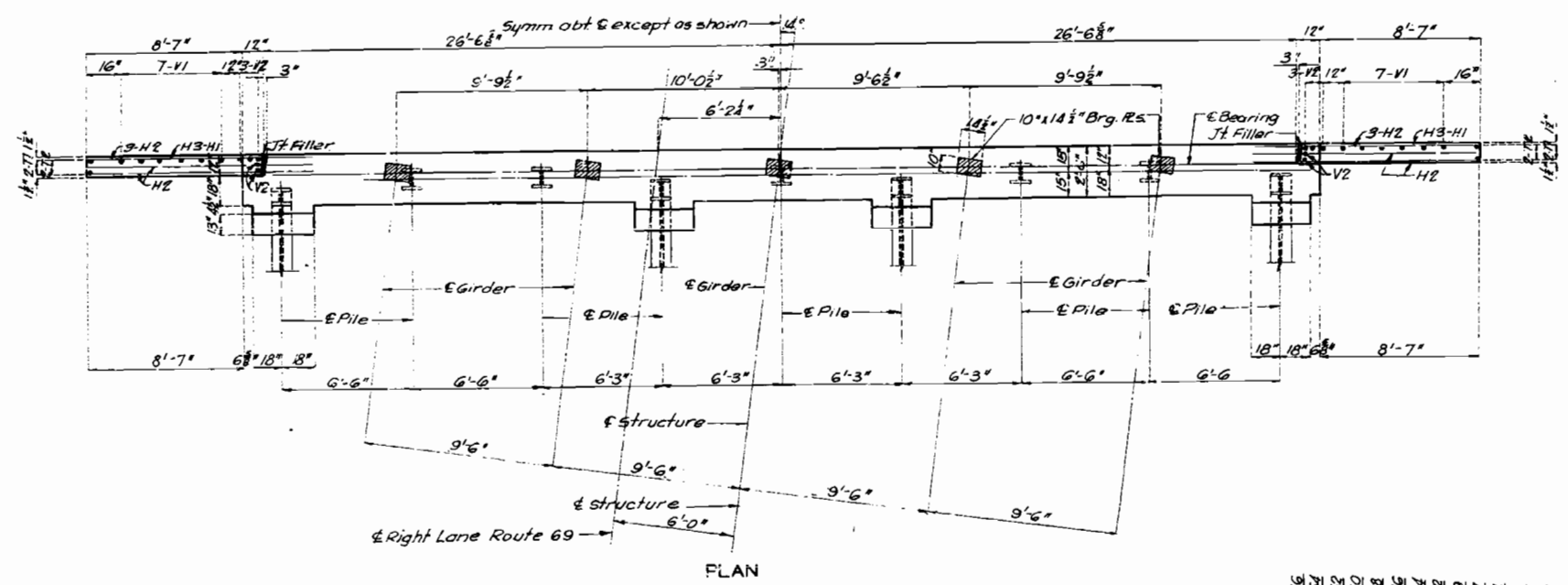
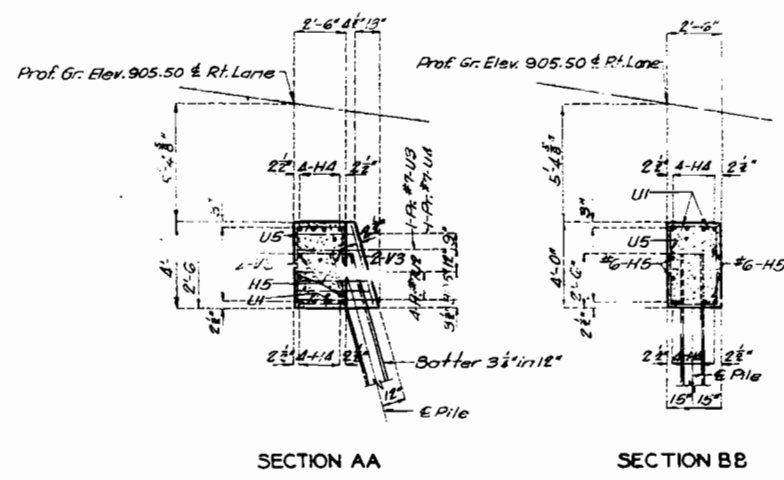
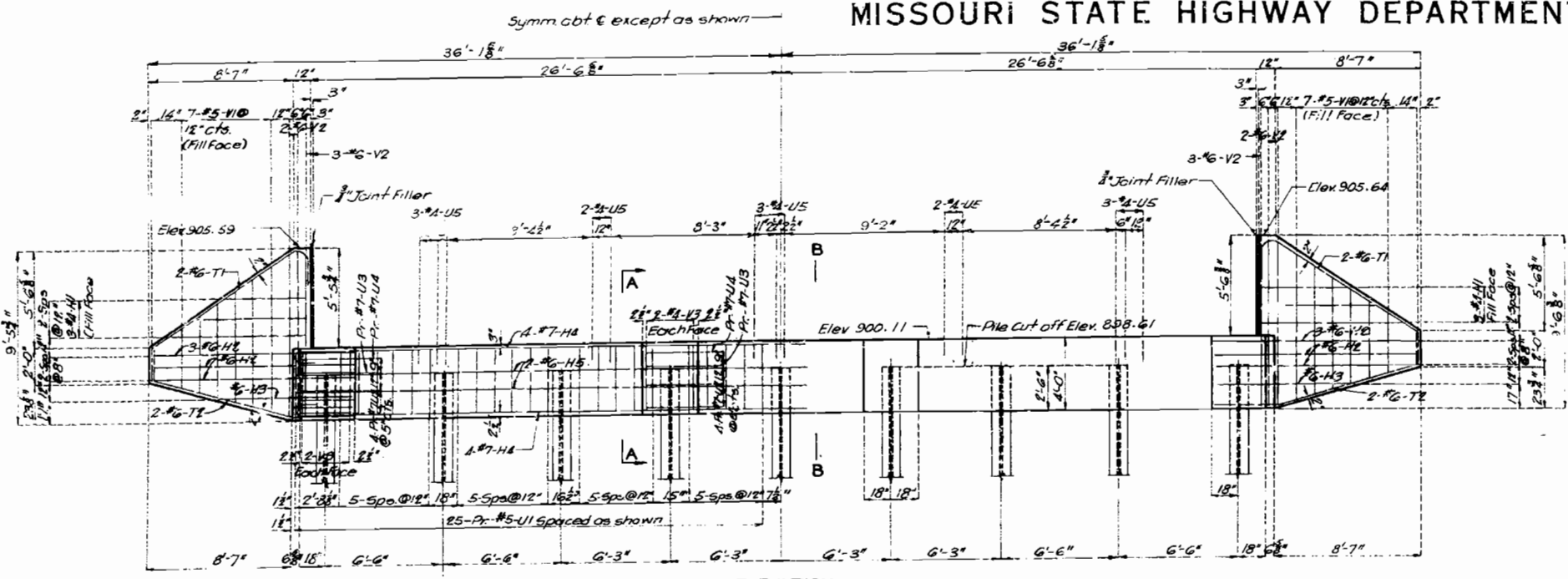
No.	Size	Length	Mark	Location	Bending Stresses & Cutting Diagrams				
End Bents No. 1 & 4					21'9" 10"	41'5" 10"	21'5" 11"	41'8" 12"	
3	#4	21'6"	H1	Wing B1#1					
10	#6	11'0"	H2	" "					
2	#5	8'0"	H2	" "					
22	#7	32'0"	H4	Beam					
15	#6	23'5"	H3	" "					
3	#3	12'5"	H6	Wing B1#4					
10	#6	10'5"	H7	" "					
2	#6	7'3"	H8	" "					
4	#6	15'3"	H1	Wing B1#1					
4	#6	12'3"	H2	" "					
1	#6	14'9"	H3	Wing B1#4					
11	#6	12'5"	H4	" "					
200	#5	7'0"	U1	Beam					
54	#7	8'2"	U2	" "					
15	#7	8'5"	U3	" "					
16	#7	8'5"	U4	" "					
26	#4	3'5"	U5	" "					
7	#5	10'9"	V1	Wing B1#1					
20	#5	31'0"	V2	Wing					
32	#4	31'3"	V3	Em. Hoop					
6	#5	11'6"	V4	Wing B1#4					
Int. Bents No. 2 & 3									
42	#8	81'6"	D1	Footings					
32	#6	81'3"	F1	Ch. Hoop					
16	#5	81'6"	F2	" "					
24	#10	21'5"	G1	Beam					
8	#6	22'5"	G2	" "					
28	#11	24'9"	G3	" "					
15	#10	10'10"	G4	" "					
186	#3	10'3"	F1	Column					
74	#5	13'8"	U5	Beam					
40	#5	11'0"	U9	" "					
22	#4	4'5"	U2	" "					
48	#6	34'9"	V4	Column					
Superstructure									
310	#4	10'9"	B1	Sl. Sp. (2-3)					
285	#4	11'9"	B2	Sl. Sp. (2-3)					
30	#11	39'5"	B3	Sl. Sp. (2-3)					
20	#11	41'9"	B4	" "					
16	#11	34'9"	B5	" "					
18	#9	37'5"	B6	" "					
30	#11	41'8"	B1	Sl. Sp. (3-5)					
30	#11	22'10"	B8	" "					
30	#11	52'3"	B9	" "					
30	#11	12'0"	B3	" "					
15	#11	52'3"	B3	" "					
16	#11	38'0"	B3	" "					
16	#11	31'0"	B4	" "					
50	#6	4'3"	B15	" "					
272	#5	41'6"	C1	Face					
10	#5	35'5"	C2	Face					

ESTIMATED QUANTITIES			
Item	Units	Quantity	Total
Class A Excavation for Structures	Cu. Yds.	360	360
Class B Concrete	Cu. Yds.	174.5	372.7
Reinforcing Steel	Lbs.	22,410	113,700
Gray Iron Alloy Castings	Lbs.	3610	3610
Aluminum Alloy Hardware	Qty.	245	245
Steel Piling in a Box (State Standard)	GP	620	620

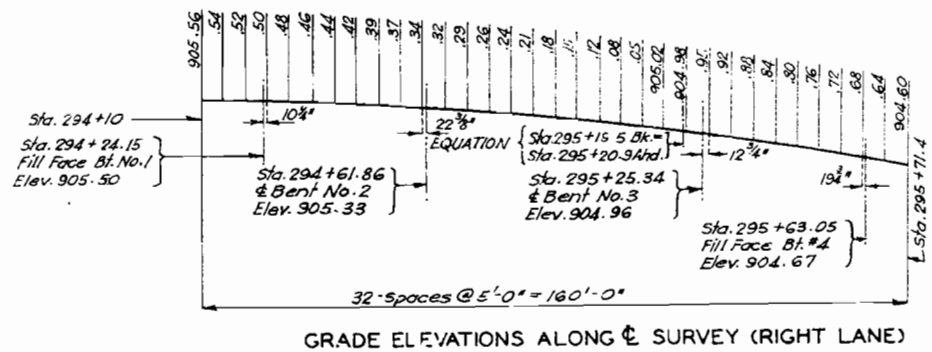
BRIDGE OVER RUSSELL ROAD
 STATE ROAD FROM ARMOUR ROAD IN NORTH KANSAS CITY N.E.
 ABOUT 2 MILES NORTH OF NORTH KANSAS CITY
 PROJECT NO. UI-99(6) (RT. 69) STA. 294+24.15 (P. 5) LANE
 COUNTY

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO	07-376 (RT. 69)	19		



DETAILS OF END BENT NO. 1



BRIDGE OVER RUSSELL ROAD
 STATE ROAD FROM ARMOUR ROAD IN NORTH KANSAS CITY N. E.
 ABOUT 2 MILES NORTH OF NORTH KANSAS CITY
 PROJECT NO. UI-99(6) (RT. 69) STA. 294+24.15 (RIGHT LANE)
 CLAY COUNTY

Drawn April 1954 by M.E.L. & J.T.F.
 Checked May 1954 by J.E.L.

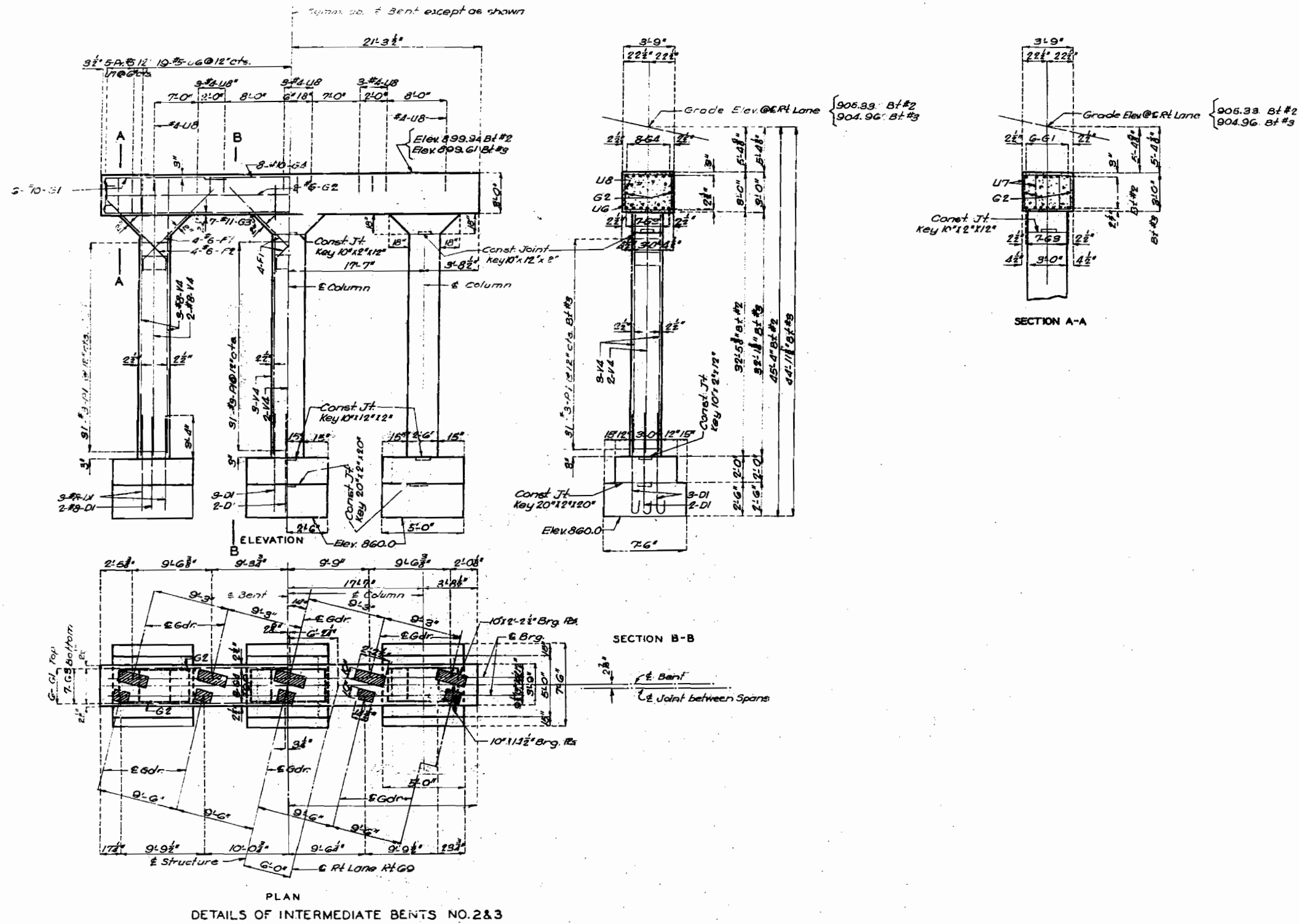
Note: This drawing is not to scale. Follow dimensions.

Sheet No. 2 of 7

L-660

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	UI-99(6)	(RT.69)	13	



BRIDGE OVER RUSSELL ROAD
 STATE ROAD FROM ARMOUR ROAD IN NORTH KANSAS CITY N.E.
 ABOUT 2 MILES NORTH OF NORTH KANSAS CITY
 PROJECT NO. UI-99(6) (RT.69) STA. 294+24.15 (RIGHT LANE)
CLAY COUNTY

Assembled April 1954 by M.E.L.F.W.G.S.
 Checked May 1954 by J.E.L.

Note: This drawing is not to scale. Follow dimensions.

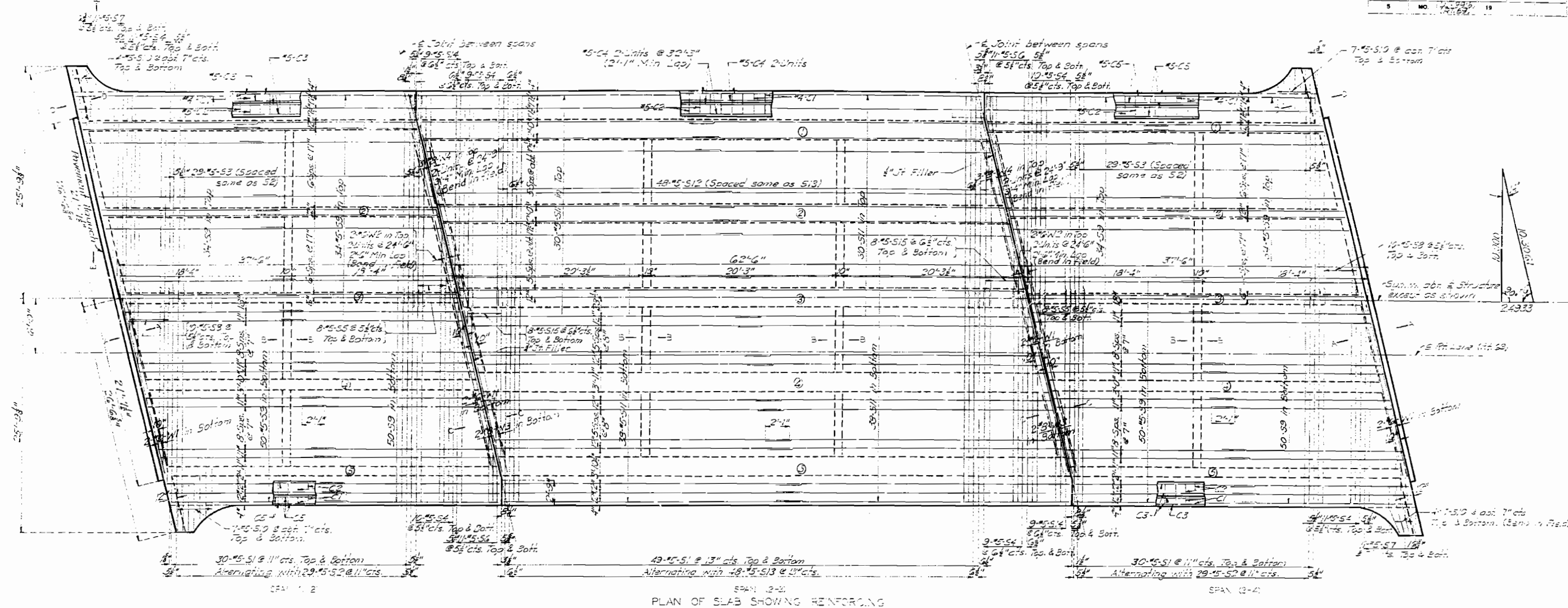
Sheet No 3 of 7

L-660

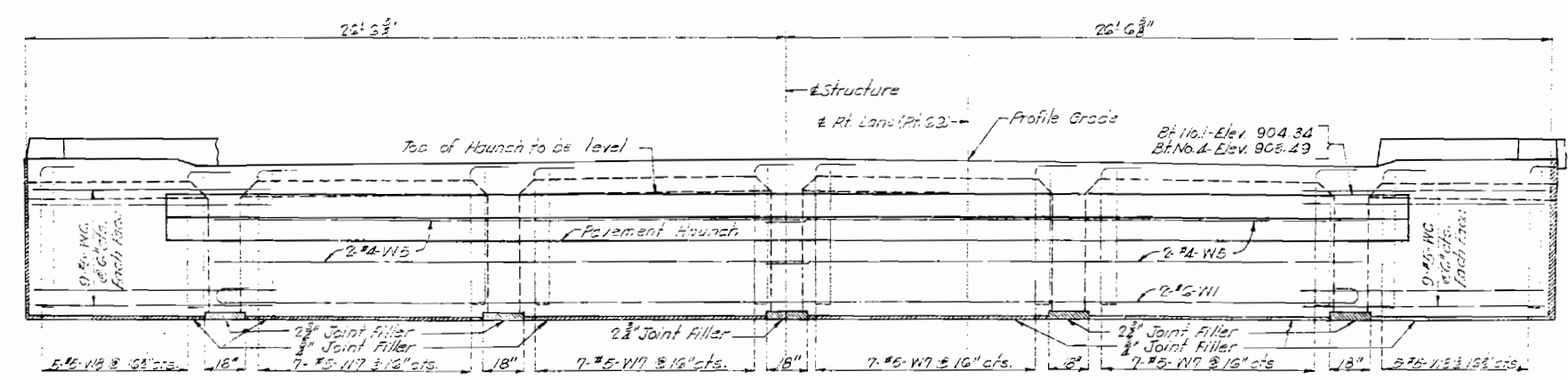
071

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100	19		

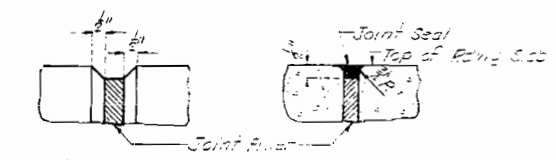


PLAN OF SLAB SHOWING REINFORCING



ELEVATION AT END BENT NO. 1 (End Bent No. 4 Similar)

Note: Stirrups W7 & W8 to be placed parallel to roadway.



Note: Use curb as shown for exposure face of all filled joints except at top surface of roadway. Use edging tool with beveling on top surface of roadway slab with side of joint and joint filler with joint seal at top.

DETAILS OF BEVEL FOR FILLED JOINTS

BRIDGE OVER POWELL CREEK
 STATE ROAD FROM ARMOUR ROAD IN NORTH KANSAS CITY N.E.
 ABOUT 2 MILES NORTH OF NORTH KANSAS CITY
 PROJECT NO. 61-29.6 (RT. 69) STA. 194+24.15 (BENT 1-45)
 CLAY COUNTY

Drawn Aug. 1954 by M.A.P.
Checked May 1954 by J.E.L.

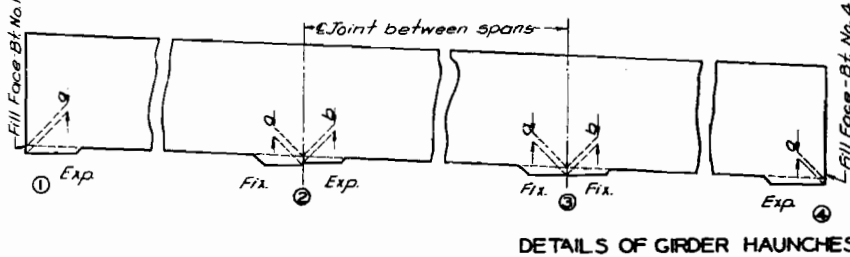
Note: This drawing is not to scale. Follow dimensions.

Sheet No. 6 of 7

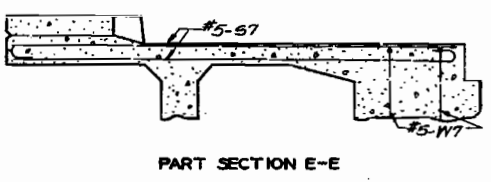
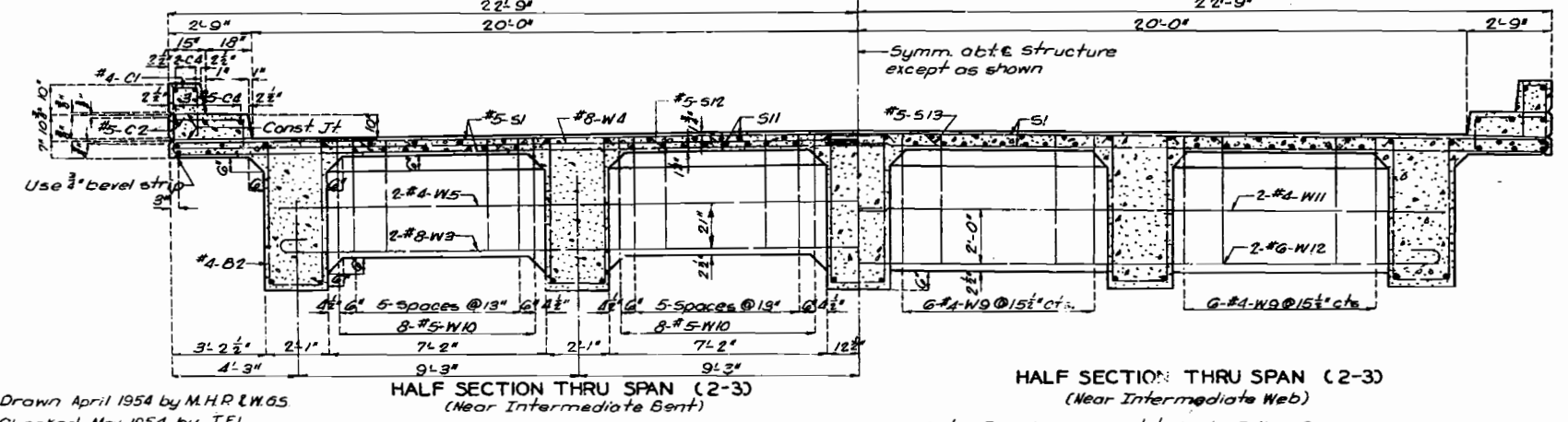
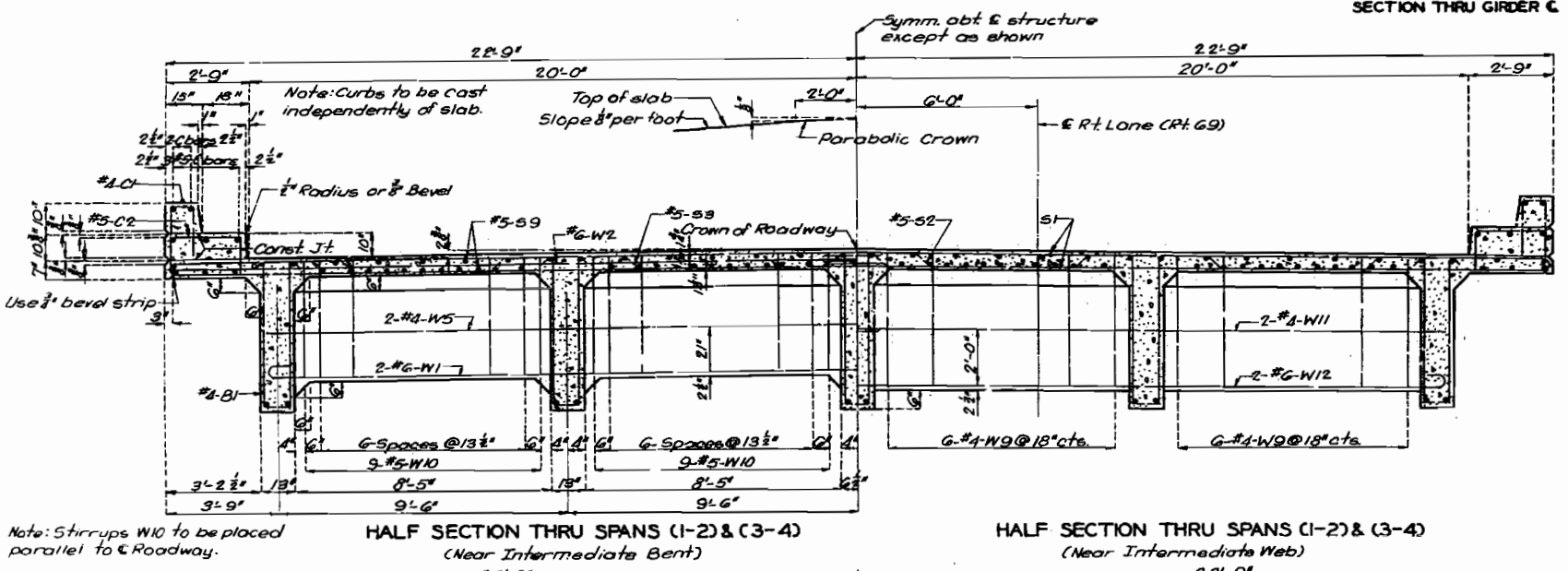
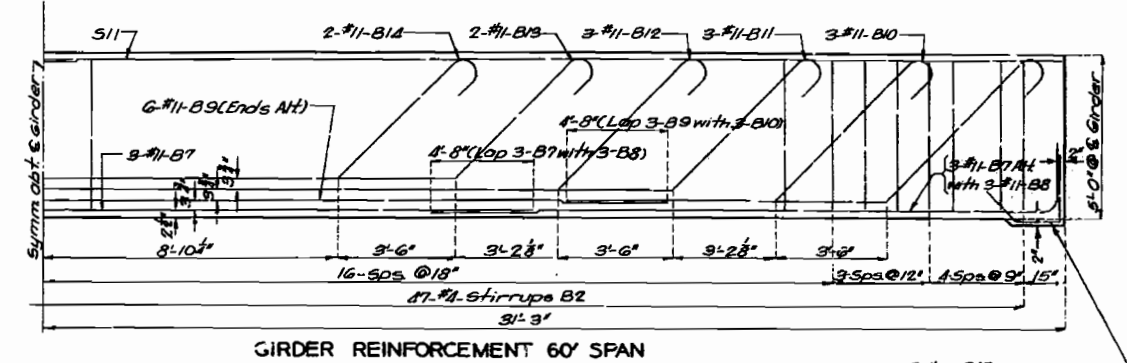
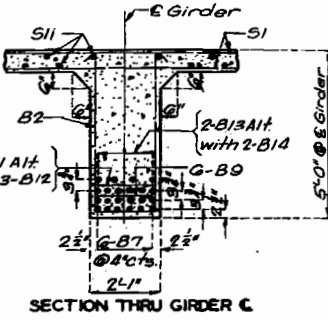
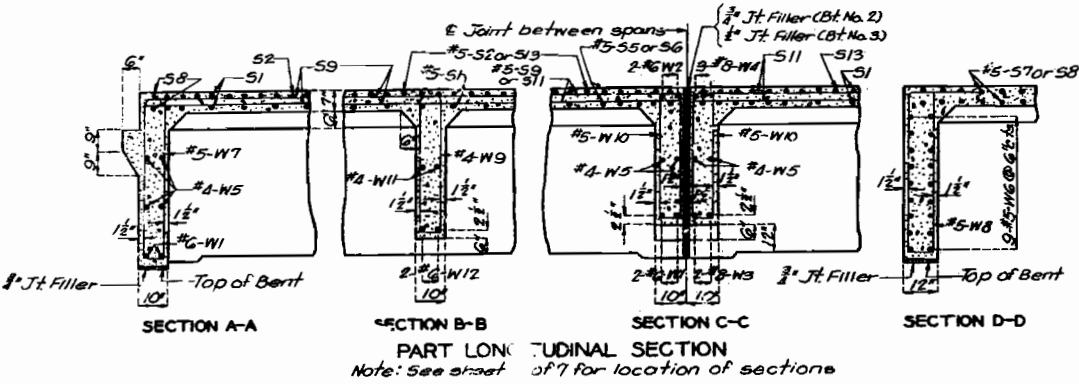
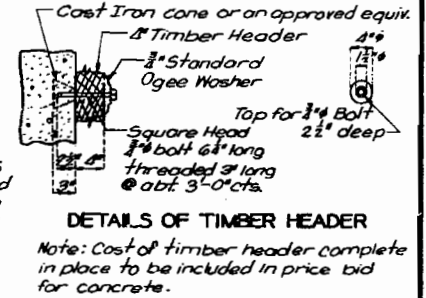
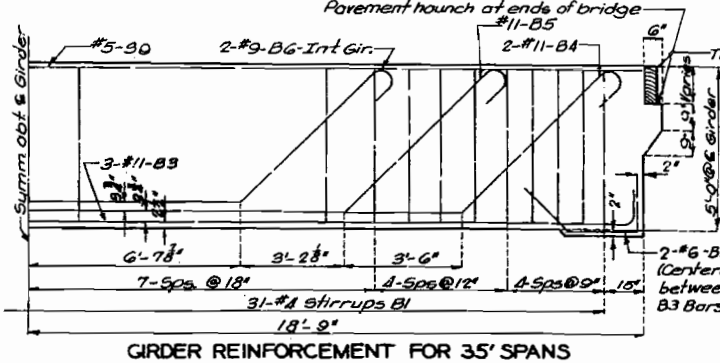
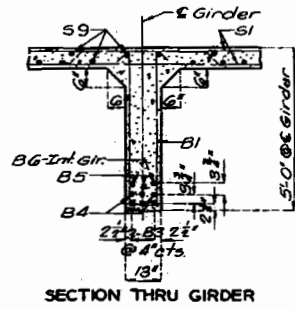
NO CONSTRUCTION CHANGES

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	UI-99(6) (RT.69)	19	5	7



GIRDER HAUNCHES						
Girder	Bt. No. 1	Bt. No. 2	Bt. No. 3	Bt. No. 4	Bt. No. 5	Bt. No. 6
1	9	9	9	9	9	9
2	13	22	13	22	13	22
3	28	31	28	31	28	31
4	13	22	13	22	13	22
5	13	22	13	22	13	22



BRIDGE OVER RUSSELL ROAD
 STATE ROAD FROM ARMOUR ROAD IN NORTH KANSAS CITY N.E.
 ABOUT 2 MILES NORTH OF NORTH KANSAS CITY
 PROJECT NO. UI-99(6) (RT.69) STA. 294+24.15 (RIGHT LANE)
CLAY COUNTY

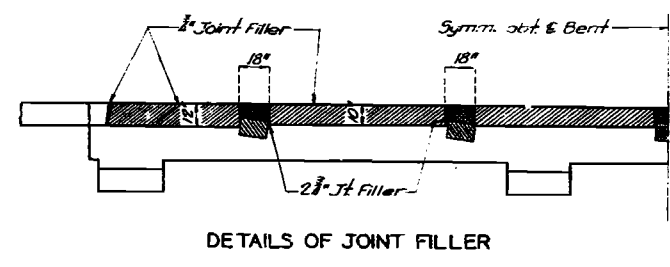
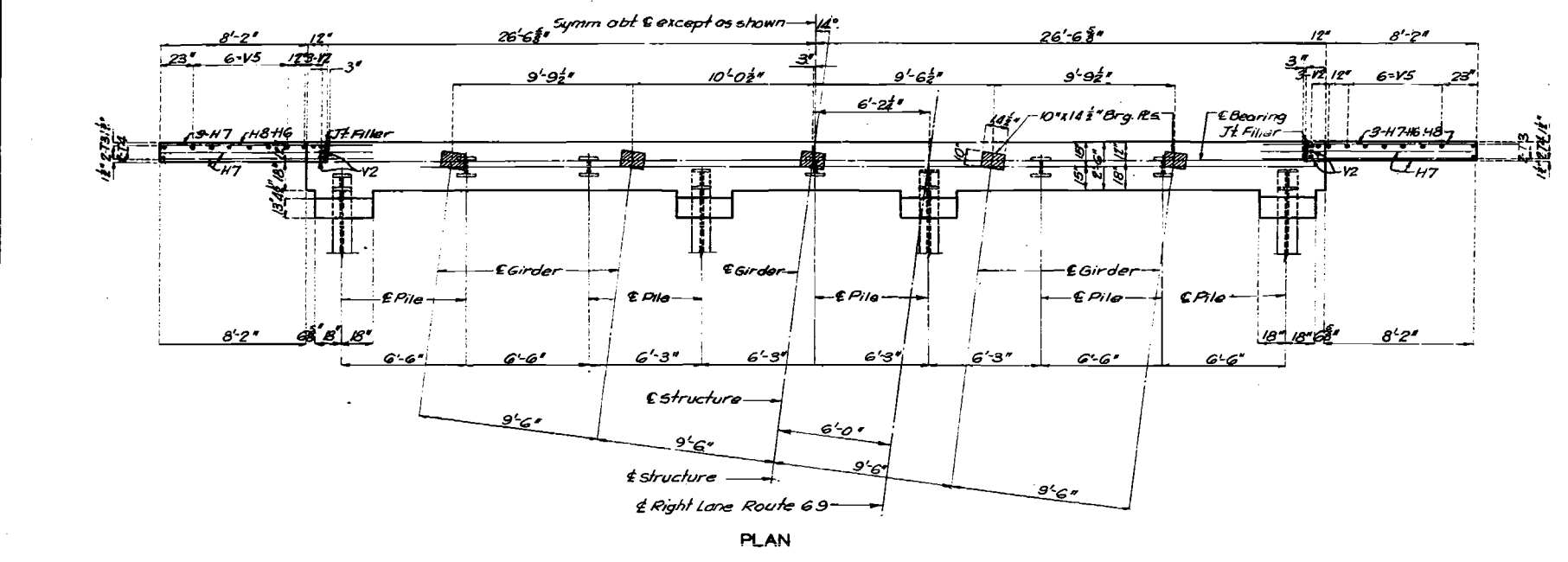
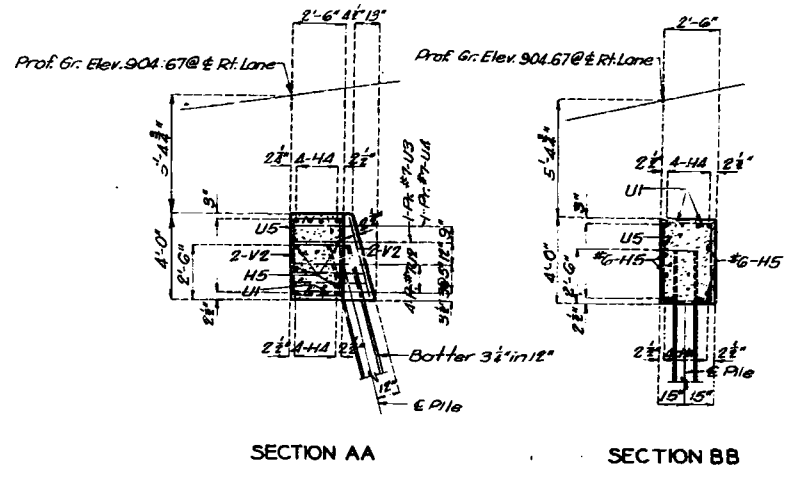
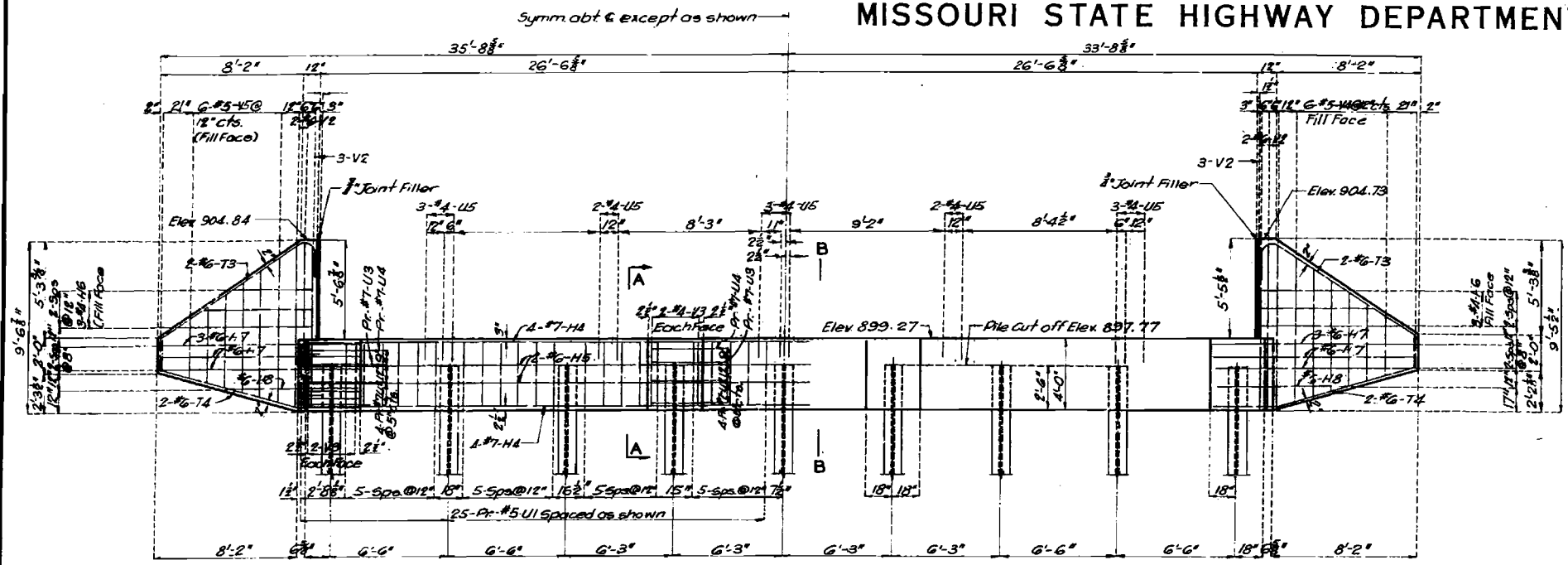
Drawn April 1954 by M.H.R. & W.G.S.
 Checked May 1954 by J.E.L.

Note: This drawing is not to scale. Follow Dimensions

Sheet No. 5 of 7

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	UI-99(6) (RT.69)	19		



DETAILS OF END BENT NO. 4

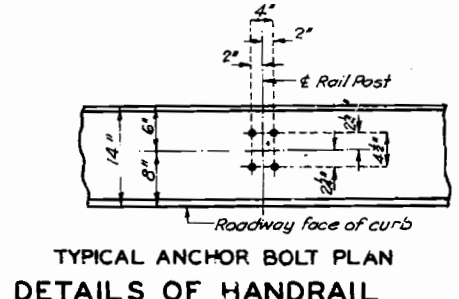
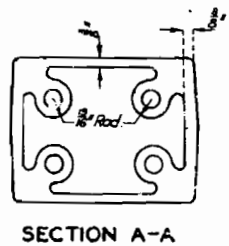
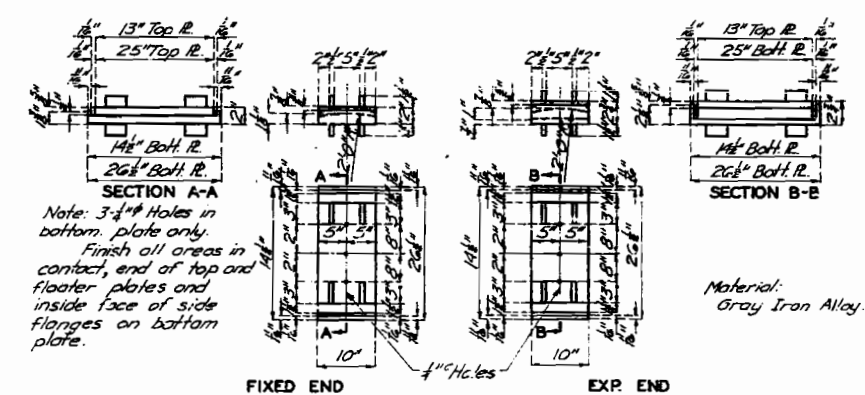
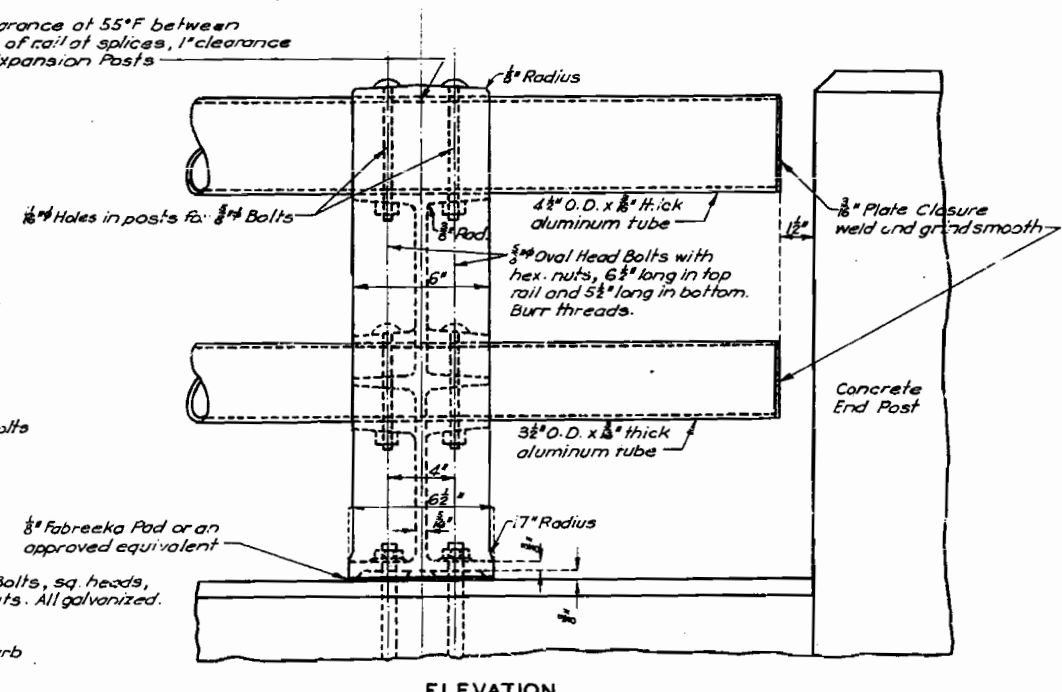
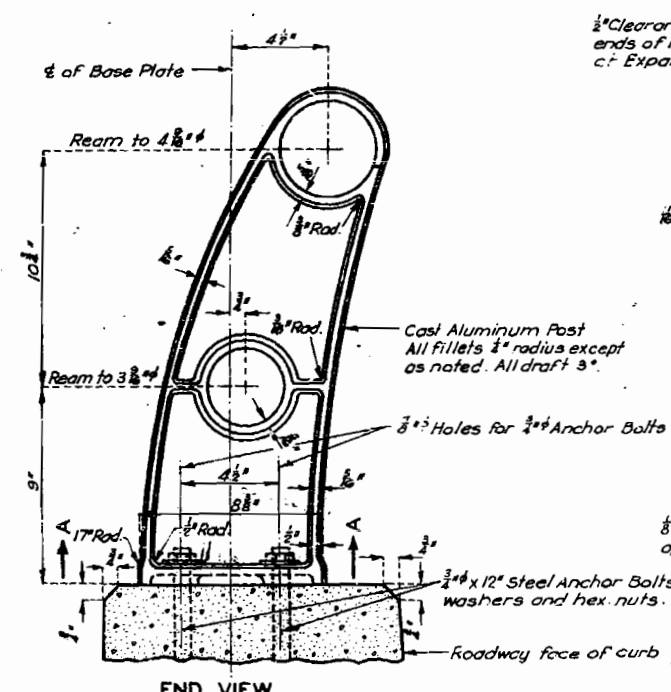
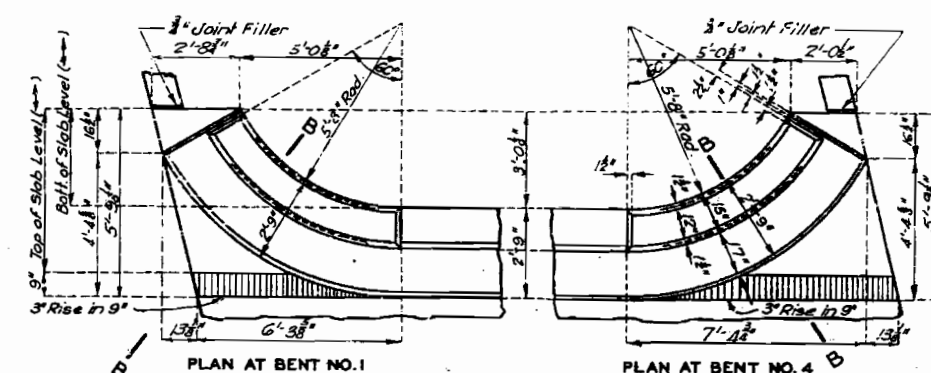
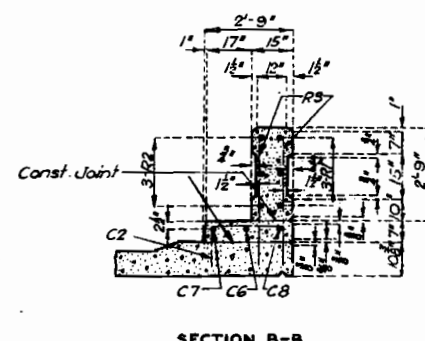
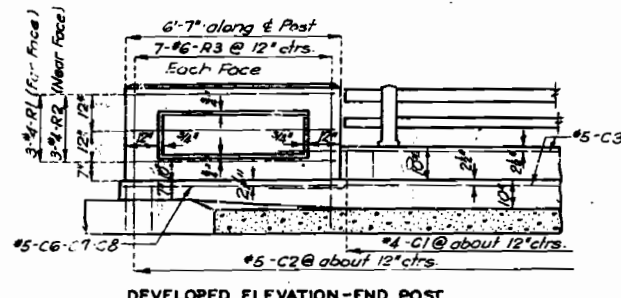
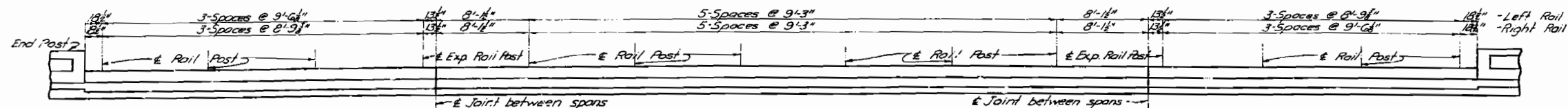
BRIDGE OVER RUSSELL ROAD
STATE ROAD FROM ARMOUR ROAD IN NORTH KANSAS CITY N.E.
ABOUT 2 MILES NORTH OF NORTH KANSAS CITY
PROJECT NO. UI-99(6) (RT.69) STA. 294+24.15 (RIGHT LANE)
CLAY COUNTY

Drawn April 1954 by M.E.L. & J.T.F.
Checked May 1954 by J.E.L.

Note: This drawing is not to scale. Follow dimensions.

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	UI-294(6) (RT.69)	19		



Note: All parts of handrail except steel anchor bolts and their washers and nuts to be aluminum. Bolt holes in tubes to be $\frac{1}{8}$ " x $\frac{1}{8}$ " slotted holes centered on bolts at normal temperature of 55° except, at expansion parts where holes shall be $\frac{1}{8}$ " x $\frac{1}{2}$ " slots.

Aluminum washer shims between Fabreka pad and post base may be used for adjusting rail alignment. Maximum thickness of shim to be $\frac{3}{8}$ ". Where more tilting of post is required for proper alignment, concrete bearing area shall be ground down.

Note: Bearing plates to be furnished in sets. Each set consisting of 1 top and 1 bottom plate for fixed end and 1 top plate, 1 slater plate and 1 bottom plate for expansion end.
Required: 10-Sets 10" x 13" plates.
5-Sets 10" x 25" plates.

BRIDGE OVER RUSSELL ROAD
STATE ROAD FROM ARMOUR ROAD IN NORTH KANSAS CITY N. E.
ABOUT 2 MILES NORTH OF NORTH KANSAS CITY
PROJECT NO. UI-99(6) (RT.69) STA. 294+24.15 CRIGHT LANE)
CLAY COUNTY

Drawn Apr. 1954 By M.H.P.
Traced Apr. 1954 By M.H.P.
Checked May 1954 By J.E.L.

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 7 of 7

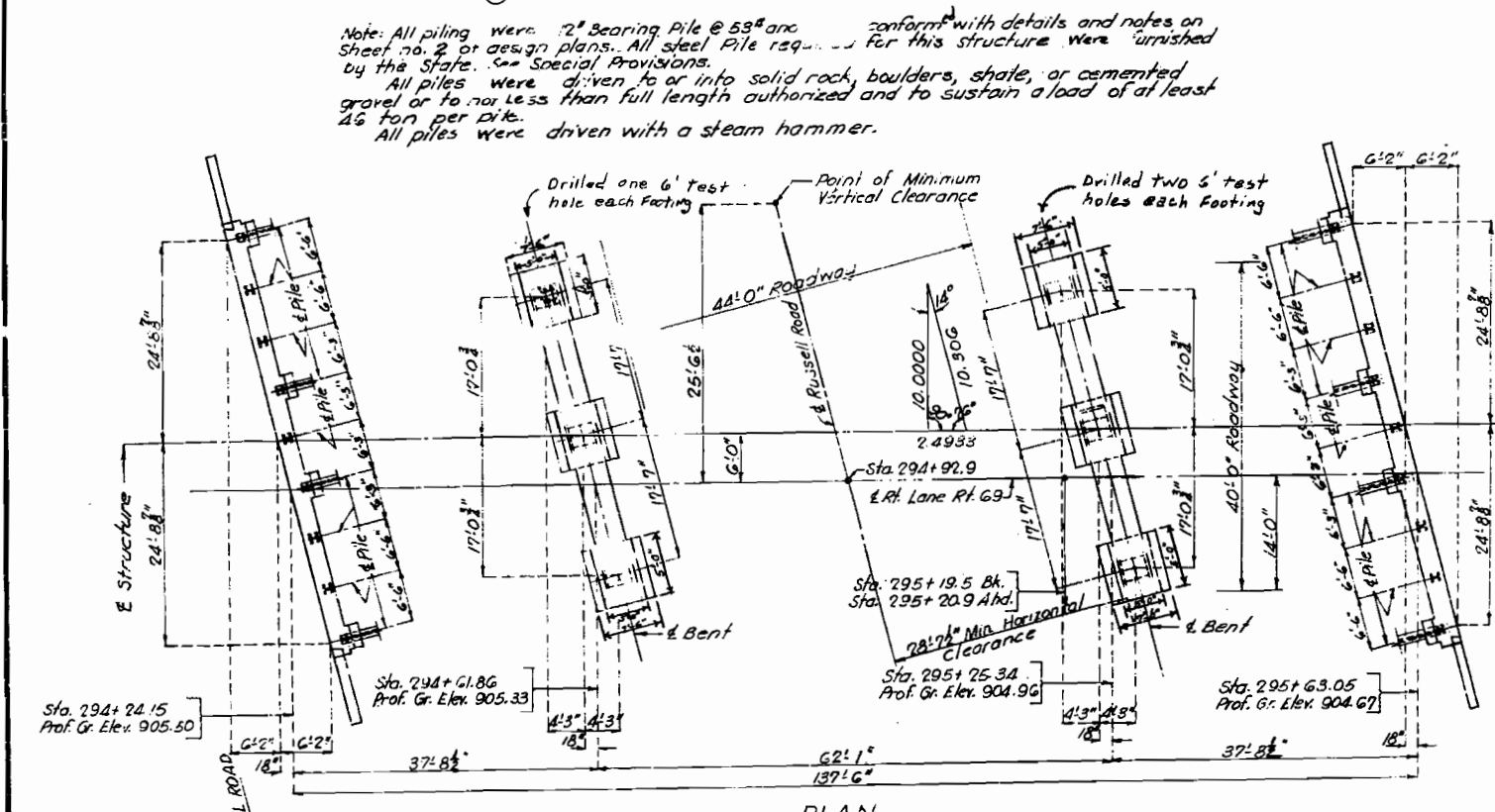
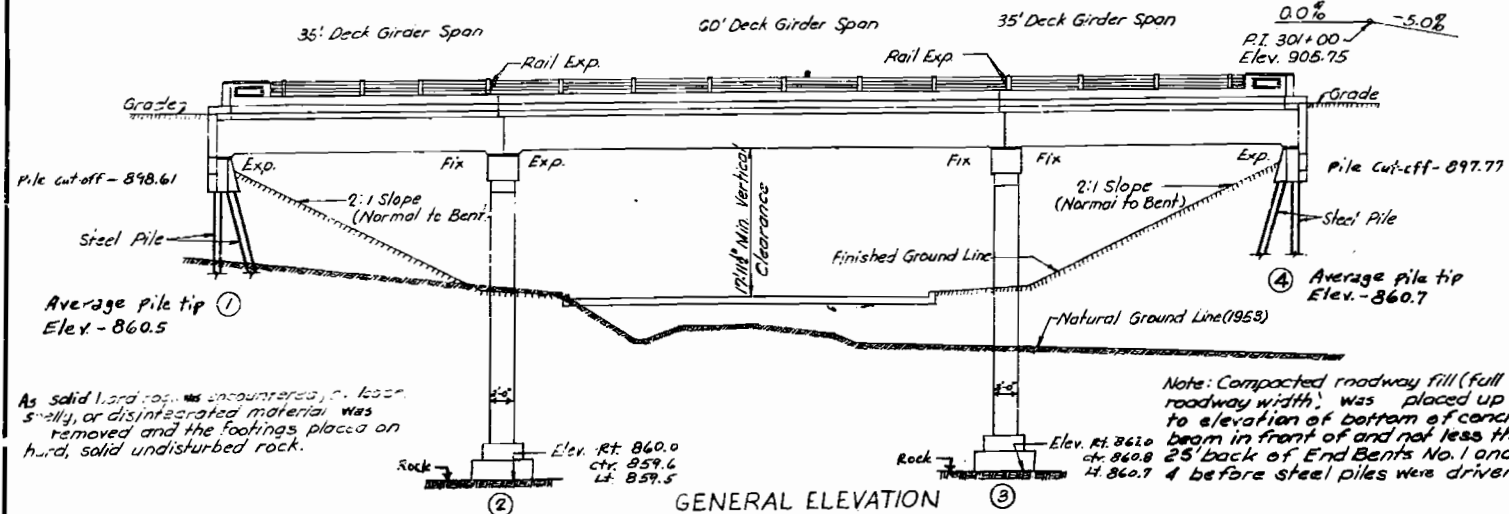
L-660

NO CONSTRUCTION CHANGES

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	UI-99(6)	19	18	23

FINAL PLANS



GENERAL NOTES:
 Design Specifications A.A.S.H.O 1953
 Loading H20-S16-44
 Reinforcing Steel Stress 18,000 psi
 Class B Concrete Stress 4,000 psi
 All concrete was Class B. (Air-Entrained)
 Where joint filler is specified on plans it conforms with the requirements for Gray Rubber
 Compound Joints as given in Section 38-19B or the Standard Specifications.
 For requirements on welding electrodes see Special Provisions. Qualification of
 welding operators was required.
 Surfaces of piles at Bents No. 1 & 4 from bottom of concrete cap to 30" below
 bottom of concrete cap was painted with one coat of an approved brand of emulsified
 asphalt paint. Payment for excavating around piles to 3'-0" below L. top of cap and backfilling
 same, furnishing emulsified asphalt paint and cleaning and painting steel surfaces
 specified was included in the unit price bid for other items.
 A rubber surface finish was required on all exposed surfaces of concrete
 and posts above top of curbs.

COMPLETE BILL OF REINFORCING STEEL

No.	Size	Length	Work	Location	Bending Sketches & Cutting Diagrams				No.	Size	Length	Work	Location				
End Bents No. 1 & 4									Superstructure (Cont'd)								
3	#4	12' 6"	H1	Wing B1 #1					20 #5 32' 3" CE Curb Sp (2-3)								
10	#6	11' 0"	H2	" "					10 #5 31' 0" CE Curb Sp (2-3)								
2	#6	8' 0"	H3	" "					4 #5 7' 8" CE Flored Curb								
32	#7	30' 0"	H4	Beam					4 #5 8' 6" C7 " "								
16	#6	28' 3"	H5	" "					4 #5 6' 0" C8 " "								
3	#4	12' 6"	H6	Wing B1 #4					12 #4 6' 0" R1 End Post								
10	#6	10' 6"	H7	" "					12 #4 6' 0" R2 " "								
2	#6	7' 3"	H8	" "					56 #4 9' 9" R3 " "								
4	#6	15' 3"	H9	Wing B1 #1					436 #5 23' 9" S1 Slab								
4	#6	12' 9"	H7	" "					58 #5 22' 0" S2 Slab Sp (2-3)								
4	#6	14' 9"	H3	Wing B1 #4					58 #5 23' 6" S3 " "								
4	#6	12' 6"	H4	" "					120 #5 24' 0" S4 Slab								
4	#6	12' 6"	H4	" "					16 #5 26' 9" S5 Slab Sp (2-3)								
16	#7	8' 3"	U3	" "					22 #5 28' 6" S6 " "								
16	#7	8' 3"	U4	" "	22 #5 30' 3" S7 " "												
26	#4	3' 3"	U5	" "	326 #5 29' 0" S8 " "												
7	#5	10' 9"	V1	Wing B1 #1	20 #5 19' 9" S9 " "												
20	#6	9' 0"	V2	Wing	44 #5 5' 3" S10 Flored Slab												
32	#4	3' 9"	V3	Am. Hrch	136 #5 32' 3" S11 Slab Sp (2-3)												
6	#5	11' 6"	V6	Wing B1 #4	48 #5 23' 3" S12 " "												
Int. Bents No. 2 & 3									48 #5 27' 6" S13 " "								
48	#8	8' 6"	D1	Footing					18 #5 27' 3" S14 " "								
32	#6	8' 6"	F1	Col. Hrch					16 #5 28' 0" S15 " "								
16	#6	8' 6"	F2	" "					8 #6 42' 0" W1 End Web (2-3)								
24	#10	21' 6"	G1	Beam					8 #6 24' 6" W2 " "								
8	#6	22' 6"	G2	" "					4 #8 12' 0" W3 " " Sp (2-3)								
28	#11	24' 9"	G3	" "					12 #8 25' 0" W4 " "								
16	#10	10' 0"	G4	" "					32 #4 21' 3" W5 End Web								
186	#3	10' 9"	P1	Column					72 #5 8' 3" W6 End Web Sp (2-3)								
74	#5	13' 6"	UG	Beam					56 #5 12' 0" W7 " "								
40	#4	11' 0"	U7	" "					20 #5 12' 3" W8 " "								
22	#4	4' 6"	U8	" "					96 #4 13' 3" W9 Int. Web								
48	#8	34' 9"	V4	Column					136 #5 10' 0" W10 End Web								
Superstructure													16 #4 20' 3" W11 Int. Web				
310	#4	10' 9"	B1	Gir. Sp (1-2) (3-4)									8 #6 40' 9" W12 " "				
235	#4	11' 9"	B2	Gir. Sp (2-3)	40 #5 4' 0" B16 Gm. Sp (2-3)												
30	#11	39' 6"	B3	Gir. Sp (1-2) (3-4)													
20	#11	41' 9"	B4	" "													
10	#11	34' 9"	B5	" "													
12	#11	27' 6"	B6	" "													
30	#11	41' 3"	B7	Gir. Sp (2-3)													
30	#11	22' 0"	B8	" "													
30	#11	52' 3"	B9	" "													
30	#11	19' 0"	B10	" "													
15	#11	52' 3"	B11	" "													
15	#11	45' 0"	B12	" "													
10	#11	32' 0"	B13	" "													
10	#11	31' 0"	B14	" "													
50	#6	4' 3"	B15	" "													
216	#4	3' 9"	C1	Curb													
272	#5	4' 6"	C2	" "													
10	#5	33' 9"	C3	" "													

FINAL QUANTITIES FINAL PLANS

Item	Substr.	Superstr.	Total
Class I Excavation for Structures	Cu. Yds.	360.0	360.0
Class B Concrete	Cu. Yds.	174.2	572.3
Reinforcing Steel	Lbs.	22570	119460
Gray Iron Alloy Castings	Lbs.		3610
Aluminum Alloy Handrail	Lin. Ft.		245
Steel piling in place (Site furnished)	Lin. Ft.		678
Class I Excavation for Structures plus 25%			3
Test holes			54

B.M. Elev. -90.84 on top of Lt. Wing Bent #4

BRIDGE OVER RUSSELL ROAD

STATE ROAD FROM ARMOUR ROAD IN NORTH KANSAS CITY N.E.
 ABOUT 2 MILES NORTH OF NORTH KANSAS CITY
 PROJECT NO. UI-99(6) (RT. 69) STA. 294+24.15 (RIGHT LANE)

CLAY COUNTY

J. A. Williamson 6/10/1954
 R. M. Whitton 6/10/1954

Drawn May 1954 by M.E.L.
 Checked May 1954 by J.E.L.

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 1A of 2

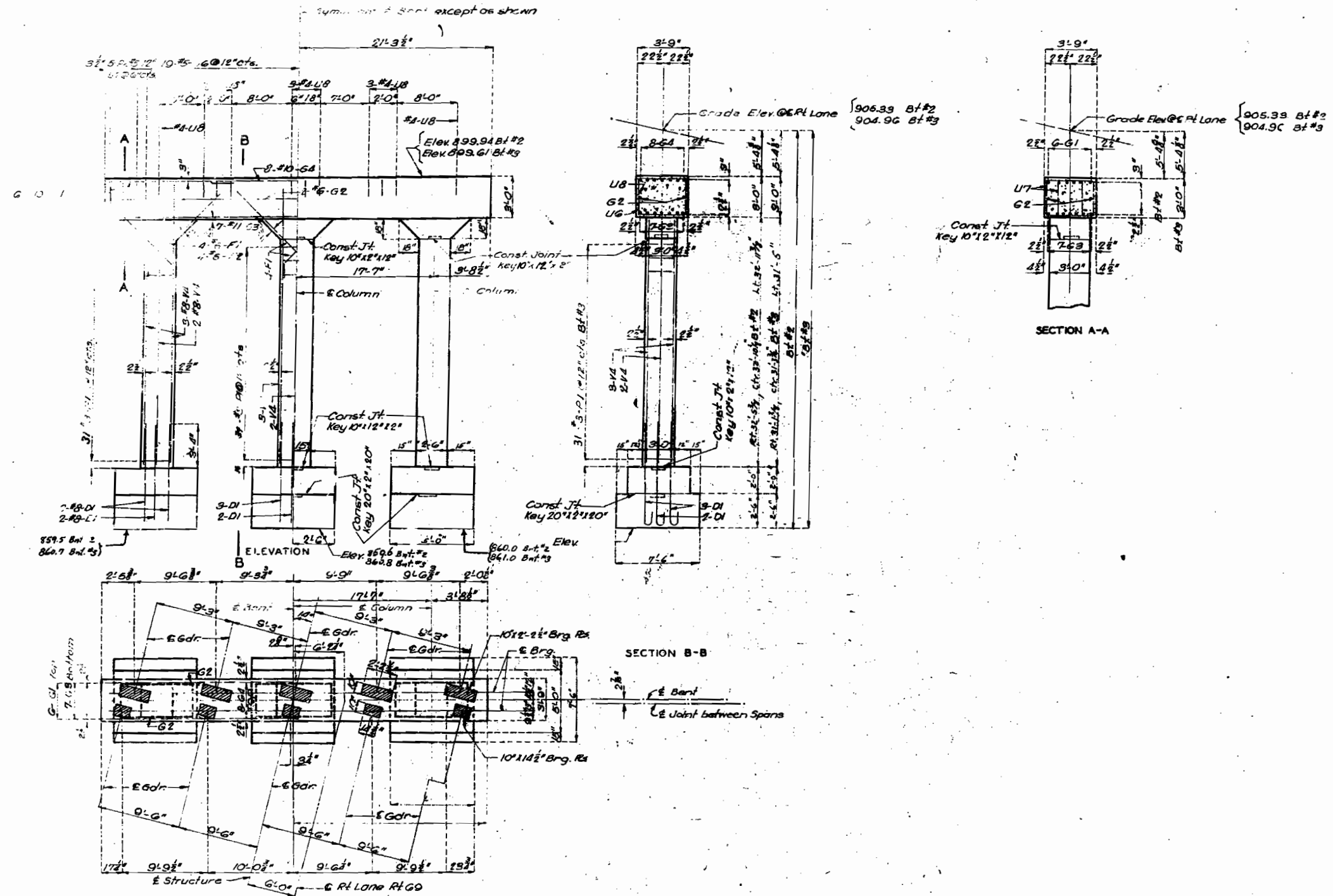
FINAL PLANS

STD. C-110-R3
 L-660

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SCALE	YEAR	SHEET NO.	TOTAL SHEETS
2	MO	UI-99(8)	1"	1954	17	17

FINAL PLANS
FINAL PLANS



BRIDGE OVER RUSSELL ROAD
STATE ROAD FROM ARMOUR ROAD IN NORTH KANSAS CITY N.E.
ABOUT 2 MILES NORTH OF NORTH KANSAS CITY
PROJECT NO. UI-99(8) (RT. 69) STA 294+24.15 (RIGHT LANE)
CLAY COUNTY

Revised April 1954 by M.E.L. EWG.S
May 1954 by J.E.L.

Note: This drawing is not to scale. Follow dimensions.

Sheet No 3A of 2.

L-660

FINAL PLANS

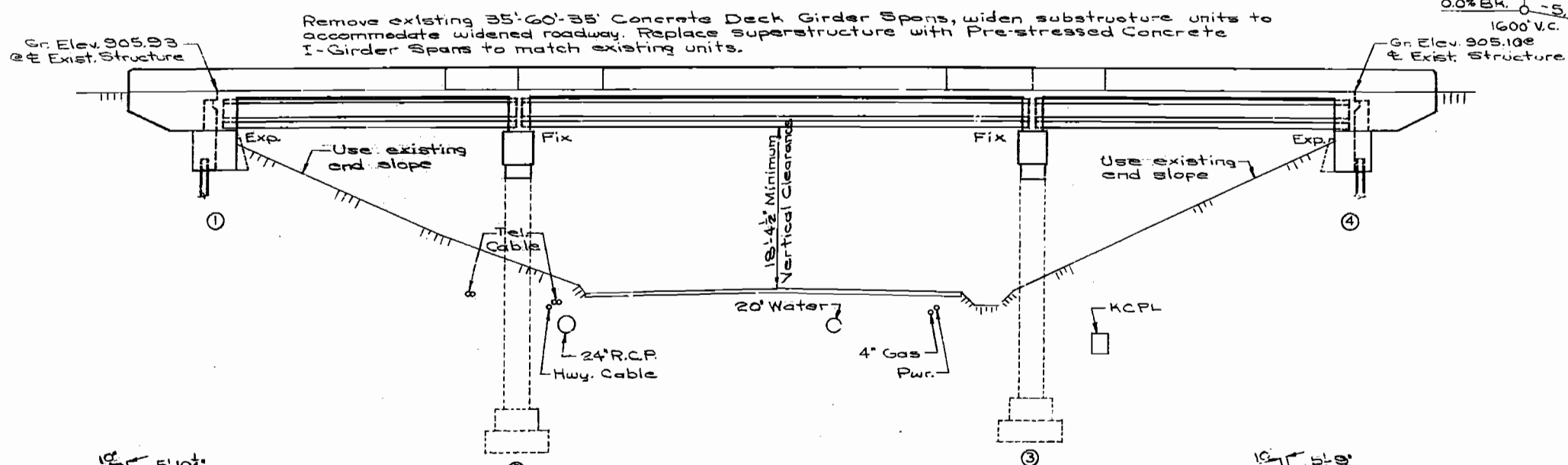
2 or 3 Col. Int. Square or Skewed. All Loadings

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

PI. Sta. 301+00
Elev. 902.25

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		83	44	

SEC. 1412 TWP. 50N RGE. 33W.



GENERAL NOTES:

Design Specifications:
A.A.S.H.T.O. 1977 Load Factor Design and Interim Specifications 1980

Design Loading:
HS20-44
15' per sq. ft. Future Wearing Surface
Modified 24,000# Tandem Axle
Earth 120#, Equivalent Fluid Pressure 30#
Superstructure: Simply supported non-composite for Dead Load, Continuous composite for live load.

Design Unit Stresses:
Class B Concrete (Substructure) $f_c = 3,000$ psi
Class B1 Concrete (Safety Barrier Curb) $f_c = 4,000$ psi
Class B2 Concrete (Superstructure except Prestressed Girders and Safety Barrier Curb) $f_c = 4,000$ psi
Reinforcing Steel (Grade 60) $f_y = 22,000$ psi
Steel Pile $f_b = 9,000$ psi

Note: For Pre-stressed Girder Stresses see Sheet Nos. 9 & 10.

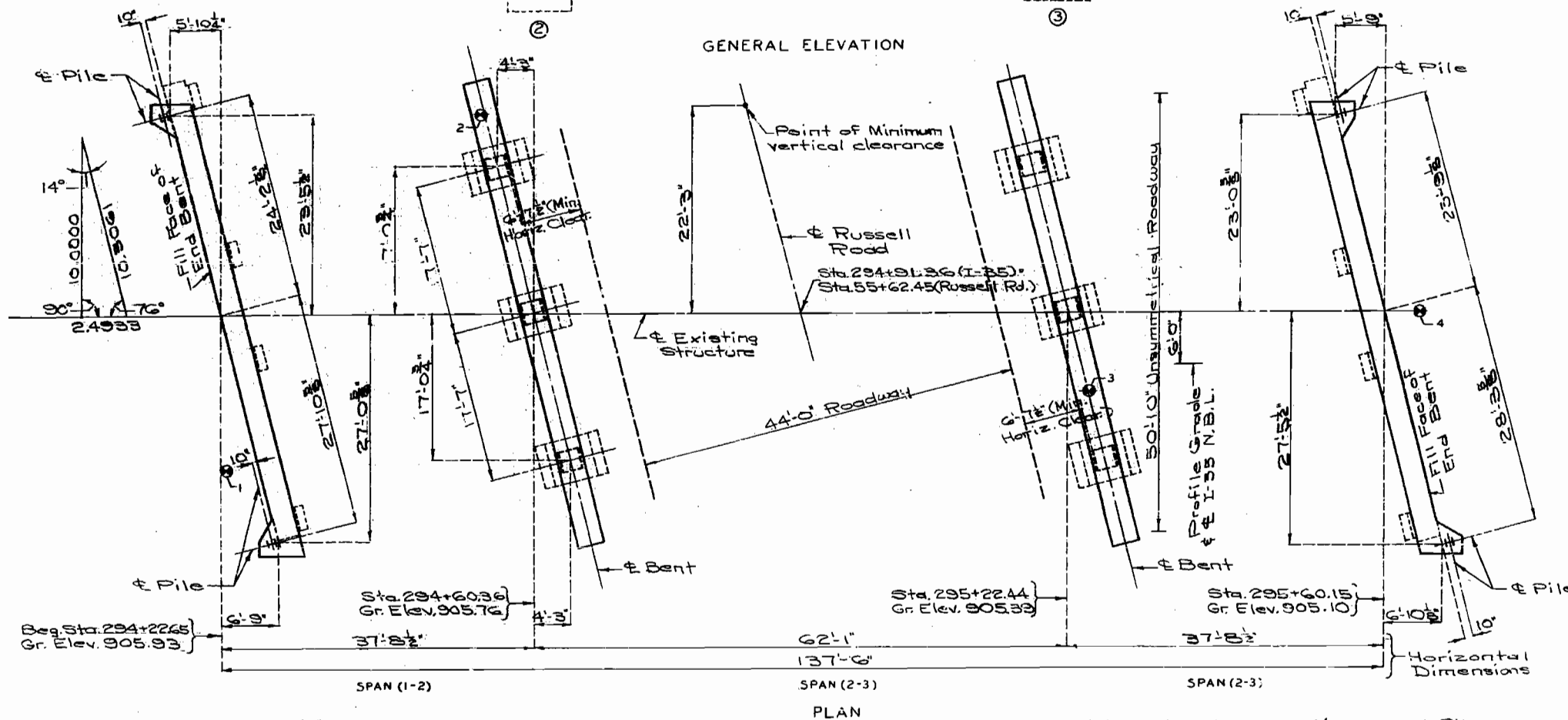
Neoprene Pads:
Bearings shall be 60 durometer Neoprene Pads.
Cost of furnishing, fabricating and installing Neoprene Bearing Pads complete in place, shall be paid for at the contract unit bid price for Plain and Laminated Neoprene Bearing Pads per each.

Joint Filler:
All joint filler shall meet the requirement of Std. Spec. 1057.2.4 except as noted.

Reinforcing Steel:
Minimum clearance to reinforcing steel shall be 1/2" unless otherwise shown.

Construction Clearance:
A minimum vertical clearance of 13'-6" from roadway to bottom of bridge structure. Lateral clearance of 33'-0" centered on existing lanes shall be maintained during construction.

Widen, Extension and Repair:
Outline of old work is indicated by light dashed lines. Heavy lines indicate new work. Bars bonded in old concrete not removed shall be cleanly stripped and embedded into new concrete where possible. If length is available, old bars shall extend into new concrete at least 40 diameters for smooth bars and 30 diameters for deformed bars.



Note: Ⓢ Indicates location of Borings. For Boring Data see sheet No. 2.

Note: Estimated Quantities and Pile Data see sheet No. 2.

BM Elev. 902.15 on top of Rt. wing Bent No. 4 Sta. 295+35.75

BRIDGE OVER RUSSELL ROAD

STATE ROAD FROM RTE. 210 NORTH

IN KANSAS CITY

PROJECT NO. I-IR-35-1(120) STA. 294+22.65

JOB NO. 4-I-35-340 RTE. I-35 N.B.L.

CLAY COUNTY

STD.
STD. 706.35
L-660R

DESIGNED DEC. 1981
DETAILED JAN. 1982
CHECKED FEB. 1982

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 1 of 16

DATE 1/13/83

326

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	MO.		68	25	

ESTIMATED QUANTITIES				
ITEM	UNIT	SUBSTR.	SUPERSTR.	TOTAL
Special Work	Lump Sum			1
Removal of Existing Bridge Deck	Sq. Ft.		6298	6298
Structural Steel Piles (10')	Lin. Ft.	144		144
Class B Concrete	Cu. Yd.	705		705
() Slab On Concrete I-Girder*	Sq. Yd.		817	817
Safety Barrier Curb	Lin. Ft.		315	315
Plain Neoprene Bearing Pads	Each		24	24
Laminated Neoprene Bearing Pads	Each		12	12
Prestressed Concrete I-Girder 35 Ft. Span	Each		12	12
Prestressed Concrete I-Girder 60 Ft. Span	Each		6	6
Reinforcing Steel	Lb.	9460		9460

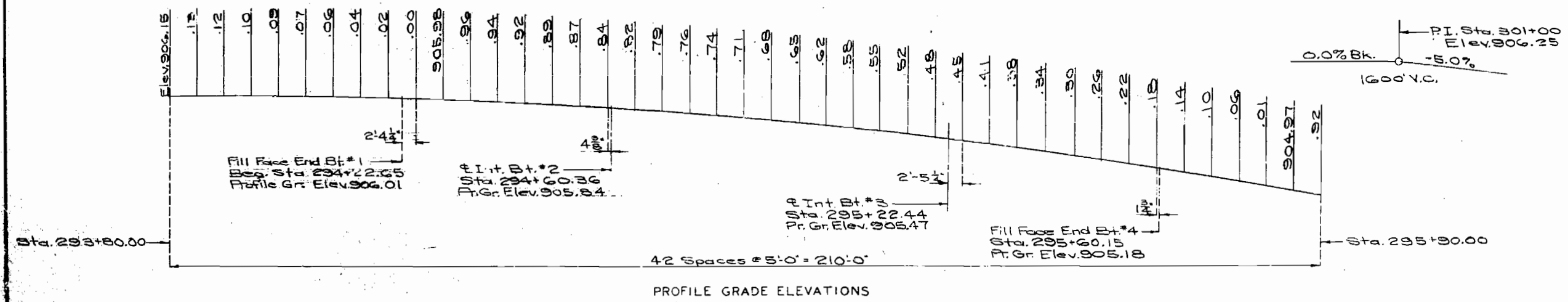
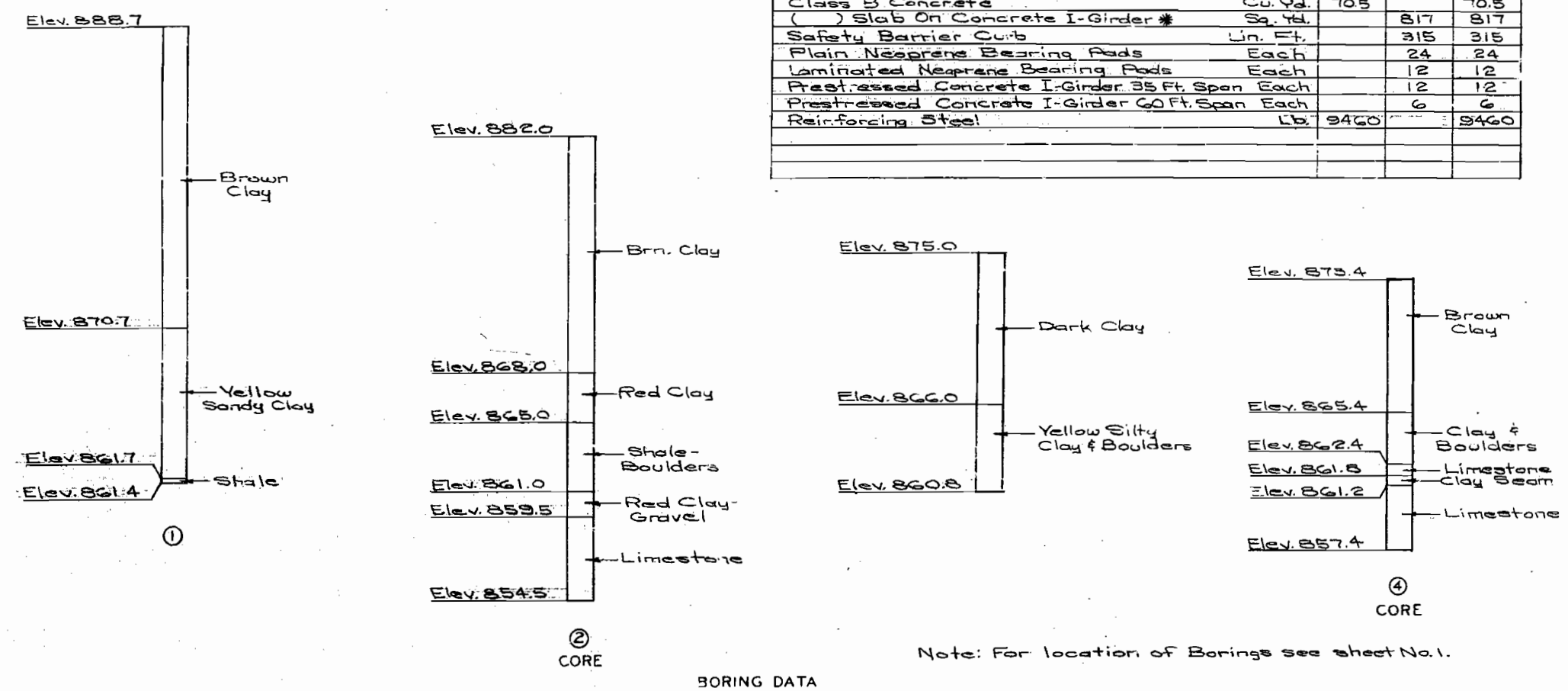
Note:
 All concrete and reinforcement above lower construction joint in end bents are included with superstructure quantities.
 Cost of $\frac{3}{8}$ " coil tie rods placed in diaphragms is included in contract unit price for P/S members.
 * See Special Provisions.

ESTIMATED QUANTITIES FOR ALTERNATE SLABS			
TYPE OF SLAB	SLAB ON CONC. I-GDR.		
	REINF. (L.S.)	CONC.	EPOXY PLAIN CU. YD.
Cast-In-Place Conventional Forms	40250	27230	277.8
Precast Panel Forms	37150	5860	228.4
Stay-In-Place Forms	** 40250	27230	277.8

The table of Estimated Quantities for Alternate Slabs represents the quantities used by the state in preparing the cost estimate for concrete slabs. Variations may be encountered in these estimated quantities but these variations cannot be used for an adjustment in the Contract Unit Price per square yard of Alternate Slab used. See Special Provisions for alternate methods of forming slabs.
 Precast panel quantities based on skewed end panels.
 ** Does not include concrete required to fill corrugation of S.I.P. forms.

PILE DATA				
BENT NO.	1	2	3	4
Pile Type and Size	HP10x42			HP10x42
Number	2			2
Approximate Length Ft.	37			35
Design Bearing Tons	26.3			26.3
Hammer Energy Required Ft.Lb.	7000			7000

Minimum energy requirements of hammer based on length and design bearing value of piles. All piles shall be driven to practical refusal.

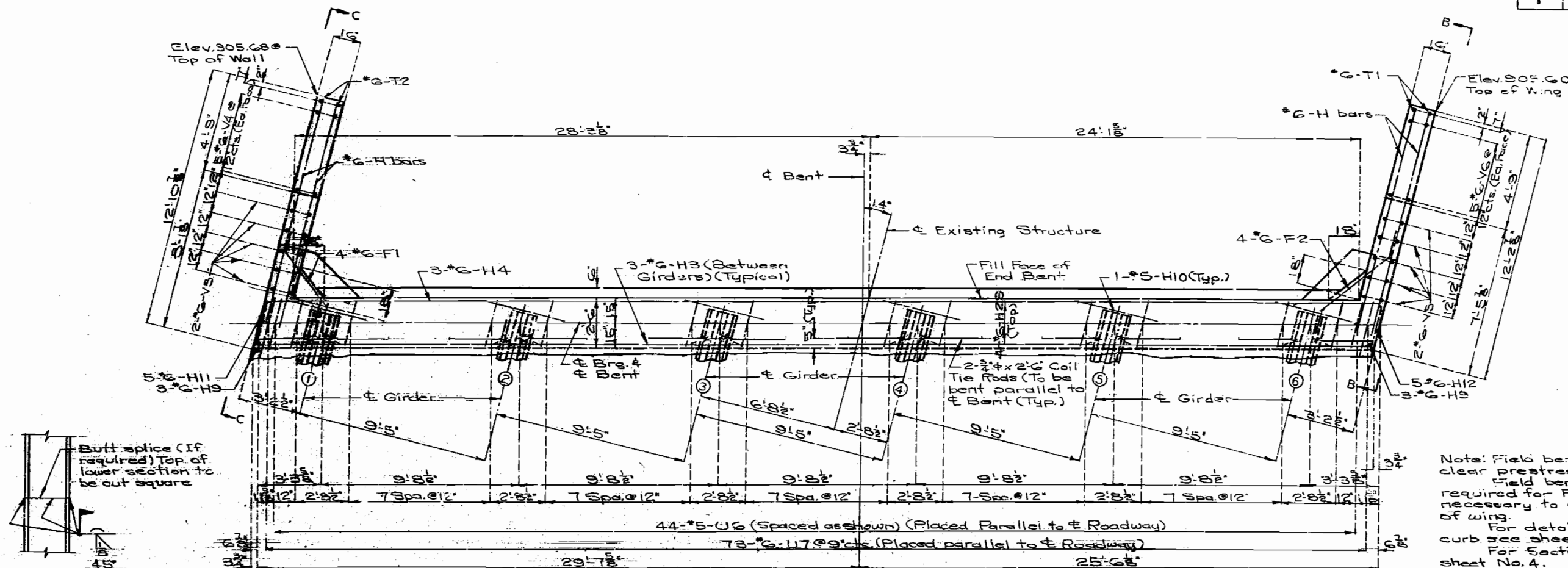


DETAILED NOV. 1981
 CHECKED FEB. 1982

Note: This drawing is not to scale. Follow dimensions.

SEE PLAN SHEETS
 Sheet No. 2 of 16

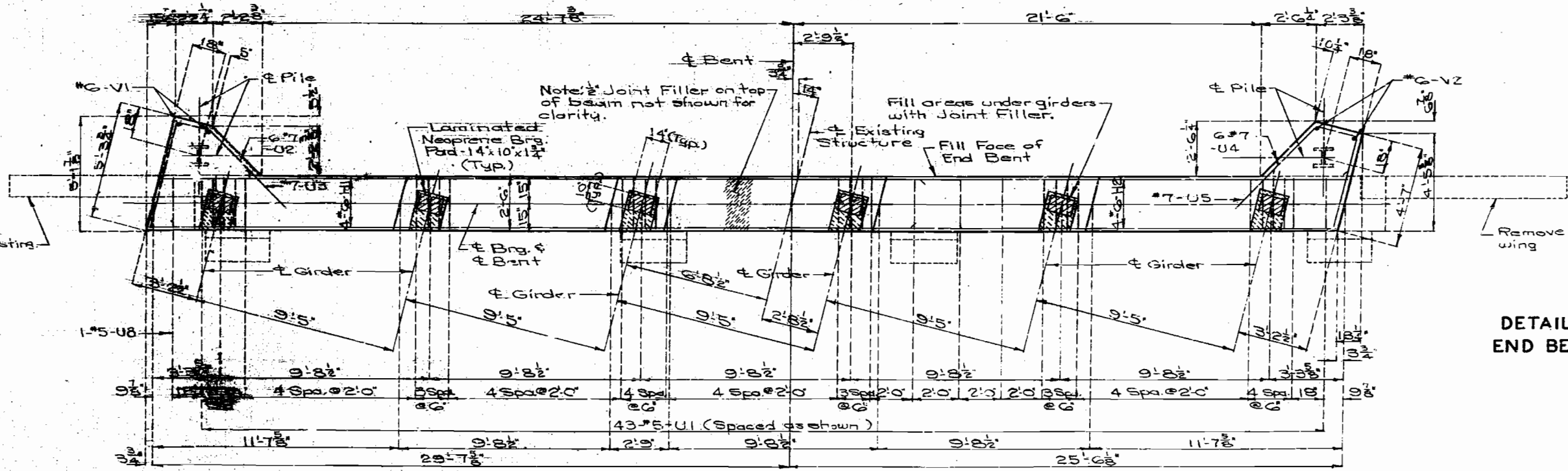
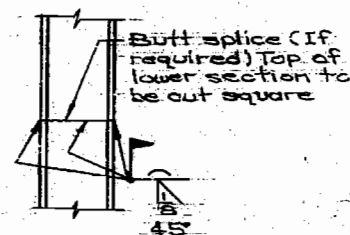
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		69	46	



PART PLAN

Note: Field bent F1 & F2 bars to clear prestressed beam flange. Field bending shall be required for F1 & F2 bars when necessary to conform to slope of wing.
 For details of safety barrier curb see sheet No. 14.
 For Section B-B & C-C see sheet No. 4.
 For details of laminated neoprene bearing pads see sheet No. 4.

DETAIL OF STEEL PILE SPLICE



PLAN OF BEAM (BELOW LOWER CONST. JT.)

DETAILS OF END BENT NO. 1

DESIGNED DEC. 1961
 CHECKED FEB. 1962

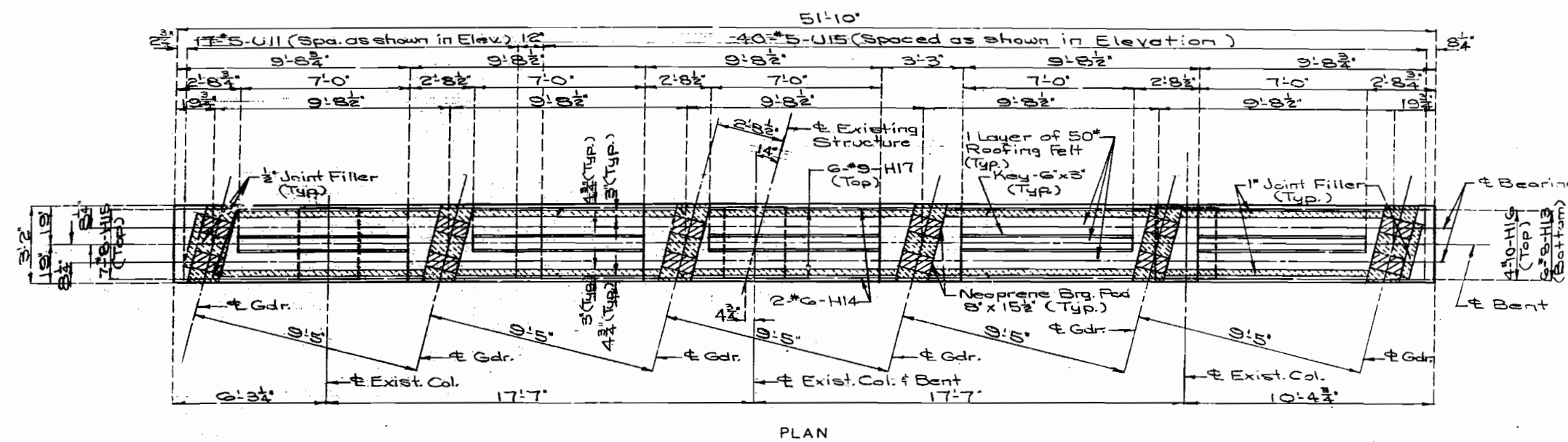
Note: This drawing is not to scale. Follow dimensions.

Sheet No. 3 of 4

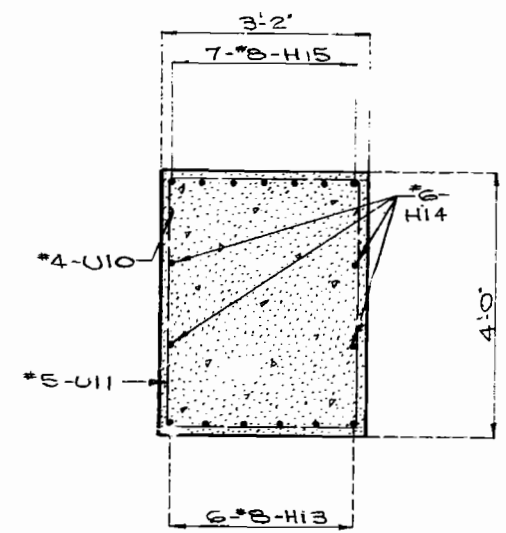
CLAY COUNTY

L-660R

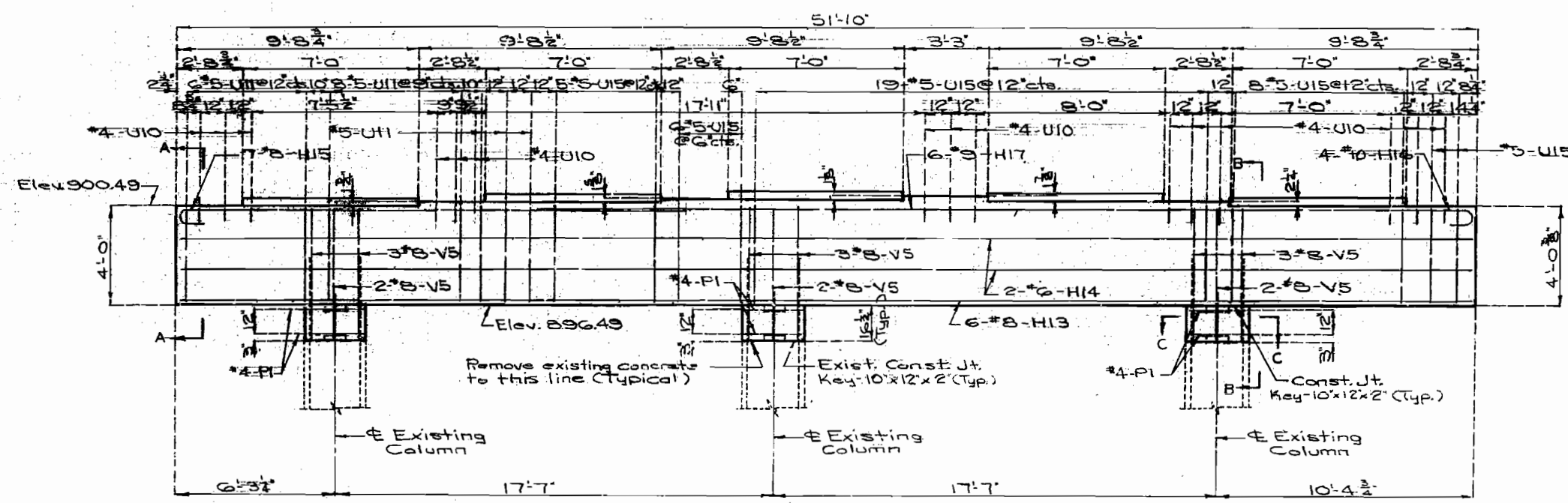
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	MO.			19	



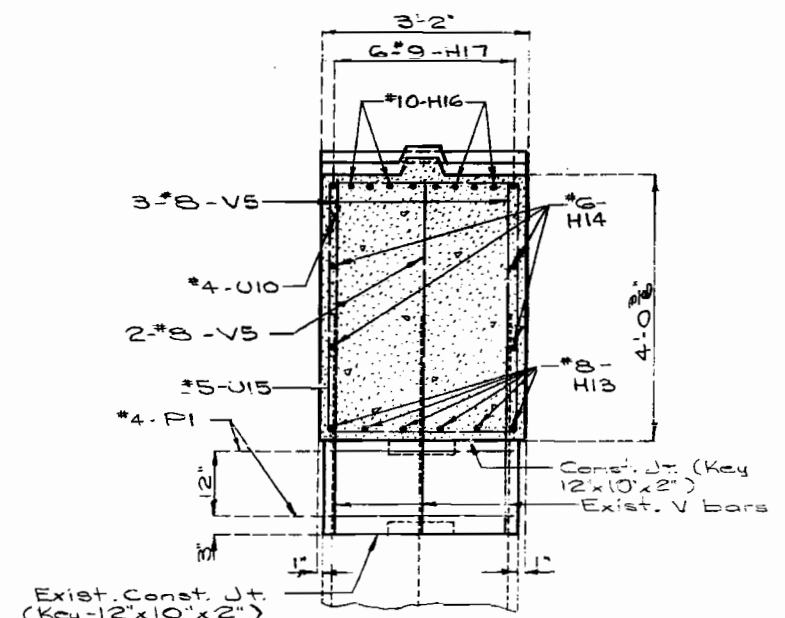
PLAN



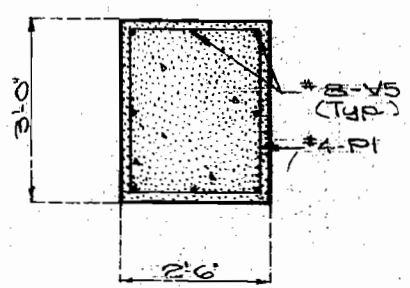
SECTION A-A



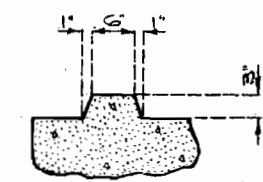
ELEVATION



SECTION B-B



SECTION C-C



SECTION THRU KEY

DETAILS OF INT. BENT NO. 3

Note: This drawing is not to scale. Follow dimensions.

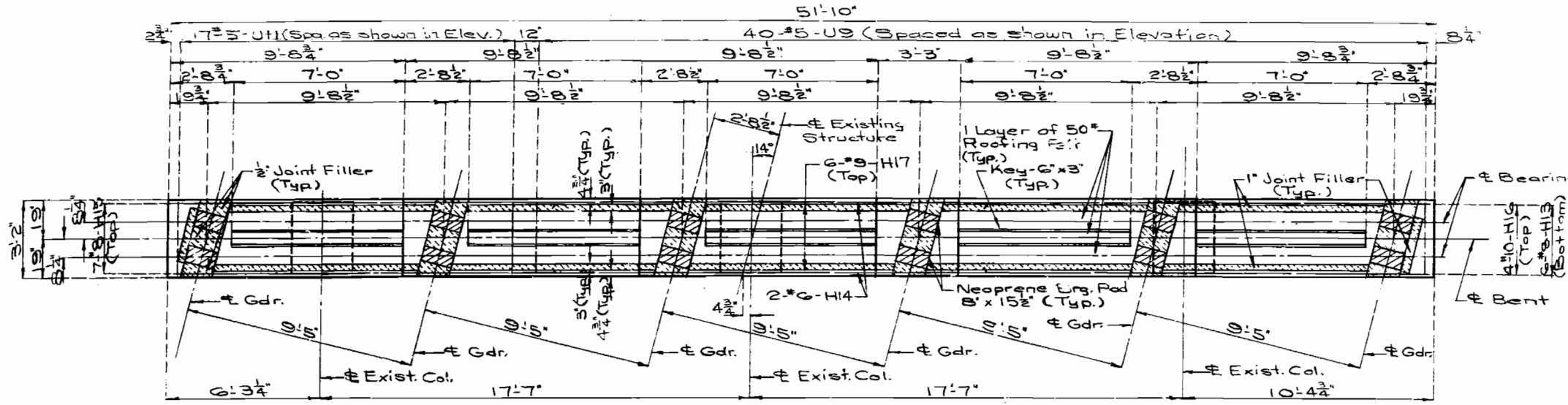
DETAILED DEC. 1981
CHECKED FEB. 1982

Sheet No. 6 of 16.

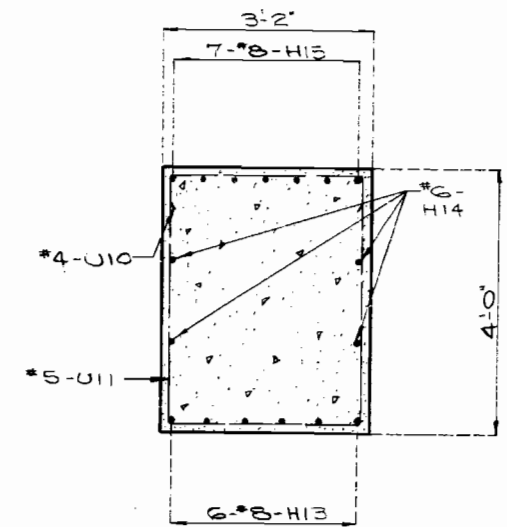
CLAY COUNTY

L-660R

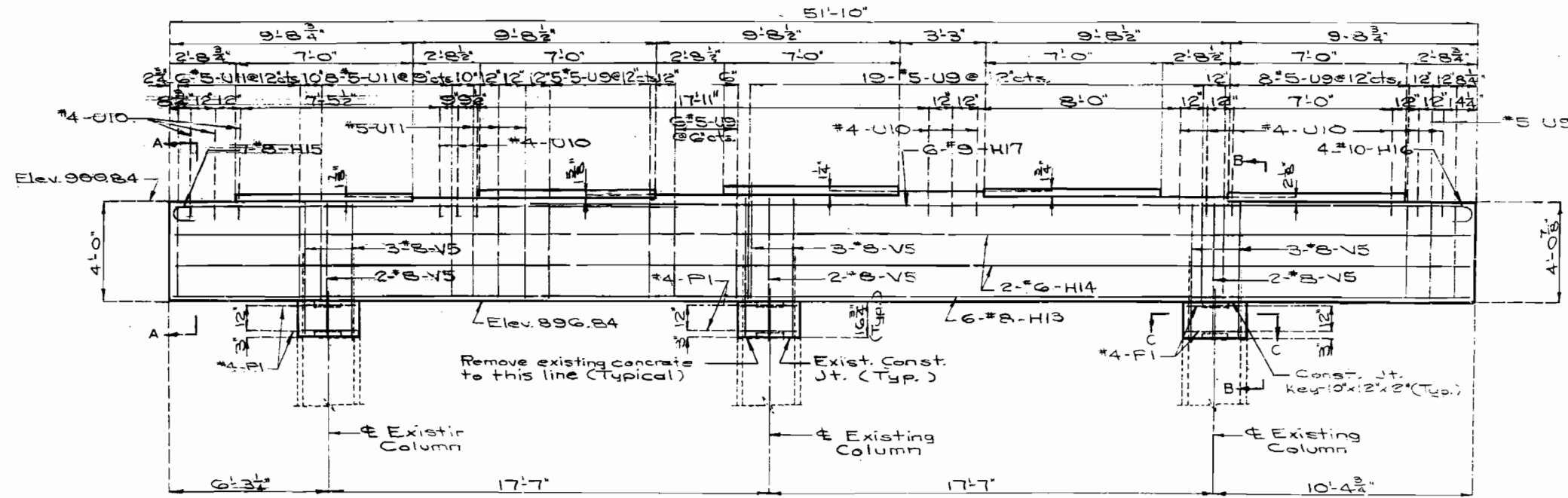
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		59	23	



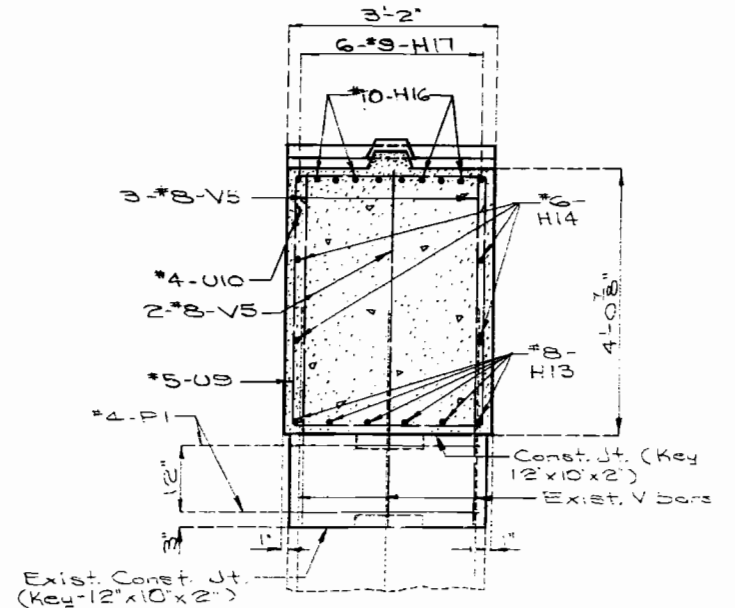
PLAN



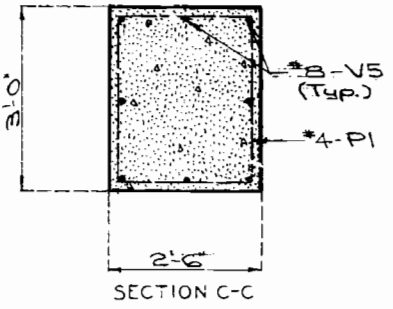
SECTION A-A



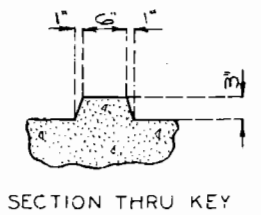
ELEVATION



SECTION B-B



SECTION C-C



SECTION THRU KEY

DETAILS OF INT. BENT NO. 2

Note: This drawing is not to scale. Follow dimensions.

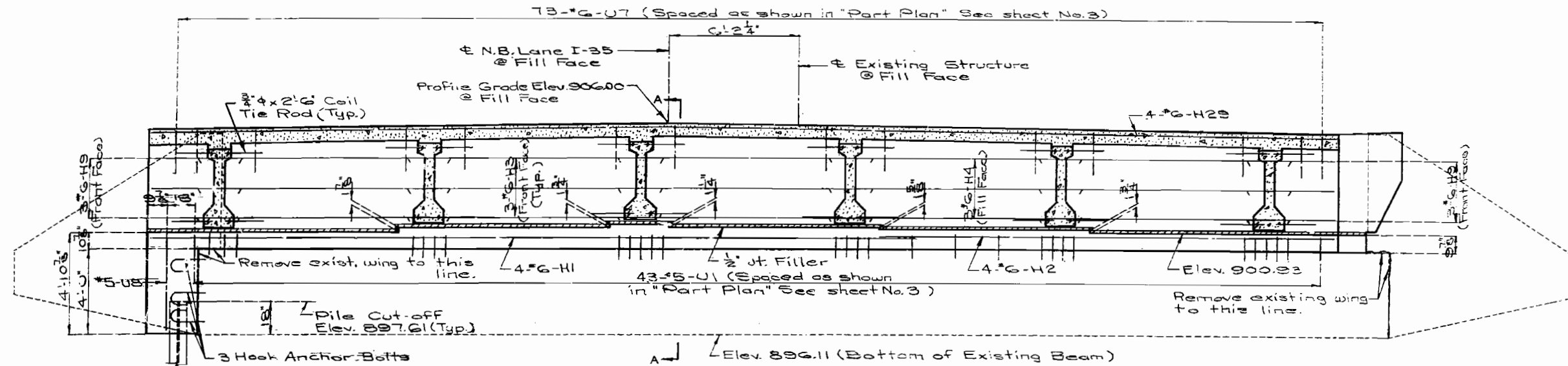
DETAILED DEC. 1981
CHECKED FEB. 1982

Sheet No. 5 of 11

CLAY COUNTY

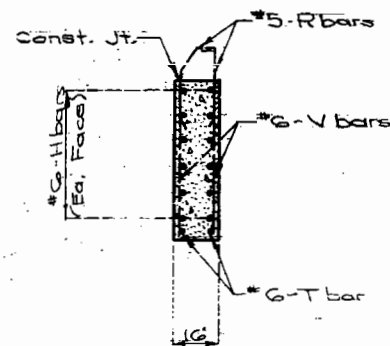
L-660R

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		88	47	

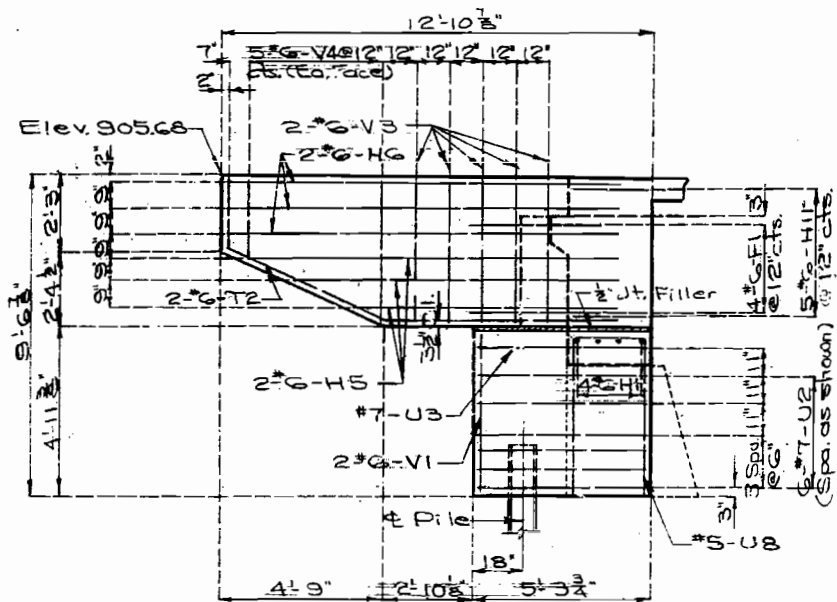


ELEVATION

Note: All concrete in the end bent above top of beam and below top of slab shall be Class B2.

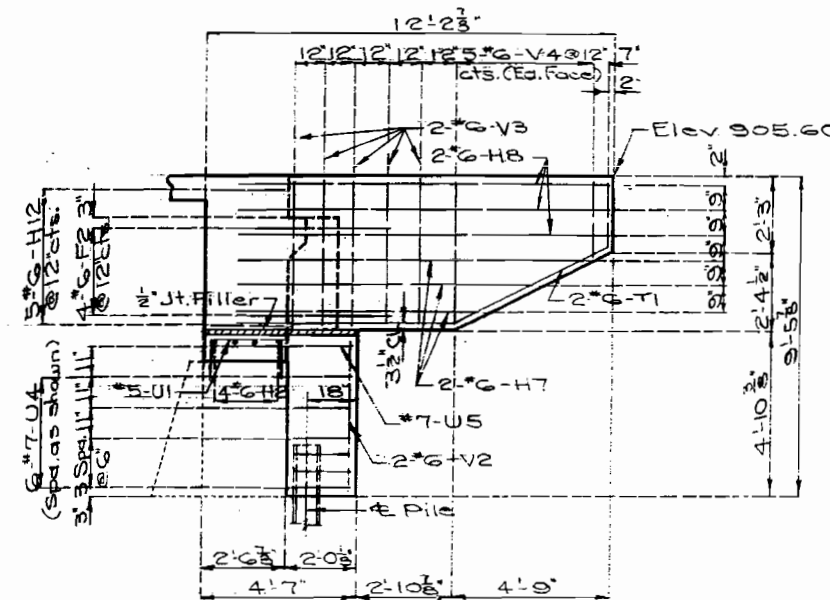


TYPICAL PART SECTION THRU WING



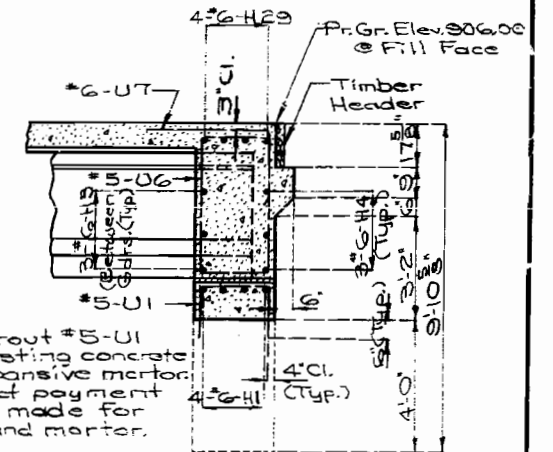
ELEVATION C-C

Note: For location of Elevation B-B & C-C see sheet No. 3.



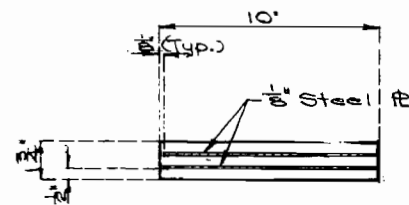
ELEVATION B-B

Note: Anchors shall be of the self drilling expansion type, made of case-hardened and drawn carburized steel, with self-cutting annular broaching grooves.
Cost of furnishing and installing hook anchor bolt assemblies shall be included in contract unit price for concrete.



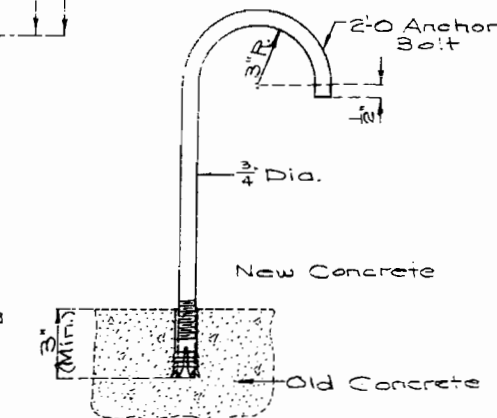
SECTION A-A

Note: Grout #5-U1 into existing concrete with expansive mortar. No direct payment will be made for drilling and mortar.



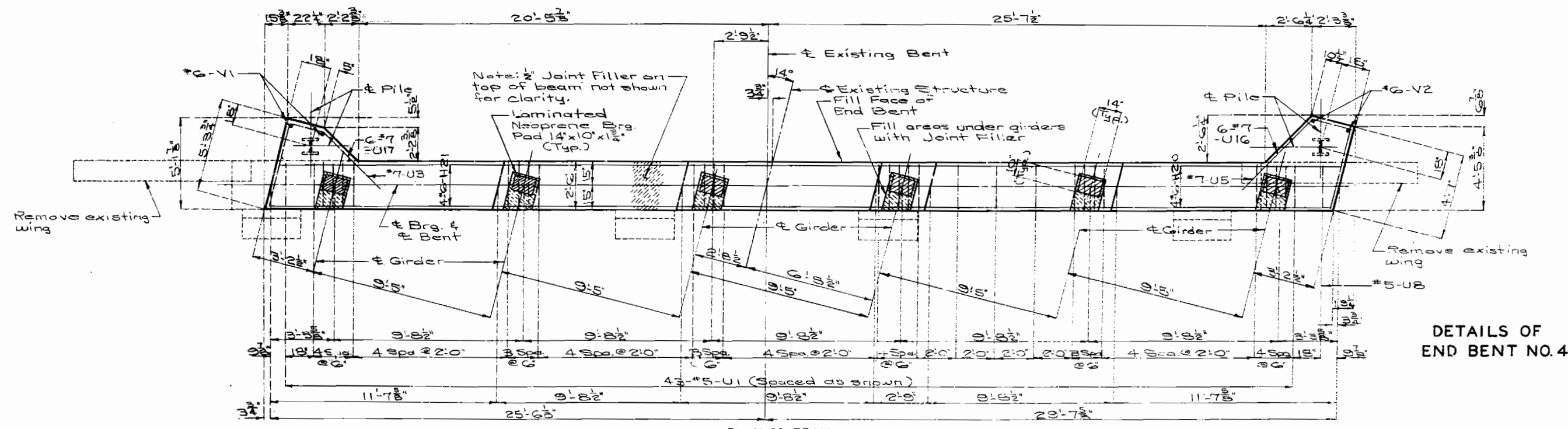
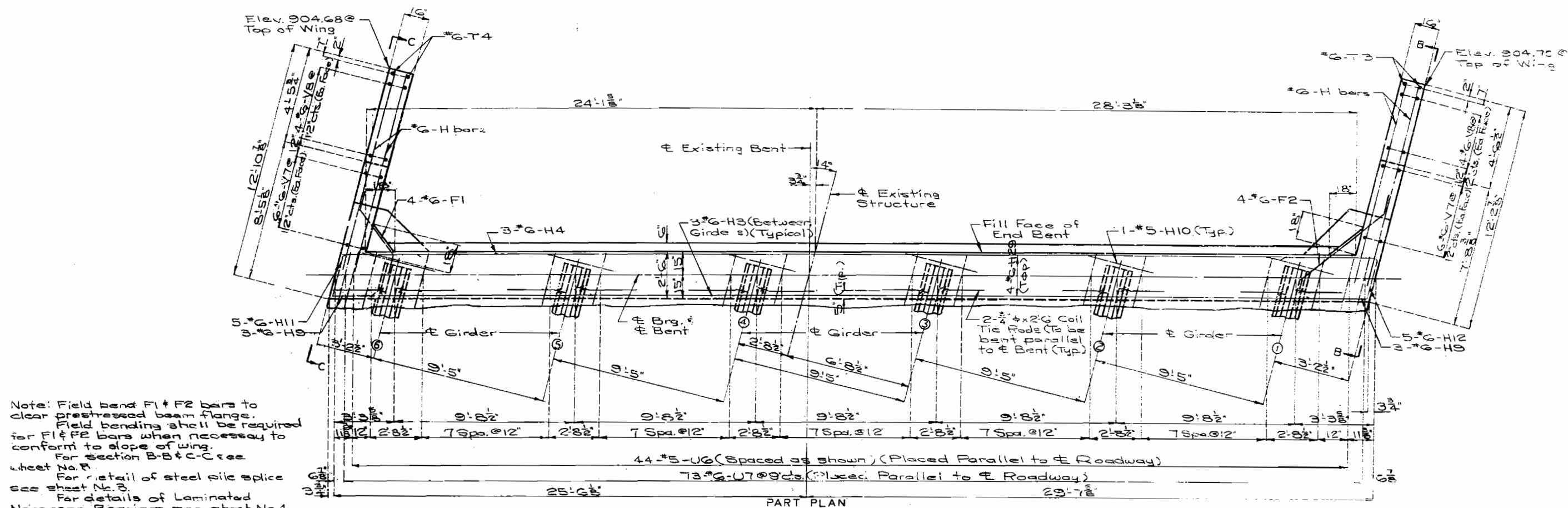
DETAILS OF LAMINATED NEOPRENE BEARING-END BENTS NO. 1 & 4

DETAILS OF END BENT NO. 1 (CONT.)



HOOK ANCHOR BOLT DETAILS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO			50	



DETAILS OF END BENT NO. 4

DETAILED JAN. 1942
 CHECKED FEB. 1942.

Note: This drawing is not to scale. Follow dimensions.

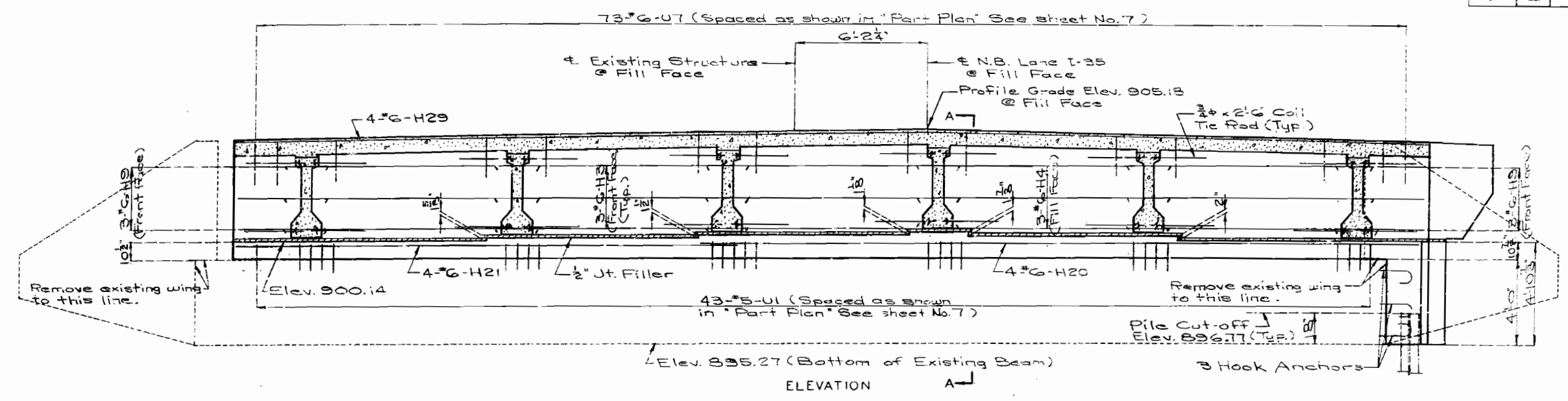
Sheet No. 7 of 10.

CLAY COUNTY

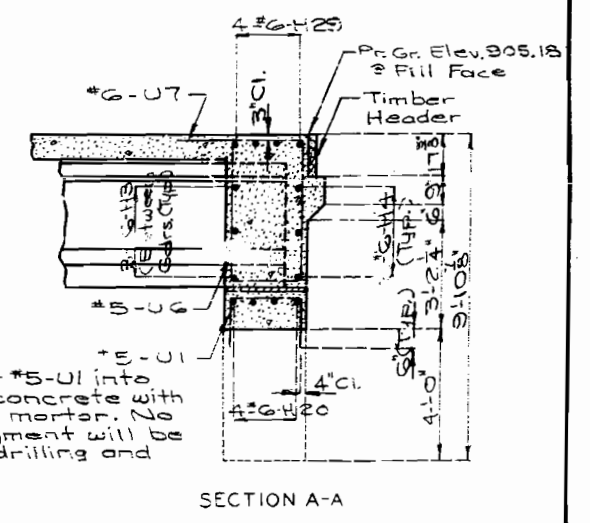
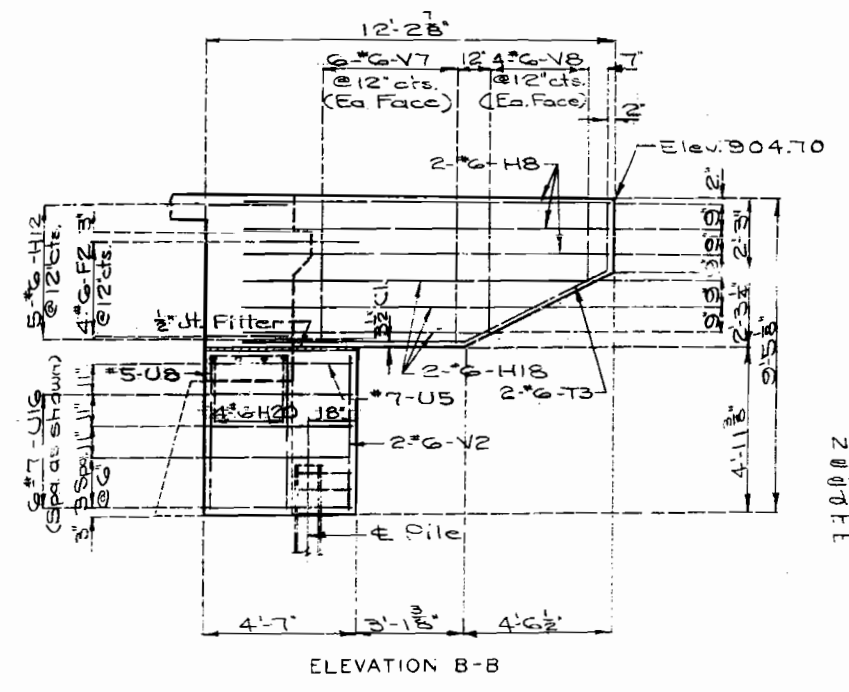
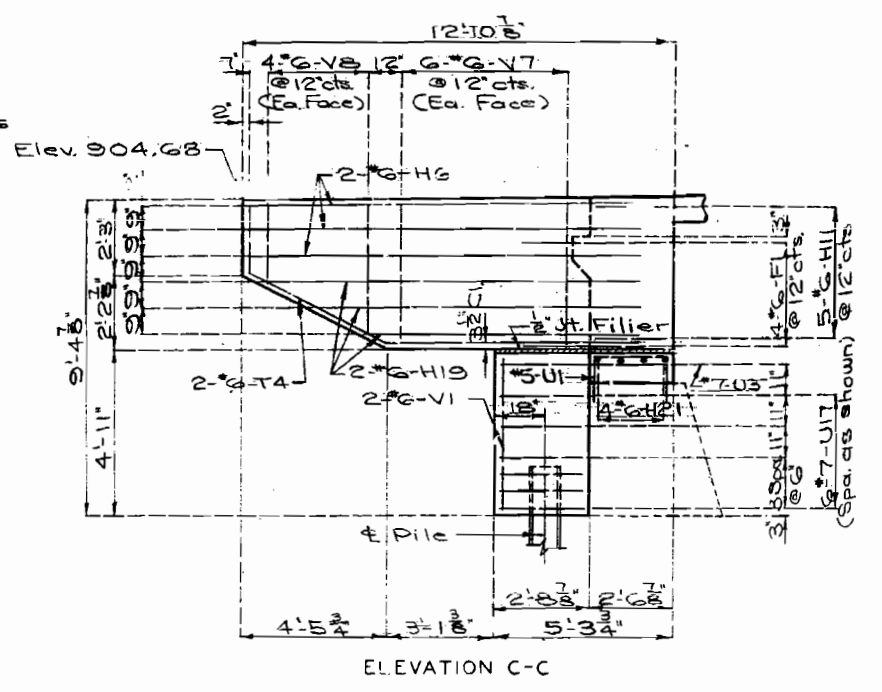
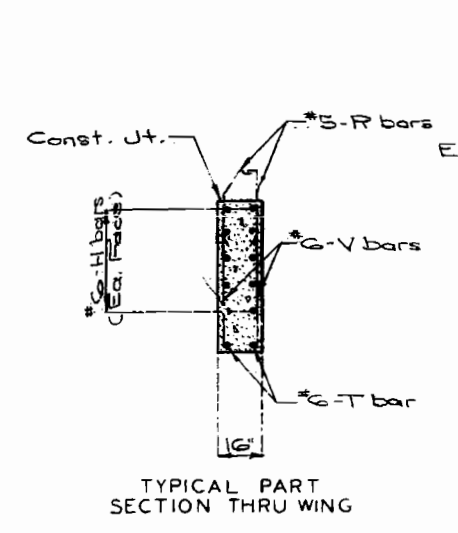
L-860R

7226

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		79	51	



Note: All concrete in the end bent above top of beam and below top of slab shall be Class B2.



Note: Grout #5-U1 into existing concrete with expansive mortar. No direct payment will be made for drilling and mortar.

DETAILS OF END BENT NO. 4 (CONT.)

Note: For hook anchor bolt details see sheet No. 4.
 For details of safety barrier curb see sheet No. 14.
 For location of Elevation B-B C-C see sheet No. 7.

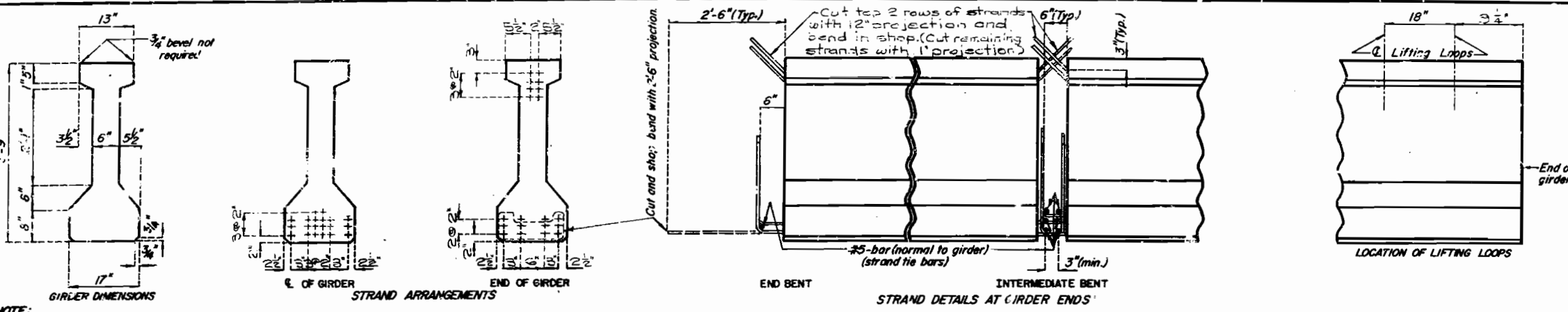
333

DETAILED JAN. 1982
 CHECKED FEB. 1982

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 5 of 16

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		18	52	



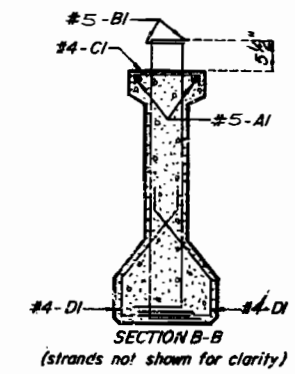
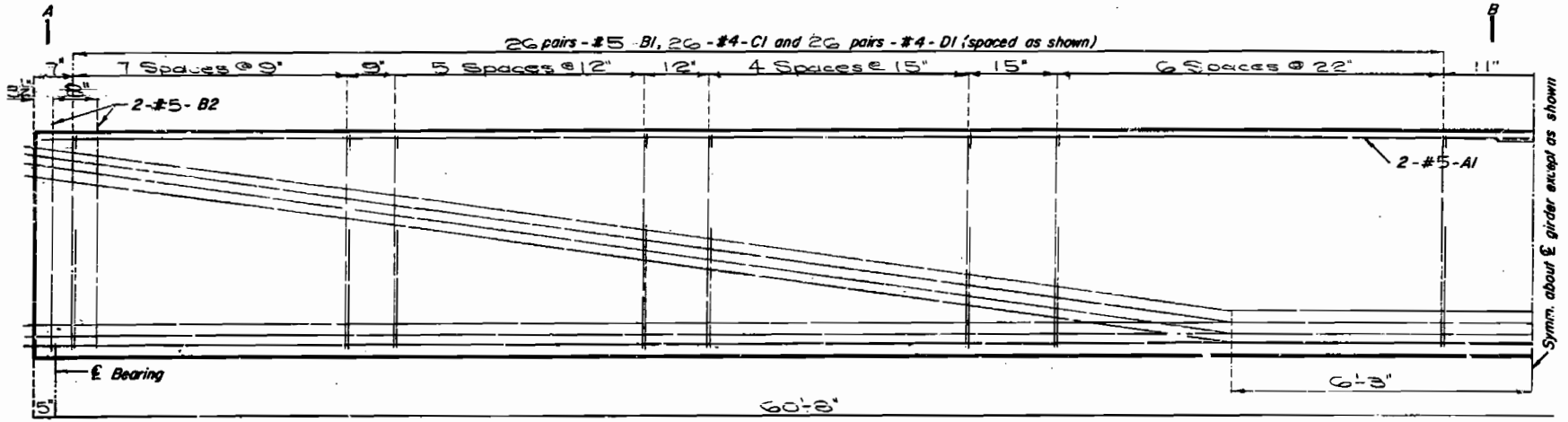
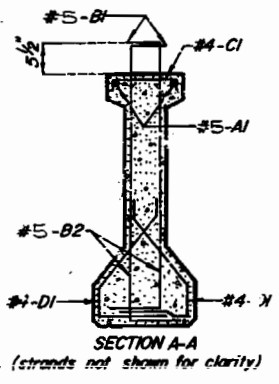
BILL OF REINFORCING STEEL - EACH GIRDER

NO.	SIZE & MARK	ACTUAL LENGTH	SHAPE
4	5 A1	31'-7"	20
104	5 B1	5'-3"	11
8	5 B2	4'-3"	19
52	4 C1	13"	10
134	4 D1	3'-0"	9

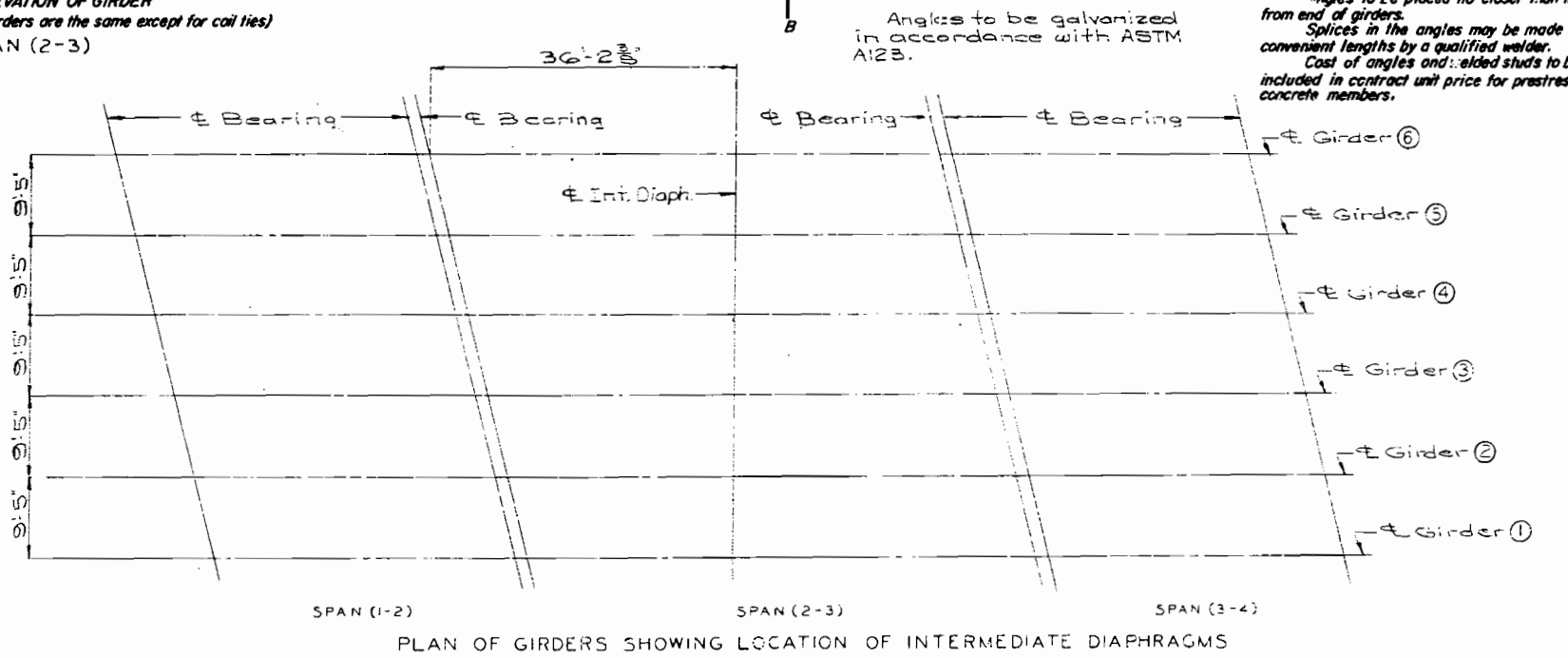
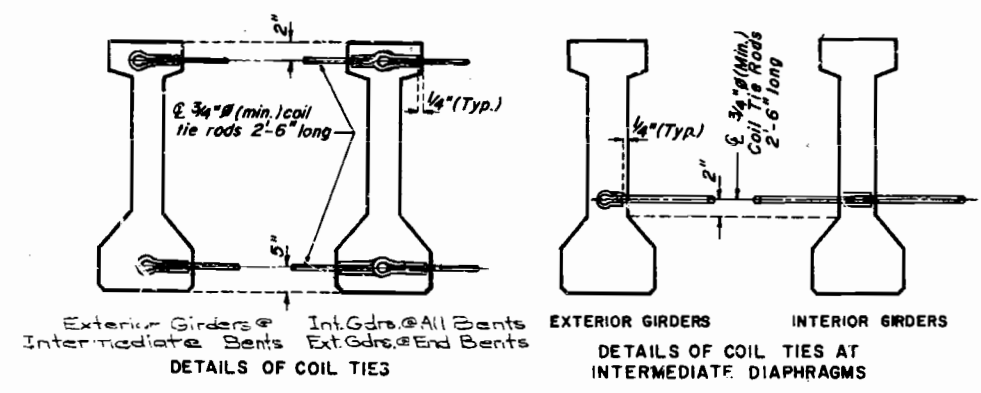
BENDING DIAGRAMS
 Shows shapes 9, 10, 11, 12, 19, and 20 with dimensions like 9 1/2", 13", 11", 4'-1 1/2", and 3 1/2".

NOTE:
 Concrete for prestressed girders shall be Class A1 with $f'_c = 5,000$ psi.
 (+) indicates prestressed strand.
 Use 20 strands with an initial prestress force of 575 kips.
 Cost of 3/4" coil tie rods placed in diaphragms is included in contract unit price for prestress concrete members.
 Coil ties shall be held in place in the forms by slotted wire-setting studs projecting thru forms. Studs are to be left in place or replaced with temporary plug until girders are erected and then replaced by coil tie rods.

NOTE:
 All dimensions are out to out.
 Where deflecting strands interfere with placement, come in-place bending may be necessary.
 Hooks and bends shall be in accordance with the CRSI Manual of Standard Practice for Detailing Reinforced Concrete Structures stirrups and tie dimensions.
 Actual lengths are measured along centerline bar to the nearest inch. Minimum clearance to reinforcing shall be 1".
 All reinforcement shall be Grade 60.



Note: Angles and welded studs to be cast-in-place on girders when alternate stay-in-place forms for slabs are used.
 Angles to be placed no closer than 12" from end of girders.
 Splices in the angles may be made at convenient lengths by a qualified welder.
 Cost of angles and welded studs to be included in contract unit price for prestress concrete members.



Revised April 1973
 SPS 55.4.6 MAY 1981

DETAILED JAN. 1982
 CHECKED FEB. 1982

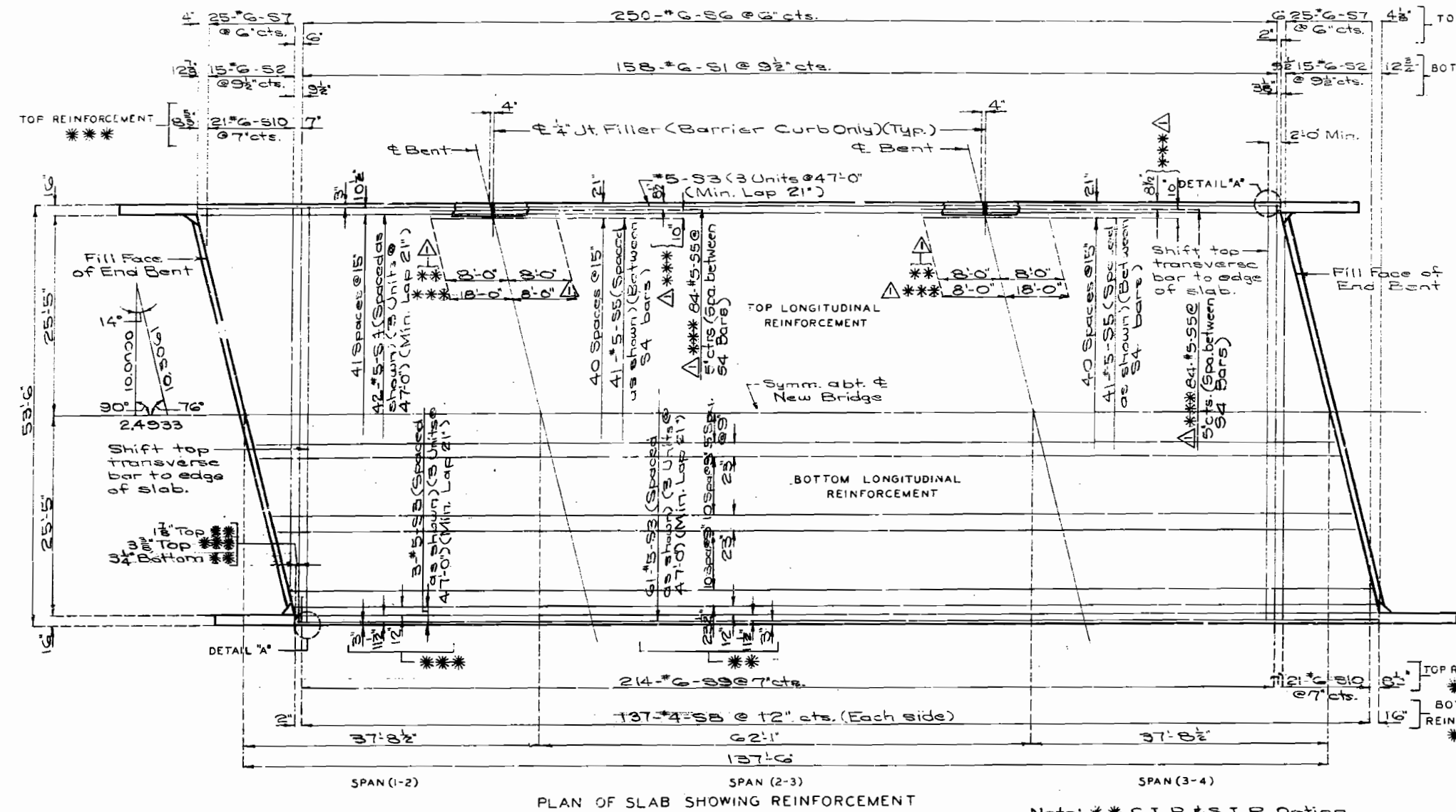
Note: This drawing is not to scale. Follow dimensions.

Sheet No. 9 of 16.

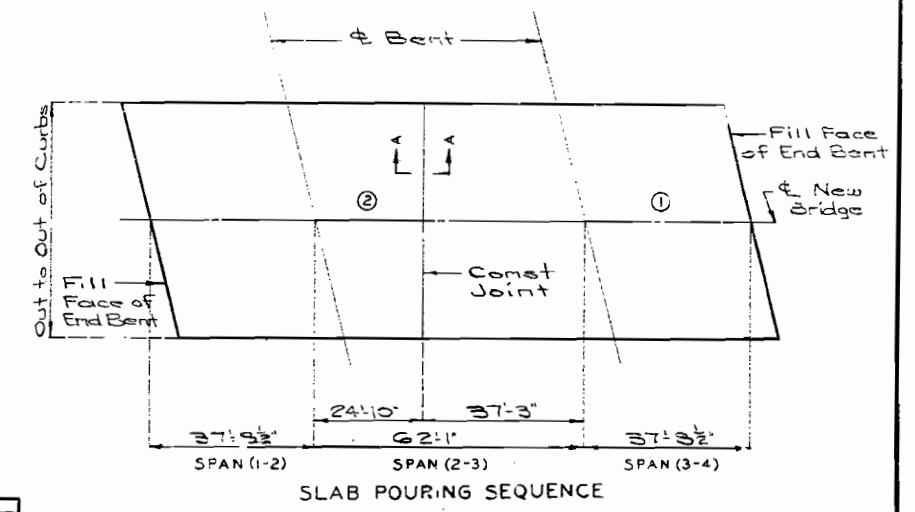
CLAY COUNTY

L-660R

FYD. PROJ. DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		55	55	



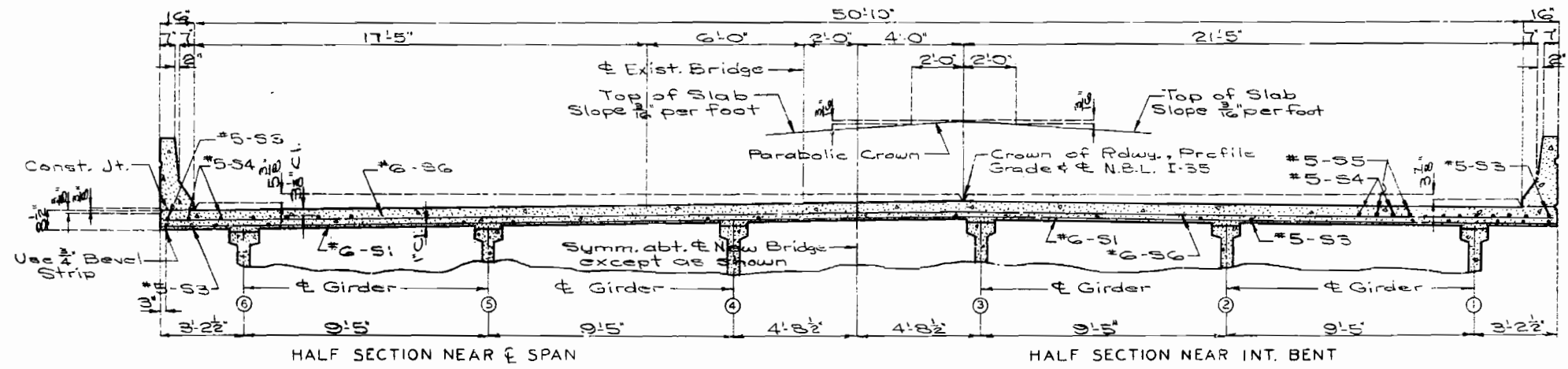
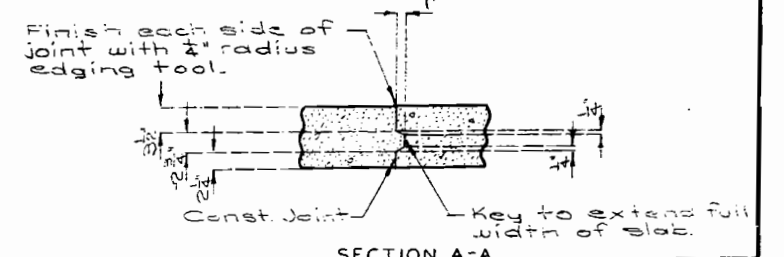
Note: Longitudinal dimensions shown are taken parallel to grade along the new bridge at top of slab.
 For Detail 'A' see sheet No. 11.
 For Girder Camber and Slab Haunching Diagrams see sheet No. 11.
 For Details of Prestressed Panel Option see sheet No. 13.
 For Details of Safety Barrier Curb not shown see sheet No. 14.



BASIC SEQUENCE	SEQUENCE OF POURS DIRECTION		*
	1	2	
	END TO 2	1 TO END	28
ALTERNATE "A" POURS	1+2	END TO END	28

* Min. Rate of Pour (Cu. Yds. / Hr.)

Note: The contractor shall furnish an approved retarder to retard the set of the concrete to 25 hours and shall pour and satisfactorily finish the slab pours at the rate given.
 The diaphragm at the intermediate bents and end bents shall be poured a minimum of 30 minutes and a maximum of 2 hours before the slab is poured.
 Intermediate diaphragms within spans may be poured with the construction joint between the diaphragms and slab or monolithic with slab.



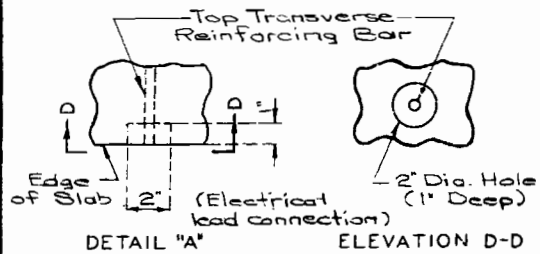
DETAILED JAN. 1982
 CHECKED FEB. 1982

Note: This drawing is not to scale. Follow dimensions.

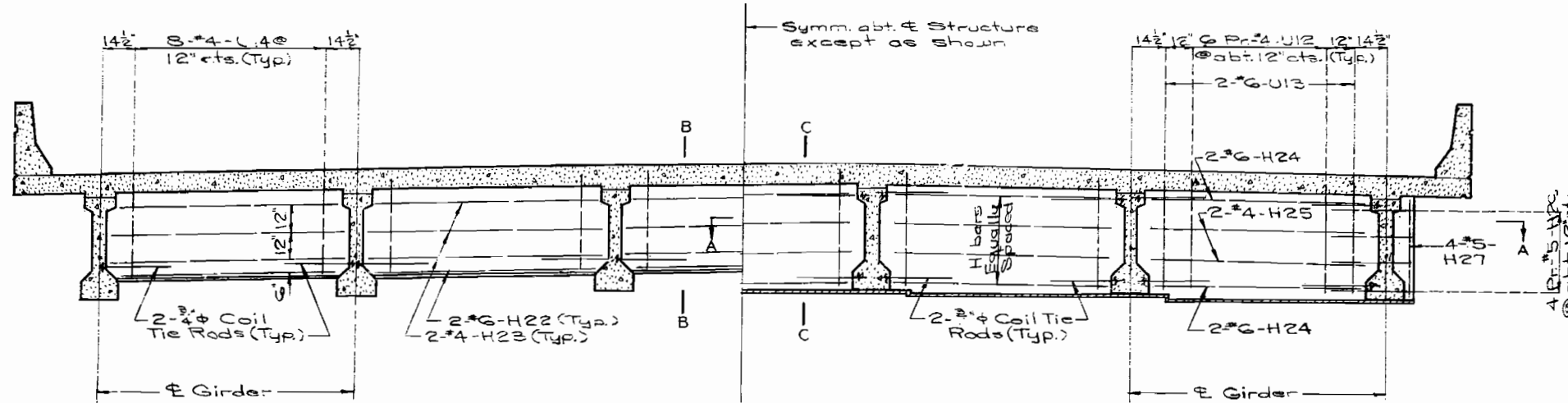
Sheet No. 12 of 16. Revised 3/25/83

CLAY COUNTY L-660R

Note: For location of Detail "A" see sheet No. 12.



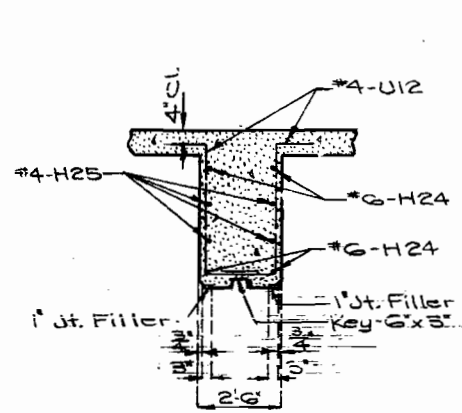
Note: 2 Electrical Lead Connections required. Actual location to be designated by the engineer as part of the test system.



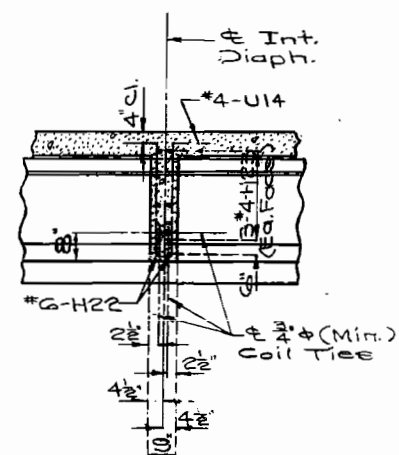
HALF SECTION NEAR INT. DIAPH.

HALF SECTION NEAR INT. BENTS

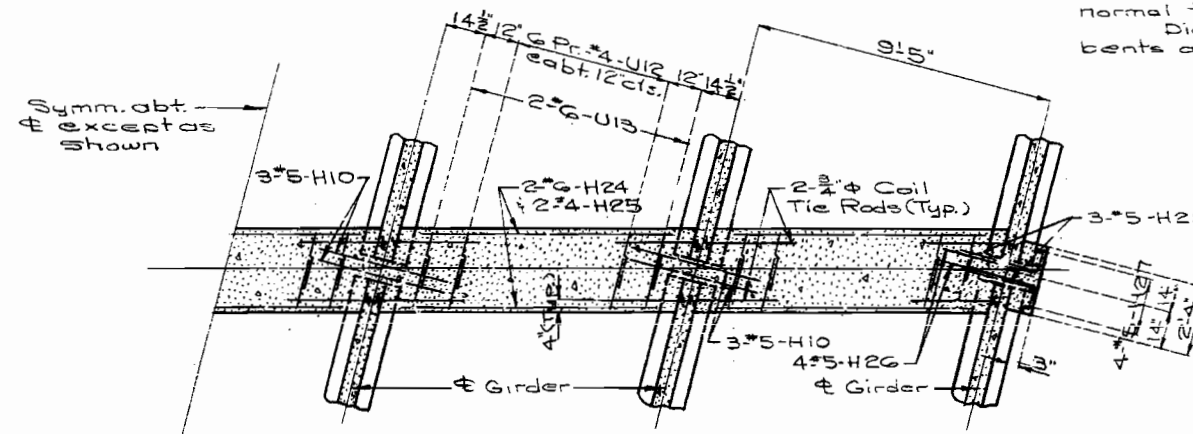
Note: For details of Coil Ties see sheet No. 9.
Intermediate diaphragms are normal to grade.
Diaphragms at intermediate bents are vertical.



SECTION C-C



SECTION B-B

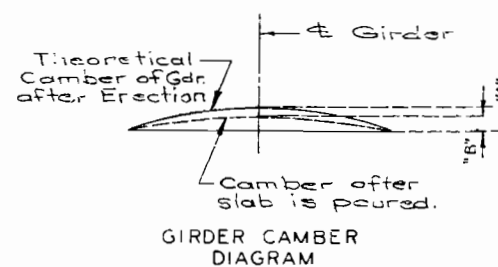


HALF SECTION A-A



THEORETICAL SLAB HAUNCHING DIAGRAM

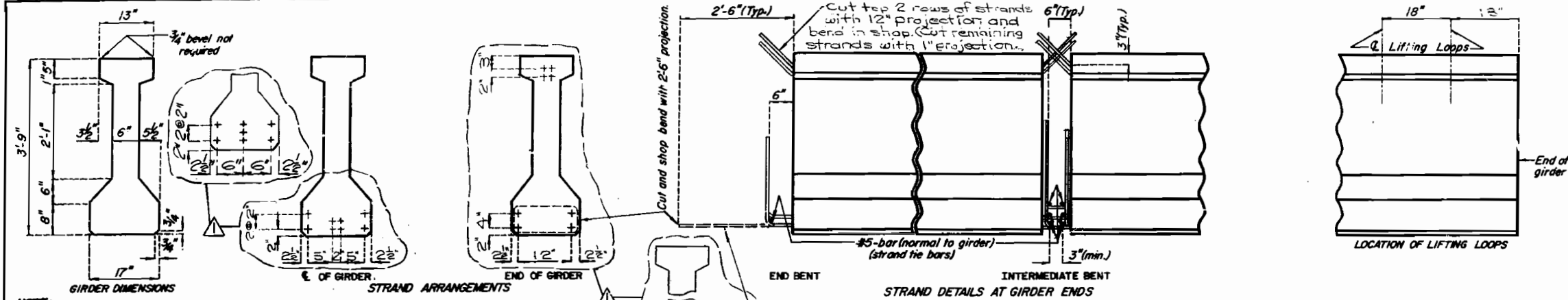
GDR. NO.	SPAN 1-2		SPAN 2-3		SPAN 3-4	
	"A"	"B"	"A"	"B"	"A"	"B"
(1 & 6)	4'	8'	12'	6'	4'	8'
(2 & 5)	4'	8'	12'	6'	4'	8'
(3 & 4)	4'	8'	12'	6'	4'	8'



Note: Theoretical camber of .25 & .75 points equal .7125 of camber at half span.

Note: The slab is to be built parallel to grade and to a minimum thickness of 8 1/2".

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		83	53	



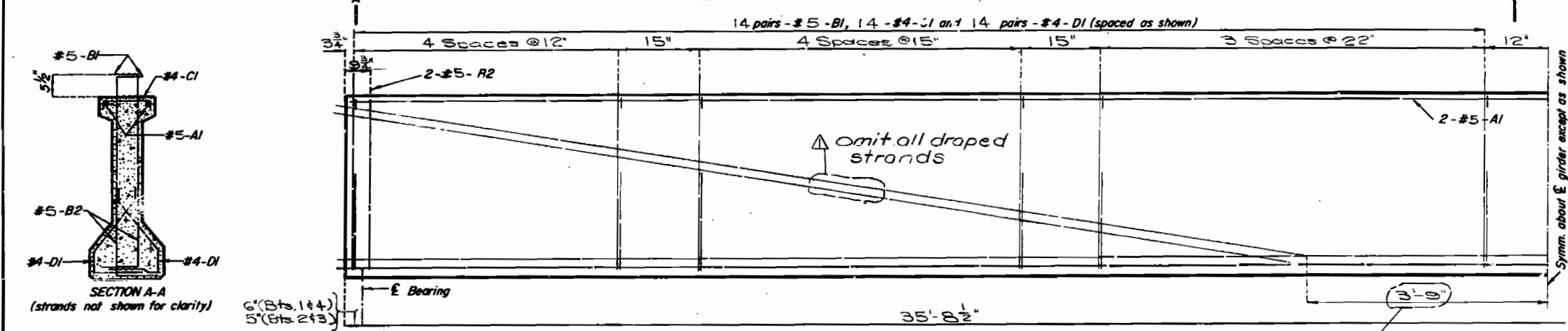
BILL OF REINFORCING STEEL - EACH GIRDER

NO.	SIZE & MARK	ACTUAL LENGTH	SHAPE
2	5 A1	26'-4"	20
56	5 B1	5'-3"	11
4	5 B2	4'-3"	19
28	4 C1	13"	10
56	4 D1	3'-0"	9

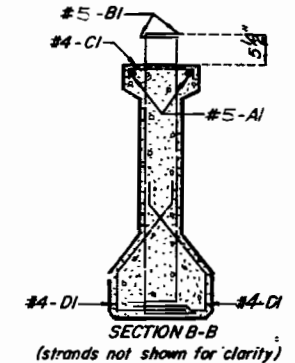
BENDING DIAGRAMS

NOTE:
 Concrete for prestressed girders shall be Class A1 with $f'_c = 5,000$ psi.
 (+) indicates prestressed strand.
 Use (S) strands with an initial prestress force of (23) kips. $\Delta 202$
 Cost of 3/4" coil tie rods placed in diaphragms is included in contract unit price for prestress concrete members.
 Coil ties shall be held in place in the forms by slotted wire-setting studs projecting thru forms. Studs are to be left in place or replaced with temporary plug until girders are erected and then replaced by coil tie rods.

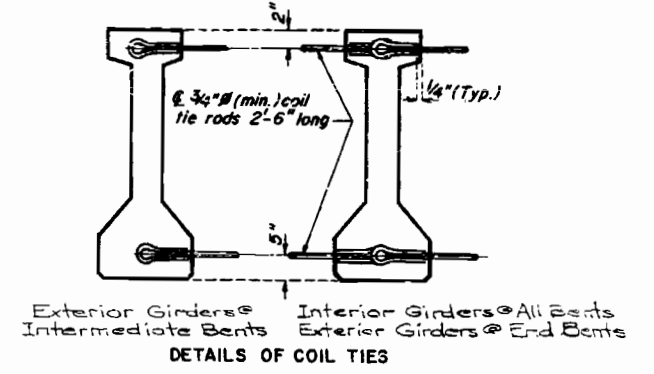
NOTE:
 All dimensions are out to out.
 Where deflecting strands interfere with placement, some in-place bending may be necessary.
 Hooks and bends shall be in accordance with the CRSI Manual of Standard Practice for Detailing Reinforced Concrete Structures stirrups and tie dimensions.
 Actual lengths are measured along centerline bar to the nearest inch. Minimum clearance to reinforcing shall be 1".
 All reinforcement shall be Grade 60.



SECTION A-A
 (strands not shown for clarity)



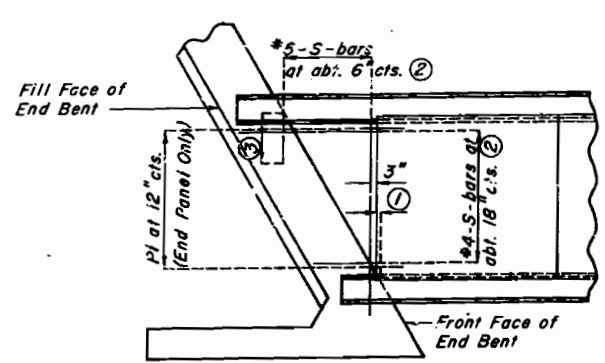
Note: Angles and welded studs to be cast-in-place on girders when alternate stay-in-place forms for slabs are used.
 Angles to be placed no closer than 12" from end of girders.
 Splices in the angles may be made at convenient lengths by a qualified welder.
 Cost of angles and welded studs to be included in contract unit price for prestress concrete members.
 Angles to be galvanized in accordance with ASTM A123.



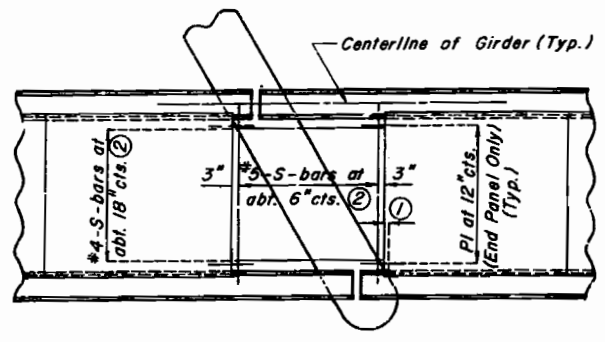
SPS 55.4.6
 Revised April 1973
 MAY 1981
 DETAILED JAN. 1982
 CHECKED FEB. 1982

Note: This drawing is not to scale. Follow dimensions.

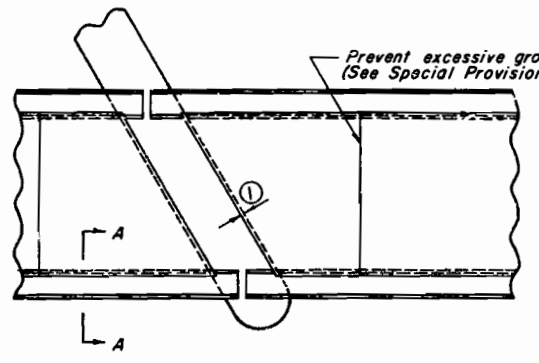
FED. ROAD DIST. NO.	STATE	FED. FID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MD.		88	56	



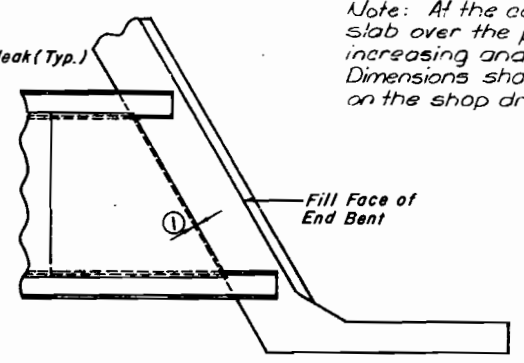
PANELS - SQUARED ENDS



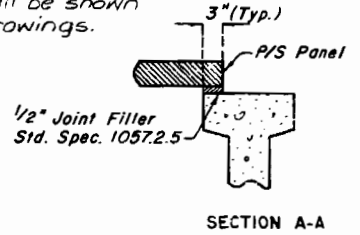
PLAN OF PRESTRESSED PANEL PLACEMENT



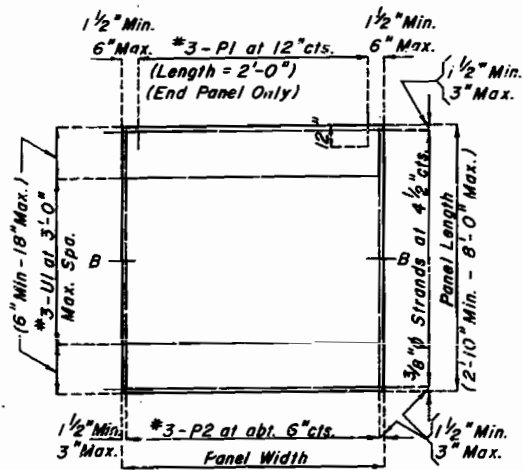
PANELS - SKEWED ENDS



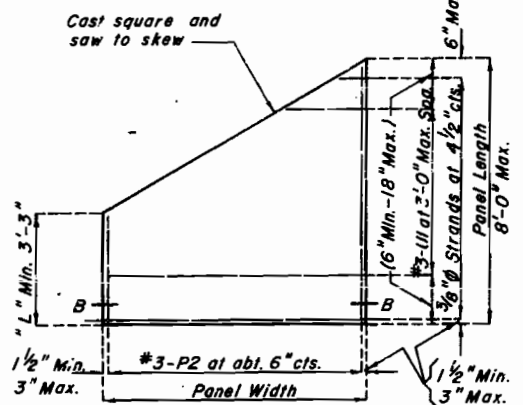
Note: At the contractor's option a 5/8" min. depth slab over the prestress panel may be used by increasing and varying the girder top flange depth. Dimensions shall be shown on the shop drawings.



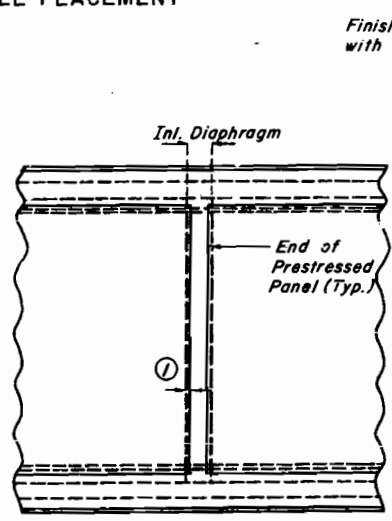
SECTION A-A



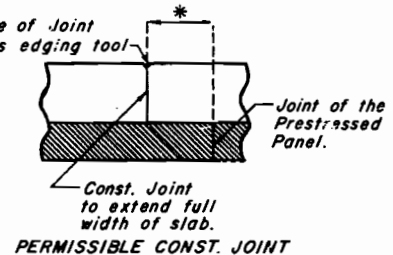
PLAN OF PRESTRESSED PANEL



PLAN OF PRESTRESSED PANEL (SKEWED END-OPTIONAL)



PLAN OF INT. DIAPHRAGM

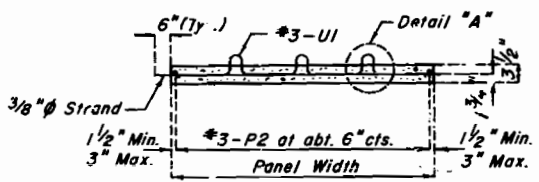


PERMISSIBLE CONST. JOINT

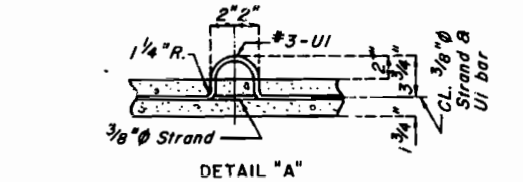
* Adjust the Permissible Const. Joint to a clearance of 6" min. from the joints of the Prestressed Panels.

GENERAL NOTES:
PRESTRESSED PANELS:
 CONCRETE FOR PRESTRESSED PANELS SHALL BE CLASS A1 WITH $f'c = 5,000$ psi.
 THE TOP SURFACE OF ALL PLANKS SHALL RECEIVE A SCORED FINISH WITH A DEPTH OF SCORING OF 1/3" PERPENDICULAR TO THE PRESTRESSING STRANDS IN THE PLANK (SEE SPECIAL PROVISIONS).
 PRESTRESSING TENDON SHALL BE HIGH-TENSILE STRENGTH UNCOATED SEVEN-WIRE (7) STRESS RELIEVED STRANDS FOR PRESTRESSED CONCRETE CONFORMING TO A.S.T.M A-416 EXCEPT THAT NOMINAL DIAMETER OF STRAND = 3/8" AND NOMINAL AREA = 0.085 SQ. IN. AND MINIMUM ULTIMATE STRENGTH = 23,000 LBS. (270 KSI). LARGER STRANDS MAY BE USED WITH THE SAME SPACING AND INITIAL TENSION.
 INITIAL PRESTRESSING FORCE = 16.1 KIPS/STRAND.
 THE METHOD AND SEQUENCE OF RELEASING THE STRANDS SHALL BE SHOWN ON THE SHOP DRAWINGS.
 SUITABLE HOLES OR ANCHORAGE DEVICES FOR LIFTING PANELS MAY BE CAST IN PANELS PROVIDED THEY ARE SHOWN ON THE SHOP DRAWINGS AND APPROVED BY THE ENGINEER. PANEL LENGTHS SHALL BE DETERMINED BY THE CONTRACTOR AND SHOWN ON THE SHOP DRAWINGS.
 WHEN SQUARE END PANELS ARE USED AT SUPPORTS IT IS REQUIRED THAT THE SKEWED PORTION TO BE CAST-IN-PLACE. QUANTITIES ARE INCLUDED IN PAYMENT FOR SLAB ON CONCRETE I GIRDERS.

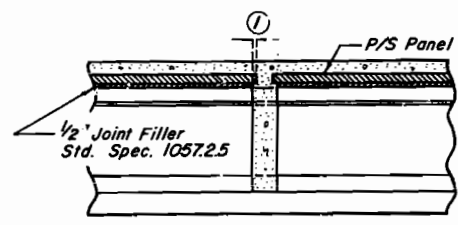
REINFORCING STEEL:
 ALL DIMENSIONS ARE OUT TO OUT.
 MINIMUM CLEARANCE TO REINFORCING STEEL SHALL BE 1-1/2" UNLESS OTHERWISE SHOWN.
 HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE CRIST MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, STIRRUP AND TIE DIMENSIONS.
 ACTUAL LENGTHS ARE MEASURED ALONG CENTERLINE BAR TO THE NEAREST INCH.
 THE PRESTRESSED PANEL QUANTITIES ARE NOT INCLUDED IN THE TABLE OF ESTIMATED QUANTITIES FOR ALTERNATE SLABS.



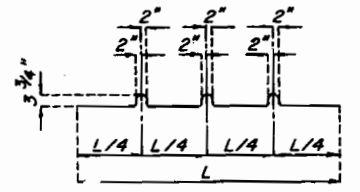
SECTION B-B



DETAIL "A"



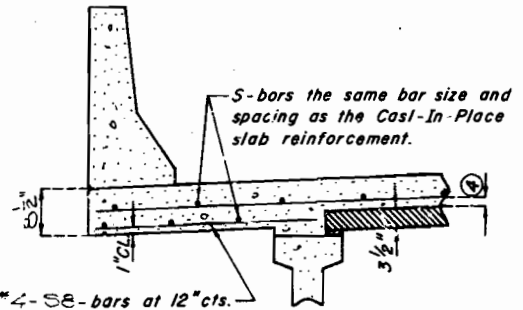
SECTION THRU INT. DIAPHRAGM



BENDING DIAGRAM FOR UI BAR

NOTE:
 ① End panel to be dimensioned 1" inside face of diaphragm.
 ② S-bars shown are bottom steel in slab between panels and used with squared end panels only.
 Cost of S-bars shall be included in price bid for Slab per sq. yd.
 S-bars are not listed in bill of reinforcing.

NOTES CONT.
 Support from diaphragm forms required under optional skewed end until Cast-In-Place concrete has reached its minimum compressive strength.
 ③ Extend S-bars 18" beyond Front Face of End Bent only.



SECTION THRU CANTILEVER

④ 1" CL. Min. #5 and #6 bars.

NOTE: Slab exterior girder haunch to be the same as Cast-In-Place.
 Slab depth over Prestressed Panel varies due to girder camber. Top of slab above Prestressed Panels to be built parallel to grade and to a min. thickness of 5 3/8".

DETAILS OF PRECAST PRESTRESSED PANELS

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 13 of 16.

CLAY COUNTY

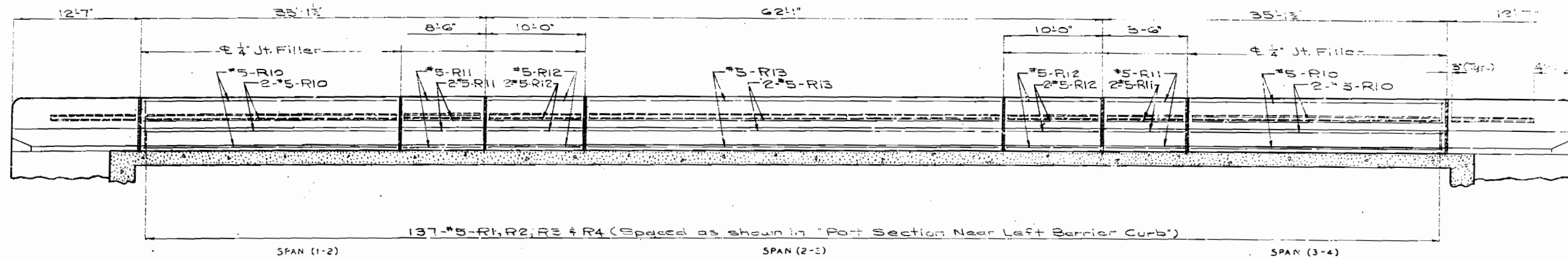
L-660R

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P/S Panel Revised NOV. 1991
 JAN. 1990
 CHECKED FEB. 1982

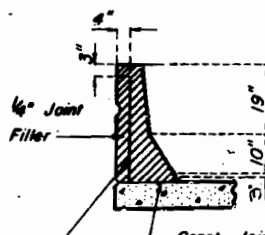
DETAILED JAN. 1982
 CHECKED FEB. 1982

FED. ROAD DIST. NO.	STATE	PROJECT NO.	TOTAL SHEETS
5	MD.		17



SECTION NEAR LEFT BARRIER CURB
(RIGHT BARRIER CURB SIMILAR)

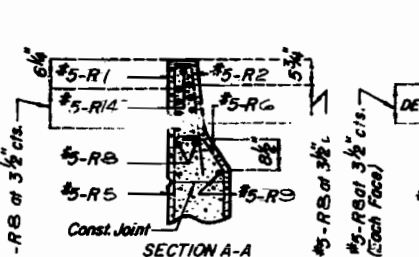
Note: Longitudinal dimensions are along top edge of slab parallel to grade.
All reinforcing steel in barrier curbs shall be epoxy coated.



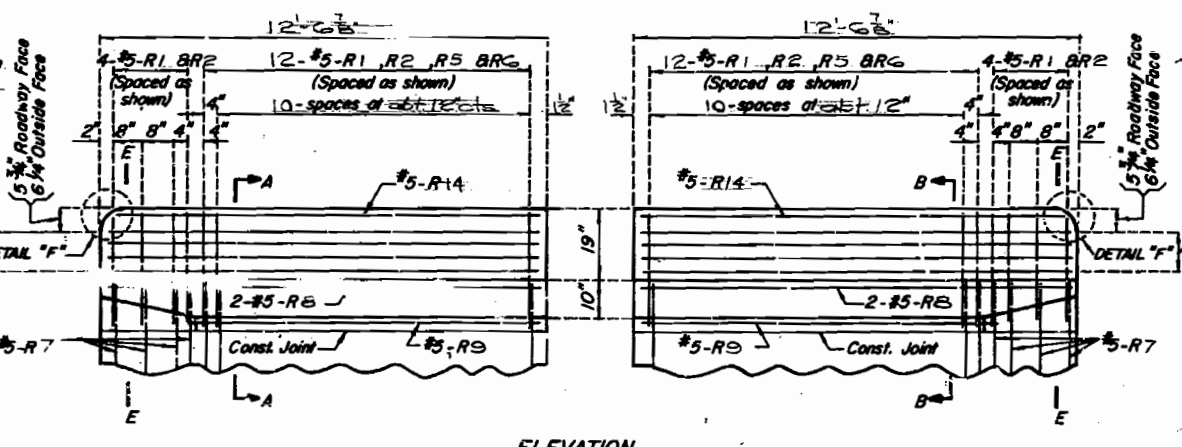
DETAILS OF PLASTIC WATERSTOP

Note: Plastic waterstop shall be placed in all safety barrier curb filled joints.
Cost of plastic waterstop complete in place to be included in unit price bid for safety barrier curb.

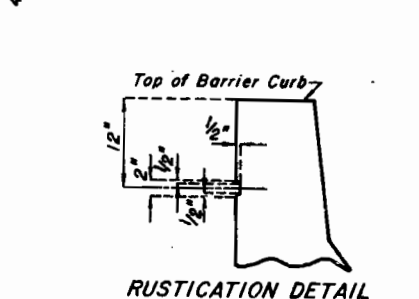
DETAILS OF PLASTIC WATERSTOP



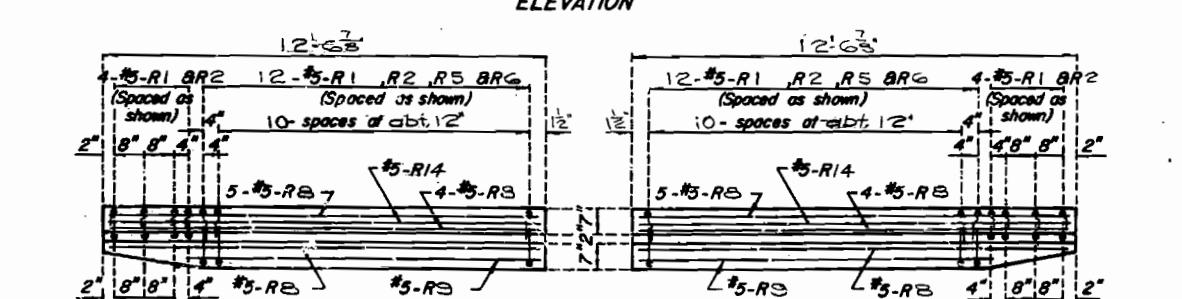
SECTION A-A



ELEVATION



RUSTICATION DETAIL

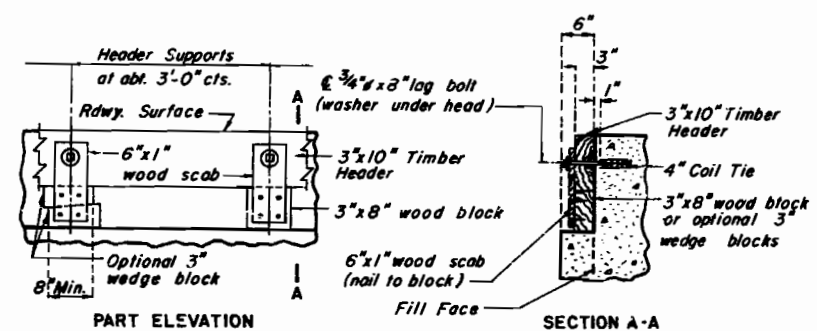


PLAN

NOTES:

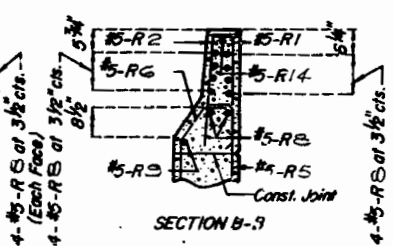
Top of barrier curb to be built parallel to grade with barrier curb joints (except at end bents) normal to grade.
All exposed edges of barrier curb shall have 1/2\"/>

When the barrier curb is bid by linear feet, the contract unit price shall include the cost of all concrete and reinforcement.
Concrete in the safety barrier curb shall be Class B1.

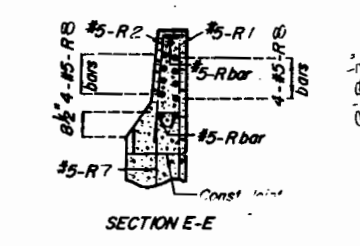


DETAILS OF TIMBER HEADER AT END BENTS

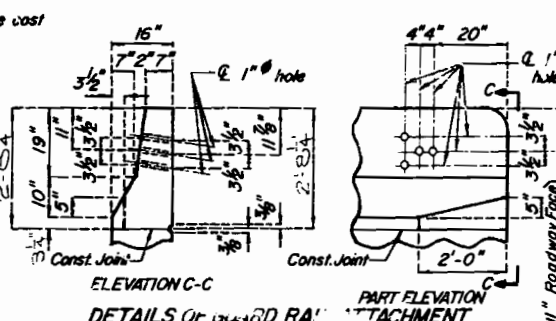
Note: Cost of timber headers complete in place to be included in contract unit price for concrete.



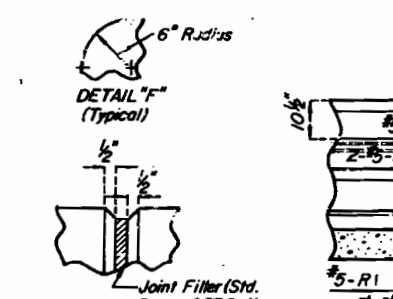
SECTION B-B



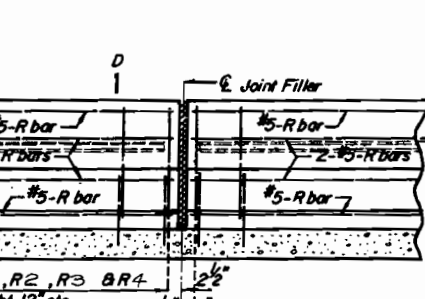
SECTION E-E



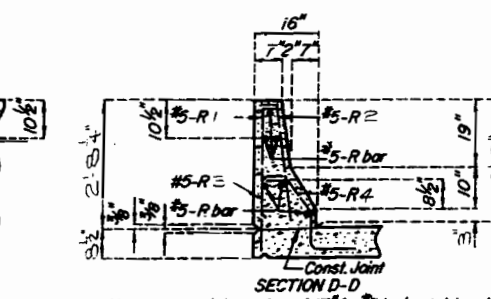
DETAILS OF ROADWAY RAIL ATTACHMENT



FILLED JOINT DETAIL



PART SECTION NEAR LEFT BARRIER CURB



SECTION D-D

Note: Use a minimum lap of 17\"/>

DETAILS OF BARRIER CURB AT END BENTS

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 14 of 16.

CLAY COUNTY

L-660R

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REVISIONS
REVISED JUNE 1981
AUG. 1978

DETAILED JAN. 1982
CHECKED FEB. 1982

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		85	45	

FINAL PLANS

Note:
 All concrete and reinforcement above lower construction joint in end bents are included with superstructure quantities.
 Cost of 3/4" coil tie rods placed in diaphragms is included in contract unit price for P/S members.
 * See Special Provisions.

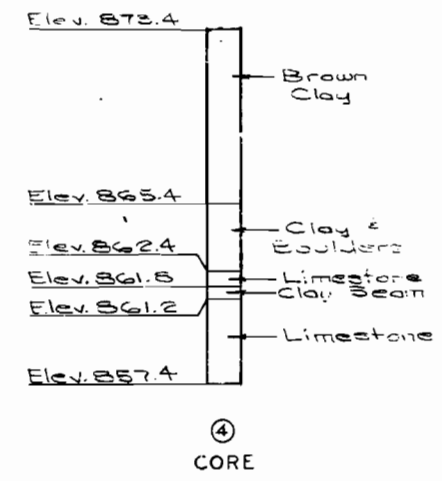
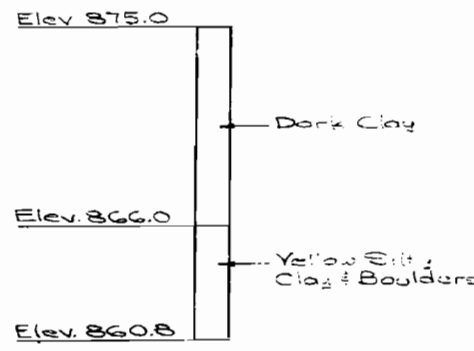
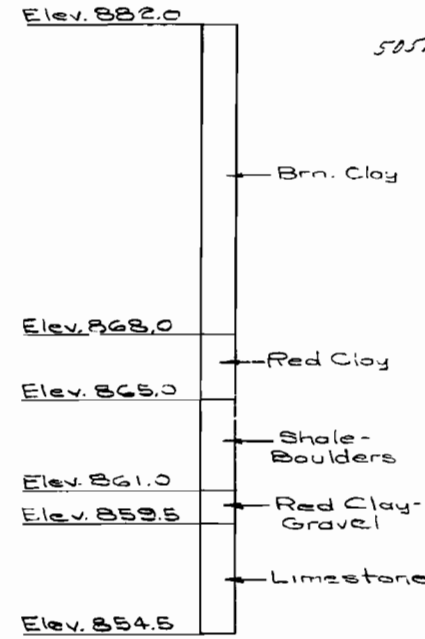
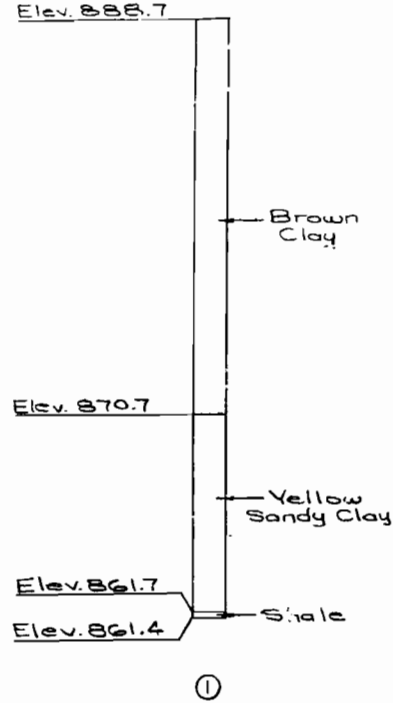
QUANTITIES		
ITEM	SUBSTR.	SUPERSTR. TOTAL
Special Work	Lump Sum	1
Removal of Existing Bridge Deck	Sq. Ft.	6298
Structural Steel Piles (10')	Lin. Ft.	143
Class B Concrete	Cu. Yd.	70.5
() Slab On Concrete I-Girder *	Sq. Yd.	817
Safety Barrier Curb	Lin. Ft.	215
Plain Neoprene Sealing Pad	Each	24
Laminated Neoprene Bearing Pads	Each	12
Prestressed Concrete I-Girder 35 Ft. Span	Each	12
Prestressed Concrete I-Girder 60 Ft. Span	Each	6
Reinforcing Steel	Lb.	9460
CONTINGENT		
Reinforcing Steel	Lb.	3190

QUANTITIES FOR SLAB	
TYPE OF SLAB	SLAB ON CONC. I-GDR. REINF. (LBS.)
	CONC. EPOXY PLAIN CU. YD.
Precast Panel Forms	37150 5860 2234

The table of Estimated Quantities for Alternate Slabs represents the quantities used by the state in preparing the cost estimate for concrete slabs. Variations may be encountered in these estimates due to site conditions but these variations cannot be used for an adjustment in the Contractor Unit Price per square yard of Alternate Slab used.
 See Special Provisions for alternate methods of forming slabs.
 Precast panel quantities based on skewer and curbs.

PILE DATA				
BENT NO.	1	2	3	4
Pile Type and Size	HP10x42			HP10x42
Number	2			2
Approximate Length	Ft. 37			36
Design Bearing	Tons 263			263
Hammer Energy Required	Ft. Lb. 7000			7000

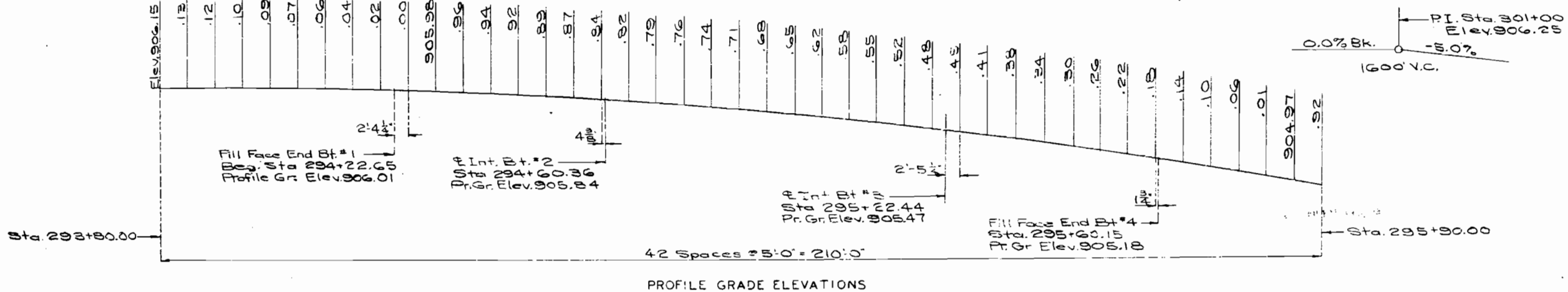
Minimum energy requirements of hammer based on plan length and design bearing value of piles.
 All piles were driven to practical refusal.



505.01

BORING DATA

Note: For location of Borings see sheet No. 1.



PROFILE GRADE ELEVATIONS

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MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

FED. PROJ. DIST. NO.	STATE	FED. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		83	44	
SEC. 1412 TWP. 50N RGE. 23W.					

GENERAL NOTES:

- Design Specifications:**
A.A.S.H.T.O. 1977 Load Factor Design and Interim Specifications 1980
- Design Loading:**
HS 20-44
15" per sq. ft. Future Wearing Surface
Modified 24,000# Tandem Axle
Earth 120#. Equivalent Fluid Pressure 30#
Superstructure: Simply supported non-composite for Dead Load. Continuous composite for live load.
- Design Unit Stresses:**
Class B Concrete (Substructure) $f_c = 3,000$ psi
Class B1 Concrete (Safety Barrier Curb) $f_c = 4,000$ psi
Class B2 Concrete (Superstructure except Prestressed Girders and Safety Barrier Curb) $f_c = 4,000$ psi
Reinforcing Steel (Grade 60) $f_y = 60,000$ psi
Steel Pile $f_t = 9,000$ psi
- Note:** For Prestressed Girder Stresses see Sheet Nos. 9 & 10.
- Neoprene Pads:**
Bearings were 60 durometer Neoprene Pads.
Cost of furnishing, fabricating and installing Neoprene Bearings complete in place, was paid for at the contract unit bid price for Plain and Laminated Neoprene Bearings Pads per each.
- Joint Filler:**
All joint filler did meet the requirement of Std. Spec. 1057.2.4 except as noted.
- Reinforcing Steel:**
Minimum clearance to reinforcing steel was 1 1/2" unless otherwise shown.
- Construction Clearance:**
A minimum vertical clearance of 13'-6" from crown of existing lanes and a minimum lateral clearance of 33'-0" centered on existing lanes was maintained during construction.
- Widen, Extension and Repair:**
Outline of old work is indicated by light dashed lines. Heavy lines indicate new work. Bars bonded in old concrete not removed were cleanly stripped and embedded into new concrete where possible. If length available, old bars did extend into new concrete at least 40 diameters for smooth bars and 30 diameters for deformed bars.

BM Elev. 904.60 on top of Rt. barrier curb Bent No. 4 Sta. 295+47 Bridge L-659R

BRIDGE OVER RUSSELL ROAD

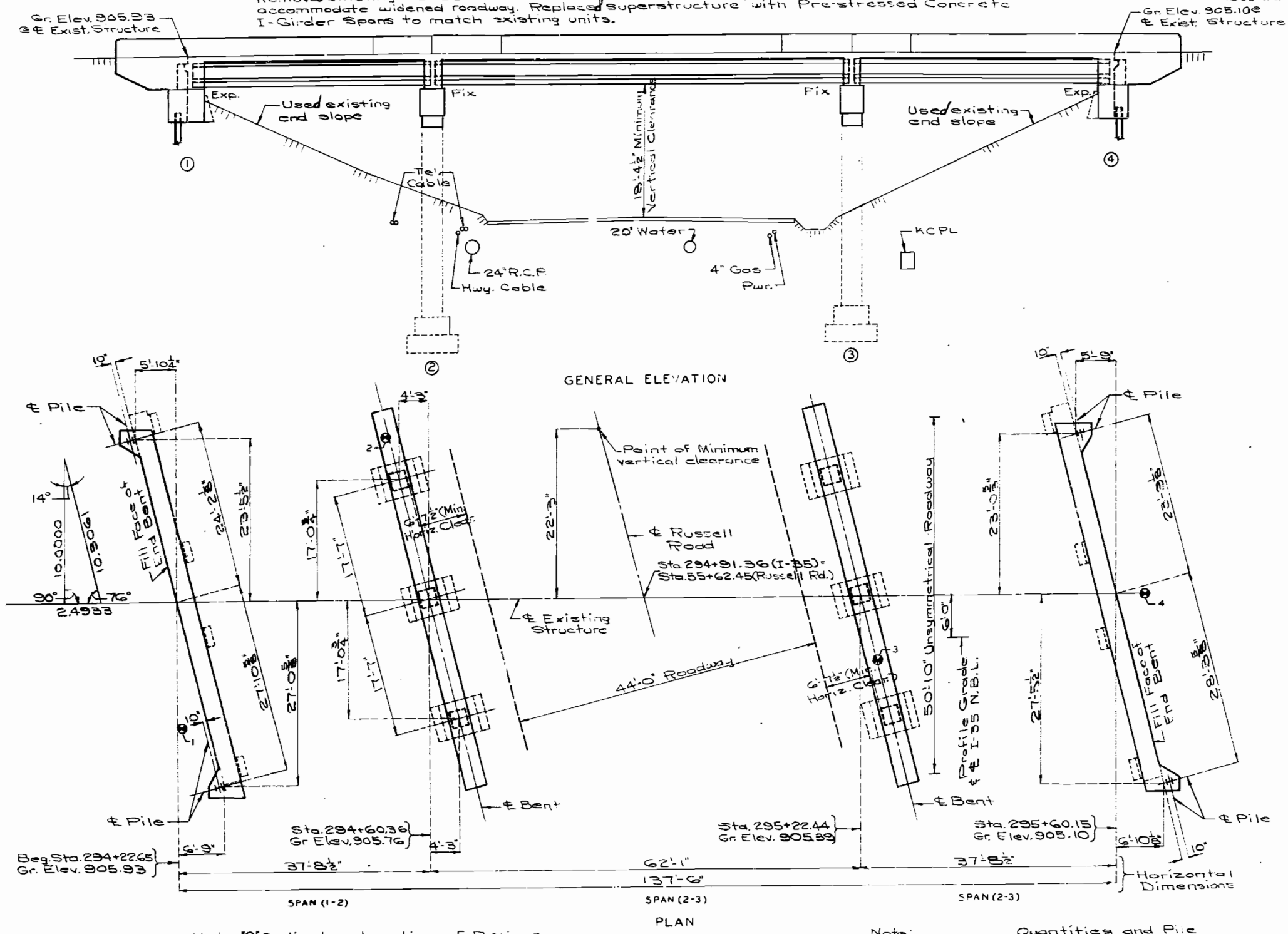
STATE ROAD FROM RTE. 210 NORTH
IN KANSAS CITY
PROJECT NO. I-IR-35-1(120) STA. 294+22.65
JOB NO. 4-I-35-340 RTE. I-35 N.B.L.
CLAY COUNTY

STD.
STD. 706.35
L-660R

DATE 1/13/83

PI. Sta. 301+00
Elev. 906.25
0.0% Gr. 0+00 to 1600' V.C.
-5.0% Abd.

Remove existing 35'-60'-35' Concrete Deck Girder Spans, widen substructure units to accommodate widened roadway. Replace Superstructure with Pre-stressed Concrete I-Girder Spans to match existing units.



Note: (1) Indicates location of Borings. For Boring Data see sheet No. 2.

Note: Quantities and Pile Data see sheet No. 2.

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 1A of 16.

DESIGNED DEC. 1981
DETAILED JAN. 1982
CHECKED FEB. 1982

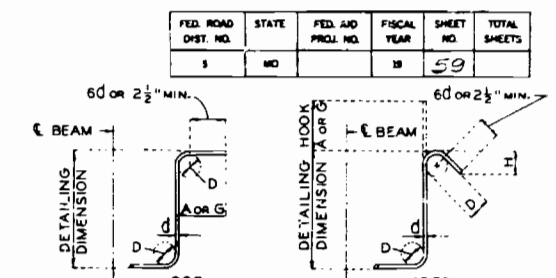
342

COMPLETE BILL OF REINFORCING STEEL

NO. REQ'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	DIMENSIONS									NOMINAL LENGTH FT.	ACTUAL LENGTH FT.	WEIGHT LBS.						
								B	C	D	E	F	H	K	FT.	IN.				FT.	IN.	FT.	IN.	FT.	IN.
6	6H18	WING		20					8	7.000							8	2	8	2	87				
		INCR = 18.503 IN							11	3.000							11	3	11	3	87				
6	6H19	WING		20					8	0.000							11	10	11	10	89				
		INCR = 23.000 IN							11	10.000															
2	6T3	WING		25	S				2	0.000	4	6.875	6	11.000			2	0.250	4	1.250	13	6	13	5	40
2	6T4	WING		25	S				2	0.000	4	6.625	7	7.000			2	0.250	4	1.000	14	2	14	1	42

COMPLETE BILL OF REINFORCING STEEL

NO. REQ'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	DIMENSIONS									NOMINAL LENGTH FT.	ACTUAL LENGTH FT.	WEIGHT LBS.								
								B	C	D	E	F	H	K	FT.	IN.				FT.	IN.	FT.	IN.	FT.	IN.		
		C-5T-IN-PLACE																									
		CONVENTIONAL FORMS OR STAY-IN-PLACE FORMS																									
158	651	SLAB		20														53	3.000				53	3		12637	
		INCR = 38.125 IN																	50	0.125						50	
189	553	SLAB		20														49	5.625			49	6	49	6	1228	
126	554	SLAB	E	20														47	0.000			47	0	47	0	9265	
82	555	SLAB	E	20														16	0.000			16	0	16	0	6177	
250	656	SLAB	E	20														53	3.000			53	3	53	3	19995	
50	657	SLAB	E	20														2	1.000			2	1	2	1	1965	
		INCR = 24.125 IN																	50	2.625			50	3	50	3	1965

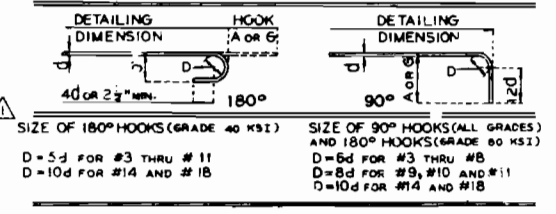


STIRRUP HOOK DIMENSIONS

GRADES 40-50-60 KSI

BAR SIZE	D (IN.)	90° HOOK	135° HOOK	APPROX. H
#3	1-1/2"	4"	4"	2-1/2"
#4	2"	4-1/2"	4-1/2"	3"
#5	2-1/2"	6"	5-1/2"	3-3/4"
#6	4-1/2"	8"	7"	4-1/2"

NOTE: UNLESS OTHERWISE NOTED DIAMETER "D" IS THE SAME FOR ALL BENDS AND HOOKS ON A BAR.



END HOOK DIMENSIONS

BAR SIZE	180° HOOKS		90° HOOKS	
	GRADE 40	GRADE 60	ALL GRADES	
#3	5"	2-3/4"	5"	6"
#4	6"	3-1/2"	6"	8"
#5	7"	4-1/2"	7"	10"
#6	8"	5-1/4"	8"	12"
#7	9"	6-1/4"	10"	14"
#8	10"	7"	11"	16"
#9	12"	8"	15"	19"
#10	13"	9"	17"	22"
#11	14"	10"	19"	21-0"
#14	21-2"	20-1/2"	21-2"	20-1/2"
#18	21-11"	21-3"	21-11"	21-3"

NOTES: ALL STANDARD HOOKS AND BENDS OTHER THAN 180 DEG. TO BE BENT WITH SAME PROCEDURE AS FOR 90 DEG. STD. HOOKS. HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE PROCEDURES AS SHOWN ON THIS SHEET.

E - EPOXY COATED REINFORCEMENT.

S - STIRRUP.

X - BAR IS INCLUDED IN SUBSTRUCTURE QUANTITIES.

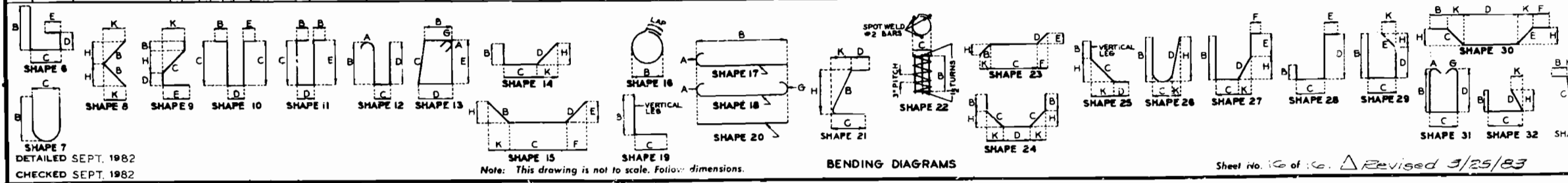
V - BAR DIMENSIONS VARY IN EQUAL INCREMENTS BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE FOLLOWING LINE.

NO. EA. - NUMBER OF BARS OF EACH LENGTH.

NOMINAL LENGTHS - ARE BASED ON OUT TO OUT DIMENSIONS SHOWN IN BENDING DIAGRAMS AND ARE LISTED FOR FABRICATORS USE (NEAREST INCH)

ACTUAL LENGTHS - ARE MEASURED ALONG CENTERLINE BAR TO THE NEAREST INCH.

PAYWEIGHTS ARE BASED ON ACTUAL LENGTHS



SHAPE 7
DETAILED SEPT. 1982
CHECKED SEPT. 1982

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 16 of 16. Revised 3/25/83



**Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet**

May 2, 2024
4:19:37pm

COUNTY : CLAY	BRIDGE : L0660 R	REVIEW STATUS : APPROVED	NBI STATUS : P
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT		RUN DATE : 3/7/2024	SUBMITTAL YEAR : 2023

GENERAL STRUCTURE INFORMATION	ROUTE DESIGNATION INFORMATION
1 State MISSOURI	5A Record Type ROUTE CARRIED 'ON' STRUCT
2 District KC	5B Route Signing Prefix IS
3 County CLAY	5C Designated Level of Service MAINLINE
8 Federal ID No. 6413	5D Route Number 00029
27 Year Built 1954	5E Directional Suffix NOT APPLICABLE
106 Year Reconstructed 1983	7 Facility Carried IS 29 N
42A Type of Service On HIGHWAY	12 Base Hwy. Network YES
21 Structure Maintenance STATE HIGHWAY AGENCY	13A LRS Inventory Route No. 0000005865
22 Structure Owner STATE HIGHWAY AGENCY	13B Subroute No. 00
33 Br. Median Code NO MEDIAN	20 Toll Status ON FREE ROAD
37 Historical Significance NOT ELIGIBLE FOR NR OF HP	26 Functional Classification 11-UR PRNCPL ARTERIAL-IS
101 Parallel Struc Desg RIGHT	28A Lanes on Structure 03
103 Temporary Structure NOT TEMPORARY	100 STRAHNET Designation ON A DEFENSE HWY
112 NBIS Bridge Length YES	104 National Highway System ON NHS
	105 Federal Lands Highway NOT APPLICABLE
	110 Designated Nat. Network YES

STRUCTURE LOCATION INFORMATION	STRUCTURE TRAFFIC INFORMATION
4 Place AVONDALE CITY	29 AADT 56042
Code 02800	30 AADT Year 2023
9 Location S 1 T 50 N R 33 W	102 Direction of Traffic 1-WAY TRAFFIC
11 Milepoint 4.53 miles	109 AADT Truck Percent 12%
16 Latitude 39 D 9 M 60 S	114 Future AADT 100876
17 Longitude 94 D 33 M 31 S	115 Future AADT Year 2043

UNDERRECORD INFORMATION	STRUCTURE GEOMETRIC INFORMATION
6 Features Intersected CST NE PARVIN RD	10 Inventory Rte. Vert. Clear 99 Ft. 99 In.
42B Type of Service Under HIGHWAY	19 By pass Detour Length 0.62 miles
28B Lanes Under Structure 02	32 Approach Roadway Width 51 Ft. 10 In.
54A Vert. Clearance Ref. HIGHWAY	34 Skew 14.00 Degrees
54B Vert. Clearance 17 Ft. 11 In.	35 Struct. Flared NO
55A Rt. Lat Clear Ref. HIGHWAY	47 Total Horiz. Clear 51 Ft. 10 In.
55B Rt. Lat Clearance 6 Ft. 7 In.	48 Maximum Span Length 62 Ft. 0 In.
56 Left Lat Clearance 0 Ft. 0 In.	49 Structure Length 138 Ft. 1 In.
38 Navigation Control N/A	50A Left Curb/Sidewalk Width 0 Ft. 0 In.
39 Nav Vertical Clear 0 Ft. 0 In.	50B Right Curb/Sidewalk Width 0 Ft. 0 In.
40 Nav Horizontal Clear 0 Ft. 0 In.	51 Curb to Curb Br. Width 50 Ft. 10 In.
111 Nav. Pier Protection	52 Deck Width (Out-Out) 53 Ft. 6 In.
116 Nav. Cl. Vert. Clear	53 Vert. Clearance Over Deck 99 Ft. 99 In.

Design_No = 10660



**Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet**

May 2, 2024
4:19:37pm

COUNTY : CLAY	BRIDGE : L0660 R	REVIEW STATUS : APPROVED	NBI STATUS : P
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT		RUN DATE : 3/7/2024	SUBMITTAL YEAR : 2023

LOAD RATING AND POSTING INFORMATION				MATERIAL/CONSTRUCTION INFORMATION			
31	Design Load	HS 20+MOD		43A	Main Struc. Mat type	PRESTRSED CONCRETE CONTIN	
41	Structure Status	A - OPEN NO RESTRICTIONS		43B	Main struc Constr. Type	STRINGER/MULTIBEAM - GRD	
63	Oper. Rating Meth.	LOAD FACTOR		45	# of Main Spans	3	
64	Operating Rating	61 Tons.		44A	Appr Struc. Mat type		
65	Inventory Rating Meth	LOAD FACTOR		44B	Appr Struc. Cnstr. type		
66	Inventory Rating	26 Tons.		46	# of Approach Span	0	
70	Bridge Posting Code	=>LEGAL LOADS		107	Deck Mat/Constr.	1 CONCRETE CIP	
PROPOSED IMPROVEMENT INFORMATION				CONDITION RATING INFORMATION			
	Sufficiency Rating	71.6 Percent		58	Deck Cond. Rating		7
	Deficiency Rating	NOT DEFICIENT		59	Superstructure Cond. Rating		5
	Funding Eligibility			60	Substructure Cond. Rating		6
75A	Proposed Work			61	Channel /Channel Protection Cond. Rating		N
75B	Work Done By			62	Culvert Cond. Rating		N
76	New Struc Length	0 Ft. 0 In.		INSPECTION INFORMATION			
94	Struc Improve Cost	\$ 0,000		90	Gen. Insp Date	9 / 22	
95	Roadway Improve Cost	\$ 0,000		91	Gen. Insp. Frequency	24	Months
96	Total Project Cost	\$ 0,000		92A	Frac. Critical Inspection	N	Months
97	Year of Cost Estimates	0		93A	Frac. Critical Insp. Date		
APPRAISAL RATING INFORMATION				92B	Underwater Inspection	N	Months
36A	Br. Rail App. Rating	MEETS ACCEPTBLE STND		93B	Underwater Insp. Date		
36B	Transition Rail App. Rating	MEETS ACCEPTBLE STND		92C	Special Inspection	N	Months
36C	Approach Rail App. Rating	MEETS ACCEPTBLE STND		93C	Special Inspection Date		
36D	Rail End Treat. App. Rating	MEETS ACCEPTBLE STND		BORDER BRIDGE INFORMATION			
67	Struc Eval App. Rating	5		98	Neighboring State Code		
68	Deck Geometry App. Rating	5		98B	Neighboring State % Respon		
69	Underclearance App. Rating	4		99	Neighboring State Struc. No.		
71	Waterway Adeq. App. Rating	N		APPROVED POSTING INFORMATION			
72	Approach Road App. Rating	8		FIELD POSTING INFORMATION			
113	Scour Assess App. Rating	N		Approved Posting Category S-1			
Ton1 Ton2 Ton3				Field Posting Category S-1			
Tonnage Values for Posting Sign				Ton1 Ton2 Ton3			
General Text for Posting Sign				Tonnage Values for Posting Sign			
NO POSTING REQUIRED				General Text for Posting Sign			
NO POSTING REQUIRED				NO POSTING REQUIRED			

Design_No = 10660



**Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet**

May 2, 2024
4:19:37pm

COUNTY : CLAY	BRIDGE : L0660 R	REVIEW STATUS : APPROVED	NBI STATUS : P
RECORD TYPE : ROUTE 'UNDER' STRUCT		RUN DATE : 3/7/2024	SUBMITTAL YEAR : 2023

GENERAL STRUCTURE INFORMATION	ROUTE DESIGNATION INFORMATION
1 State MISSOURI	5A Record Type ROUTE 'UNDER' STRUCT Code : 2
2 District KC	5B Route Signing Prefix CST
3 County CLAY	5C Designated Level of Service MAINLINE
8 Federal ID No. 6413	5D Route Number 00000
27 Year Built 1954	5E Directional Suffix NOT APPLICABLE
106 Year Reconstructed 0	7 Facility Carried IS 29 N
42A Type of Service On HIGHWAY	12 Base Hwy. Network
21 Structure Maintenance	13A LRS Inventory Route No.
22 Structure Owner	13B Subroute No.
33 Br. Median Code	20 Toll Status ON FREE ROAD
37 Historical Significance	26 Functional Classification 16-URBAN MINOR ARTERIAL
101 Parallel Struc Desg RIGHT	28A Lanes on Structure 03
103 Temporary Structure NOT TEMPORARY	100 STRAHNET Designation RTE NOT A DEFENSE HWY
112 NBIS Bridge Length	104 National Highway System NOT ON NHS
	105 Federal Lands Highway
	110 Designated Nat. Network NO

STRUCTURE LOCATION INFORMATION	STRUCTURE TRAFFIC INFORMATION
4 Place AVONDALE CITY	29 AADT 5728
Code 02800	30 AADT Year 2023
9 Location S 1 T 50 N R 33 W	102 Direction of Traffic 2-WAY TRAFFIC
11 Milepoint 0.82 miles	109 AADT Truck Percent 8%
16 Latitude 39 D 9 M 60 S	114 Future AADT
17 Longitude 94 D 33 M 31 S	115 Future AADT Year

UNDERRECORD INFORMATION	STRUCTURE GEOMETRIC INFORMATION
6 Features Intersected CST NE PARVIN RD	10 Inventory Rte. Vert. Clear 17 Ft. 11 In.
42B Type of Service Under HIGHWAY	19 By pass Detour Length 0.00 miles
28B Lanes Under Structure 02	32 Approach Roadway Width
54A Vert. Clearance Ref.	34 Skew
54B Vert. Clearance	35 Struct. Flared
55A Rt. Lat Clear Ref.	47 Total Horiz. Clear 18 Ft. 4 In.
55B Rt. Lat Clearance	48 Maximum Span Length 62 Ft. 0 In.
56 Left Lat Clearance	49 Structure Length 138 Ft. 1 In.
38 Navigation Control	50A Left Curb/Sidewalk Width
39 Nav Vertical Clear	50B Right Curb/Sidewalk Width
40 Nav Horizontal Clear	51 Curb to Curb Br. Width
111 Nav. Pier Protection	52 Deck Width (Out-Out)
116 Nav. Cl. Vert. Clear	53 Vert. Clearance Over Deck

Design_No = 10660



**Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet**

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LOAD RATING AND POSTING INFORMATION	MATERIAL/CONSTRUCTION INFORMATION																																												
<table border="0" style="width:100%"> <tr><td><input type="checkbox"/> 31</td><td>Design Load</td></tr> <tr><td><input type="checkbox"/> 41</td><td>Structure Status</td></tr> <tr><td><input type="checkbox"/> 63</td><td>Oper. Rating Meth.</td></tr> <tr><td><input type="checkbox"/> 64</td><td>Operating Rating</td></tr> <tr><td><input type="checkbox"/> 65</td><td>Inventory Rating Meth</td></tr> <tr><td><input type="checkbox"/> 66</td><td>Inventory Rating</td></tr> <tr><td><input type="checkbox"/> 70</td><td>Bridge Posting Code</td></tr> </table>	<input type="checkbox"/> 31	Design Load	<input type="checkbox"/> 41	Structure Status	<input type="checkbox"/> 63	Oper. Rating Meth.	<input type="checkbox"/> 64	Operating Rating	<input type="checkbox"/> 65	Inventory Rating Meth	<input type="checkbox"/> 66	Inventory Rating	<input type="checkbox"/> 70	Bridge Posting Code	<table border="0" style="width:100%"> <tr><td><input type="checkbox"/> 43A</td><td>Main Struc. Mat type</td><td>PRESTRSED CONCRETE CONTIN</td></tr> <tr><td><input type="checkbox"/> 43B</td><td>Main struc Constr. Type</td><td>STRINGER/MULTIBEAM - GRD</td></tr> <tr><td><input type="checkbox"/> 45</td><td># of Main Spans</td><td></td></tr> <tr><td><input type="checkbox"/> 44A</td><td>Appr Struc. Mat type</td><td></td></tr> <tr><td><input type="checkbox"/> 44B</td><td>Appr Struc. Cnstr. type</td><td></td></tr> <tr><td><input type="checkbox"/> 46</td><td># of Approach Span</td><td></td></tr> <tr><td><input type="checkbox"/> 107</td><td>Deck Mat/Constr.</td><td></td></tr> <tr><td><input type="checkbox"/> 108A</td><td>Wear Surf Mat/Constr.</td><td></td></tr> <tr><td><input type="checkbox"/> 108B</td><td>Membrane Mat/Constr.</td><td></td></tr> <tr><td><input type="checkbox"/> 108C</td><td>Deck Protect Mat/Constr.</td><td></td></tr> </table>	<input type="checkbox"/> 43A	Main Struc. Mat type	PRESTRSED CONCRETE CONTIN	<input type="checkbox"/> 43B	Main struc Constr. Type	STRINGER/MULTIBEAM - GRD	<input type="checkbox"/> 45	# of Main Spans		<input type="checkbox"/> 44A	Appr Struc. Mat type		<input type="checkbox"/> 44B	Appr Struc. Cnstr. type		<input type="checkbox"/> 46	# of Approach Span		<input type="checkbox"/> 107	Deck Mat/Constr.		<input type="checkbox"/> 108A	Wear Surf Mat/Constr.		<input type="checkbox"/> 108B	Membrane Mat/Constr.		<input type="checkbox"/> 108C	Deck Protect Mat/Constr.	
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