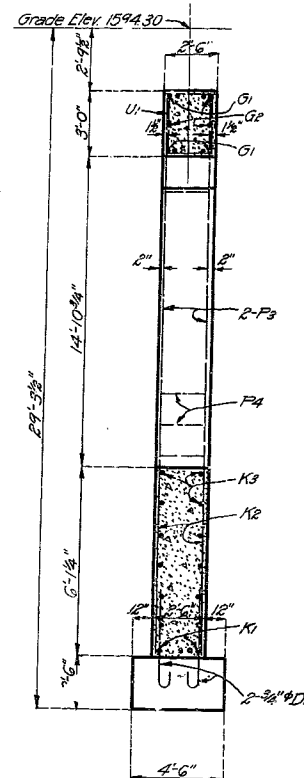
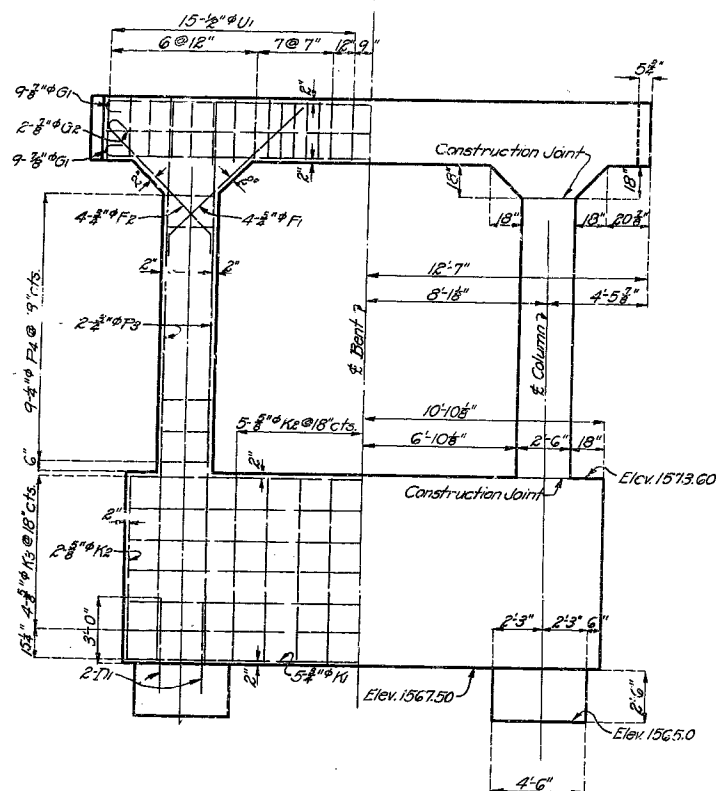


MISSOURI STATE HIGHWAY DEPARTMENT

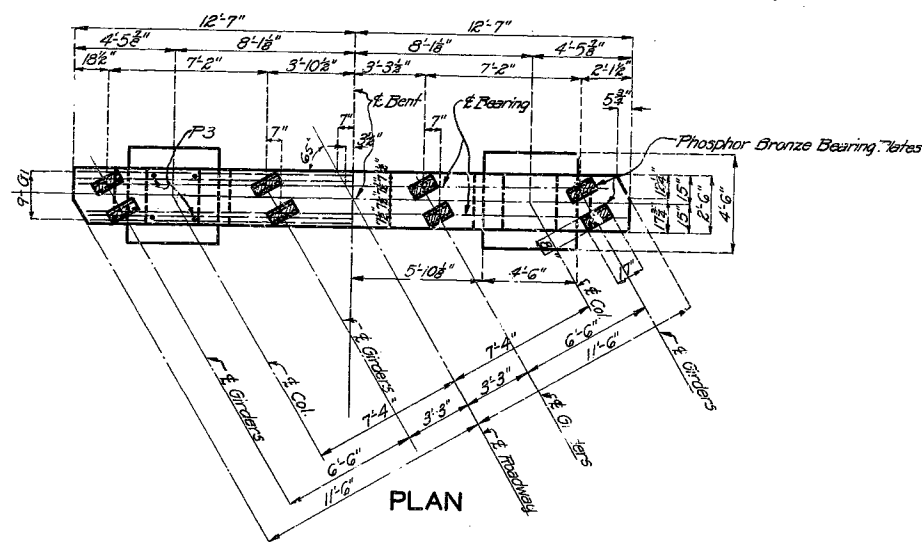
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	R5-567B	19		



SECTION AT E



ELEVATION



PLAN

DETAILS OF BENTS NO. 4 & 5

BILL OF REINFORCING STEEL				
No.	Size	Length	Mark	Location
SUBSTRUCTURE				
Bents No. 1 & 6				
12	3/4"	6'-3"	D1	Footings
8	3/4"	9'-3"	F1	Haunches
9	3/4"	9'-3"	F3	"
16	3/4"	17'-6"	H1	Wings
4	3/4"	31'-3"	H2	"
6	3/4"	29'-9"	H3	"
16	3/4"	25'-0"	H4	Beams
5	3/4"	25'-0"	H5	"
10	3/4"	25'-0"	H6	"
6	3/4"	17'-0"	T1	Wings
6	3/4"	25'-0"	T2	Beam
6	3/4"	16'-6"	T3	Wings
4	3/4"	17'-6"	T4	"
6	3/4"	10'-6"	V1	"
2	3/4"	8'-0"	V2	"
12	3/4"	11'-3"	V3	Columns
4	3/4"	5'-9"	V4	Beam
6	3/4"	10'-0"	V5	Wings
12	3/4"	11'-3"	V6	Columns
31	3/4"	12'-6"	U2	Beam
Bents No. 2 & 5				
16	3/4"	6'-3"	D1	Footings
50	3/4"	3'-6"	D2	"
16	3/4"	9'-3"	F1	Haunches
16	3/4"	8'-0"	F2	"
18	3/4"	26'-6"	G1	Beam
2	3/4"	24'-3"	G2	"
16	3/4"	27'-0"	G3	"
2	3/4"	25'-0"	G4	"
2	3/4"	25'-0"	G5	"
16	3/4"	15'-3"	F1	Columns
18	3/4"	9'-0"	F2	"
19	3/4"	10'-0"	F3	"
26	3/4"	11'-0"	U1	Beam
26	3/4"	9'-6"	U3	"
Bents No. 3 & 4				
16	3/4"	6'-3"	D1	Footings
16	3/4"	9'-3"	F1	Haunches
16	3/4"	8'-0"	F2	"
36	3/4"	26'-6"	G1	Beams
4	3/4"	24'-3"	G2	"
10	3/4"	21'-3"	K1	Collision Walls
44	3/4"	5'-9"	K2	"
16	3/4"	21'-3"	K3	"
16	3/4"	23'-9"	F3	Columns
36	3/4"	10'-0"	P4	"
60	3/4"	11'-0"	U1	Beams

Bending Sketches & Cutting Diagrams

DI-F3-V3

6-H3 BARS CUT 6

GI-G3

UI-U3-P2-P4

U2

R203-R3

6-S12 BARS CUT 6

SUPERSTRUCTURE

12-S9 BARS CUT 48

AND BEND AS SHOWN

12-S8 BARS CUT 48

AND BEND AS SHOWN

S4-S6

For Bars B1, B2, B3, B4 & B5, and bending sketches of bars B1, B3, B4 & B5, see Std. C6535.

Note: Dimensions are given along centerline of bars and are for computed lengths.

For Bars B1, B2, B3, B4 & B5, and bending sketches of bars B1, B3, B4 & B5, see Std. C-6535.
Note: Dimensions are given along centerline of bars and are for computed lengths.

BRIDGE OVER ST.L. & S.F.R.R. TRACKS

STATE ROAD FROM U.S.R. 60 TO 4VA

ABOUT .5 MILES S.E. OF MANSFIELD

PROJECT NO. R5-587B

STA. 785+15.73

WRIGHT

COUNTY

SUBMITTED BY *M.R. Lacy* DATE 4/9/30
APPROVED BY *M. Colver* DATE
BRIDGE ENGINEER
CHIEF ENGINEER

STD.C-5501
STD.C-5520
STD.C-6501
STD.C-6535
STD.S-818
H-290

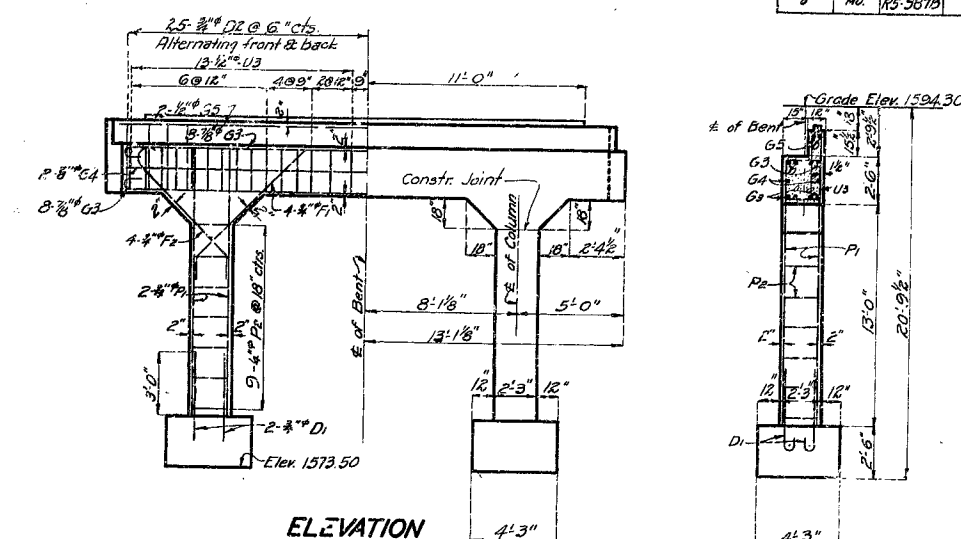
Note: This drawing is not to scale.
Follow dimensions.

Sheet No. 2 of 5

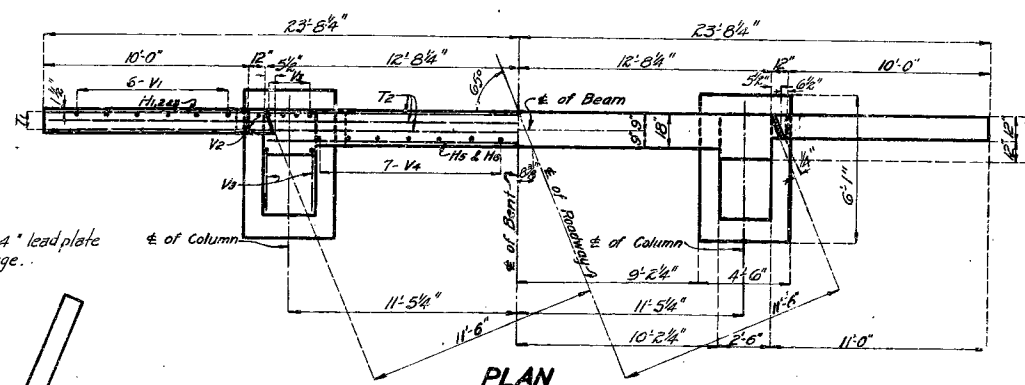
Drawn Feb. 1930 By T.H.M.
Traced Feb. 1930 By W.H.
Checked Mar. 1930 By C.D. & K.

446

FED. RES. DIST. NO.	STATE	FED. NO PROJ. NO.	"FISCAL YEAR	SHEFF NO.	TOTAL SHEFF
8	MO.	R5-587B			

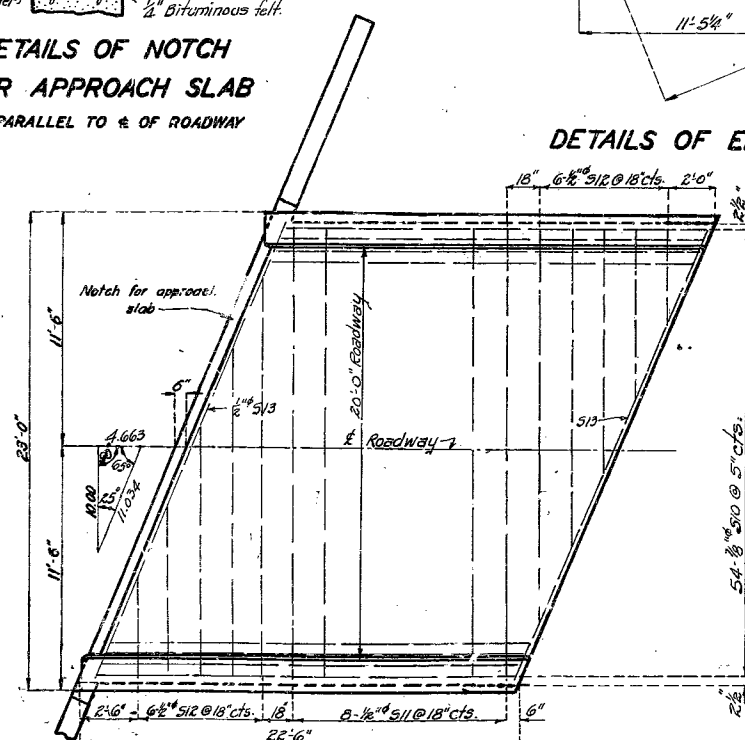


SECTION AT ϕ
AT RIGHT ANGLES TO ϕ OF BENT



PLAN
DETAILS OF INTERMEDIATE BENT NO. 2

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

[illegible]

Note: For details of key see Std. C-5520

Note: See "Note" Sheet No. 5

DETAILS OF EXPANSION JOINT AT BENT NO.2

STATE ROAD FROM U.S.R.60 TO AVA
ABOUT .5 MILES S.E. OF MANSFIELD

PROJECT NO. B 5-587B

STA. 785 + 15.73

COUNTY

SUBMITTED BY MR. Lacy DATE 4/9/3
BRIDGE NUMBER

APPROVED BY *W. H. Carter* DATE _____
CHIEF ENGINEER

Sheet No. 3 of 5

DATE
CHIEF ENGINEER

BENTS, -SLABS -SKEWED

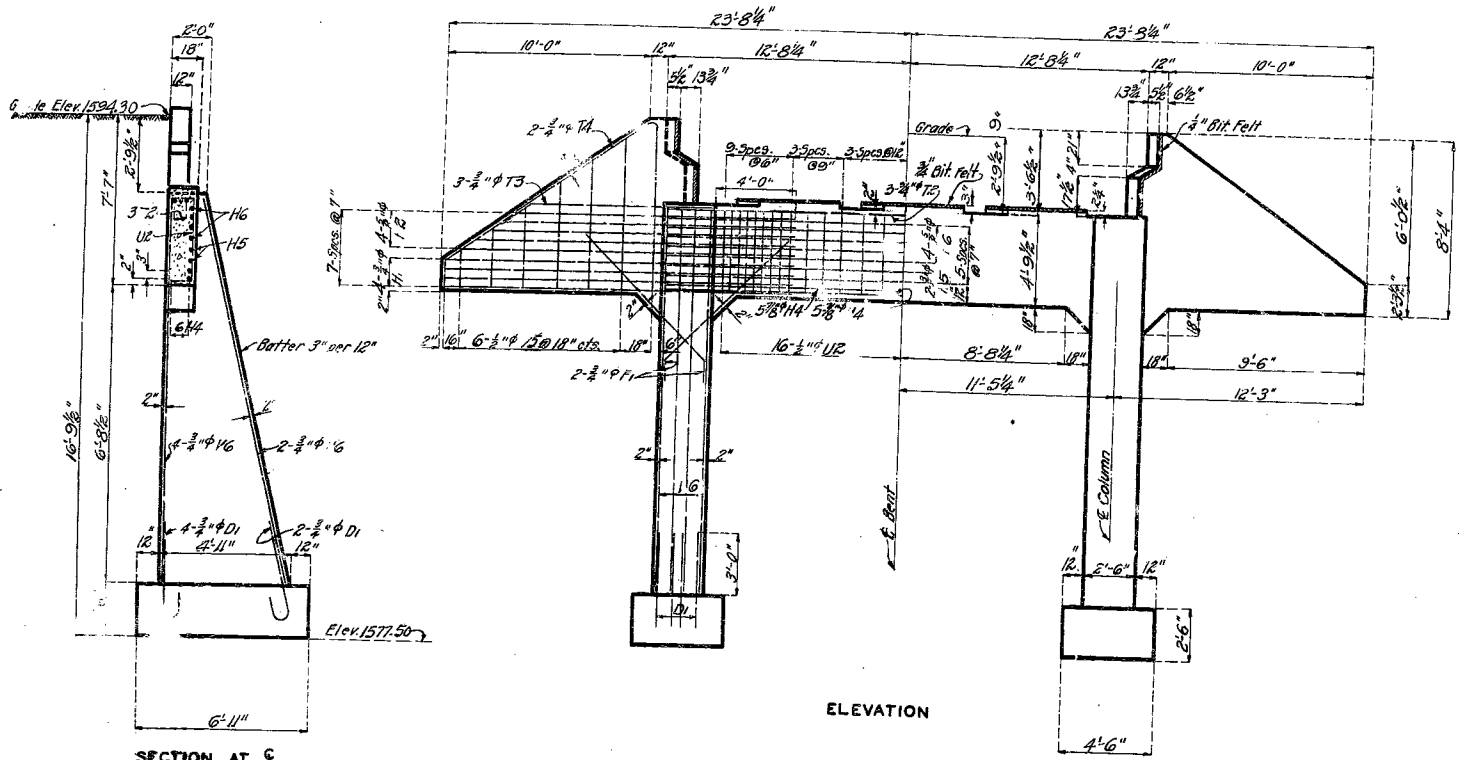
C5606

Assess. filed Feb. 1930 by JHM.
Chg. March 50 by A.H.
Dr. NHR.
C. J. P.

PLAN OF SLAB

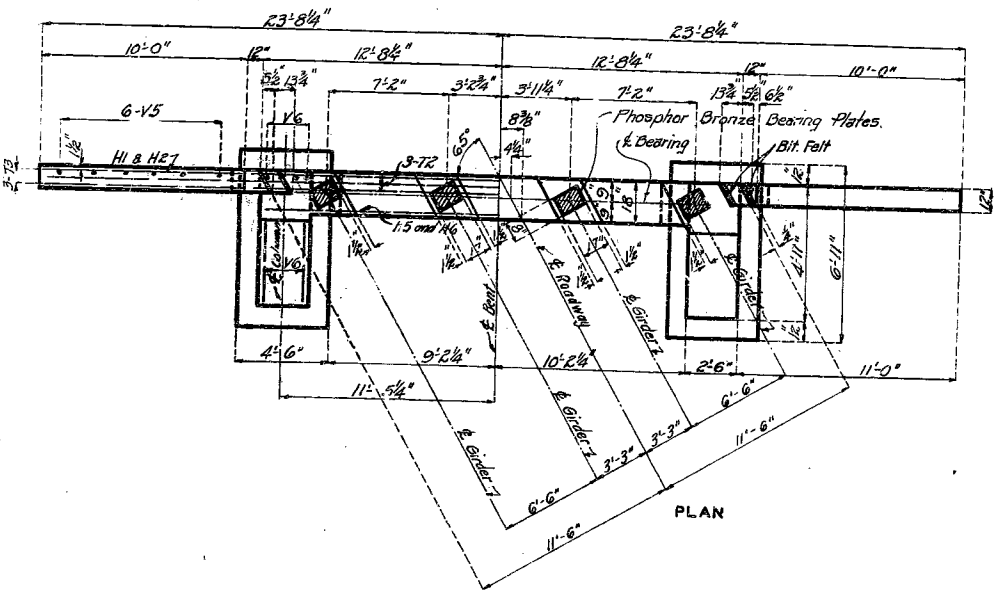
MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO	RS-587B			



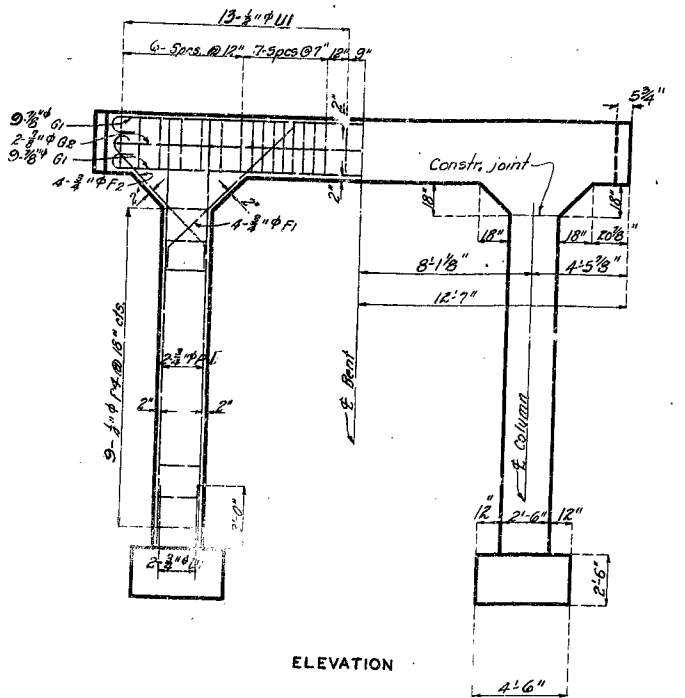
ELEVATION

SECTION AT E



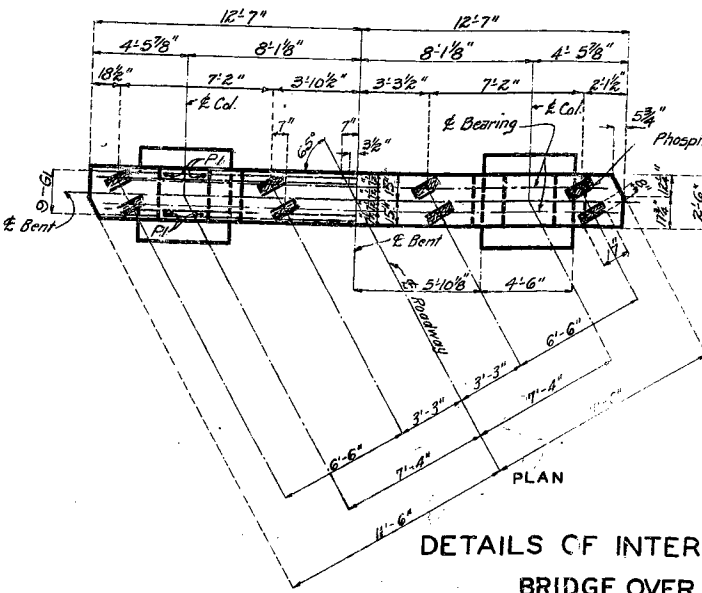
PLAN

DETAILS OF END BENT NO. 6



ELEVATION

SECTION AT E



PLAN

DETAILS OF INTERMEDIATE BENT NO. 3
BRIDGE OVER ST.L. & S.F.R.R. TRACKS

STATE ROAD FROM U.S.R. 60 TO AVA
ABOUT .5 MILES S.E. OF MANSFIELD
PROJECT NO. R 5-587B STA. 785+15.73

WRIGHT COUNTY

SUBMITTED BY: *MR. Lacy* DATE: 4/9/20
APPROVED BY: *MR. Lacy* DATE: 4/9/20
BRIDGE ENGINEER
CHIEF ENGINEER

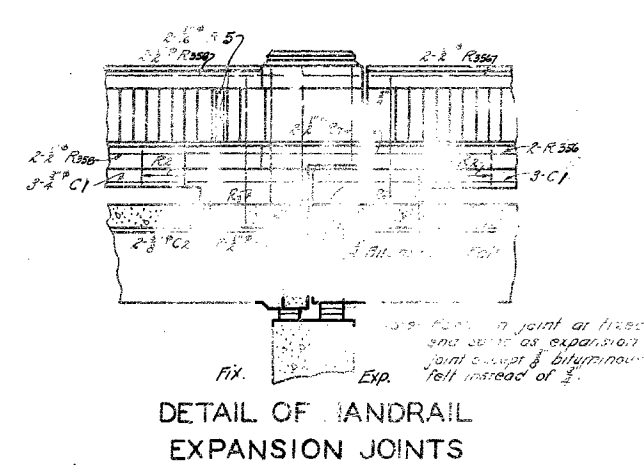
STD.G-5501
STD.C-5520
STD.C-6501
STD.C-5535
STD.S-818
H-290

448

Assembled by T.M.M. - Feb. 1930
Checked by W.H. March 1930
Drawn by H.E.C. Mar 1928
Checked by L.B. Mar. 1928

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

Doc No.	Doc No	Doc No	Doc No	Doc No
5	150	RS-587B	19	

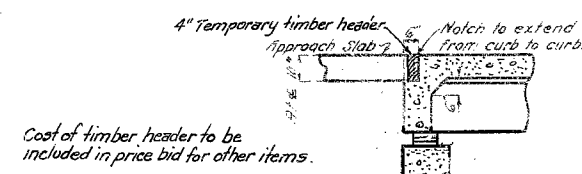
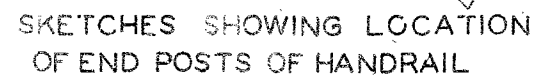


DETAIL OF HANDRAIL EXPANSION JOINTS

Note:-
For details of handrail and curb for span (1-2) see "20 A" on std. C550/
For details of handrail and curb for spans (2-3) (3-4) and (4-5) see "35B"
and for span (5-6) see "35C" both on std. C650.

DETAIL OF REVEL FOR CONST.
AT CURB

Use edging tool at top surface of roadway slab each side of felt joint.
DETAIL OF BEVEL FOR BIT.



DETAIL OF NOTCH
FOR APPROACH SLABS
SECTION PARALLEL TO C. OF ROADWAY

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

STATE ROAD FROM U.S.R.60 TO AYA
ABOUT .5 MILES S.E. OF MANSFIELD
PROJECT NO R.5-587B STA. 7


UNTY


DATE 4/9/30


DATE _____

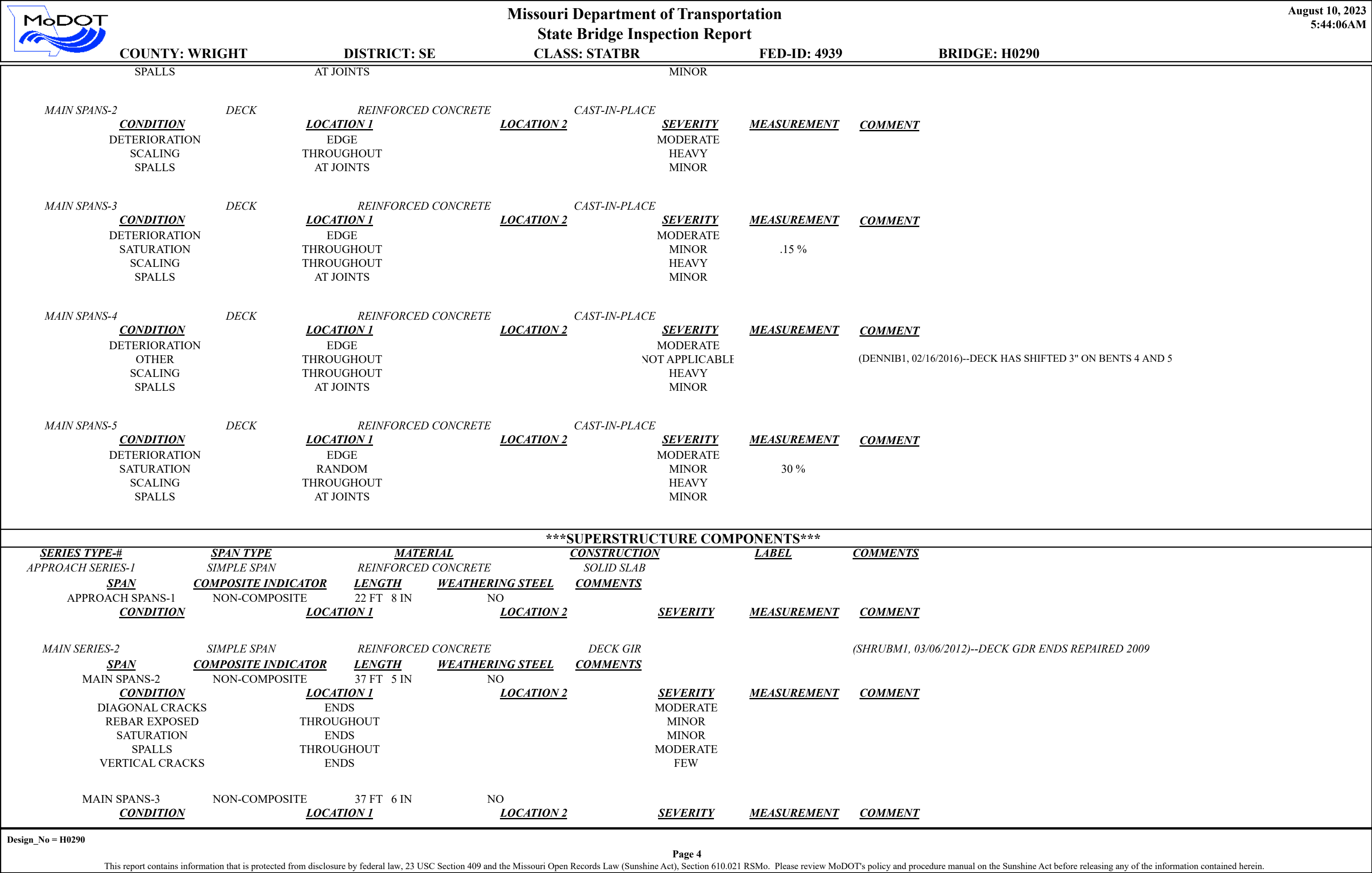
STD.G-5501
STD.G-5520
STD.G-5501
STD.C-535
STD.S-818
H-290

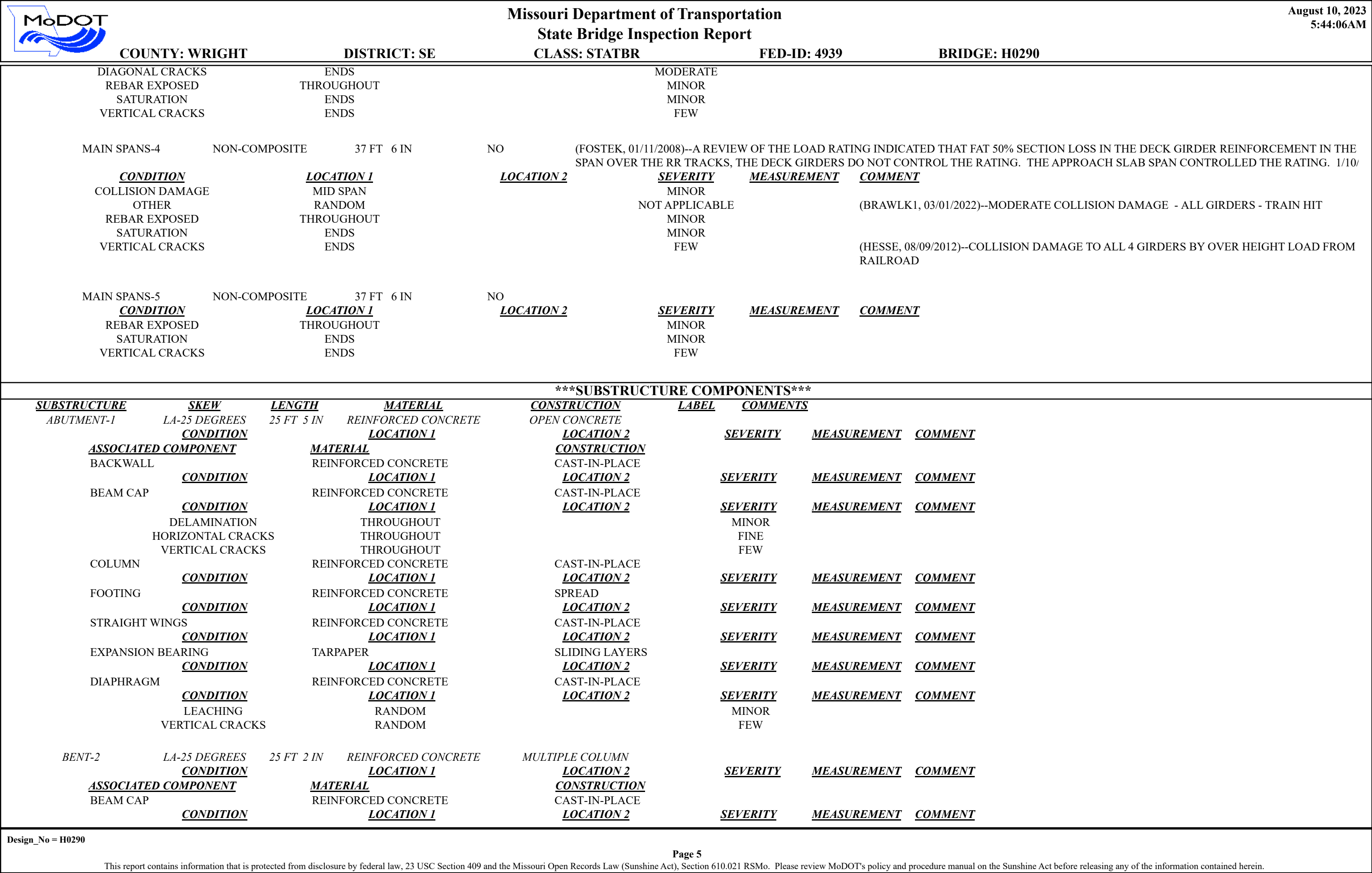
Feb	30	J.H.M.
March	30	A.T.N.


		<div>Missouri Department of Transportation</div> <div>State Bridge Inspection Report</div>				<div>August 10, 2023</div> <div>5:44:06AM</div>			
COUNTY: WRIGHT		DISTRICT: SE		CLASS: STATBR		FED-ID: 4939		BRIDGE: H0290	
GENERAL STRUCTURE INFORMATION							***BRIDGE INSPECTION INFORMATION***		
<div>ROUTE: RTUS</div> <div>FEATURE: CST SOUTH ST, BNSF RR</div> <div>STATUS: P-POSTLOAD</div> <div>LOG MILE: 0.067</div> <div>DETOUR: 28.00 MILES</div> <div>NHS: NO</div> <div>BUILT: 1930</div> <div>REHAB:</div> <div>LOCATION: S 21 T 28 R 15 W</div> <div>LATITUDE: 37 6 1.17 (DMS)</div> <div>LONGITUDE: 92 34 33.94 (DMS)</div>		<div># SPANS: 5</div> <div>LANES ON: 1</div> <div>LANES UNDER: 2</div> <div>COMPASS DIRECTION: SOUTH to NORTH</div> <div>DIRECTION OF TRAFFIC: 1-LN/2-WAY</div> <div>FUNCTIONAL CLASS: RL-MINOR COLLECTOR</div> <div>NBI OWNER: MODOT</div> <div>NBI MAINTAINED: MODOT</div> <div>MAINTENANCE DISTRICT: SE</div> <div>MAINTENANCE COUNTY: WRIGHT</div> <div>SUB AREA: 7H04</div>		<div>PLACE CODE: 45740 MANSFIELD CITY</div> <div>LENGTH: 173 FT 0 IN</div> <div>MAXIMUM SPAN: 37 FT 6 IN</div> <div>APPROACH ROADWAY: 20 FT 0 IN</div> <div>CURB TO CURB: 20 FT 0 IN</div> <div>OUT TO OUT: 23 FT 11 IN</div> <div>AADT: 388</div> <div>AADT YEAR: 2022</div> <div>AADT TRUCK: 8.1%</div> <div>FUTURE AADT: 601</div> <div>FUTURE AADT YEAR: 2042</div>		<div>DATE: 02/23/2023</div> <div>RESPONSIBILITY: DISTRICT</div> <div>FREQUENCY: 12</div> <div>CALCULATED INTERVAL**: 12</div> <div>TEAM LEADER: ED HESS</div> <div>ELEMENT: NO</div> <div>INSPECTOR 2:</div> <div>INSPECTOR 4:</div> <div>** When calculated interval exceeds the frequency, a justification comment per BIRM is required.</div>			
						GENERAL INSPECTION COMMENTS			
FRACTURE CRITICAL INSPECTION INFORMATION					***INDEPTH INSPECTION INFORMATION***				
<div>DATE:</div> <div>FREQUENCY:</div> <div>TEAM LEADER:</div> <div>INSPECTOR 2:</div> <div>** When calculated interval exceeds the frequency, a justification comment per BIRM is required.</div>					<div>RESPONSIBILITY:</div> <div>CALCULATED INTERVAL**:</div> <div>INSPECTOR 3:</div> <div>INSPECTOR 4:</div> <div>DATE:</div> <div>FREQUENCY:</div> <div>TEAM LEADER:</div> <div>INSPECTOR 2:</div> <div>** When calculated interval exceeds the frequency, a justification comment per BIRM is required.</div>				
FRACTURE CRITICAL INSPECTION COMMENTS					INDEPTH INSPECTION COMMENTS				
SPECIAL INSPECTION INFORMATION					***UNDERWATER INSPECTION INFORMATION***				
<div>DATE: 09/05/2012</div> <div>FREQUENCY: 999</div> <div>TEAM LEADER:</div> <div>INSPECTOR 2: ED HESS</div> <div>** When calculated interval exceeds the frequency, a justification comment per BIRM is required.</div>					<div>RESPONSIBILITY: DISTRICT</div> <div>CALCULATED INTERVAL**:</div> <div>INSPECTOR 3:</div> <div>INSPECTOR 4:</div> <div>CATEGORY: DAMAGE POST INCIDE</div> <div>NBI: NO</div> <div>METHOD:</div> <div>** When calculated interval exceeds the frequency, a justification comment per BIRM is required.</div>				
SPECIAL INSPECTION COMMENTS					UNDERWATER INSPECTION COMMENTS				
<div>(HESSE, 09/05/2012)--BRIDGE HIT BY TRAIN FOR THIRD TIME IN A MONTH. JUST CAUGHT THE CONCRETE ON BOTTOM OF GIRDERS. NO REBAR SHOWING</div> <div>(HESSE, 08/31/2012)--TRAIN HIT FORMS FROM PREVIOUS HIT - NO DAMAGE TO REPAIRS - CONTACTED HOWARD STUART, BNSF RAILMASTER, STATED THEY WOULD NEED TO ADDRESS THIS SECTION OF TRACK TO PREVENT FUTURE HITS</div>									
OTHER SPECIAL INSPECTIONS					OTHER UNDERWATER INSPECTIONS				
<div>(HESSE, 08/31/2012)--VERTICLE CLEARANCE MEASURED AT 20'-4"</div> <div>DATE</div> <div>FREQUENCY</div> <div>CATEGORY</div> <div>NBI</div> <div>CALCULATED INTERVAL</div> <div>RESPONSIBILITY</div> <div>METHOD</div>					<div>DATE</div> <div>FREQUENCY</div> <div>CATEGORY</div> <div>NBI</div> <div>CALCULATED INTERVAL</div> <div>RESPONSIBILITY</div> <div>METHOD</div>				
Design_No = H0290									
<div>Page 1</div> <div>This report contains information that is protected from disclosure by federal law, 23 USC Section 409 and the Missouri Open Records Law (Sunshine Act), Section 610.021 RSMo. Please review MoDOT's policy and procedure manual on the Sunshine Act before releasing any of the information contained herein.</div>									

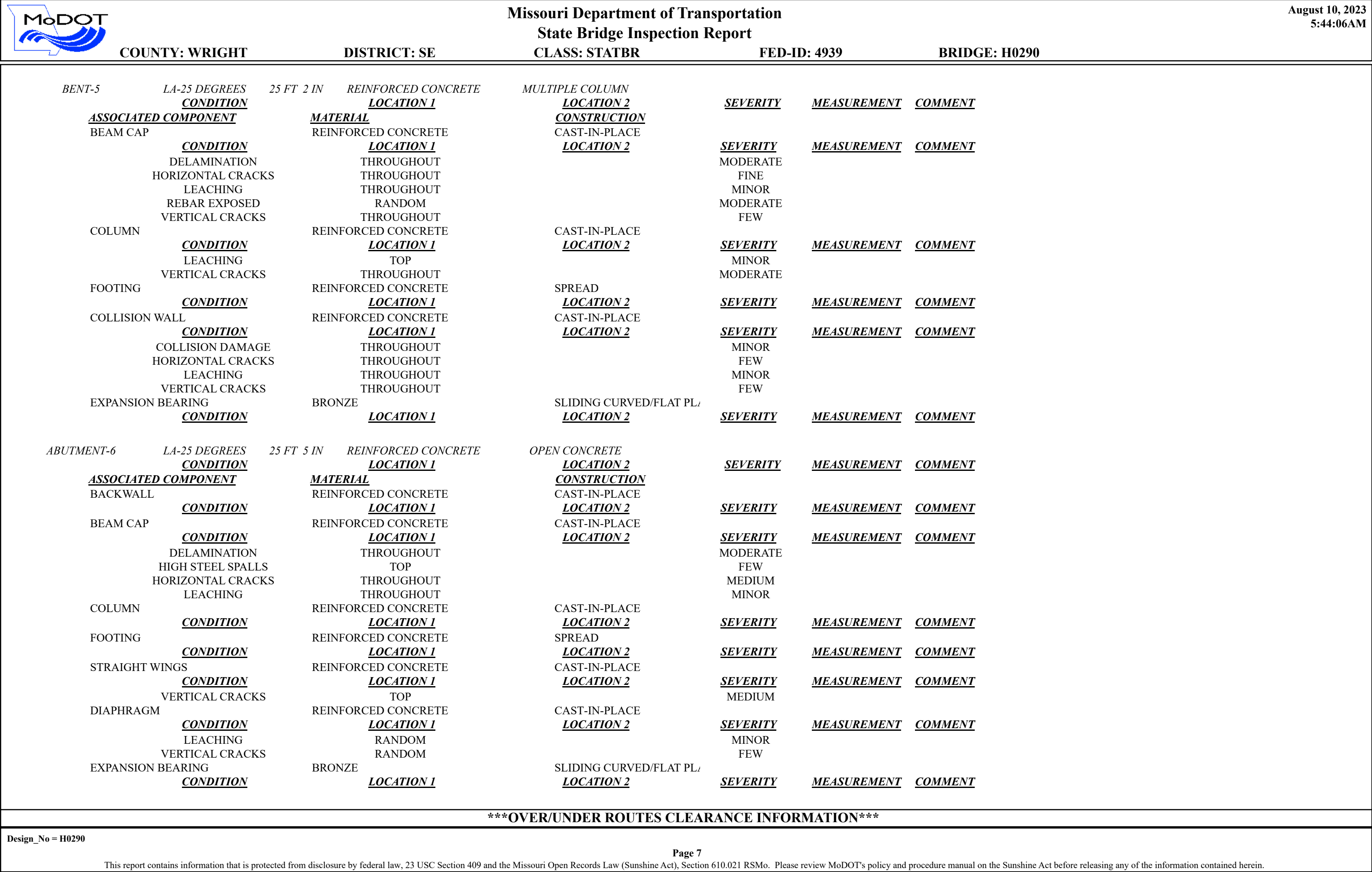
		Missouri Department of Transportation			August 10, 2023	
		State Bridge Inspection Report			5:44:06AM	
COUNTY: WRIGHT		DISTRICT: SE	CLASS: STATBR	FED-ID: 4939	BRIDGE: H0290	
STRUCTURE POSTING						
APPROVED CATEGORY: S-17		CL OF BR AND TRK OVR 11 T 15MPH ON BR EXCPT SNGL E UNT TRKS WT LMT 15 T OTHR TRKS WT LMT 28 T.				
Ton 1: 11		Ton 2: 15	Ton 3: 28			
COMMENTS:						
FIELD CATEGORY: S-17		CL OF BR AND TRK OVR 11 T 15MPH ON BR EXCPT SNGL E UNT TRKS WT LMT 15 T OTHR TRKS				
Ton 1: 11		Ton 2: 15	Ton 3: 28	PROBLEM:	PROBLEM DIRECTION:	
COMMENTS:						
GENERAL COMMENTS/MAJOR RATED ITEMS						
GENERAL COMMENTS: (BOWDEJ1, 08/14/2008)--(22') CONC SOLID SLAB - (37'-37'-37'-37') SMP DECK GDR SPANS						
[ITEM 58] DECK: 4-POOR CONDITION			COMMENTS: (DENNIB1, 02/18/2020)--EDGE DETERIORATION & SATURATION			
RATING : 02/18/2020						
[ITEM 59] SUPER: 4-POOR CONDITION			COMMENTS: (BRAWLK1, 02/28/2022)--MOD COLLISION DAMAGE & DIAGONAL CRACKS			
RATING : 02/18/2020						
[ITEM 60] SUB: 4-POOR CONDITION			COMMENTS: (DENNIB1, 02/18/2020)--VERTICLE CRACKS & SPALLING			
RATING : 02/04/2021						
[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: 6-SATISFACTORY			COMMENTS:			
RATING : 05/18/2001						
RAILING AND APPROACH PAVEMENT COMPONENTS AND RATINGS						
[ITEM 36A] BRIDGE RAILING RATING: DOESNT MEET CURRNT STND-0		RATING : 02/17/2012	COMMENTS:			
<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>DIRECTION</u>	<u>COMMENTS</u>			
REINFORCED CONCRETE	BALUSTER					
REINFORCED CONCRETE	CURB	BOTH				
[ITEM 36B] TRANSITION RAILING RATING: NOT PROVIDED-0		RATING : 05/18/2001	COMMENTS:			
[ITEM 36C] APPROACH RAILING RATING: NOT PROVIDED-0		RATING : 05/18/2001	COMMENTS:			
[ITEM 36D] RAIL END TREATMENT RATING: NOT PROVIDED-0		RATING : 05/18/2001	COMMENTS:			
Design_No = H0290						
Page 2						
This report contains information that is protected from disclosure by federal law, 23 USC Section 409 and the Missouri Open Records Law (Sunshine Act), Section 610.021 RSMo. Please review MoDOT's policy and procedure manual on the Sunshine Act before releasing any of the information contained herein.						


		Missouri Department of Transportation				August 10, 2023	
		State Bridge Inspection Report				5:44:06AM	
COUNTY: WRIGHT		DISTRICT: SE		CLASS: STATBR		FED-ID: 4939	
						BRIDGE: H0290	
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>	
ASPHALT		BITUMINOUS MAT		BOTH		POOR	
DRAINAGE, EXPANSION DEVICES, BANK/SLOPE, AND DECK PROTECTIVE COMPONENTS							
<u>DECK PROTECTIVE COMPONENTS:</u>							
<u>SERIES TYPE-#</u>		<u>COMPONENT</u>		<u>MATERIAL</u>		<u>CONSTRUCTION</u>	
APPROACH SERIES-1		WEARING SURFACE		ASPHALT		BITUMINOUS SEAL COAT	
<u>COMMENT:</u>							
		DECK PROTECTION		NOTAPPLICABLE		NONE	
<u>COMMENT:</u>							
		MEMBRANE		NOTAPPLICABLE		NONE	
<u>COMMENT:</u>							
MAIN SERIES-2		WEARING SURFACE		ASPHALT		BITUMINOUS SEAL COAT	
<u>COMMENT:</u>						POOR	
		DECK PROTECTION		NOTAPPLICABLE		NONE	
<u>COMMENT:</u>							
		MEMBRANE		NOTAPPLICABLE		NONE	
<u>COMMENT:</u>							
<u>DRAINAGE COMPONENTS:</u>							
<u>COMPONENT</u>		<u>MATERIAL</u>		<u>CONSTRUCTION</u>		<u>DIRECTION</u>	
DRAINAGE		REINFORCED CONCRETE		CURB OUTLET			
<u>EXPANSION DEVICE COMPONENTS:</u>							
<u>SUB UNIT-#</u>		<u>SUB LABEL</u>		<u>COMPONENT</u>		<u>MATERIAL</u>	
						<u>CONSTRUCTION</u>	
<u>COMMENT:</u>						<u>GAP</u>	
						<u>YEAR APPLIED</u>	
						<u>MANUFACTURE</u>	
						<u>OVERALL CONDITION</u>	
<u>BANK/SLOPE PROTECTION COMPONENTS:</u>							
<u>COMPONENT</u>		<u>MATERIAL</u>		<u>CONSTRUCTION</u>		<u>DIRECTION</u>	
						<u>COMMENTS</u>	
DECK COMPONENTS							
<u>SPAN TYPE-#</u>		<u>COMPONENT</u>		<u>MATERIAL</u>		<u>CONSTRUCTION</u>	
APPROACH SPANS-1		DECK		REINFORCED CONCRETE		CAST-IN-PLACE	
<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>	
DETERIORATION		EDGE				MODERATE	
SATURATION		RANDOM				MODERATE	
SCALING		THROUGHOUT				HEAVY	
						40 %	
Design_No = H0290							
Page 3							
This report contains information that is protected from disclosure by federal law, 23 USC Section 409 and the Missouri Open Records Law (Sunshine Act), Section 610.021 RSMo. Please review MoDOT's policy and procedure manual on the Sunshine Act before releasing any of the information contained herein.							






			Missouri Department of Transportation				August 10, 2023					
			State Bridge Inspection Report				5:44:06AM					
COUNTY: WRIGHT			DISTRICT: SE		CLASS: STATBR		FED-ID: 4939		BRIDGE: H0290			
COLUMN	DELAMINATION	THROUGHOUT		REINFORCED CONCRETE	CAST-IN-PLACE	MODERATE		<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>		
	HORIZONTAL CRACKS	THROUGHOUT				FINE						
	LEACHING	THROUGHOUT				MINOR						
	VERTICAL CRACKS	THROUGHOUT				FEW						
FOOTING	<u>CONDITION</u>	<u>LOCATION 1</u>		REINFORCED CONCRETE	SPREAD			<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>		
	LEACHING	TOP				MINOR						
	VERTICAL CRACKS	TOP				FEW						
	<u>CONDITION</u>	<u>LOCATION 1</u>										
EXPANSION BEARING	TARPAPER			BRONZE	SLIDING LAYERS			<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>		
	<u>CONDITION</u>	<u>LOCATION 1</u>										
	SLIDING CURVED/FLAT PL											
	<u>CONDITION</u>	<u>LOCATION 1</u>										
BENT-3			LA-25 DEGREES	25 FT 2 IN	REINFORCED CONCRETE	MULTIPLE COLUMN						
<u>ASSOCIATED COMPONENT</u>			<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>		<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>		
COLUMN	BEAM CAP	REINFORCED CONCRETE		REINFORCED CONCRETE	CAST-IN-PLACE			<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>		
	<u>CONDITION</u>	<u>LOCATION 1</u>				<u>LOCATION 2</u>						
	HORIZONTAL CRACKS	THROUGHOUT				FINE						
	LEACHING	THROUGHOUT				MINOR						
FOOTING	VERTICAL CRACKS	THROUGHOUT		REINFORCED CONCRETE	SPREAD	FEW		<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>		
	<u>CONDITION</u>	<u>LOCATION 1</u>				<u>LOCATION 2</u>						
	DELAMINATION	TOP				MODERATE						
	LEACHING	TOP				MINOR						
EXPANSION BEARING	VERTICAL CRACKS	TOP		BRONZE	SLIDING CURVED/FLAT PL	FEW		<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>		
	<u>CONDITION</u>	<u>LOCATION 1</u>				<u>LOCATION 2</u>						
	SLIDING CURVED/FLAT PL											
	<u>CONDITION</u>	<u>LOCATION 1</u>										
BENT-4			LA-25 DEGREES	25 FT 2 IN	REINFORCED CONCRETE	MULTIPLE COLUMN						
<u>ASSOCIATED COMPONENT</u>			<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>		<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>		
COLUMN	BEAM CAP	REINFORCED CONCRETE		REINFORCED CONCRETE	CAST-IN-PLACE			<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>		
	<u>CONDITION</u>	<u>LOCATION 1</u>				<u>LOCATION 2</u>						
	HORIZONTAL CRACKS	THROUGHOUT				FINE						
	LEACHING	THROUGHOUT				MINOR						
FOOTING	SPALLS	ENDS		REINFORCED CONCRETE	SPREAD	MODERATE		<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>		
	VERTICAL CRACKS	THROUGHOUT				FEW						
	<u>CONDITION</u>	<u>LOCATION 1</u>				<u>LOCATION 2</u>						
	LEACHING	TOP				MINOR						
COLLISION WALL	VERTICAL CRACKS	THROUGHOUT		REINFORCED CONCRETE	CAST-IN-PLACE	MODERATE		<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>		
	<u>CONDITION</u>	<u>LOCATION 1</u>				<u>LOCATION 2</u>						
	SLIDING CURVED/FLAT PL											
	<u>CONDITION</u>	<u>LOCATION 1</u>										
EXPANSION BEARING			BRONZE		SLIDING CURVED/FLAT PL							
<u>CONDITION</u>			<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>		<u>MEASUREMENT</u>	<u>COMMENT</u>		
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		<div>Missouri Department of Transportation</div> <div>State Bridge Inspection Report</div>				<div>August 10, 2023</div> <div>5:44:06AM</div>																																						
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
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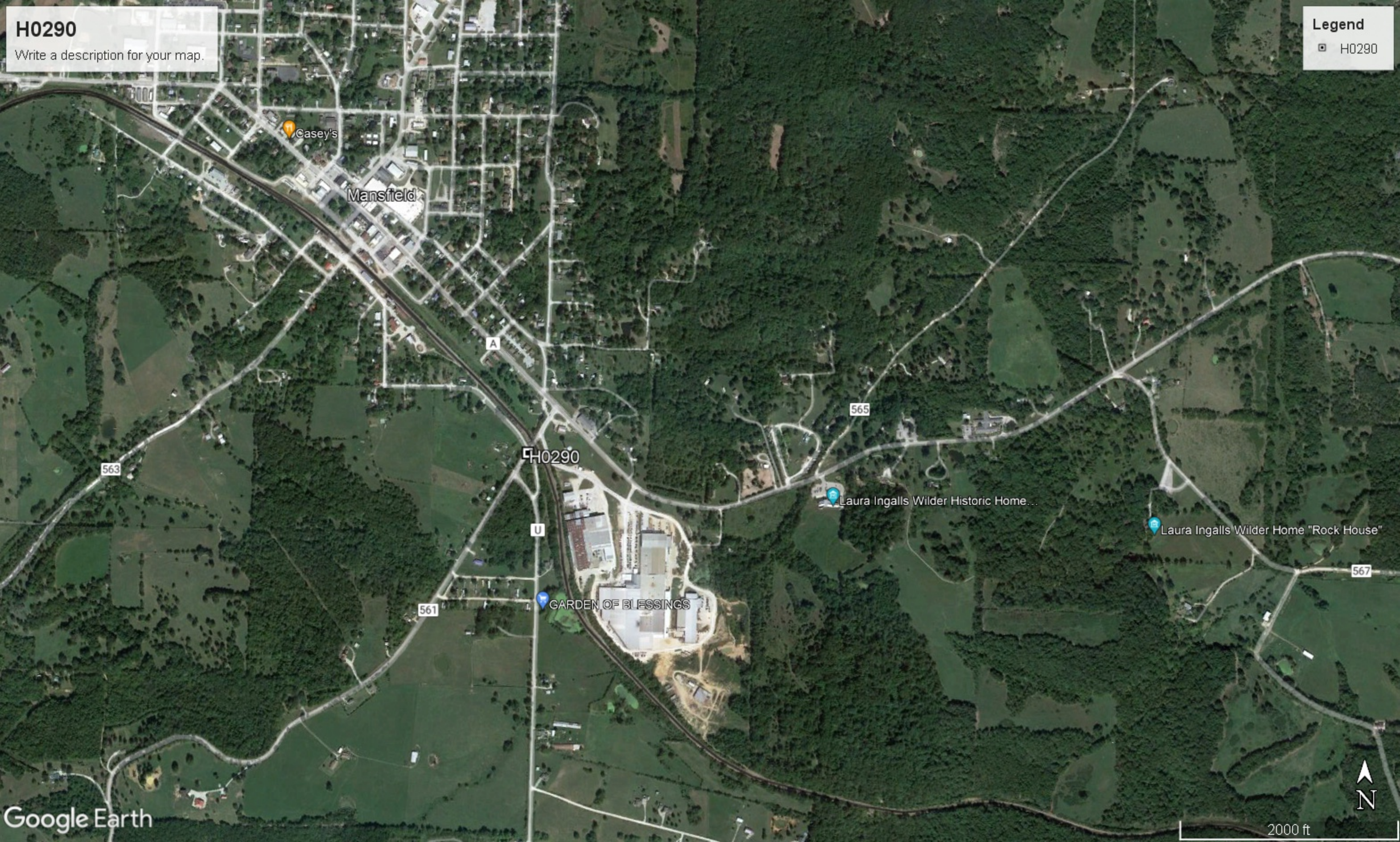
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H0290

Write a description for your map.

Legend

 H0290





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

August 10, 2023
5:47:40am

COUNTY : WRIGHT BRIDGE : H0290 REVIEW STATUS : CONVERTED NBI STATUS : T
RECORD TYPE : ROUTE 'UNDER' STRUCT RUN DATE : 3/6/2023 SUBMITTAL YEAR : 2023

GENERAL STRUCTURE INFORMATION			ROUTE DESIGNATION INFORMATION		
1	State	MISSOURI	5A	Record Type	ROUTE 'UNDER' STRUCT Code : 2
2	District	SE	5B	Route Signing Prefix	CST
3	County	WRIGHT	5C	Designated Level of Service	MAINLINE
8	Federal ID No.	4939	5D	Route Number	00000
27	Year Built	1930	5E	Directional Suffix	NOT APPLICABLE
106	Year Reconstructed	0	7	Facility Carried	RT U S
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	09-RURAL LOCAL
101	Parallel Struc Desg	NONE EXISTS	28A	Lanes on Structure	01
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	MANSFIELD CITY	29	AADT	116
	Code	45740	30	AADT Year	2022
9	Location	S 21 T 28 N R 15 W	102	Direction of Traffic	2-WAY TRAFFIC
11	Milepoint	0.60 miles	109	AADT Truck Percent	9%
16	Latitude	37 D 6 M 1 S	114	Future AADT	
17	Longitude	92 D 34 M 34 S	115	Future AADT Year	
UNDERRECORD INFORMATION			STRUCTURE GEOMETRIC INFORMATION		
6	Features Intersected	CST SOUTH ST	10	Inventory Rte. Vert. Clear	15 Ft. 4 In.
42B	Type of Service Under	HIGHWAY-RAILROAD	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	25 Ft. 11 In.
55B	Rt. Lat Clearance		48	Maximum Span Length	37 Ft. 5 In.
56	Left Lat Clearance		49	Structure Length	172 Ft. 11 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 = H0290 and Inventory_Appraisal_Submittal_Year = 2023



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RECORD TYPE : ROUTE 'UNDER' STRUCT RUN DATE : 3/6/2023 SUBMITTAL YEAR : 2023

LOAD RATING AND POSTING INFORMATION		MATERIAL/CONSTRUCTION INFORMATION	
<div>31</div> Design Load		<div>43A</div> Main Struc. Mat type	CONCRETE
<div>41</div> Structure Status		<div>43B</div> Main struc Constr. Type	TEE BEAM
<div>63</div> Oper. Rating Meth.		<div>45</div> # of Main Spans	
<div>64</div> Operating Rating		<div>44A</div> Appr Struc. Mat type	
<div>65</div> Inventory Rating Meth		<div>44B</div> Appr Struc. Cnstr. type	
<div>66</div> Inventory Rating		<div>46</div> # of Approach Span	
<div>70</div> Bridge Posting Code		<div>107</div> Deck Mat/Constr.	
		<div>108A</div> Wear Surf Mat/Constr.	
		<div>108B</div> Membrane Mat/Constr.	
		<div>108C</div> Deck Protect Mat/Constr.	
PROPOSED IMPROVEMENT INFORMATION		CONDITION RATING INFORMATION	
Sufficiency Rating		<div>58</div> Deck Cond. Rating	
Deficiency Rating		<div>59</div> Superstructure Cond. Rating	
Funding Eligibility		<div>60</div> Substructure Cond. Rating	
<div>75A</div> Proposed Work		<div>61</div> Channel /Channel Protection Cond. Rating	
<div>75B</div> Work Done By		<div>62</div> Culvert Cond. Rating	
<div>76</div> New Struc Length			
<div>94</div> Struc Improve Cost		INSPECTION INFORMATION	
<div>95</div> Roadway Improve Cost		<div>90</div> Gen. Insp Date	
<div>96</div> Total Project Cost		<div>91</div> Gen. Insp. Frequency	
<div>97</div> Year of Cost Estimates		<div>92A</div> Frac. Critical Inspection	
		<div>93A</div> Frac. Critical Insp. Date	
		<div>92B</div> Underwater Inspection	
		<div>93B</div> Underwater Insp. Date	
		<div>92C</div> Special Inspection	
		<div>93C</div> Special Inspection Date	
APPRAISAL RATING INFORMATION		BORDER BRIDGE INFORMATION	
<div>36A</div> Br. Rail App. Rating		<div>98</div> Neighboring State Code	
<div>36B</div> Transition Rail App. Rating		<div>98B</div> Neighboring State % Respon	
<div>36C</div> Approach Rail App. Rating		<div>99</div> Neighboring State Struc. No.	
<div>36D</div> Rail End Treat. App. Rating			
<div>67</div> Struc Eval App. Rating			
<div>68</div> Deck Geometry App. Rating			
<div>69</div> Underclearance App. Rating			
<div>71</div> Waterway Adeq. App. Rating			
<div>72</div> Approach Road App. Rating			
<div>113</div> Scour Assess App. Rating			
APPROVED POSTING INFORMATION		FIELD POSTING INFORMATION	
Approved Posting Category		Field Posting Category	
Ton1 Ton2 Ton3		Ton1 Ton2 Ton3	
Tonnage Values for Posting Sign		Tonnage Values for Posting Sign	
General Text for Posting Sign		General Text for Posting Sign	

Design_No = H0290 and Inventory_Appraisal_Submittal_Year = 2023



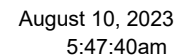
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RECORD TYPE : ROUTE CARRIED 'ON' STRUCT RUN DATE : 3/6/2023 SUBMITTAL YEAR : 2023

GENERAL STRUCTURE INFORMATION			ROUTE DESIGNATION INFORMATION		
1	State	MISSOURI	5A	Record Type	ROUTE CARRIED 'ON' STRUCT
2	District	SE	5B	Route Signing Prefix	MO
3	County	WRIGHT	5C	Designated Level of Service	MAINLINE
8	Federal ID No.	4939	5D	Route Number	0000U
27	Year Built	1930	5E	Directional Suffix	NOT APPLICABLE
106	Year Reconstructed	0	7	Facility Carried	RT U S
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22	Structure Owner	STATE HIGHWAY AGENCY	13B	Subroute No.	
33	Br. Median Code	NO MEDIAN	20	Toll Status	ON FREE ROAD
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103	Temporary Structure	NOT TEMPORARY	100	STRAHNET Designation	RTE NOT A DEFENSE HWY
112	NBIS Bridge Length	YES	104	National Highway System	NOT ON NHS
			105	Federal Lands Highway	NOT APPLICABLE
			110	Designated Nat. Network	NO
STRUCTURE LOCATION INFORMATION			STRUCTURE TRAFFIC INFORMATION		
4	Place	MANSFIELD CITY	29	AADT	388
	Code	45740	30	AADT Year	2022
9	Location	S 21 T 28 N R 15 W	102	Direction of Traffic	ONE LANE BRIDGE FOR 2-WAY
11	Milepoint	0.07 miles	109	AADT Truck Percent	8%
16	Latitude	37 D 6 M 1 S	114	Future AADT	601
17	Longitude	92 D 34 M 34 S	115	Future AADT Year	2042
UNDERRECORD INFORMATION			STRUCTURE GEOMETRIC INFORMATION		
6	Features Intersected	CST SOUTH ST, BNSF RR	10	Inventory Rte. Vert. Clear	99 Ft. 99 In.
42B	Type of Service Under	HIGHWAY-RAILROAD	19	By pass Detour Length	28.13 miles
28B	Lanes Under Structure	02	32	Approach Roadway Width	20 Ft. 0 In.
54A	Vert. Clearance Ref.	HIGHWAY	34	Skew	25.00 Degrees
54B	Vert. Clearance	15 Ft. 4 In.	35	Struct. Flared	NO
55A	Rt. Lat Clear Ref.	HIGHWAY	47	Total Horiz. Clear	20 Ft. 0 In.
55B	Rt. Lat Clearance	2 Ft. 11 In.	48	Maximum Span Length	37 Ft. 5 In.
56	Left Lat Clearance	0 Ft. 0 In.	49	Structure Length	172 Ft. 11 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	20 Ft. 0 In.
111	Nav. Pier Protection		52	Deck Width (Out-Out)	23 Ft. 11 In.
116	Nav. Cl. Vert. Clear		53	Vert. Clearance Over Deck	99 Ft. 99 In.

Design_No = H0290 and Inventory_Appraisal_Submittal_Year = 2023



SCOPE OF SERVICES

Job. No.	J9S3818	J9S3801
Scope	Replace H0290	Replace K0789
Survey	X	X
Preliminary Geotech Report	X	X
Foundation Investigation	X	X
Staking of Sounding Locations	X	X
Preliminary Bridge Design	X	X
Final Bridge PSE	X	X
Preliminary Roadway Design	X	X
ROW Plans	X	X
Final Roadway PSE	X	X
RR Coordination		
Utility Coordination	X	X
Environmental Services		
Construction Administration / Inspection	X	X

The consultant shall perform the following services, all in accordance with the standard practice of the Commission and the following:

AASHTO "A Policy on Geometric Design of Highways and Streets" (latest version)

AASHTO "Roadside Design Guide" (latest version)

AASHTO "LRFD Design methods" (latest version)

AASHTO "Highway Drainage Guidelines" (latest version)

"Manual on Uniform Traffic Control Devices" (latest version)

"Highway Capacity Manual" (latest version)

I Administration

CONSULTANT shall participate in the following as part of the Administration tasks:

1. Attend and document milestone project meetings with MoDOT (CORE Team meetings). Meetings will be held virtually except for the project kick off and final design field check

meetings.

2. Correspondence (emails, letters, meeting minutes, phone calls)
3. Set up the project and conduct Kick-Off Meeting.
4. Coordination with subconsultants.
5. Participate in one Public Meeting. Develop handouts and exhibits for meeting.
6. Provide monthly progress reports and invoices and review subconsultants invoices and reports.
7. Provide exhibits, sketches, and back-up data to MoDOT on an as-needed basis.
8. Provide information to support the SW District MoDOT staff in maintaining a public website for the project staff to inform the public and update impacts related to the project including timelines, changes to the project, meetings, comments. The website to be maintained through the construction phase.

II Surveys

CONSULTANT shall obtain topographic survey information required for the preparation of preliminary, right of way, and final roadway plans including:

1. Perform a thorough review of any existing surveys.
2. Coordinate available survey control and benchmarks with surveyors.
 - a. Translate control and benchmarks into sheet drawings to be used in construction plans, per EPG.
3. Complete remaining topographic surveys to develop preliminary plans, bridge survey, right-of-way plans and final roadway plans, including all improvements and existing topography within the limits of the project. Topographic surveys shall consist of all pertinent topographic features including, but not limited to:
 - a. existing drainage and sanitary structures (pipes, types, flowlines, sizes)
 - b. trees over 4 inches in diameter
 - c. additional existing retaining wall shots and type of wall
 - d. building front elevations and pertinent building features
 - e. pertinent parking lot features
 - f. driveway joints, pavement types and profiles
 - g. existing signal equipment surveys
 - h. drainage swales
 - i. sign posts, size, identification and photo log
 - j. pavement marking type
 - k. miscellaneous roadside identification and photo log
 - l. lighting
 - m. other
4. Field locate visible above ground evidence of utilities located within the project area. "Missouri One Call" and MoDOT will be contacted and a formal request will be submitted for marking the locations of member utilities. In the event that "Missouri One Call" fails to respond, in whole or in part, to the formal request, underground facilities, structures, and utilities will be plotted from surveys and/or available records. The locations of all utilities are to be considered approximate. There may be other utilities, whose existence may not be known at the time of the survey.
5. Coordinate with District Utility Engineer on underground utility one-call locates and have utilities located in identified areas of proposed project.
6. Complete utilities survey and verify completeness and accuracy of utility topographical survey.

7. As-needed punch list surveys due to design updates and/or new development.

CONSULTANT shall perform right-of-way surveys necessary for the preparation of preliminary, right of way and final roadway plans including:

1. Identify at the earliest opportunity, the title reports to be ordered by the COMMISSION. This will be coordinated during the preliminary design phase of the project.
2. Locate existing right of way, property lines and pertinent section lines for the entire project limits.
3. Clearly identify linework in drawing with text (i.e. property lines (PL), section lines, quarter-quarter section lines, existing right-of-way, existing easements, etc.
4. Research impacted parcels. Each of these properties within the project limits shall include property owner name, assessor's map number, last deed book and page, and existing size of parcel in square feet.
5. All property lines shall have a bearing (to the nearest second) and a length (to the nearest hundredth of a foot) shown and the parcel closed within acceptable tolerances governed by the State of Missouri.
6. Incorporate all easements and identified information from the title work into the existing right-of-way drawing.
7. Provide a reference tie drawing with three-point ties.
8. Establish land corner ties.
9. If necessary, the CONSULTANT shall provide a land survey plat that is compliant with the current standards for property boundary surveys to be recorded. The CONSULTANT shall also provide survey plats and legal descriptions as defined in Section 236.4.6 of MoDOT's Engineering Policy Guide.

III Utility Coordination

The CONSULTANT shall perform the following utility coordination tasks:

1. Obtain maps from utilities of their known locations and adjust survey limits as needed.
2. Coordinate submittal of preliminary plans to utility companies.
3. Coordinate with utility companies on the development of the plan of adjustment and obtain cost estimates for reimbursable utilities for the District Utility Engineer's approval.
4. Show the existing utility facilities and plan of adjustments for proposed utilities facilities in the contract plans. (plans sheets, cross sections, culvert sections)
8. Coordinate with utility owner the relocation of each impacted utility on the project during design and construction.
9. Prepare special utility sheets as necessary (including utility profile and exhibits).
10. Assist District Utility Engineer in the preparation of agreements (includes municipal agreements).
11. Identify locations for power service needs, prepare service request for submittal and coordinate with the power company to obtain estimated costs.
12. Coordinate with MoDOT (PM and District Utility Engineer) and to provide SUE test hole information at critical utility locations.
13. Prepare utility job special provision and information for the preparation of the Utility Status Letter for District Utility Engineer.
14. Provide assistance and answer utility related questions during the construction phase for

MoDOT staff and the roadway contractor.

IV Geotechnical Investigations

The CONSULTANT will perform all geotechnical work and provide the Preliminary Geotechnical Report and Foundation Investigation Report in accordance with section 320 of the MoDOT Engineering Policy Guide (EPG). Other chapters may be applicable.

Fertility samples will be collected by the CONSULTANT and sent to MoDOT's Central Laboratory for testing. The COMMISSION will provide the seeding report based on the fertility samples collected.

The CONSULTANT will provide staking for geotechnical boring locations.

1. Perform all geotechnical work necessary for the project including the Preliminary Geotechnical Report and the final bridge soundings.
2. Consultant is responsible for obtaining all necessary permits to perform the work.
3. Produce a preliminary geotechnical report which includes an initial geotechnical investigation of the site including recommended spill slopes. The site work for the preliminary geotechnical work and the final soundings may occur simultaneously.
4. Perform all necessary bridge soundings and testing and incorporate into a Foundation Investigation Report. The report shall include rock core photographs, recommended foundation types, recommended foundation capacities, applicable resistance factors and L-pile parameters for lateral load analysis of driven piles or drilled shafts.
5. All boring holes shall be filled with cuttings.
6. Public utilities shall be notified via Missouri One-Call before drilling begins.
7. The cores shall be handled and labeled following MoDOT procedures.
8. Laboratory testing will be performed to estimate pertinent engineering properties of the soil overburden and soil and rock properties for design. Consultant shall provide staking for boring locations.
9. The CONSULTANT shall provide the following information on their boring logs:
 - a. N value of blows per foot
 - b. N_{60} value of blows per foot (corrected for the energy efficiency of the auto-hammer)
 - c. Energy efficiency of the auto hammer
 - d. Drilling equipment identification

- e. Boring locations (Stations and/or Coordinates, and Elevations with datums)
- 10. The consultant shall provide, at a minimum, a geologist registrant in training (GRIT) or an engineer in training (FE) to log the borings in the field per MoDOT's logging protocol. The engineer or geologist shall have at least 2 years of experience logging boreholes. Logs shall be reported in gINT format. MoDOT will provide preferred gINT templates when requested. At final submittal, please provide a copy of the electronic gINT file, in addition to the final report deliverables.
- 11. The consultant will perform standard penetration testing (SPT) and split-barrel sampling in accordance with ASTM D1586 using an automatic hammer in accordance with section 7.4.1 Method A. The automatic hammers shall be calibrated in accordance with ASTM D4633 at least every 2 years or sooner as required therein. The calibration report shall be prepared in accordance with ASTM D4633 and shall be signed and stamped by a professional engineer.
- 12. A draft copy of the final draft report should be submitted to the MODOT Geotechnical Section for review prior to signing and sealing the report.

V Preliminary Roadway Design

The CONSULTANT'S attention is directed to Chapter 235 of the MoDOT Engineering Policy Guide (EPG) for general guidelines and requirements for preliminary design. Other chapters may be applicable for preliminary design preparation.

- (A) Upon approval of the design criteria memorandum by COMMISSION, the CONSULTANT shall undertake the following to develop the preliminary design phase:
 - a. Prepare preliminary plans, as outlined in the MoDOT EPG.
 - i. The COMMISSION shall furnish the CONSULTANT traffic information for the construction and design years to be used in the preliminary plans.
 - ii. The COMMISSION shall furnish the CONSULTANT the latest accident data and traffic information used to calculate the project accident rate. The COMMISSION shall furnish the CONSULTANT the "statewide accident rate for a similar class of roadway" and any high hazard locations within the project limits.
 - iii. The CONSULTANT shall submit the preliminary plans to the COMMISSION for review and approval as shown in Exhibit IV.
 - b. The preliminary plans shall be prepared in accordance with the applicable sections of the MoDOT EPG, as to what shall be shown thereon, including proposed design features.

- i. The plan view English scale shall be 1"=50' horizontal (or different scale as determined by MoDOT Project Manager for clarity) and extend 100 feet beyond project limits.
 - ii. The profile view English scale shall be 1"=50' horizontal, and 1"=10' vertical.
 - c. The CONSULTANT may have to review preliminary cross sections sufficiently to make a cost comparison between using retaining walls versus acquiring additional right of way for all proposed wall locations.
 - d. The CONSULTANT shall prepare the construction estimate. The COMMISSION shall prepare the right of way estimate based on the right of way requirements furnished by the CONSULTANT.
 - e. The preliminary plans shall be submitted to the COMMISSION for review and approval. A letter of transmittal shall be provided with the preliminary plan submittal. The COMMISSION shall furnish the template for the letter of transmittal. The construction cost estimate shall also be submitted with the preliminary plans.
 - f. The preliminary plans shall include the tentative additional easement and right of way limits, property lines and ownerships, section lines, township and ranges, any U.S. Surveys, city limits, and a general outline of the construction staging, critical design items and other items as outlined in the EPG.
 - g. Traffic assignments shall be shown on the respective roadways or on a line sketch of the roadways.
 - h. Typical sections shall indicate heavy, medium or light duty pavement for new roadways, along with descriptions of the existing roadway types remaining in place.
- (B) A Preliminary Field Check will be arranged by the CONSULTANT with the COMMISSION to discuss design features in the project area.
- (C) The CONSULTANT shall provide the COMMISSION with information for proper environmental and cultural clearance including submittal of the preliminary stage RES, right of way stage RES (if needed) and final stage RES. Items that may need to be addressed include historical buildings, archaeological sites, historic bridges, conversion of farmland, endangered species, wetlands, parklands and historical sites.
- (D) The CONSULTANT shall prepare and submit the Bridge Survey Report, Bridge Survey Sheets, and Bridge Survey Checklist.
- (E) The CONSULTANT shall set horizontal and vertical control for the project and provide the COMMISSION the combined adjustment factor. All control furnished by the CONSULTANT shall use current datums and adjustments.

- (F) The CONSULTANT shall provide all land boundary work and legal descriptions to the COMMISSION for review and approval prior to right of way plans submittal.
- (G) The COMMISSION shall provide the pavement design and general Job Special Provisions related to the project including any special design elements.
- (H) The COMMISSION may hold a public meeting for this project either in person or virtually and the CONSULTANT will be required to attend and coordinate meeting. The CONSULTANT shall provide exhibits for MoDOT public meeting as requested and will refer to the sections of the EPG concerning public involvement.

VI Preliminary Bridge Design

- (A) Perform the geometric analysis at the proposed bridge site necessary to develop type, size and location drawings consisting of a general plan and elevation plan of the structures, typical roadway sections and roadway profiles. This includes preparation of the Bridge Memorandum & Layout (including the itemized preliminary bridge estimate).
- (B) The structure and/or box culvert type and size (if applicable) shall be based on roadway alignments, geometric analysis, hydraulic analysis (if applicable), spill slope requirements, roadway overpass clearances, grades and/or clear zone requirements.
- (C) The superstructure type shall be dependent upon site constraints and a detailed cost analysis comparison.
- (D) All requirements of the Federal Emergency Management Agency's National Flood Insurance Program shall be met.
- (E) Discharges will be estimated using USGS Regression Equations and available stream gauge data (if applicable).
- (F) HEC-RAS shall be used to model of the natural, existing and proposed conditions (if applicable).
- (G) Scour calculations shall be performed in accordance with FHWA Hydraulic Engineering Circular No. 18 (if applicable).
- (H) The results of the hydrologic, hydraulic and scour analysis shall be documented in the Bridge Hydraulic and Scour Report (if applicable).
- (I) All requirements outlined in the MoDOT Engineering Policy Guide (EPG) shall be met. The CONSULTANT shall follow MoDOT's "practical design" philosophy and submit any design exceptions as necessary.

- (J) Develop final detailed design criteria in the form of Bridge Memorandum and Bridge Design Layout documents.

VII Section 404 Corps of Engineers Permit (if applicable)

The CONSULTANT shall provide the following information necessary to allow MoDOT staff to apply for any required Section 404 Corps of Engineer Permits. If the permit is required due to bridge construction, the application data shall be submitted no later than with the T.S.&L. drawings. All information should be provided to the MoDOT Project Manager who will forward the information to Central Office Design.

- (A) Provide the amount and type of excavation and material that will be used in streams, lakes, and wetlands below the Corps of Engineers' ordinary high water line (OHL) elevations.
- (B) Provide location and quantities of permanent berms and spill fills below OHL.
 - a. Earth fill, rock blanket (square feet and cubic yards)
 - b. Rock blanket along right descending bank and left descending bank (linear feet)
 - c. Rock ditch (square feet)
- (C) Provide location, excavation and size of pier below OHL.
 - a. Excavation (cubic yards)
 - b. Pier (square feet)
- (D) Provide channel realignment data.
 - a. Existing channel length of section to be modified (feet)
 - b. Average channel width of section to be modified (feet)
 - c. Realigned section, length and width (feet)
- (E) Provide temporary fill amounts in wetlands or below OHL in streams.
 - a. Earth fill (square feet and cubic yards)
 - b. Class C (square feet and cubic yards)
- (F) Provide information about temporary fills and shoring.
 - a. Location of temporary fills and shoring
 - b. Source of material
 - c. Final disposition of removed materials
- (G) Provide information about temporary culverts.
 - a. Number of culverts
 - b. Size (inches)
 - c. Length (feet)
- (H) Provide information on channel cleanout – excavation below OHL.
 - a. Cleanout upstream and downstream of structure (linear feet)
 - b. Total quantity of material to be removed below OHL (square feet and cubic yards)
- (I) Provide 8 ½-inch by 11-inch copies of any plan or profile sheets required for the permit application.
- (J) Provide bridge elevation and plan views with OHL indicated.

VIII Right of Way Design

- (A) The CONSULTANT shall prepare right of way plans, which may be separate drawings from those used for design and construction details. The right of way plans shall show alignment, geometric design, removal of improvements, drainage facilities, property lines and ownership, sub-division lot lines, other land survey information, street lines and existing right of way and easements. The CONSULTANT should also include any plan details, which will require additional right of way or permanent, temporary or utility easements during the construction phase of the project such as bypasses, temporary erosion control, etc. Right of way plans include title sheet, typical sections, profile sheets, and cross sections of the roadway, entrances and side roads. Areas of new right of way, permanent easements and/or temporary easements required from each individual property owner may be shown in tabular form on the respective sheets.
- a. The CONSULTANT shall finalize any previous review of the roadway cross sections sufficiently to determine the feasibility of constructing retaining walls versus obtaining additional right of way. This final review shall consist of construction estimates versus right of way estimates.
 - b. Upon completion of the estimates by COMMISSION and CONSULTANT, the CONSULTANT shall recommend to the COMMISSION a choice at the various locations which warrant consideration of the alternate retaining wall versus right of way solutions. The COMMISSION shall make the final determination of purchasing right of way, or constructing retaining walls.
- (B) Right of way plans shall be submitted to the COMMISSION for review and approval. The right of way plans shall be at the same scale as the construction plans. The right of way plans shall include any design details that will control the width of right of way and necessary easements.
- a. New right of way lines and all easements shall be dimensioned by station and offset distance from the centerline, or crossroad centerlines, if necessary. Bearings and distances on the right of way lines may be required.
 - b. The following minimum design features shall be included on the right of way plans:
 - i. Title sheet with appropriate project limits, access note and traffic data completed.
 - ii. Typical Sections
 - iii. Cross sections at 100' intervals, including additional sections at each entrance with new and existing entrance grades.
 - iv. Construction limits (slope lines); drainage facilities; entrances and their reference location, width and type along with their existing and future grade percentage; property owners, with areas of new right of way, easements and remaining property; centerline bearing, ties to legal land

corners from centerline stations with notation for corner witness by a registered land surveyor; existing utility locations and easements, including replacement utility easements; horizontal curvature information; and proper right of way symbolization for new right of way (access control) and easements, including areas which may be required to accommodate temporary erosion control.

- v. Township, Range, Section and/or U.S. Survey information broken down to ¼ ¼ section line level on each plan sheet near the title block or appropriate survey/section line.

- (C) The CONSULTANT shall provide an updated construction estimate for the Right of Way design stage.
- (D) The COMMISSION shall review, approve and certify the right of way plans as completed by the CONSULTANT. The CONSULTANT shall provide one (1) electronic set of fully signed and sealed right of way plans, for the COMMISSION'S use.
- (E) The CONSULTANT shall provide title insurance information for all parcels with new right of way acquisition and the last deed of record for any parcel with easements.
- (F) The COMMISSION will prepare right of way appraisals and secure the necessary right of way by negotiation or condemnation, if necessary, for construction of this project.
- (G) The CONSULTANT shall be responsible for staking and re-staking tentative right of way on individual properties, as required by MoDOT staff, during right of way negotiation and acquisition phase of the project. The CONSULTANT shall also set permanent monuments as shown on the recordable land survey.
- (H) The CONSULTANT shall be responsible for making all revisions to the right of way and construction plans due to negotiations with the property owners in an effort to acquire right of way.
- (I) The CONSULTANT shall write, sign and seal deed descriptions for all right of way acquisitions on MoDOT's approved Exhibit A form and submit to COMMISSION.
- (J) The CONSULTANT will provide the COMMISSION with information for proper environmental and cultural clearance including submittal of the Right of Way stage RES. Items that may need to be addressed include historical buildings, archaeological sites, historic bridges, conversion of farmland, endangered species, wetlands, parklands and historical sites.

IX Final Roadway Design

- (A) The COMMISSION will secure execution of municipal agreements with the cities and/or county agreements. A copy of the executed agreements will be furnished to the

CONSULTANT for his information. The CONSULTANT shall conform to all design provisions of these agreements.

- (B) A final design field check shall be held with CONSULTANT and COMMISSION representatives prior to completing final design plan quantities. The CONSULTANT shall make any necessary revisions to the final plans as determined by this design field check.
- (C) The CONSULTANT shall prepare detailed temporary erosion control plans for review and approval before inclusion in the final design plans. The CONSULTANT will submit a Final Plans stage RES and help ensure previous RES items have been addressed.
- (D) The CONSULTANT shall prepare computations for all design plan quantities. All plan quantities shall be shown on the Quantity Sheets, by construction stage, if applicable. The format for these sheets shall be furnished by the COMMISSION. Specialty items may have separate sheets for quantity tabulations.
- (E) The CONSULTANT shall prepare for review and approval by the COMMISSION all General Job Special Provisions, which are to supersede the Missouri Standard Specification for Highway Construction. A brief reason for the deviation from the standard plans and specifications should also be provided. The CONSULTANT shall prepare only Job Special Provisions related to design elements shown in the plans.
- (F) The following list shall be considered the minimum requirements for a complete set of Final Design Plans.
 - a. Title Sheet
 - b. Typical Sections
 - c. Quantity Sheets
 - d. Plan Sheets at 1"=50' horizontal (or different scale as determined by MoDOT Project Manager for clarity). Plan sheets shall include all necessary adjustments to signing and proposed pavement marking.
 - e. Profile Sheets at 1"=50' horizontal and 1"=10' vertical
 - f. Culvert Sections at 1"=10', if needed
 - g. Special Sheets for geometrics, referenced points, grading plan, traffic control plan, temporary erosion control plan and any other sheets for special design features.
 - h. Earthwork Quantities, Cross Sections at 25' intervals, 1"=10' (1:100), horizontal and vertical, including entrance sections with existing and proposed grades
 - i. Tabulation of Quantity Sheets
 - j. Job Special Provisions in electronic format readable in COMMISSION'S current word processor
 - k. File with the bid items and quantities as generated by COMMISSION'S Estimate Program

- l. Construction Workday Study
- m. Transportation Management Plan
- n. Final Plans Checklist Form D-12

(G) Additional plans and information may be required to complete the Final Design Plans. With the submittal of the Final Design the CONSULTANT shall also provide the COMMISSION a statement that an internal quality control check has been conducted and to the best of the CONSULTANT'S knowledge the final design plans are free of gross errors, misleading or confusing typos, and includes adequate information to construct the project.

(H) The CONSULTANT shall prepare all plans through the use of a Computer Aided Drafting (CAD) program. The CONSULTANT shall conform to MoDOT's Specifications for Computer Deliverable Contract Plans as referenced in the MoDOT EPG.

(I) The CONSULTANT shall furnish the COMMISSION the following completed sheets and documents, as applicable, for each separate construction project included in this contract, as follows:

- a. Final Design Plans showing profile grades, geometric data, alignment data, etc.
- b. One (1) electronic copy of the location sketch for Commission Approval submitted in electronic format.
- c. Draft copy of the job special provisions related to design elements for review. After corrections, the job special provisions shall be furnished in electronic format utilizing the COMMISSION'S latest word processing program.
- d. One (1) legible electronic copy of engineering calculations and analysis.
- e. One (1) electronic copy of a complete summary of quantities and estimate of construction costs. The estimate shall be prepared using the latest version of MoDOT's ESTIMATE program.
- f. One (1) electronic copy of Electronic Design Data.
- g. One (1) electronic copy of a workday study showing the estimated number of workdays required to construct each project.
- h. The CONSULTANT shall provide a 3D model of the project exported from Geopak Open Roads Designer software for the COMMISSION'S use.

X Final Bridge Design

Furnish to the COMMISSION fully checked design plans, job special provisions, design computations, quantity computations, final cost estimate, and a construction workday study for the structure(s). The CONSULTANT is expected to make the COMMISSION aware of more economical design alternatives that may become apparent during the preparation of the final design.

(A) The plans shall be complete and shall cover all parts of the structure they represent. The degree of detail shall be comparable to that furnished on typical plans prepared by

the COMMISSION. High resolution final signed and sealed plans, will be submitted in Adobe Acrobat Reader format version 7 or higher. Final signed and sealed plans shall be in pdf full size (34" x 22") format. These deliverables shall use the file naming convention and be in accordance with the "Specifications of Computer Deliverable Contract Plans" requirement outlined in the Commission's Engineering Policy Guide, Section 237.13.3. The electronic plans in Microstation format cannot be signed and sealed. The electronic submittals shall be made in a method suitable to MoDOT.

- (B) All construction changes made to the plans during construction of the project shall also be submitted electronically in Adobe Acrobat and Microstation format.
- (C) The job special provisions shall be complete and describe all design features, construction procedures, or material requirements in the plans that are deviations from the latest edition of the Missouri Standard Plans for Highway Construction. Typical job special provisions that have been developed by MoDOT for previous jobs are posted on MoDOT's website and are available for use and modification as needed. The job special provisions shall include a table of contents sheet that is signed and sealed by a professional engineer registered in Missouri. The signed and sealed job special provisions shall also be submitted in Adobe Acrobat Reader format, version 7 or higher. Job Special Provisions shall also be submitted in Microstation Word format. The submittal letter shall explain the need for each provision.
- (D) The design computations and plans shall be acceptable to and will become the property of the Commission. The CONSULTANT shall submit design computations in Adobe Acrobat Reader version 7.0 format or greater. The files shall be transferred in a manner acceptable to MoDOT. The design computations shall contain an index file, with electronic links to the files contained within. Submittals shall include a set of design computations for each bridge. The design computations shall not be combined with the Microstation or the Adobe Acrobat Reader submittals.
- (E) The final estimate submitted by the CONSULTANT shall include backup material that supports the estimates made for non-standard or lump sum pay items.
- (F) The CONSULTANT shall submit the hours and cost summarizing the design effort for each bridge. The summary shall include separate amounts for: Number of Hours for Bridge Preliminary Design, Cost of Bridge Preliminary Design, Number of Hours for Bridge Final Design, Cost of Bridge Final Design. Generally, the above amounts should include all hours and costs invoiced that are attributable to bridge design and plans preparation up to the point of turning in the signed and sealed plans. It should not include hours attributable to preparing the bridge survey, final construction cost estimate, or workday study.
- (G) Bridge Load Rating: The CONSULTANT shall furnish to the COMMISSION fully checked load ratings for the structure(s) in accordance with EPG Section 753.15. The load rating

files shall be acceptable to, and will become the property of, the COMMISSION. The CONSULTANT shall submit the load ratings in an acceptable electronic format (.xml or other approved method) created using AASHTOWare BrR Bridge Rating software version 6.8 or higher. The CONSULTANT shall verify the accuracy of any load rating files provided by the COMMISSION prior to making modifications.

XI Construction Support

- (A) The CONSULTANT shall be available to the COMMISSION to discuss and interpret plans and specifications during the bidding and construction phase of the project as determined necessary by the Engineer.
- (B) The CONSULTANT shall be available to provide Shop Drawing review of CONTRACTOR submittals pertaining to essential structural components and review any contractor's Value Engineering Proposals.
- (C) The CONSULTANT may be required to attend a pre-construction meeting, and a post construction meeting via TEAMS.
- (D) If issues arise during construction, there will be a direct line of communication established between the MoDOT Construction Office and the CONSULTANT. The CONSULTANT will immediately inform the MoDOT Design Division or MoDOT Bridge Division of any recommendations or clarifications made to the Construction Office.

XII Resident Engineer and Construction Inspection

The Consultant shall provide qualified personnel to assist the Commission with inspection, testing and administration. This assistance will require at a minimum of one individual for Resident Engineer oversight and another individual for inspection.

Consultant services shall be in accordance with the standard practices of the Commission as conveyed to the Consultant by the Commission.

1. The Consultant's Representative shall supervise all the activities of all personnel furnished by the Consultant. The Consultant's Representative will report and be directly responsible to the Consultant Resident Engineer.
2. An inspector shall be present on site whenever work is being performed by the contractor, except during periods of extended delay or stoppage unless otherwise directed by the Engineer. The Consultant shall endeavor to maintain continuity of personnel on the inspection staff to minimize disruption of the Consultant's services. The Consultant shall provide inspectors that are qualified to perform the services and provide complete documentation of the time spent by each inspector performing the services.
3. Consultant staff shall be Advanced Work Zone Certified and demonstrate good knowledge of proper traffic control implementation and flagger operations.

4. Consultant staff shall perform on site Quality Assurance material testing and be properly certified through MoDOT's Technician Certification Program. Certification that is required are Concrete Field, Concrete Strength, and Aggregate Technician. QA testing frequency per MoDOT's ITP. Testing to include concrete air, slump and cylinders, concrete compressive strength, and nuclear density of aggregate base and earthwork. A proctor for soil density will need to be completed. Gradations for concrete and base rock will need to be completed per the ITP for QA testing.
5. Consultant staff shall check contractor surveying for the construction of the roadway. These checks include but not limited to roadway alignment, aggregate placement, earthwork placement, and ditch location layouts.
6. QC testing will be completed by contractor or contractor hired services. All material testing submitted by the contractor or contractor hired service will need to be compared to QA testing and approved in ASSHTOWare.
7. Consultant Resident Engineer / Inspector shall additionally comply with the Job Special Provisions for Protection of BNSF Railway Company Interests. As a part of those responsibilities, the consultant shall perform the following:

The Consultant's Personnel shall obtain all necessary training, certification and approvals required by BNSF to work within their right of way.

The Consultant's Resident Engineer and Representative shall be responsible for all communication with BNSF Railway and BNSF's Inspector/Coordinator as required. This includes management of the contractor's Railroad permits, submittals, approvals and other required correspondence with the Railroad's Inspector/Coordinator. This also includes the facilitation of PreConstruction and routine meetings with the Consultant, Contractor, BNSF Railway and the Inspector/Coordinator.

The Consultant shall ensure that all Contractor's activities on Railroad Right of Way are performed with BNSF approval. This includes but is not limited to obtaining the appropriate approvals and clearances and coordinating all necessary BNSF Flagging.

8. Consultant staff will be required to pass a background check performed by MoDOT administrative staff. This requirement can be waived if previously completed on other MoDOT projects and will only apply to any staff that has not been added to MoDOT's system.
9. Inspectors shall perform duties to comply with MoDOT's Engineering Policy Guide, Standard Specifications for Highway Construction, MoDOT standards, the Manual on Uniform Traffic Control Devices and other related contract materials. During the performance of these services, the Consultant shall comply with applicable federal, state and local laws, rules, regulations and ordinances of the U.S. Environmental Protection Agency (EPA), the Occupational Safety and Health Administration (OSHA), the Missouri Department of Natural Resources (MDNR), and other regulatory authorities with jurisdiction over the project.

10. Provide appropriate PPE for Consultant staff to be worn at all times while working within Commission Rights of Way includes Class 2 or Class 3 Vest or Apparel, high vis hardhat with 10 square inches of reflective tape, safety shoes and safety eyewear.
11. Attend meetings and various contractor and MoDOT internal meetings throughout the course of the construction work.
12. Prepare and document all "order Records", "Change Orders", "Pay Estimates", material reporting, daily work reports and all other project related correspondence for review and approval as requested by the Resident Engineer. Pay estimates to be submitted in accordance with MoDOT pay estimate schedule.
13. Manage construction records using AASHTOWare Project software and or/ Mobile Inspector application.
14. Provide and maintain communication devices to keep in contact with Contractor and Engineer.
15. Provide and maintain all necessary computer equipment necessary for completion of the work. Consultant staff must have active email address for correspondence with Engineer.
16. Provide and maintain vehicle for Consultant staff equipped with revolving warning light meeting MoDOT specifications.
17. Enforce contract requirements and specifications with the contractors to ensure quality workmanship and timely completion of the work. When Consultant inspector determines the Contractor's work is deviating from the contract requirements, the Consultant shall direct the Contractor to take corrective action. If differences in the interpretation of the contract requirements or specifications arise with the Contractor, the Consultant shall refer the matter to the Engineer immediately. All failing testing will need to be documented and MoDOT Engineer along with the contractor will need to be notified as soon as practically possible.
18. Provide final record drawings and assist with completion of final plans package.
19. Conduct wage rate interviews, Commercial Useful Function reviews, bulletin board inspections, traffic control inspections, etc. as required by the project and directed by the Engineer.
20. Consultant shall document Contractor work progress, and weather delays. At Engineers request, the Consultant shall provide verbal or written reports to the engineer regarding Contractor's performance, progress and compliance with contract documents.
21. Notify Engineer when lane closures are in place and removed from roadway.
22. Notify MoDOT engineer if quantities deviate from plan.
23. The Consultant shall perform the weekly storm water data entry and all entries for rain events. This will need to be started once 1 acre or greater has been disturbed and reports will need to be entered until all erosion control items have been removed after final seed acceptance.
24. The Consultant shall check all payroll submitted by the Prime and Subcontractor. The Consultant Resident Engineer will review and sign all approved subcontracts for the project.

The Commission, the Engineer or other Commission representatives will have the following responsibilities:

1. Make available to the Consultant the necessary plans, forms, specifications, copy of the contract and other documents to permit the Consultant to perform the prescribed duties.
2. All off site inspections including concrete, steel, aggregates, signs and all other materials customarily tested and inspected off site by the Engineer.
3. Shop drawing review.
4. Resolve and decide differences in interpretation of the contract requirements between the Consultant and Contractor.
5. AASHTOWare Project Training if needed.
6. Approve change orders and pay estimates.

SERVICES PROVIDED BY THE COMMISSION

The Commission will furnish to the Consultant without charge the following information:

- A. General design criteria.
- B. Available standard detail sheets in Microstation format.
- C. Bridge Survey
- D. Traffic and accident data.
- E. Pavement Design Selection
- F. All necessary environment services identified through the Request for Environmental Services
- G. Right of way and easement acquisition.

The Consultant shall proceed with the final design and detail plans in accordance with the data approved or furnished by the Commission which will meet with the general standards adopted by AASHTO and approved by the Department of Transportation as provided by Title 23, United States Code, Section 109(b).

PERIOD OF SERVICE

The Consultant shall make submittals in accordance with the schedule described below.

Preliminary Stage Request for Environmental Services by December 8, 2023

Preliminary Road Plans by February 15, 2024

Bridge Memo by February 15, 2024

RR TSL Drawings February 15, 2024

Right of Way Stage Request for Environmental Services by February 15, 2024

Right of Way Plans by March 1, 2024

Type Size and Location Bridge Drawings June 3, 2024

Public Meeting Exhibits by June 3, 2024

Final Stage Request for Environmental Services by July 1, 2025

100% Review Plans by August 25, 2025

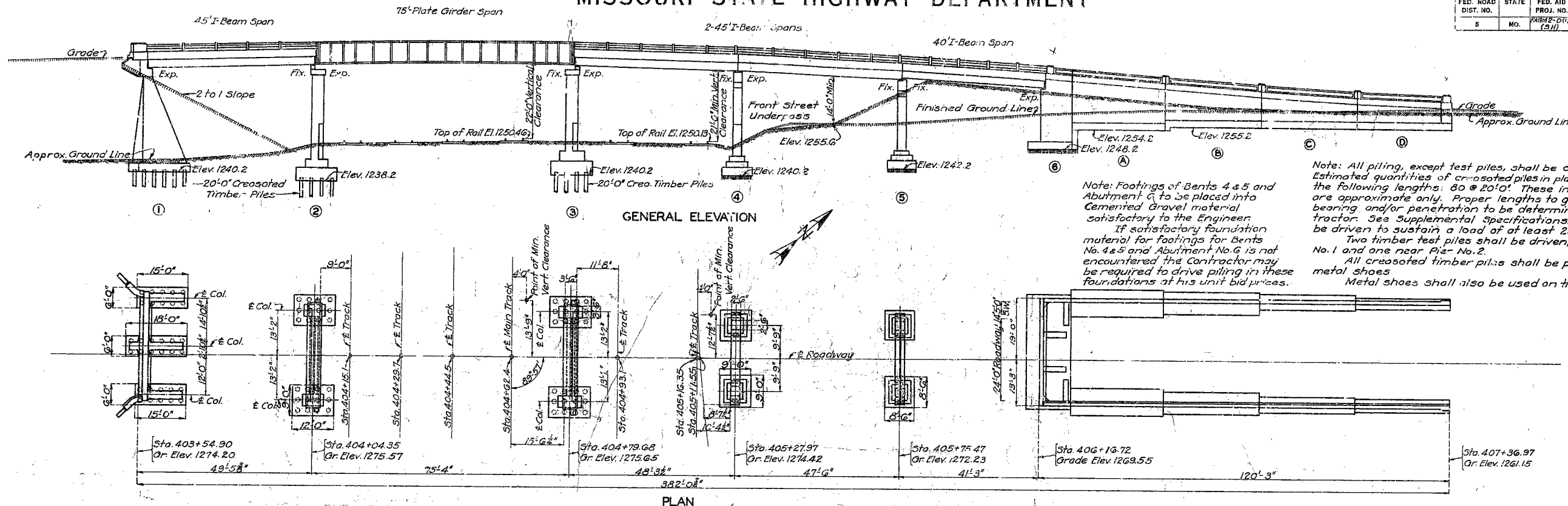
Construction Engineering / Construction Inspection as needed post award

Final Signed and Sealed Bridge Plans and Roadway Plans, Job Special Provisions,
Final Construction Estimate, Working Day Study, D-12 Form and remaining PS&E documents
October 1, 2025 for a December 2025 letting

PERIOD OF SERVICE – The total period of service, including construction services, is
expected to be completed by April 1, 2028.

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	PA6M 2-D(1) (SH)	19		



Note: Footings of Bents 4 & 5 and Abutment 6 to be placed into Cemented Gravel material satisfactory to the Engineer. If satisfactory foundation material for footings for Bents No. 4 & 5 and Abutment No. 6 is not encountered the Contractor may be required to drive piling in these foundations at his unit bid prices.

Note: All piling, except test piles, shall be creosoted timber. Estimated quantities of creosoted piling in place are based on the following lengths: 80 @ 20'-0". These indicated lengths are approximate only. Proper lengths to give required bearing and/or penetration to be determined by the Contractor. See Supplemental Specifications. All piling shall be driven to sustain a load of at least 23 tons per pile. Two timber test piles shall be driven; one near Bent No. 1 and one near Pier No. 2. All creosoted timber piles shall be provided with metal shoes. Metal shoes shall also be used on the two test piles.

GENERAL NOTES:

Design Specifications A. A. S. H. O. - 1935
 Loading H-15 A. A. S. H. O.
 Structural Steel Stress 18,000 lbs./sq. in.
 Reinforcing Steel Stress 18,000 lbs./sq. in.
 Concrete Class "B" 3000 lbs./sq. in.
 All concrete shall be Class "B".
 Exposed edges shall be beveled $\frac{1}{4}$ " where no other bevel is noted.
 Bar supports and spacers will be required for reinforcing steel in superstructure. See Standard C-110R1.
 Top of concrete in both sides and front wall of Abutment No. 6 to be kept at same level throughout pouring.
 All concrete shall be proportioned by the weight proportioning method.
 Floor slab for each span shall be constructed full width and length at one operation. No longitudinal or transverse construction joints will be permitted except as shown.
 Excavation for structure shall be in accordance with Specification 1 of Standard and Supplemental Specifications.
 Detail shop drawings for all structural steel, wrought iron, cast steel and cast iron shall be submitted to the State Highway Department in duplicate and shall be approved before material is ordered or work started.
 Beam flanges shall be squared up at all points of bearing.
 The welding symbols used on these plans are the 1937 symbols of the American Welding Society.
 Qualification of all welding operators and electrodes will be required in accordance with Specifications, except that a proper certification of electrodes previously qualified will be acceptable.
 Rivets $\frac{3}{4}$ " holes $\frac{3}{4}$ " except as noted. Handrail rivets $\frac{3}{8}$ " holes $\frac{3}{8}$ ". Field connections for handrail channels and bars shall be $\frac{3}{8}$ " machine bolts, holes $\frac{3}{8}$ ". All other field connections riveted except as noted. Washers shall be used as noted and under nuts of all turned bolts.
 Paint: Shop, none; Field, contact surfaces of bolted field connections one coat of red lead and surfaces inaccessible after erection three coats of red lead. No other paint to be applied by Contractor. Red lead required shall be furnished by the Contractor. Payment for cleaning and painting such surfaces will be included in unit price bid for structural steel. No paint required on the galvanized material of handrail.
 Where rubber compound is specified on plans for use in partition or expansion joints, the pre-molded joint shall be securely stitched to one face of concrete with copper wire.
 A minimum vertical clearance of 20'-0" from top of rails and a minimum lateral clearance of 8'-0" from centerline of tracks adjacent to Pier No. 2 and Bent No. 4 shall be maintained during construction. Minimum lateral clearances on all other tracks shall be 8'-0" from centerline of tracks.
 See Special Provisions relative to required shoring of excavation for Piers No. 2, 3 and 4.
 Existing fill shall be removed on North End of Bridge as indicated on road plans.

ESTIMATED QUANTITIES

Item	Substr.	Superstr.	Total
Class I Excavation for Structures	Cu. Yds. 1590		1590
Class "B" Concrete (Handrail)	Cu. Yds. 22.2		22.2
Class "B" Concrete	Cu. Yds. 633.4	254.7	888.1
Fabricated Struct. Steel (I-Beams)	Lbs. 90000		90000
Fabricated Struct. Steel (I-Beams)	Lbs. 141,500		141,500
Steel Castings	Lbs. 1810		1810
Gray Iron Alloy Castings	Lbs. 2360		2360
Reinforcing Steel	Lbs. 53,930	51,070	105,000
Creosoted Timber Piles in Place	Lin. Ft. 2000		2000
Timber Test Piles	Lin. Ft. 60		60
26" Struct. Steel Handrail	Lin. Ft. 186		186
37" Struct. Steel Handrail	Lin. Ft. 262		262
Conduit System	Lump Sum		
12" Corrugated Perforated Metal Pipe	Lin. Ft. 254		254
Wrought Iron Blast Plates	Lbs. 21,000		21,000
Porous Backfill	Cu. Yds. 135		135

Note: All excavation for bridge will be paid for as Class I Excavation for Structures.
 Estimated quantity of creosoted timber piling includes 5 linear feet of pile in place for each metal shoe specified.

U.S.G.S. B.M. #48-1928 Elevation 1253.19 56' S.E. of Viaduct.
 69' Rt. of Sta. 405+57.9.

BRIDGE OVER ST. L. - S.F. R.R. TRACKS

STATE ROAD FROM DOUGLAS CO. LINE TO WILLOW SPRINGS

AT WILLOW SPRINGS

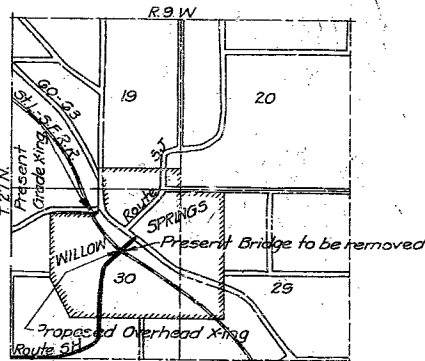
PROJECT NO. FAGM 2-D(1) (SH) STA. 403+54.90

HOWELL COUNTY

SUBMITTED BY *N.R. Lacy* DATE 9/26/39
 APPROVED BY *W.B. Brown* DATE 9/26/39
 BRIDGE ENGINEER
 CHIEF ENGINEER

STD. C110R1

K-789



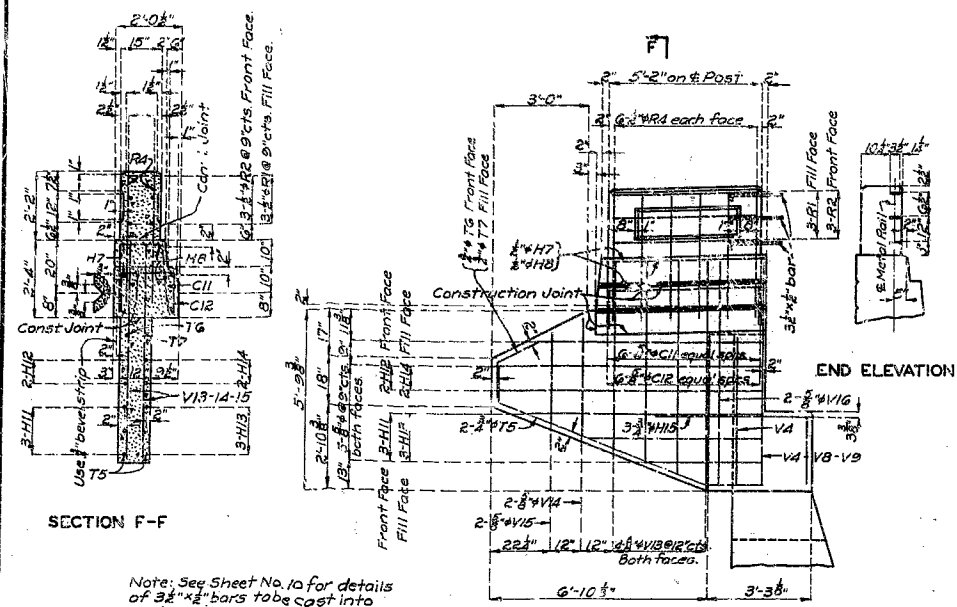
Drawn Oct. 1938 by T.A.M.
 Checked Nov. 1938 by G.W.
 Checked Nov. 1938 by J.W.M. & June 1939 by J.W.M.

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

Sheet No. 1 of 11.

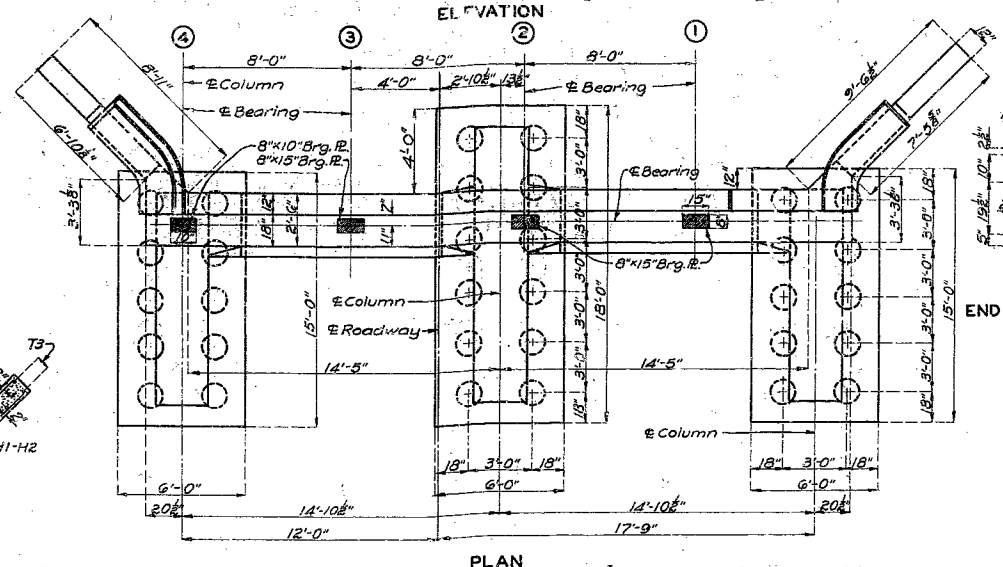
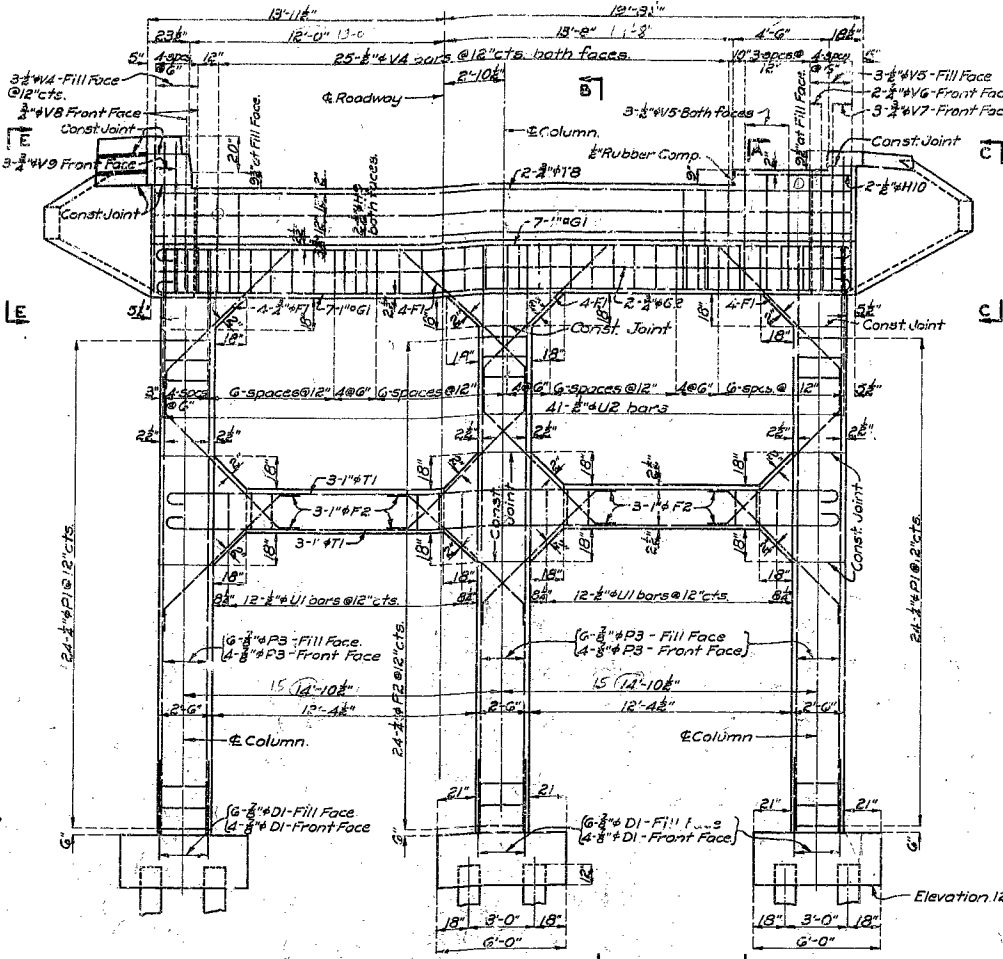
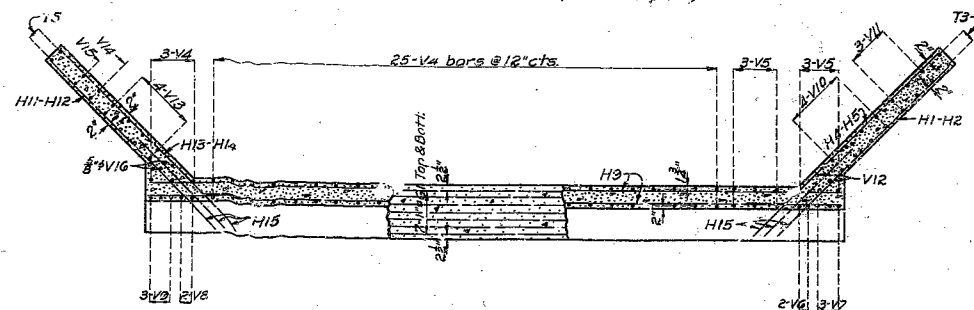
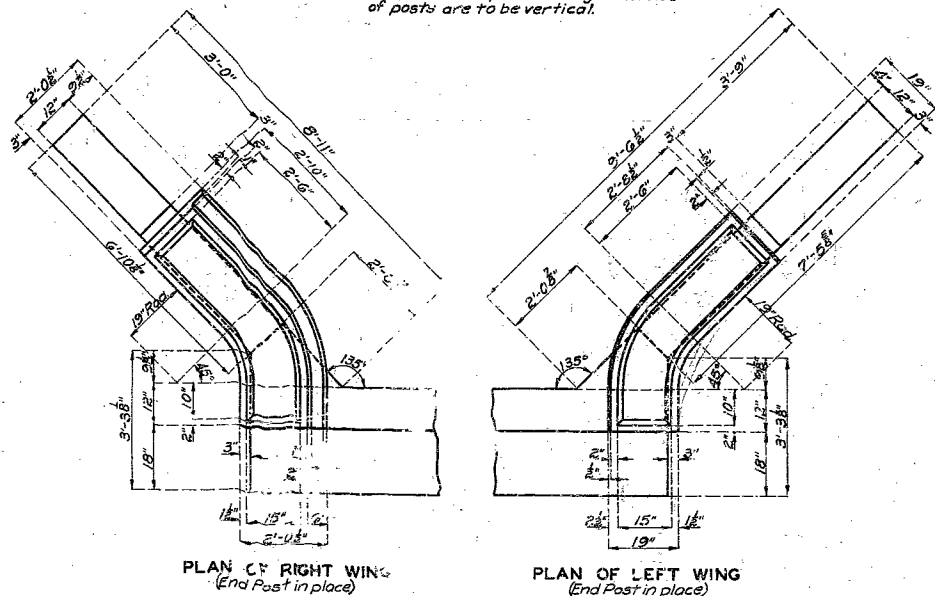
MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	101M2-D(1)	19		

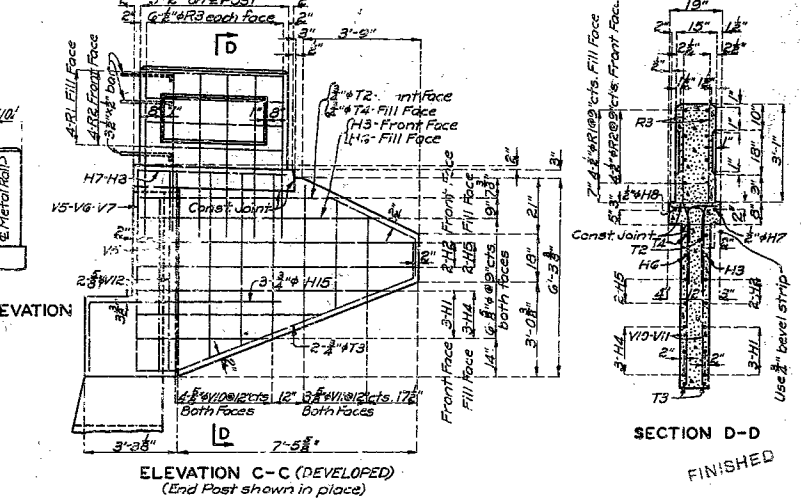
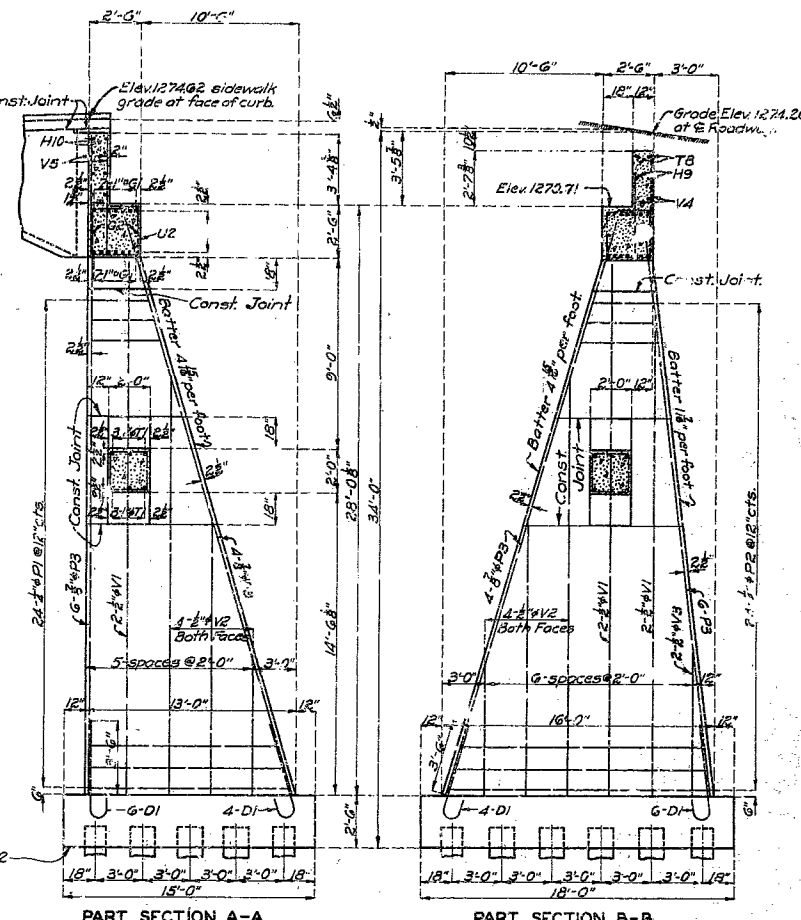


ELEVATION E-E (DEVELOPED)
(End Post shown in place)

Note: Tops of wings, curbs, and posts are to be built parallel to grade. Ends of posts are to be vertical.



Note: Bend R1, R2, R3, H7, & H8 bars field to fit curve of post. Bend 14 & T7 bars into backwall.



BRIDGE OVER ST. L.-S.F.R.R. TRACKS

STATE ROAD FROM DOUGLAS CO. LINE TO WILLOW SPRINGS
AT WILLOW SPRINGS

PROJECT NO. FAGM 25B(1) (SH) STA. 403+54.90

HOWELL COUNTY

Drawn Feb. 1939 by DKM
Checked Apr. 1939 by E.M.A.
Checked June 1939 by P.A.S.

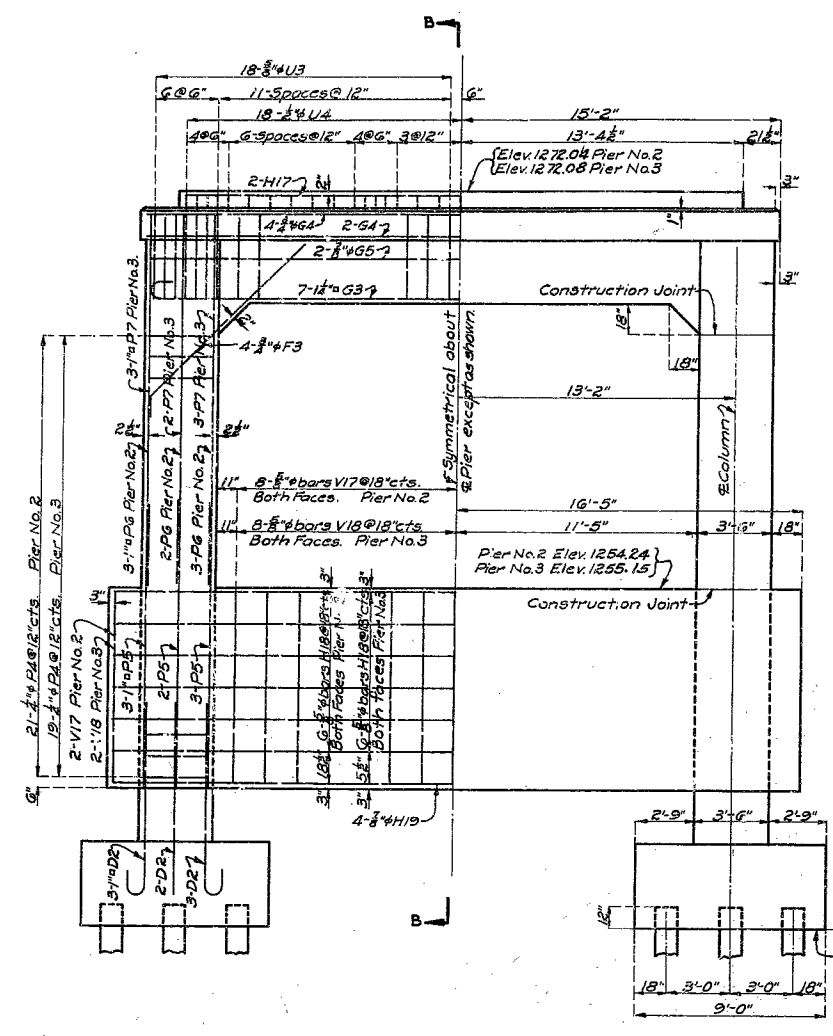
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Sheet No. 3 of 11.

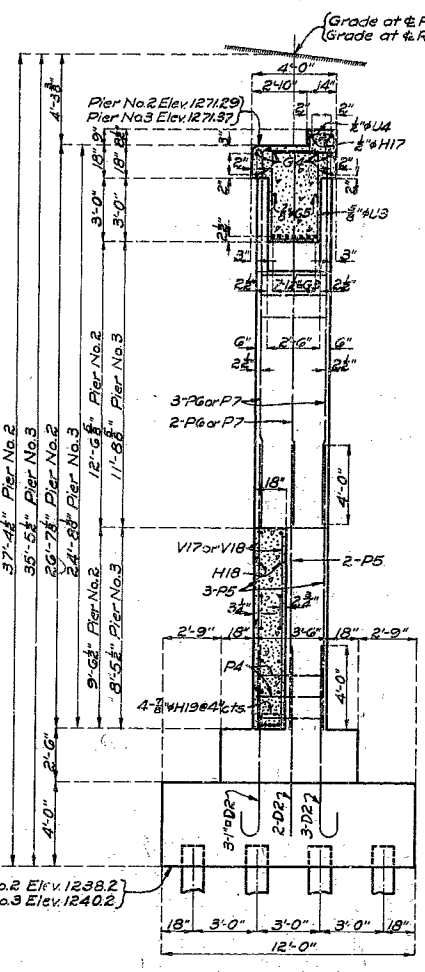
K-789

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	PAINT CO. (S.F.)	19		

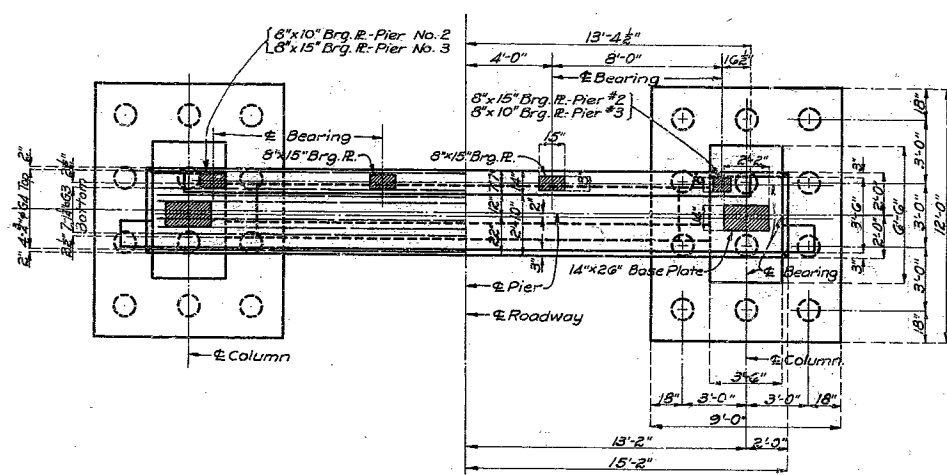


ELEVATION



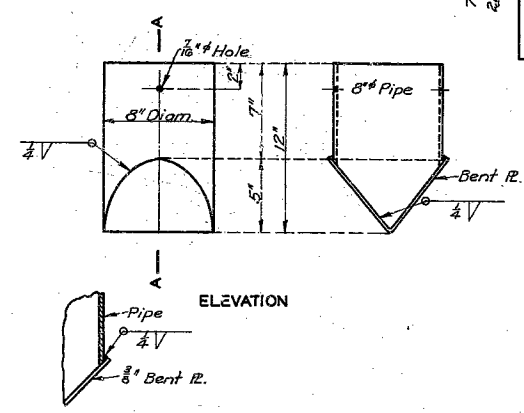
SECTION B-B

Note: Collision wall for Pier No. 3 to be built similar to details shown above except that it shall be shifted to North side of Pier.



PLAN

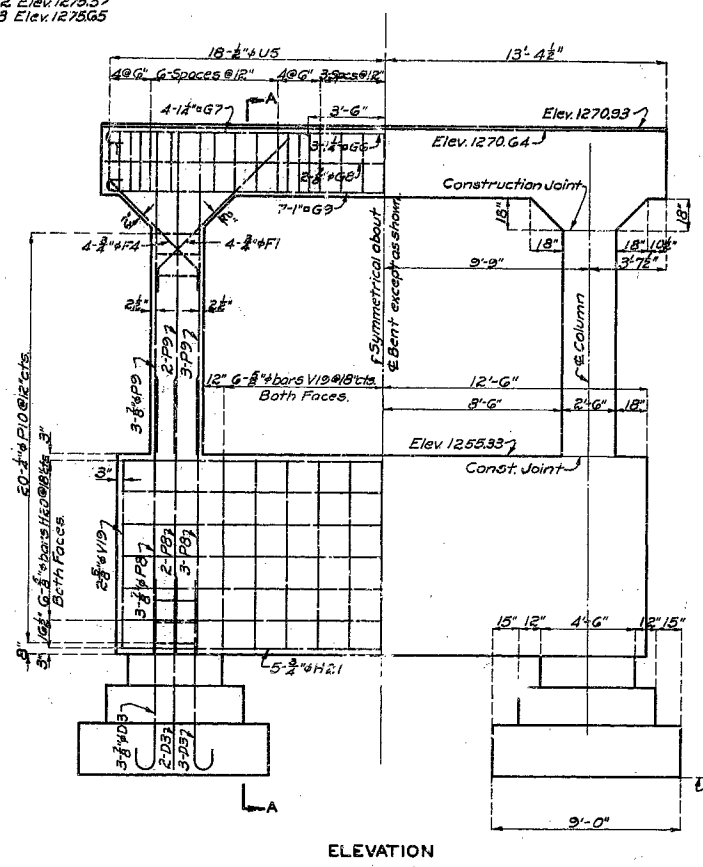
DETAILS OF PIERS NO. 2 & 3



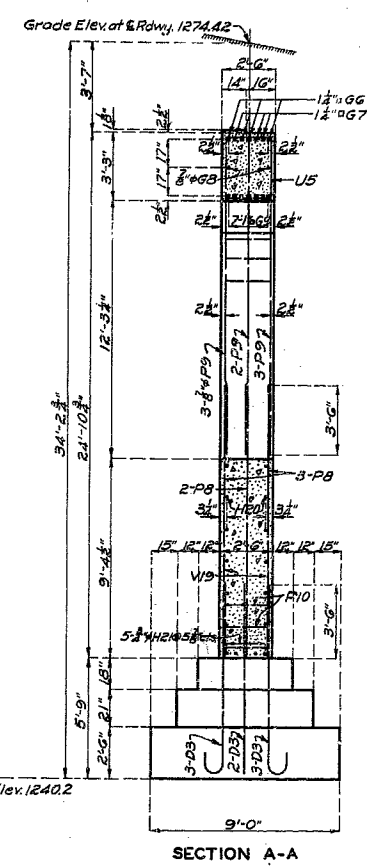
SECTION A-A

DETAILS OF PILING SHOE
A total of 30 metal shoes will be required.

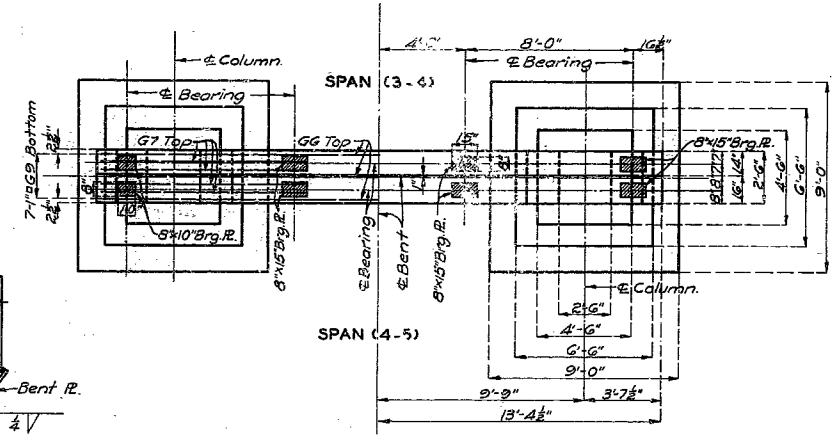
Note: This drawing is not to scale. Follow dimensions.



ELEVATION



SECTION A-A



PLAN
DETAILS OF BENT NO. 4

BRIDGE OVER ST. L. - S. F. R. R. TRACKS
STATE ROAD FROM DOUGLAS COUNTY LINE TO WILLOW SPRINGS
AT WILLOW SPRINGS
PROJECT NO. FAGM 2-D(1) (SH) STA. 403+54.90
HOWELL COUNTY

Sheet No. 4 of 11.

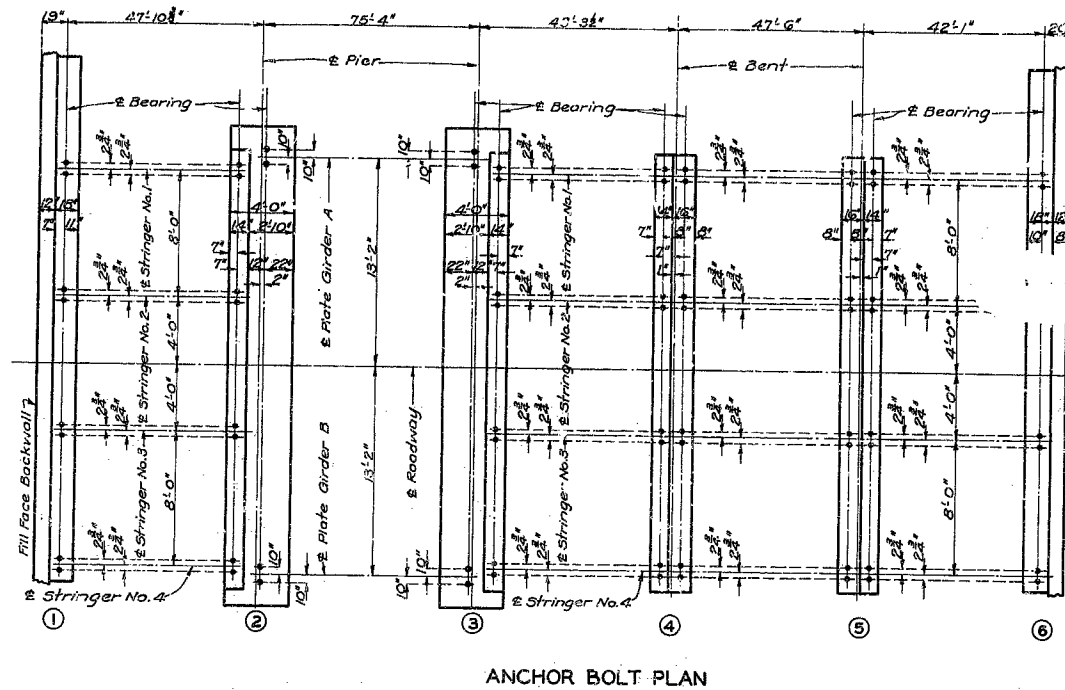
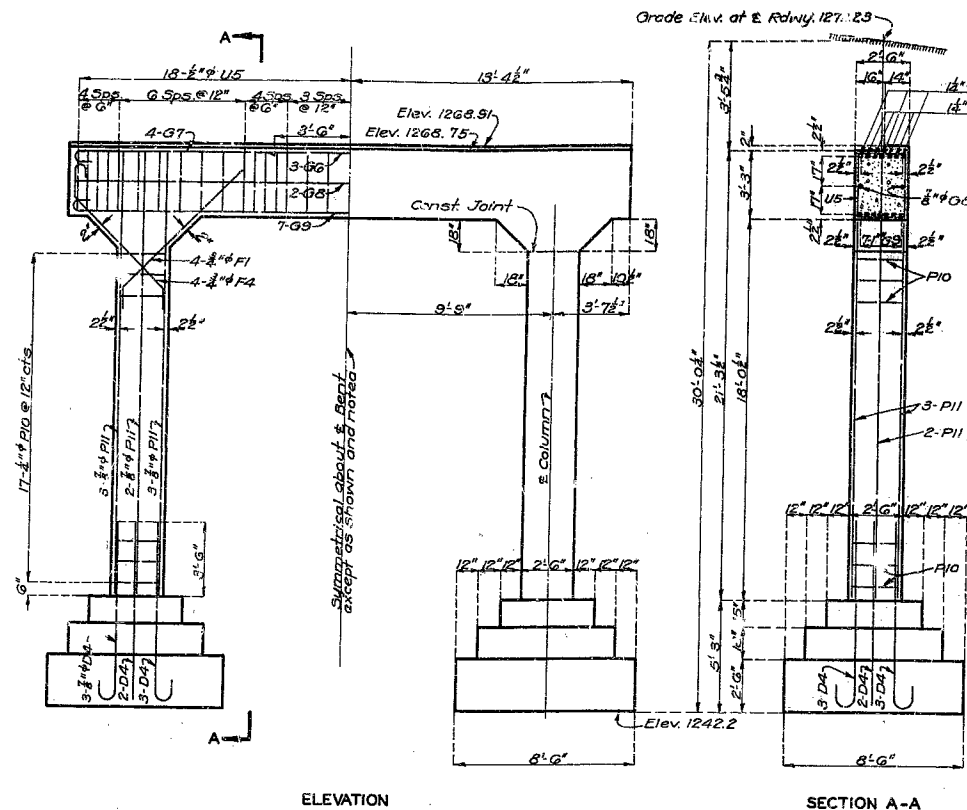
K-789

55

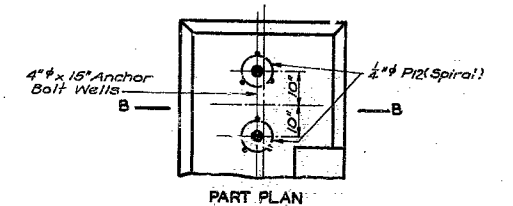
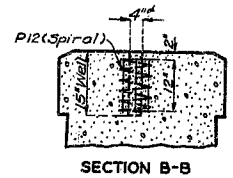
Designed Feb. 1939 by J.C.S.
Drawn Feb. 1939 by D.K.M.
Traced Apr. 1939 by E.M.A.
Checked June 1939 by H.D. & RAB

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YE. H.	SHEET NO.	TOTAL SHEETS
5	MO.	FA3M2-D(1) (SH)	19		

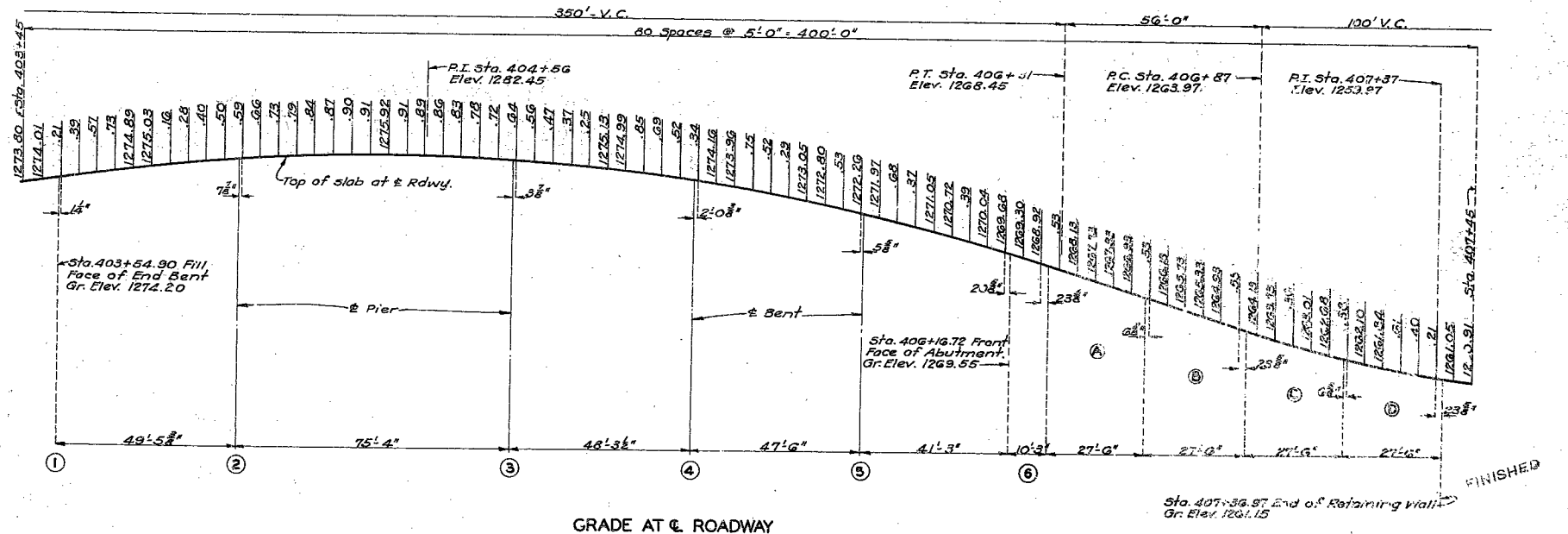
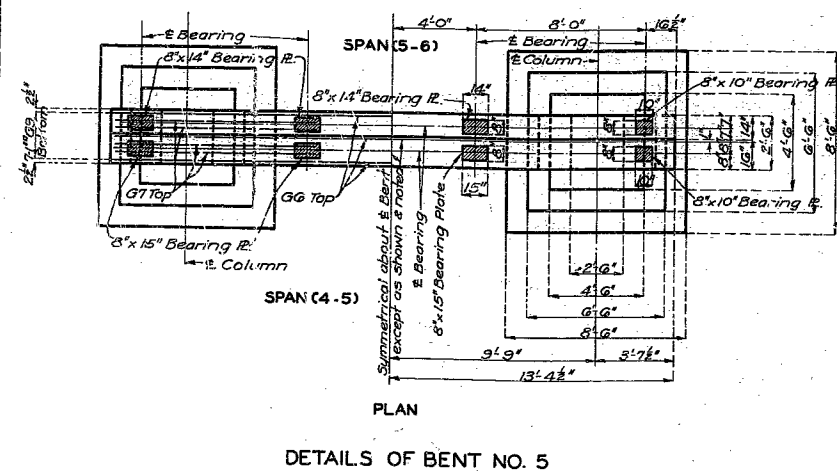


Note: All bearing areas on bents and piers under and extending 2" beyond edges of bearings are to be built monolithically with bents 8" above plan elevation. These areas shall be ground with carborundum brick to horizontal plane surfaces at plan elevation, and shall be adequately protected until lead plates and bearings are in place. Cost of lead plates shall be included in the price bid for structural steel.



DETAILS OF ANCHOR BOLT WELLS

Note: Holes for plate girder span anchor bolts shall be formed in substructure by placing and setting with templates, 4" x 15" wells.



BRIDGE OVER ST. L. - S. F. R. R. TRACKS

STATE ROAD FROM DOUGLAS CO. LINE TO WILLOW SPRINGS
AT WILLOW SPRINGS

PROJECT NO. FAGM2-D(1) (SH) STA. 403+54.90

HOWELL COUNTY

FINISHED

Drawn Feb. 1939 by D.K.M.
Revised Apr. 1939 by G.W.
Checked May 1939 by H.D. & RAB.

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

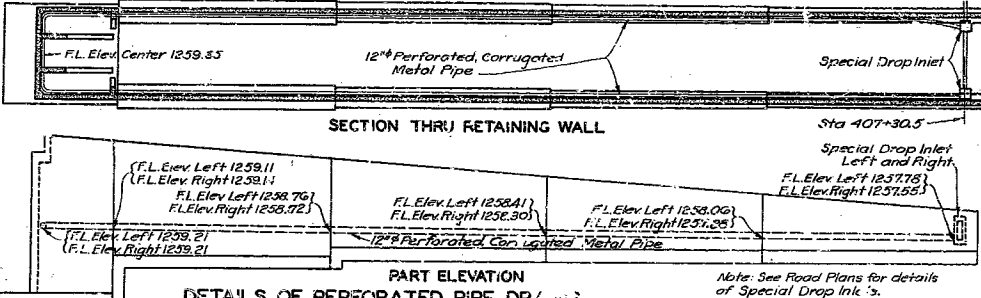
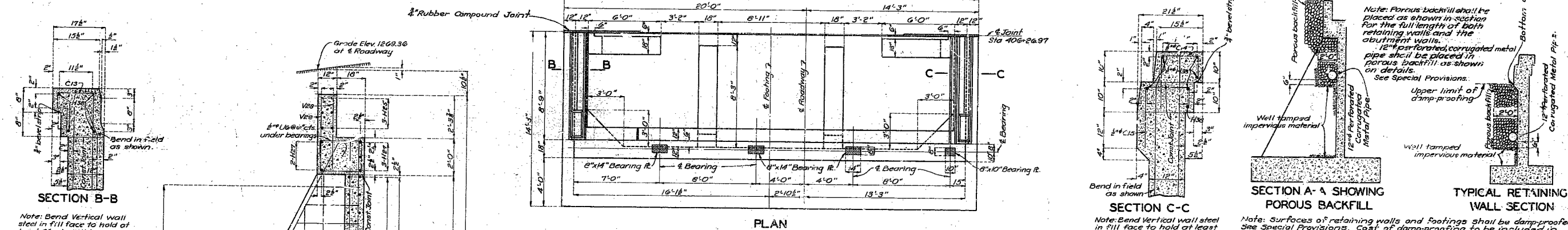
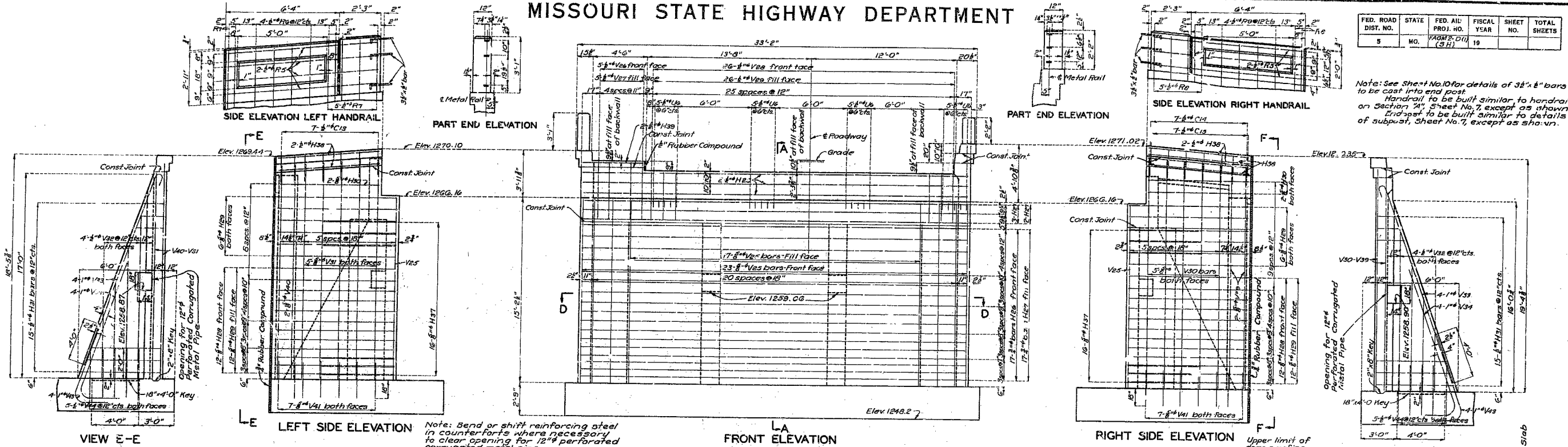
Sheet No. 5 of 11.

K-739

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	FAGM 2-D(1) (S.H.)	19		

Note: See Sheet No. 10 for details of 3/8" x 8" bars to be cast into end post. Handrail to be built similar to handrail on Section 14, Sheet No. 7, except as shown. Endpost to be built similar to details of subpost, Sheet No. 7, except as shown.



BRIDGE O' : ST. L.-S.F. R.R. TRACKS
 STATE ROAD FROM DOUGLAS CO. LINE TO WILLOW SPRINGS
 AT WILLOW SPRINGS
 PROJECT NO. FAGM 2-D(1) (S.H.) STA. 403+14.90
 HOWELL COUNTY

DETAILS OF ABUTMENT NO. 6

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

Sheet No. 6 of 11.

K-789

Designed Feb. 1939 by J.C.S.
 Design March 1939 by D.K.M.
 Checked March 1939 by D.K.M.
 Checked June 1939 by J.C.S. & J.P.S.

57

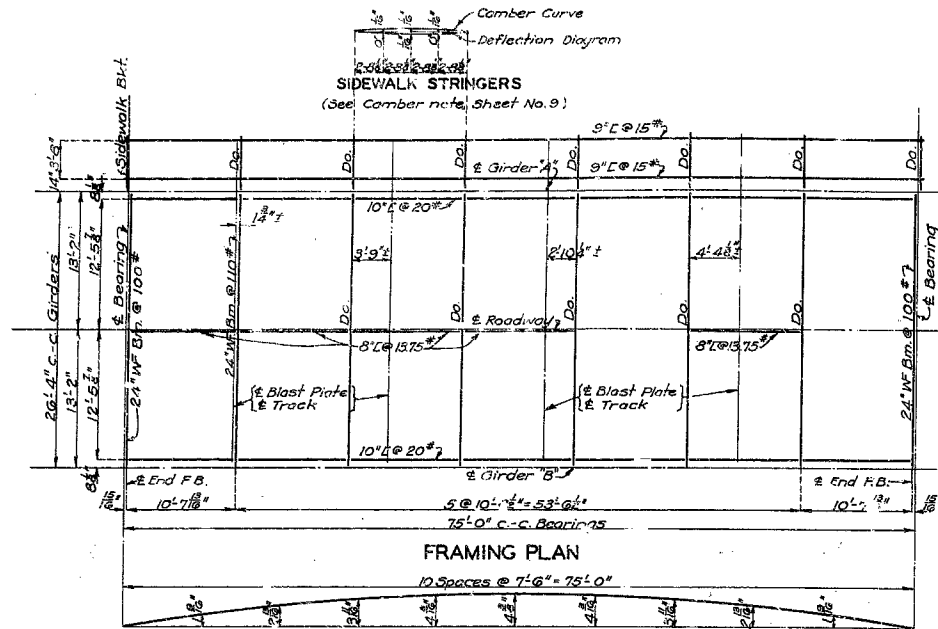
Note: See Detail L-L for details of opening for 15" pipe.

4 HEG, VGG

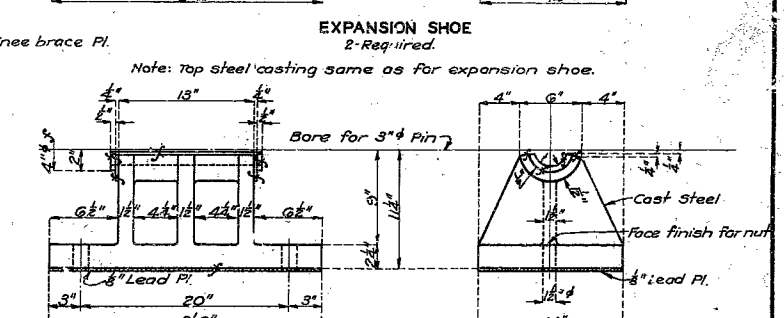
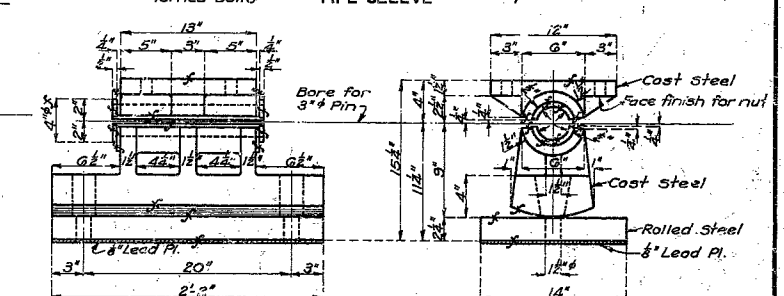
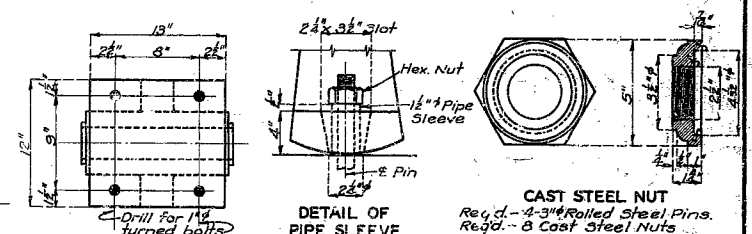
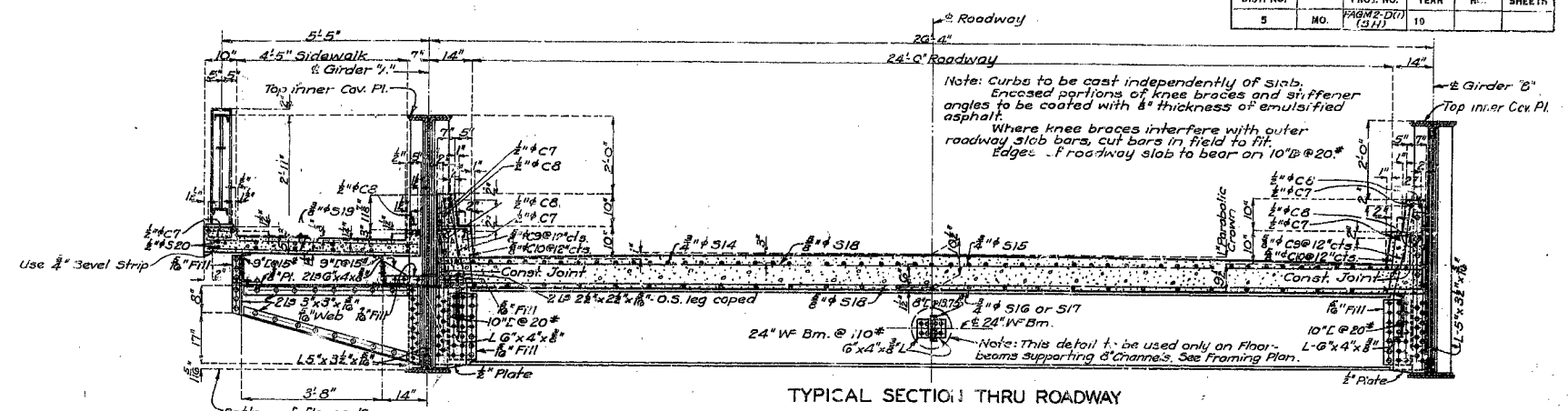


MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	PAVING DIST. (317)	19		



Note: Girders shall be fabricated to the camber curve, specified and web plates ordered to widths necessary to hold distance from edge of plate to back of flange angles $\frac{1}{2}$ " maximum.



Note: All fillets $\frac{1}{2}$ " radius.
Finish all surfaces marked "F".
Paint all finished surfaces one coat of white lead and tallow.
Use 1/2" swaged anchor bolts set 12" into concrete.
All pins, bolts, pipe sleeves and rolled steel plates will be provided for as Fabricated Structural Steel.

DETAILS OF CAST STEEL BEARINGS

BRIDGE OVER ST. L. - S.F.R.R. TRACKS

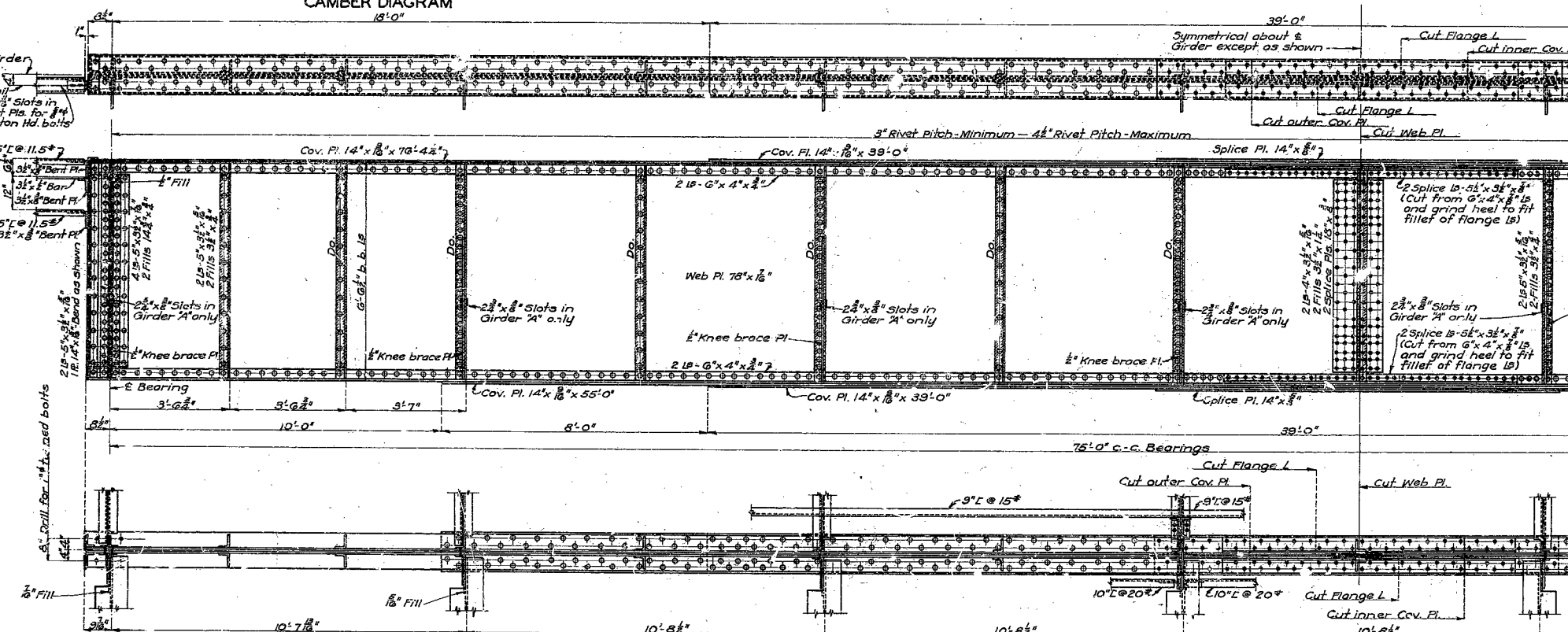
STATE ROAD FROM DOUGLAS CO. LINE TO WILLOW SPRINGS
AT WILLOW SPRINGS

PROJECT NO. FAGM2-D(1) (SH) STA. 403+54.90

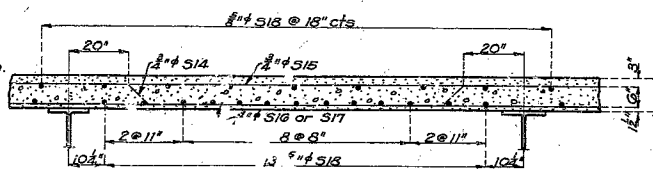
HOWELL

COUNTY

K-789



Note: Intermediate stiffeners to be equally spaced between floorbeams; connection's except as shown.
Grind all stiffener angles to bar - top and bottom.
Handrail connection details shown are for Girder "B" only.
Sidewalk bracket and stringer details shown are for Girder "A" only.
All rivets $\frac{1}{2}$ ". Open holes $\frac{1}{2}$ " except as noted.



Note: At the option of the Contractor, two field splices may be used, one at each third point of the girder, instead of the one shown above. Cost of the additional field splice must be borne by the Contractor.

Note: This drawing not to scale. Follow dimensions.

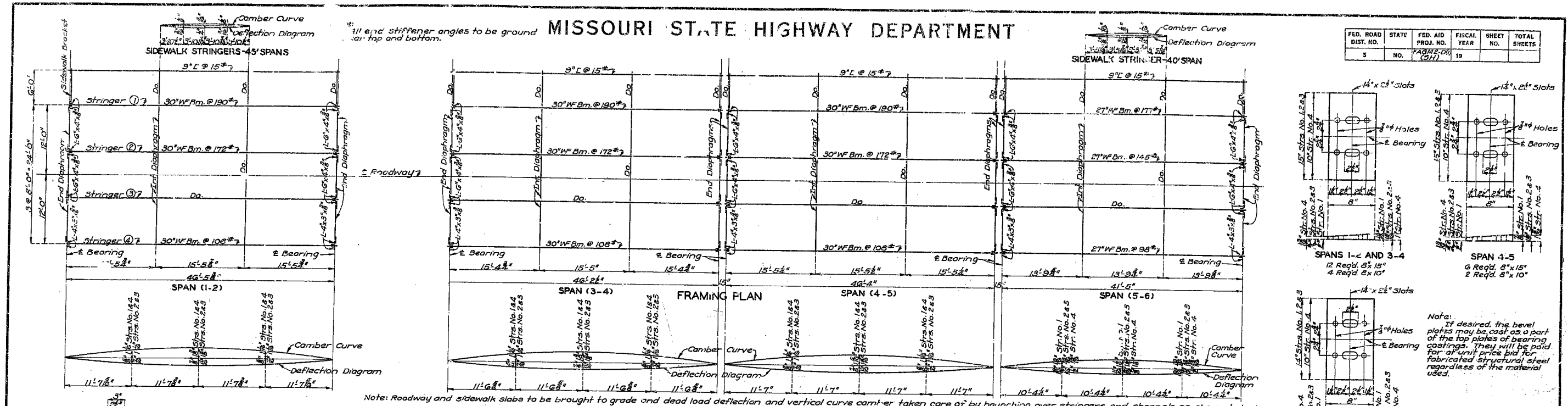
Sheet No. 8 of 11.

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Drawn Mar. 1939 by J.C.S.
Traced Mar. 1939 by G.W.
Checked May 1939 by R.A.S.

MISSOURI STATE HIGHWAY DEPARTMENT

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



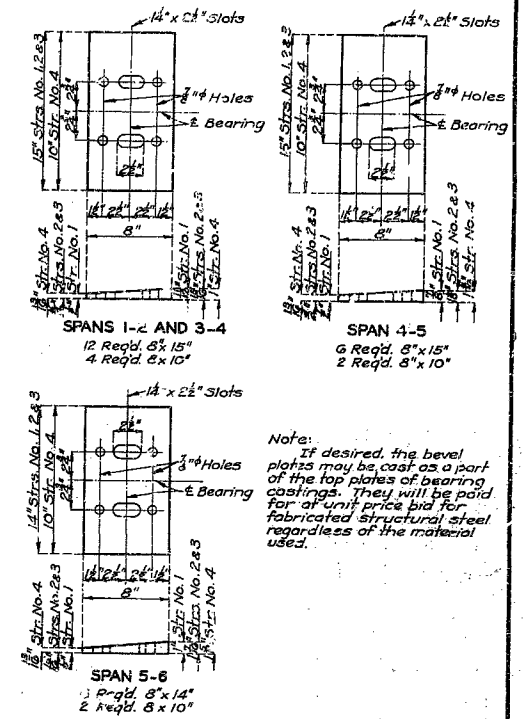
Note: Roadway and sidewalk slabs to be brought to grade and dead load deflection and vertical curve camber taken care of by haunching over stringers and channels as shown below.

CAMBER CURVES AND DEFLECTION DIAGRAMS

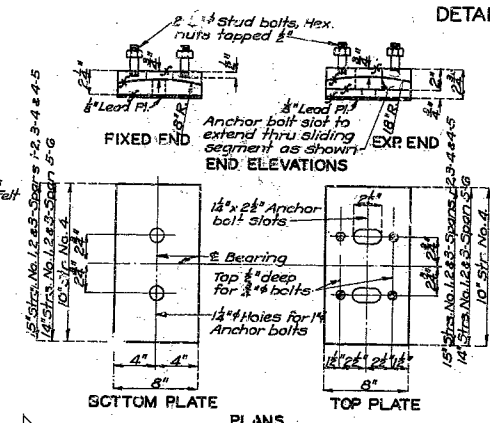
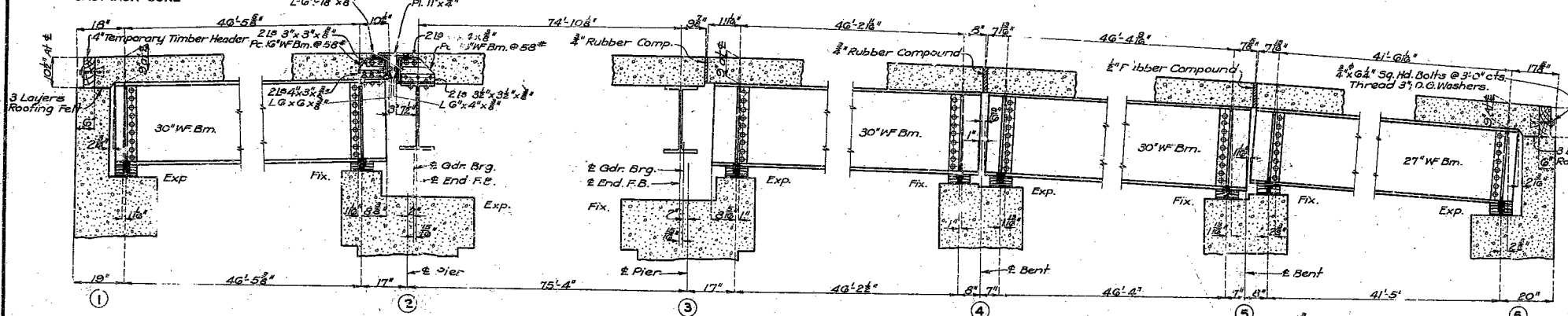
Note: An approved alternate may be substituted for the cast iron cone shown.

Cost of temporary timber headers, complete in place to be included in price bid for concrete.

CAST IRON CONE



Note: If desired, the bevel plates may be cast as a part of the top plates of bearing castings. They will be paid for at unit price bid for fabricated structural steel regardless of the material used.



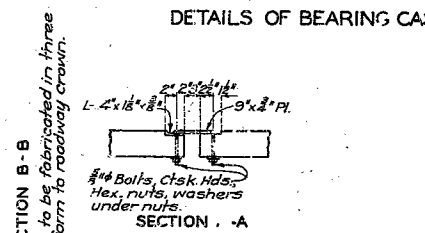
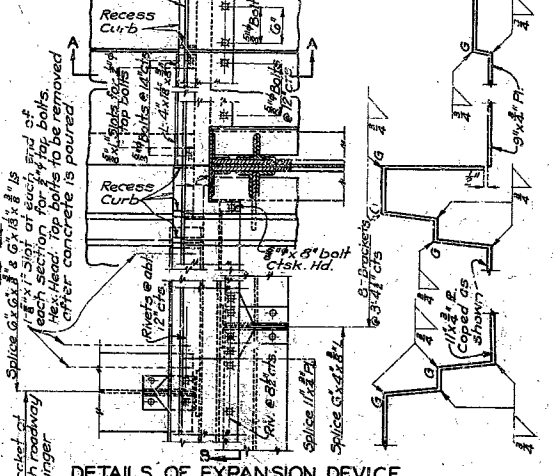
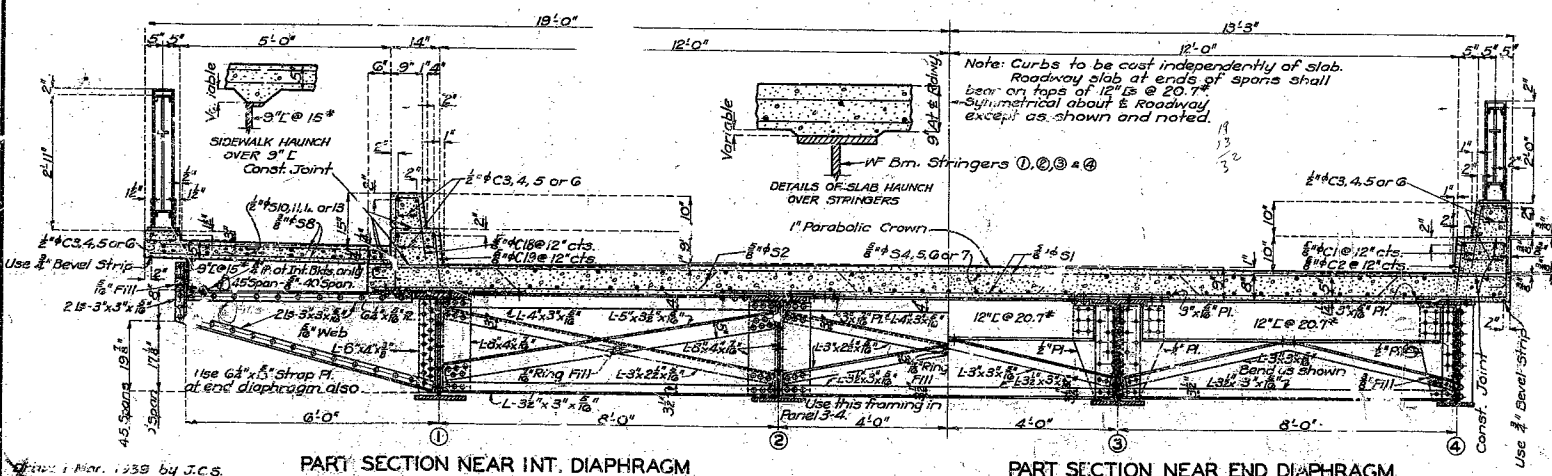
Note: Bearing plates may be either cast steel or gray iron alloy. Finish all surfaces marked "X". All machine finished surfaces shall be coated with white lead and follow before shipment or before being placed in the open. Before erection, the white lead and follow shall be completely removed and the contact surfaces given a heavy coat of graphite and oil.

Stud bolts and nuts will be paid for at unit price bid for fabricated structural steel.

Anchor bolts shall be 1" swaged bolts, no heads or nuts, and shall extend 10" into concrete. Top ends of anchor bolts shall be above the tops of castings but not higher than 1/4" below top surface of bottom flange of beam.

Four 8"x10" three 8"x14" and nine 8"x15" fixed bearing castings required, each consisting of one top and one bottom plate.

Four 8"x10" three 8"x14" and nine 8"x15" expansion bearing castings required, each consisting of one top, one bottom and one flange plate.



Expansion device to be fabricated in three sections to conform to roadway crown.

BRIDGE OVER ST.L.-S.F.R.R. TRACKS

STATE ROAD FROM DOUGLAS CO. LINE TO WILLOW SPRINGS
AT WILLOW SPRINGS
PROJECT NO.FAGM 2-D(1) (SH) STA. 403+54.90

HOWELL COUNTY

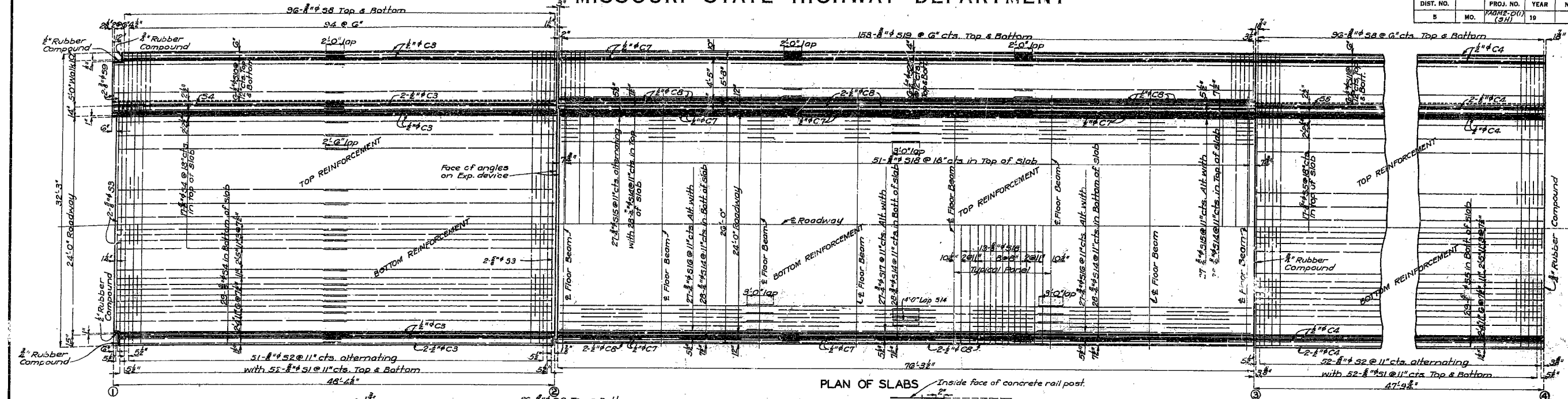
K-789

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

Sheet No. 9 of 11.

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2	MO.	PAVING (3H)	19		



PLAN OF SLABS

SECTION A-A

AT END BENTS

AT INTER. RAIL POST

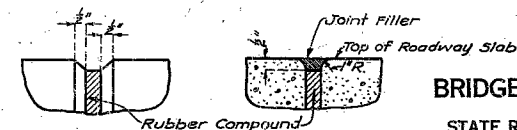
AT INT. BENTS

SECTIONS THRU RAIL

Note: Rail channels and $\frac{3}{8} \times \frac{1}{2}$ bars shall be placed on chords to the vertical curve between rail posts. The $\frac{3}{8} \times \frac{1}{2}$ longitudinal bar shall be punched for full length $\frac{3}{8} \times \frac{1}{2}$ vertical bars but not for the shorter intermediate bars. The bottom $5''$ channel shall be punched for all vertical bars which shall be extended $\frac{1}{2}''$ thru the web. No punching of top channel web for vertical bars will be permitted. All panels shall be marked and identified as to their location in the structure. Posts and $\frac{3}{8} \times \frac{1}{2}$ bars shall be vertical. See Special Provisions for basis of payment.

DETAILS OF STRUCTURAL STEEL HANDRAIL

Note: All handrail material including anchor bars, anchor bolts and all other bolts and nuts shall be galvanized. See Special Provisions.



Note: Use bevel as shown for exposed faces of all joints consisting of rubber compound except at top surface of roadway slab. Use gaging tool with $1''$ radius at top surface of roadway slab each side of rubber compound joint and fill flush with joint filler as shown.

Sheet No. 10 of 11

BRIDGE OVER ST. L. - S.F.R.R. TRACKS

STATE ROAD FROM DOUGLAS CO. LINE TO WILLOW SPRINGS
 AT WILLOW SPRINGS

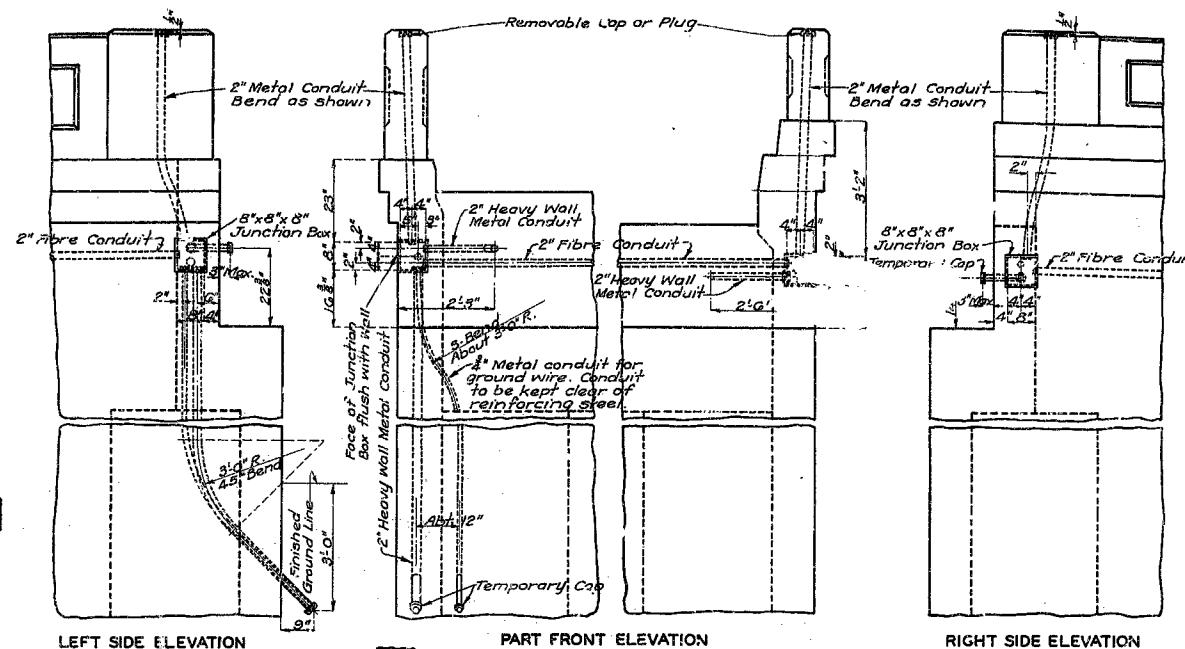
PROJECT NO. FAGM 2-D(1) (3H) STA. 403+54.90

HOWELL

COUNTY

K-789

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	FAGM2-D11 (21)	19		



Note: All metal to conduit running into handrail posts shall be bent 90° and secured with a locknut.

All "Heavy Wall Metal Conduit" shall be attached to junction box with a bushing and locknut.

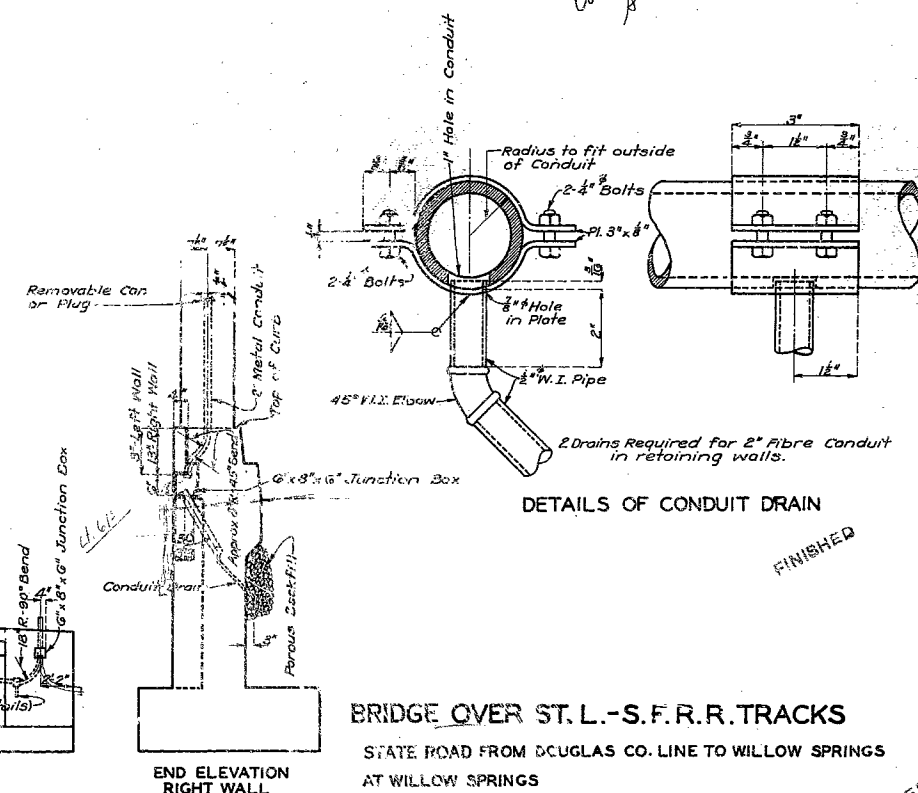
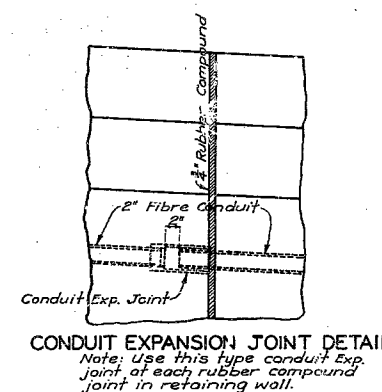
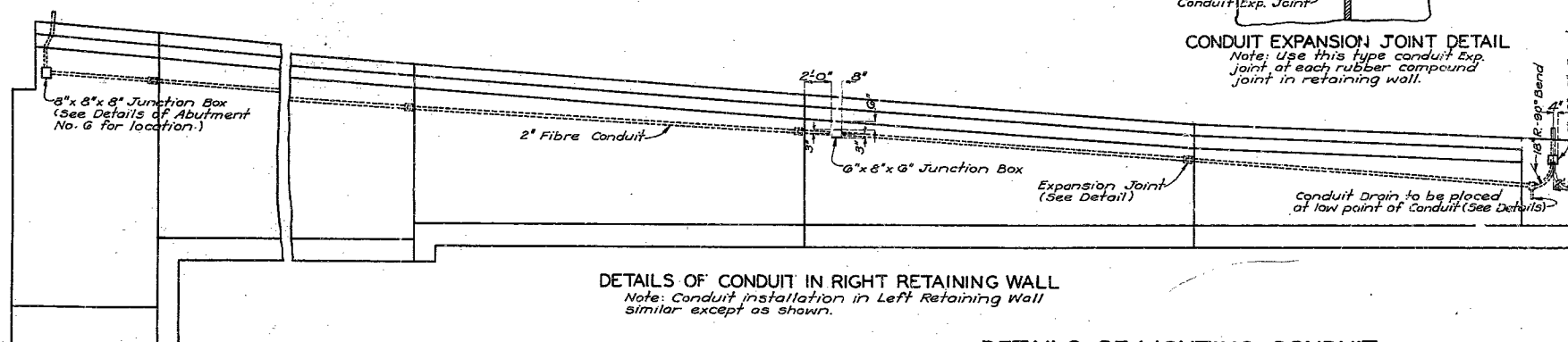
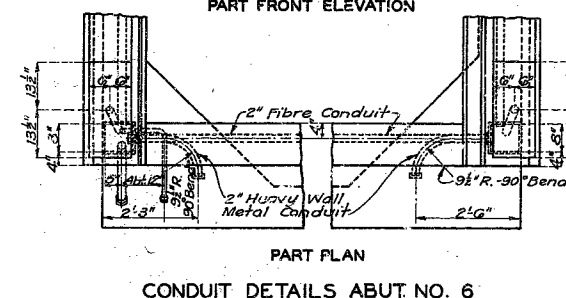
Shift or band reinforcing steel where necessary to install junction boxes.

Expose and seal all junction boxes to be flush with adjacent concrete surfaces.

All expansion joints shall be loosely caulked with oakum after conduit is in place.

All 2" pipe conduit shall be caulked with oakum at entrances to exterior.

All junction boxes shall be unplugged, galvanized, cast iron boxes with gaskets and bolted covers.



STATE ROAD FROM DOUGLAS CO. LINE TO WILLOW SPRINGS
AT WILLOW SPRINGS
PROJECT NO. FAGM 2-D (1) (SH) STA. 403+54.90

HOWELL ED COUNTY

Brown April 1939 by D.K.M.
Traced April 1939 by G.W.
Checked June 1939 by RAG.

Note: This drawing is not to scale. Follow dimensions

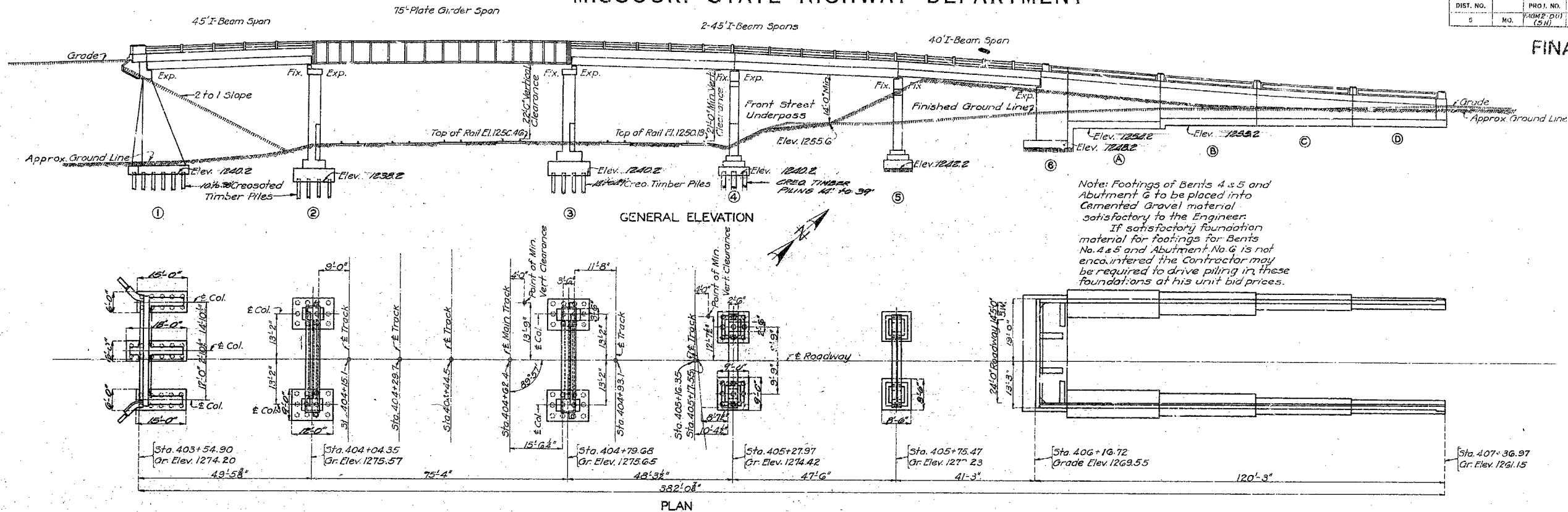
Sheet No. 11 of 11

K-789

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	FROM D.U. (SH)	19		

FINAL PLANS



Note: Footings of Bents 4 & 5 and Abutment 6 to be placed into Cemented Gravel material satisfactory to the Engineer. If satisfactory foundation material for footings for Bents No. 4 & 5 and Abutment No. 6 is not encountered the Contractor may be required to drive piling in these foundations at his unit bid prices.

GENERAL NOTES:

Design Specifications A.A.S.H.O. - 1935
 Loading H-15 A.A.S.H.O.
 Structural Steel Stress 18,000 #/sq.
 Reinforcing Steel Stress 18,000 #/sq.
 Concrete Class "B" 900 #/cu.
 All concrete shall be Class "B".
 Exposed edges shall be beveled $\frac{1}{4}$ " where no other bevel is noted.
 Bar supports and spacers will be required for reinforcing steel in superstructure. See Standard C-110R.
 Top of concrete in both sides and front wall of Abutment No. 6 to be kept at same level throughout pouring.
 All concrete shall be proportioned by the weight proportioning method.
 Floor slab for each span shall be constructed full width and length at one operation. No longitudinal or transverse construction joints will be permitted except as shown.
 Excavation for structure shall be in accordance with Specification 1 of Standard and Supplemental Specifications.
 Detail shop drawings for all structural steel, wrought iron, cast steel and cast iron shall be submitted to the State Highway Department in duplicate and shall be approved before material is ordered or work started.
 Beam flanges shall be squared up at all points of bearing.
 The welding symbols used on these plans are the 1937 symbols of the American Welding Society.
 Qualification of all welding operators and electrodes will be required in accordance with Specifications, except that a proper certification of electrodes previously qualified will be acceptable.
 Rivets $\frac{3}{4}$ " holes $\frac{13}{16}$ " except as noted. Handrail rivets $\frac{5}{8}$ ", holes $\frac{11}{16}$ ". Field connections for handrail channels and bars shall be $\frac{5}{8}$ " butterfly head bolts and for connections of rail to rail posts shall be $\frac{5}{8}$ " machine bolts, holes $\frac{13}{16}$ ". All other field connections riveted except as noted. Washers shall be used as noted and under nuts of all turned bolts.
 Paint: Shop, non-solvent, field, contact surfaces of bolted field connections one coat of red lead and surfaces inaccessible after erection three coats of red lead. No other paint to be applied by Contractor. Red lead required shall be furnished by the Contractor. Payment for cleaning and painting such surfaces will be included in unit price bid for structural steel. No paint required on the galvanized material of handrail.
 Where rubber compound is specified on plans for use in partition or expansion joints, the pre-molded joint shall be securely stitched to one face of concrete with copper wire.
 A minimum vertical clearance of 20'0" from top of rails and a minimum lateral clearance of 8'1" from centerline of tracks adjacent to Pier No. 2 and Bent No. 4 shall be maintained during construction. Minimum lateral clearances on all other tracks shall be 8'6" from centerline of tracks.
 See Special Provisions relative to required shoring of excavation for Piers No. 2 and 3. Existing fill shall be removed on North End of Bridge as indicated on road plans.

ESTIMATED QUANTITIES

Item	Substr.	Superstr.	Total
Class I Excavation for Structures	Cu.Yds. 1452.5		1452.5
Class "B" Concrete (Handrail)	Cu.Yds. 22.2		22.2
Class "B" Concrete	Cu.Yds. 638.9	254.7	893.6
Fabricated Struct. Steel (I-Beams)	Lbs. 92970	92970	185940
Fabricated Struct. Steel (Handrail)	Lbs. 41200		41200
Steel Castings	Lbs. 1810		1810
Gray Iron Alloy Castings	Lbs. 2300		2300
Reinforcing Steel	Lbs. 53930	51070	105000
Creosoted Timber Piles in Place	Lin. Ft. 2448		2448
Timber Test Piles	Lin. Ft. 127		127
26" Struct. Steel Handrail	Lin. Ft. 180		180
31" Struct. Steel Handrail	Lin. Ft. 203		203
Conduit System	Lump Sum		
12" Corrugated Perforated Metal Pipe	Lin. Ft. 254		254
Wrought Iron Blast Plates	Lbs. 22570		22570
Porous Backfill	Cu.Yds. 135		135

Note: All excavation for bridge will be paid for as Class I Excavation for Structures.
 Estimated quantity of creosoted timber piling includes 5 linear feet of pile in place for each metal shoe specified.

U.S.G.S. B.M. #A8-1928 Elevation 1253.19 56' S.E. of Viaduct
 69' Rt. of Sta. 405+57.9.

BRIDGE OVER ST. L. - S.F. R.R. TRACKS

STATE ROAD FROM DOUGLAS CO. LINE TO WILLOW SPRINGS

AT WILLOW SPRINGS

PROJECT NO. FAGM 2-D(1) (SH) STA. 403+54.90

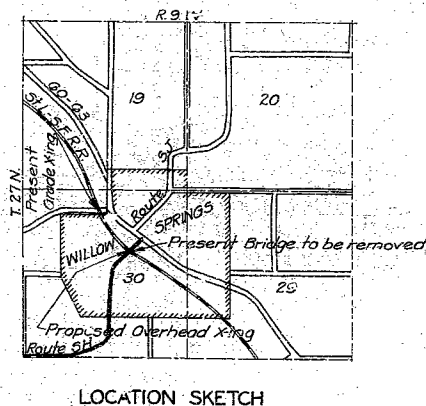
HOWELL COUNTY

SUBMITTED BY *W.R. Sack* 6/26/39
 APPROVED BY *Cl. Brown* 6/26/39
 BRIDGE ENGINEER
 CHIEF ENGINEER

STD. C110R1

K-789

FINAL PLANS



Drawn Oct. 1938 by T.A.M.
 Traced Nov. 1938 by G.W.
 Checked Nov. 1938 by J.H.M. & June 1939 by P.W.

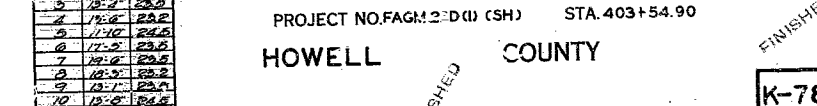
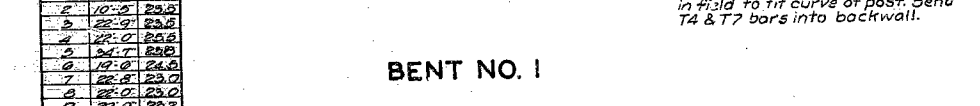
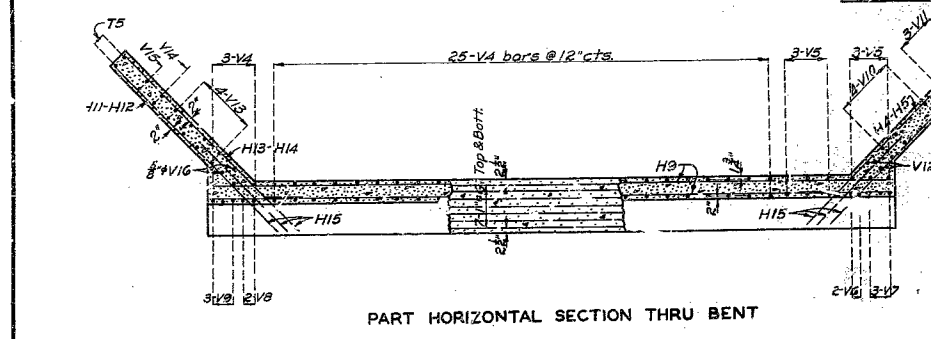
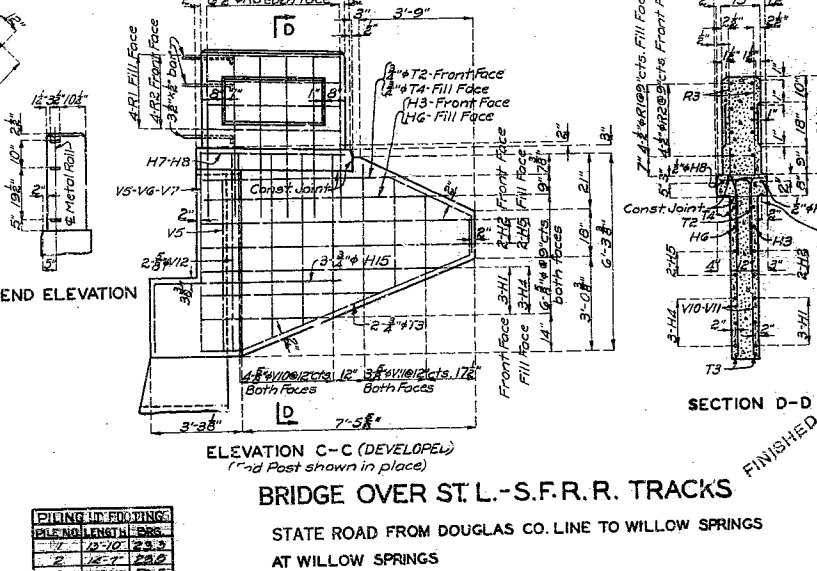
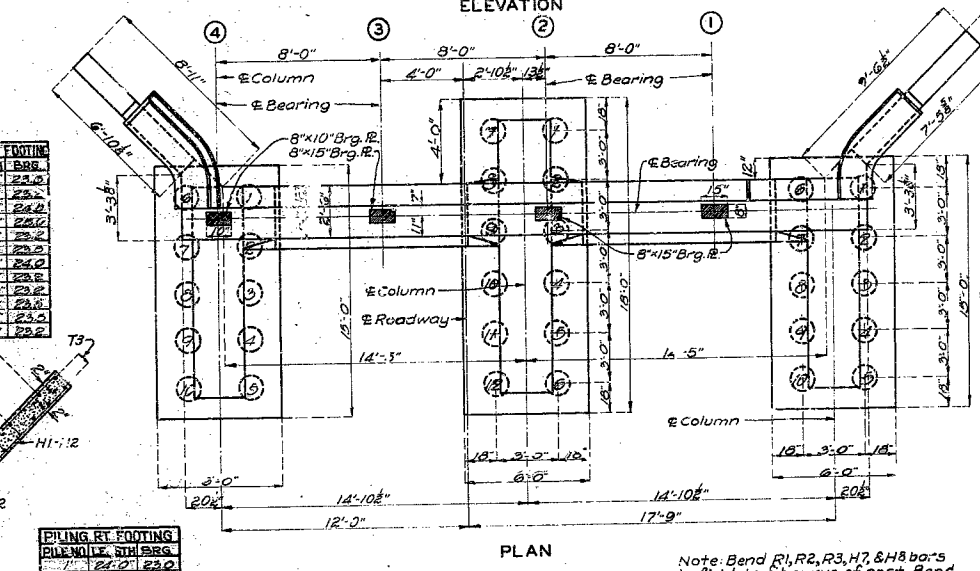
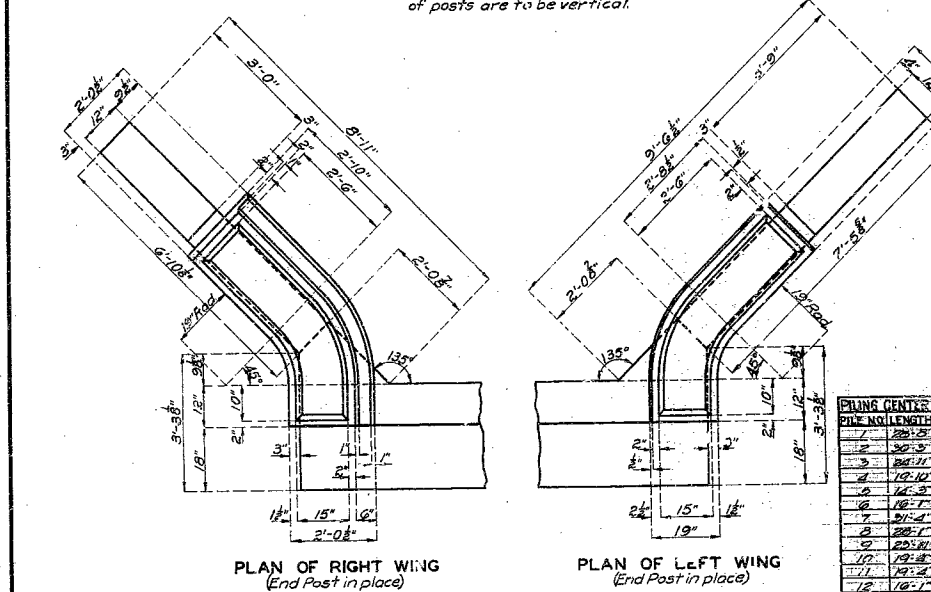
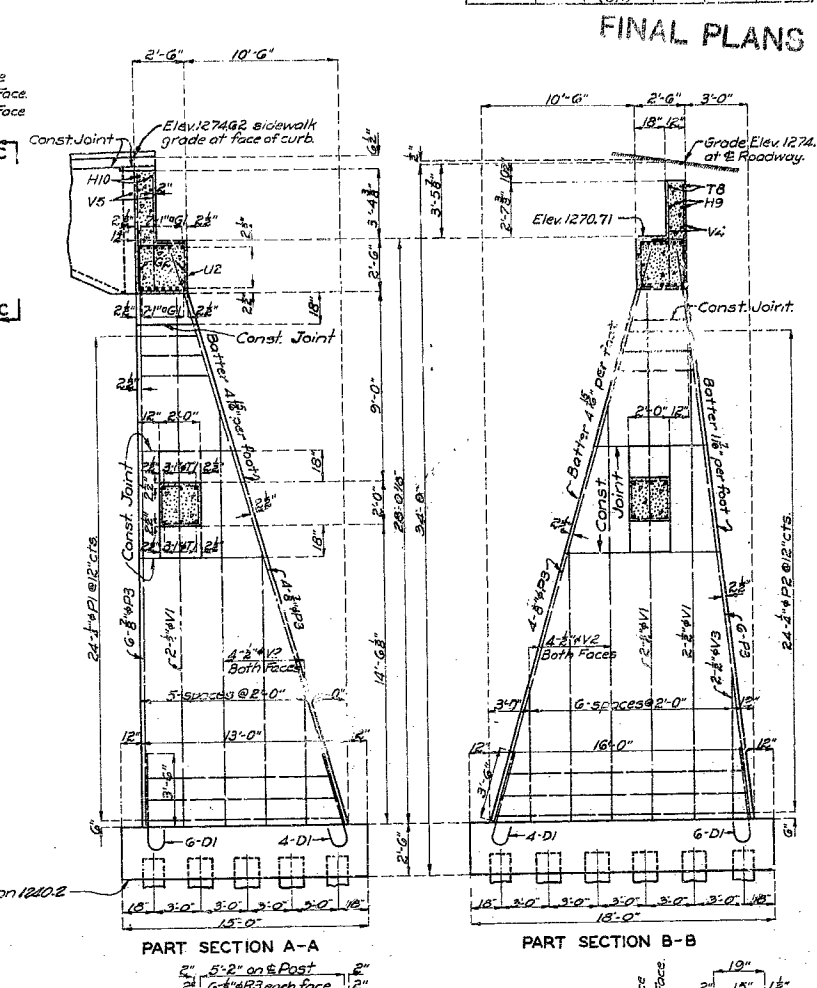
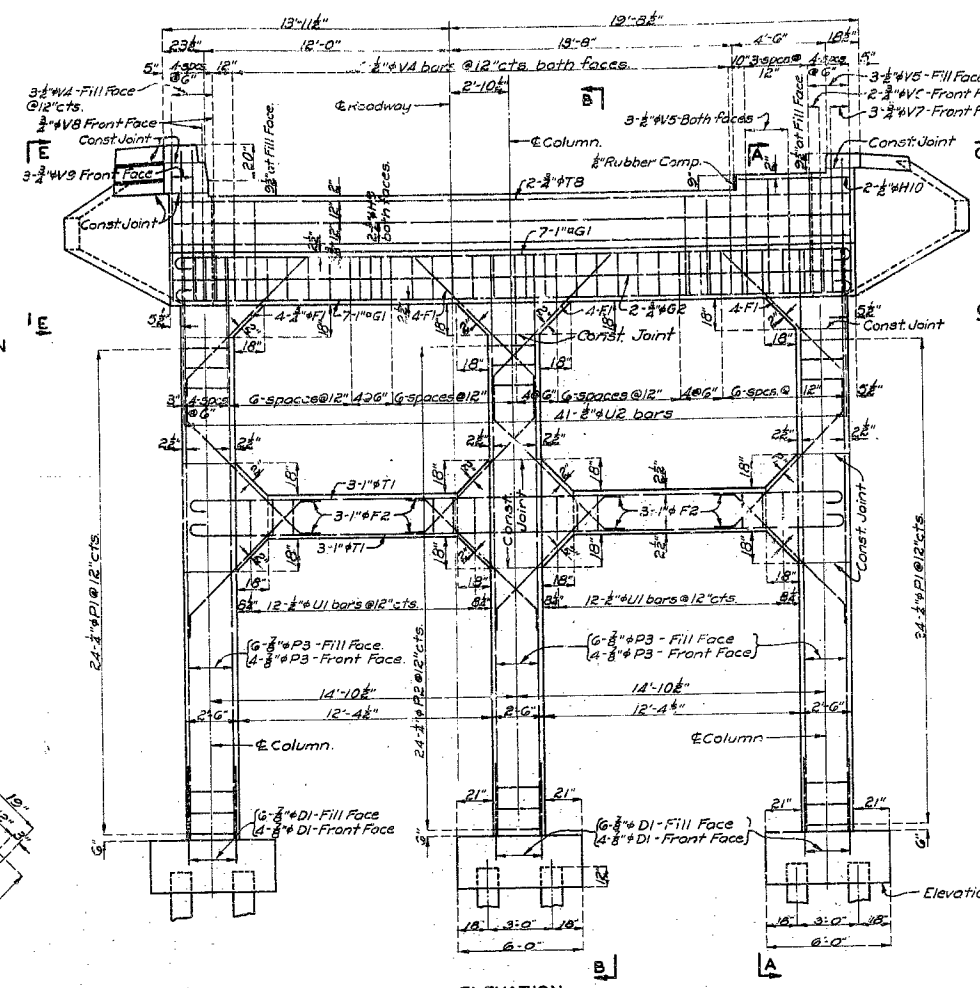
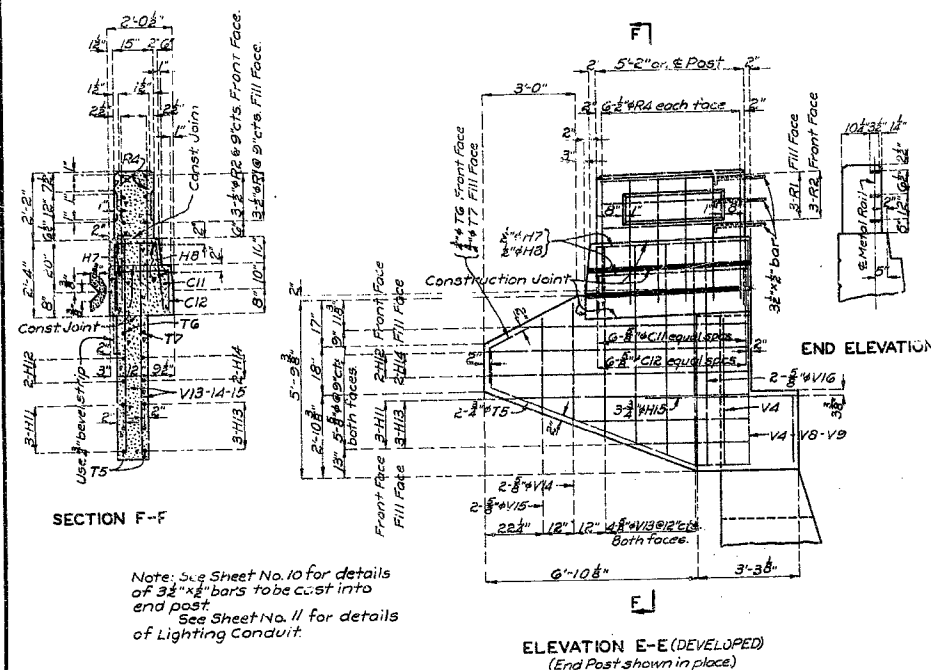
Note: This drawing is not to scale. Follow dimensions.

Sheet No. 1A of 6

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	(S.U.)	19		

FINAL PLANS



Drawn Feb. 1939 by DKM
Traced Apr. 1939 by E.M.A.
Checked June 1939 by K.A.B.

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

Sheet No. 3A of 6

STATE ROAD FROM DOUGLAS CO. LINE TO WILLOW SPRINGS
AT WILLOW SPRINGS
PROJECT NO. FAGM.2-D(1) (SH) STA. 403+54.90
HOWELL COUNTY

FINISHED

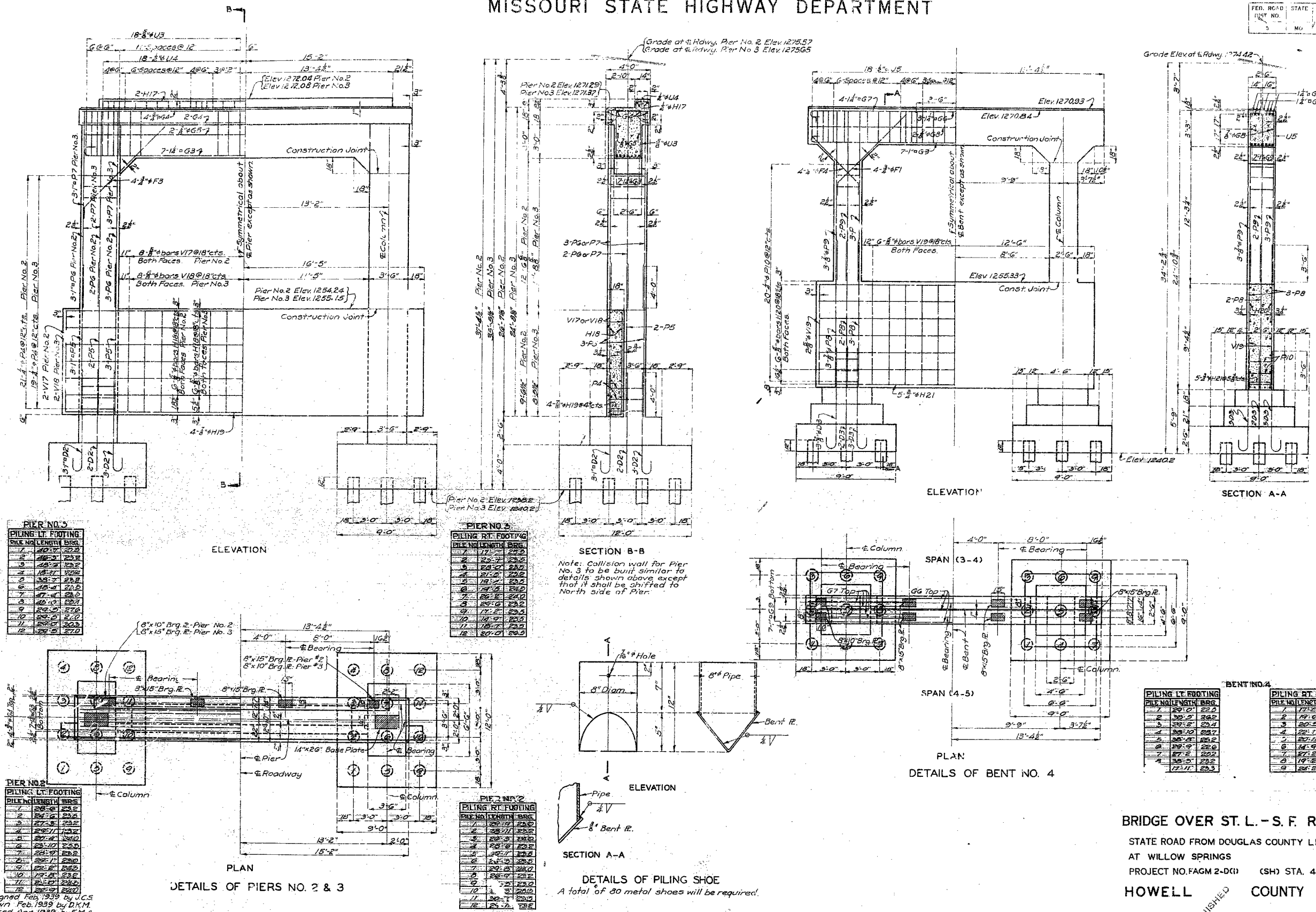
FINISHED

K-789

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO	1939	19	20

FINAL PLANS



Designed Feb. 1939 by J.C.S.
Drawn Feb. 1939 by D.K.M.
Traced Apr. 1939 by E.M.A.
Checked June 1939 by H.D. & R.A.B.

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

Sheet No. 3A of 6

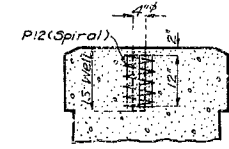
FINAL PLANS

K-789

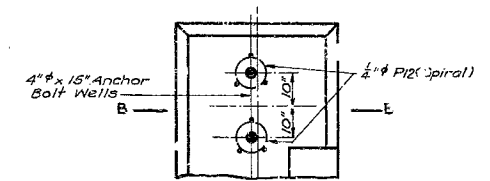
MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	PAINT (SH)	19		

FINAL PLANS



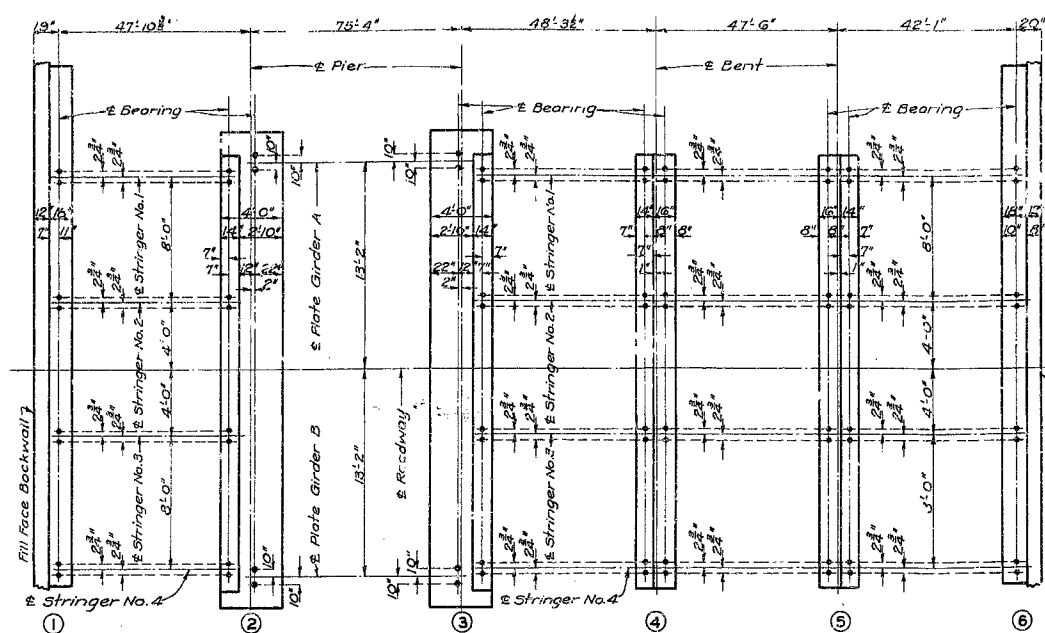
SECTION B-B



PART PLAN

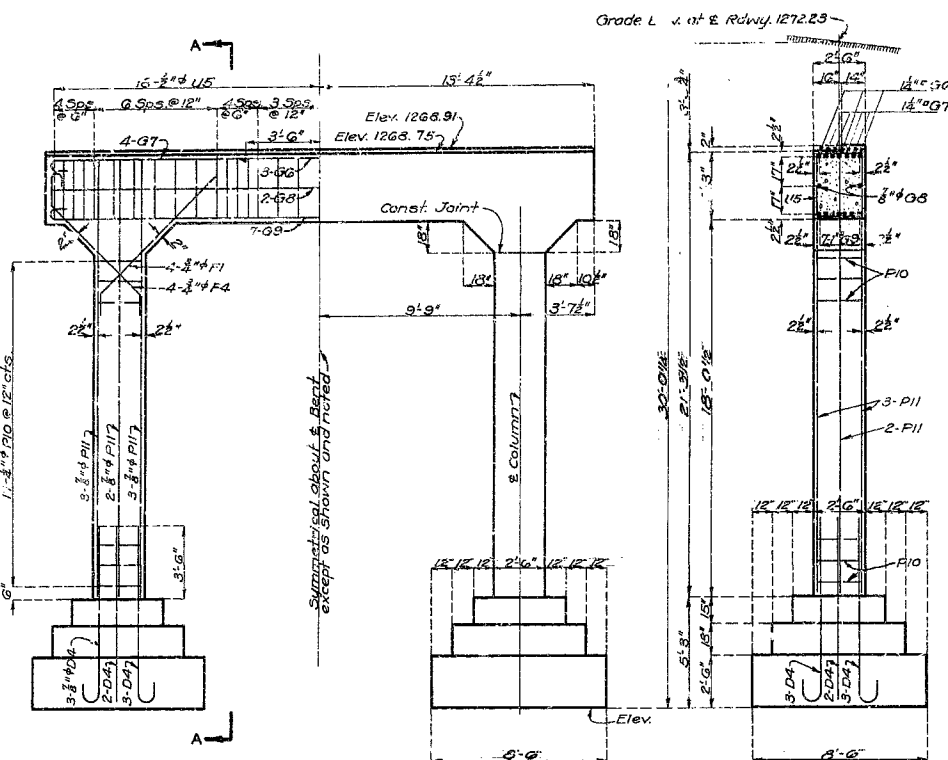
DETAILS OF ANCHOR BOLT WELLS

Note: Holes for plate girder span anchor bolts shall be formed in substructure by placing and setting with templates, 4"x15" wells.



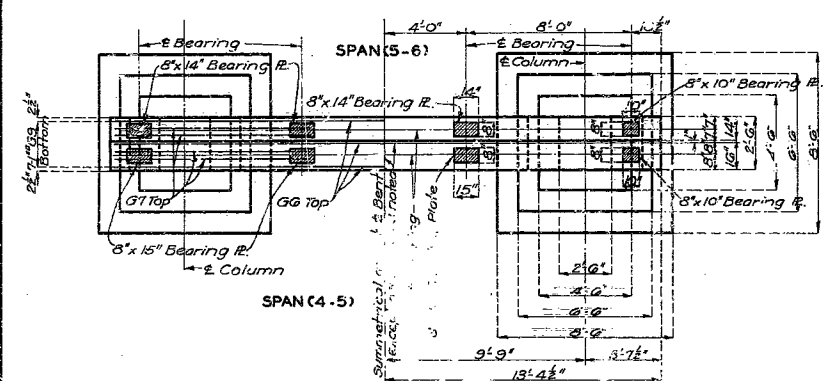
ANCHOR BOLT PLAN

Note: All bearing areas on bents and piers under and extending 2" beyond edges of bearings are to be built monolithically with bents 8" above plan elevation. These areas shall be ground with carborundum brick to horizontal plane surfaces at plan elevation and shall be adequately protected until lead plates and bearings are in place. Cost of lead plates shall be included in the price bid for structural steel.



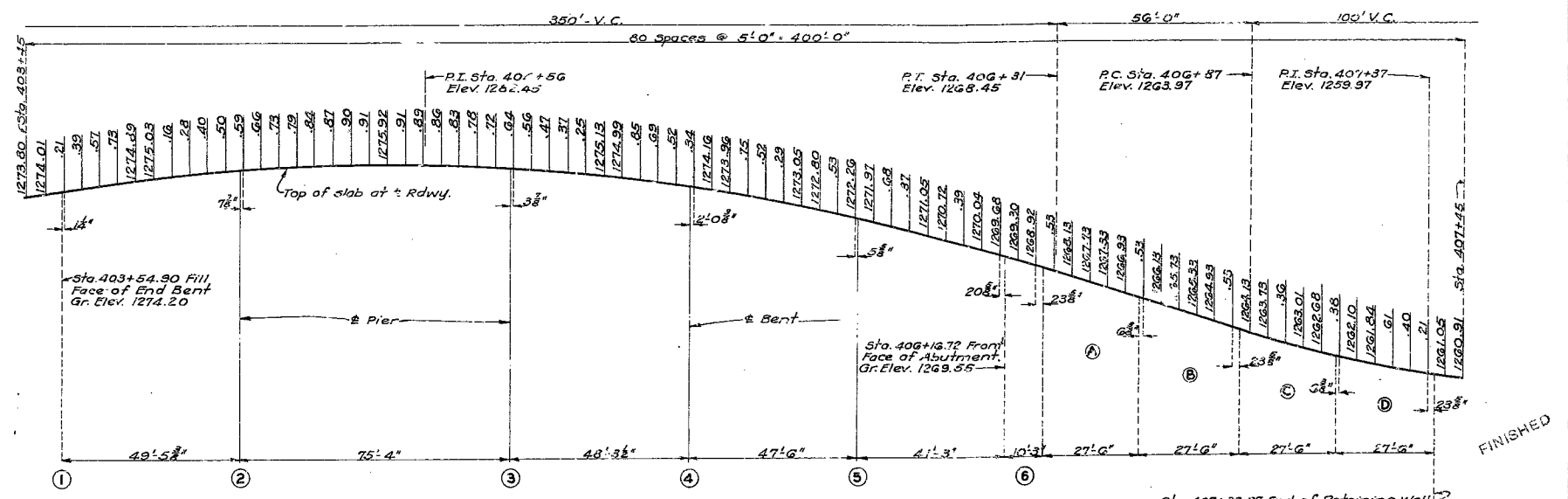
ELEVATION

SECTION A-A



PLAN

DETAILS OF BENT NO. 5



GRADE AT ROADWAY

BRIDGE OVER ST. L.-S.F.R. TRACKS

STATE ROAD FROM DOUGLAS CO. LINE TO WILLOW SPRINGS
AT WILLOW SPRINGS
PROJECT NO. FAGM 2-D (1) (SH) STA. 403+54.90

HOWELL COUNTY

K-789

Drawn Feb. 1939 by D.K.M.
Traced Apr. 1939 by G.W.
Checked May 1939 by H.D. & R.J.

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

Sheet No. 5A of 6

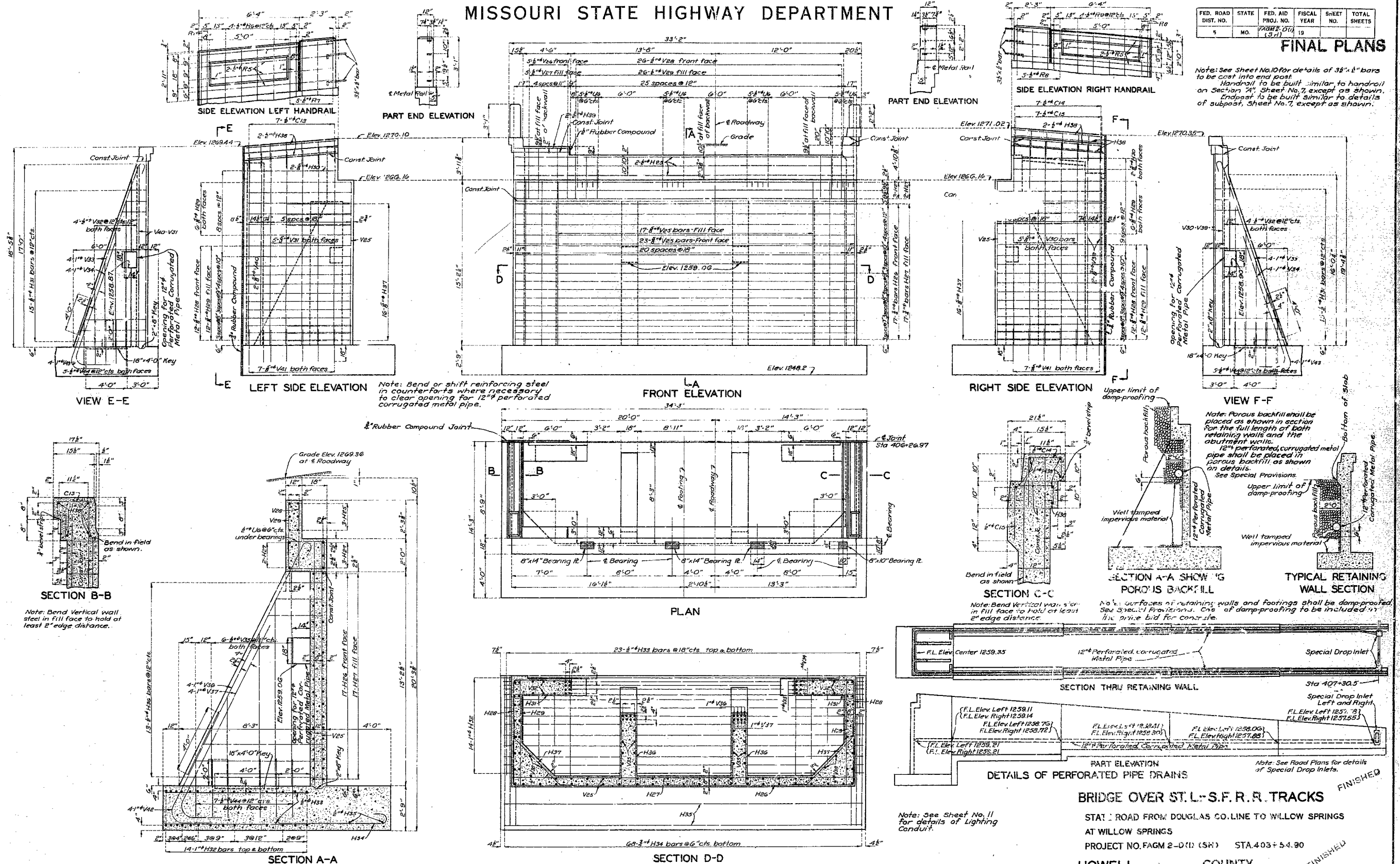
FINAL PLANS

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	PA202-011 (S. 11)	19		

FINAL PLANS

Note: See Sheet No. 10 for details of 38" x 8" bars to be cast into end post. Handrail to be built similar to handrail on Section 24, Sheet No. 7 except as shown. Endpost to be built similar to details of subpost, Sheet No. 7, except as shown.



DETAILS OF ABUTMENT NO. 6

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

Sheet No. GA of G.

FINAL PLANS

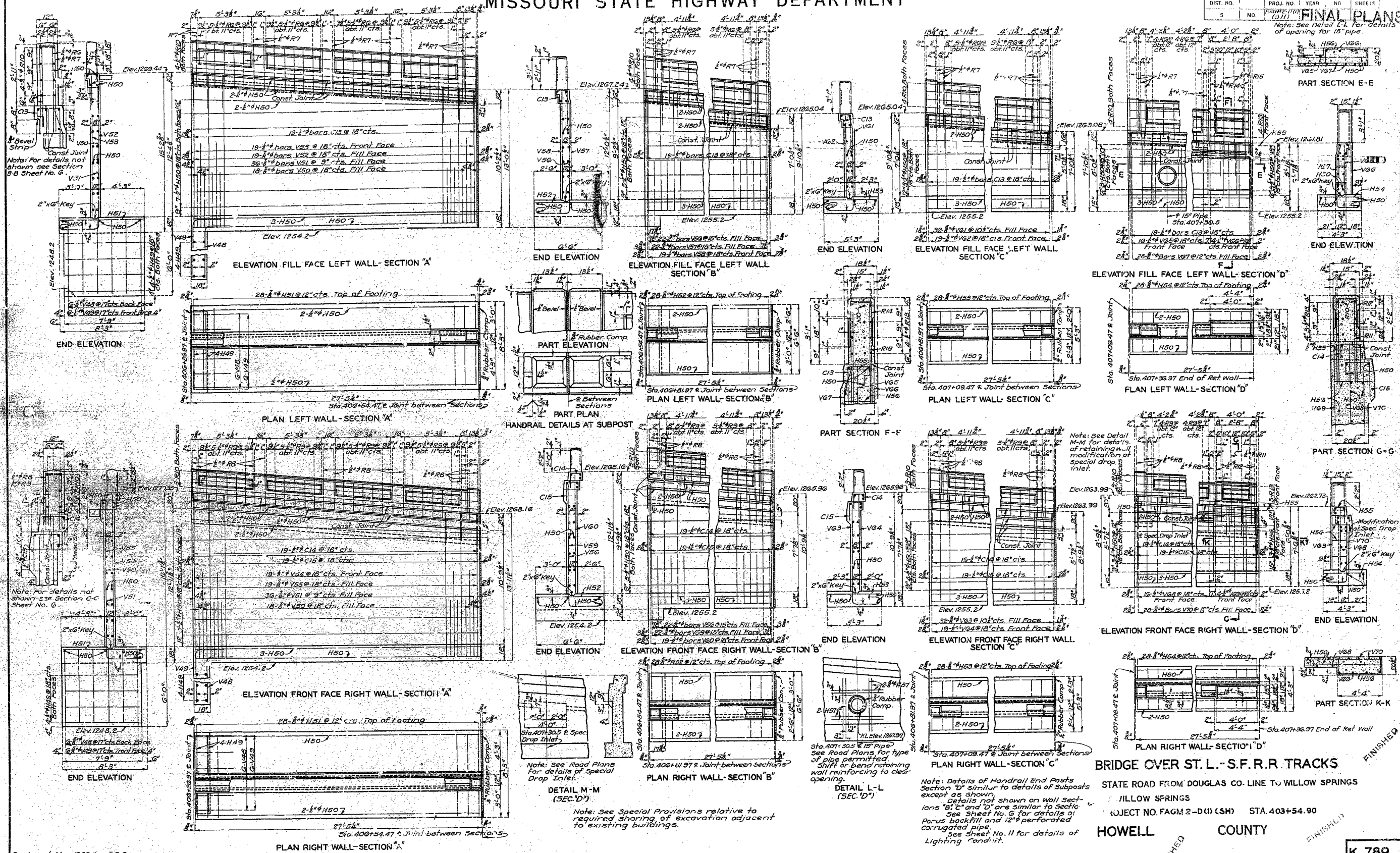
K-789

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO	1000-100	1939	74	75

FINAL PLANS

Note: See detail L-L for details of opening for 15" pipe.



Designed Mar. 1939 by J.C.S.
 Drawing Mar. 1939 by J.C.S.-D.K.M.
 Traced Apr. 1939 by G.W.
 Checked June 1939 by H.D.

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

Note: See Special Provisions relative to required shoring of excavation adjacent to existing buildings.

DETAIL L-L (SEC. D')

Note: Details of Handrail End Posts Section "D" similar to details of Subposts except as shown. Details not shown on wall sections "B" and "C" are similar to section "A". See Sheet No. 75 for details of Porus backfill and 12" perforated corrugated pipe. See Sheet No. 11 for details of Lighting conduit.

BRIDGE OVER ST. L.-S.F.R.R. TRACKS

STATE ROAD FROM DOUGLAS CO. LINE TO WILLOW SPRINGS

WILLOW SPRINGS

PROJECT NO. FAGM 2-D (1) (SH) STA. 403+54.90

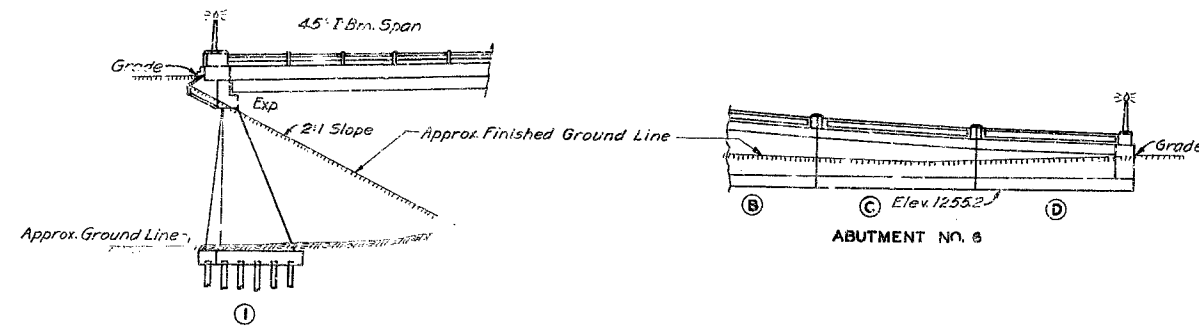
HOWELL COUNTY

K-789

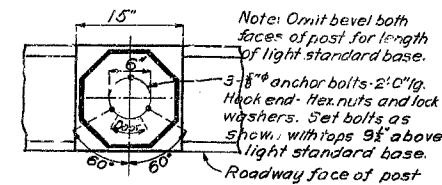
FINAL PLANS

MISSOURI STATE HIGHWAY DEPARTMENT

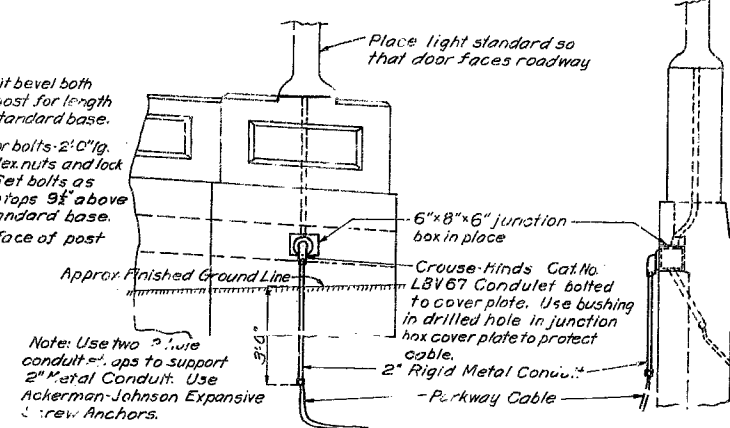
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5	10	1940	19	



PART GENERAL ELEVATION



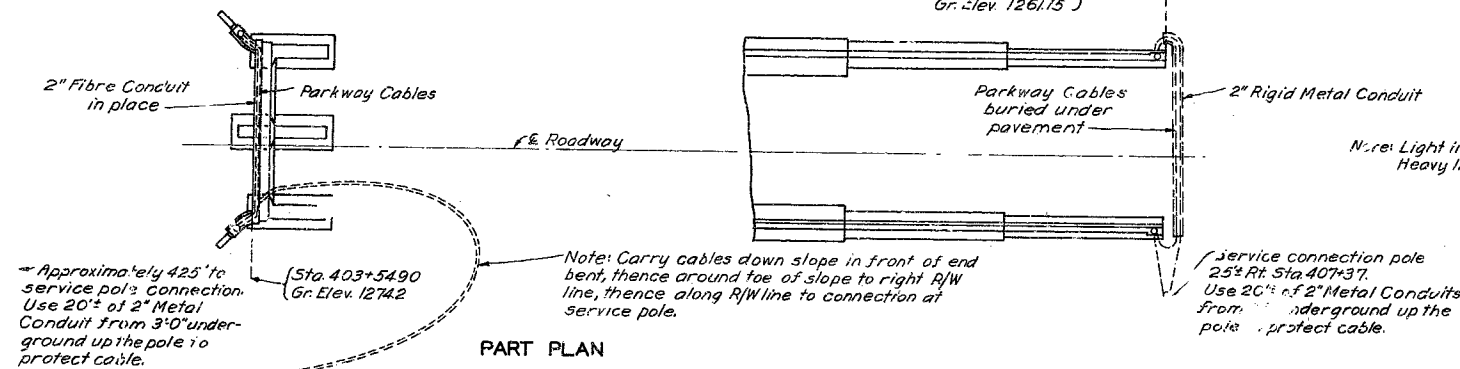
PLAN OF ANCHOR BOLTS FOR LIGHT STANDARDS



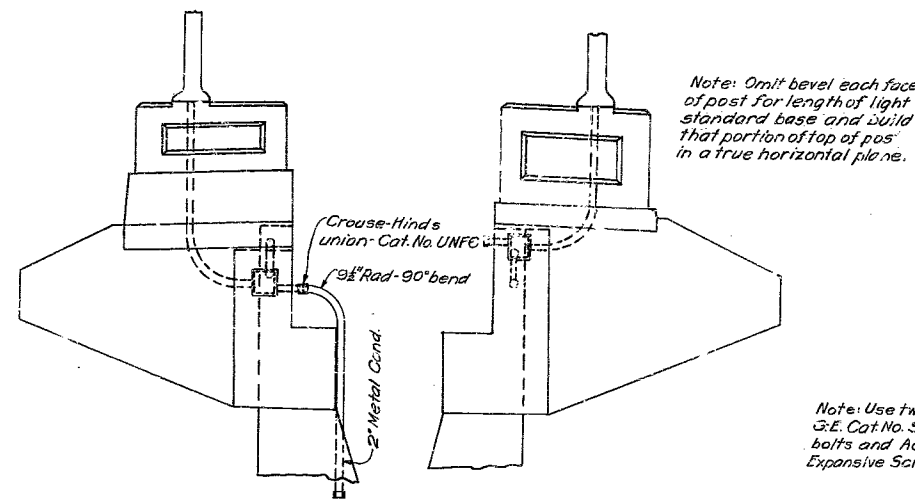
PART ELEVATION

PART SECTION

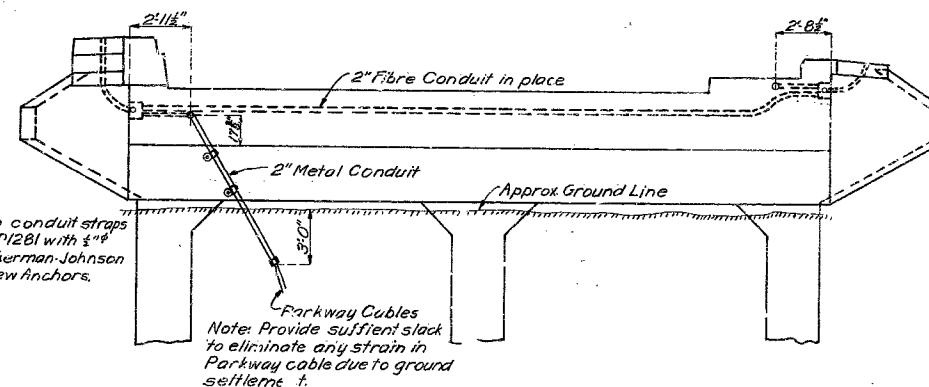
DETAILS AT END OF RETAINING WALL ON RIGHT



PART PLAN



PART DEVELOPED ELEVATION OF WINGS



PART ELEVATION

GENERAL NOTES:-

- Parkway cable shall be General Electric - R.R. Tellurium-Rubber Parkway cable, Cat. # 51-58006 - Single conductor, #6 AWG, stranded, 30% rubber insulation - 5000 volt.
- Light standards shall be Union Metal Standards as General Electric Cat. # 1122 X9 with Type F Casing, Form B Luminaire with No. 127 globe and No. 1127 Canopy.
- Conduit to be 2" Rigid Metal Conduit.
- Bushings shall be used on open ends of all conduits.
- Upper ends of 2" Conduit on service poles shall be equipped with entrance caps as General Electric Cat. No. 5P1530.
- An approved equivalent may be substituted for any item designated as 'from a particular manufacturer'.
- Contractor shall ascertain and for verify in field length of conduit, cable and fittings necessary to the proper installation of the work before ordering material.

DETAILS AT ABUTMENT NO. 1

BRIDGE OVER ST.L.-S.F.R.R. TRACKS

STATE ROAD FROM DOUGLAS COUNTY LINE TO WILLOW SPRINGS

AT WILLOW SPRINGS

PROJECT NO. FAGM 2-D (1) (24) STA. 403+54.90

HOWELL

COUNTY

Drawn April 1940 by C.S.A.
Traced April 1940 by C.S.A.
Checked Apr. 1940 by C.L.S.

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

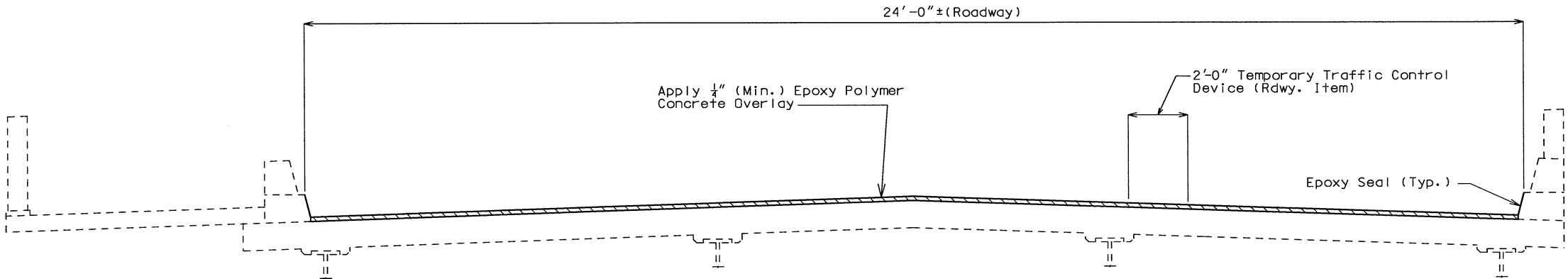
Sheet No. 1 of 1.

K-789A

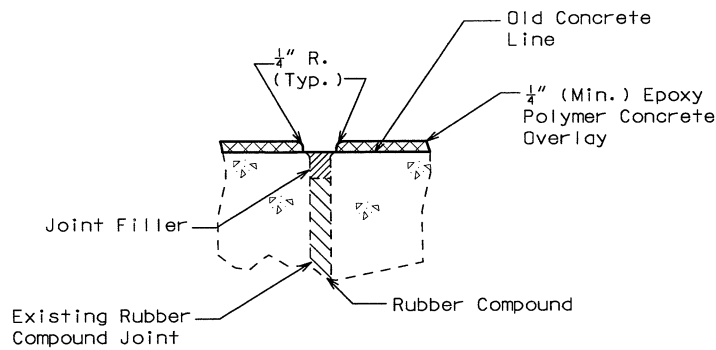
MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

U.I.P. EXISTING (45') I-BEAM SPAN, (75') PLATE GIRDER SPAN, (45') (45') (40') I-BEAM SPANS

State	Proj. No.	Sheet No.
MO	J9M0036	B4
SEC/SUR 30	TWP 27N	RGE 9W



SECTION THRU SLAB



TYPICAL SECTION FOR RUBBER COMPOUND JOINTS

FINAL QUANTITIES		
ITEM		TOTAL
Epoxy Polymer Concrete Overlay (Includes approach slab quantities)	sq. yard	1067 ✓

GENERAL NOTES:

- Design Specifications:
2002 - AASHTO 17th Edition
- Traffic:
Traffic over structure to be maintained during construction. (See roadway plans for traffic control)
- Miscellaneous:
In order to maintain grade and a minimum thickness of overlay as shown on plans it may be necessary to use additional quantities of overlay at various locations throughout the structure. No payment will be allowed for additional labor, materials or equipment for variations in thickness of overlay.
- Outline of old work is indicated by dashed lines, heavy lines indicate new work.
- Contractor shall verify all dimensions in field before ordering new materials.
- All exposed edges of overlay shall have a 1/4" radius, unless otherwise noted.
- The contractor shall exercise care to ensure spillage over joint edges is prevented and that a neat line is obtained along any terminating edge of the epoxy polymer concrete.

FINAL PLANS


I CERTIFY THAT THIS PLAN SHEET ACCURATELY DEPICTS THE CONFIGURATION AND LOCATION OF THE ROADWAY AND ALL ITS APPURTENANT FEATURES, TO THE BEST OF MY KNOWLEDGE, AS I AND MY STAFF HAVE OBSERVED THE CONTRACTOR'S CONSTRUCTION OF THIS PROJECT. I SPECIFICALLY DISCLAIM ANY RESPONSIBILITY FOR THE DESIGN OF THIS PROJECT, EXCEPT AS I AND MY STAFF MAY HAVE MODIFIED OR AUTHORIZED THE MODIFICATION OF THE PROJECT DESIGN DURING ITS CONSTRUCTION. I ACCEPT NO RESPONSIBILITY FOR THE CONTRACTOR'S ACTUAL CONSTRUCTION OF THE PROJECT, EXCEPT AS I AND MY STAFF MAY HAVE DIRECTED OR ORDERED THAT THE PROJECT BE CONSTRUCTED.


Elmer K. Rumb
REGISTERED PROFESSIONAL ENGINEER
E-27083
12/05


REPAIRS TO BRIDGE OVER ST. L. - S.F. R.R. TRACKS

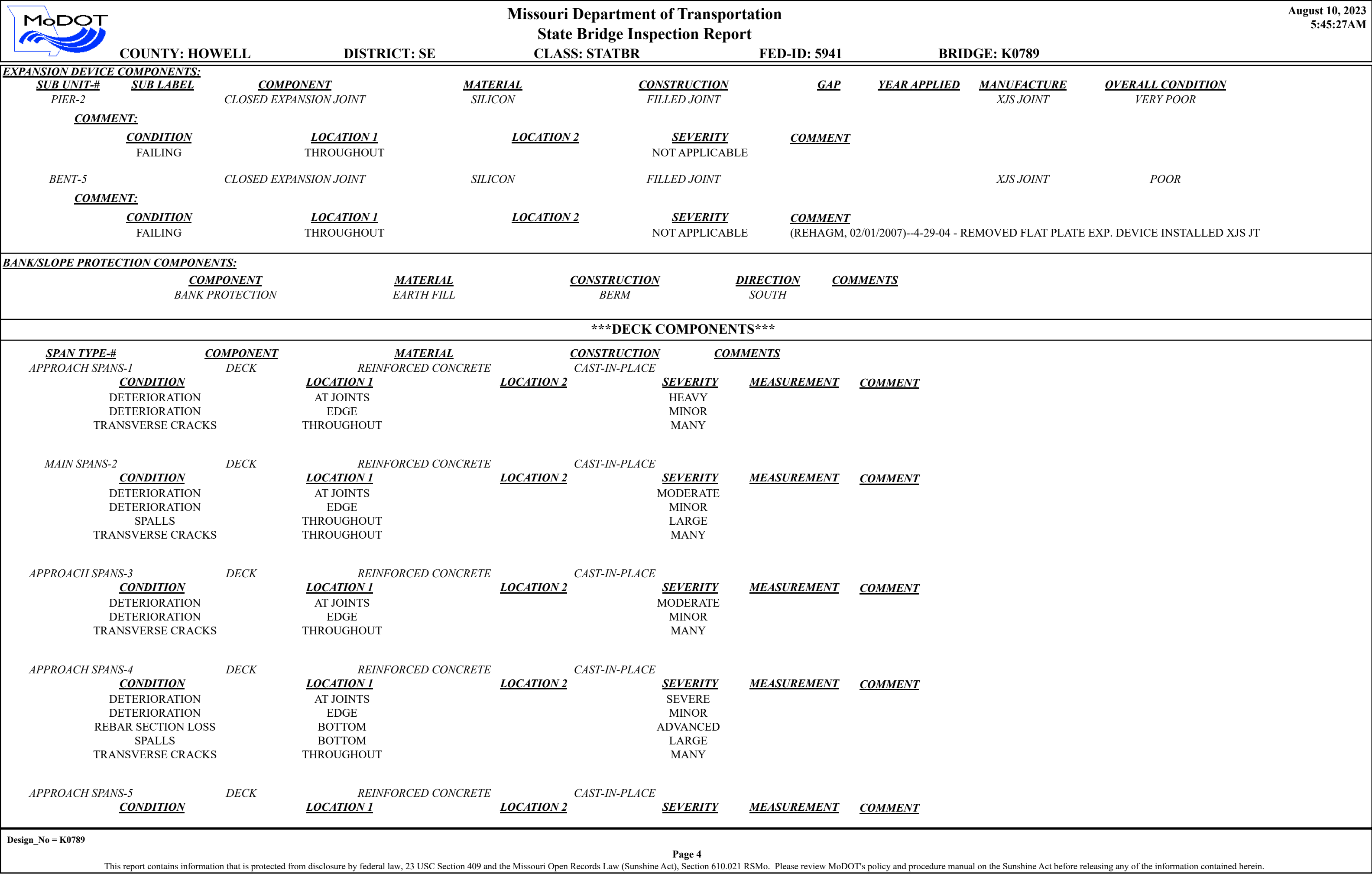
STATE ROAD FROM DOUGLAS COUNTY LINE TO WILLOW SPRINGS
AT WILLOW SPRINGS
PROJECT NO. J9M0036 STA. 403+54.90± (Match Existing)
JOB NO. J9M0036 RTE. 137
CONTRACT ID: 040521-901

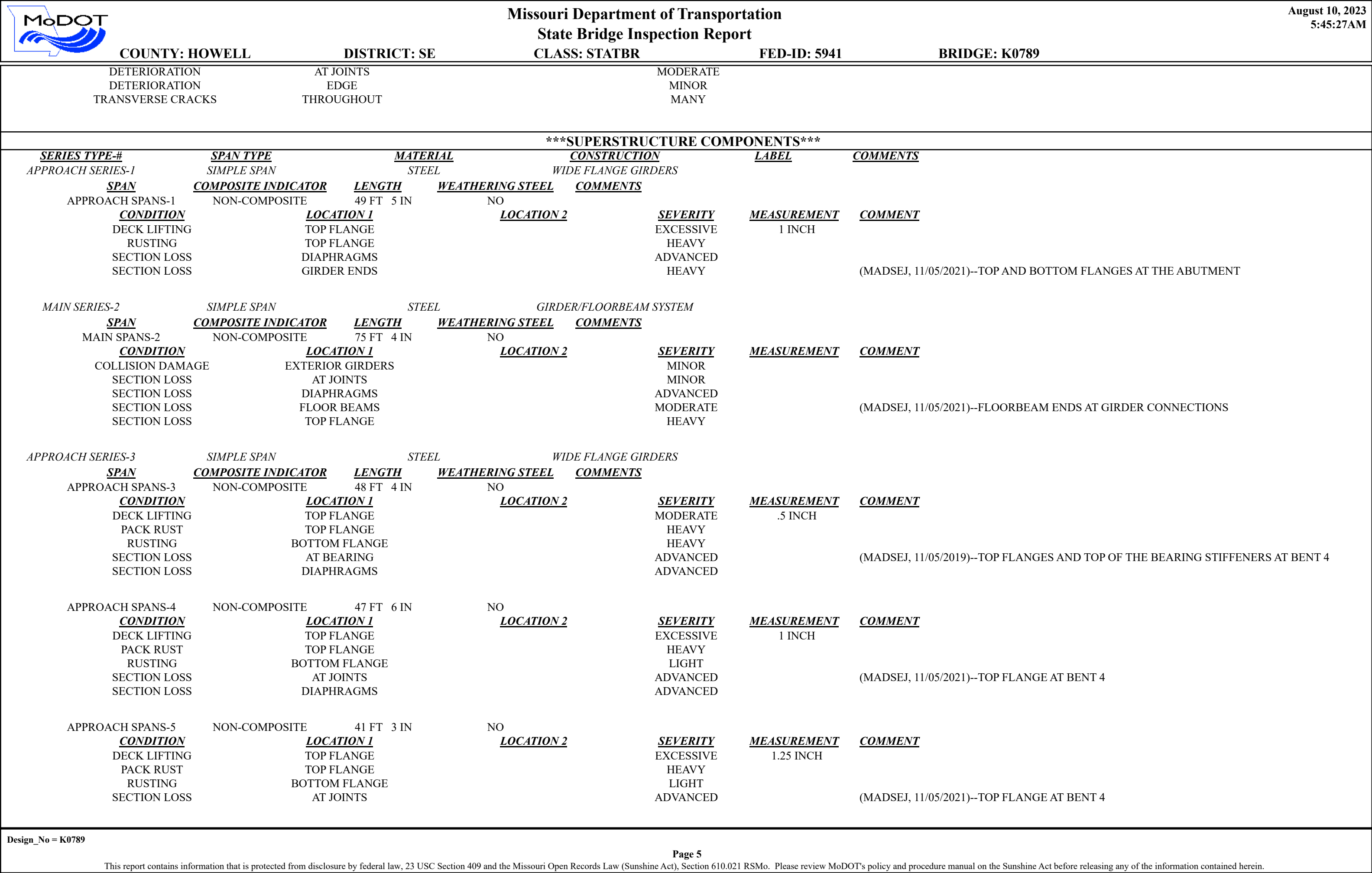
HOWELL COUNTY K07891


		<div>Missouri Department of Transportation</div> <div>State Bridge Inspection Report</div>				<div>August 10, 2023</div> <div>5:45:27AM</div>			
COUNTY: HOWELL		DISTRICT: SE		CLASS: STATBR		FED-ID: 5941		BRIDGE: K0789	
GENERAL STRUCTURE INFORMATION							***BRIDGE INSPECTION INFORMATION***		
<div>ROUTE: MO137S</div> <div>FEATURE: CST FIRST ST, BNSF RR</div> <div>STATUS: P-POSTLOAD</div> <div>LOG MILE: 42.361</div> <div>DETOUR: 4.00 MILES</div> <div>NHS: NO</div> <div>BUILT: 1939</div> <div>REHAB: 2004</div> <div>LOCATION: S 30 T 27 R 9 W</div> <div>LATITUDE: 36 59 27.89 (DMS)</div> <div>LONGITUDE: 91 58 12.77 (DMS)</div>		<div># SPANS: 5</div> <div>LANES ON: 2</div> <div>LANES UNDER: 2</div> <div>COMPASS DIRECTION: SOUTH to NORTH</div> <div>DIRECTION OF TRAFFIC: 2-WAY TRAF</div> <div>FUNCTIONAL CLASS: RL-MAJOR COLLECTOR</div> <div>NBI OWNER: MODOT</div> <div>NBI MAINTAINED: MODOT</div> <div>MAINTENANCE DISTRICT: SE</div> <div>MAINTENANCE COUNTY: HOWELL</div> <div>SUB AREA: 7H51</div>		<div>PLACE CODE: 80098 WILLOW SPRINGS CITY</div> <div>LENGTH: 264 FT 0 IN</div> <div>MAXIMUM SPAN: 75 FT 4 IN</div> <div>APPROACH ROADWAY: 24 FT 0 IN</div> <div>CURB TO CURB: 24 FT 0 IN</div> <div>OUT TO OUT: 32 FT 4 IN</div> <div>AADT: 3464</div> <div>AADT YEAR: 2022</div> <div>AADT TRUCK: 8.1%</div> <div>FUTURE AADT: 5196</div> <div>FUTURE AADT YEAR: 2042</div>		<div>DATE: 10/27/2021</div> <div>RESPONSIBILITY: BRIDGEDIV</div> <div>FREQUENCY: 24</div> <div>CALCULATED INTERVAL**: 24</div> <div>TEAM LEADER: CURT RICKERSON</div> <div>INSPECTOR 2: KEVIN WEGENER</div> <div>INSPECTOR 3: KEVIN RAITHEL</div> <div>** When calculated interval exceeds the frequency, a justification comment per BIRM is required.</div>			
						GENERAL INSPECTION COMMENTS			
FRACTURE CRITICAL INSPECTION INFORMATION					***INDEPTH INSPECTION INFORMATION***				
<div>DATE: 10/27/2021</div> <div>RESPONSIBILITY: BRIDGEDIV</div> <div>FREQUENCY: 24</div> <div>CALCULATED INTERVAL**: 24</div> <div>TEAM LEADER: CURT RICKERSON</div> <div>INSPECTOR 2: KEVIN WEGENER</div> <div>** When calculated interval exceeds the frequency, a justification comment per BIRM is required.</div>					<div>DATE:</div> <div>RESPONSIBILITY:</div> <div>FREQUENCY:</div> <div>CALCULATED INTERVAL**:</div> <div>TEAM LEADER:</div> <div>INSPECTOR 2:</div> <div>CATEGORY: 2-GIRDER SYSTEM</div> <div>NBI: YES</div> <div>METHOD: PLATFORMTK, SNOOPER</div> <div>** When calculated interval exceeds the frequency, a justification comment per BIRM is required.</div>				
FRACTURE CRITICAL INSPECTION COMMENTS					INDEPTH INSPECTION COMMENTS				
SPECIAL INSPECTION INFORMATION					***UNDERWATER INSPECTION INFORMATION***				
<div>DATE: 04/13/2011</div> <div>RESPONSIBILITY: BRIDGEDIV</div> <div>FREQUENCY: 999</div> <div>CALCULATED INTERVAL**:</div> <div>TEAM LEADER:</div> <div>INSPECTOR 2: PATRICK MARTENS</div> <div>INSPECTOR 3:</div> <div>INSPECTOR 4:</div> <div>** When calculated interval exceeds the frequency, a justification comment per BIRM is required.</div>					<div>DATE:</div> <div>RESPONSIBILITY:</div> <div>FREQUENCY:</div> <div>CALCULATED INTERVAL**:</div> <div>TEAM LEADER:</div> <div>INSPECTOR 2:</div> <div>CATEGORY: QUALITY ASSURANCE</div> <div>NBI: NO</div> <div>METHOD:</div> <div>** When calculated interval exceeds the frequency, a justification comment per BIRM is required.</div>				
SPECIAL INSPECTION COMMENTS					UNDERWATER INSPECTION COMMENTS				
(MARTEP, 04/15/2011)--SBIE FIELD REVIEW									
OTHER SPECIAL INSPECTIONS					OTHER UNDERWATER INSPECTIONS				
<div>DATE</div> <div>FREQUENCY</div> <div>CATEGORY</div> <div>NBI</div> <div>CALCULATED INTERVAL</div> <div>RESPONSIBILITY</div> <div>METHOD</div>					<div>DATE</div> <div>FREQUENCY</div> <div>CATEGORY</div> <div>NBI</div> <div>CALCULATED INTERVAL</div> <div>RESPONSIBILITY</div> <div>METHOD</div>				
Design_No = K0789									
<div>Page 1</div> <div>This report contains information that is protected from disclosure by federal law, 23 USC Section 409 and the Missouri Open Records Law (Sunshine Act), Section 610.021 RSMo. Please review MoDOT's policy and procedure manual on the Sunshine Act before releasing any of the information contained herein.</div>									

		Missouri Department of Transportation			August 10, 2023	
		State Bridge Inspection Report			5:45:27AM	
COUNTY: HOWELL		DISTRICT: SE	CLASS: STATBR	FED-ID: 5941	BRIDGE: K0789	
STRUCTURE POSTING						
APPROVED CATEGORY: S-15		TRUCK WEIGHT LIMIT 35 TONS EXCEPT SINGLE UNIT TANDEM REAR AXLE TRUCKS 20 TONS WEIGHT LIMIT				
Ton 1: 35		Ton 2: 20		Ton 3:		
COMMENTS:						
FIELD CATEGORY: S-15		TRUCK WEIGHT LIMIT 35 TONS EXCEPT SINGLE UNIT TANDEM REAR AXLE TRUCKS 20 TONS \				
Ton 1: 35		Ton 2: 20		Ton 3:		PROBLEM:
COMMENTS:		PROBLEM DIRECTION:				
GENERAL COMMENTS/MAJOR RATED ITEMS						
GENERAL COMMENTS: (BOWDEJ1, 12/03/2009)--(49') SMP WF - (75') SMP THRU PL GDR - (48'-47'-41') SMP WF GDR SPANS (2-GDR NON-RED & RIVETED) (NO STRG'S IN THRU PL GDR SPAN)						
[ITEM 58] DECK: 4-POOR CONDITION		COMMENTS: (MADSEJ, 11/05/2021)--LARGE, HEAVY SPALLING AT ALL JOINTS WITH REBAR EXPOSED & ADVANCED SECTION LOSS OF THE REBAR				
RATING : 10/30/2019						
[ITEM 59] SUPER: 3-SERIOUS CONDITION		COMMENTS: (RICKEC, 10/28/2021)--SPANS 4 AND 5 GIRDERS TOP FLANGES WITH SEVERE SECTION LOSS OF 60% TO 100%				
RATING : 10/28/2021		THROUGHOUT SEVERAL GIRDERS WITH MED SECTION LOSS IN WEB AT BOTTOM FLANGES.				
[ITEM 60] SUB: 5-FAIR CONDITION		COMMENTS: (MARTEP, 04/15/2011)--GENERAL DETERIORATION OF BENT 2.				
RATING : 04/15/2011						
[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: 6-SATISFACTORY		COMMENTS:				
RATING : 05/18/2001						
RAILING AND APPROACH PAVEMENT COMPONENTS AND RATINGS						
[ITEM 36A] BRIDGE RAILING RATING: DOESNT MEET CURRNT STND-0		RATING : 01/26/2009		COMMENTS:		
<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>DIRECTION</u>	<u>COMMENTS</u>			
REINFORCED CONCRETE	SIDEWALKS	EAST				
REINFORCED CONCRETE	CURB	BOTH				
GALVANIZED STEEL	OTHER RAILING	BOTH				
[ITEM 36B] TRANSITION RAILING RATING: NOT PROVIDED-0		RATING : 05/18/2001		COMMENTS:		
[ITEM 36C] APPROACH RAILING RATING: NOT PROVIDED-0		RATING : 05/18/2001		COMMENTS:		
Design_No = K0789						
Page 2						
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		State Bridge Inspection Report			5:45:27AM	
COUNTY: HOWELL		DISTRICT: SE	CLASS: STATBR	FED-ID: 5941	BRIDGE: K0789	
[ITEM 36D] RAIL END TREATMENT RATING: NOT PROVIDED-0		RATING : 05/18/2001	COMMENTS:			
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			
<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>COMMENT</u>	
PATCHES		AT ABUTMENTS		LARGE	(MARTEP, 04/15/2011)--NORTH APPROACH	
SPALLS		RANDOM		MANY		
DRAINAGE, EXPANSION DEVICES, BANK/SLOPE, AND DECK PROTECTIVE COMPONENTS						
<u>DECK PROTECTIVE COMPONENTS:</u>						
<u>SERIES TYPE-#</u>	<u>COMPONENT</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>THICKNESS</u>	<u>YEAR APPLIED</u>	<u>MANUFACTURE</u>
APPROACH SERIES-1	WEARING SURFACE	EPOXY POLYMER	EPOXY POLYMER	.25 IN		
<u>COMMENT:</u>						
	DECK PROTECTION	NOTAPPLICABLE	NONE			
<u>COMMENT:</u>						
	MEMBRANE	NOTAPPLICABLE	NONE			
<u>COMMENT:</u>						
MAIN SERIES-2	WEARING SURFACE	EPOXY POLYMER	EPOXY POLYMER	.3 IN		POOR
<u>COMMENT:</u>						
	DECK PROTECTION	NOTAPPLICABLE	NONE			
<u>COMMENT:</u>						
	MEMBRANE	NOTAPPLICABLE	NONE			
<u>COMMENT:</u>						
APPROACH SERIES-3	WEARING SURFACE	EPOXY POLYMER	EPOXY POLYMER			POOR
<u>COMMENT:</u>						
	DECK PROTECTION	NOTAPPLICABLE	NONE			
<u>COMMENT:</u>						
	MEMBRANE	NOTAPPLICABLE	NONE			
<u>COMMENT:</u>						
<u>DRAINAGE COMPONENTS:</u>						
	<u>COMPONENT</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>DIRECTION</u>	<u>COMMENTS</u>	
Design_No = K0789						
Page 3						
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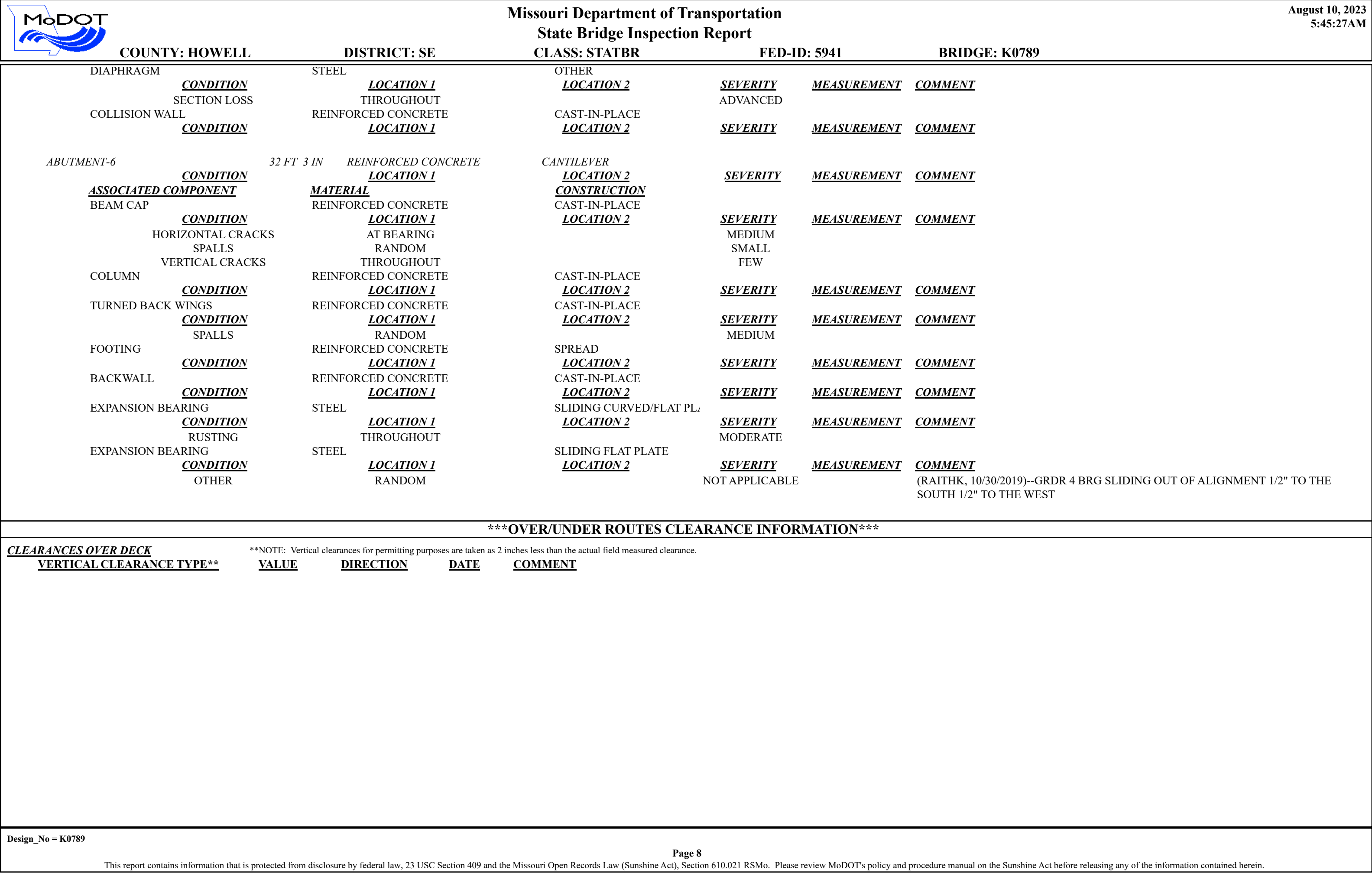
		Missouri Department of Transportation				August 10, 2023	
		State Bridge Inspection Report				5:45:27AM	
COUNTY: HOWELL		DISTRICT: SE		CLASS: STATBR	FED-ID: 5941	BRIDGE: K0789	
SUBSTRUCTURE COMPONENTS							
<u>SUBSTRUCTURE</u>	<u>SKEW</u>	<u>LENGTH</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>LABEL</u>	<u>COMMENTS</u>	
ABUTMENT-1		32 FT 10 IN	REINFORCED CONCRETE	OPEN CONCRETE			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
<u>ASSOCIATED COMPONENT</u>			<u>MATERIAL</u>	<u>CONSTRUCTION</u>			
BEAM CAP			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>
	SPALLS		THROUGHOUT		MEDIUM		
COLUMN			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>
FLARED WINGS			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>
TIE BEAM			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>
FOOTING			REINFORCED CONCRETE	TIMBER PILE			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
BACKWALL			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>
	HORIZONTAL CRACKS		THROUGHOUT		FEW		
EXPANSION BEARING			STEEL	SLIDING CURVED/FLAT PL			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
	FROZEN		THROUGHOUT		NOT APPLICABLE		
	PACK RUST		THROUGHOUT		HEAVY		
PIER-2		30 FT 4 IN	REINFORCED CONCRETE	MULTIPLE COLUMN			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
<u>ASSOCIATED COMPONENT</u>			<u>MATERIAL</u>	<u>CONSTRUCTION</u>			
BEAM CAP			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>
	SPALLS		THROUGHOUT		FEW		
COLUMN			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>
FOOTING			REINFORCED CONCRETE	TIMBER PILE			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
COLLISION WALL			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>
EXPANSION BEARING			STEEL	ROCKER			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
	PACK RUST		THROUGHOUT		MEDIUM		
DIAPHRAGM			STEEL	OTHER			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
	SECTION LOSS		THROUGHOUT		ADVANCED		
PIER-3		30 FT 4 IN	REINFORCED CONCRETE	MULTIPLE COLUMN			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
<u>ASSOCIATED COMPONENT</u>			<u>MATERIAL</u>	<u>CONSTRUCTION</u>			
BEAM CAP			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>
	SPALLS		BOTTOM	THROUGHOUT	FEW		
COLUMN			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>

Design_No = K0789

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COUNTY: HOWELL		DISTRICT: SE		CLASS: STATBR		FED-ID: 5941	
						BRIDGE: K0789	
FOOTING	SPALLS	THROUGHOUT			MEDIUM		
	VERTICAL CRACKS	THROUGHOUT			LARGE		
		REINFORCED CONCRETE	TIMBER PILE				
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
	COLLISION WALL	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>	
	FIXED BEARING	STEEL	PEDESTAL(ROTATING)				
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
	DIAPHRAGM	STEEL	OTHER				
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
BENT-4	SECTION LOSS	THROUGHOUT			ADVANCED		
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
	<u>ASSOCIATED COMPONENT</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>				
	BEAM CAP	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>	
	DELAMINATION	THROUGHOUT			FEW		
	DETERIORATION	ENDS			MODERATE		
	COLUMN	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>	
FOOTING	SPALLS	THROUGHOUT			FEW		
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
	COLLISION WALL	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>	
	EXPANSION BEARING	STEEL	SLIDING CURVED/FLAT PL				
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
	RUSTING	THROUGHOUT			MODERATE		
	EXPANSION BEARING	STEEL	SLIDING FLAT PLATE				
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
	RUSTING	THROUGHOUT			MODERATE		
DIAPHRAGM		STEEL	OTHER				
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
	RUSTING	THROUGHOUT			HEAVY		
	SECTION LOSS	THROUGHOUT			ADVANCED		
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
	<u>ASSOCIATED COMPONENT</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>				
	BEAM CAP	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>	
	HIGH STEEL SPALLS	THROUGHOUT			MANY		
COLUMN		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>	
	DELAMINATION	RANDOM			MODERATE		
	SPALLS	RANDOM			LARGE		
	FOOTING	REINFORCED CONCRETE	SPREAD				
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
	EXPANSION BEARING	STEEL	SLIDING CURVED/FLAT PL				
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
	RUSTING	THROUGHOUT			MODERATE		
BENT-5							
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
	<u>ASSOCIATED COMPONENT</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>				
	BEAM CAP	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>	
	HIGH STEEL SPALLS	THROUGHOUT			MANY		
	COLUMN	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>	
	DELAMINATION	RANDOM			MODERATE		
	SPALLS	RANDOM			LARGE		
FOOTING		REINFORCED CONCRETE	SPREAD				
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
	EXPANSION BEARING	STEEL	SLIDING CURVED/FLAT PL				
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
	RUSTING	THROUGHOUT			MODERATE		
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
	<u>ASSOCIATED COMPONENT</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>				
	BEAM CAP	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>	





COUNTY: HOWELL

DISTRICT: SE

CLASS: STATBR

FED-ID: 5941

BRIDGE: K0789

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 FIRST ST S	2	2-WAY TRAF	4 FT 0 IN		13198
<u>VERTICAL CLEARANCE TYPE**</u>	<u>VALUE</u>	<u>DIRECTION</u>	<u>DATE</u>	<u>COMMENT</u>		
ACTUAL	13 FT 11 IN					

<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>
2	BNSF RR				8 FT 7 IN		13199
<u>VERTICAL CLEARANCE TYPE**</u>	<u>VALUE</u>	<u>DIRECTION</u>	<u>DATE</u>	<u>COMMENT</u>			
PLANNED	21 FT 0 IN						

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

CONDITION: FAIR

RUST AMOUNT: 7 = .2% OF SURFACE RUSTED

STEEL TONS : 144

ORIGINAL PAINT

CONTRACT REPAINT

DEPARTMENT REPAINT

PAINT TYPE :
NAME :
PAINT COLOR :
PAINT YEAR :
MILS :

PAINT TYPE :
NAME :
PAINT COLOR :
PAINT YEAR :
MILS :

PAINT TYPE : C SYSTEM
NAME : INORGANIC ZINC/VINYL
PAINT COLOR : GREEN
PAINT YEAR : 1995
MILS : 9

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 SPECIAL	SEE COMMENT	MISCELLANEOUS	SUPERSTRUCTURE	2	10/30/2019	(DENNIB1, 12/27/2012)--REPLACE RIVET WITH BOLT EAST END OF FLOORBEAM # 4 OF SPAN #2
DISTRICT ROUTINE	ROADWAY SURFACE	SEAL JTS - RODS/HOT POUR	DECK	2	10/30/2019	
DISTRICT SPECIAL	BENT JOINT	REPAIR DECK JOINTS W/CONC	DECK	2	10/30/2019	
DISTRICT SPECIAL	NORTH	REPAIR ABUT BACKWALL	SUBSTRUCTURE	2	10/30/2019	
DISTRICT SPECIAL	BENT JOINT	REPLACE JOINTS	DECK	2	10/30/2019	(HAGEMD1, 10/30/2015)--JOINT AT BENT 2 NEEDS REPLACED
DISTRICT SPECIAL	ALL BRG'S	CLEAN, PAINT, AND RESET	SUBSTRUCTURE	2	10/30/2019	(HAGEMD1, 10/30/2015)--ALL CURVED PLATE BEARINGS NEED TO BE CLEANED, PAINTED AND RESET.
FURTHER ACTION REQUIRED	SUPER-GIRDERS	REPAIR GIRDER ENDS	SUPERSTRUCTURE	2	10/30/2019	(RICKEC, 10/28/2021)--SPANS 4 AND 5 GRIDERS TOP FLANGES OVER BENTS WITH SEVERE SECTION LOSS OF 60% TO 100%
DISTRICT SPECIAL	SEE COMMENT	REPAIR DECK JOINTS W/CONC	DECK	2	10/30/2019	(WEAVER1, 10/30/2019)--ALL JOINTS NEED FULL DEPTH PATCHING

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

UTILITY	OWNER	METHOD	MEASUREMENT TYPE	VALUE	NUMBER	UTILITY ATTACHMENT COMMENT
---------	-------	--------	------------------	-------	--------	----------------------------

*****PROGRAM NOTES INFORMATION*****

Design_No = K0789

		Missouri Department of Transportation			August 10, 2023																																				
		State Bridge Inspection Report			5:45:27AM																																				
COUNTY: HOWELL		DISTRICT: SE		CLASS: STATBR		FED-ID: 5941	BRIDGE: K0789																																		
<u>YEAR</u> 2026	<u>PROJECT #</u> 9S3801	<u>MONTH LET</u> 0	<u>YEAR LET</u> 2026	<u>ITEMS</u> REPLACE BRIDGE	<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 # 1	SIGN TYPE	PROBLEM	PROBLEM DIRECTION																																	
<table><tr><td><u>Rated Item</u></td><td><u>Rating</u></td><td><u>Rating Date</u></td></tr><tr><td>[Item 67] Structure Evaluation Rating:</td><td>3-BASICALLY INTOL CORRECT</td><td>10/29/2021</td></tr><tr><td>[Item 68] Deck Geometry Rating:</td><td>2-BASICALLY INTOLRBLE REQ</td><td>5/18/2001</td></tr><tr><td>[Item 69] Underclearance:</td><td>2-BASICALLY INTOLRBLE REQ</td><td>2/17/2022</td></tr><tr><td>Sufficiency Rating:</td><td>2.0%</td><td>10/29/2021</td></tr><tr><td>Deficiency:</td><td>STRUCTURAL</td><td>1/18/2019</td></tr><tr><td>Funding Eligibility:</td><td></td><td>----</td></tr><tr><td>Estimated New Structure Length:</td><td></td><td>----</td></tr><tr><td>Estimated Structure Cost:</td><td></td><td>----</td></tr><tr><td>Estimated Total Project Cost:</td><td></td><td>----</td></tr><tr><td>Year of Cost Estimate:</td><td></td><td>----</td></tr></table>					<u>Rated Item</u>	<u>Rating</u>	<u>Rating Date</u>	[Item 67] Structure Evaluation Rating:	3-BASICALLY INTOL CORRECT	10/29/2021	[Item 68] Deck Geometry Rating:	2-BASICALLY INTOLRBLE REQ	5/18/2001	[Item 69] Underclearance:	2-BASICALLY INTOLRBLE REQ	2/17/2022	Sufficiency Rating:	2.0%	10/29/2021	Deficiency:	STRUCTURAL	1/18/2019	Funding Eligibility:		----	Estimated New Structure Length:		----	Estimated Structure Cost:		----	Estimated Total Project Cost:		----	Year of Cost Estimate:		----	***OUTFALL INSPECTION INFORMATION***			
<u>Rated Item</u>	<u>Rating</u>	<u>Rating Date</u>																																							
[Item 67] Structure Evaluation Rating:	3-BASICALLY INTOL CORRECT	10/29/2021																																							
[Item 68] Deck Geometry Rating:	2-BASICALLY INTOLRBLE REQ	5/18/2001																																							
[Item 69] Underclearance:	2-BASICALLY INTOLRBLE REQ	2/17/2022																																							
Sufficiency Rating:	2.0%	10/29/2021																																							
Deficiency:	STRUCTURAL	1/18/2019																																							
Funding Eligibility:		----																																							
Estimated New Structure Length:		----																																							
Estimated Structure Cost:		----																																							
Estimated Total Project Cost:		----																																							
Year of Cost Estimate:		----																																							
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.					# OUTFALLS:	INSPECTOR:																																			
					STATUS:	DATE:																																			
					NOTES:																																				

Design_No = K0789

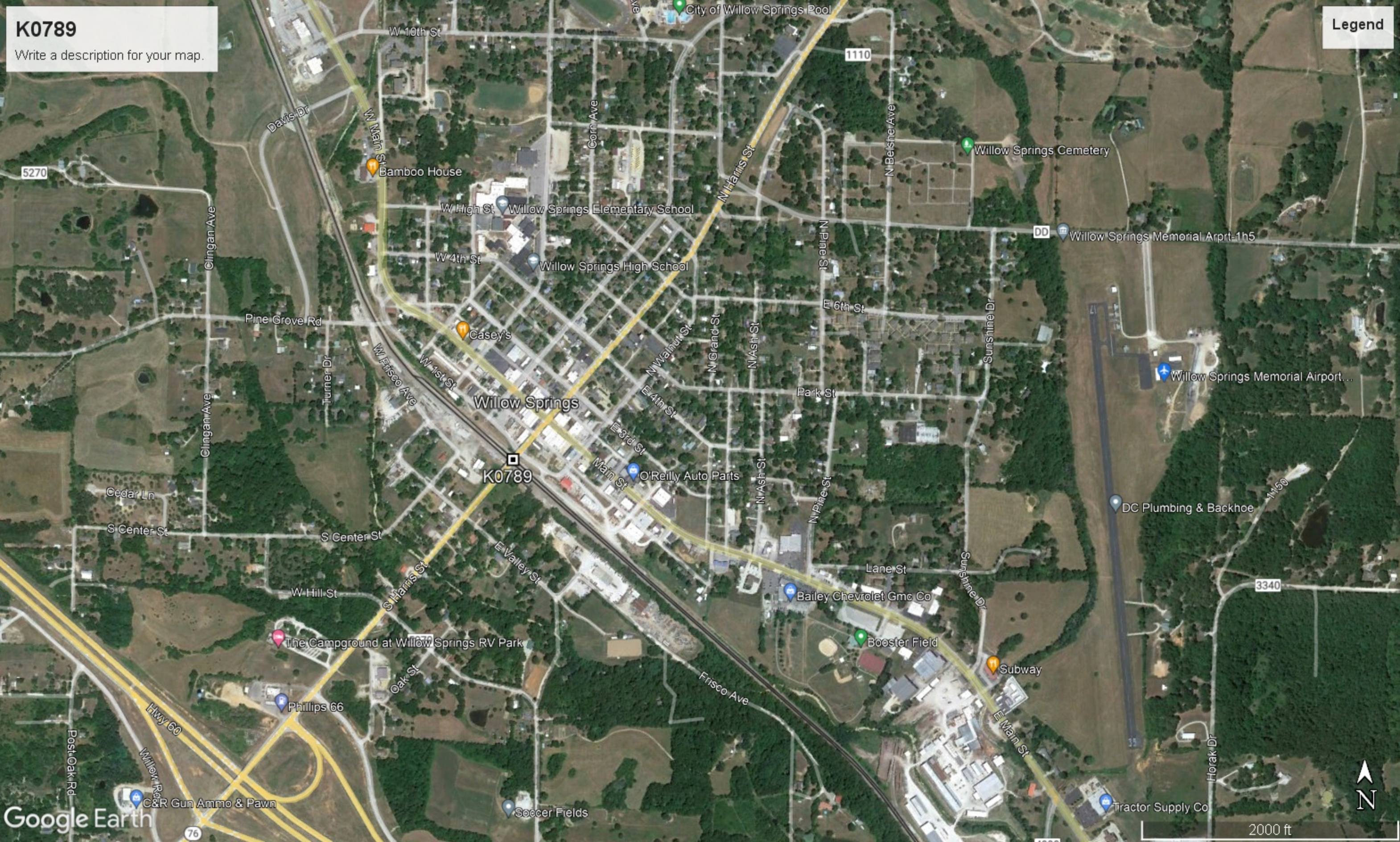
Page 10

This report contains information that is protected from disclosure by federal law, 23 USC Section 409 and the Missouri Open Records Law (Sunshine Act), Section 610.021 RSMo. Please review MoDOT's policy and procedure manual on the Sunshine Act before releasing any of the information contained herein.

K0789

Write a description for your map.

Legend





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

August 10, 2023
5:46:45am

COUNTY : HOWELL BRIDGE : K0789 1 REVIEW STATUS : CONVERTED NBI STATUS : T
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT RUN DATE : 3/6/2023 SUBMITTAL YEAR : 2023

GENERAL STRUCTURE INFORMATION			ROUTE DESIGNATION INFORMATION		
1	State	MISSOURI	5A	Record Type	ROUTE CARRIED 'ON' STRUCT
2	District	SE	5B	Route Signing Prefix	MO
3	County	HOWELL	5C	Designated Level of Service	MAINLINE
8	Federal ID No.	5941	5D	Route Number	00137
27	Year Built	1939	5E	Directional Suffix	NOT APPLICABLE
106	Year Reconstructed	2004	7	Facility Carried	MO 137 S
42A	Type of Service On	HIGHWAY	12	Base Hwy. Network	NO
21	Structure Maintenance	STATE HIGHWAY AGENCY	13A	LRS Inventory Route No.	
22	Structure Owner	STATE HIGHWAY AGENCY	13B	Subroute No.	
33	Br. Median Code	NO MEDIAN	20	Toll Status	ON FREE ROAD
37	Historical Significance	HISTORICAL SIGNIF UNKNWN	26	Functional Classification	07-RURAL MAJOR COLLECTOR
101	Parallel Struc Desg	NONE EXISTS	28A	Lanes on Structure	02
103	Temporary Structure	NOT TEMPORARY	100	STRAHNET Designation	RTE NOT A DEFENSE HWY
112	NBIS Bridge Length	YES	104	National Highway System	NOT ON NHS
			105	Federal Lands Highway	NOT APPLICABLE
			110	Designated Nat. Network	NO
STRUCTURE LOCATION INFORMATION			STRUCTURE TRAFFIC INFORMATION		
4	Place	WILLOW SPRINGS CITY	29	AADT	3464
	Code	80098	30	AADT Year	2022
9	Location	S 30 T 27 N R 9 W	102	Direction of Traffic	2-WAY TRAFFIC
11	Milepoint	42.61 miles	109	AADT Truck Percent	8%
16	Latitude	36 D 59 M 28 S	114	Future AADT	5196
17	Longitude	91 D 58 M 13 S	115	Future AADT Year	2042
UNDERRECORD INFORMATION			STRUCTURE GEOMETRIC INFORMATION		
6	Features Intersected	CST FIRST ST, BNSF RR	10	Inventory Rte. Vert. Clear	99 Ft. 99 In.
42B	Type of Service Under	HIGHWAY-RAILROAD	19	By pass Detour Length	3.75 miles
28B	Lanes Under Structure	02	32	Approach Roadway Width	23 Ft. 11 In.
54A	Vert. Clearance Ref.	HIGHWAY	34	Skew	0.00 Degrees
54B	Vert. Clearance	13 Ft. 11 In.	35	Struct. Flared	NO
55A	Rt. Lat Clear Ref.	HIGHWAY	47	Total Horiz. Clear	23 Ft. 11 In.
55B	Rt. Lat Clearance	3 Ft. 11 In.	48	Maximum Span Length	75 Ft. 6 In.
56	Left Lat Clearance	0 Ft. 0 In.	49	Structure Length	264 Ft. 1 In.
38	Navigation Control	N/A	50A	Left Curb/Sidewalk Width	0 Ft. 8 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	23 Ft. 11 In.
111	Nav. Pier Protection		52	Deck Width (Out-Out)	32 Ft. 2 In.
116	Nav. Cl. Vert. Clear		53	Vert. Clearance Over Deck	99 Ft. 99 In.

Design_No = K0789 and Inventory_Appraisal_Submittal_Year = 2023



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

August 10, 2023
5:46:45am

COUNTY : HOWELL BRIDGE : K0789 1 REVIEW STATUS : CONVERTED NBI STATUS : T
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT RUN DATE : 3/6/2023 SUBMITTAL YEAR : 2023

LOAD RATING AND POSTING INFORMATION				MATERIAL/CONSTRUCTION INFORMATION				
31	Design Load	H 15		43A	Main Struc. Mat type	STEEL		
41	Structure Status	POSTED FOR LOAD		43B	Main struc Constr. Type	GIRDER & FLOORBEAM SYSTEM		
63	Oper. Rating Meth.	ALLOWABLE STRESS		45	# of Main Spans	1		
64	Operating Rating	29 Tons.		44A	Appr Struc. Mat type	STEEL		
65	Inventory Rating Meth	ALLOWABLE STRESS		44B	Appr Struc. Cnstr. type	STRINGER/MULTIBEAM - GRD		
66	Inventory Rating	15 Tons.		46	# of Approach Span	4		
70	Bridge Posting Code	10.0-19.9% BELOW		107	Deck Mat/Constr.	1 CONCRETE CIP		
PROPOSED IMPROVEMENT INFORMATION				108A	Wear Surf Mat/Constr.	5 EPOXY OVERLAY		
	Sufficiency Rating	2.0	Percent	108B	Membrane Mat/Constr.	0 NONE		
	Deficiency Rating	STRUCTURAL		108C	Deck Protect Mat/Constr.	0 NONE		
	Funding Eligibility	FULL		CONDITION RATING INFORMATION				
75A	Proposed Work	REPLACEMENT SUBSTND LOAD		58	Deck Cond. Rating	4		
75B	Work Done By	Contract		59	Superstructure Cond. Rating	3		
76	New Struc Length	298 Ft. 7 In.		60	Substructure Cond. Rating	5		
94	Struc Improve Cost	\$ 1,913,000		61	Channel /Channel Protection Cond. Rating	N		
95	Roadway Improve Cost	\$ 191,000		62	Culvert Cond. Rating	N		
96	Total Project Cost	\$ 2,870,000		INSPECTION INFORMATION				
97	Year of Cost Estimates	2023		90	Gen. Insp Date	10 / 21		
APPRAISAL RATING INFORMATION				91	Gen. Insp. Frequency	24	Months	
36A	Br. Rail App. Rating	DOES NOT MEET ACCEPT STND		92A	Frac. Critical Inspection	Y	Months 24	
36B	Transition Rail App. Rating	DOES NOT MEET ACCEPT STND		93A	Frac. Critical Insp. Date	10 / 21		
36C	Approach Rail App. Rating	DOES NOT MEET ACCEPT STND		92B	Underwater Inspection	N	Months	
36D	Rail End Treat. App. Rating	DOES NOT MEET ACCEPT STND		93B	Underwater Insp. Date			
67	Struc Eval App. Rating	3		92C	Special Inspection	N	Months	
68	Deck Geometry App. Rating	2		93C	Special Inspection Date			
69	Underclearance App. Rating	2		BORDER BRIDGE INFORMATION				
71	Waterway Adeq. App. Rating	N		98	Neighboring State Code			
72	Approach Road App. Rating	6		98B	Neighboring State % Respon			
113	Scour Assess App. Rating	N		99	Neighboring State Struc. No.			
APPROVED POSTING INFORMATION				FIELD POSTING INFORMATION				
Approved Posting Category		S-15		Field Posting Category		S-15		
		Ton1	Ton2	Ton3		Ton1	Ton2	Ton3
Tonnage Values for Posting Sign		35	20		Tonnage Values for Posting Sign		35	20
General Text for Posting Sign				General Text for Posting Sign				
TRUCK WEIGHT LIMIT 35 TONS EXCEPT SINGLE UNIT				TRUCK WEIGHT LIMIT 35 TONS EXCEPT SINGLE UNIT				
TANDEM REAR AXLE TRUCKS 20 TONS WEIGHT LIMIT				TANDEM REAR AXLE TRUCKS 20 TONS WEIGHT LIMIT				

Design_No = K0789 and Inventory_Appraisal_Submittal_Year = 2023



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

August 10, 2023
5:46:45am

COUNTY : HOWELL BRIDGE : K0789 1 REVIEW STATUS : CONVERTED NBI STATUS : T
RECORD TYPE : ROUTE 'UNDER' STRUCT RUN DATE : 3/6/2023 SUBMITTAL YEAR : 2023

GENERAL STRUCTURE INFORMATION			ROUTE DESIGNATION INFORMATION		
1	State	MISSOURI	5A	Record Type	ROUTE 'UNDER' STRUCT Code : 2
2	District	SE	5B	Route Signing Prefix	CST
3	County	HOWELL	5C	Designated Level of Service	MAINLINE
8	Federal ID No.	5941	5D	Route Number	00000
27	Year Built	1939	5E	Directional Suffix	NOT APPLICABLE
106	Year Reconstructed	0	7	Facility Carried	MO 137 S
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	09-RURAL LOCAL
101	Parallel Struc Desg	NONE EXISTS	28A	Lanes on Structure	02
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	WILLOW SPRINGS CITY	29	AADT	116
	Code	80098	30	AADT Year	2022
9	Location	S 30 T 27 N R 9 W	102	Direction of Traffic	2-WAY TRAFFIC
11	Milepoint	0.33 miles	109	AADT Truck Percent	9%
16	Latitude	36 D 59 M 28 S	114	Future AADT	
17	Longitude	91 D 58 M 13 S	115	Future AADT Year	
UNDERRECORD INFORMATION			STRUCTURE GEOMETRIC INFORMATION		
6	Features Intersected	CST FIRST ST	10	Inventory Rte. Vert. Clear	13 Ft. 11 In.
42B	Type of Service Under	HIGHWAY-RAILROAD	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	32 Ft. 2 In.
55B	Rt. Lat Clearance		48	Maximum Span Length	75 Ft. 6 In.
56	Left Lat Clearance		49	Structure Length	264 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 = K0789 and Inventory_Appraisal_Submittal_Year = 2023



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

August 10, 2023
5:46:45am

COUNTY : HOWELL BRIDGE : K0789 1 REVIEW STATUS : CONVERTED NBI STATUS : T
RECORD TYPE : ROUTE 'UNDER' STRUCT RUN DATE : 3/6/2023 SUBMITTAL YEAR : 2023

LOAD RATING AND POSTING INFORMATION		MATERIAL/CONSTRUCTION INFORMATION	
<div>31</div> Design Load		<div>43A</div> Main Struc. Mat type	STEEL
<div>41</div> Structure Status		<div>43B</div> Main struc Constr. Type	GIRDER & FLOORBEAM SYSTEM
<div>63</div> Oper. Rating Meth.		<div>45</div> # of Main Spans	
<div>64</div> Operating Rating		<div>44A</div> Appr Struc. Mat type	
<div>65</div> Inventory Rating Meth		<div>44B</div> Appr Struc. Cnstr. type	
<div>66</div> Inventory Rating		<div>46</div> # of Approach Span	
<div>70</div> Bridge Posting Code		<div>107</div> Deck Mat/Constr.	
		<div>108A</div> Wear Surf Mat/Constr.	
		<div>108B</div> Membrane Mat/Constr.	
		<div>108C</div> Deck Protect Mat/Constr.	
PROPOSED IMPROVEMENT INFORMATION		CONDITION RATING INFORMATION	
Sufficiency Rating		<div>58</div> Deck Cond. Rating	
Deficiency Rating		<div>59</div> Superstructure Cond. Rating	
Funding Eligibility		<div>60</div> Substructure Cond. Rating	
<div>75A</div> Proposed Work		<div>61</div> Channel /Channel Protection Cond. Rating	
<div>75B</div> Work Done By		<div>62</div> Culvert Cond. Rating	
<div>76</div> New Struc Length			
<div>94</div> Struc Improve Cost		INSPECTION INFORMATION	
<div>95</div> Roadway Improve Cost		<div>90</div> Gen. Insp Date	
<div>96</div> Total Project Cost		<div>91</div> Gen. Insp. Frequency	
<div>97</div> Year of Cost Estimates		<div>92A</div> Frac. Critical Inspection	
		<div>93A</div> Frac. Critical Insp. Date	
		<div>92B</div> Underwater Inspection	
		<div>93B</div> Underwater Insp. Date	
		<div>92C</div> Special Inspection	
		<div>93C</div> Special Inspection Date	
APPRAISAL RATING INFORMATION		BORDER BRIDGE INFORMATION	
<div>36A</div> Br. Rail App. Rating		<div>98</div> Neighboring State Code	
<div>36B</div> Transition Rail App. Rating		<div>98B</div> Neighboring State % Respon	
<div>36C</div> Approach Rail App. Rating		<div>99</div> Neighboring State Struc. No.	
<div>36D</div> Rail End Treat. App. Rating			
<div>67</div> Struc Eval App. Rating			
<div>68</div> Deck Geometry App. Rating			
<div>69</div> Underclearance App. Rating			
<div>71</div> Waterway Adeq. App. Rating			
<div>72</div> Approach Road App. Rating			
<div>113</div> Scour Assess App. Rating			
APPROVED POSTING INFORMATION		FIELD POSTING INFORMATION	
Approved Posting Category		Field Posting Category	
Ton1 Ton2 Ton3		Ton1 Ton2 Ton3	
Tonnage Values for Posting Sign		Tonnage Values for Posting Sign	
General Text for Posting Sign		General Text for Posting Sign	

Design_No = K0789 and Inventory_Appraisal_Submittal_Year = 2023

PROJECT SUMMARY REPORT FOR 9S3818 AS OF Aug 8, 2023

Work District	SOUTHEAST	Status	ONEDOT APPROVED	Version	APPROVED STIP	Project Manager	CHRIS (PETE) BERRY	Payment Project	N
Award Month/Award Year	1 / 2026	Letting Date	Dec 01, 2025	Estimated Submittal Date	Feb 22, 2023	Let by	CENTRAL OFFICE	Letting Exclusion	N

Primary Route	RT U S	County	WRIGHT
Description / Location	Bridge replacement over BNSF Railway.		
Reason / Remarks	Project involves bridge H0290.		
District Comments			

Project Amounts	Total Estimated Cost for the Project									
Typical Bridge	Major Bridge	Pavement	Safety	Mobility	Capital Improvement	Contingency	Other Non-Contractual	Right of Way Acquisition	Preliminary Engineering	Construction Engineering
1,539		0				31		22	291	217
Total Bridge	1,539	Total Contract Estimate			1,539	Total Construction	1,570		Total Engineering	508
						Total Right of Way and Construction		1,592	Total Project	2,100

Yearly Program Amounts	Amount Programmed by SFY									
	Prior to 2024	2024	2025	2026	2027	2028	2029	Future	Program Total	Project Total
Preliminary Engineering	42	28	113	108					249	291
Construction Engineering				217					217	217
Right of Way Acquisition			22						22	22
Construction				1,570					1,570	1,570
Total	42	28	135	1,895					2,058	2,100

How the District is Funding the Project										
Funding Category										
Asset Management - CN	0	0	0	1,570	0	0	0	0	1,570	1,570
Asset Management - RW	0	0	22	0	0	0	0	0	22	22
Total	0	0	22	1,570	0	0	0	0	1,592	1,592

Funding From Other Sources										
Total	0	0	0	0	0	0	0	0	0	0

Funds Transfer										
Total	0	0	0	0	0	0	0	0	0	0

Total Right of Way and Construction	0	0	22	1,570	0	0	0	0	1,592	1,592
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Engineering	42	28	113	325	0	0	0	0	466	508
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Funding From Other Sources - Engineering										
Total	0	0	0	0	0	0	0	0	0	0

Funds Transer - Engineering										
Total	0	0	0	0	0	0	0	0	0	0

Total Engineering	42	28	113	325	0	0	0	0	466	508
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Total Project	42	28	135	1,895	0	0	0	0	2,058	2,100
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Bridge Count	1	Railroads Impacted	0	Improvement	Action	Detailed Work	Federal Funds Category	Initiatives
Bridges				BRIDGE		BRIDGE REPLACEMENT	AC-STBG	
H0290 ,								

Route	Begin Log	End Log	Begin County	TMA	Travelway ID	System	Functional Class	NHS	AADT	Conflict of Interest
RT U S	0	0.200	WRIGHT	N	2,527	SUPPLEMENTARY	MINOR COLLECTOR	N	197	N
RT U N	13.646	13.846	WRIGHT	N	2,528	SUPPLEMENTARY	MINOR COLLECTOR	N	191	N

Lane Miles	0.4	Centerline Miles	0.2
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PROJECT SUMMARY REPORT FOR 9S3818 AS OF Aug 8, 2023

TIP Number	
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Planning Organization	Federal District	Senate District	House District
SO CENTRAL OZARK COUN OF GOVTS	8	16	141

PROJECT SUMMARY REPORT FOR 9S3801 AS OF Aug 8, 2023

Work District	SOUTHEAST	Status	ONEDOT APPROVED	Version	APPROVED STIP	Project Manager	CHRIS (PETE) BERRY	Payment Project	N
Award Month/Award Year	1 / 2026	Letting Date	Dec 01, 2025	Estimated Submittal Date	Feb 22, 2023	Let by	CENTRAL OFFICE	Letting Exclusion	N

Primary Route	MO 137 S	County	HOWELL
Description / Location	Bridge replacement over BNSF Railway.		
Reason / Remarks	Project involves bridge K0789.		
District Comments			

Project Amounts	Total Estimated Cost for the Project									
Typical Bridge	Major Bridge	Pavement	Safety	Mobility	Capital Improvement	Contingency	Other Non-Contractual	Right of Way Acquisition	Preliminary Engineering	Construction Engineering
3,635		0				73		1,231	684	512
Total Bridge	3,635	Total Contract Estimate			3,635	Total Construction	3,708		Total Engineering	1,196
						Total Right of Way and Construction		4,939	Total Project	6,135

Yearly Program Amounts	Amount Programmed by SFY									
	Prior to 2024	2024	2025	2026	2027	2028	2029	Future	Program Total	Project Total
Preliminary Engineering	100	64	264	256					584	684
Construction Engineering				512					512	512
Right of Way Acquisition			1,231						1,231	1,231
Construction				3,708					3,708	3,708
Total	100	64	1,495	4,476					6,035	6,135

How the District is Funding the Project										
Funding Category										
Asset Management - CN	0	0	0	3,708	0	0	0	0	3,708	3,708
Asset Management - RW	0	0	1,231	0	0	0	0	0	1,231	1,231
Total	0	0	1,231	3,708	0	0	0	0	4,939	4,939

Funding From Other Sources										
Total	0	0	0	0	0	0	0	0	0	0

Funds Transfer										
Total	0	0	0	0	0	0	0	0	0	0

Total Right of Way and Construction	0	0	1,231	3,708	0	0	0	0	4,939	4,939
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Engineering	100	64	264	768	0	0	0	0	1,096	1,196
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Funding From Other Sources - Engineering										
Total	0	0	0	0	0	0	0	0	0	0

Funds Transer - Engineering										
Total	0	0	0	0	0	0	0	0	0	0

Total Engineering	100	64	264	768	0	0	0	0	1,096	1,196
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Total Project	100	64	1,495	4,476	0	0	0	0	6,035	6,135
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Bridge Count	1	Railroads Impacted	0	Improvement	Action	Detailed Work	Federal Funds Category	Initiatives
Bridges				BRIDGE		BRIDGE REPLACEMENT	NHPP	
K0789 ,								

Route	Begin Log	End Log	Begin County	TMA	Travelway ID	System	Functional Class	NHS	AADT	Conflict of Interest
MO 137 S	42.299	42.522	HOWELL	N	1,955	SUPPLEMENTARY	MAJOR COLLECTOR	N	1,688	N
MO 137 N	0.549	0.772	HOWELL	N	1,956	SUPPLEMENTARY	MAJOR COLLECTOR	N	1,776	N

Lane Miles	0.446	Centerline Miles	0.223
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PROJECT SUMMARY REPORT FOR 9S3801 AS OF Aug 8, 2023

TIP Number	
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Planning Organization	Federal District	Senate District	House District
SO CENTRAL OZARK COUN OF GOVTS	8	33	154