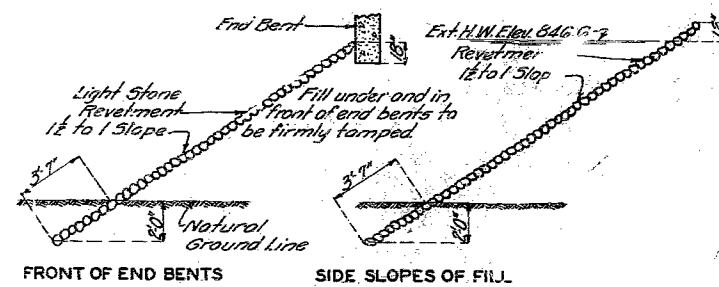
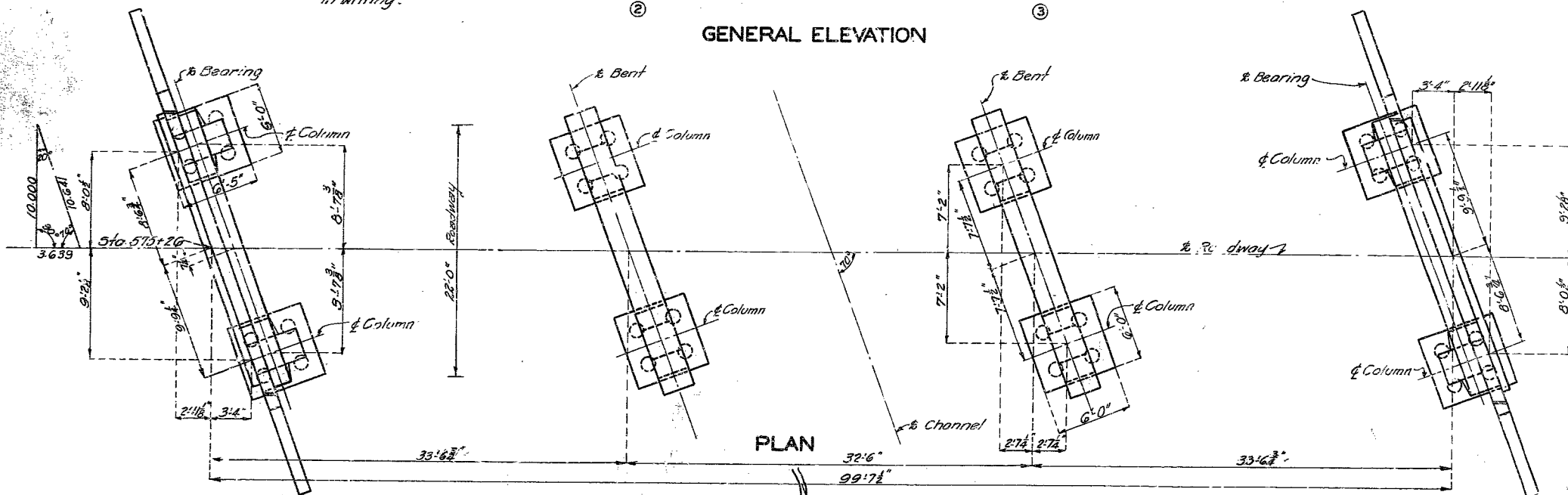
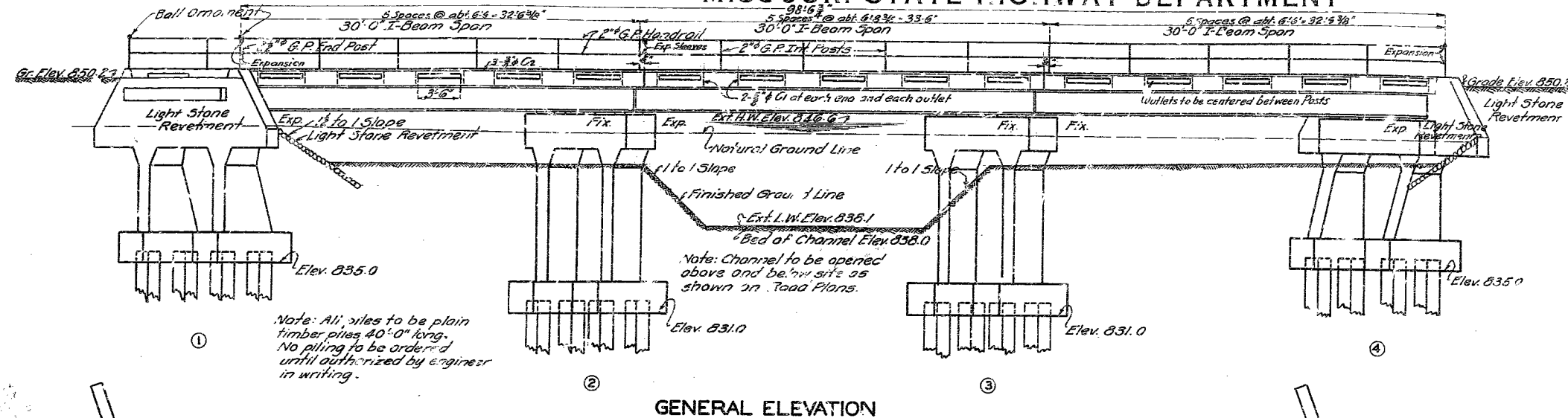
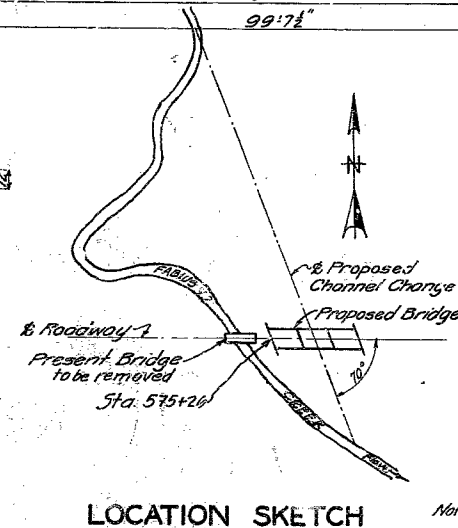


MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISC. YEAR	SHEET NO.	TO AL SHEETS
5	MO.	R4-S62	1931		



Light Stone revetment to be placed on fills at ends of bridge as shown in sketches. Approx. 235 sq. yds. of light stone revetment work included in road contract.



ESTIMATED QUANTITIES			
Item		Substr.	Superstr.
Excavation Class 1	Cu. Yds.	160	
Excavation Class 2	Cu. Yds.	170	
Concrete 1:2:3 1/2 mix "X"	Cu. Yds.		55.5
Concrete 1:2:4 mix "B"	Cu. Yds.	81.6	
Structural Steel	Lbs.		33800
Reinforcing Steel	Lbs.	6620	15600
Plain Timber Piles	Lin. Ft.	1280	
Plain Timber Pile cut-offs	Lin. Ft.	96	
Gas Pipe Handrail	Lin. Ft.		474

Bridge excavation above Elev. 840.0 will be paid for as Class 1 Bridge Excavation. Bridge excavation below Elev. 840.0 will be paid for as Class 2 Bridge Excavation. Note: Excavation required to place superstructure allowing 3' 0" below beams and 4' 0" outside of curb line will be paid for at unit price bid for roadway excavation.

COMPLETE BILL OF REINFORCING STEEL					
No.	Size	Length	Mark	Location	Bending Sketches & Cutting Diagrams
40	3/8"	5'-3"	D1	Footings	
16	3/8"	3'-3"	F1	Haunches	
16	3/8"	3'-0"	F2	"	
16	3/8"	8'-9"	F3	"	
16	3/8"	8'-9"	F4	Beam	
8	3/8"	12'-0"	H1	Wing	
8	3/8"	18'-6"	H2	"	
6	3/8"	25'-6"	H3	Beam	
4	3/8"	25'-6"	H4	"	
16	1"	25'-6"	H5	"	
2	3/8"	19'-0"	H6	Backwall	
4	3/8"	23'-9"	H7	Beam	
28	3/8"	25'-9"	H8	"	
8	3/8"	25'-0"	T1	Wing	
12	3/8"	6'-3"	V1	"	
8	3/8"	5'-6"	V2	"	
48	3/8"	9'-6"	V3	Beam	
24	3/8"	9'-3"	V4	Columns	
32	3/8"	4'-6"	V5	Backwall	
16	3/8"	13'-9"	P1	Columns	
28	3/8"	10'-0"	P2	"	
64	3/8"	9'-6"	P3	Beam	
Superstructure					
12	3/8"	24'-9"	S4	Slab	
120	3/8"	12"	C1	Curb	
18	3/8"	32'-3"	C2	"	
342	3/8"	23'-3"	S1	Slab	
108	3/8"	26'-6"	S2	"	
93	3/8"	32'-3"	S3	"	

Note: Dimensions given are along & of bars and are for computed lengths. Reinforcing bars over 1/2" diameter, which are bent to an angle greater than 90° shall be of structural grade.

GENERAL NOTES:

Concrete in slabs and curbs to be 1:2:3 1/2 mix "X". All other concrete to be 1:2:4 mix "B". Exposed edges to be beveled 1/4" where no other bevel is noted. Shop drawings for structural steel and handrail shall be submitted to the State Highway Department in duplicate and shall be approved before steel is fabricated. Paint Shop: None. Field: Surfaces inaccessible after erection four coats of red lead. No other paint to be applied by contractor. All paint will be furnished by the Missouri State Highway Department. Two name plates type "C" as shown on Std. 5818 to be furnished and placed by contractor. Cost of name plates to be included in price bid for other items. Where bituminous felt is used in expansion or partition joints in concrete, stitch felt in vertical joint securely to one face of concrete with copper wire. Floor slab to be brought to grade and dead load deflection taken care of by increasing slab thickness. See Sheet No. 2. Bridge excavation in accordance with Section I of Standard Specifications issued April 1, 1930, except that quantities paid for will be computed from Ext. Low Water Elev. 838.1 where existing ground line is below this elevation. Piles to be driven to sustain a load of 15 tons per pile. See "Special Provisions" in regard to permissible substitution of beams. Rivets 3/4"; Nuts 1 1/2"; Field connections riveted.

B.M. Elev. 846.76 on S. Hd. of Culvert Sta. 578+25.

BRIDGE OVER FABIVS CREEK

STATE ROAD FROM LANCASTER TO DOWNING
ABOUT 1.25 MILES EAST OF LANCASTER
PROJECT NO. R4-S62 STA. 575+2.5

SCHUYLER COUNTY

SUBMITTED BY: [Signature] DATE: 5/1/31
APPROVED BY: [Signature] DATE: 5/1/31
BRIDGE ENGINEER
CHIEF ENGINEER

STD. 5818

J-690

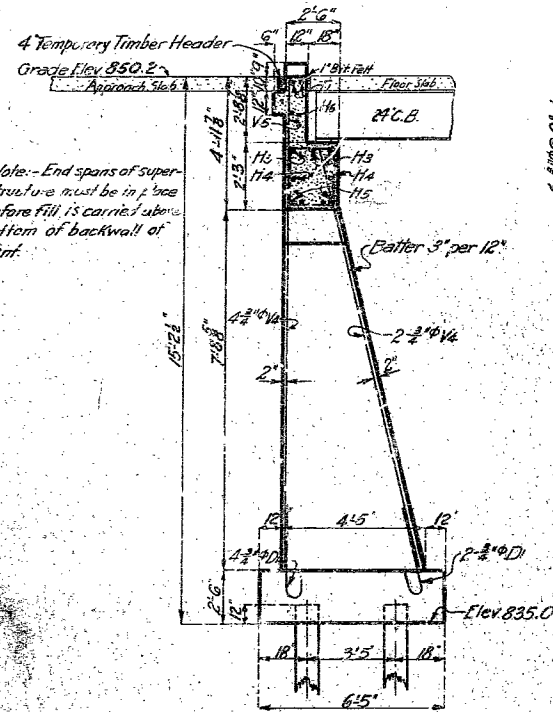
Note: This drawing is not to scale. Follow dimensions.
Sheet No. 1 of 3.

Drawn Feb. 1931 by C.M.G.
Traced March 1931 by B.W.
Checked April 1931 by J.H.M.

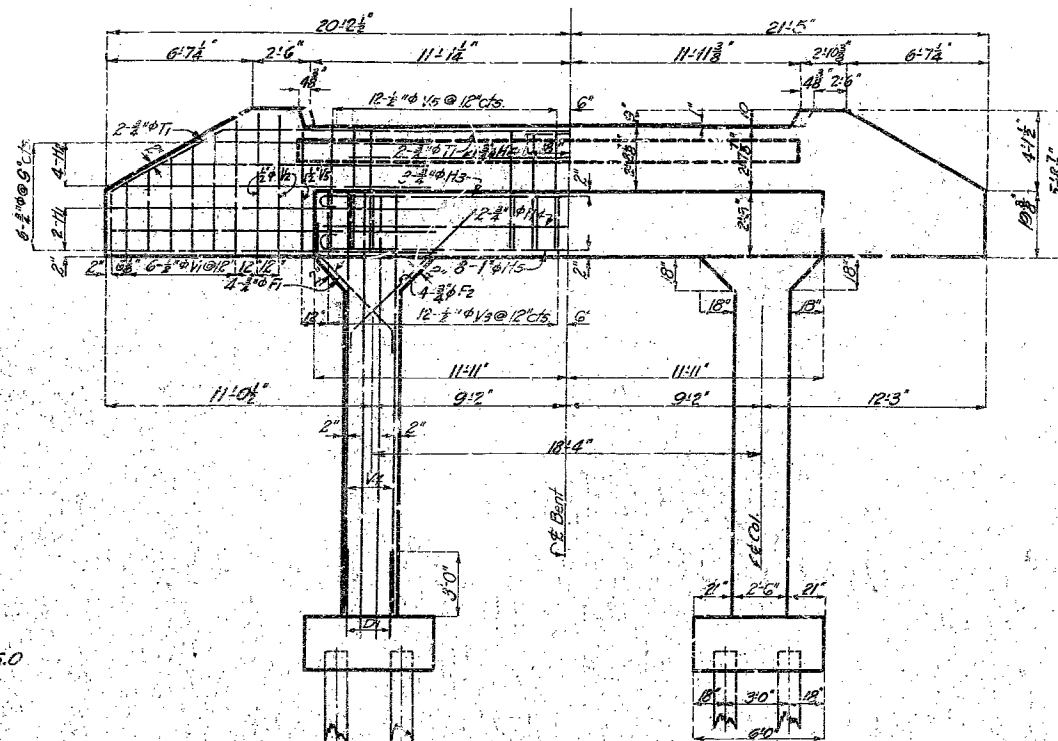
MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2	MO.	R4-562	1951		

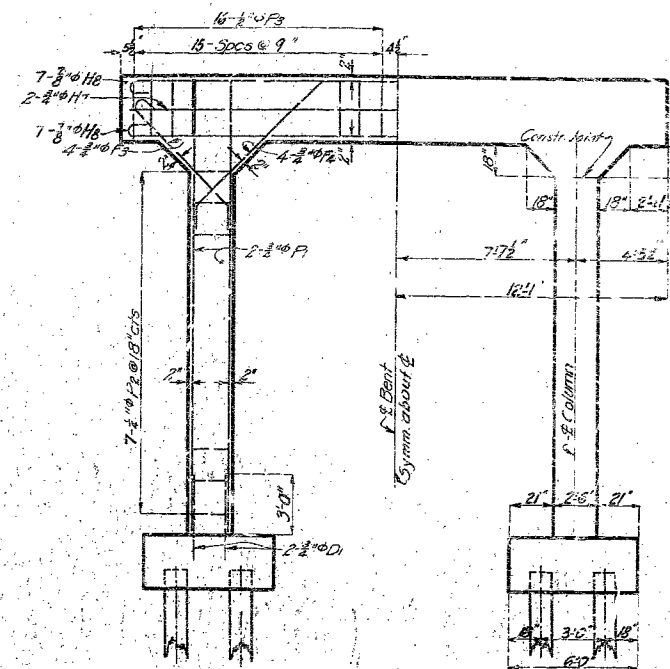
Note: Cost of Timber Header to be included in price bid for other items



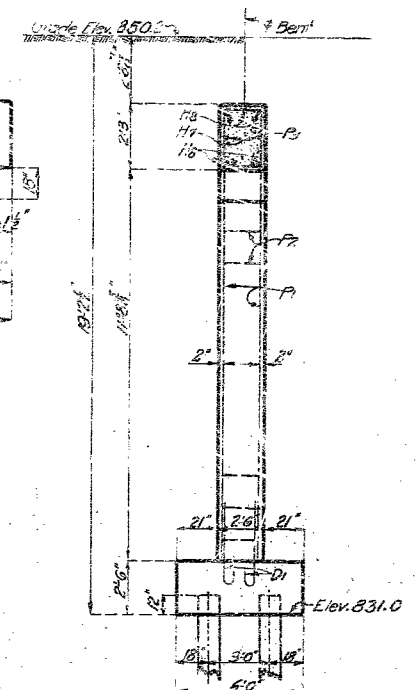
SECTION AT E



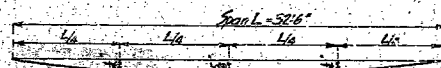
ELEVATION



ELEVATION

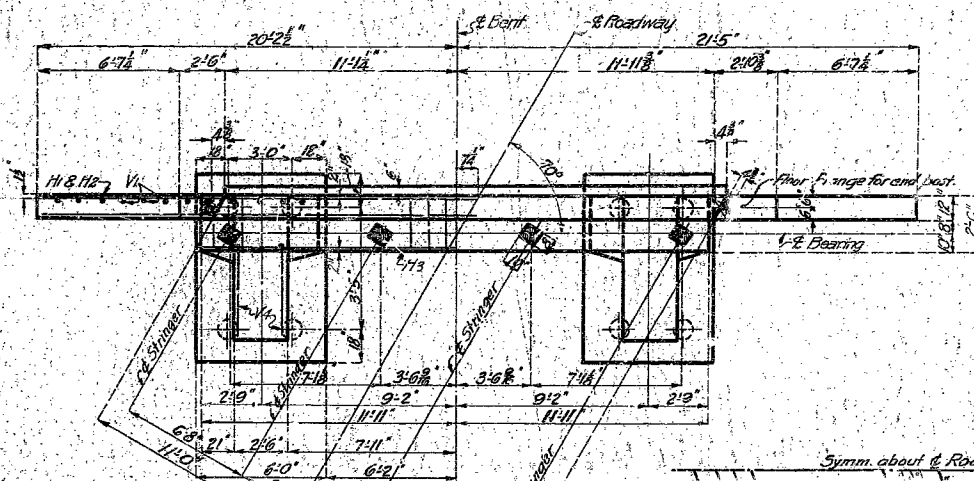


SECTION AT E



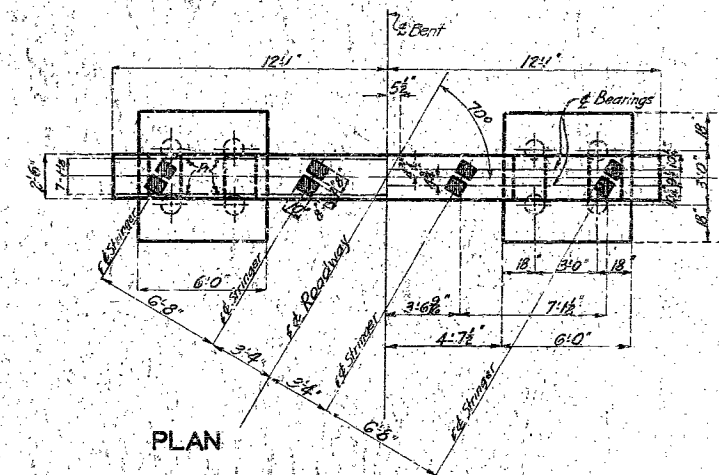
4.2.3
Floor slab to be brought to grade and dead load deflection taken care of by increasing slab thickness. Depth of slab at outside face of curb to be kept uniform and bottom surface of slab varied between curb and outside beam to obtain required thickness at beam. Payment will be allowed for additional concrete required for thickening slab.

DEAD LOAD DEFLECTION



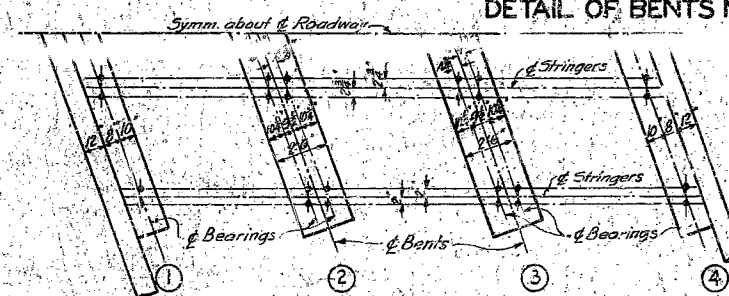
PLAN

DETAILS OF BENTS NO. 1 & 4



PLAN

DETAIL OF BENTS NO. 2 & 3



HALF ANCHOR BOLT PLAN

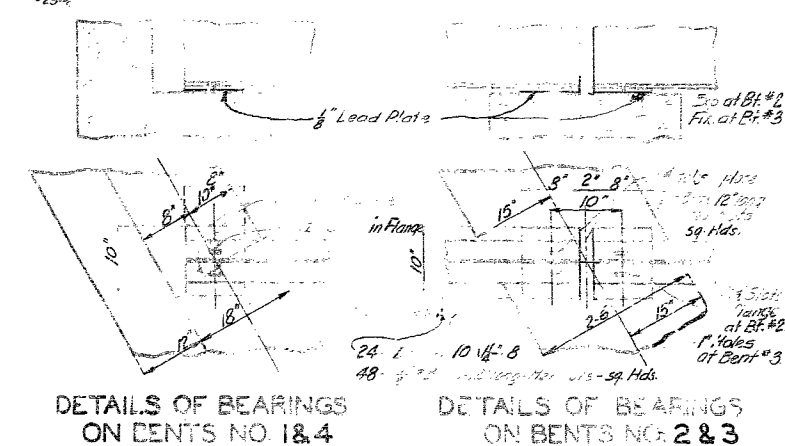
Note: This drawing is not to scale. Follow dimensions.
Sheet 16.2 of 3.

BRIDGE OVER FABIVS CREEK
STATE ROAD FROM LANCASTER TO DOWNING
ABOUT 1.25 MILES EAST OF LANCASTER
PROJECT NO. R4-562 STA. 575 + 26
SCHUYLER COUNTY

SUBMITTED BY: [Signature] DATE: 5/1/51
APPROVED BY: [Signature] DATE: 5/1/51
CHIEF ENGINEER

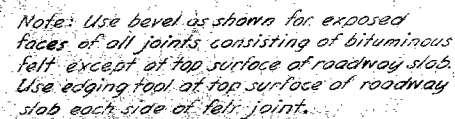
Assembled April 1931 by C.M.B.
Checked April 1931 by J.M.M.
Drawn Dec 1930 by H.W.H.
Checked

STD.S-818
J-690

[illegible]

END SPANS INTERMEDIATE SPAN

PLAN OF SLAB SHOWING BOTTOM REINFORCEMENT



AT CURB

2:6'

12"

6"

3"

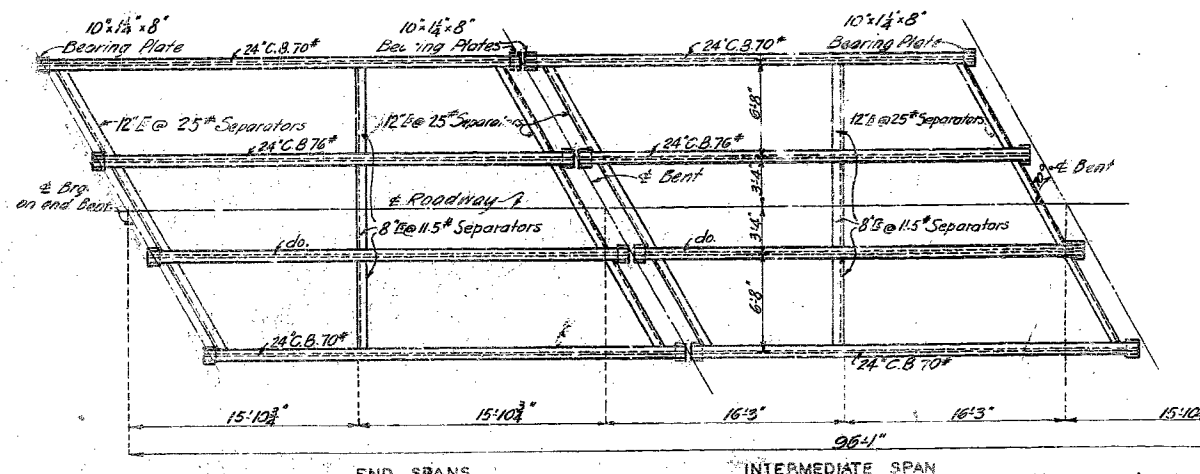
12" E 25°

3/4" Bent Plate

3/4" Bent Plate

Technical drawing of a bent plate connection. The drawing shows a vertical section of a wall or floor slab on the left, with a horizontal bent plate extending to the right. The plate is labeled "1/2" Bent Plate". The connection is secured with four bolts, two on each side of the plate. A dimension line indicates a distance of "12" @ 25#". The plate is bent at a 90-degree angle, with the bend labeled "90°".

24" Beth I B @ 70# for Exterior Stringers
24" Beth I B @ 73.5# for Interior Stringers
24" Standard I B @ 74.9# for Exterior Stringers
24" Standard I B @ 85# for Interior Stringers
Note:- See special provisions for condition under
which substitutions may be made and for
basis of payment.



END SPANS	INTERMEDIATE SPAN
1	1
2	2
3	3
4	4
5	5
6	6
7	7
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100	100

Note:- This drawing is not to scale
Follow dimensions

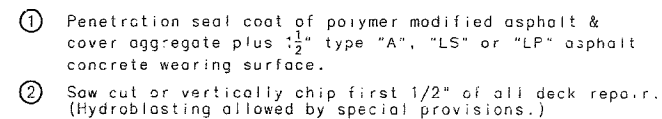
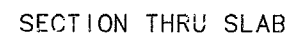
Sheet No. 3 of 3.

STATE RD FROM LANCASTER TO DOWNING
ABOUT 1.25 MILES EAST OF LANCASTER
DEPT. NO. R4-S62 SNA.575+26

M. R. Lacy 5/1/5
 H. L. Lacy 5/1/5

J-690

STATE	PROJ. NO. ACSTP-136-21191	SHEET NO.
MO.	JOB NO. J2P0636	96
SEC. 5 SUR. 5 TWP. 39N RGE. 31W		

[illegible]

* See Special Provisions

Contractor shall verify all dimensions in field before ordering materials.

QUANTITIES FOR ALTERNATE ASPHALTIC CONCRETE WEARING SURFACE			
TYPE:	ASPHALTIC CEMENT (TONS)	MINERAL AGGREGATE (TONS)	MIX USED (/)
Limestone Porphyry (LP) Asphaltic Concrete Mix	1.1	20	0
Limestone Steel Slag (LS) Asphaltic Concrete Mix	1.1	22	0
Type A Asphaltic Concrete Mix	1.1	20	0

Type PG 58-22 asphalt cement is required in the asphaltic concrete mixes for bridge deck overlays when the adjacent roadways are not to be overlaid.

J06901

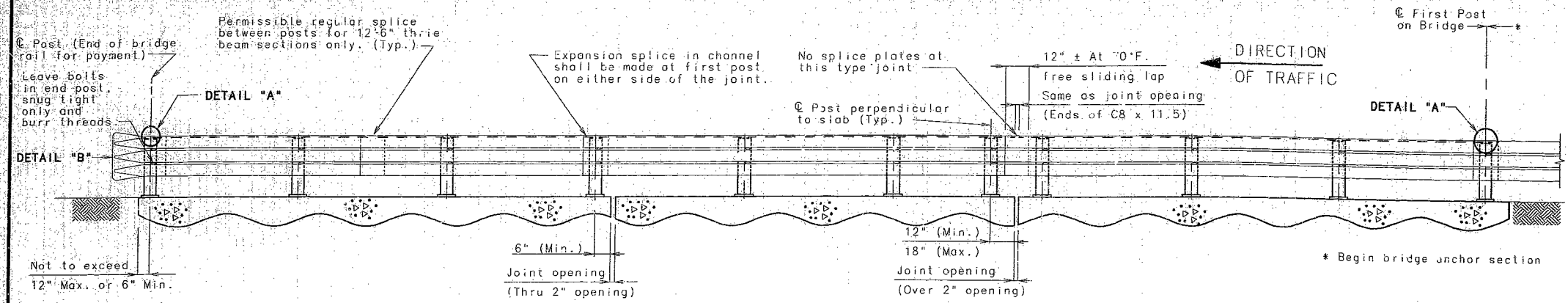
DATE 11-9-67

DETAILED AUG. 1995
CHECKED OCT. 1997

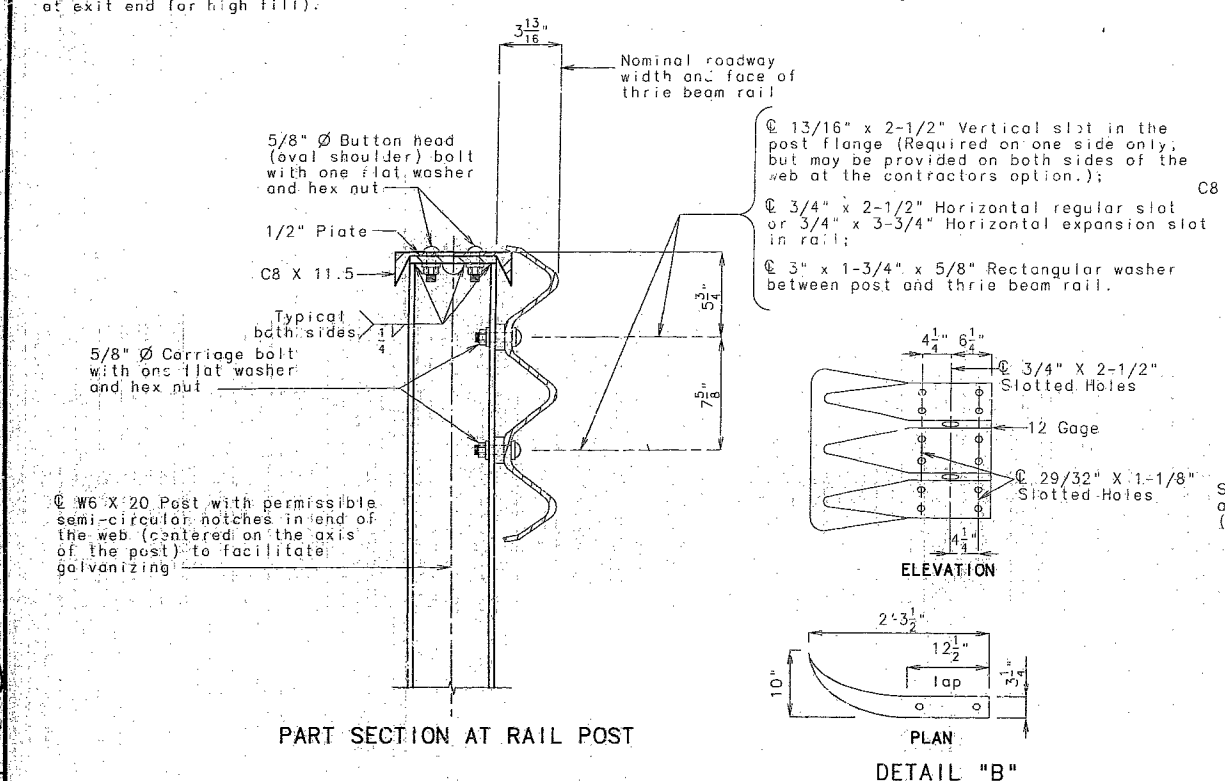
NOTE: THIS DRAWING IS NOT TO SCALE. FOLLOW DIMENSIONS.

SHEET NO. 1 OF 4

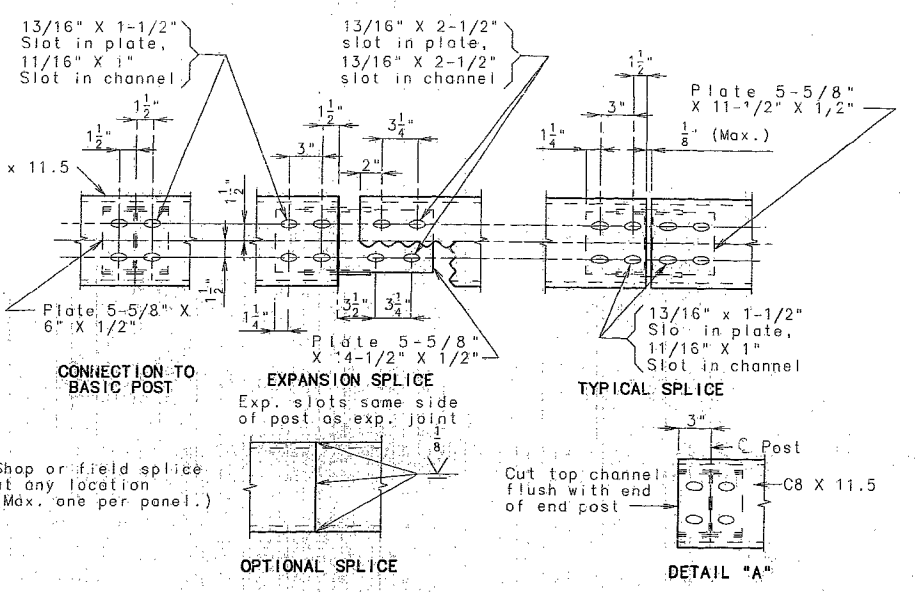
STATE	PROJ. NO.	SHEET
MO.	ACSTP-136-2(19)	NO.
JOB NO. J2P0636		97



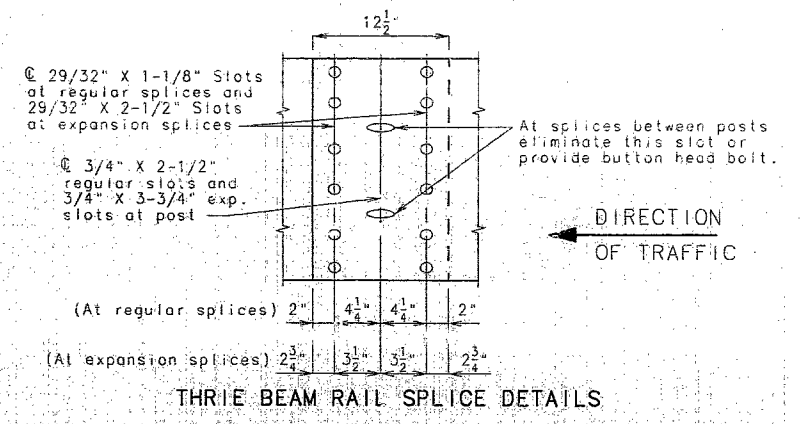
PART SECTION THRU SLAB SHOWING THRIE BEAM RAIL



PART SECTION AT RAIL POST



CHANNEL MEMBER DETAILS



THRIE BEAM RAIL SPLICE DETAILS

NOTES:

Panel lengths of channel members shall be attached continuously to a minimum of four posts and a maximum of six posts (except at end bents).

All bolts, nuts, washers and plates are considered as parts of the thrie beam rail for payment.

All steel connecting bolts and fasteners for posts and railing and all anchor bolts, nuts, washers and plates shall be galvanized after fabrication. For protective coating and material requirement of steel railing, see Section 1040 of the Missouri Standard Specifications.

Rail posts shall be set perpendicular to roadway profile grade and vertically in cross section, and aligned according to Section 713 of the Missouri Standard Specifications, except that the rail posts shall be aligned by the use of shims so that in the final adjustment no part shall deviate more than one inch from true horizontal alignment. The shims shall be 3" X 1-3/4" and placed between the post and the thrie beam rail. The thickness of the shims shall be determined by the contractor and verified by the engineer before ordering material for this work.

At the expansion slots in the thrie beam rails and channels, tighten bolts, back off one-half turn and burr threads.

At the thrie beam connection to posts on wings, tighten bolts, back off one-half turn and burr threads.

Minimum length of thrie beam sections is equal to one post space.

Use 5/8" Ø button-head, oval shoulder bolts with hex nuts at all slots. (Thickness of hex nuts = 3/8" min.).

Thrie beam guard rail on the bridge shall be made of steel and shall be 12 Gage.

Posts, top plates, channels and channel splice plates shall be fabricated from ASTM A709 Grade 36 steel and galvanized.

Washers shall be used at all post bolts (between the bolt head and beam). They shall be rectangular in shape (3" X 1-3/4" X 3/16" min.) and flat with a 1/16" X 1" slot, or when necessary of such design as to fit the contour of the beam. (Use a 3" X 1-3/4" X 5/8" rectangular washer between the post and the thrie beam rail.)

Special drilling of the thrie beam may be required at the splices. (All drilling details are to be shown on the shop drawings.)

Fabrication of structural steel shall be in accordance with Section 712 of the Missouri Standard Specifications.

Expansion splices in the thrie beam rail shall be made at either the first or second post on either side of the joint and on structure at bridge ends. When the splice is made at the second post, an expansion slot shall be provided in the thrie beam rail for connection to the first post to allow for movement.

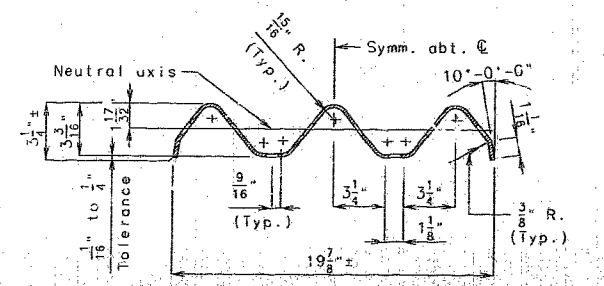
In addition to the expansion provisions at these expansion joints, expansion splices in the thrie beam rail and the channel shall be provided at other locations so that the maximum length without expansion provisions does not exceed 200 ft.

Contractor shall verify all dimensions in field before ordering materials.

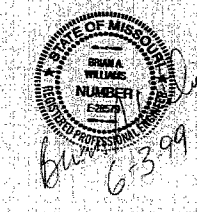
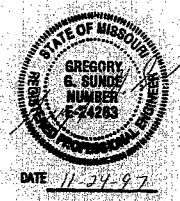
Shim plates 6" X 6" X 1/16" may be used between the top of post and the channel member as required for vertical alignment.

See Missouri Standard Plans Drawing 606.00 for details not shown.

See slab sheet for rail post spacing.



SECTION THRU THRIE BEAM RAIL



FINAL PLANS

I CERTIFY THAT THIS DRAWING ACCURATELY REFLECTS THE CONFIGURATION AND LOCATION OF THE ROADWAY AND APPURTENANCES AS CONSTRUCTED ON THIS PROJECT.

DATE 6-3-99

SIGNATURE

DATE

THB 1, 3, 3.30, REH, A

Thrie Beam Railing Structures

Revised: Sept. 1996

Sept. 1995

DETAILED: SEPT. 1996

CHECKED: OCT. 1997

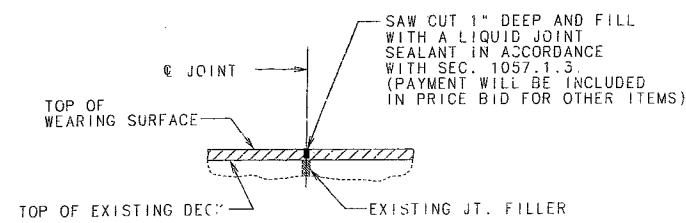
NOTE: THIS DRAWING IS NOT TO SCALE. FOLLOW DIMENSIONS.

SHEET NO. 2 OF 4

SCHUYLER

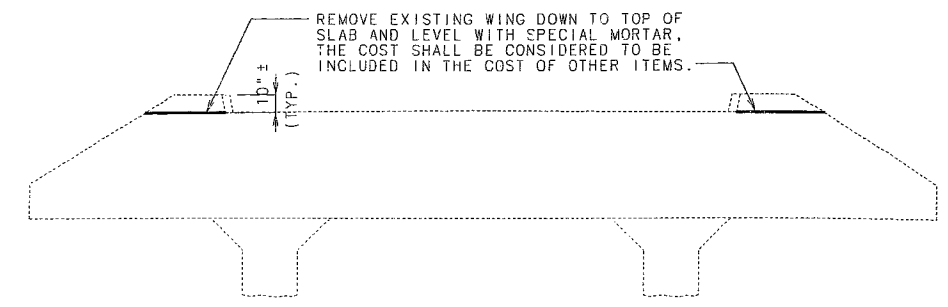
COUNTY

J06901

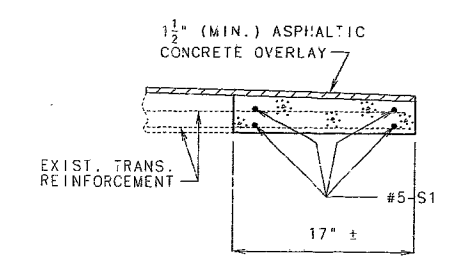


**DETAIL OF EXIST. TRANSVERSE JOINT
AT BTS. NO. 2 & 3.**

NOTE: CONSTRUCT TRANSVERSE JOINT IN NEW SLAB OVERHANG SIMILAR TO EXISTING TRANSVERSE JOINT. THE COST CONSIDERED TO BE INCLUDED IN THE COST OF BID ITEM (SLAB OVERHANG REPLACEMENT).



PART ELEVATION NEAR END BENTS



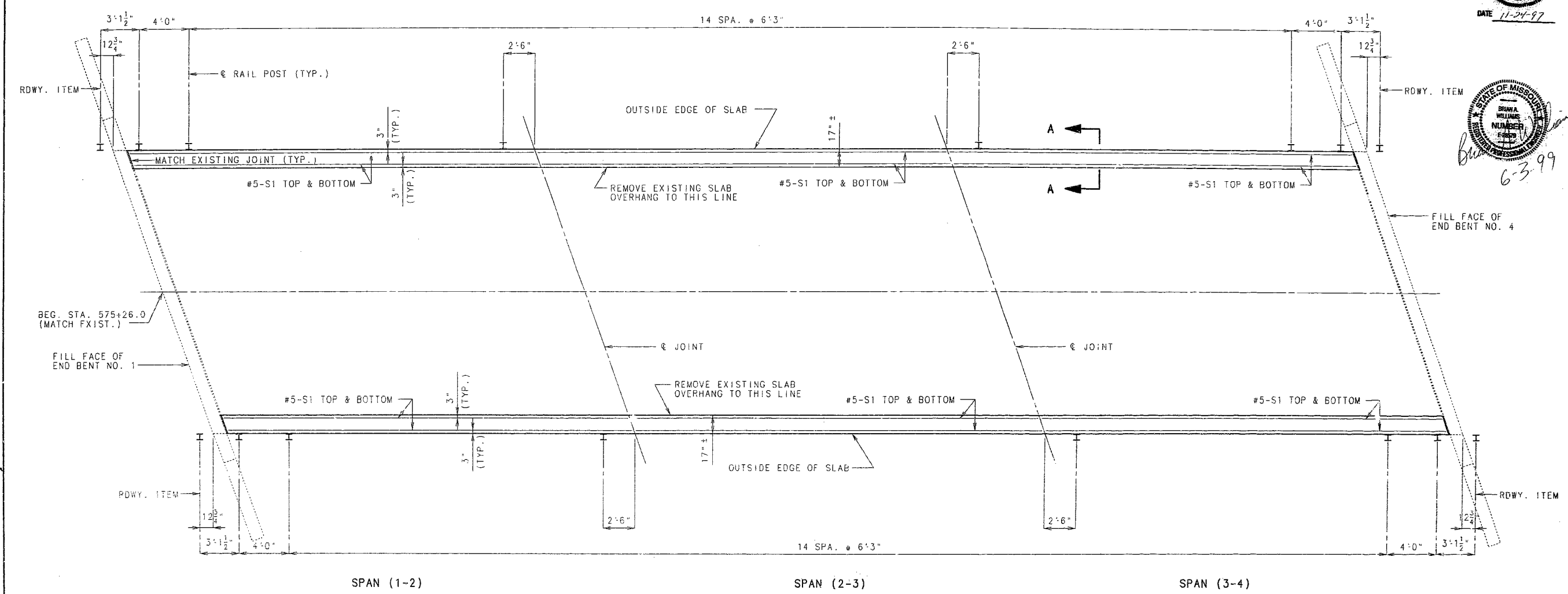
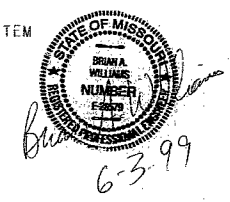
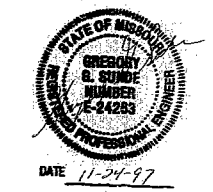
SECTION A-A

BILL OF REINFORCING STEEL				
NO.	SIZE & MARK	SHAPE	WEIGHT/LBS.	
24	#5-S1	20	807	32'3"
				S1
				SHAPE 20

All dimensions in diagram are out to out.
Actual lengths are measured along centerline of bar to the nearest inch.
Minimum clearance to reinforcing shall be 1 1/2".
All reinforcement shall be Grade 60.
All S1 bars shall be epoxy coated.

STATE	PROJ. NO.	SHEET NO.
MO.	ACSTP-136-2(119)	98
JOB NO. J2P0636		

FINAL PLANS
I CERTIFY THAT THIS DRAWING ACCURATELY REFLECTS THE CONFIGURATION AND LOCATION OF THE ROADWAY AND APPURTENANCES AS CONSTRUCTED ON THIS PROJECT.
SIGNATURE: *Brian A. Williams*
DATE: 6-3-99



PLAN OF SLAB SHOWING RAIL POST SPACING AND SLAB OVERHANG

DETAILED SEPT. 1996
CHECKED OCT. 1997

NOTE: THIS DRAWING IS NOT TO SCALE. FOLLOW DIMENSIONS

SHEET NO. 3 OF 4

SCHUYLER

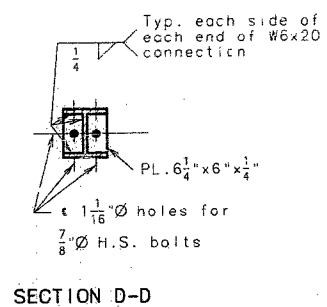
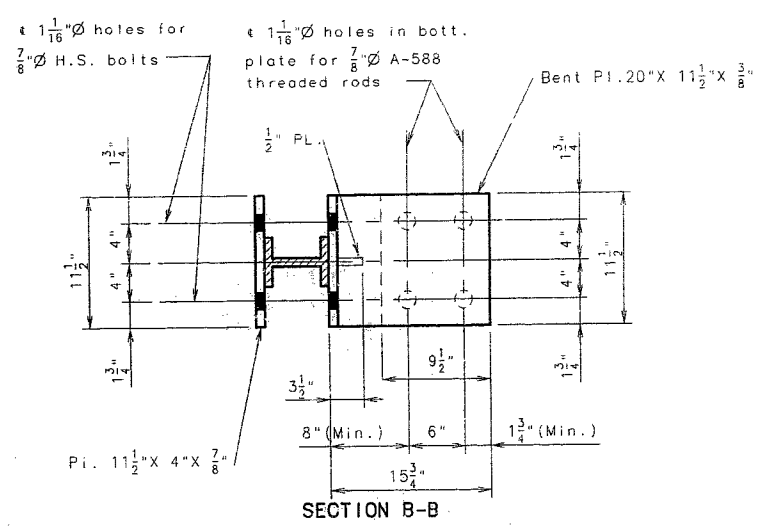
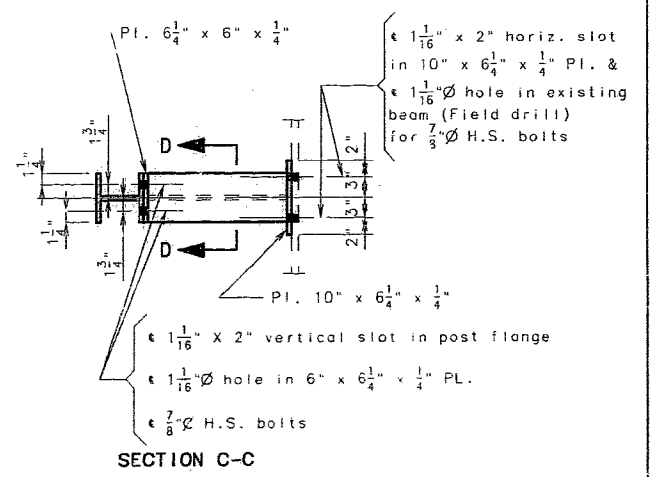
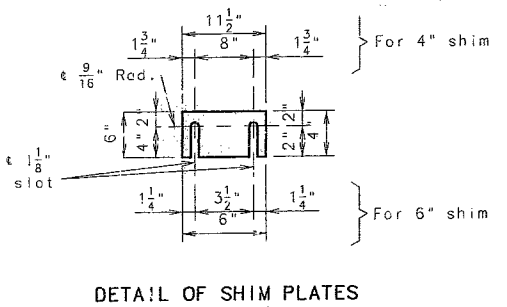
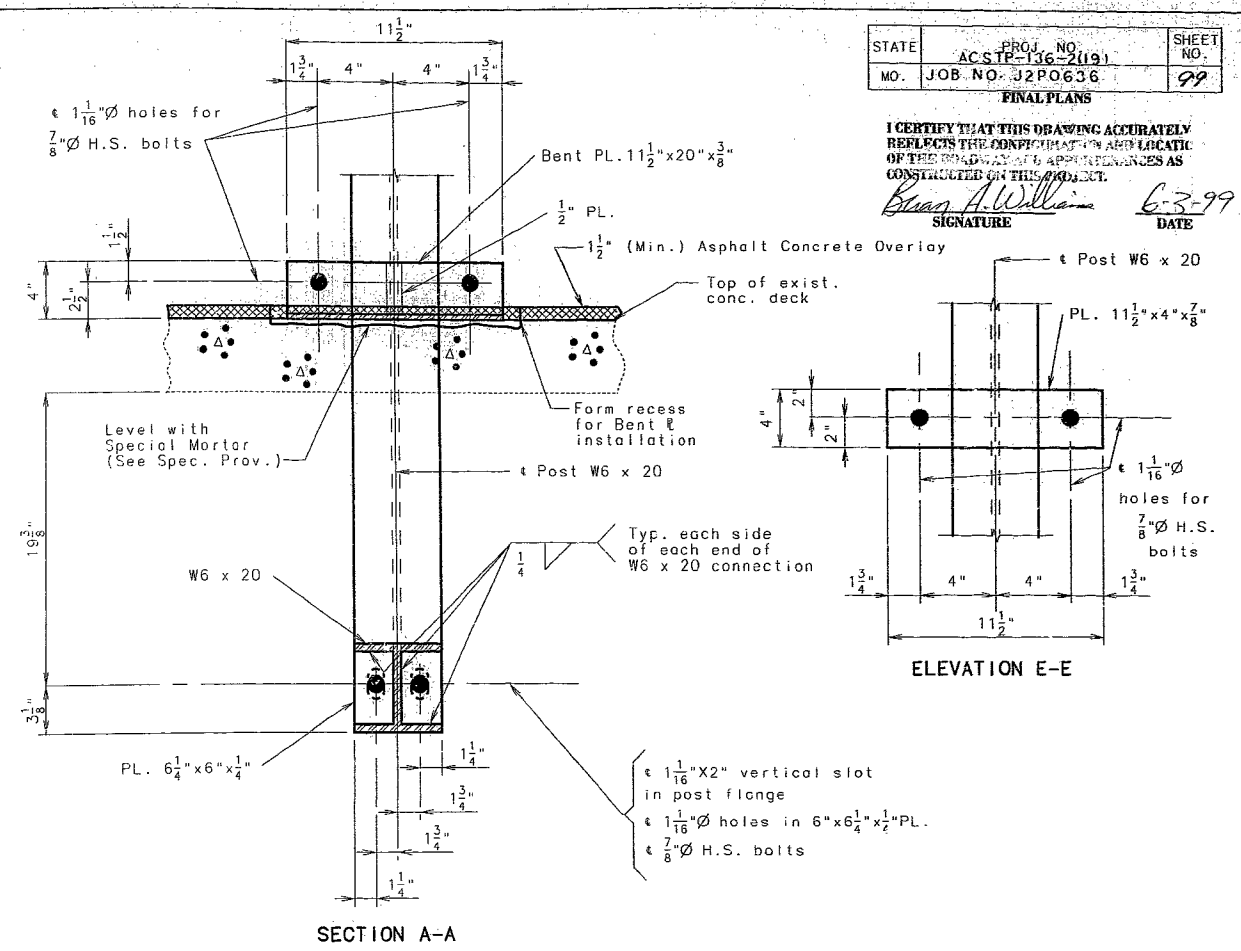
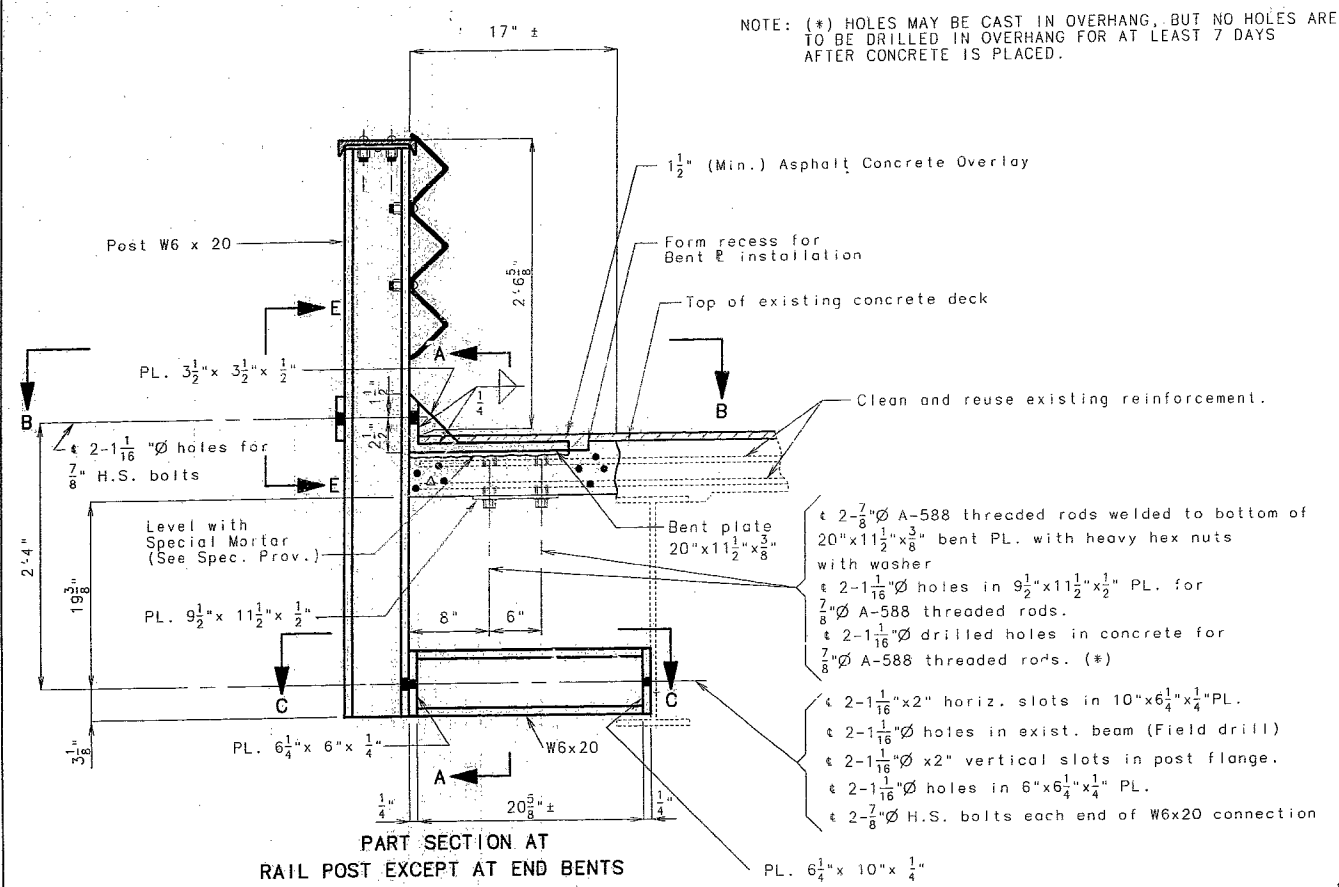
COUNTY

JO6901

STATE	PROJ. NO.	SHEET NO.
MO.	AC STP-136-2(19)	99
	JOB NO. J2P0636	
	FINAL PLANS	

I CERTIFY THAT THIS DRAWING ACCURATELY REFLECTS THE CONSTRUCTION AND LOCATION OF THE ROADWAY AND APPURTENANCES AS CONSTRUCTED ON THE PROJECT.

Brian A. Williams 6-3-99
SIGNATURE DATE



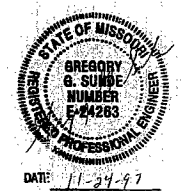
Note: Shim plates 6" x 6 1/4" x 1/16" may be used between post W6 x 20 and 6" x 6 1/4" x 1/4" PL. and shim plates 11-1/2" x 4" x 1/16" may be used between Post W6 x 20 and 20" x 11-1/2" x 3/8" bent plate as required for horizontal alignment. Shim plates may vary in thickness from 1/16" to the thickness required for horizontal alignment. Shim plates shall be galvanized after fabrication.

Note: Optional welding of the post to the base plate is a 3/8" fillet weld all around (including the edges of the post flanges) in lieu of the weld shown.

NOTE: THIS DRAWING IS NOT TO SCALE. FOLLOW DIMENSIONS.

470

THRIE BM, GS 3.30, STG. 1, AUGUST 1993



DETAILED SEPT. 1996
CHECKED OCT. 1997

SHEET NO. 4 OF 4.

SCHUYLER COUNTY J06901





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

November 13, 2019
11:46:04am

COUNTY : SCHUYLER BRIDGE : J0690 1 REVIEW STATUS : APPROVED NBI STATUS : P
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT RUN DATE : 1/30/2017 SUBMITTAL YEAR : 2016

GENERAL STRUCTURE INFORMATION			ROUTE DESIGNATION INFORMATION		
1	State	MISSOURI	5A	Record Type	ROUTE CARRIED 'ON' STRUCT
2	District	NE	5B	Route Signing Prefix	US
3	County	SCHUYLER	5C	Designated Level of Service	MAINLINE
8	Federal ID No.	5487	5D	Route Number	00136
27	Year Built	1931	5E	Directional Suffix	NOT APPLICABLE
106	Year Reconstructed	0	7	Facility Carried	US 136 E
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	NOT ELIGIBLE FOR NR OF HP	26	Functional Classification	06-RURAL MINOR ARTERIAL
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	YES
STRUCTURE LOCATION INFORMATION			STRUCTURE TRAFFIC INFORMATION		
4	Place	LIBERTY	29	AADT	1717
	Code	42338	30	AADT Year	2016
9	Location	S 17 T 66 N R 14 W	102	Direction of Traffic	2-WAY TRAFFIC
11	Milepoint	194.45 miles	109	AADT Truck Percent	24%
16	Latitude	40 D 31 M 24 S	114	Future AADT	2232
17	Longitude	92 D 30 M 13 S	115	Future AADT Year	2037
UNDERRECORD INFORMATION			STRUCTURE GEOMETRIC INFORMATION		
6	Features Intersected	N FK MID FABIUS RV	10	Inventory Rte. Vert. Clear	99 Ft. 99 In.
42B	Type of Service Under	WATERWAY	19	By pass Detour Length	14.88 miles
28B	Lanes Under Structure	00	32	Approach Roadway Width	21 Ft. 11 In.
54A	Vert. Clearance Ref.	N/A	34	Skew	20.00 Degrees
54B	Vert. Clearance	0 Ft. 0 In.	35	Struct. Flared	NO
55A	Rt. Lat Clear Ref.	N/A	47	Total Horiz. Clear	21 Ft. 11 In.
55B	Rt. Lat Clearance	0 Ft. 0 In.	48	Maximum Span Length	33 Ft. 5 In.
56	Left Lat Clearance	0 Ft. 0 In.	49	Structure Length	100 Ft. 0 In.
38	Navigation Control	PERMIT NOT REQ	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	22 Ft. 11 In.
111	Nav. Pier Protection		52	Deck Width (Out-Out)	23 Ft. 7 In.
116	Nav. Cl. Vert. Clear		53	Vert. Clearance Over Deck	99 Ft. 99 In.

Design_No = J0690



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

November 13, 2019
11:46:04am

COUNTY : SCHUYLER BRIDGE : J0690 1 REVIEW STATUS : APPROVED NBI STATUS : P
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT RUN DATE : 1/30/2017 SUBMITTAL YEAR : 2016

LOAD RATING AND POSTING INFORMATION			MATERIAL/CONSTRUCTION INFORMATION		
31	Design Load	OTHER OR UNKNOWN	43A	Main Struc. Mat type	STEEL
41	Structure Status	P - POSTED FOR LOAD	43B	Main struc Constr. Type	STRINGER/MULTIBEAM - GRD
63	Oper. Rating Meth.	LOAD FACTOR	45	# of Main Spans	3
64	Operating Rating	37 Tons.	44A	Appr Struc. Mat type	
65	Inventory Rating Meth	LOAD FACTOR	44B	Appr Struc. Cnstr. type	
66	Inventory Rating	22 Tons.	46	# of Approach Span	0
70	Bridge Posting Code	0.1-9.9% BELOW	107	Deck Mat/Constr.	1 CONCRETE CIP
PROPOSED IMPROVEMENT INFORMATION			108A	Wear Surf Mat/Constr.	6 BITUMINOUS
Sufficiency Rating 45.8 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	3
75B	Work Done By	Contract	59	Superstructure Cond. Rating	5
76	New Struc Length	127 Ft. 11 In.	60	Substructure Cond. Rating	6
94	Struc Improve Cost	\$ 491,000	61	Channel /Channel Protection Cond. Rating	6
95	Roadway Improve Cost	\$ 49,000	62	Culvert Cond. Rating	N
96	Total Project Cost	\$ 737,000	INSPECTION INFORMATION		
97	Year of Cost Estimates	2017	90	Gen. Insp Date	11 / 15
APPRAISAL RATING INFORMATION			91	Gen. Insp. Frequency	24 Months
36A	Br. Rail App. Rating	MEETS ACCEPTBLE STND	92A	Frac. Critical Inspection	N Months
36B	Transition Rail App. Rating	MEETS ACCEPTBLE STND	93A	Frac. Critical Insp. Date	
36C	Approach Rail App. Rating	MEETS ACCEPTBLE STND	92B	Underwater Inspection	N Months
36D	Rail End Treat. App. Rating	MEETS ACCEPTBLE STND	93B	Underwater Insp. Date	
67	Struc Eval App. Rating	5	92C	Special Inspection	N Months
68	Deck Geometry App. Rating	3	93C	Special Inspection Date	
69	Underclearance App. Rating	N	BORDER BRIDGE INFORMATION		
71	Waterway Adeq. App. Rating	8	98	Neighboring State Code	
72	Approach Road App. Rating	8	98B	Neighboring State % Respon	
113	Scour Assess App. Rating	8	99	Neighboring State Struc. No.	
APPROVED POSTING INFORMATION			FIELD POSTING INFORMATION		
Approved Posting Category S-9			Field Posting Category S-9		
Ton1 Ton2 Ton3			Ton1 Ton2 Ton3		
Tonnage Values for Posting Sign 36			Tonnage Values for Posting Sign 36		
General Text for Posting Sign			General Text for Posting Sign		
6 AXLE TRUCKS OVER 36 TONS 15 MPH ON BRIDGE.			6 AXLE TRUCKS OVER 36 TONS 15 MPH ON BRIDGE.		

Design_No = J0690



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

November 13, 2019
11:46:04am

COUNTY : SCHUYLER BRIDGE : J0690 1 REVIEW STATUS : APPROVED NBI STATUS : P
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT RUN DATE : 1/10/2018 SUBMITTAL YEAR : 2017

GENERAL STRUCTURE INFORMATION			ROUTE DESIGNATION INFORMATION		
1	State	MISSOURI	5A	Record Type	ROUTE CARRIED 'ON' STRUCT
2	District	NE	5B	Route Signing Prefix	US
3	County	SCHUYLER	5C	Designated Level of Service	MAINLINE
8	Federal ID No.	5487	5D	Route Number	00136
27	Year Built	1931	5E	Directional Suffix	NOT APPLICABLE
106	Year Reconstructed	0	7	Facility Carried	US 136 E
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	NOT ELIGIBLE FOR NR OF HP	26	Functional Classification	06-RURAL MINOR ARTERIAL
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	YES
STRUCTURE LOCATION INFORMATION			STRUCTURE TRAFFIC INFORMATION		
4	Place	LIBERTY	29	AADT	1717
	Code	42338	30	AADT Year	2016
9	Location	S 17 T 66 N R 14 W	102	Direction of Traffic	2-WAY TRAFFIC
11	Milepoint	194.45 miles	109	AADT Truck Percent	23%
16	Latitude	40 D 31 M 24 S	114	Future AADT	2232
17	Longitude	92 D 30 M 13 S	115	Future AADT Year	2036
UNDERRECORD INFORMATION			STRUCTURE GEOMETRIC INFORMATION		
6	Features Intersected	N FK MID FABIUS RV	10	Inventory Rte. Vert. Clear	99 Ft. 99 In.
42B	Type of Service Under	WATERWAY	19	By pass Detour Length	14.88 miles
28B	Lanes Under Structure	00	32	Approach Roadway Width	21 Ft. 11 In.
54A	Vert. Clearance Ref.	N/A	34	Skew	20.00 Degrees
54B	Vert. Clearance	0 Ft. 0 In.	35	Struct. Flared	NO
55A	Rt. Lat Clear Ref.	N/A	47	Total Horiz. Clear	21 Ft. 11 In.
55B	Rt. Lat Clearance	0 Ft. 0 In.	48	Maximum Span Length	33 Ft. 5 In.
56	Left Lat Clearance	0 Ft. 0 In.	49	Structure Length	100 Ft. 0 In.
38	Navigation Control	PERMIT NOT REQ	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	22 Ft. 11 In.
111	Nav. Pier Protection		52	Deck Width (Out-Out)	23 Ft. 7 In.
116	Nav. Cl. Vert. Clear		53	Vert. Clearance Over Deck	99 Ft. 99 In.

Design_No = J0690



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

November 13, 2019
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COUNTY : SCHUYLER BRIDGE : J0690 1 REVIEW STATUS : APPROVED NBI STATUS : P
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT RUN DATE : 1/10/2018 SUBMITTAL YEAR : 2017

LOAD RATING AND POSTING INFORMATION			MATERIAL/CONSTRUCTION INFORMATION		
31	Design Load	OTHER OR UNKNOWN	43A	Main Struc. Mat type	STEEL
41	Structure Status	P - POSTED FOR LOAD	43B	Main struc Constr. Type	STRINGER/MULTIBEAM - GRD
63	Oper. Rating Meth.	LOAD FACTOR	45	# of Main Spans	3
64	Operating Rating	37 Tons.	44A	Appr Struc. Mat type	
65	Inventory Rating Meth	LOAD FACTOR	44B	Appr Struc. Cnstr. type	
66	Inventory Rating	22 Tons.	46	# of Approach Span	0
70	Bridge Posting Code	0.1-9.9% BELOW	107	Deck Mat/Constr.	1 CONCRETE CIP
PROPOSED IMPROVEMENT INFORMATION			108A	Wear Surf Mat/Constr.	6 BITUMINOUS
	Sufficiency Rating	45.8 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	3
75B	Work Done By	Contract	59	Superstructure Cond. Rating	5
76	New Struc Length	127 Ft. 11 In.	60	Substructure Cond. Rating	6
94	Struc Improve Cost	\$ 491,000	61	Channel /Channel Protection Cond. Rating	6
95	Roadway Improve Cost	\$ 49,000	62	Culvert Cond. Rating	N
96	Total Project Cost	\$ 737,000	INSPECTION INFORMATION		
97	Year of Cost Estimates	2018	90	Gen. Insp Date	11 / 17
APPRAISAL RATING INFORMATION			91	Gen. Insp. Frequency	24 Months
36A	Br. Rail App. Rating	MEETS ACCEPTBLE STND	92A	Frac. Critical Inspection	N Months
36B	Transition Rail App. Rating	MEETS ACCEPTBLE STND	93A	Frac. Critical Insp. Date	
36C	Approach Rail App. Rating	MEETS ACCEPTBLE STND	92B	Underwater Inspection	N Months
36D	Rail End Treat. App. Rating	MEETS ACCEPTBLE STND	93B	Underwater Insp. Date	
67	Struc Eval App. Rating	5	92C	Special Inspection	N Months
68	Deck Geometry App. Rating	3	93C	Special Inspection Date	
69	Underclearance App. Rating	N	BORDER BRIDGE INFORMATION		
71	Waterway Adeq. App. Rating	8	98	Neighboring State Code	
72	Approach Road App. Rating	8	98B	Neighboring State % Respon	
113	Scour Assess App. Rating	8	99	Neighboring State Struc. No.	
APPROVED POSTING INFORMATION			FIELD POSTING INFORMATION		
Approved Posting Category S-9			Field Posting Category S-9		
Ton1 Ton2 Ton3			Ton1 Ton2 Ton3		
Tonnage Values for Posting Sign 36			Tonnage Values for Posting Sign 36		
General Text for Posting Sign			General Text for Posting Sign		
6 AXLE TRUCKS OVER 36 TONS 15 MPH ON BRIDGE.			6 AXLE TRUCKS OVER 36 TONS 15 MPH ON BRIDGE.		

Design_No = J0690



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

November 13, 2019
11:46:04am

COUNTY : SCHUYLER BRIDGE : J0690 1 REVIEW STATUS : APPROVED NBI STATUS : P
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT RUN DATE : 1/10/2019 SUBMITTAL YEAR : 2018

GENERAL STRUCTURE INFORMATION			ROUTE DESIGNATION INFORMATION		
1	State	MISSOURI	5A	Record Type	ROUTE CARRIED 'ON' STRUCT
2	District	NE	5B	Route Signing Prefix	US
3	County	SCHUYLER	5C	Designated Level of Service	MAINLINE
8	Federal ID No.	5487	5D	Route Number	00136
27	Year Built	1931	5E	Directional Suffix	NOT APPLICABLE
106	Year Reconstructed	0	7	Facility Carried	US 136 E
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	NOT ELIGIBLE FOR NR OF HP	26	Functional Classification	06-RURAL MINOR ARTERIAL
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	YES
STRUCTURE LOCATION INFORMATION			STRUCTURE TRAFFIC INFORMATION		
4	Place	LIBERTY	29	AADT	1733
	Code	42338	30	AADT Year	2017
9	Location	S 17 T 66 N R 14 W	102	Direction of Traffic	2-WAY TRAFFIC
11	Milepoint	194.45 miles	109	AADT Truck Percent	23%
16	Latitude	40 D 31 M 24 S	114	Future AADT	2252
17	Longitude	92 D 30 M 13 S	115	Future AADT Year	2037
UNDERRECORD INFORMATION			STRUCTURE GEOMETRIC INFORMATION		
6	Features Intersected	N FK MID FABIUS RV	10	Inventory Rte. Vert. Clear	99 Ft. 99 In.
42B	Type of Service Under	WATERWAY	19	By pass Detour Length	14.88 miles
28B	Lanes Under Structure	00	32	Approach Roadway Width	21 Ft. 11 In.
54A	Vert. Clearance Ref.	N/A	34	Skew	20.00 Degrees
54B	Vert. Clearance	0 Ft. 0 In.	35	Struct. Flared	NO
55A	Rt. Lat Clear Ref.	N/A	47	Total Horiz. Clear	21 Ft. 11 In.
55B	Rt. Lat Clearance	0 Ft. 0 In.	48	Maximum Span Length	33 Ft. 5 In.
56	Left Lat Clearance	0 Ft. 0 In.	49	Structure Length	100 Ft. 0 In.
38	Navigation Control	PERMIT NOT REQ	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	22 Ft. 11 In.
111	Nav. Pier Protection		52	Deck Width (Out-Out)	23 Ft. 7 In.
116	Nav. Cl. Vert. Clear		53	Vert. Clearance Over Deck	99 Ft. 99 In.

Design_No = J0690



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

November 13, 2019
11:46:04am

COUNTY : SCHUYLER BRIDGE : J0690 1 REVIEW STATUS : APPROVED NBI STATUS : P
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT RUN DATE : 1/10/2019 SUBMITTAL YEAR : 2018

LOAD RATING AND POSTING INFORMATION			MATERIAL/CONSTRUCTION INFORMATION		
31	Design Load	OTHER OR UNKNOWN	43A	Main Struc. Mat type	STEEL
41	Structure Status	P - POSTED FOR LOAD	43B	Main struc Constr. Type	STRINGER/MULTIBEAM - GRD
63	Oper. Rating Meth.	LOAD FACTOR	45	# of Main Spans	3
64	Operating Rating	37 Tons.	44A	Appr Struc. Mat type	
65	Inventory Rating Meth	LOAD FACTOR	44B	Appr Struc. Cnstr. type	
66	Inventory Rating	22 Tons.	46	# of Approach Span	0
70	Bridge Posting Code	0.1-9.9% BELOW	107	Deck Mat/Constr.	1 CONCRETE CIP
PROPOSED IMPROVEMENT INFORMATION			108A	Wear Surf Mat/Constr.	6 BITUMINOUS
	Sufficiency Rating	45.8 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	3
75B	Work Done By	Contract	59	Superstructure Cond. Rating	5
76	New Struc Length	127 Ft. 11 In.	60	Substructure Cond. Rating	6
94	Struc Improve Cost	\$ 491,000	61	Channel /Channel Protection Cond. Rating	6
95	Roadway Improve Cost	\$ 49,000	62	Culvert Cond. Rating	N
96	Total Project Cost	\$ 737,000	INSPECTION INFORMATION		
97	Year of Cost Estimates	2019	90	Gen. Insp Date	11 / 17
APPRAISAL RATING INFORMATION			91	Gen. Insp. Frequency	24 Months
36A	Br. Rail App. Rating	MEETS ACCEPTBLE STND	92A	Frac. Critical Inspection	N Months
36B	Transition Rail App. Rating	MEETS ACCEPTBLE STND	93A	Frac. Critical Insp. Date	
36C	Approach Rail App. Rating	MEETS ACCEPTBLE STND	92B	Underwater Inspection	N Months
36D	Rail End Treat. App. Rating	MEETS ACCEPTBLE STND	93B	Underwater Insp. Date	
67	Struc Eval App. Rating	5	92C	Special Inspection	N Months
68	Deck Geometry App. Rating	3	93C	Special Inspection Date	
69	Underclearance App. Rating	N	BORDER BRIDGE INFORMATION		
71	Waterway Adeq. App. Rating	8	98	Neighboring State Code	
72	Approach Road App. Rating	8	98B	Neighboring State % Respon	
113	Scour Assess App. Rating	8	99	Neighboring State Struc. No.	
APPROVED POSTING INFORMATION			FIELD POSTING INFORMATION		
Approved Posting Category S-9			Field Posting Category S-9		
Ton1 Ton2 Ton3			Ton1 Ton2 Ton3		
Tonnage Values for Posting Sign 36			Tonnage Values for Posting Sign 36		
General Text for Posting Sign			General Text for Posting Sign		
6 AXLE TRUCKS OVER 36 TONS 15 MPH ON BRIDGE.			6 AXLE TRUCKS OVER 36 TONS 15 MPH ON BRIDGE.		

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

November 13, 2019
11:46:04am

COUNTY : SCHUYLER BRIDGE : J0690 1 REVIEW STATUS : REVIEW NBI STATUS : T
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT RUN DATE : 7/22/2019 SUBMITTAL YEAR : 2019

GENERAL STRUCTURE INFORMATION			ROUTE DESIGNATION INFORMATION		
1	State	MISSOURI	5A	Record Type	ROUTE CARRIED 'ON' STRUCT
2	District	NE	5B	Route Signing Prefix	US
3	County	SCHUYLER	5C	Designated Level of Service	MAINLINE
8	Federal ID No.	5487	5D	Route Number	00136
27	Year Built	1931	5E	Directional Suffix	NOT APPLICABLE
106	Year Reconstructed	0	7	Facility Carried	US 136 E
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	NOT ELIGIBLE FOR NR OF HP	26	Functional Classification	06-RURAL MINOR ARTERIAL
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	YES
STRUCTURE LOCATION INFORMATION			STRUCTURE TRAFFIC INFORMATION		
4	Place	LIBERTY	29	AADT	1751
	Code	42338	30	AADT Year	2018
9	Location	S 17 T 66 N R 14 W	102	Direction of Traffic	2-WAY TRAFFIC
11	Milepoint	196.02 miles	109	AADT Truck Percent	23%
16	Latitude	40 D 31 M 24 S	114	Future AADT	2276
17	Longitude	92 D 30 M 13 S	115	Future AADT Year	2038
UNDERRECORD INFORMATION			STRUCTURE GEOMETRIC INFORMATION		
6	Features Intersected	N FK MID FABIUS RV	10	Inventory Rte. Vert. Clear	99 Ft. 99 In.
42B	Type of Service Under	WATERWAY	19	By pass Detour Length	15.00 miles
28B	Lanes Under Structure	00	32	Approach Roadway Width	21 Ft. 12 In.
54A	Vert. Clearance Ref.	N/A	34	Skew	20.00 Degrees
54B	Vert. Clearance	0 Ft. 0 In.	35	Struct. Flared	NO
55A	Rt. Lat Clear Ref.	N/A	47	Total Horiz. Clear	21 Ft. 12 In.
55B	Rt. Lat Clearance	0 Ft. 0 In.	48	Maximum Span Length	33 Ft. 6 In.
56	Left Lat Clearance	0 Ft. 0 In.	49	Structure Length	100 Ft. 1 In.
38	Navigation Control	PERMIT NOT REQ	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	22 Ft. 12 In.
111	Nav. Pier Protection		52	Deck Width (Out-Out)	23 Ft. 7 In.
116	Nav. Cl. Vert. Clear		53	Vert. Clearance Over Deck	99 Ft. 99 In.

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

November 13, 2019
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COUNTY : SCHUYLER BRIDGE : J0690 1 REVIEW STATUS : REVIEW NBI STATUS : T
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT RUN DATE : 7/22/2019 SUBMITTAL YEAR : 2019

LOAD RATING AND POSTING INFORMATION			MATERIAL/CONSTRUCTION INFORMATION		
31	Design Load	OTHER OR UNKNOWN	43A	Main Struc. Mat type	STEEL
41	Structure Status	POSTED FOR LOAD	43B	Main struc Constr. Type	STRINGER/MULTIBEAM - GRD
63	Oper. Rating Meth.	LOAD FACTOR	45	# of Main Spans	3
64	Operating Rating	37 Tons.	44A	Appr Struc. Mat type	000
65	Inventory Rating Meth	LOAD FACTOR	44B	Appr Struc. Cnstr. type	000
66	Inventory Rating	22 Tons.	46	# of Approach Span	0
70	Bridge Posting Code	0.1-9.9% BELOW	107	Deck Mat/Constr.	1 CONCRETE CIP
PROPOSED IMPROVEMENT INFORMATION			108A	Wear Surf Mat/Constr.	6 BITUMINOUS
Sufficiency Rating 45.7 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	3
75B	Work Done By	Contract	59	Superstructure Cond. Rating	5
76	New Struc Length	127 Ft. 11 In.	60	Substructure Cond. Rating	6
94	Struc Improve Cost	\$ 491,000	61	Channel /Channel Protection Cond. Rating	6
95	Roadway Improve Cost	\$ 49,000	62	Culvert Cond. Rating	N
96	Total Project Cost	\$ 737,000	INSPECTION INFORMATION		
97	Year of Cost Estimates	2019	90	Gen. Insp Date	11 / 17
APPRAISAL RATING INFORMATION			91	Gen. Insp. Frequency	24 Months
36A	Br. Rail App. Rating	MEETS ACCEPTBLE STND	92A	Frac. Critical Inspection	N Months
36B	Transition Rail App. Rating	MEETS ACCEPTBLE STND	93A	Frac. Critical Insp. Date	
36C	Approach Rail App. Rating	MEETS ACCEPTBLE STND	92B	Underwater Inspection	N Months
36D	Rail End Treat. App. Rating	MEETS ACCEPTBLE STND	93B	Underwater Insp. Date	
67	Struc Eval App. Rating	5	92C	Special Inspection	N Months
68	Deck Geometry App. Rating	3	93C	Special Inspection Date	
69	Underclearance App. Rating	N	BORDER BRIDGE INFORMATION		
71	Waterway Adeq. App. Rating	8	98	Neighboring State Code	
72	Approach Road App. Rating	8	98B	Neighboring State % Respon	
113	Scour Assess App. Rating	8	99	Neighboring State Struc. No.	
APPROVED POSTING INFORMATION			FIELD POSTING INFORMATION		
Approved Posting Category S-9			Field Posting Category S-9		
Ton1 Ton2 Ton3			Ton1 Ton2 Ton3		
Tonnage Values for Posting Sign 36			Tonnage Values for Posting Sign 36		
General Text for Posting Sign			General Text for Posting Sign		
6 AXLE TRUCKS OVER 36 TONS 15 MPH ON BRIDGE.			6 AXLE TRUCKS OVER 36 TONS 15 MPH ON BRIDGE.		

Design_No = J0690