

COUNTY



# Missouri Department of Transportation **Bridge Inventory and Inspection System Non-State Structure Inspection Report**

County: FRANKLIN NONSTATBR 23794  $\textbf{District}: \ SL$ 4330001 Class: Bridge: Federal ID:

GENERAL STRUCTURE INFORMATION

00433 [41] Structure Status: P-LOAD POSTED W/RESTRICT [5D] Route:

64496 ST. JOHNS S 0 T 44 R 1 W [4] Place Code: [9] Location:

DUBOIS CR COUNTY [22] Owner: [6] Features Intersected: OLD HWY 100 UMINCOL [7] Facility Carried: [26] Functional Classification:

[16] Latitude: [21] Maintenance Responsibility: 90 58 25.73 (DMS) 0.10 MILES [17] Longitude: [11] Milepoint:

AGE AND SERVICE - GEOMETRIC DATA - MATERIAL

1939 [27] Year Built: [106] Year Reconstructed:

38 32 25.55 (DMS)

188 FT. [51] Bridge Width: 26 FT. 0 IN. [49] Structure Length: 25 FT. 0 IN. 28 FT. 3.6 IN. [32] Approach Roadway Width: [52] Deck Width:

[42B] Type of Service Under: WATERWAY [28A] Lanes On: 2 [19] Detour Length: [28B] Lanes Under: **3.72 MILES** 

COMPONENTS	# SPANS	PRED	MATERIAL	CONSTRUCTION
MAIN SERIES	3	X	STEEL	GIRDER/FLOORBEAM SYSTEM
[107] Deck Type :			REINCONC	CIP
[108A] Wearing Surface:			ASPHALT	BITUMMAT
[108B] Membrane:			NOTAPPLIC	NONE
[108C] Deck Protection:			NOTAPPLIC	NONE

#### **AADT INFORMATION**

[29] AADT on Structure: 1,000 [30] Year: 2023 [109] AADT Truck: 10 %

[114] Future AADT: 1,600 [115] Year: 2043 [102] Direction of Traffic: 2-WAY TRAFFIC

#### STRUCTURE POSTING

FIELD POSTING Problem Code: Problem Direction Code:

Category: S-3 WEIGHT LIMIT 16 TONS.

16 Ton 1: Ton 2: Ton 3:

APPROVED POSTING

Category: S-3 WEIGHT LIMIT 16 TONS.

Ton 1: Ton 2:

#### COMPUTER GENERATED DEFICIENCY AND EVALUATION ITEMS

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.

**Rated Item** Rating Rating Date 4-MEETS MINIMUM TOLERABLE 12/13/2002 [Item 67] Structure Evaluation Rating: 5-BETTER THAN MINIMUM 12/13/2002 [Item 68] Deck Geometry Rating: [Item 69] Underclearance: N-NOT APPLICABLE 3/1/2002 27.4 % 6/6/2017 **Sufficiency Rating:** STRUCTURAL 4/29/2015 **Deficiency:** 

**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.



March 6, 2025 9:29:13am

County: FRANKLIN NONSTATBR 23794 District: SL 4330001 Class: Bridge: Federal ID: \*\*\*\*STRUCTURE GENERAL INSPECTION\*\*\*\* [90] Inspection Type: GENERAL Inspection Responsibility: DISTRICT [91] Designated Frequency: 24 **Inspection Date:** 1/28/2025 \*\* Calculated Frequency: Element Inspection Required: NO \*\* If designated interval is exceeded, then a comment providing justification must be added. Exceeding the interval by more than one month requires Bridge Division approval. **General Inspection Comments** Team Leader Inspector **Organization** CLYDE DUNKER MODOT \*\*\*\*UNDERWATER INSPECTION\*\*\*\* Inspection Category: SHALLOW-WADE Inspection Responsibility: DISTRICT [92B] Designated Frequency: 60 **Inspection Date:** 1/28/2025 \*\*Calculated Frequency: NBI: NO \*\* If designated interval is exceeded, then a comment providing justification must be added. Exceeding the interval by more than one month requires Bridge Division approval. **Underwater Inspection Comments** (RIDENJ1, 03/29/2022)--CHANGED IN 2021 FROM DRY TO SHALLOW-WADE Team Leader Inspector Organization CLYDE DUNKER MODOT \*\*\*\*SPECIAL INSPECTION\*\*\*\* Inspection Category: CHANNEL CROSS SECTIONS [92C] Designated Frequency: 120 Inspection Responsibility: DISTRICT **Inspection Date:** 2/27/2025 NBI: NO \*\*Calculated Frequency: 131 \*\* If designated interval is exceeded, then a comment providing justification must be added. Exceeding the interval by more than one month requires Bridge Division approval. **Special Inspection Comments Inspector** Team Leader **Organization** JACOB SCHMIDT MODOT Χ \*\*\*\*OTHER SPECIAL INSPECTIONS\*\*\*\* Category Frequency Calculated Frequency\*\* Inspection Responsibility NBI

\*\* If designated interval is exceeded, then a comment providing justification must be added. Exceeding the interval by more than one month requires Bridge Division approval.



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County: FRANKLIN District: SL Class: NONSTATBR Bridge: 4330001 Federal ID: 23794

### \*\*\*\*GENERAL COMMENTS AND CONDITION RATINGS\*\*\*\*

#### **General Comments:**

(GEIGEM1, 04/28/2015)--EAST FRANKLIN COUNTY - 3 SPAN\_(4) RIVETED BUILT-UP GDRS; W/ RIVETED COVER PLATES ON BOTTOM FLANGES.

(DOLEJC, 04/05/2017)--PREVIOUSLY MODOT BRIDGE H0814. SUBMITTED FOR LOAD RATING ANALYSIS IN 2017

(DOLEJC, 07/29/2019)--REVISITED 07-26-19 UPON LOWERED WATER LEVELS TO ASSESS FURTHER SECTION LOSS AT W ABUT. NO SIGNIFICANT FINDINGS THAT WARRANT REVIEW, PRIOR SECTION LOSS DOCUMENTATION AMENDED TO INCLUDE CURRENT NOTES (IN MEDIA FILE).

#### [Item 58]--Deck Condition Rating:

4-POOR CONDITION

**Rating Date:** 03/23/2017

#### **Deck Rating Comments**

(DOLEJC, 03/03/2017)--MANY WIDESPREAD MAP CRKS @ BOTTOM W/LT EFFL THROUGHOUT MULTIPLE SPANS

(DOLEJC, 03/03/2017)--HEAVY EDGE DETERIORATION THRU OUT W/ MANY DELAMS & REBAR EXPOSED.

(DOLEJC, 03/23/2017)--RANDOM AREAS OF DECK BECOMING DISINTEGRATED WITHIN THE CURBLINE LIMITS AND WHEELPATHS. WEARING SURFACE HAS BEEN REPEATEDLY PATCHED AND IN V. POOR CONDITION.

(DOLEJC, 03/29/2019)--ASPHALT MAT TRAPS WATER CAUSING MODERATE DECK SATURATION (20%) IN CENTER SPAN, (40%) W SPAN, 15% E SPAN

(DOLEJC, 03/29/2019)--2007 COMMENT... ASPHALT SURFACING IS ROUGH, PATCHED. 2017 COMMENT... ASPHALT MAT IN POOR SHAPE WITH RUTS AND WIDESPREAD SPALLING, PATCHES AND CRACKING (SHIPPN1, 01/31/2025)--MANY ASPHALT SPALLS THOUGHOUT

# [Item 59]--Superstructure Condition Rating:

4-POOR CONDITION

**Rating Date:** 04/27/2015

#### Superstructure Rating Comments

(DOLEJC, 03/14/2013)--N ROCKER @ E ABUT - BOTH ANCHOR BOLTS BROKEN OFF

(CAMPBL1, 03/05/2015)--PAINTED IN 1963.

(CAMPBL1, 04/27/2015)--PACK RUST TOP FL W/DECK LIFTING NEAR W ABUT (1/2")

(DOLEJC, 03/03/2017)--MOD RANDOM PAINT RUSTING, ESP AT TOP FLANGES WHERE DECK SATURATED

(DOLEJC, 03/23/2017)--HEAVY RUST & SECTION LOSS GIRDERS 1, 2, & 3 FROM N @ WEST ABUT NEAR GIRDER ENDS. THESE GIRDERS EXPERIENCING HEAVY TO SEVERE WEB AND BEARING STIFFENER SECTION DETERIORATION, ALONG WITH MOD FLANGE SECTION LOSS NEAR BEARINGS AND IN TOP FLANGE AS WELL.

(DOLEJC, 03/23/2017)--STRUCTURE WAS SUBMITTED FOR LOAD RATING EVALUATION IN 2015 AND DUE TO CONTINUED GIRDER DETERIORATION AND SECTION LOSS IN SEVERAL GIRDERS NEAR THE W ABUT, UPDATED LOSS MEASUREMENTS WILL BE TAKEN AND THE BRIDGE WILL BE RE-EVALUATED FOR LOAD POSTING CONSIDERATIONS.

(DOLEJC, 03/29/2019)--GUSSET PLATE AT END DIAPHR AT E ABUT W/HEAVY PACK RUST AND SOME SECT. LOSS

(DOLEJC, 03/29/2019)--GIRDERS E END, UP AGAINST BACKWALL, BEARINGS HEAVILY PACK RUSTED WITH MOD SECT LOSS AND LOSS OF BEARING AT E ABUT. DECK PUMPS RUST IN W SPAN NEAR PIER

(DOLEJC, 03/29/2019)--SUBMITTED FOR LOAD POSTING RE-EVALUATION IN 2017. LOAD POSTING LOWERED TO 16 TONS AT THIS TIME, BASED PRIMARILY ON SECTION LOSS IN CRITICAL STRESS AREAS AT GIRDER ENDS NEAR WABUTMENT

(DOLEJC, 07/29/2019)--SECTION LOSSES AT W ABUTMENT REVIEWED, NO NOTEWORTHY ADDITIONAL LOSSES THAT WARRANT FURTHER REVIEW AT THIS TIME. REVIEW AGAIN AT NEXT INSPECTION.

(SCHMIJ8, 03/22/2023)--HEAVY SECTION LOSS 2ND GIRDER FROM NORTH, BOTTOM FLANGE AT WEST ABUTMENT

(SCHMIJ8, 03/22/2023)--BEARING TIPPED BACK AT 60 F. GIRDER ENDS AGAINST BACKWALL

(SHIPPN1, 01/31/2025)--HEAVY SECTION LOSS WEST END DIAPHRAGM CONNECTION PLATES

(SHIPPN1, 01/31/2025)--HEAVY SECTION LOSS BOTTOM FLANGE WEST END BLOCKING PLACE NORTHWEST INTERIOR GIRDER

### [Item 60]--Substructure Condition Rating:

5-FAIR CONDITION

**Rating Date:** 03/22/2019

**Compass Direction:** 

Substructure Rating Comments



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(DOLEJC, 03/03/2017)--SETTLEMENT @ ABUTS

(DOLEJC, 03/03/2017)--E&W INT BENT COLUMNS SCALING

(DOLEJC, 03/03/2017)--E INT BENT HAS MOD V-CRKS W/MOD EFFLORESCENCE AT CAP AND N COLUMN

(DOLEJC, 03/03/2017)--V-CRKS W/EFFLOR AT W ABUT BACKWALL

(DOLEJC, 03/23/2017)--FEW SPALLS AT W INT BENT CAP.

(DOLEJC, 03/29/2019)--E INT BENT N COL HAS SPALLS W/REBAR

(DOLEJC, 07/29/2019)--W INT BENT CAP DELAM AT BAY 2 FROM N

(DOLEJC, 07/29/2019)--SPALL W/REBAR AT E INT BENT CAP E FACE

(MARSHK2, 05/27/2021) -- MANY LARGE CRACKS UNDER BEARING & MANY SPALLS @ E INT BT BM CAP. W ABUT BKWL WITH LARGE SPALL ACROSS TOP OF BKWL. FEW SPALLS . E ABUT DELAMINATED, SPALLED W/REBAR EXPOSED (AND SECT LOSS), GENERAL DETER. LOSS OF FILL UNDER BOTH ABUTMENTS, MAJORITY .

(SCHMIJ8, 03/22/2023)--MOD SPALLS W/RUST AT W ABUT, REBAR EXPOSED WITH SECTION LOSS

(SCHMIJ8, 03/22/2023)--VERTICAL CRACKS AT WEST INTERMEDIATE BENT

[Item 61]--Channel Condition Rating:

6-WIDESPREAD MINOR DAMAGE

**Rating Date:** 03/21/2007

**Rating Date:** 03/01/2002

**Rating Comments** 

 $(ALLBRD1,03/25/2009) -- \ BANK \ FAILURE \ UPSTREAM \ (SLIDE). \ \ LOSS \ OF \ FILL \ UNDER \ WEST \ ABUTMENT.$ 

[Item 62]--Culvert Condition Rating: N-NOT APPLICABLE

**Rating Comments** 



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County: FRANKLIN District: SL NONSTATBR 4330001 23794 Bridge: Federal ID: Class: \*\*\*\*APPRAISAL RATINGS\*\*\*\* DOESNT MEET CURRNT STND-0 **Rating Date:** 03/01/2002 [Item 36A]--Bridge Railing Appraisal: **Rating Comments** (MARTEP, 03/07/2003)--STEEL DOUBLE CHANNELS (CAMPBL1, 03/05/2015)--CURB SPALLS REPAIRED IN 2014. Rating Date: 03/01/2002 NOT PROVIDED-0 [Item 36B]--Transition Railing Appraisal: **Rating Comments** NOT PROVIDED-0 **Rating Date:** 03/01/2002 [Item 36C]--Approach Railing Appraisal: **Rating Comments** NOT PROVIDED-0 **Rating Date:** 03/01/2002 [Item 36D]--Rail End Treatment Appraisal: **Rating Comments** [Item 71]--Waterway Adequacy: DECK ABOVE FLOOD ELEV **Rating Date:** 03/01/2002 **Rating Comments** 8-VERYGOOD **Rating Date:** 03/01/2002 [Item 72]--Approach Roadway Alignment: **Rating Comments** (DOLEJC, 03/29/2019)--APPR ASPHALT IN POOR SHAPE - CRACKED AND SPALLING 8-STABLE FOR CALCULATED **Rating Date:** 3/1/2002 [Item 113]--Scour Assessment: **Type of Scour Evaluation: Rating Comments** 



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**Work Comments:** 

(DOLEJC, 03/14/2013)--SEAL ALL W.S. JTS@ BENTS

(CAMPBL1, 04/27/2015)--CHIP & PATCH ABUT BACKWALL

(DOLEJC, 03/23/2017)-- ADD LARGE ROCK AT WEST INTERIOR PIER - NORTH COLUMN. ROCK WEST BANK. EROSION - NORTH COLUMN (DEEPENING)

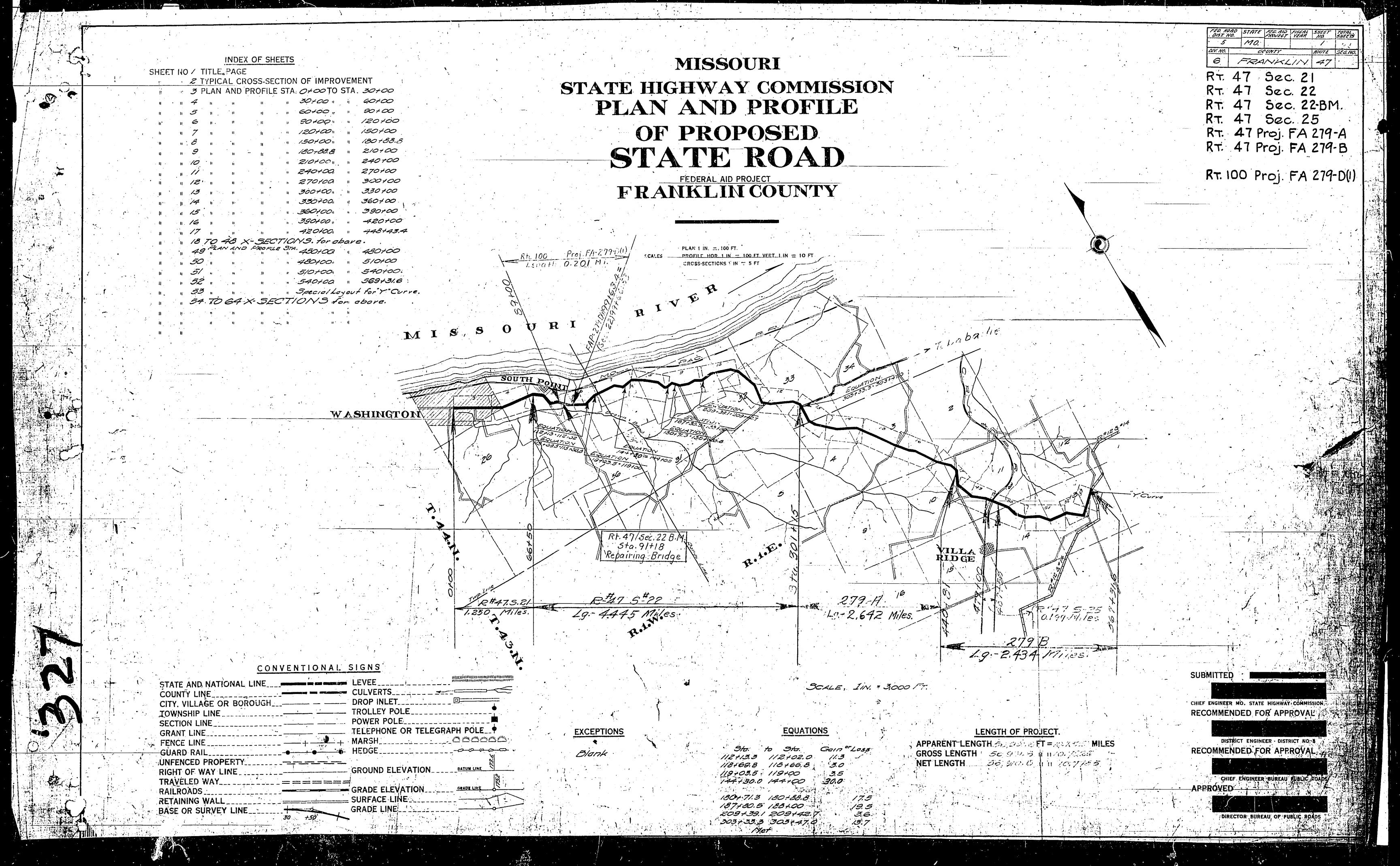
(DOLEJC, 03/23/2017)--CONSIDER BEARING REPLACEMENTS @ ABUTS WITH MORE CURRENT STYLE.

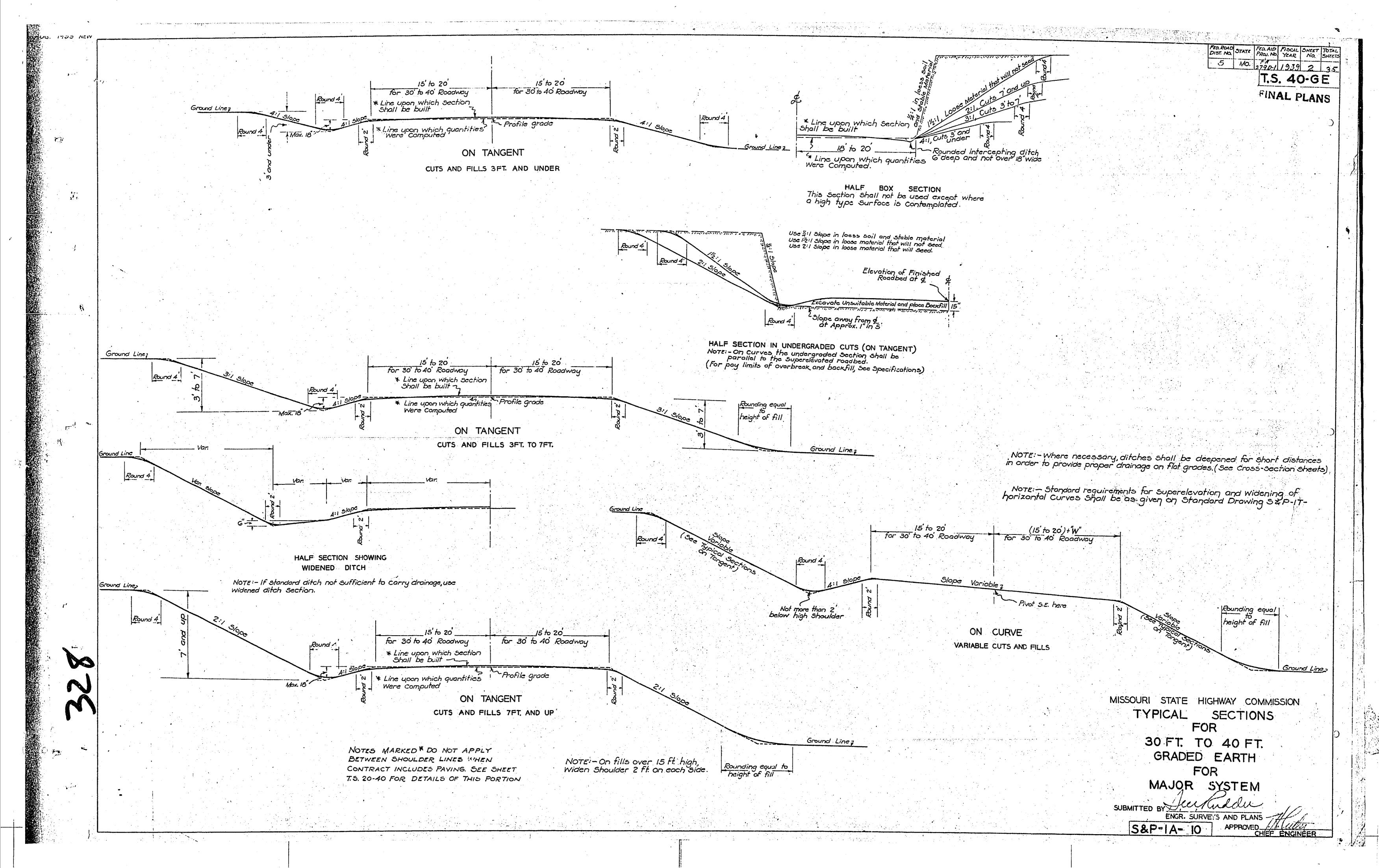
(DOLEJC, 03/23/2017)--CONSIDER REPLACEMENT OR MAJOR REHAB WORK: MAY NEED TO PERFORM DECK REPAIRS AND CHIP SEAL WEARING SURFACE IF LOOKING TO REPLACE IN THE NEXT 5 YEARS.

(DOLEJC, 03/23/2017)--G2 AND G3 FROM N @ WEST ABUT NEED ENGINEERED STRUCTURAL REPAIR @ BOTTOM OF WEB & STIFFENERS...

CONSIDER STIFFENER REPAIRS @ G1 FROM N @ WEST ABUT AS WELL.

(SHIPPN1, 01/31/2025)--PLACE PERMANENT BLOCKING NORTHWEST INTERIOR GIRDER





A CONTROL OF THE PROPERTY OF T LOCATION\_WASHINGTON-FAST MISSOURI STATE HIGHWAY COMMISSION DIST. No. FA 279 D(1) 1939 R-A TYPE 40'G.E. BRIDGE, & 22' P.C.C. PAV'T. SUMMARY OF QUANTITIES COUNTY FRAKLIN 100 EXCAVTION REMOVING OLD PAV'T. GENERAL SUMMARY Sta. Uncl. Exc. Borrow Comp. Fill Water Sta. SQ. YD. LENGTH OF PROJECT TOTAL UNITS NO. UNITE 88+00 88+00 89+50 300 F 94+50 100+53 1199.74 F End of Project Curd 5036 1 Station I-F Unclassified Excavation 99+63.4 100+53 39311 10921 39461 4387 Beginning of Project. Station 89+00.0 20.5 1-1 Class 3 Exc. For Structures Total 3931 1092 13946 1063.4 Feet 1-K Compacting Embankment (Rolling) Cu. Yd. 3946 1/ Borrow 1092// TOTAL 1499.74 F 1-A Compacting Embanisment (notting) Cu. Id. 3946

1-Q Removing Old Pavement Sq. Yd 1499.5

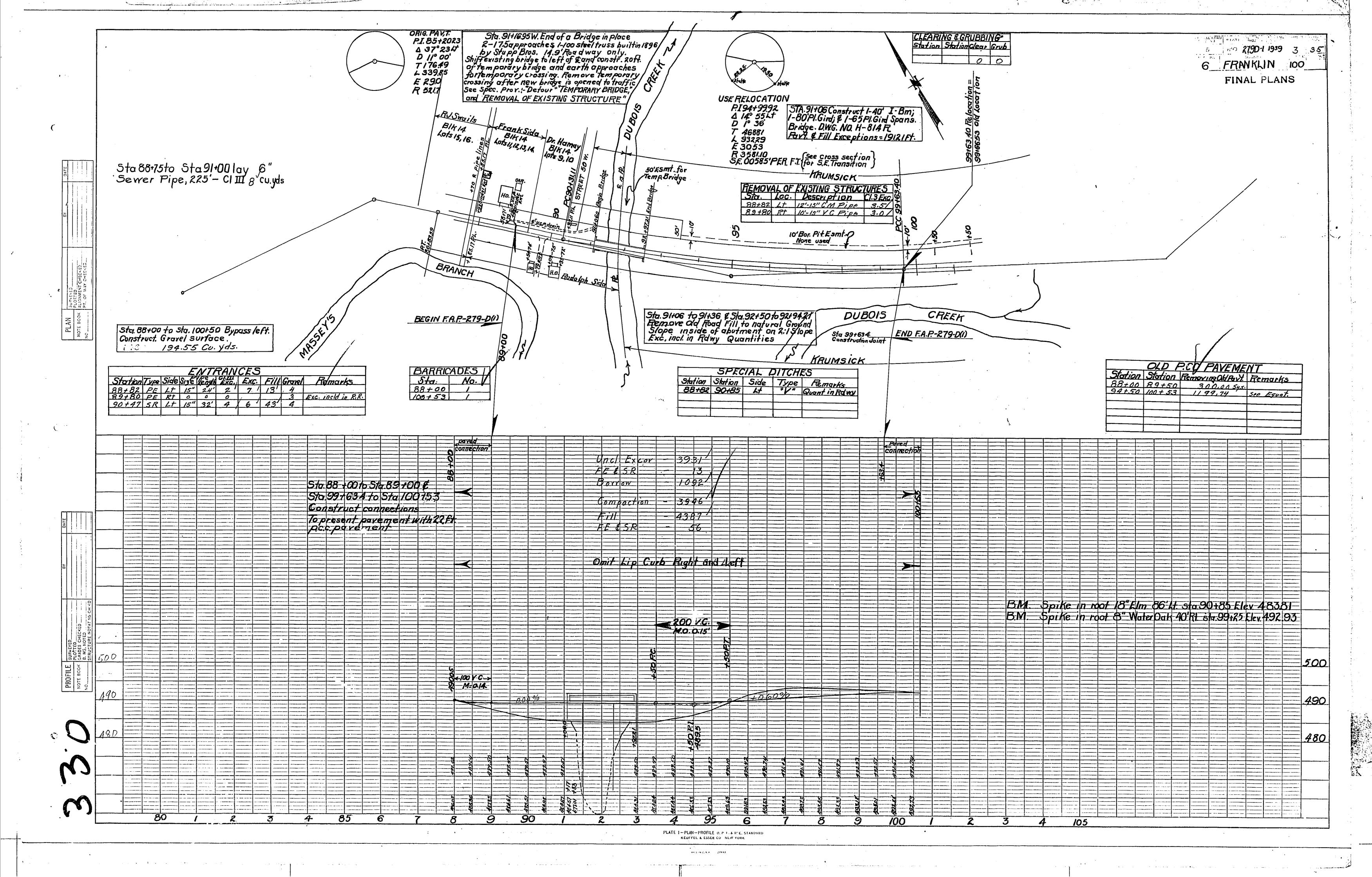
1-B-A Water (Comp. Emb's. Rolling) 100 Gal. O

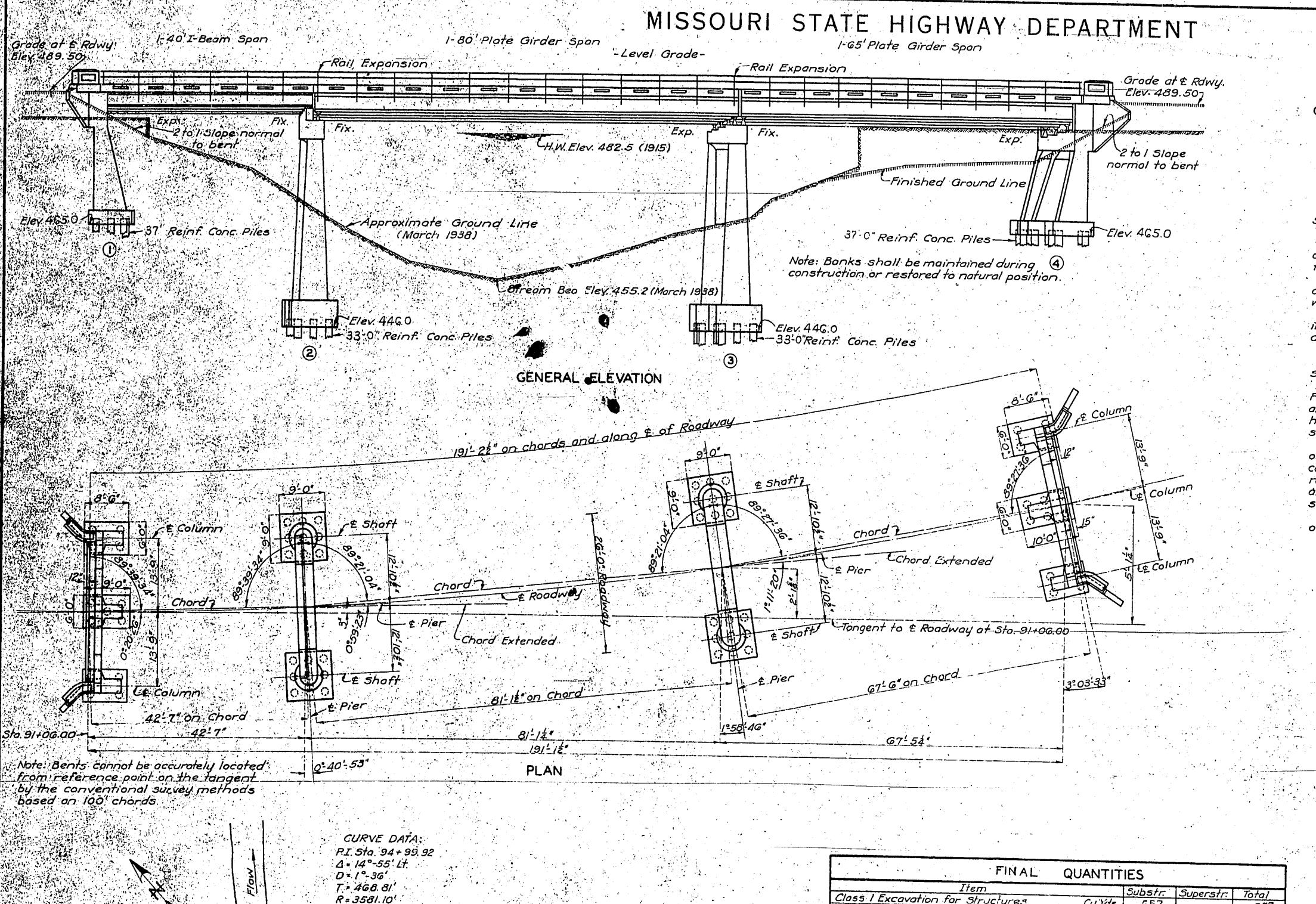
13Cord Gravel Surf.(A) or Cr. Stone Surf. Cu. Yd. 210

15-A Portland Cement Concrete Pavement Sq. Yd. 2605.0

18- 15" Culv. Pipe (Ent. & Sd. Rd.) Lin Ft. 56

28-A Barricades Each 2 Equations and Exceptions: None FE+SR \_/3 / 56 1499.5 1 Grand Total 5036 3946 4443 0 Total Corrections Feet REMOVAL OF EXISTING STRUCTURES Net Length of Project 1063.4 Feet BARRICADES Sta. Loc Description C13
88+82 P.E.Rt 12'-15" CMP 3.5 V
89+80 P.E.Lt. 10'-15" VCP 3.0 V State Length = Contingent Item 0.201 Miles No. Federal Length = Lin.Ft. 225 6" Sewer Pipe Miles 0.201 88+00 100+53 V BRIDGE-STATION 91+06 DWG MOH 814 R Total 6.5 V LENGTH OF SURFACING I-G Class I Exc. For Structures Cu.Yd. \ 657 Total Net Length of Project
Additions - Paved Connections 1063.4 Feet 1-H " 2 " "
16-B Class B Concrete (Superstr.) Cu.Yd.
16-B " B " (Substr.) Cu.Yd.
16-F Special Conc. Protection in Group A Cu.Yd.
" " B Cu.Yd. 1-H " 2 " " 341.5 Cu. Yd. 152.9 Sta. 58+00 to 189+00 +100.0 " 295.0 GRAVEL SURFACE TEMPORARY DETOUR Sta. 99+63.40 to 100+53.00 Deductions-Bridge Sta. 91+06 +86.47 ··· -191.21 ··· 4.9 BK.NO Sta. Sta. Cu Yds 88+00 100+53 14662 C Cu.Yd. 88+00 100+53 51.92 Lenath of Surfacina 17-B Fab. Struct. Steel (Pl. Gird Span) Pound 163,990 1058.66 Feet 198.54 17-B " " (I-Bm. Spans) Pound 26,160 17-B " (F-DIII. Opails) Found
17-C Steel Castings Found
17-E Gray Iron Alloy Castings Found
19-A Reinforcing Steel Pound 4
22-E Concrete Files in Place Lin. Ft.
22-H Concrete test Piles Lin. Ft.
32-A Temporary Bridges Lin. Ft.
33-A Removal of Existing Struct(see spec. prox) L. Sum Entrances Chained length = 1058.70' Found 5,510 22 Ft. PCC. Povement Pound 48,930 Grand Total 209.54 2587.93 Sa Yds 1058.70 x 22 x \$ = 210 U.5e Additional: 2.034 Widering of Bridge Ends+17.07 "/ " 2505.00 SQYD. TOTAL FARM ENTRANCES AND SIDE ROADS 2605.0 11/ " Use Sta. Type Side Size Length CI III Excay Fill Gravel 88+82 PE Left 15" 24" 2 7 13 4 89180 VPE Right 90+47 VSR Left 0 0 1 O Included in Road
4 1 6 4 4 3 Total 56' / 6 // /3 / 56 / 6" SEWER PIPE STA TO STA. / CL.3 EXC 88+75 V 91+00 V 225" OF 6" KCP





FINAL	QUANTIT	IES		
Item		Substr.	Superstr.	Total
Class I Excavation for Structures	Cu.Yds	657		657
Class 2 Excavation for Structures	Cu.Yds.	3415		341.5
Class "B" Concrete	Cu.Yds.	. 295.0	152.9	447.9
Fabricated Structural Steel (Pl. Girder Sp	ans) Lbs.		163990	163999
Fabricated Structural Steel (I-Beam Spe	n) Lbs.		26,160	2G, 1G0
Steel Castings	<u> </u>		5,510	5.510
Gray Iron Alloy Castings Reinforcing Steel	Lbs		470	470
Consists Byen By	Lb5	17,640	31,290	48,930
Concrete Piles in Place Concrete Test Piles	Lin Ft.	2,034		2,034
Concrete lest rites	Lin. Ff.	95		95
lote: Excavation for bridge made abo				<del></del>

Note: Excavation for bridge made above Elev. 462.0 will be paid for as Class | Excavation for Structures.

Excavation for bridge mode below Elev 462.0 will be paid for as Class 2 Excovotion for Structures.

Old roocway fill shall be removed to natural ground line. Payment for this excavation outside the limits of excavation for structure will be made at unit contract price for Roadway Excavation.

Estimated quantity of concrete piles in place does not include

test piles driven in place, but does include an estimated allowance of 2:0" per pile for reinforcing steel stripped and bent into footings. See Special Provisions

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

# GENERAL NOTES:

Design Specifications A.A.S.H.O.-1935 Looding H-15 A.A.S.H.O.

Structural Steel Stress 18,000 #/a" Reinforcing Steel Stress 18,000-#/0"-

Concrete Class "B" 900 #/0" All concrete shall be Class "B".

All concrete shall be proportioned by the weight proportioning method.
Bor supports and spacers will be required for reinforcing steel in

superstructure. See Standard C-110RI.

Exposed edges shall be beveled & where no other bevel is noted. Where rubber compound is specified on plans for use in partition or expansion joints, the premoulded joint shall be securely stitched to one face of concrete with copper wire.

Floor slab for each span shall be constructed full width and length at one operation. No longitudinal or transverse construction joints

Detail shop drawings for all structural steel, cost 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

and shall be approved before material is ordered or work started.

Beam flanges shall be squared up at all points of bearing.

Qualification of welding operators and electrodes for welding shown on plans will not be required.

Rivets \$\frac{1}{2}\text{\*\*}\text{\*\*}, holes \$\frac{1}{6}\text{\*\*\*}\text{\*\*} except in handrail where rivets shall be \$\frac{1}{2}\text{\*\*\*}\text{\*\*} button head bolts and for connections of roil to rail posts shall be \$\frac{1}{2}\text{\*\*}\text{\*\*} machine bolts, holes \$\frac{1}{6}\text{\*\*}\text{\*\*} All other field connections riveted except as noted. \$\frac{1}{2}\text{\*\*\*} Washers shall be used under nuts of all machine and 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 point to be applied by Contractor. Red lead

coats of red lead. No other point to be applied by Contractor. Red lead required shall be furnished by the Contractor. Payment for cleaning and pointing such surfaces will be included in unit price bid for structural steel.

Excavation for structure shall be in accordance with Specification ! of Standard and Supplemental Specifications

Drainage Area 34.5 59. Miles - Rolling.

B. M. #10-Elev. 485 36 Spike in root of 18" Elm 36'Lt. Sta 90+94 U.S.G.S. Datum

# BRIDGE OVER DU BOIS CREEK

STATE ROAD FROM WASHINGTON TO ROUTE U.S. 66 ABOUT 1.75 MILES EAST OF WASHINGTON PROJECT NO.FA279-D(I)(RT.100) STA.91+06.00

FRANKLIN

Brownbate 6/21/39

C-HORI

H-814R

Drown May 1939 by H.D. Traced May 1939 by G.W. Checked Julie 1939 by ECL

Sta. 91+06, CO-

Present bridge to be, removed (See Spec Provisions

LOCATION "SKETCH

Note: This drawing is not to scale. Follow dimensions

5.E. = 0.0585 per ff

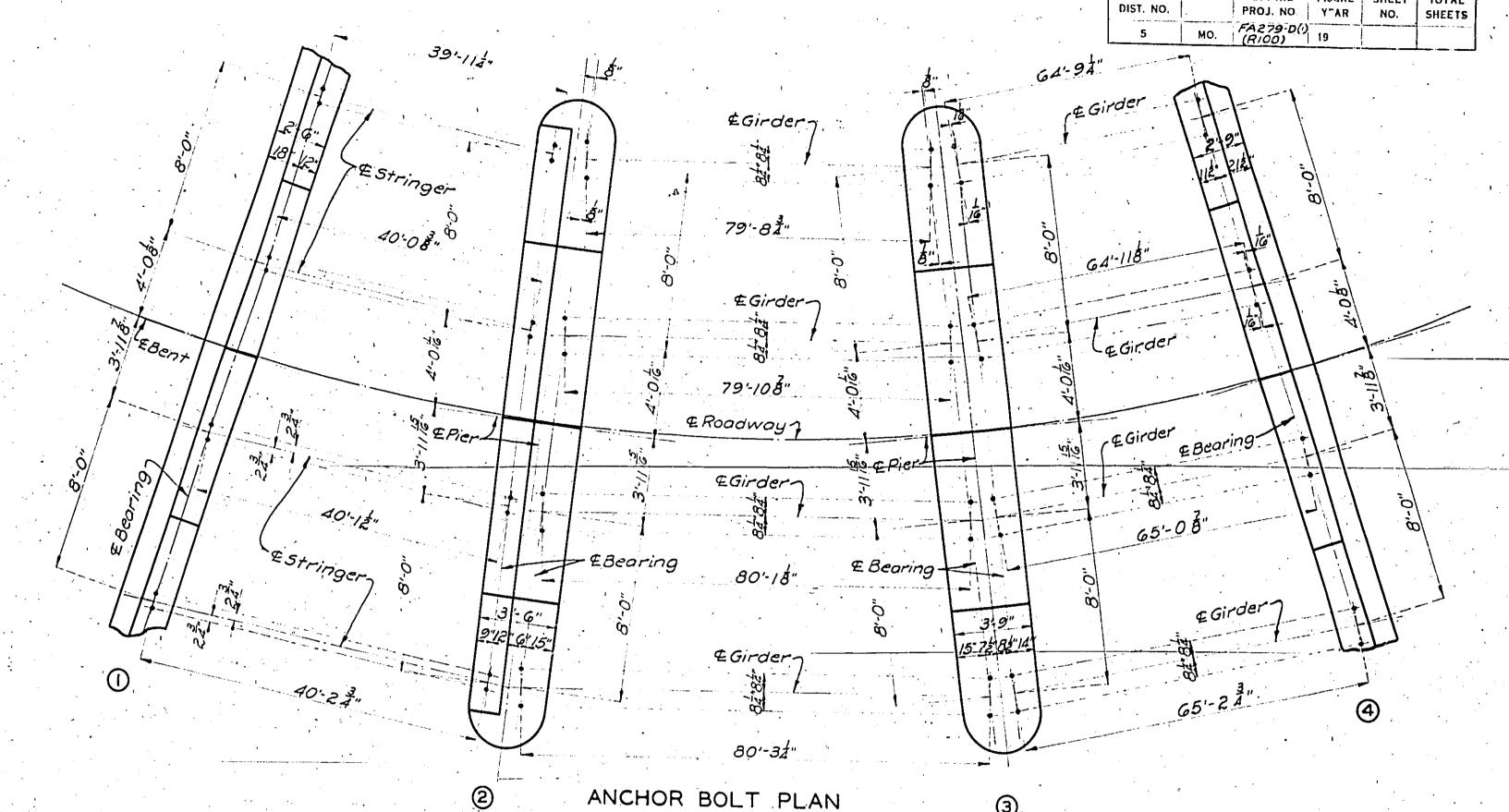
Proposed Bridge

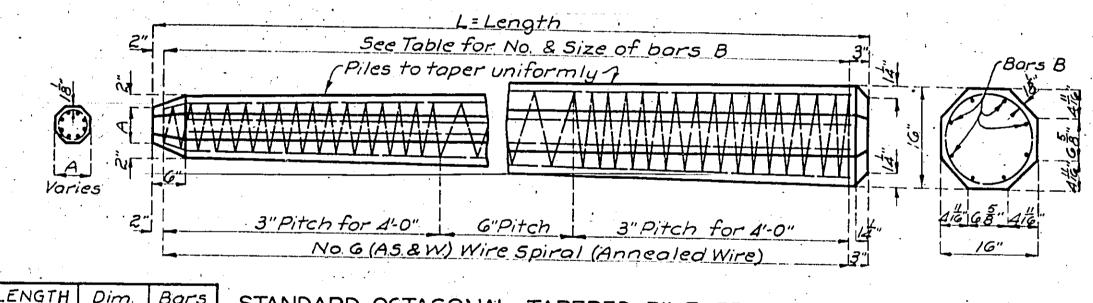
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Sheet No. 1A of 4

MISSOURI STATE HIGHWAY DEPARTMENT OF REINFORCING STEEL COMPLETE No Size Length Mark Location No. Size Length Mark Location Bending Sketches & Cutting Diagrams End Bent No. 4 End Bent No. 1 Wings 5-102" G-72" 12-6" 12'-3" 2'-9" 3-A3 CUT 3BARS 3-A4 CUT 3 BARS 12'-6" 125" 5'- 6" 5-74" | 6'-74" 12'-3" 2'-6" 9-9" 2-A5 CUT 2 BARS 2-A8 CUT 2 BARS 2-A7 CUT 2 BARS 2-A6 CUT 2 BARS G'-3" B8 & BEND AS SHOWN Curbs Footings B"# 5'-9" DI Hounches Beam 6'-24" 1'-01" 10'-3" 7'-9" A'-9" 12'-G" 29'-6" Curbs 2-All CUT 2 BARS 4-B7 CUT 4BARS 4-B2 CUT 4 BARS &BEND AS SHOWN Haunches 3-AI5 CUT 3 BARS 4:10" 8 Variable A7-11-15 & BEND AS SHOWN 10'-6" A9 | 29'-6" H7 Backwall 11-0" 5'-3" R2 29'-6" H7 Backwall A7-A9-A11-A15 3-C2 CUT 6 BARS 6'-52" HA 29'-6" TI 13'-0" H18 6'-0" 10'-6" 3-AI6 CUT 3 BARS 11'-0" T3 9-3" | 7-9" 2 3 " \$ 10'-0" T4 Rail 3-9" RI 12'-6" UI 5'-3" Beam HI-HI7 2-AI2 CUT 2 BARS 7'0" T3 11'-3" UZ 1'-9" 5 2"¢ 10-3" U3 Bockwall 9'-9" U4 3-BIO CUT 3 BARS Columns /3'-G" 5'-9" 2'-6" 8'-3" 10-3" U9 Beam 17'9" VI Column 4-89 CUT 4 BARS Backwall V2 13'-9" Column G 2"\$ 7'-6" 30-3" | U13 V4 Columns 6'-6" 2'-9" 12 4"\$ 27-6" UIA 9'-3" 12 2 8'-6" U15 U5-U15 10 10 17 Beam 4-BI3 CUT 4 BARS 9'-10" 8'-2" 2'-6" U7 £ \$ 8'-G" Piers No.2&3 Wings /8'-0" 3-BI4 CUT 3BARS 2.9" UIG 32 1"\$ 8'-3" DZ Footings 52 8"0 7'-9" V5 Bockwall UI-U2-U3-U4-U6-UI3-UI4 B"\$ 15'-6" 10 | 1" a | 29:6" | H8 Web 16 Columns 3-4" 8'-8" 3 24 2"\$ 26-9" H9 11'-9" V7 10:10 - 17:4 -520 26'-0" HIO 7'-9" 18 3:11 a" U7 9:-0" HII £"\$ 6'-0" 19 1:-24" UIG 8 1"\$ 12'-0" H12. U7-U16 T5 9'-7" 3 4 1"\$ 5'-0" H13 2 3"\$ 8'-3" HI4 Hounch #2 13-102" 14-42" Superstructure 14 Z 1 3 p 11'-0" H15 262 8"\$ 2'-0" C1 Curbs 28-3" 2 3"\$ 1-9" HIG 406 g"p 7-U6 CUT 21 BARS 27'-9" 51 Slab. 202 8"\$ 9'-3" Pi & BEND AS SHOWN 30-3 52 Сар **\*\***2 118 \$"\$ 22'-0" 53 Slab & Curbs 10'-3" PZ 14'-9है" 15'-5है 30'-3" 20 3"0 177 5"\$ 28-9" 11'-0" P3 16'-6" 11'0" 27'-6" 118 8 4 34-3 55 12'-0" P4 6-UI3 CUT 6 BARS 12 5 4 31-3" 56 12-UI4 CUT 12 BARS 19'-9" P5 Cap 9'-6" P6 Cap \*3 & BEND AS SHOWN & BEND AS SHOWN 10-6" P7 ₹"# 11'-3" P8 PI-P2-P3-P4-P6-P7-P8-P9 3'-04" 5" 4'-6" 5" 2'-8" 5" 2'-3" 3"\$ 12'3" P9 " "
8"\$ 9'-6" U8 Hounch #2 12" 010 6 Shaft 19'-0" V5 13 " UII 132" UIR 16'-9" VG Symmetrical about & ---| 52 | ±"\$ | 16'-9" | V7 Web 2-52 - 10 0 10 10 29'-5k" U9-UI0-UII-UI2

Note: Dimensions given are along centerline of bars and are for computed lengths
Reinforcing bars- 3" or over in diameter, which are bent to an angle greater than 90°, shall be of structural grade.



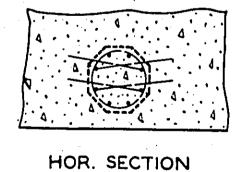


OF PILE	A A	8	STAN
20'-0"	9Å"	8-2°p	/
25'-0"	82"	8-8"¢	
30'-0"	73"	8-5"p	<i> </i>
35-0"	ì	8-5"0	
40'-0"	64	8-3"0	. 7
45'-0"	5 <del>3</del> "	8-1"\$	ι .
50'-0"	5"	8-/"=	

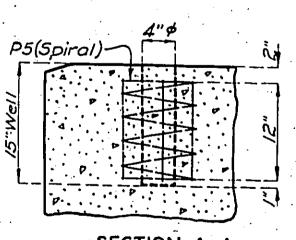
# NDARD OCTAGONAL TAPERED PILE PRECAST

Note: All bors B shall be full length. 20'-0" and 25'-0" Piles may be picked up at any point for handling.

Piles longer than 25'-0" must be supported at two points located near the quarter points.



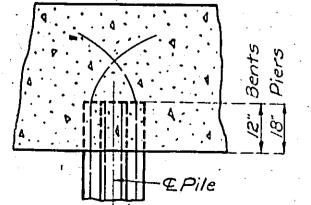
Note: Holes for plate girder span onchor bolts shall be formed in substructure by placing and setting with templates, 4"ex15" wells.



PART PLAN

SECTION A-A

DETAILS OF ANCHOR BOLT, WELLS FOR PLATE GIRDER SPANS



VERT. SECTION

Note: Four (4) of the vertical bors of each concrete pile shall be stripped and cut 2'-0" above cut off elevation sothat they may be bent into the concrete footings as shown.

PILE ANCHORAGE

# BRIDGE OVER DUBOIS CREEK

STATE ROAD FROM WASHINGTON TO ROUTE U.S. 66 ABOUT 1.75 MILES EAST OF WASHINGTON PROJECT NO. FA279-D (D(RT.100) STA. 91+06.00

FRANKLIN

COUNTY

Drawn May 1939 by H.D. Traced May 1939 by EMA Checked May 1939 by F.C.L.

Note This drowing is not to scale. Follow dimensions.

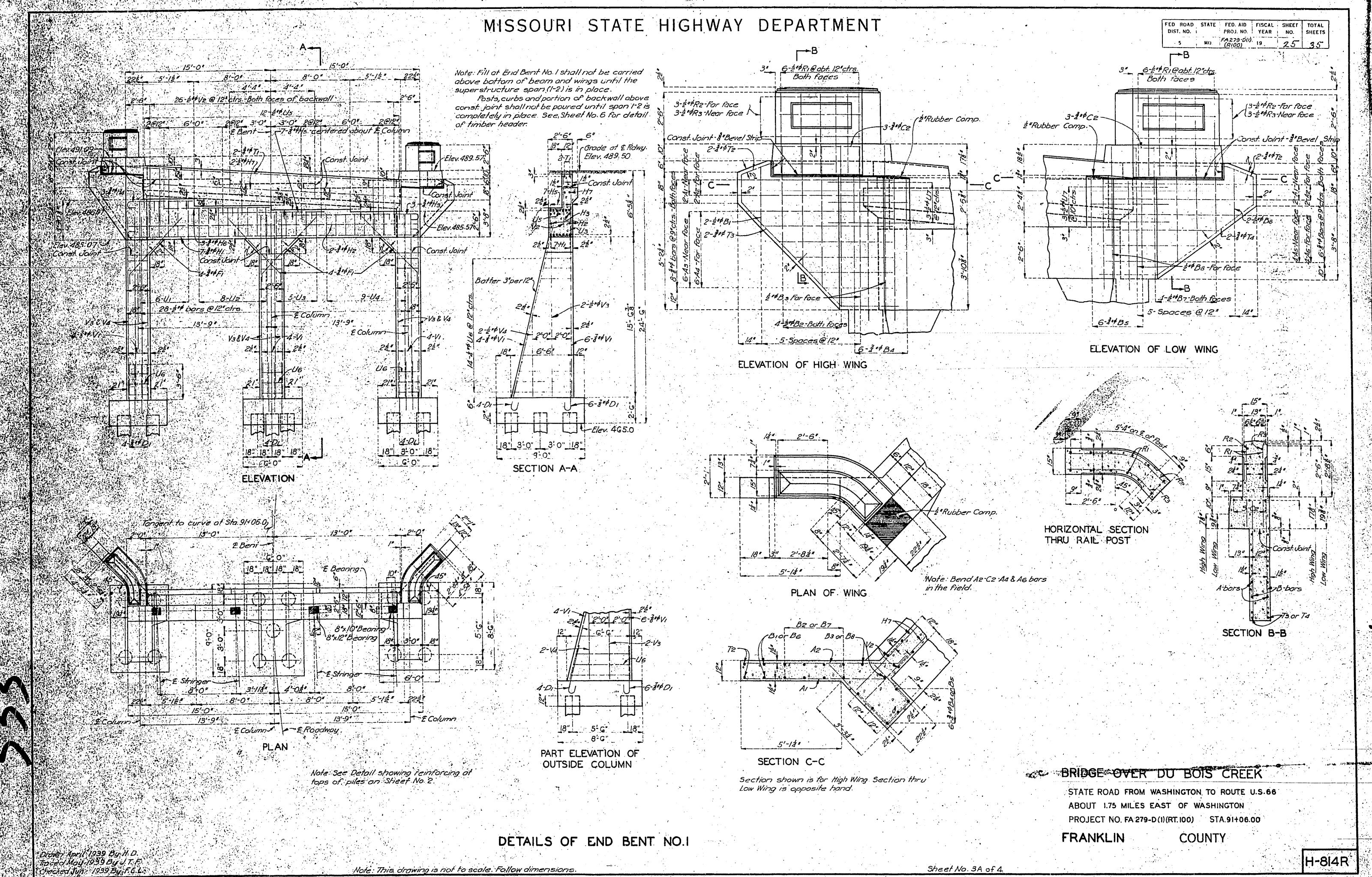
Sheet No. 2 of 8.

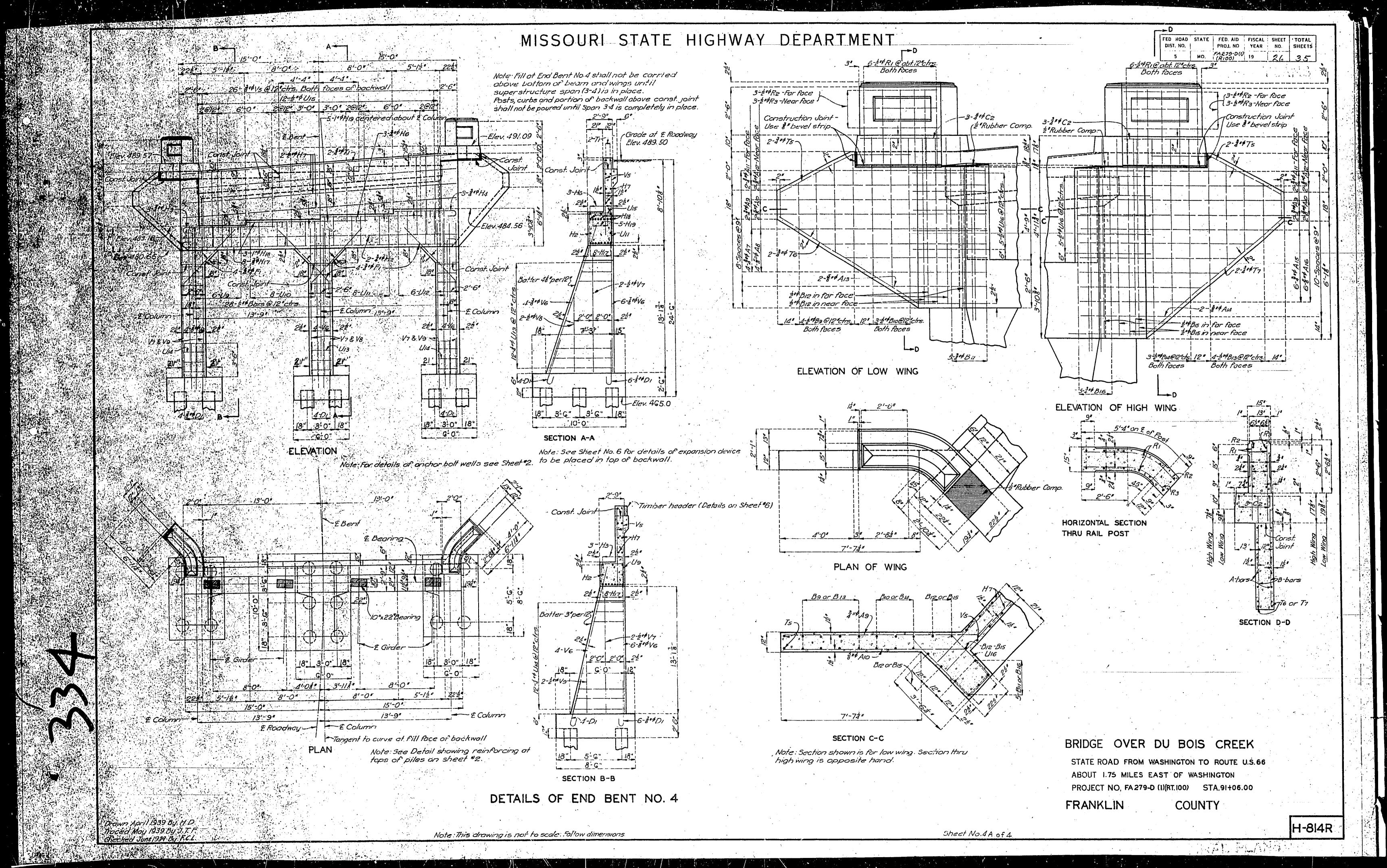
H-814R

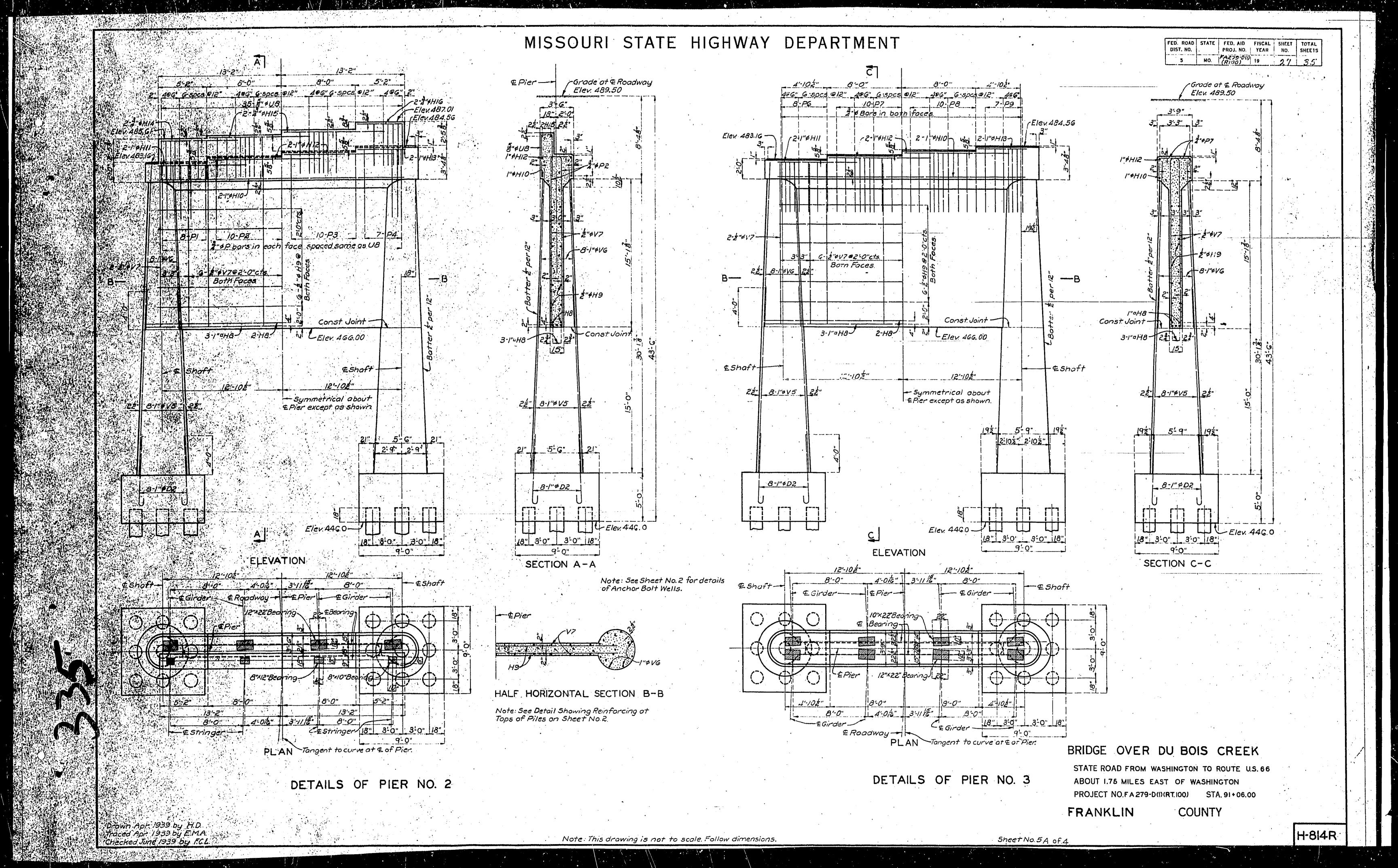
A"#X15" Anchor

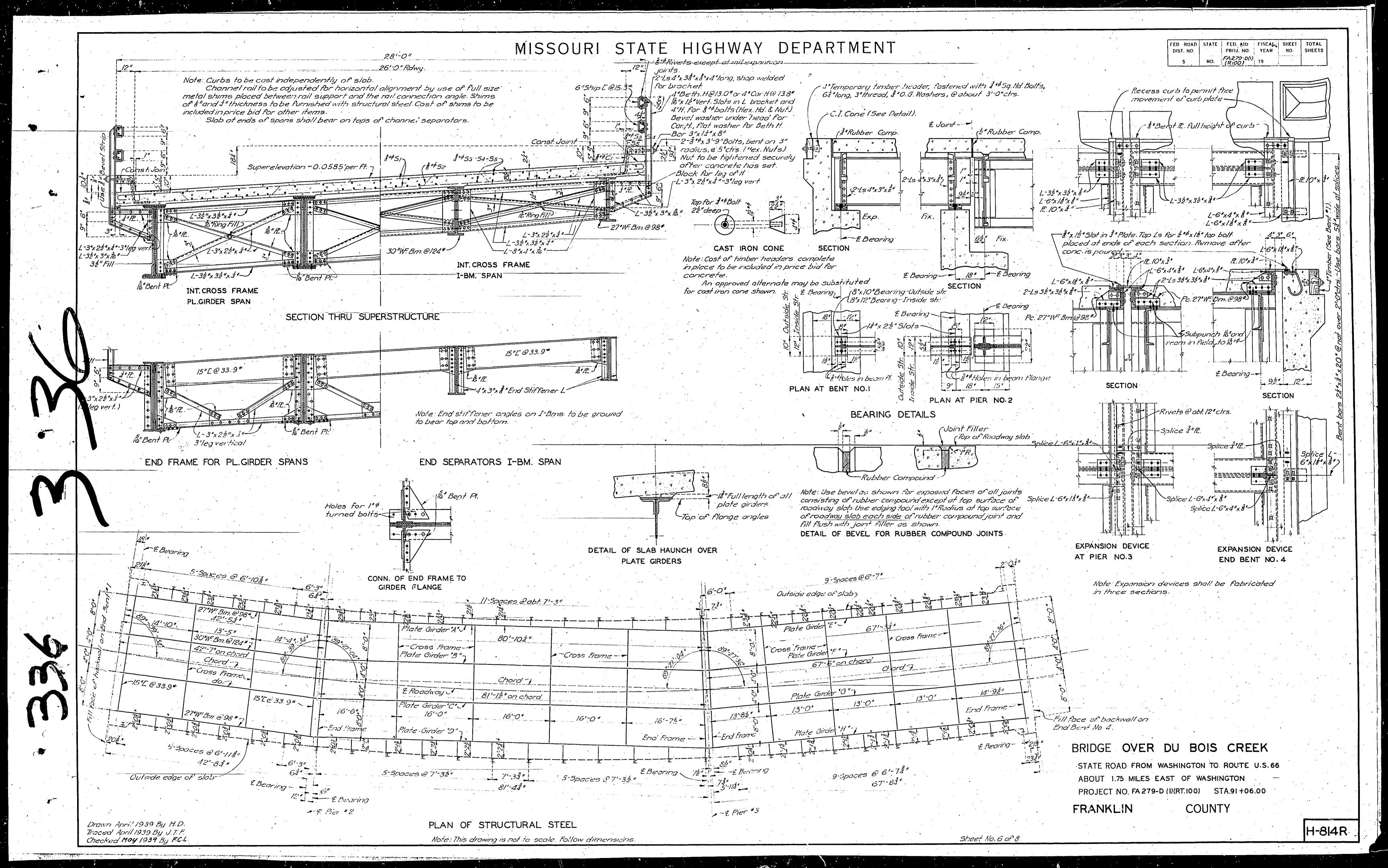
1" #P5 (Spiral)

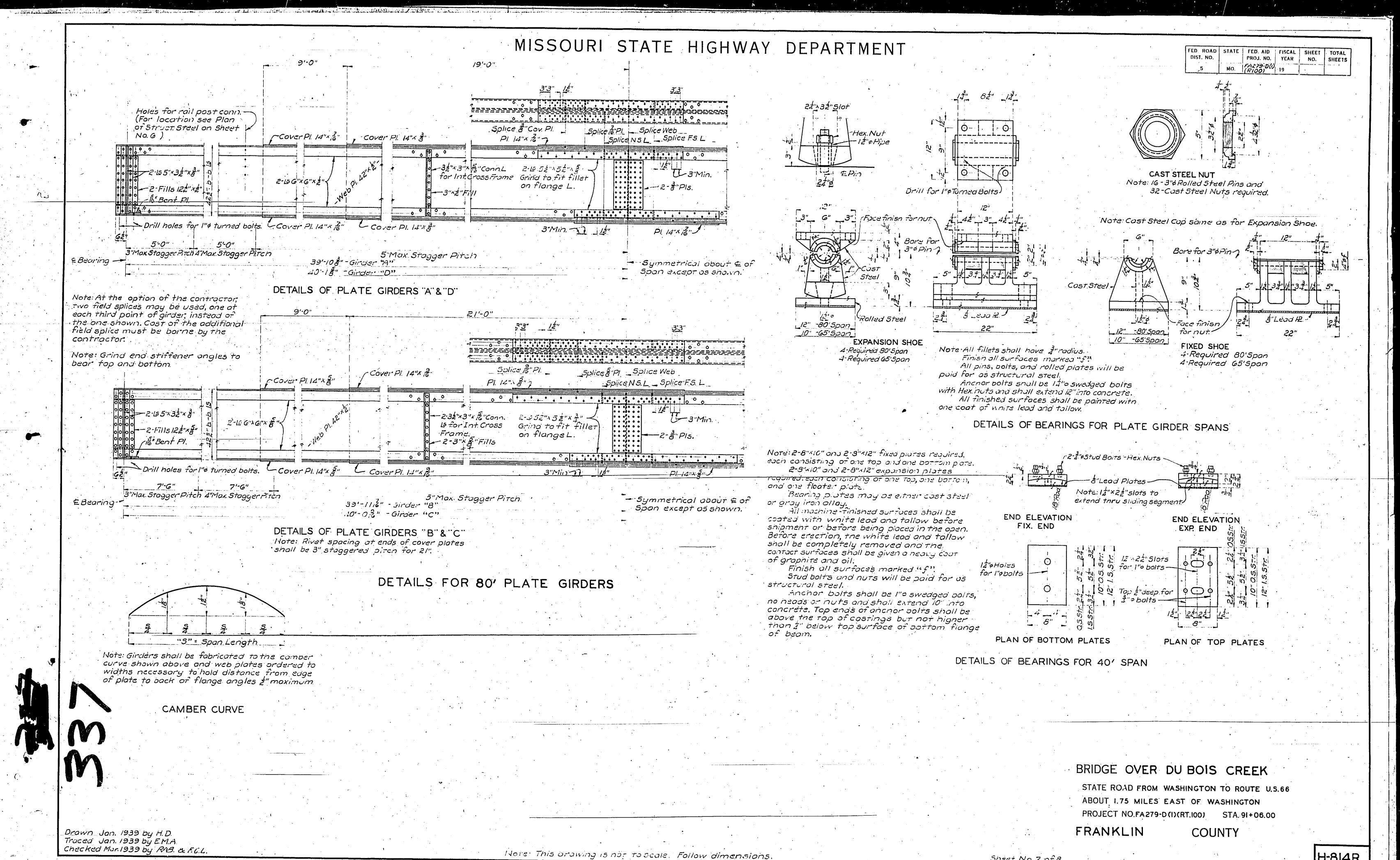
Bolt Well.











H-8|4R

