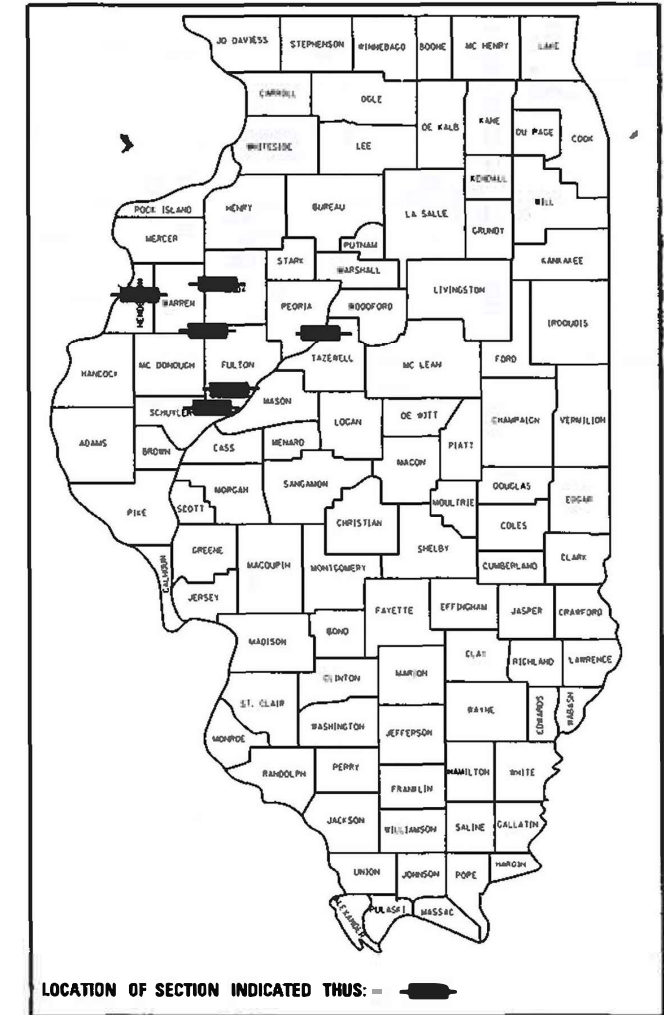


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PROPOSED
HIGHWAY PLANS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2021	ILLINOIS	58	1
CONTRACT 68G02				

• FULTON, MENDERSOHN, KNOX & TAZEWELL

D-94-004-21



INDEX OF SHEETS

- 1 COVER SHEET
- 2-3 GENERAL NOTES
- 4-6 SUMMARY OF QUANTITIES
- 7-10 PLAN SHEET PAINT LOCATIONS
- 11-13 TRAFFIC CONTROL
- 13-58 EXISTING PLAN SHEETS

STANDARDS

701001-02	701400-10
701006-05	701402-12
701011-04	701411-09
701101-05	701421-08
701106-02	701422-10
701201-05	701901-08
701301-04	704001-08

(VAR) ROUTE VARIOUS
SECTION D4 BRIDGE PAINTING 2021
PROJECT NHPP-STP-Z98R(181)
TYPE of IMPROVEMENT
VARIOUS
 C-94-005-21

ADT

- Location 1 - 675
- Location 2 - 2350
- Location 3 - 3450
- Location 4 - 1250
- Location 5 - 10900
- Location 6 - 9175
- Location 7 - 9175
- Location 8 - 13956
- Location 9 - 13262
- Location 10 - 8250



Location 5 - SN 036-0036

Location 4 - SN 029-0007

Location 2 - SN 029-0053

Location 6-7 - SN 048-0007, -0008

Location 8-9 - SN 090-0071, -0072

Location 10 - SN 090-0144

Location 3 - SN 029-0056

Location 1 - SN 029-0022

J.U.L.I.E.
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
 1-800-892-0123
 OR 811

PROJECT ENGINEER MAUREN ADDIS (309) 671-3454
 PROJECT MANAGER CHRIS EVERS (309) 671-3459
 CONTRACT NO. 68G02
 CATALOG NO. 036117-00D

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUBMITTED Dec 11 2020
Rensae A. Garnett KSD
 REGIONAL ENGINEER

January 29, 2021
Scott A. Etk
 ENGINEER OF DESIGN AND ENVIRONMENT

January 29, 2021
James J. [Signature]
 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

COMMITMENTS

No Commitments have been made for this project.

GENERAL NOTES

All cleaning and painting shall be as specified in the Special Provisions for "Cleaning and Painting Existing Structural Steel." All areas indicated on the plans shall be painted with the Paint System1-OZ/E/U. All beams, brackets and all other structural steel shall be cleaned per Near White Metal Blasted Cleaning SSPC-SP10, according to the following schedule.

Paint locations and colors:

1. 029-0022 IL 100/Otter Creek: Paint beam ends (5') at abutments and Pier 1 (5' both directions from P1).
Color - Gray Munsell No. 5B 7/1
2. 029-0053 IL 41/Cedar Creek: paint fascia beams (outside surfaces and bottom of bottom flange) and downspouts.
Color - Blue Munsell No. 10B 3/6
3. 029-0056 IL 78&97/Spoon River: zone painting in two zones under transverse construction joints in the deck.
Color - Interstate Green Munsell No. 7.5G 4/8
4. 029-0007 US 24/BNRR: paint the entire structure.
Color - Gray Munsell No. 5B 7/1
5. 036-0036 US 34/BNRR: 5' of beam ends at abutments.
Color - Gray Munsell No. 5B 7/1
6. 048-0007 EB I-74/ATSF RR: paint entire structure.
Color - Gray Munsell No. 5B 7/1
7. 048-0008 WB I-74/ATSF RR: paint entire structure.
Color - Gray Munsell No. 5B 7/1
8. 090-0071 EB US 24/IL 116: paint entire structure.
All interior surfaces Color - Gray Munsell No. 5B 7/1.
Fascia beams Color - Blue Munsell No. 10B 3/6
9. 090-0072 WB US 24/IL 116: paint entire structure.
All interior surfaces Color - Gray Munsell No. 5B 7/1.
Fascia beams Color - Blue Munsell No. 10B 3/6
10. 090-0144 E Washington St/Farm Creek: 5' of beam ends at abutments.
Interior surfaces Color - Gray Munsell No. 5B 7/1.
Fascia beams Color - Blue Munsell No. 10B 3/6

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USER NAME = eversct DESIGNED - DRAWN - CHECKED - DATE -				REVISED - REVISED - REVISED - REVISED -				STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		GENERAL NOTES				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 100,0000' / in. PLOT DATE = 12/11/2020														D4 BRIDGE PAINTING 2021		*	58	2
												CONTRACT NO. 68G02				ILLINOIS FED. AID PROJECT		
								SCALE:	SHEET	OF	SHEETS	STA.						

A minimum of 7 air monitor(s) will be required to monitor abrasive blasting operations at this site. See special provision for "Containment and Disposal of Lead Paint Cleaning Residues."

Structures containing lead are listed below.
Air Monitors are to be used as follows:

- Location 4 - 029-0007 US 24/BNRR: Two Air Monitors (SW & NE)
- Location 5 - 036-0036 US 34/BNSF: One Air Monitor (NW)
- Location 6 - 048-0007 EB I-74/ATSF RR: One Air Monitor (SW)
- Location 7 - 048-0008 WB I-74/ATSF RR: Two Air Monitors (NE & SE)
- Location 8 - 090-0071 EB US 24/IL 116: No Air Monitor needed
- Location 9 - 090-0072 WB US 24/IL 116: One Air Monitor (NW)

Containment of cleaning residue is required to control nuisance dust. See special provisions.

SSPC QP1 (and SSPC QP2) Certification is required for this Contract.

PROJECT SPECIFIC NOTES

Do not scale plans for construction measurements. The Contractor shall field verify existing dimensions and make necessary approved adjustments prior to ordering of materials. Such variations shall not be cause for additional compensation for a change in scope.

Location 2 SN 029-0053: Five feet of the beam ends have previously been metalized and overcoated. When blast cleaning care shall be taken to remove the paint system but to make an effort to minimize removal of the bottom metalized layer.

COOPERATION WITH OTHER CONTRACTORS

Contract 68B46 for the construction of SN 090-0180 (McClugage Bridge) was let on April 26, 2019 and is currently under construction.

A cooperative effort is required with those Contractors in coordinating traffic control signing, traffic management and progression, and work at or near the project.

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PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -		CONTRACT NO. 68G02				ILLINOIS FED. AID PROJECT				
PLOT DATE = 12/11/2020	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				RURAL	RURAL	URBAN	URBAN
				80(FED) / 20(STATE)	80(FED) / 20(STATE)	80(FED) / 20(STATE)	90(FED) / 10(STATE)
				VARIOUS HENDERSON 0047	VARIOUS FULTON 0047	VARIOUS KNOX 0047	VARIOUS TAZEWELL 0047
				90% FED 10% STATE	80% FED 20% STATE		
67100100	MOBILIZATION	L SUM	1	.10	.40	.20	.30
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	2			1	1
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1	1			
70100320	TRAFFIC CONTROL AND PROTECTION, STANDARD 701422	L SUM	1				1
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	5			2	3
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1		1		
70107025	CHANGABLE MESSAGE SIGNS	CAL DAY	48	6	24	6	12
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1000			350	650
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	650				650
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	3			1	2
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	4				4
X5060601	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1		1		
X5060602	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 2	L SUM	1		1		
X5060603	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 3	L SUM	1		1		

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PLOT DATE = 12/11/2020	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2021	*	58	4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68G02	

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				80(FED) / 20(STATE)	80(FED) / 20(STATE)	80(FED) / 20(STATE)	90(FED) / 10(STATE)		
				VARIOUS	VARIOUS	VARIOUS	VARIOUS		
				HENDERSON	FULTON	KNOX	TAZEWELL		
						0047	0047	0047	0047
								90% FED 10% STATE	80% FED 20% STATE
Z0010509	CLEANING AND PAINTING STEEL BRIDGE NO. 9	L SUM	1						1
Z0010510	CLEANING AND PAINTING STEEL BRIDGE NO. 10	L SUM	1						1
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	.10	.40	.20	.30		

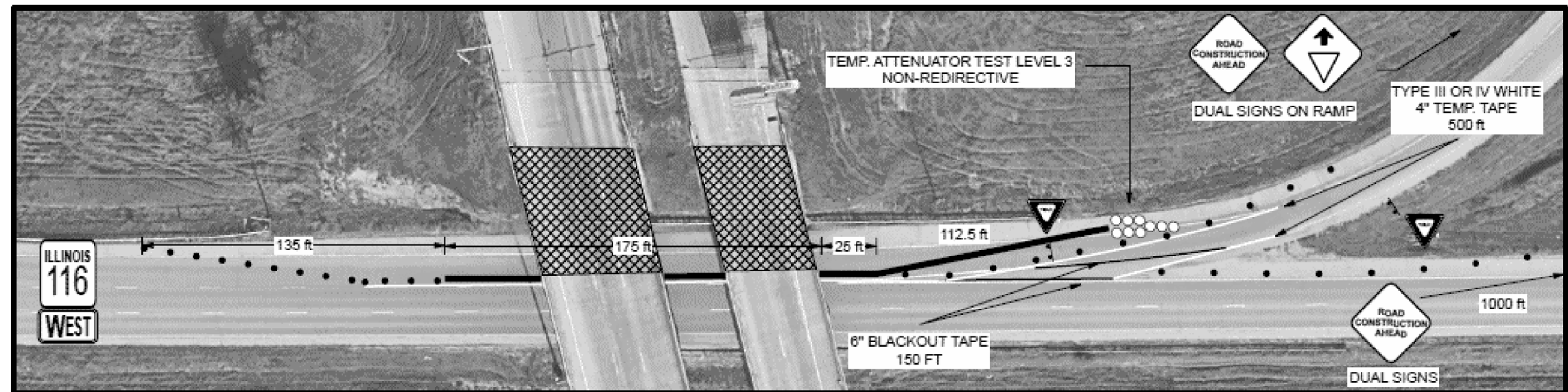
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

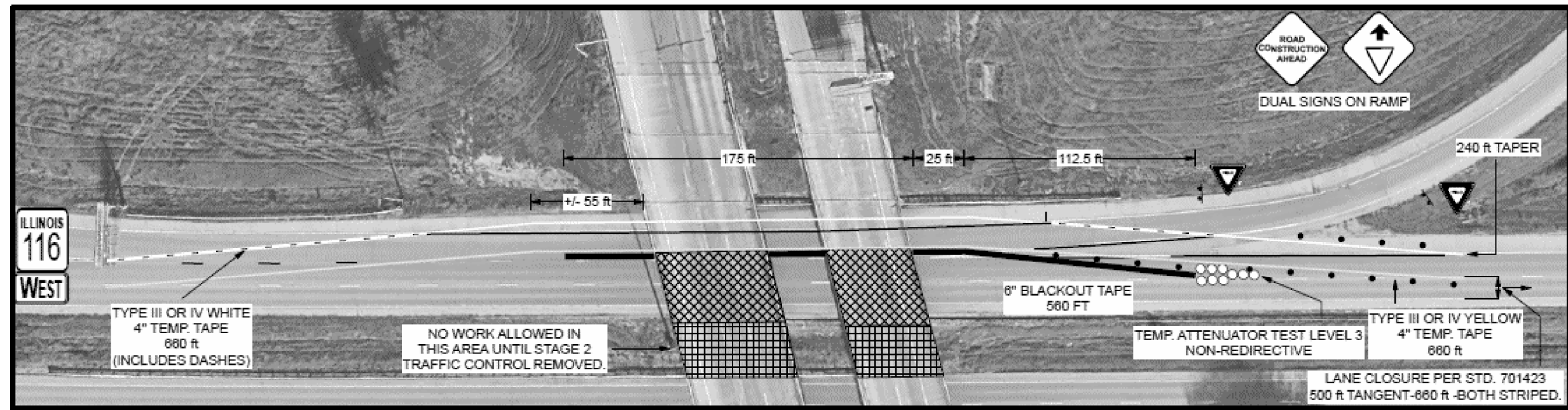
SUMMARY OF QUANTITIES

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2021	-	15	6
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68G02	

**WESTBOUND IL 116
STAGE 1**



**WESTBOUND IL 116
STAGE 2**



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL WB IL 116

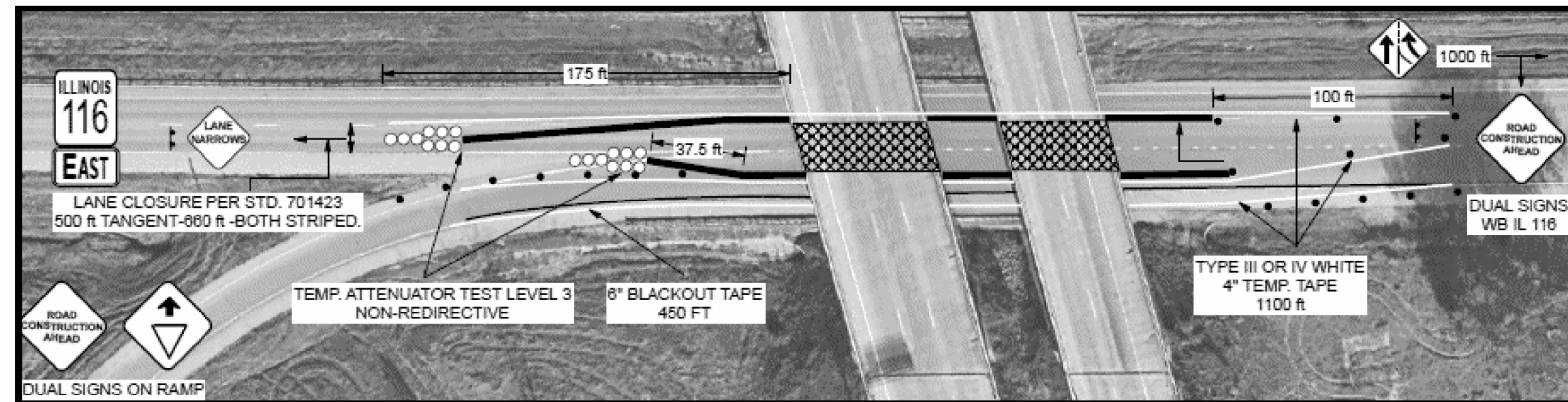
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VAR D4	BRIDGE PAINTING 2021		58	7
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68G02	

FULTON, HENDERSON, KNOX & TAZEWELL

**EASTBOUND IL 116
STAGE 3**



**EASTBOUND IL 116
STAGE 4**



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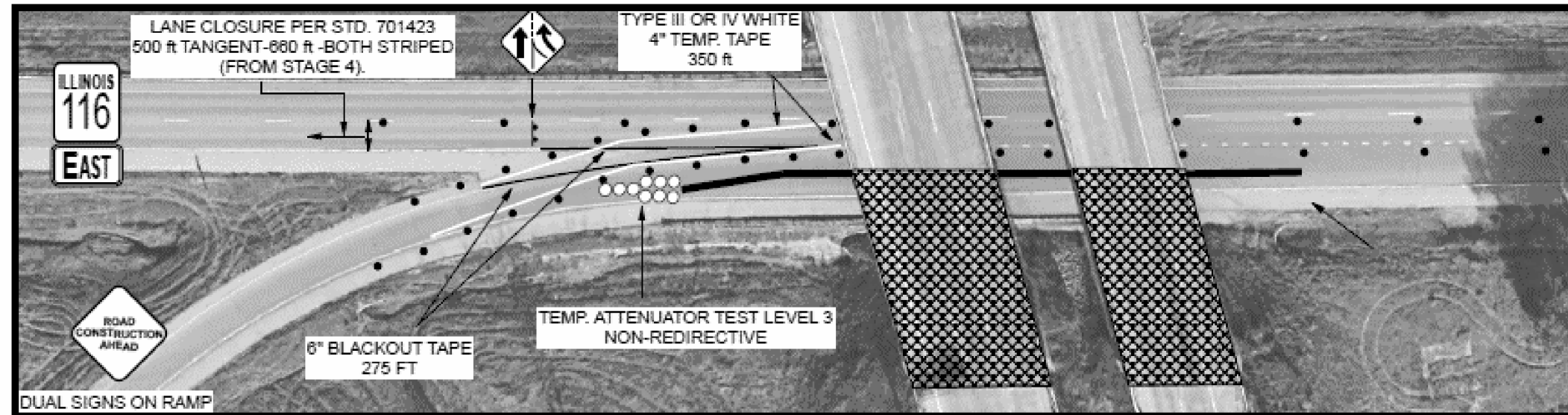
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL EB IL 116

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2021		58	8
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68G02	

FULTON, HENDERSON, KNOX & TAZEWELL

**EASTBOUND IL 116
STAGE 5**



ILLINOIS
116
EAST

ROAD
CONSTRUCTION
AHEAD

DUAL SIGNS ON RAMP

LANE CLOSURE PER STD. 701423
500 ft TANGENT-880 ft -BOTH STRIPED
(FROM STAGE 4).

TYPE III OR IV WHITE
4" TEMP. TAPE
350 ft

6" BLACKOUT TAPE
275 FT

TEMP. ATTENUATOR TEST LEVEL 3
NON-REDIRECTIVE

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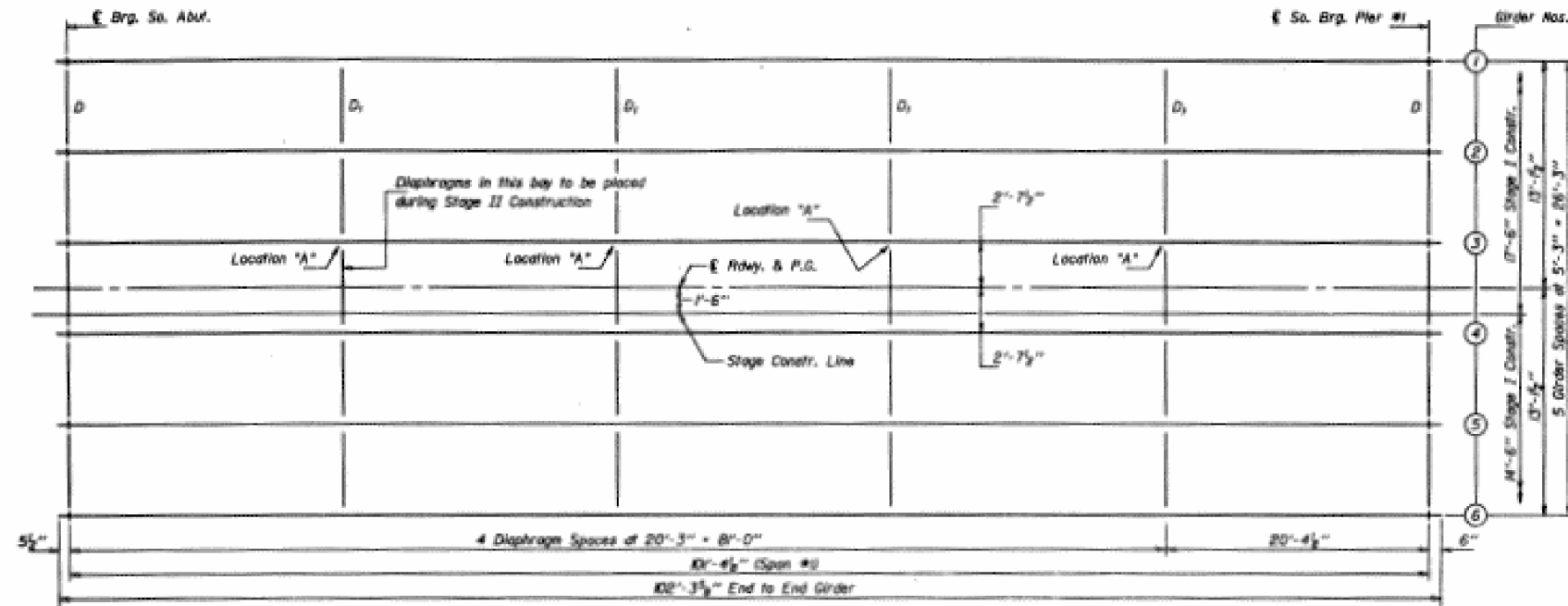
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL EB IL 116

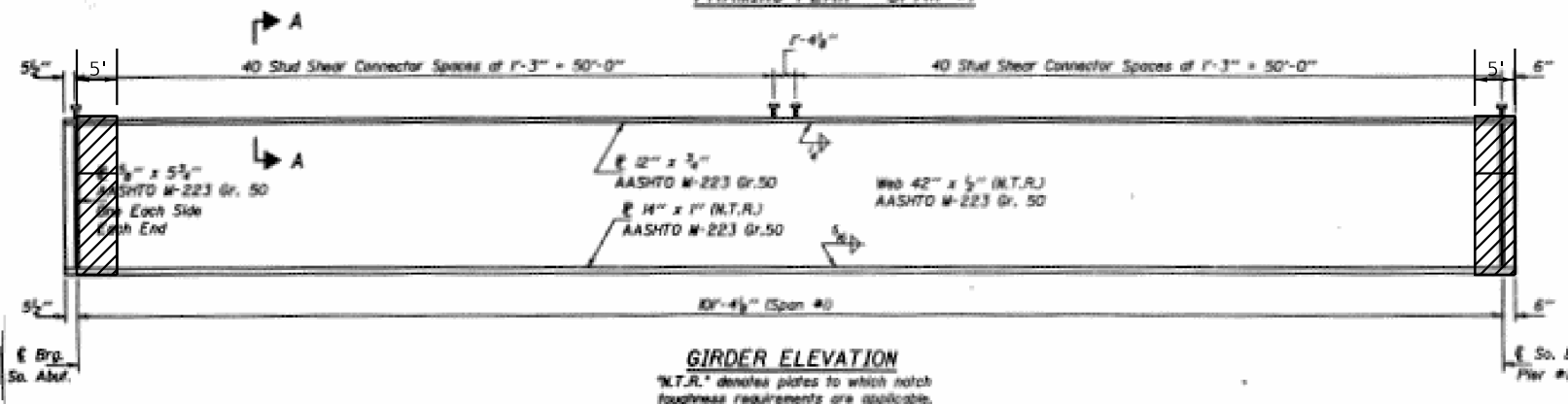
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VAR	D4 BRIDGE PAINTING 2021	*	58	9
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68G02	

* FULTON, HENDERSON, KNOX & TAZEWELL

SN 029-0022 IL 100 OVER OTTER CREEK

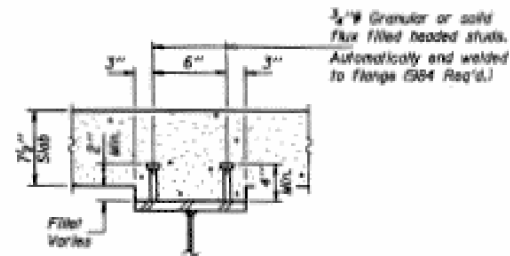


FRAMING PLAN - SPAN #1

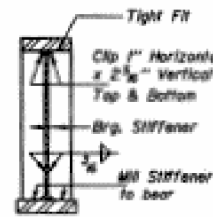


GIRDER ELEVATION

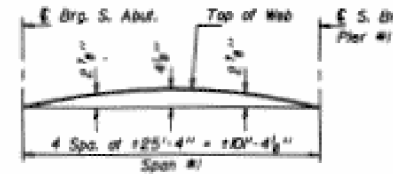
"N.T.R." denotes plates to which notch toughness requirements are applicable.



SECTION A-A



SECTION AT PIER #1



CAMBER DIAGRAM

	0.5 Sp. #1
I_x	(in ⁴) 1,403.9
I_y	(in ⁴) 33,052.6
S_x	(in ³) 686.3
S_y	(in ³) 943.8
J	(in ⁴) 0.69
M_x	(K-ft) 885.8
M_y	(K-ft) 0.82
M_x	(K) 233.7
M_y	(K) 700.6
M_x	(K) 66.7
M_y	(K) 1,498.8
M_x	(K) 3,403.8
f_x (non-comp. s.s.)	5.49
f_x (comp. s.s.)	2.97
f_x (s.s.-II)	8.06
f_x (Overload s.s.)	37.52
f_x (Total s.s.)	48.29
V	(K) 36.1

	At So. Abut.	At E So. Pier #1
R_R	(K) 44.2	44.2
R_L	(K) 30.2	30.2
$Imp.$	(K) 6.9	6.9
R (Total)	(K) 82.3	82.3

I_x and S_x are the moment of inertia and section modulus of the steel section used in computing f_x (Total & Overload).
 I_y and S_y are the moment of inertia and section modulus of the composite section used in computing f_x (Total & Overload).
 V is the maximum Live Load + Impact shear range in span.
 M_x (Applied Moment) = $LSCWP + M_xR + \frac{1}{2}W_L + DL$.
 f_x (Overload) is the sum of the stresses due to $M_x + M_y + \frac{1}{2}W_L + DL$.
 f_x (Total) is the sum of the stresses due to $LSCWP + M_xR + \frac{1}{2}W_L + DL$.
 ** Service load values

Notes: All Structural Steel shall be AASHTO M-183 except as noted.
 See sheet #20 of 30 for structural steel details.

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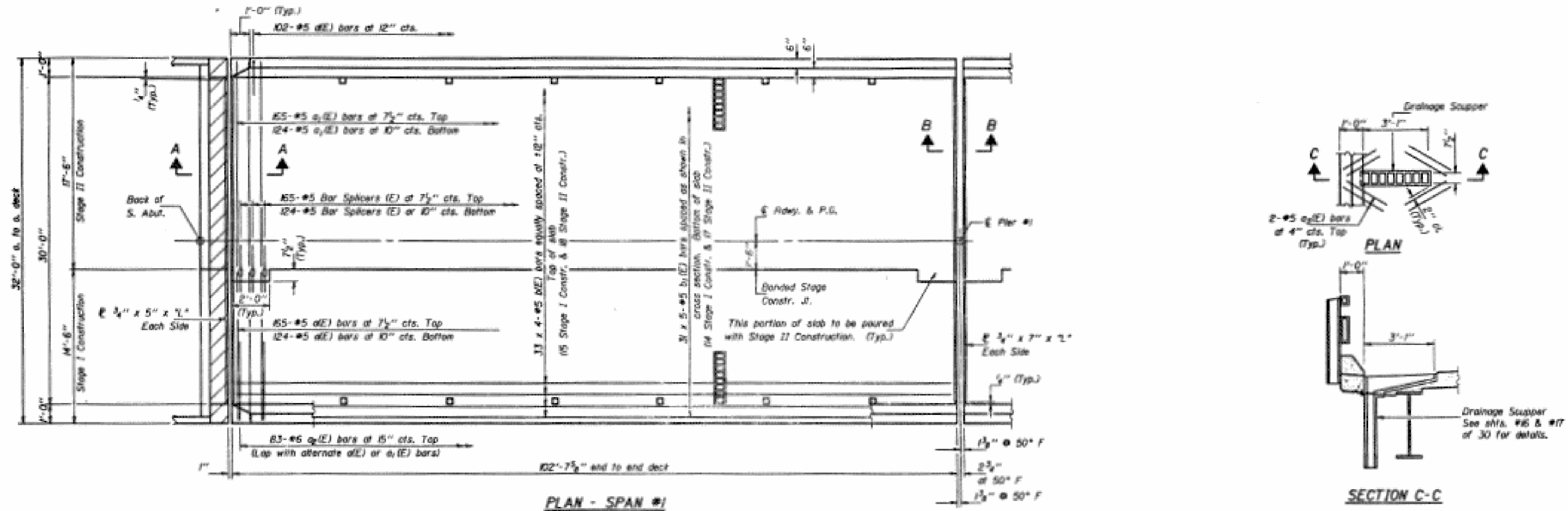
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FRAMING PLAN

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR D4 BRIDGE PAINTING 2021			58	11
CONTRACT NO. 68G02				

ILLINOIS FED. AID PROJECT
 • FULTON, HENDERSON, KNOX & TAZEWELL

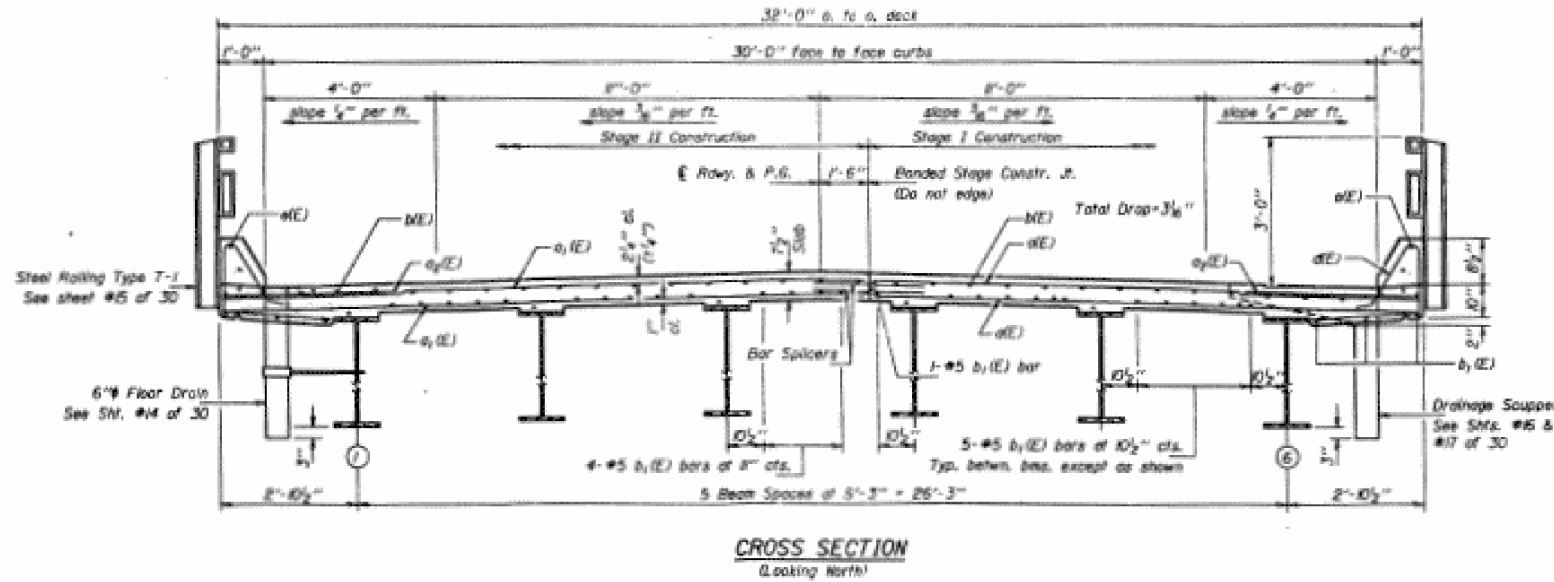
SN 029-0022 IL 100 OVER OTTER CREEK



MIN. BAR LAPS
#5 bars = 2'-2"

DIMENSION "L"
Stage I Constr. = 13'-5 1/2"
Stage II Constr. = 16'-5 1/2"

* Bar splicers lapped with #E) and #1 (E) bars shall be lapped with double the number of ties normally used.



Notes: See sheet #14 of 30 for superstructure details and Bill of Materials.
See Sheet #14 of 30 for sections of Abutments and Piers.
Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
Hatched area to be poured after superstructure formwork has been removed. Quantity of "Class X Concrete Superstructure" bled with superstructure.
See sheet #1 of 30 for spacing of Floor Drains and Drainage Scaupers.
See sheet #8 of 30 for Bar Splicer details.

INFORMATION ONLY

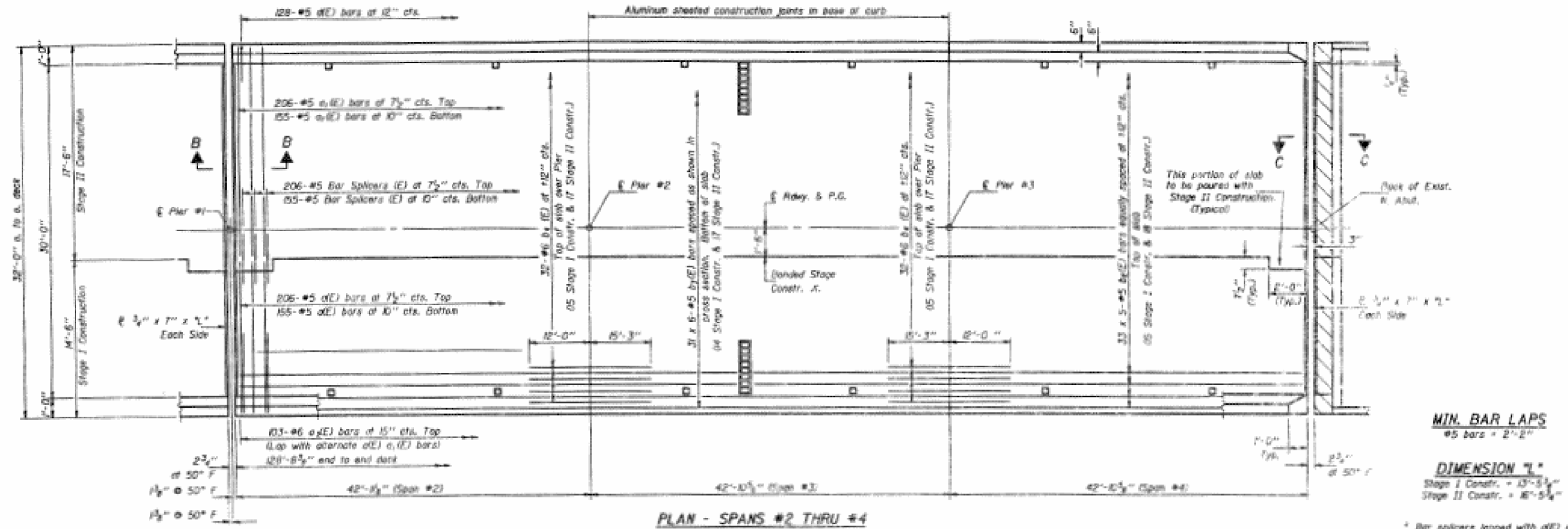
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

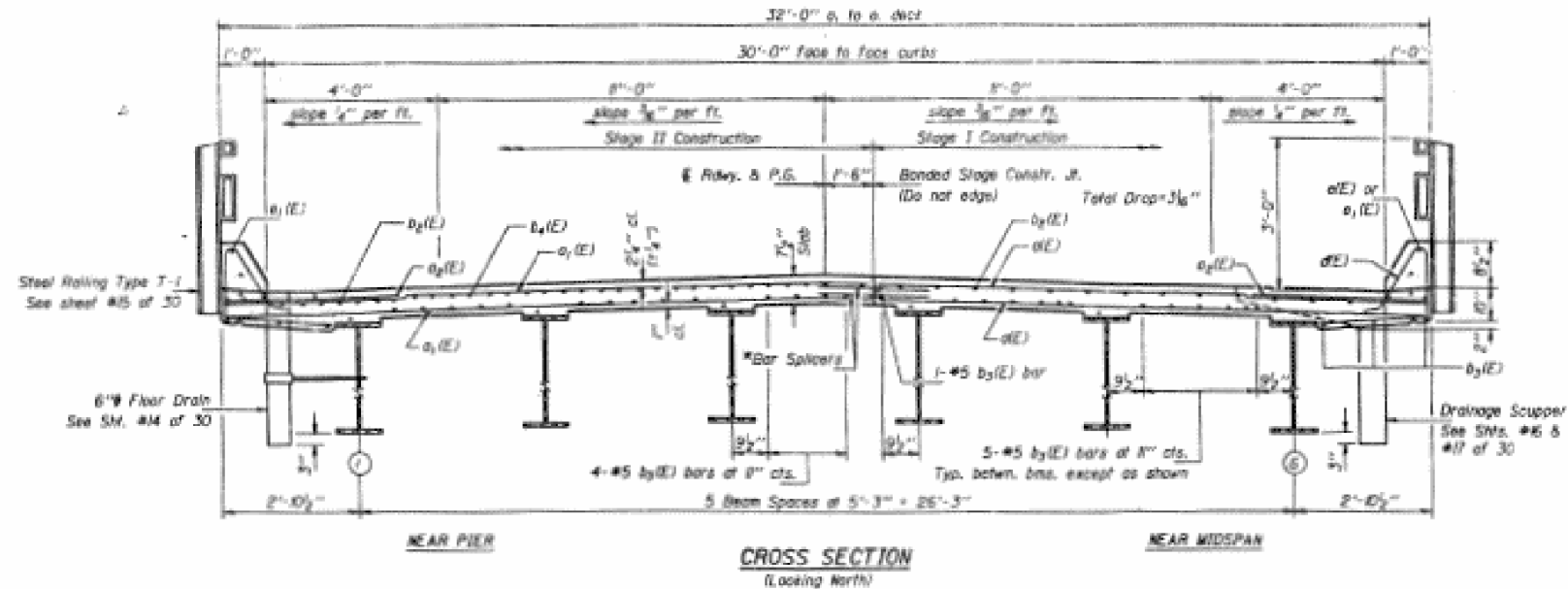
PLAN & CROSS SECTION

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2021		58	12
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68G02	
• FULTON, HENDERSON, KNOX & TAZEWELL				

SN 029-0022 IL 100 OVER OTTER CREEK



* Bar splicers lapped with (E) and (E) bars shall be tied with double the number of ties normally used.



Notes: See sheet #14 of 30 for superstructure details and call of inlets.
See Sheet #14 of 30 for sections of Abutments and Piers.
Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus 2D x 3-#5 etc. indicates 2D lines of bars with 3 lengths per line.
Hatched area to be poured after superstructure formwork has been removed. Quantity of "Class X Concrete Superstructure" filled with superstructure.
See sheet #1 of 30 for spacing of Floor Drains and Drainage Scuppers.
See sheet #8 of 30 for Bar Splicer details.
See sheet #12 of 30 for plan of Drainage Scupper.

INFORMATION ONLY

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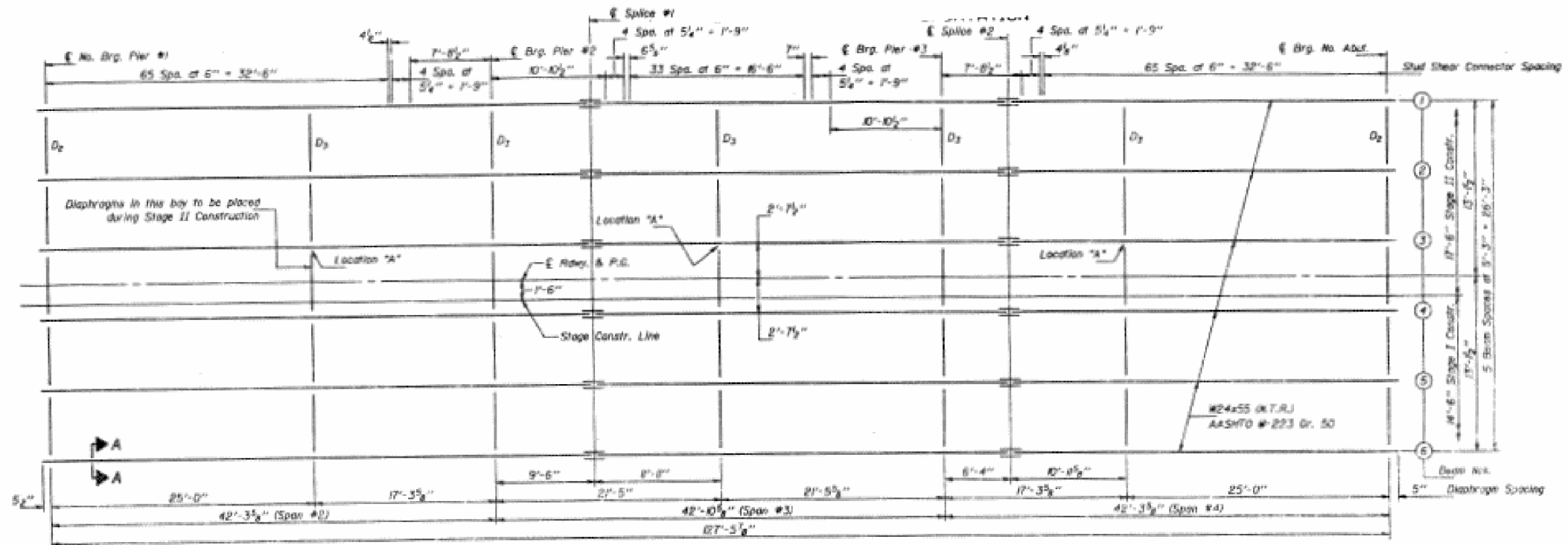
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN & CROSS SECTION

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR D4	BRIDGE PAINTING 2021		58	13
CONTRACT NO. 68G02			ILLINOIS FED. AID PROJECT	
• FULTON, HENDERSON, KNOX & TAZEWELL				

SN 029-0022 IL 100 OVER OTTER CREEK



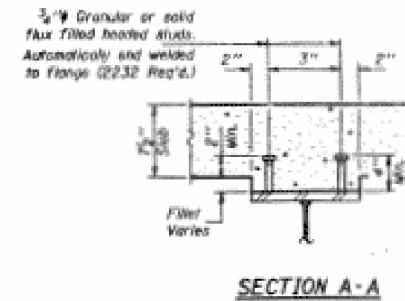
INTERIOR BEAM MOMENT TABLE

		At 1/4 Sp. #1 or #6 Sp. #1	At 0.5 Span #2	At Pier #2 & Pier #3
I_s	(in ⁴)	1,350	1,350	1,350
I_c	(in ⁴)	4,779	4,779	---
S_s	(in ³)	84	84	84
S_c	(in ³)	468.8	468.8	---
U	(K/ft)	0.58	0.58	0.762
W_e	(K)	82.5	26.2	26.5
W_e	(K/ft)	0.82	0.82	---
$W_e P$	(K)	28.3	7.4	---
W_e	(K)	85.5	47.4	83.6
M (Imp)	(K)	28.7	63.2	35.9
$S_y(W_e + U)$	(K)	442.5	350.0	699.2
M_e	(K)	220.6	55.5	427.3
$F_e P$ (non-compact)	(K)	8.68	2.97	13.63
$F_e P$ (compact)	(K)	1.77	1.05	---
$F_e P$ (N-D)	(K)	26.71	21.8	20.97
F_e (Overload)	(K)	37.8	25.21	34.60
F_e (Total)	(K)	46.5	32.77	44.58
V	(K)	36.1	22.0	---

I_s and S_s are the moment of inertia and section modulus of the steel section used in computing F_e (Total & Overload).
 I_c and S_c are the moment of inertia and section modulus of the composite section used in computing F_e (Total & Overload).
 V_R is the maximum Live Load + Impact shear range in span.
 W_e (Applied Moment) = $L_1 W_e + W_e P + \frac{1}{2} W_e + D$
 F_e (Overload) is the sum of the stresses due to $W_e + W_e P + \frac{1}{2} W_e + D$.
 F_e (Total) (non-compact section) is the sum of the stresses due to $L_1 W_e + W_e P + \frac{1}{2} W_e + D$.
 ** Service load values are given.

INTERIOR BEAM REACTION TABLE

		At N. Abut. & E. Brg. Pier #1	At E. Pier #2 & Pier #3
R_e	(K)	33.7	35.5
R_c	(K)	25.9	30.0
$Imp.$	(K)	7.8	9.3
R (Total)	(K)	46.8	75.8



INFORMATION ONLY

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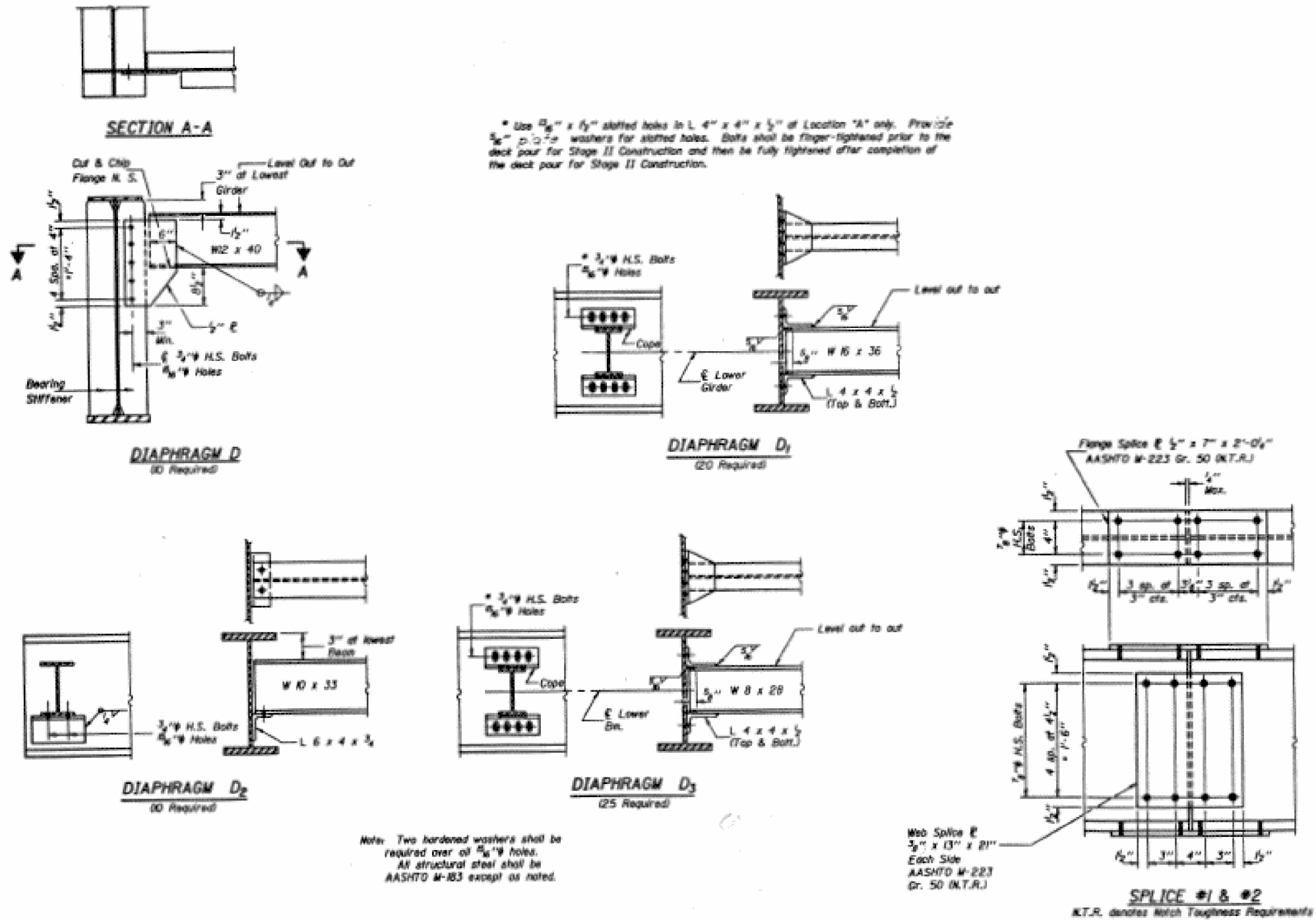
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FRAMING PLAN

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR D4 BRIDGE PAINTING 2021		*	58	14
CONTRACT NO.			68G02	
ILLINOIS FED. AID PROJECT				
* FULTON, HENDERSON, KNOX & TAZEWELL				

SN 029-0022 IL 100 OVER OTTER CREEK



INFORMATION ONLY

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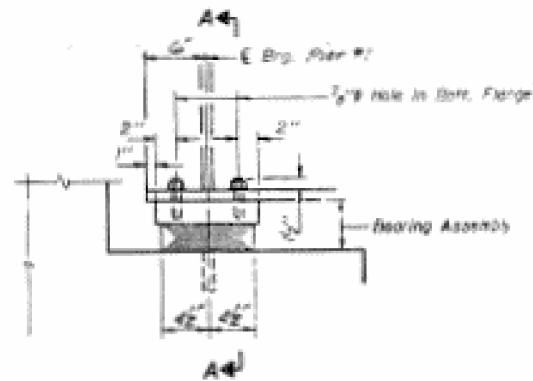
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL DETAILS

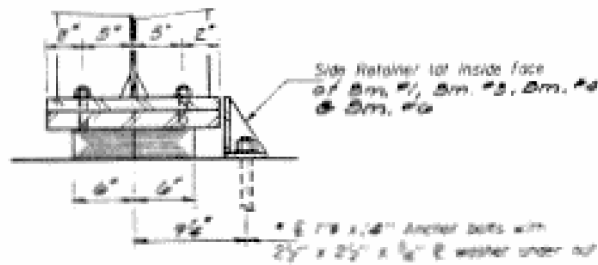
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR D4	BRIDGE PAINTING 2021		58	15
			CONTRACT NO. 68G02	

ILLINOIS FED. AID PROJECT
• FULTON, HENDERSON, KNOX & TAZEWELL

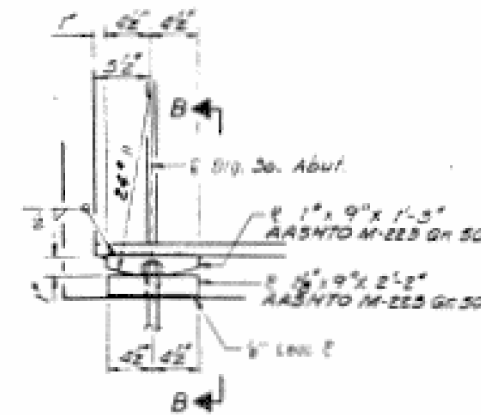
SN 029-0022 IL 100 OVER OTTER CREEK



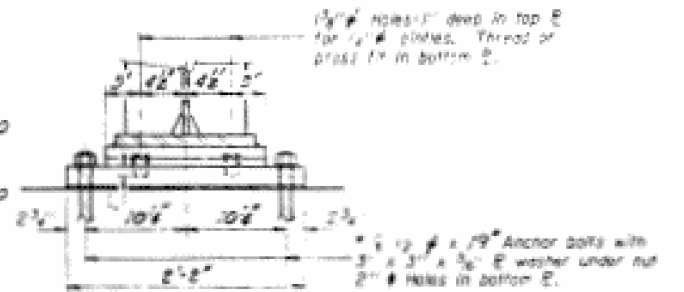
ELEVATION AT PIER #1
SPAN #1
(So. Brg.) TYPE I ELASTOMERIC EXP. BRG.



SECTION A-A



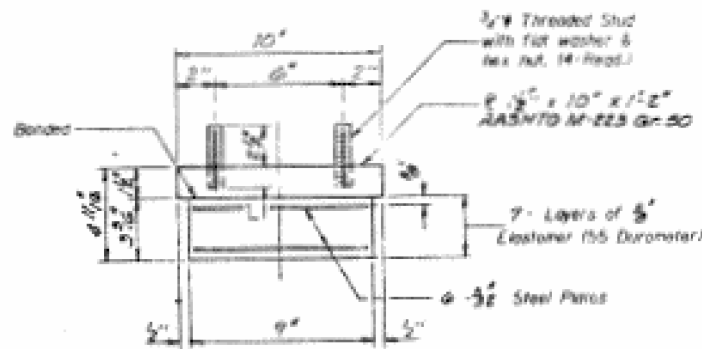
ELEVATION AT SO. ABUT.



SECTION B-B

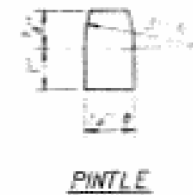
* Notes: Anchor bolts of fixed bearings may be bolt into the masonry. See sheet 024 of 30 for Anchor Bolt installation.

FIXED BEARING

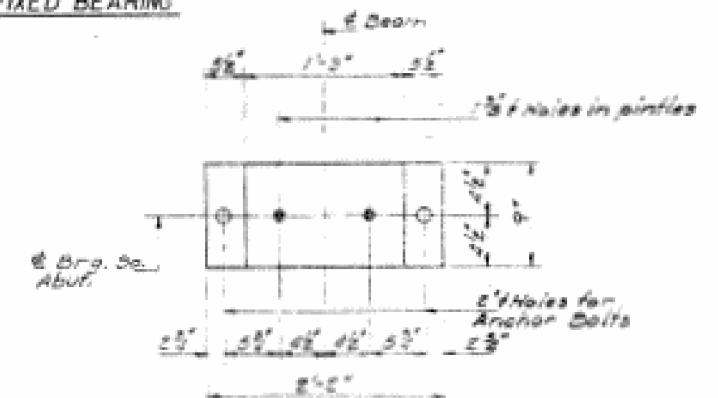


BEARING ASSEMBLY

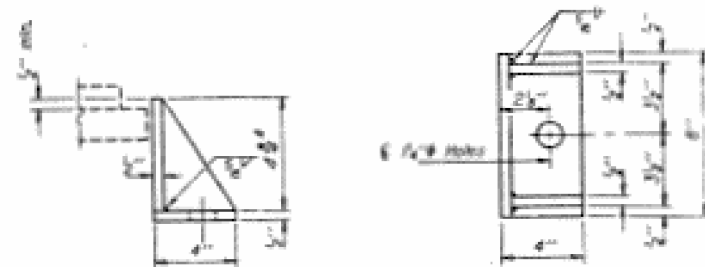
Note: Shim plates shall not be placed under Bearing Assembly.



PINTLE



PLAN BOTTOM PLATE



(if Required)
SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

INFORMATION ONLY

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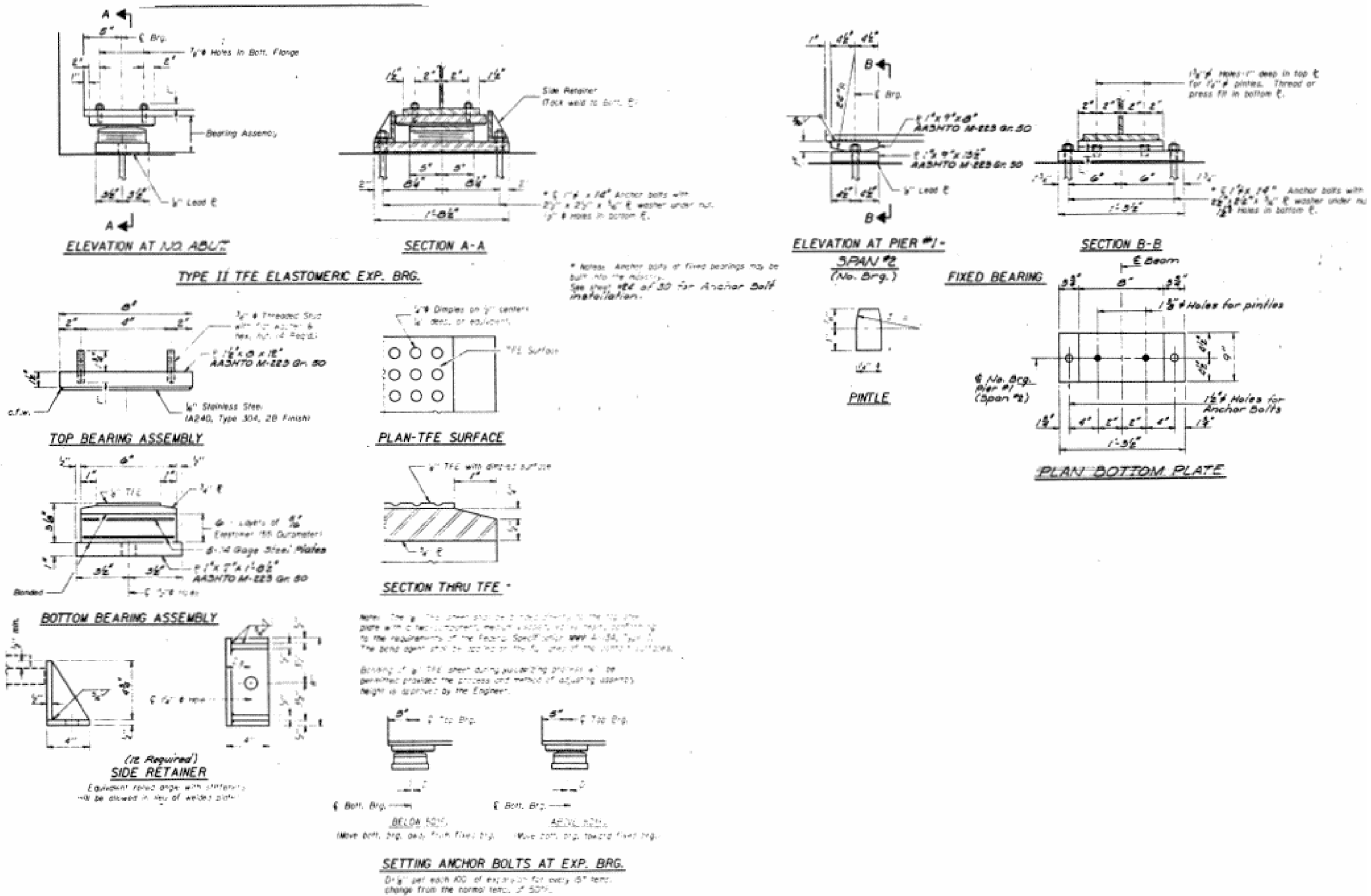
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STRUCTURAL STEEL DETAILS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2021		58	16
CONTRACT NO. 68G02				

ILLINOIS FED. AID PROJECT
• FULTON, HENDERSON, KNOX & TAZEWELL

SN 029-0022 IL 100 OVER OTTER CREEK



INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS

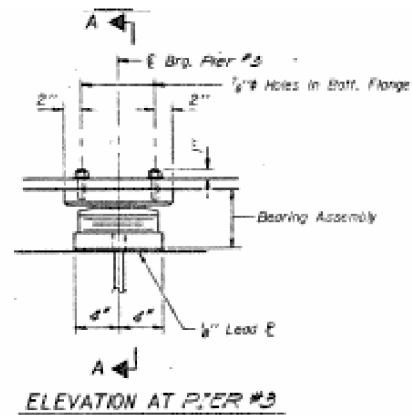
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	DATE -	REVISED -

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2021	*	58	17
CONTRACT NO. 68G02				

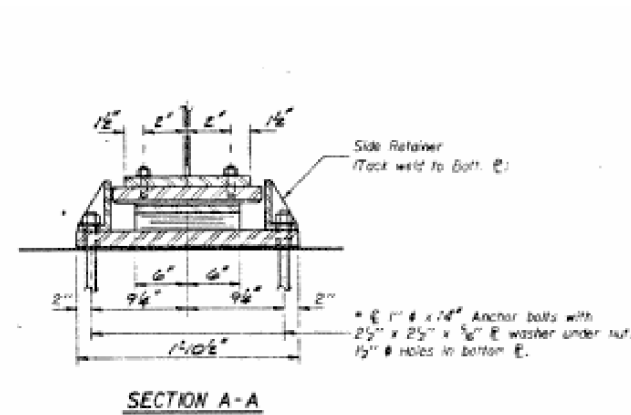
ILLINOIS FED. AID PROJECT
* FULTON, HENDERSON, KNOX & TAZEWELL

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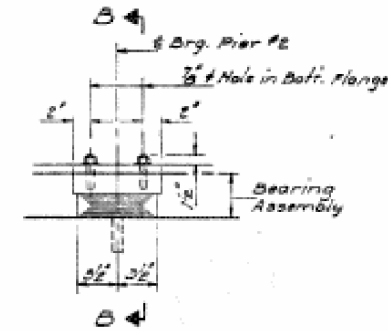
SN 029-0022 IL 100 OVER OTTER CREEK



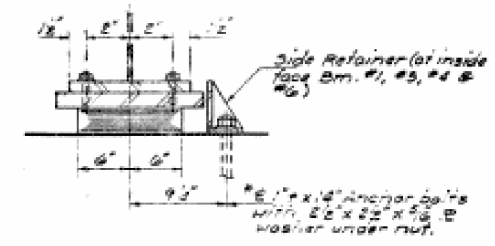
ELEVATION AT PIER #3



SECTION A-A



ELEVATION AT PIER #2

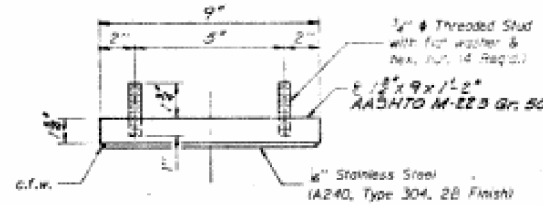


SECTION B-B

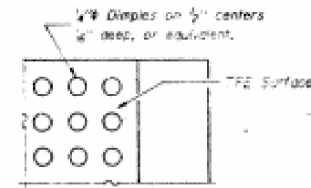
TYPE II TFE ELASTOMERIC EXP. BRG.

TYPE I ELASTOMERIC EXP. BRG.

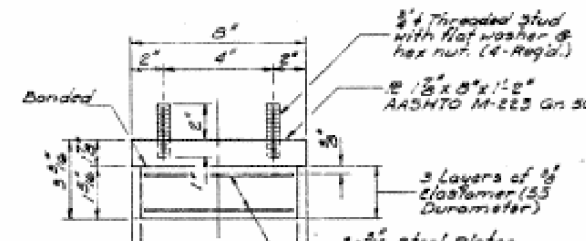
* Notes: Anchor bolts of fixed bearings may be built into the roadway. See sheet #24 of 30 for Anchor Bolt installation.



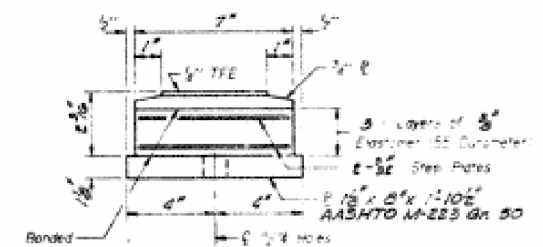
TOP BEARING ASSEMBLY



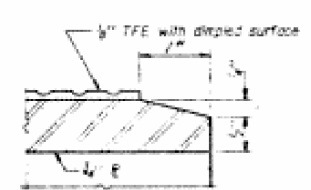
PLAN-TFE SURFACE



BEARING ASSEMBLY



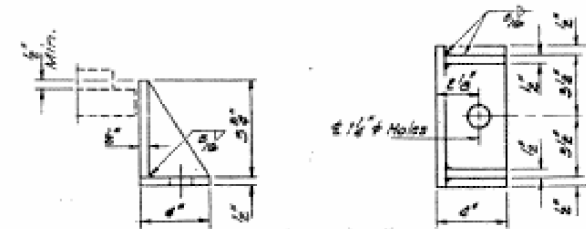
BOTTOM BEARING ASSEMBLY



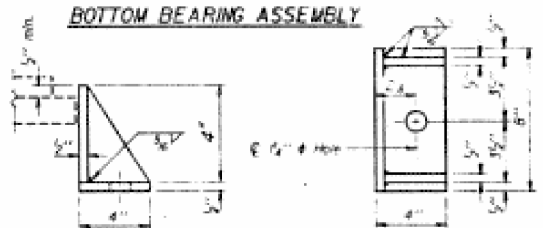
SECTION THRU TFE

Note: The 1/2" TFE sheet shall be bonded directly to the top steel plate with a two-component, reaction viscosity epoxy resin, conforming to the requirements of the Federal Specification WW-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

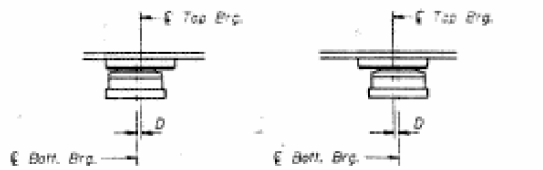
Bonding of 1/2" TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.



(if Required)
SIDE RETAINER-PIER #2
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



(if Required)
SIDE RETAINER-PIER #3
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



SETTING ANCHOR BOLTS AT EXP. BRG.

0.1" per each 100° of expansion for every 15° temp. change from the normal temp. of 50°F.

INFORMATION ONLY

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BEARING DETAILS

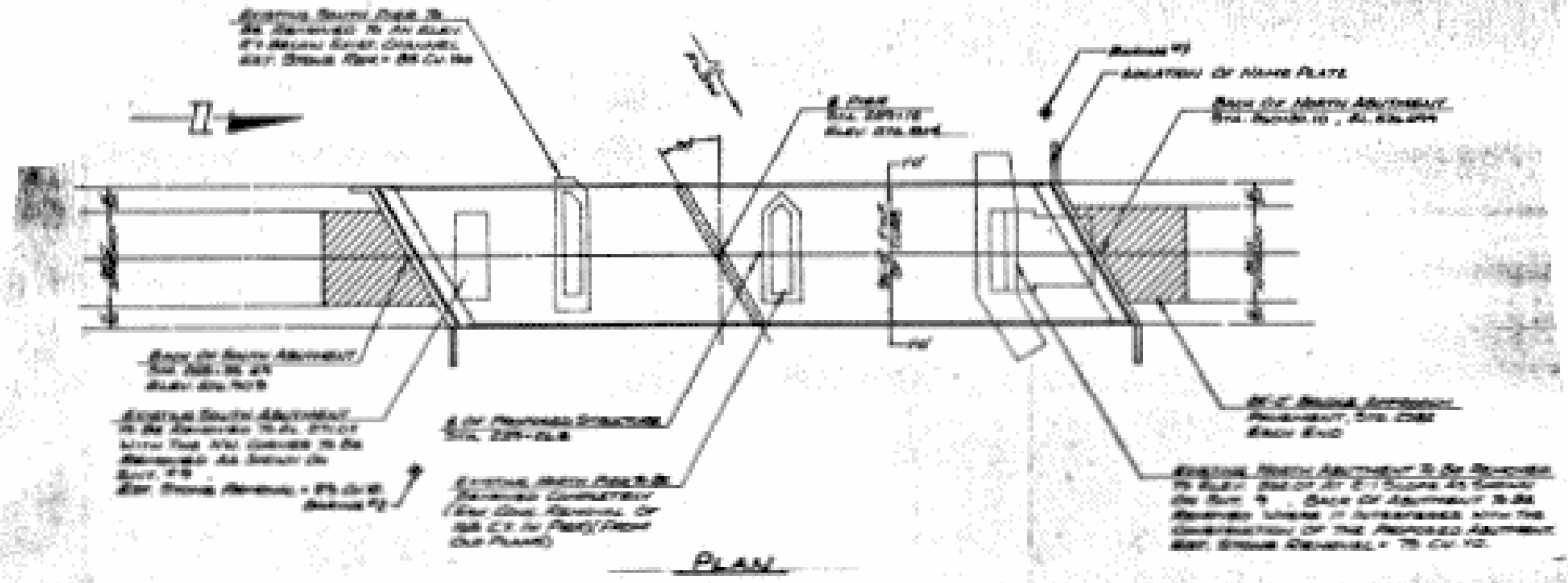
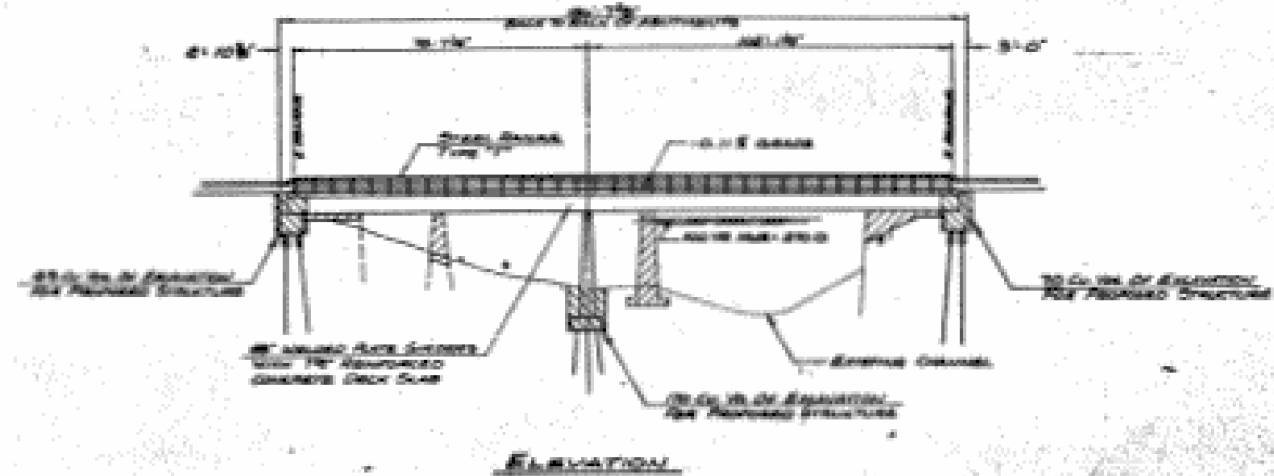
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2021		58	18
			CONTRACT NO. 68G02	

ILLINOIS FED. AID PROJECT
• FULTON, HENDERSON, KNOX & TAZEWELL

SN 029-0053

IL 41 OVER CEDAR CREEK

Note: The Elevation Structure Consists of a
 Reinforced Concrete Deck and
 Supporting Structure. It Shall be
 Built in Accordance with the
 Standard Specifications of the
 Illinois Department of Transportation /
 State of Illinois /
 for the Construction of
 Reinforced Concrete.



DESIGN STRESSES

F.A.
 R.T.E.
 SECTION
 COUNTY
 TOTAL SHEETS
 SHEET NO.
 VAR D4 BRIDGE PAINTING 2021
 * 58 19
 CONTRACT NO. 68G02
 ILLINOIS FED. AID PROJECT
 * FULTON, HENDERSON, KNOX & TAZEWELL

INFORMATION ONLY

Paint color: Blue Munsell No. 10B 3/6

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

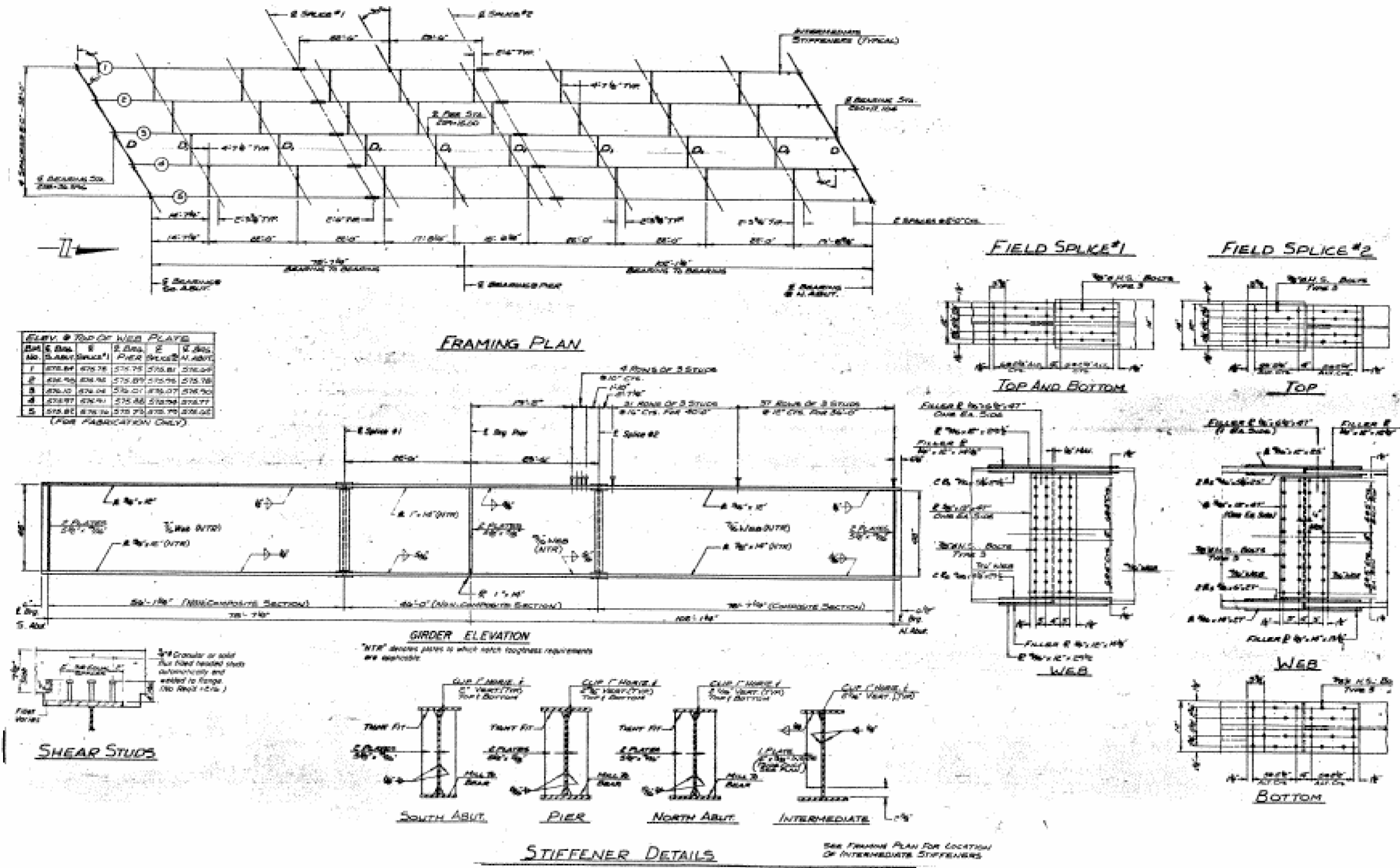
PLAN & ELEVATION VIEW

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	DATE -	REVISED -

F.A. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR D4 BRIDGE PAINTING 2021	*	*	58	19
				CONTRACT NO. 68G02

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SN 029-0053 IL 41 OVER CEDAR CREEK



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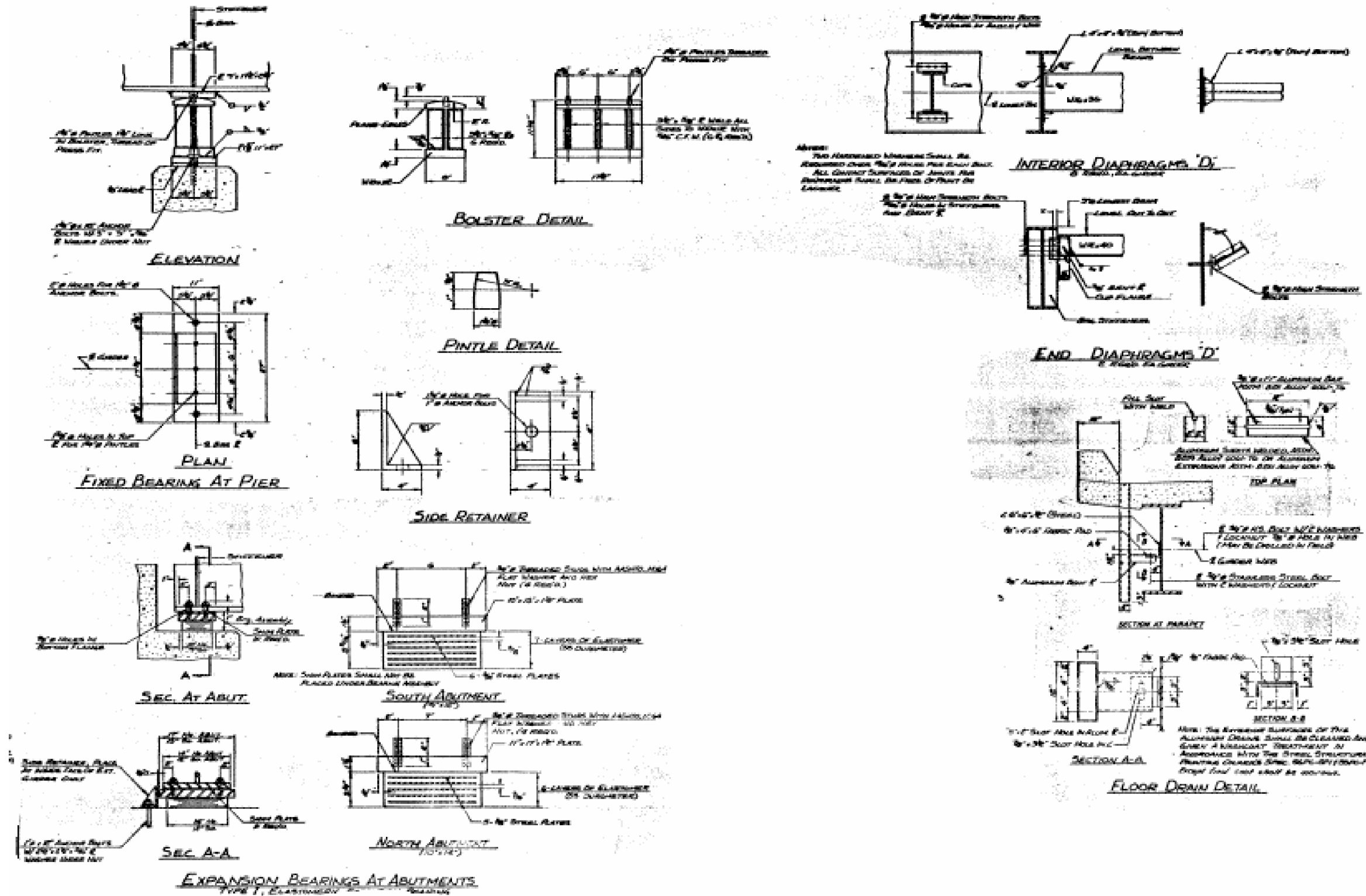
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRAMING PLAN

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2021		58	20
CONTRACT NO. 68G02				

ILLINOIS FED. AID PROJECT
• FULTON, HENDERSON, KNOX & TAZEWELL

SN 029-0053 IL 41 OVER CEDAR CREEK



INFORMATION ONLY

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL DETAILS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 6802				

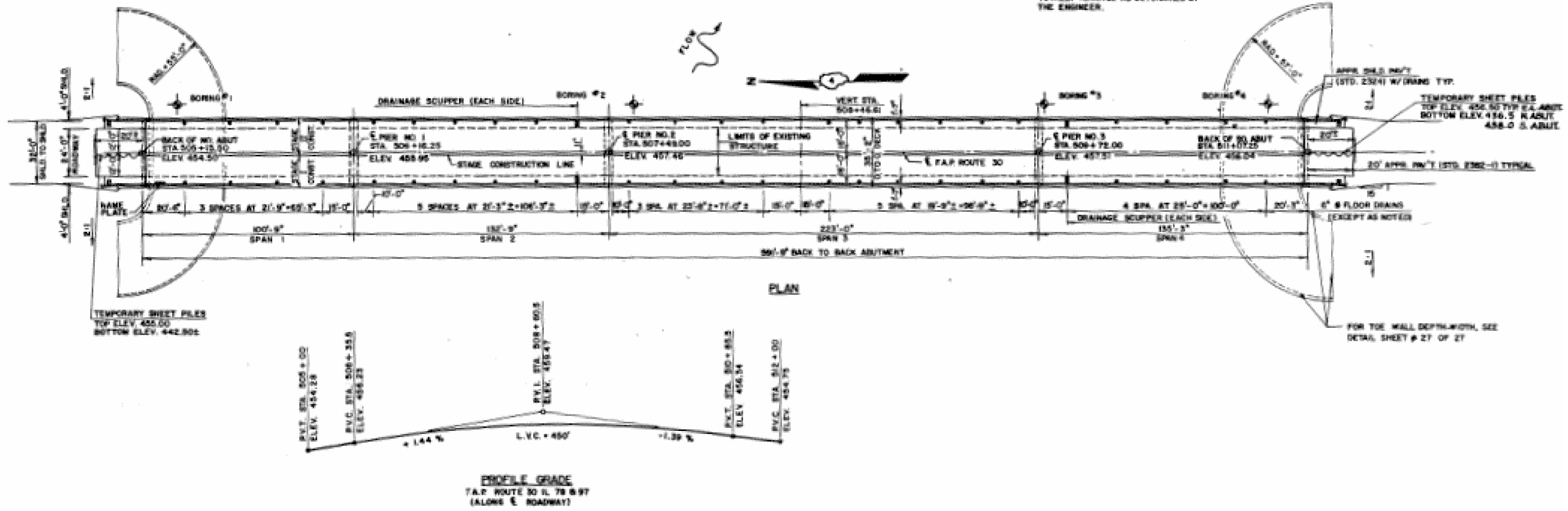
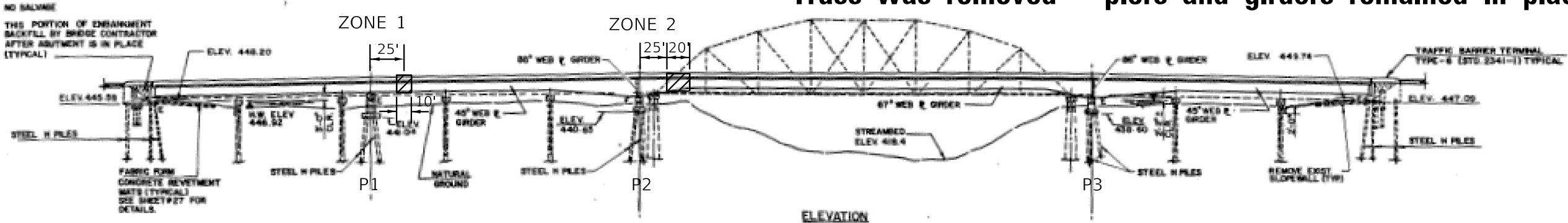
ILLINOIS FED. AID PROJECT
• FULTON, HENDERSON, KNOX & TAZEWELL

SN 029-0056

IL ROUTES 78 & 97 OVER SPOON RIVER

□ Approximate area to be painted - see General Notes sheet
Truss was removed – piers and girders remained in place.

EXISTING STRUCTURE: STRUCTURE NO. 029-0020, STA. 508+85.5 BUILT IN 1925.
 SUPERSTRUCTURE = (1) THROUGH TRUSS AT 507'-0" & (2) WIDE FLANGE APPROACH SPANS AT 507'-0" (2) EACH.
 SUBSTRUCTURE = (1) SOLID REINFORCED CONCRETE PIERS, (2) PILE BENTS, AND (3) END PILE BENTS.



Paint color: 1. Interstate Green Munsell No. 7.5G 4/8

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	DRAWN -	REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

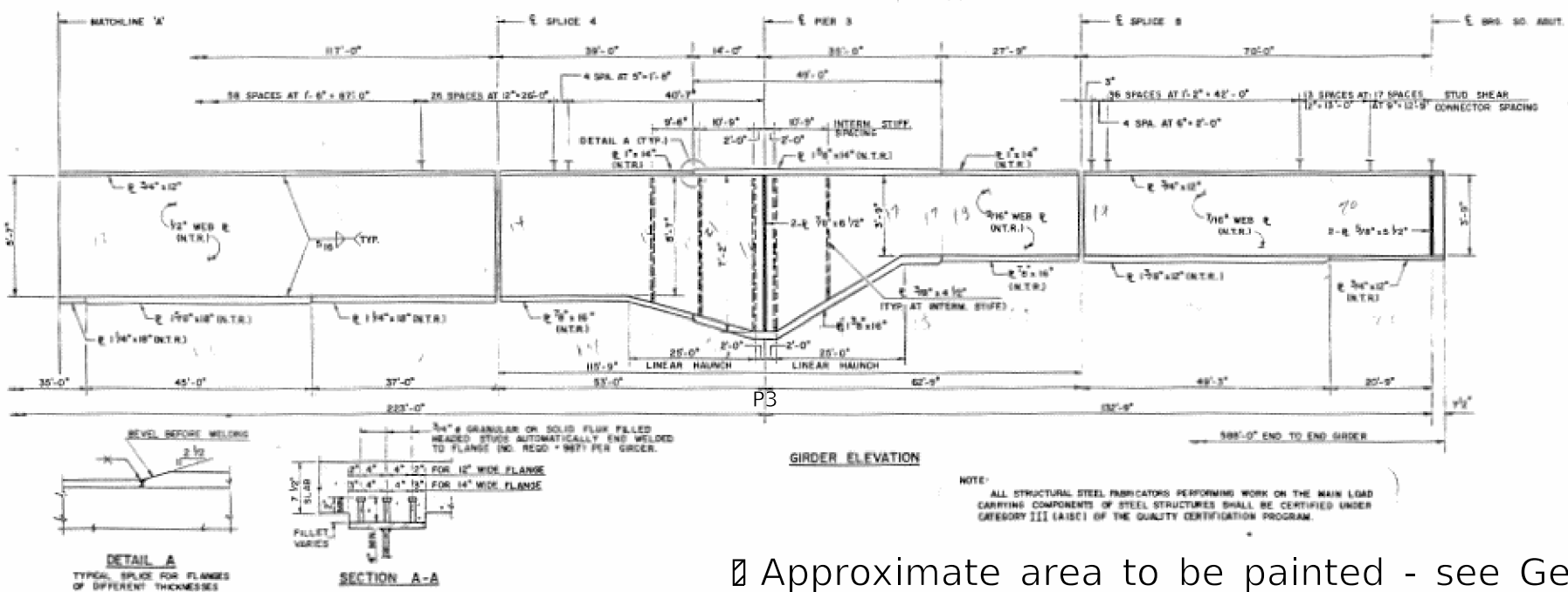
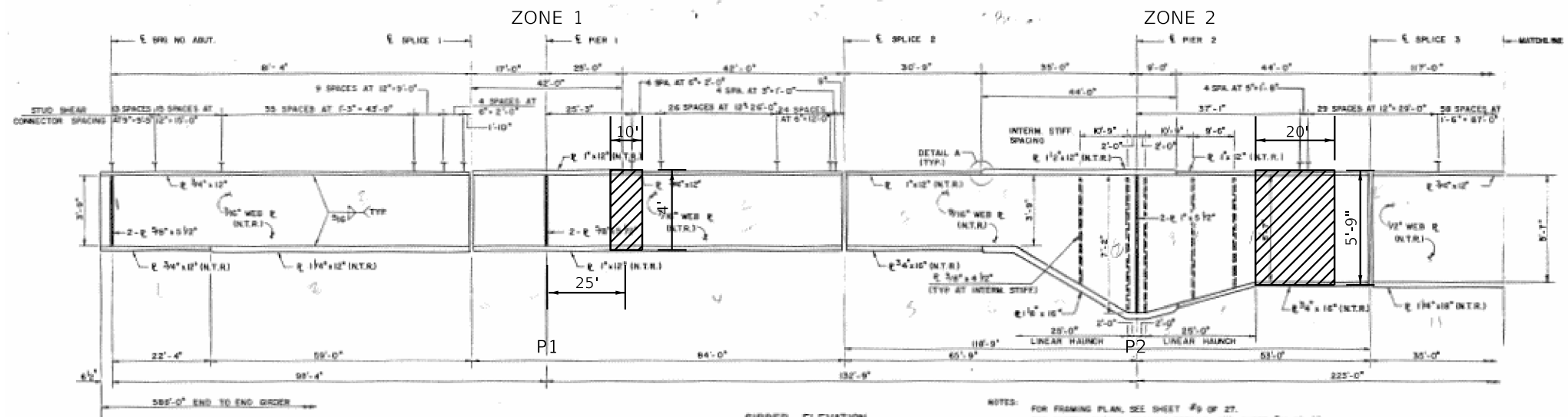
PLAN & ELEVATION VIEW

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR D4 BRIDGE PAINTING 2021		*	58	22
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68G02	
* FULTON, HENDERSON, KNOX & TAZEWELL				

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SN 029-0056

IL ROUTES 78 & 97 OVER SPOON RIVER



⊞ Approximate area to be painted - see General Notes sheet

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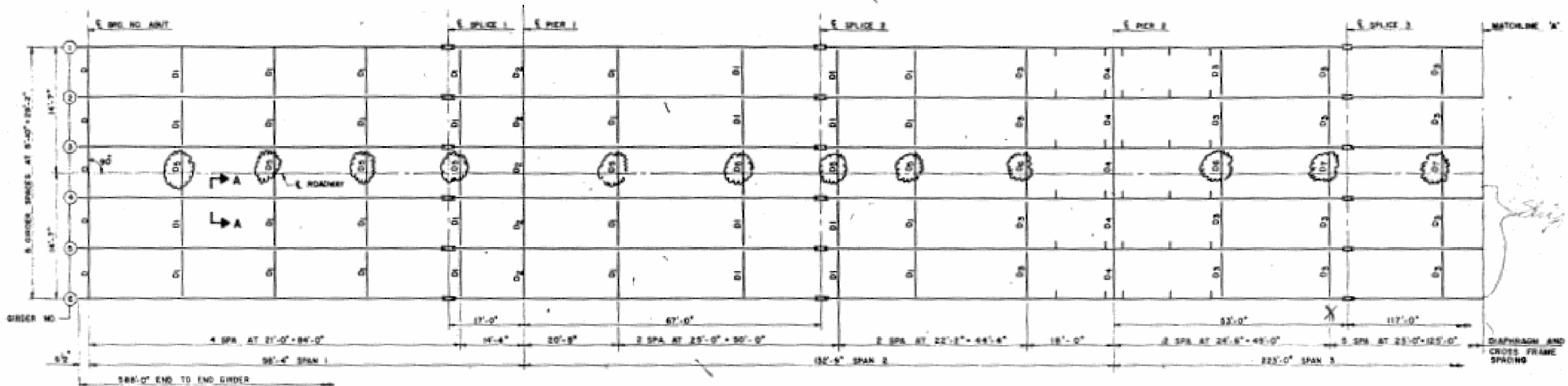
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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRAMING PLAN

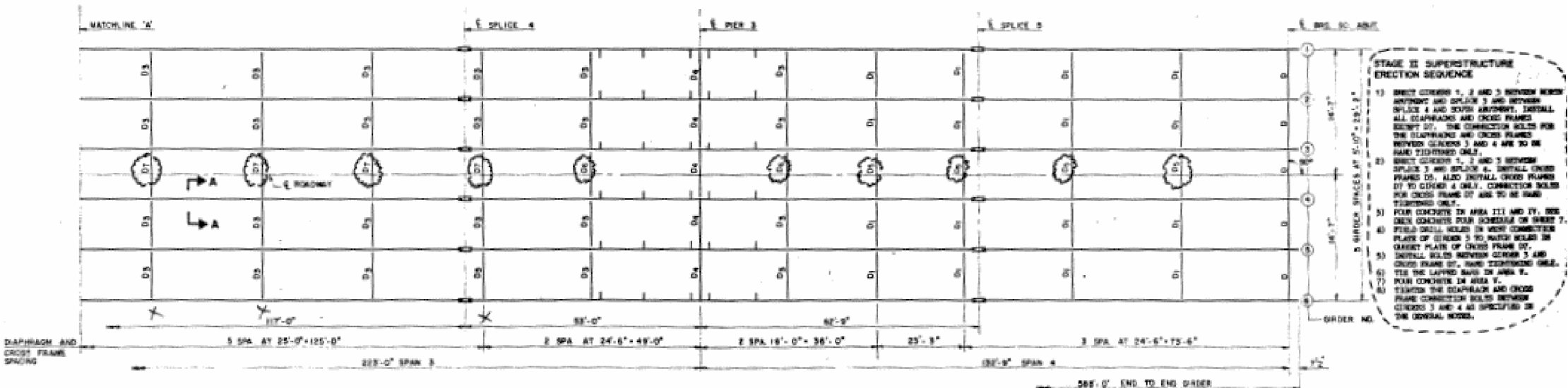
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VAR	D4 BRIDGE PAINTING 2021	*	58	23
CONTRACT NO.			68G02	

SN 029-0056 IL ROUTES 78 & 97 OVER SPOON RIVER



NOTES: DIAPHRAGMS AND CROSS FRAMES BETWEEN GIRDER (D) & (D) TO BE PLACED DURING STAGE II CONSTRUCTION.

NOTE:
FOR SECTION A-A & GIRDER ELEVATION, SEE SHEET # 10 OF 27.
FOR MISCELLANEOUS FRAMING DETAILS, SEE SHEET # 11 OF 27.
FOR FIELD SPLICE DETAILS, SEE SHEET # 12 OF 27.
FOR FRAMING DETAILS, SEE SHEET # 13 OF 27.



STAGE II SUPERSTRUCTURE ERECTION SEQUENCE

- 1) BRIDGE GIRDERS 1, 2 AND 3 BETWEEN NORTH ANCHORAGE AND SPLICE 3 AND BETWEEN SPLICE 4 AND SOUTH ANCHORAGE. INSTALL ALL DIAPHRAGMS AND CROSS FRAMES BETWEEN GIRDERS 1, 2 AND 3. THE CONNECTION BOLTS FOR THE DIAPHRAGMS AND CROSS FRAMES BETWEEN GIRDERS 1 AND 2 ARE TO BE HAND TIGHTENED ONLY.
- 2) BRIDGE GIRDERS 3, 4 AND 5 BETWEEN SPLICE 3 AND SPLICE 4. INSTALL CROSS FRAMES C3, ALSO INSTALL CROSS FRAMES D3 TO GIRDERS 4 ONLY. CONNECTION BOLTS FOR CROSS FRAMES D3 ARE TO BE HAND TIGHTENED ONLY.
- 3) POUR CONCRETE IN AREA III AND IV. USE OPEN CONCRETE POUR SCHEDULE ON SHEET 7.
- 4) FIELD DRILL HOLES IN WEST CONNECTION PLATE OF GIRDER 3 TO MATCH WELDS IN EAST CONNECTION PLATE OF GIRDER 4.
- 5) INSTALL WELDS BETWEEN GIRDERS 3 AND GIRDER 4. HAND TIGHTENING ONLY.
- 6) TIE THE LAPPED BARS IN AREA V.
- 7) POUR CONCRETE IN AREA V.
- 8) TENSION THE DIAPHRAGM AND CROSS FRAME CONNECTION BOLTS BETWEEN GIRDERS 3 AND 4 AS SPECIFIED IN THE GENERAL NOTES.

INFORMATION ONLY

AS REVISED

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

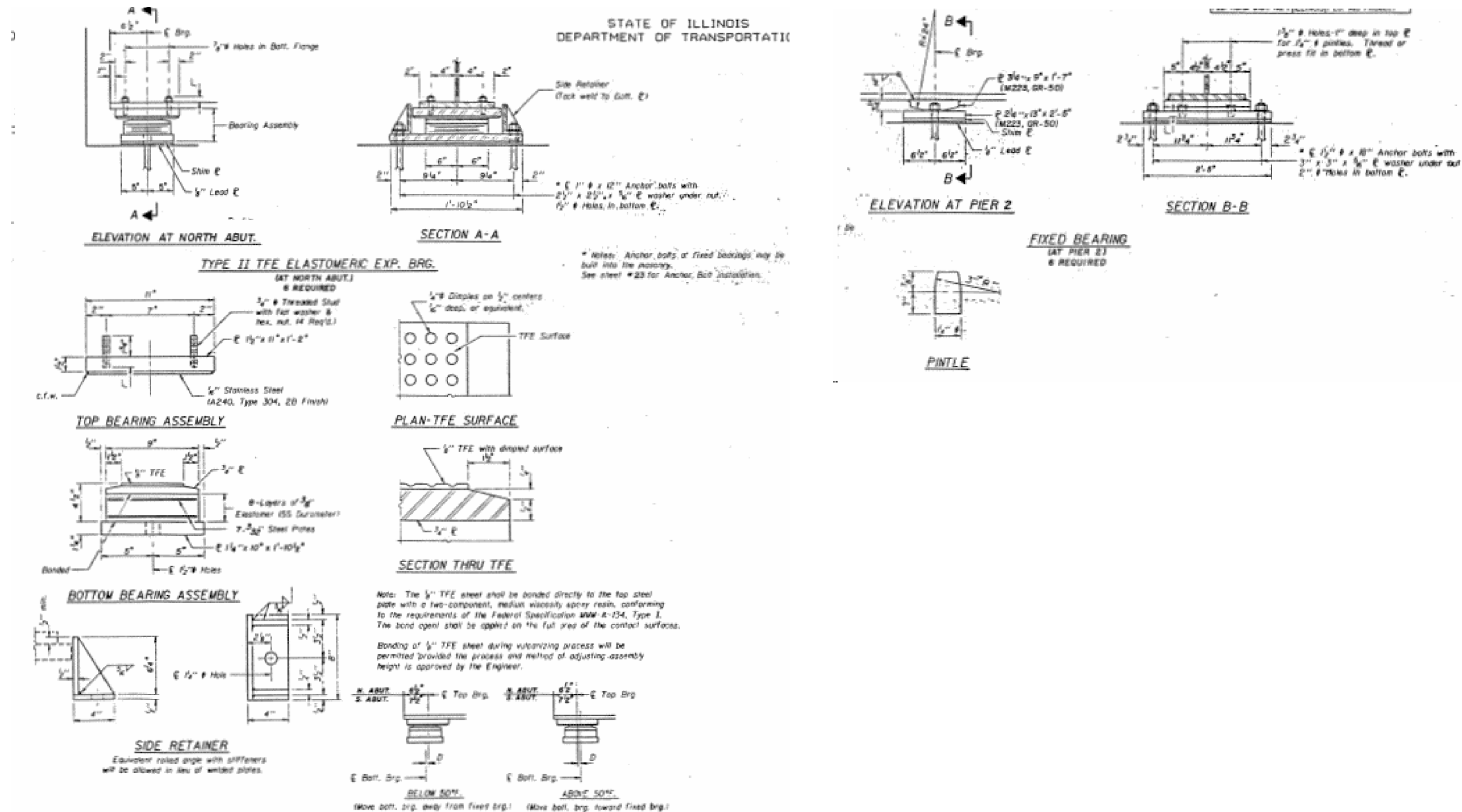
FRAMING PLAN

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2021	*	58	24
			CONTRACT NO. 68G02	

ILLINOIS FED. AID PROJECT
* FULTON, HENDERSON, KNOX & TAZEWELL

SN 029-0056

IL ROUTES 78 & 97 OVER SPOON RIVER



I-2-E2 D-1-R?

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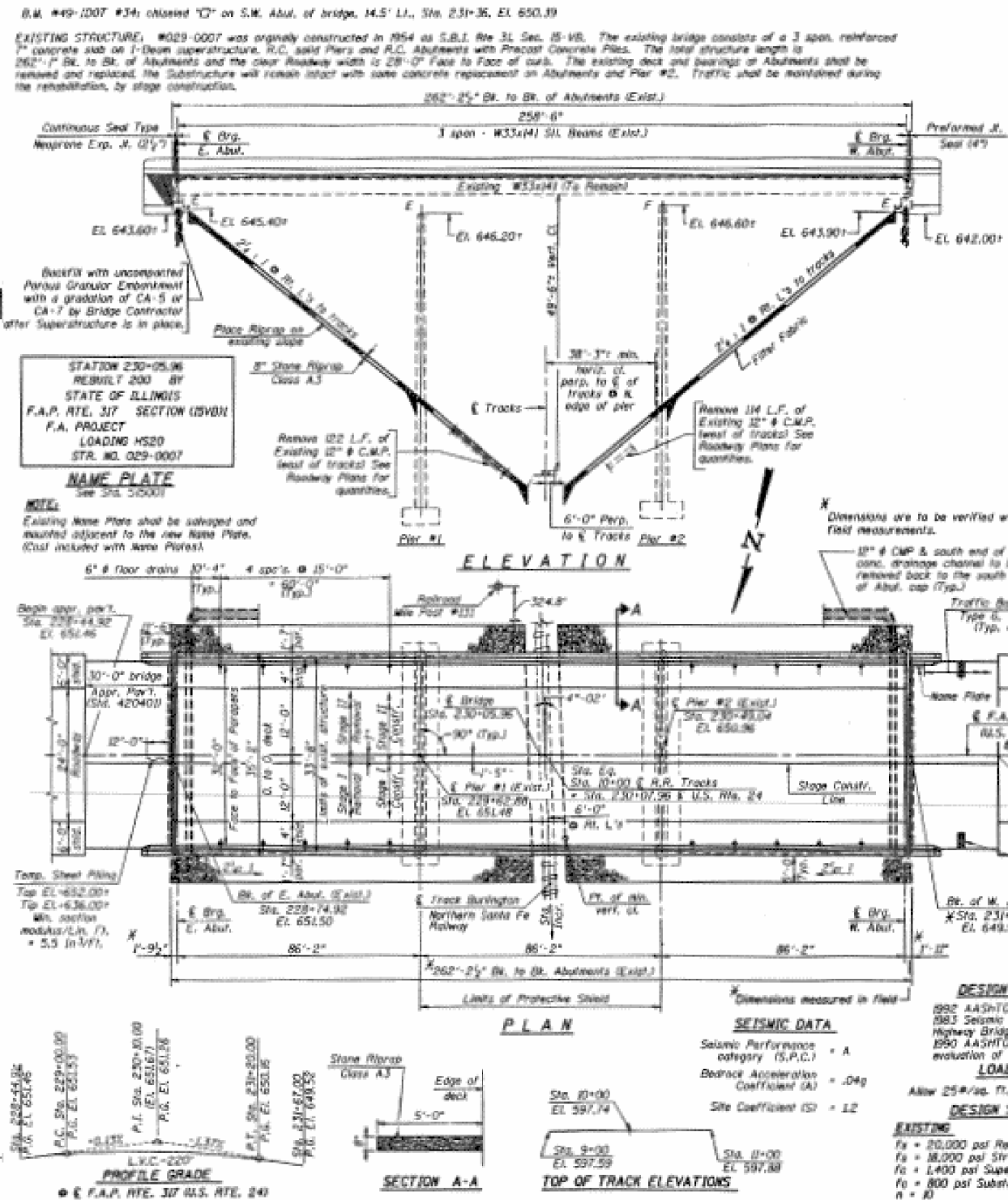
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2021		58	26
CONTRACT NO. 68G02				
ILLINOIS FED. AID PROJECT				
• FULTON, HENDERSON, KNOX & TAZEWELL				

SN 029-0007 US 24 OVER B.N.S.F. RAILROAD



TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPERSTR.	SUBS./R.	TOTAL
Removal of Existing Concrete Deck	Cu.Yd.	1	-	1
Structure Extension	Cu.Yd.	-	84	84
Concrete Superstructure	Cu.Yd.	281.3	-	281.3
Concrete Structures	Cu.Yd.	-	38.4	38.4
Concrete Repair	Cu.Yd.	-	20.4	20.4
Reinforcement Bars, Cross Coated (Prefabricated Joint Seal (4"))	Lb.	64,020	4,900	68,920
Reinforcing Expansion Joint (2'-7")	Pk.	15	-	15
Expansion Joint (2'-7")	Pk.	14	-	14
Expansion Bearing Assembly, Type I	EA	5	-	5
Expansion Bearing Assembly, Type II	EA	8	-	8
Joint and Reseal Existing Bearings	EA	17	-	17
Wear Surface	Sq.Yd.	866	-	866
Bridge Deck Grouting	Sq.Yd.	866	-	866
Various Groutor Equipment	Cu.Yd.	-	49.3	49.3
Floor Drains	Pk.	20	-	20
Protective Coat	Sq.Yd.	866	-	866
Furnishing and Erecting Structural Steel	Lb.	4,480	-	4,480
Steel Shear Connectors	EA	1,480	-	1,480
Bridge Seal Sealer	Sq.Ft.	-	866	866
Filter Fabric, Class A3	Sq.Yd.	-	1,110	1,110
Filter Fabric for use with Abrasives	Sq.Yd.	-	1,110	1,110
Cleaning and Polishing Steel Bridge	L. Sur.	1	-	1
Power Tool Cleaning Residue Containment & Disposal	L. Sur.	1	-	1
Cleaning Residue Containment & Disposal	L. Sur.	-	-	-
Name Plates	EA	-	-	-
Temporary Steel Piling	Sq. Ft.	80	-	80
Protective Shield	Sq. Yd.	136	-	136

INFORMATION ONLY

Paint color: Gray Munsell No. 5B 7/1

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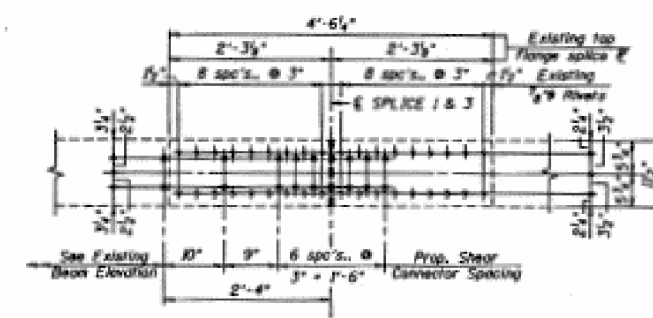
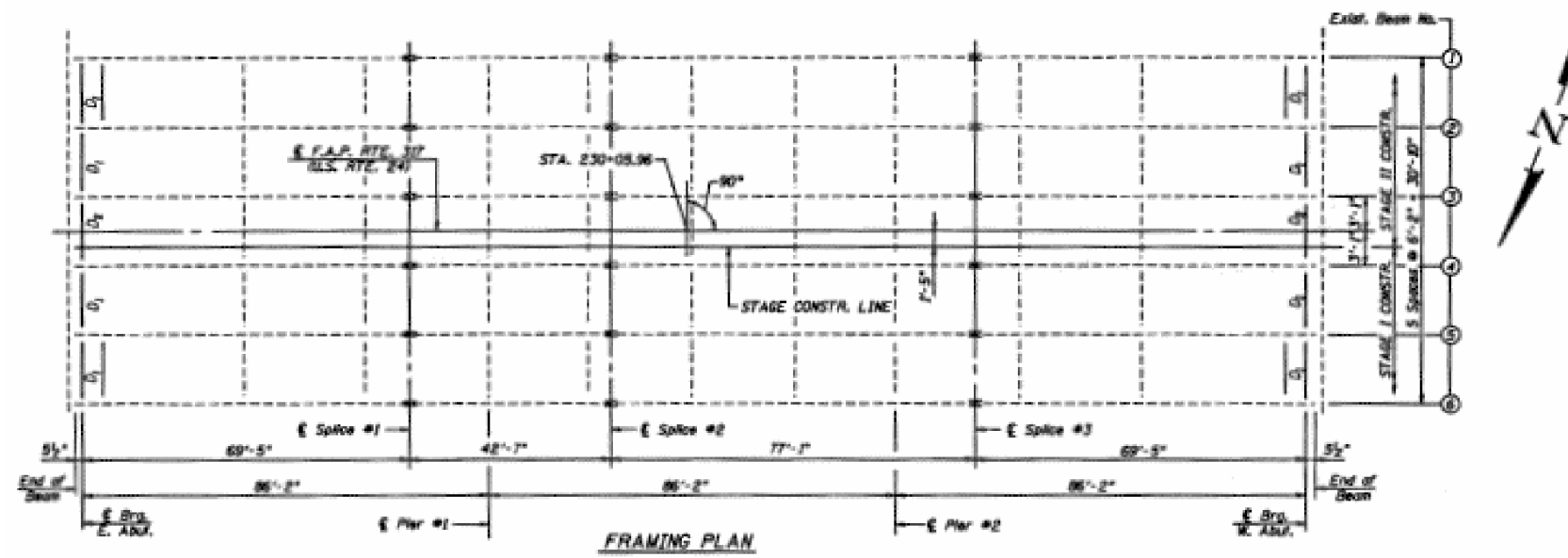
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN & ELEVATION VIEW

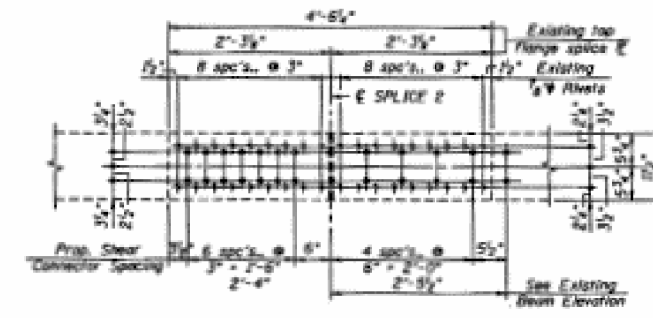
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VAR D4	BRIDGE PAINTING 2021	-	58	28
CONTRACT NO. 68G02				
ILLINOIS FED. AID PROJECT				
- FULTON, HENDERSON, KNOX & TAZEWELL				

SN 029-0007

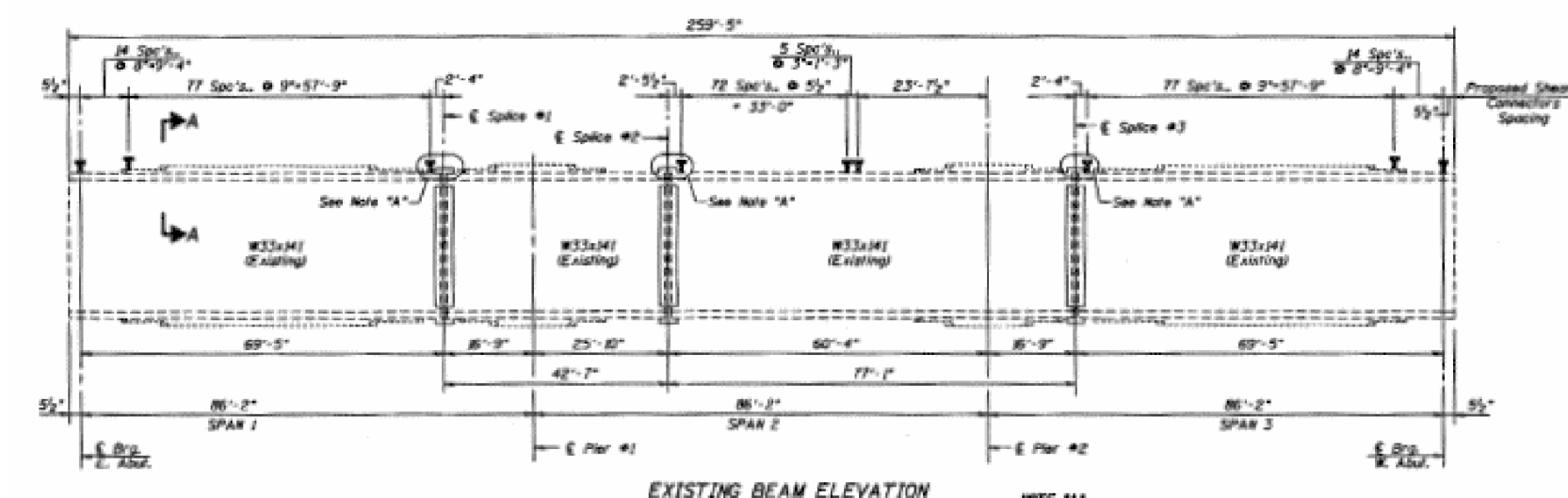
US 24 OVER B.N.S.F. RAILROAD



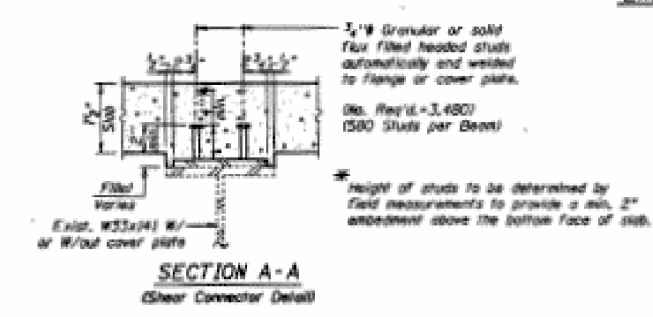
PLAN "A"
Exist. Top Flange Splice Plate #1 Shown
(Splice #3 Opp. Hand)



PLAN "B"
(Exist. Top Flange Splice Plate #2)



NOTE "A"
Place Shear Studs on each Splice Plate as shown on Plan A & Plan B of existing flange splice plate.



INFORMATION ONLY

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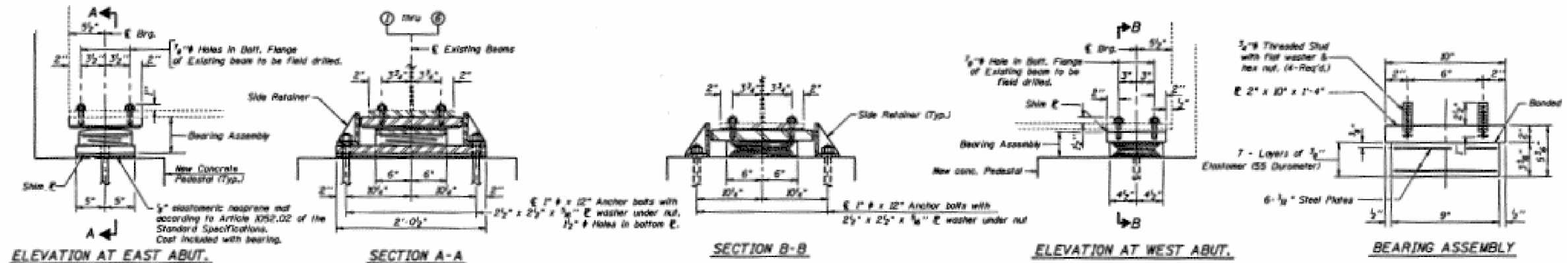
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRAMING PLAN

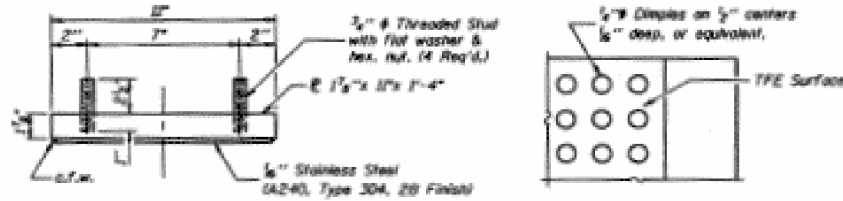
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VAR	D4 BRIDGE PAINTING 2021		58	29
CONTRACT NO. 68G02				
ILLINOIS FED. AID PROJECT				
• FULTON, HENDERSON, KNOX & TAZEWELL				

SN 029-0007 US 24 OVER B.N.S.F. RAILROAD



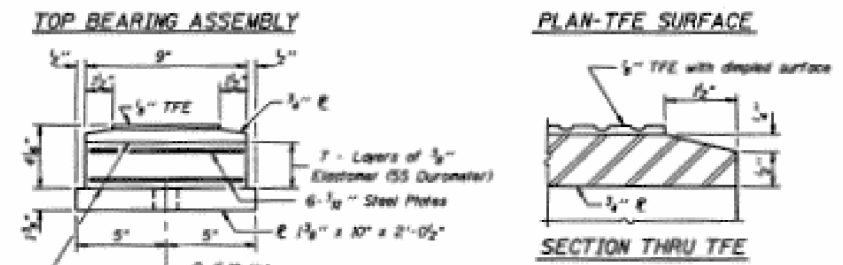
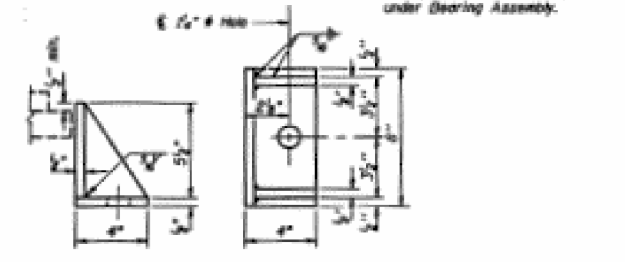
TYPE II TFE ELASTOMERIC EXP. BRG.
(6 Required)

TYPE I ELASTOMERIC EXP. BRG.
(6 Required)

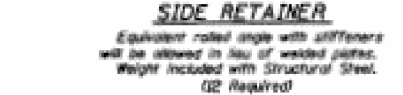


BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	6
Elastomeric Bearing Assembly Type II	Each	6
Jack & Remove Exist. Bearings	Each	12

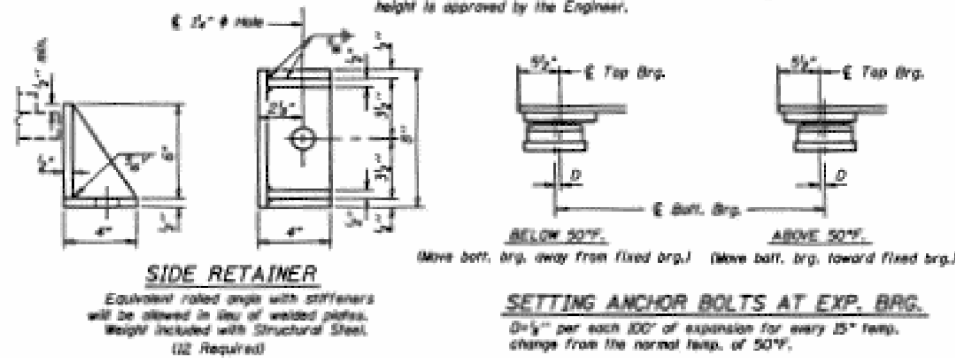


NOTE:
See Sheet S30 For Anchor Bolt Installation.



NOTE: The 1/2" TFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification **MM-A-134, Type I**. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of 1/2" TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.



BEARING REPLACEMENT NOTES:

1. Raise bridge or abutment 1/4" (See note below).
2. Remove existing Rocker Bearing and Plate on bottom flange of abutment.
3. Reconstruct the concrete pedestal to the new seat elevation.
4. Install Elastomeric Bearing on pedestal.
5. Lower bridge.
6. Install 1/2" #8 Threaded Studs to a tight fit. Install washers and nuts.

GENERAL NOTES:

1. The contractor shall supply additional skin plates if required to bring devices to grade.
2. Drilling holes for expansion bearings in flanges of existing beams and in existing substructure shall be included with the cost of Jack and Remove bearings.
3. It shall be the contractor's responsibility to verify all dimensions between the bottom of the beam and the top of the bearing seat of the existing bearings in the field prior to construction or ordering of bearings.

NOTE "E":
Existing plate to be removed using the Air-Arc method and grind smooth all weld material remaining on the bottom flange.

NOTE:
Differential in height between adjacent beams in excess of 1/4" will not be permitted.

BEAM @ REACTION
Without conc. deck-T.O. Beam @ abut's.

The Contractor shall submit for approval by the Engineer, plans for jacking prior to commencing any work at the bearings.

Jacking shall be limited to removing and replacing of exist. expansion bearing of abutments.

All beams of one abutment shall be lifted simultaneously.

Minimum jack capacity shall be 10 ton.

With new bearing in position and used as a template, new holes shall be drilled into the abutment cap for new anchor bolts.

SECTION AT ABUTMENTS
(Showing Existing Bearings)

INFORMATION ONLY

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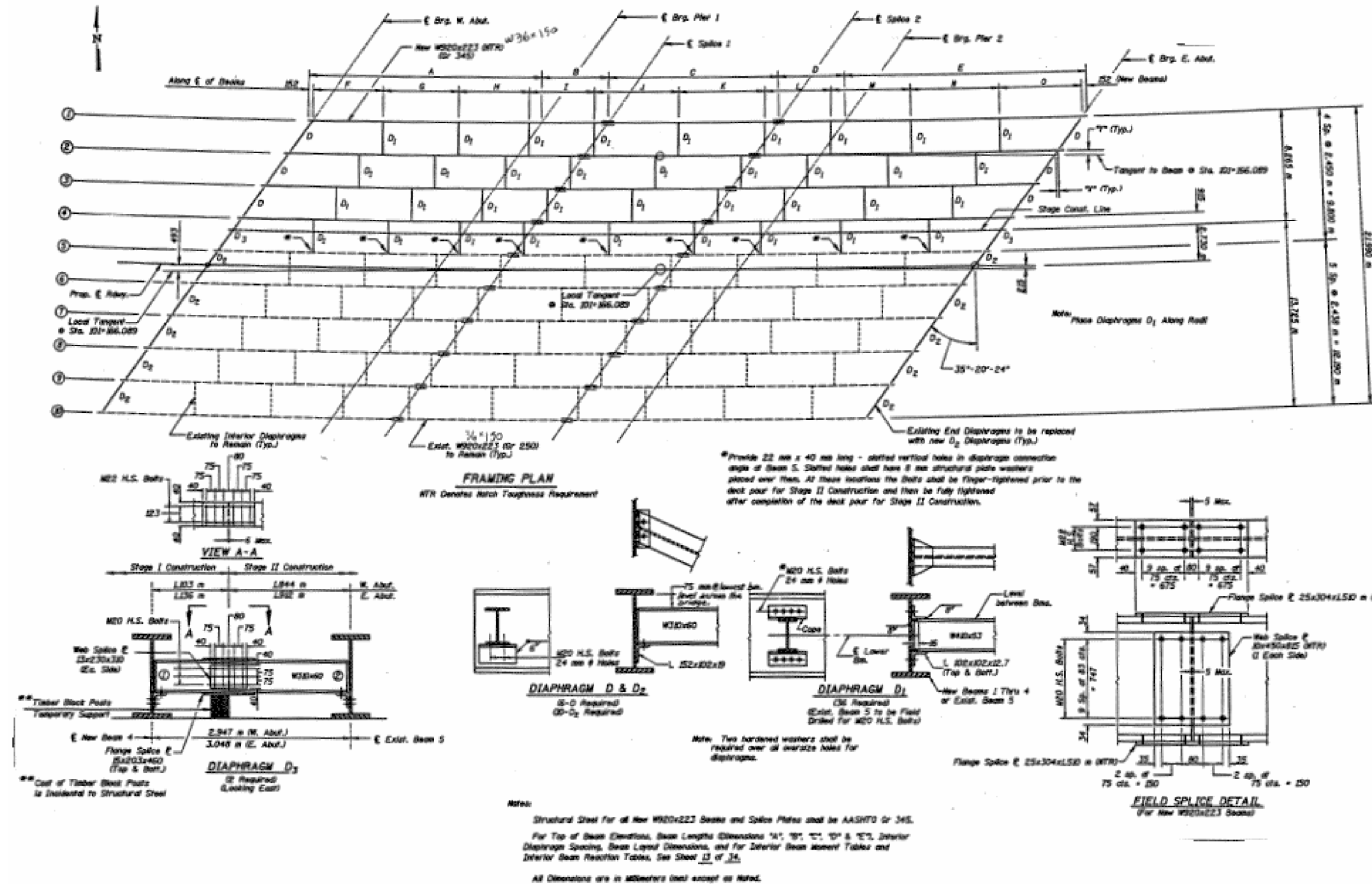
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2021		58	31
CONTRACT NO. 68G02				
ILLINOIS FED. AID PROJECT				
• FULTON, HENDERSON, KNOX & TAZEWELL				

SN 036-0036

US ROUTE 34 OVER B.N.S.F. RAILROAD



INFORMATION ONLY

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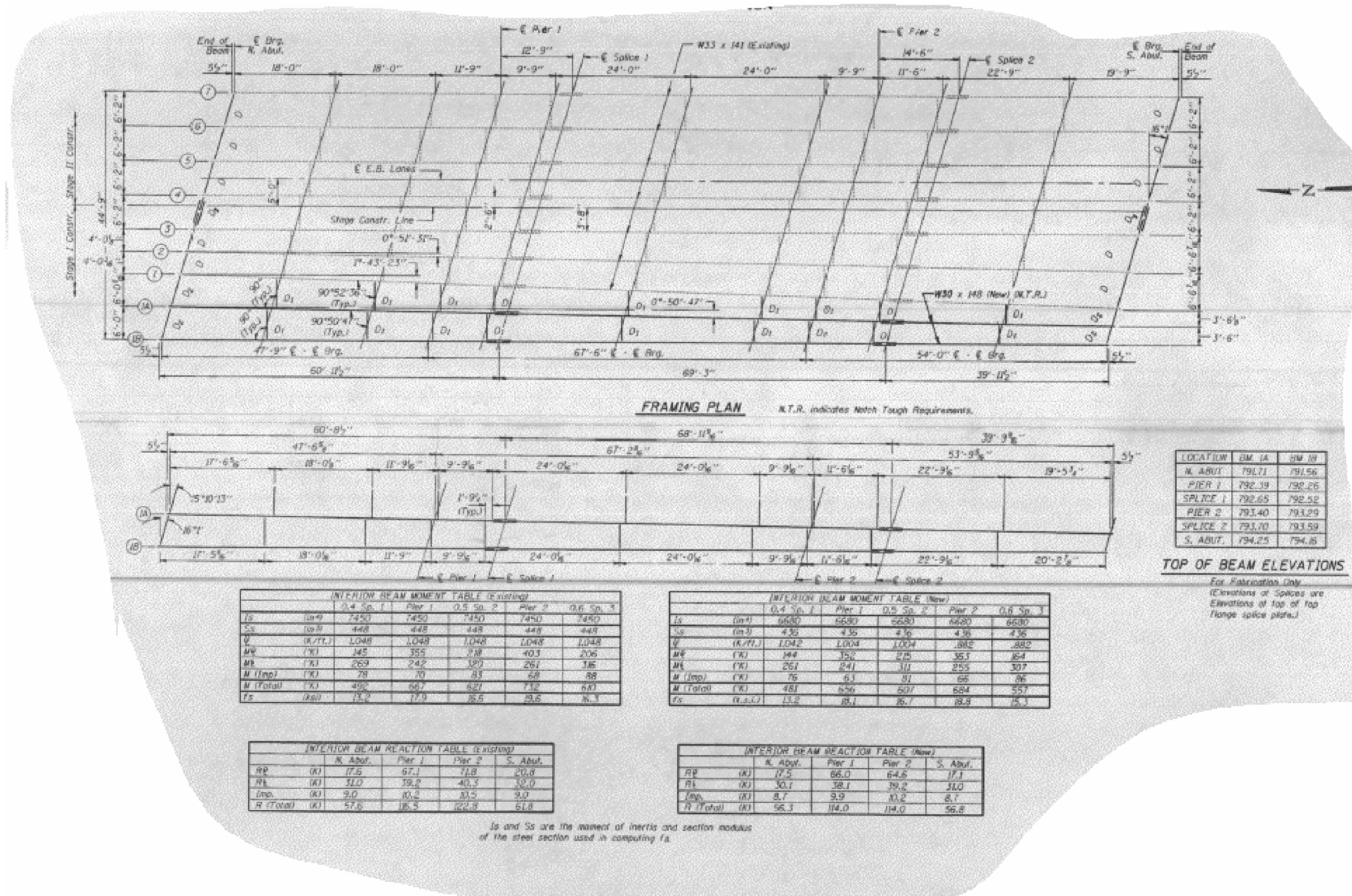
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRAMING PLAN

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2021		58	33
CONTRACT NO. 68G02				

ILLINOIS FED. AID PROJECT
• FULTON, HENDERSON, KNOX & TAZEWELL

SN 048-0007 & 048-0008 INTERSTATE 74 OVER A.T. & S.F. RAILROAD



FRAMING PLAN N.T.R. indicates Notch Tough Requirements.

LOCATION	BM. 14	BM. 19
N. ABUT.	791.71	791.56
PIER 1	792.39	792.26
SPLICE 1	792.65	792.52
PIER 2	793.40	793.29
SPLICE 2	793.70	793.59
S. ABUT.	794.25	794.16

TOP OF BEAM ELEVATIONS

For Fabrication Only
Elevations of Splices are Elevations of top of top flange splice plate.

	0.4 Sp. 1	Pier 1	0.5 Sp. 2	Pier 2	0.6 Sp. 3
I_x (in ⁴)	7450	7450	7450	7450	7450
S_x (in ³)	448	448	448	448	448
V (K/FT)	1,048	1,048	1,048	1,048	1,048
M_R (K)	145	355	218	403	206
M_L (K)	269	242	320	261	186
M (Imp) (K)	78	70	83	68	88
M (Total) (K)	492	667	627	732	680
I_y (in ⁴)	13.2	17.9	16.6	19.6	16.3

	0.4 Sp. 1	Pier 1	0.5 Sp. 2	Pier 2	0.6 Sp. 3
I_x (in ⁴)	6680	6680	6680	6680	6680
S_x (in ³)	436	436	436	436	436
V (K/FT)	1,042	1,004	1,004	882	882
M_R (K)	144	352	275	351	164
M_L (K)	261	241	311	255	307
M (Imp) (K)	76	61	81	66	86
M (Total) (K)	481	656	607	684	557
I_y (in ⁴)	13.2	18.1	16.7	18.9	15.3

	N. Abut.	Pier 1	Pier 2	S. Abut.
R_P (K)	17.5	67.1	71.8	20.8
R_L (K)	31.0	39.2	40.3	32.0
R (Total) (K)	9.0	10.2	11.2	9.0

	N. Abut.	Pier 1	Pier 2	S. Abut.
R_P (K)	17.5	66.0	64.6	17.1
R_L (K)	30.1	38.1	39.2	31.0
R (Total) (K)	8.7	9.9	10.2	8.7

I_x and S_x are the moment of inertia and section modulus of the steel section used in computing I_y .

INFORMATION ONLY

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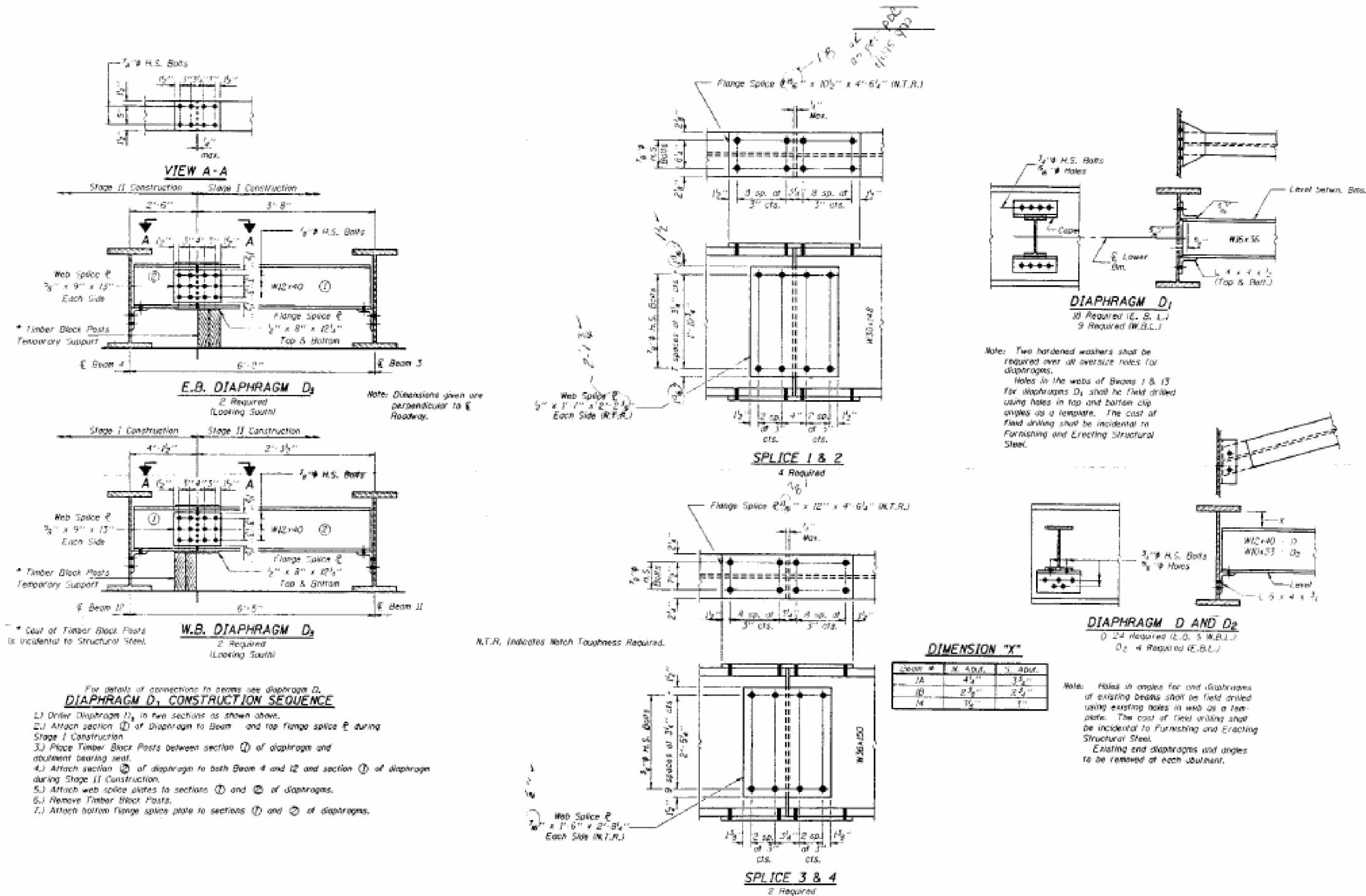
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FRAMING PLAN

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR D4 BRIDGE PAINTING 2021			58	37
CONTRACT NO. 68G02				

ILLINOIS FED. AID PROJECT
• FULTON, HENDERSON, KNOX & TAZEWELL

SN 048-0007 & 048-0008 INTERSTATE 74 OVER A.T. & S.F. RAILROAD



INFORMATION ONLY

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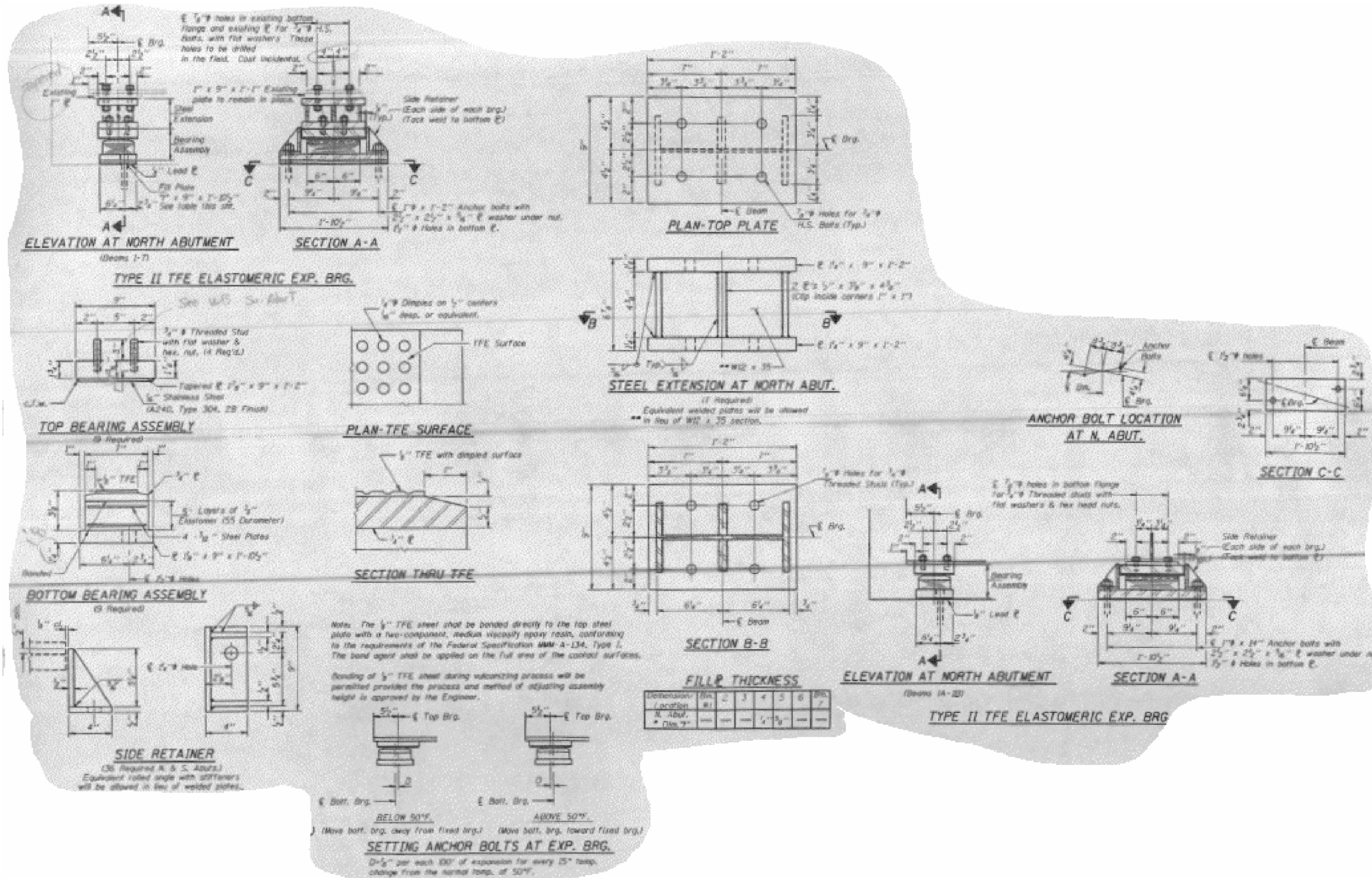
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL DETAILS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2021		58	39
			CONTRACT NO. 68G02	

ILLINOIS FED. AID PROJECT
• FULTON, HENDERSON, KNOX & TAZEWELL

SN 048-0007 & 048-0008 INTERSTATE 74 OVER A.T. & S.F. RAILROAD



INFORMATION ONLY

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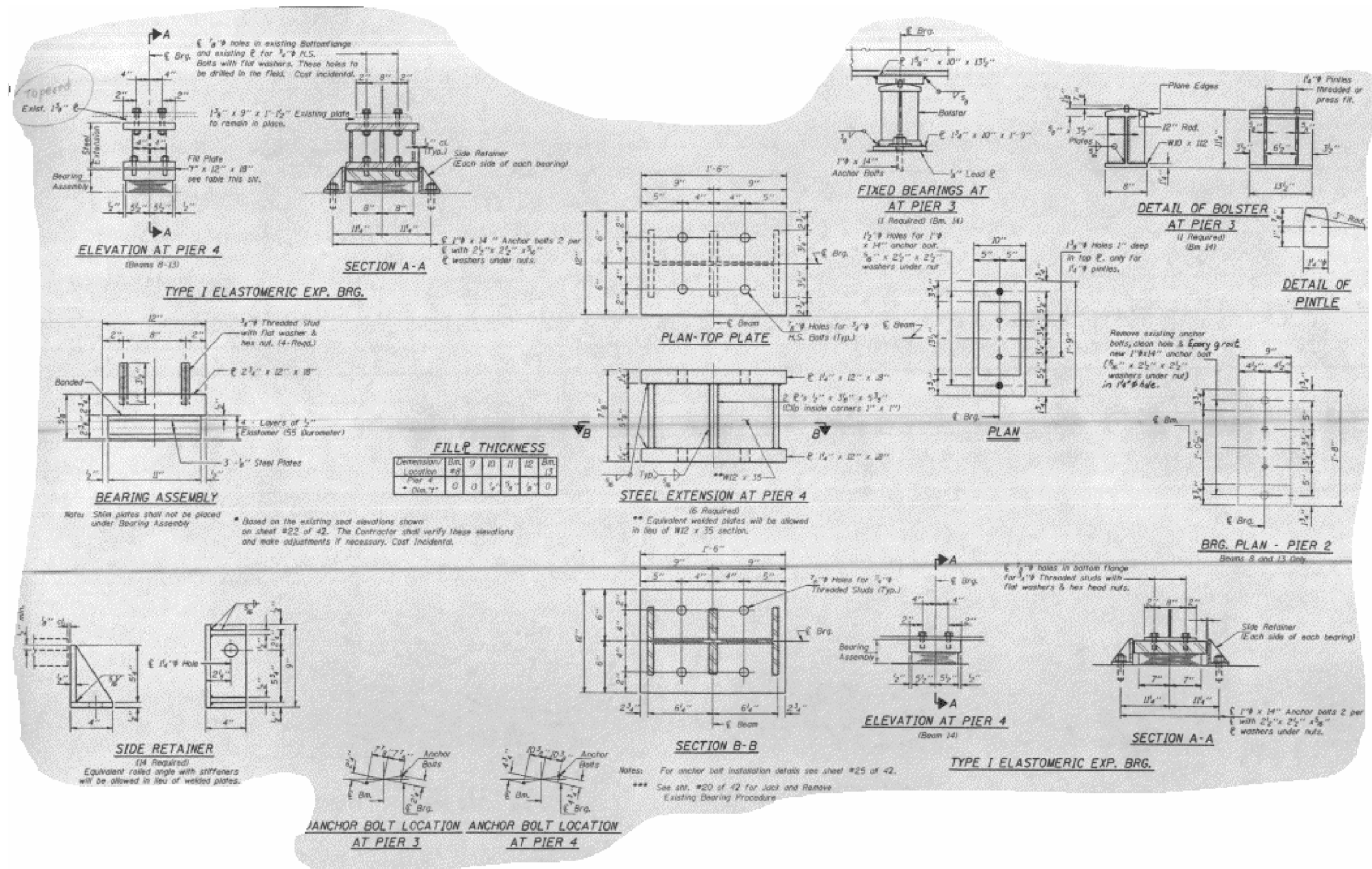
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BEARING DETAILS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR D4	BRIDGE PAINTING 2021		58	40
CONTRACT NO. 68G02				
ILLINOIS FED. AID PROJECT				
• FULTON, HENDERSON, KNOX & TAZEWELL				

SN 048-0007 & 048-0008 INTERSTATE 74 OVER A.T. & S.F. RAILROAD



INFORMATION ONLY

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2021		58	45
			CONTRACT NO. 68G02	
ILLINOIS FED. AID PROJECT				
• FULTON, HENDERSON, KNOX & TAZEWELL				

SN 090-0071 & 090-0072

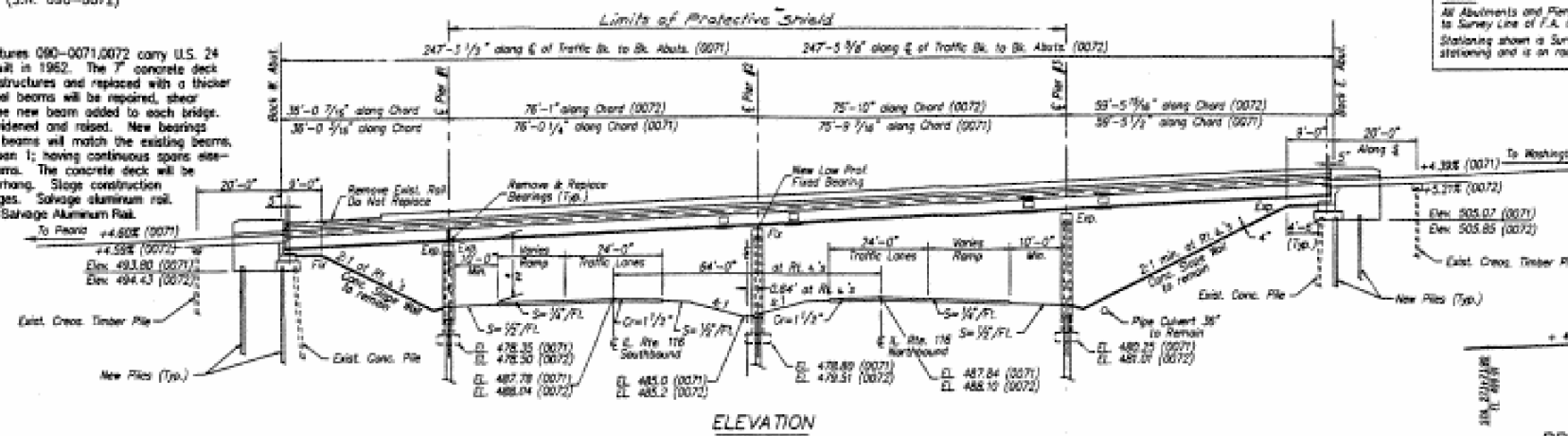
IL ROUTE 24 OVER IL ROUTE 116

B.M. #104
 "D" S. End of W. Abut. (S.N. 090-0072)
 Sec. 102HB
 Elev. 504.63

The existing 4-span structures 090-0071,0072 carry ILS 24 over IL 116, and were built in 1952. The 7" concrete deck will be removed on both structures and replaced with a thicker 7 1/2" concrete deck. Steel beams will be repaired, shear connectors placed, and one new beam added to each bridge. The substructure will be widened and raised. New bearings will be installed. The new beams will match the existing beams, having simple spans in Span 1; having continuous spans elsewhere; having straight beams. The concrete deck will be curved with a varying overhang. Stage construction will be used on both bridges. Salvage aluminum rail. See Special Provisions for Salvage Aluminum Rail.

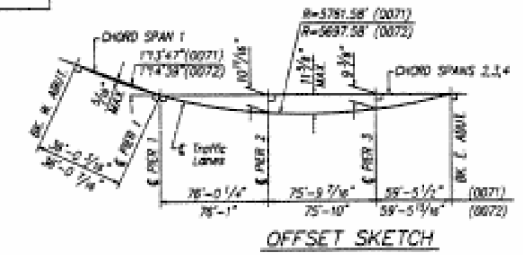


Clearances: 090-0072
 Existing: = 14.91'
 Proposed: = 14.79'
 Clearances: 090-0071
 Existing: = 14.15'
 Proposed: = 14.55'

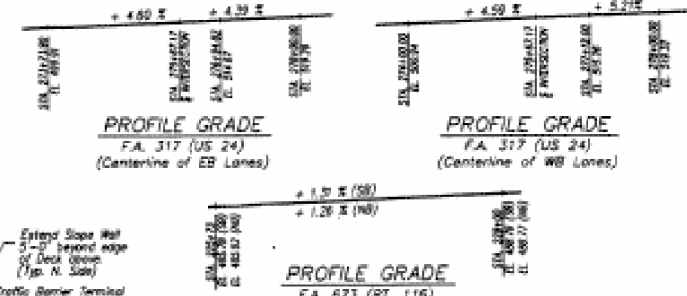


ELEVATION

NOTES:
 All Abutments and Piers are parallel to Survey Line of F.A. 673.
 Stationing shown is Survey Line stationing and is on road lines.



OFFSET SKETCH



PROFILE GRADE
 F.A. 317 (US 24)
 (Centerline of EB Lanes)

PROFILE GRADE
 F.A. 317 (US 24)
 (Centerline of WB Lanes)

PROFILE GRADE
 F.A. 673 (RT. 116)

DESIGN SPECIFICATIONS

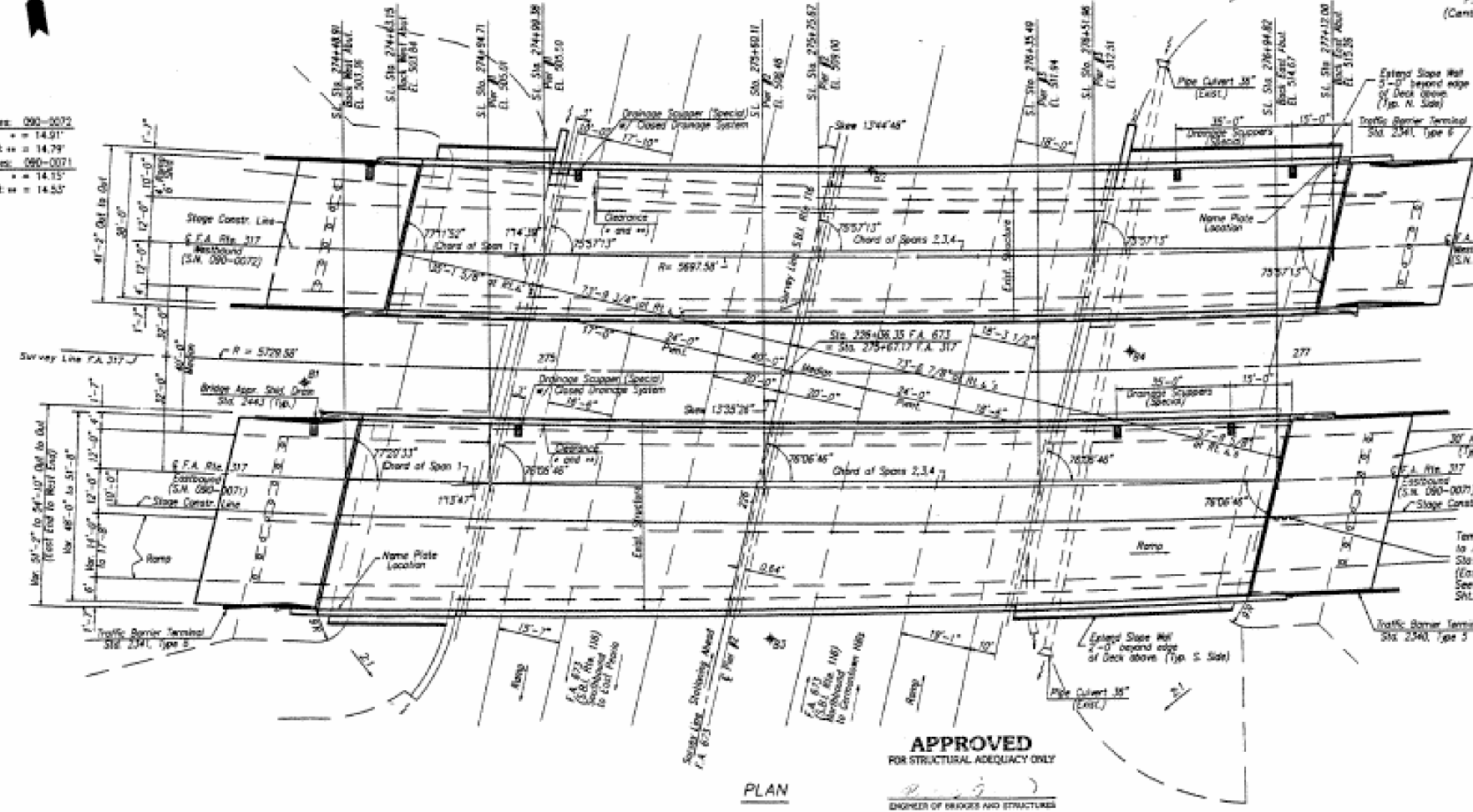
1992 AASHTO, 1993 Interim Seismic Retrofitting Guidelines for Highway Bridges (FHWA/RD83-007)

SEISMIC DATA
 S.P.C. = A
 A = 0.04
 S = 1.5

OLD MATERIAL DESIGN STRESSES
 $f_c = 3,000$ p.s.i. (Concrete)
 $f_s = 25,000$ p.s.i. (Substr.)
 $f_y = 33,000$ p.s.i. (Struct.)
 $n = 10$

NEW MATERIAL DESIGN STRESSES
 $f_c = 3,500$ p.s.i.
 $f_y = 60,000$ p.s.i. (Reinf. Steel)
 $f_y = 36,000$ p.s.i. (Struct.)

LOADING HS 20-44
 Allow 25 p.s.f. for future wearing surface



PLAN

APPROVED
 FOR STRUCTURAL ADEQUACY ONLY
 ENGINEER OF BRIDGES AND STRUCTURES

INFORMATION ONLY

Paint color: Interior surfaces Gray Munsell No. 5B 7/1
 Exterior surfaces Blue Munsell No. 10B 3/6

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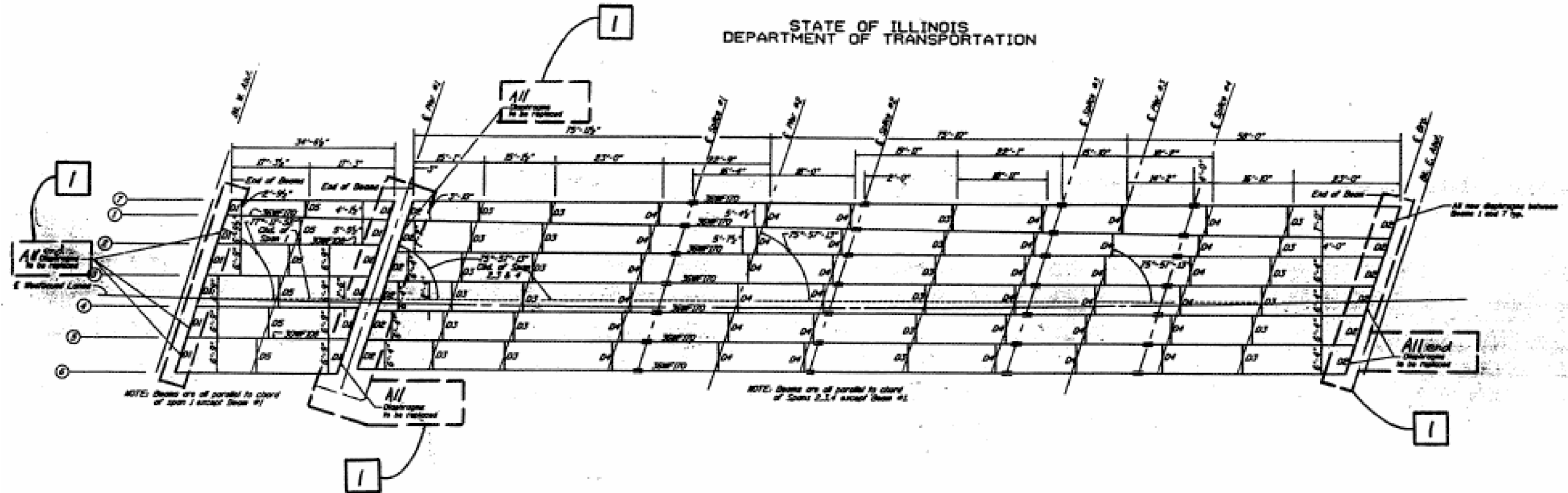
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PLAN & ELEVATION VIEW

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR D4	BRIDGE PAINTING 2021		58	46
CONTRACT NO. 68C02			ILLINOIS FED. AID PROJECT	
* FULTON, HENDERSON, KNOX & TAZEWELL				

SN 090-0071 & 090-0072 IL ROUTE 24 OVER IL ROUTE 116

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



NOTE: Beams are all parallel to chord of span 1 except beam #1

NOTE: Beams are all parallel to chord of spans 2, 3, 4 and beam #5

General Notes:
1. The Superstructure will be built along a Curve.
2. Provide one ball for all new connections.
3. See tabs for dimensions to be replaced on sheet #8.

Beam # 7 Dimensions

Location	Dimension
E. Abut to Pier #1	34'-05"
Pier #1 to Splice #1	88'-15"
Splice #1 to Splice #2	38'-0"
Splice #2 to Splice #3	40'-0"
Splice #3 to Splice #4	50'-0"
Splice #4 to E. Abut.	43'-05"

INFORMATION ONLY

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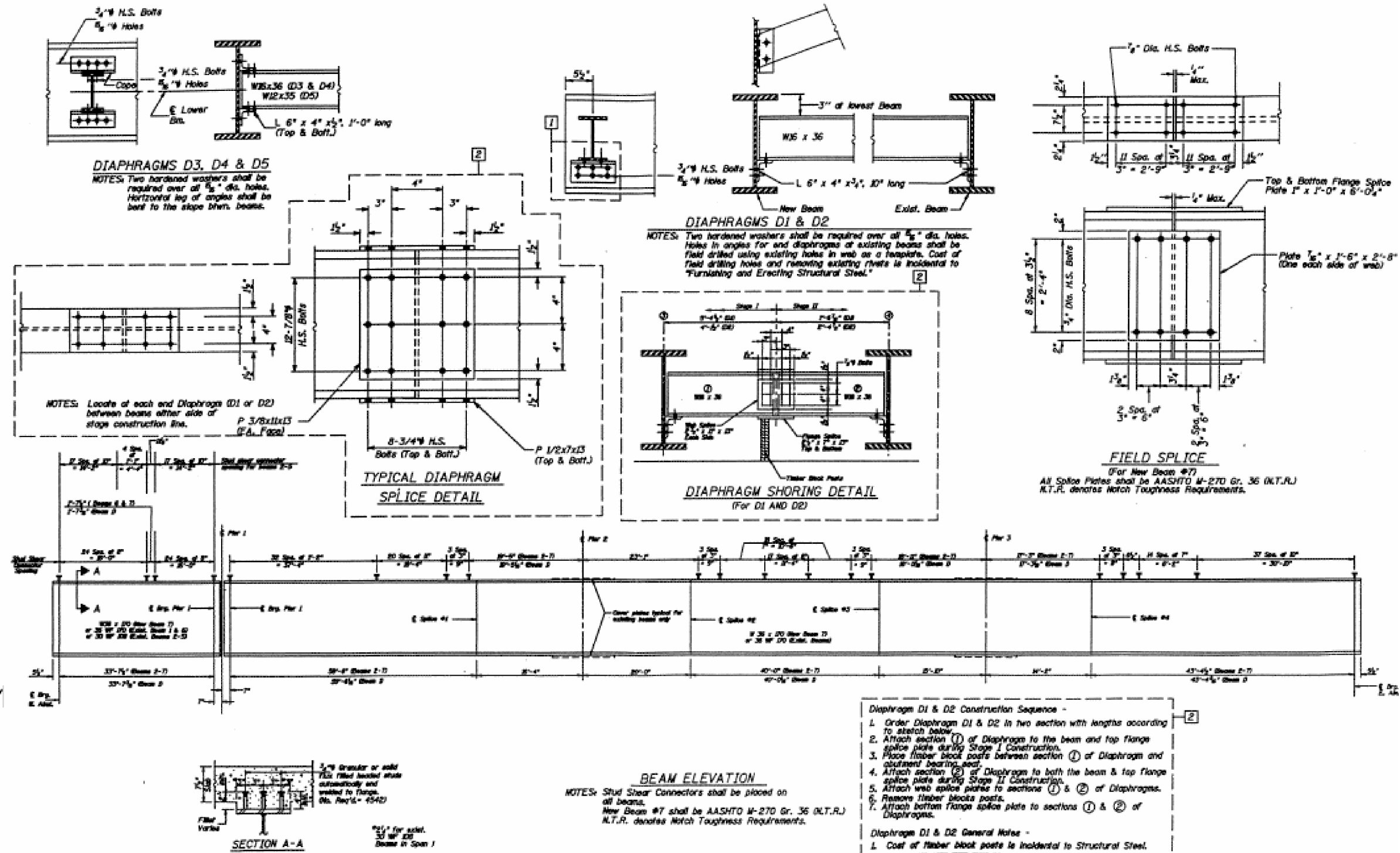
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRAMING PLAN

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2021		58	48
			CONTRACT NO. 68G02	

ILLINOIS FED. AID PROJECT
• FULTON, HENDERSON, KNOX & TAZEWELL

SN 090-0071 & 090-0072 IL ROUTE 24 OVER IL ROUTE 116



INFORMATION ONLY

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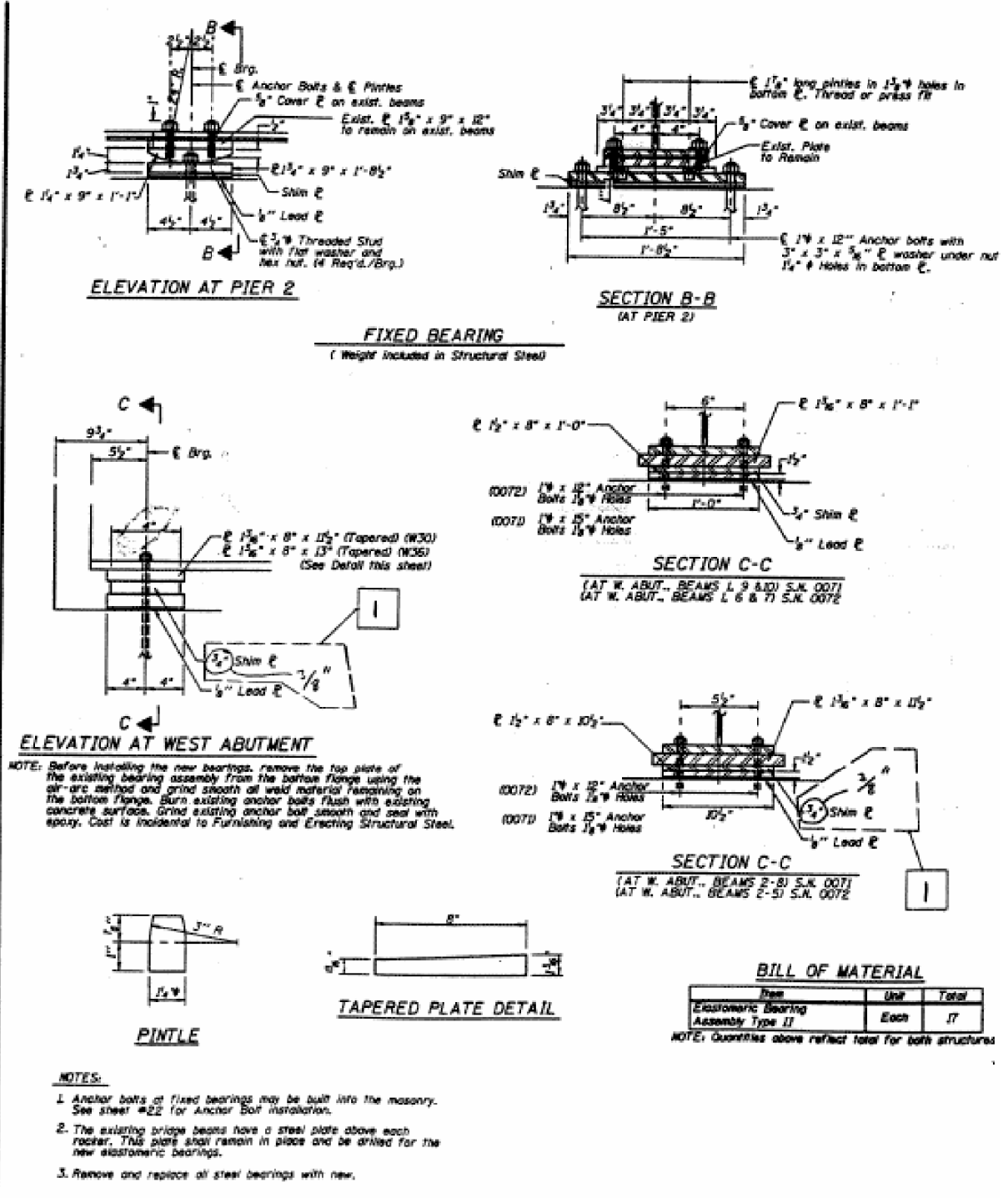
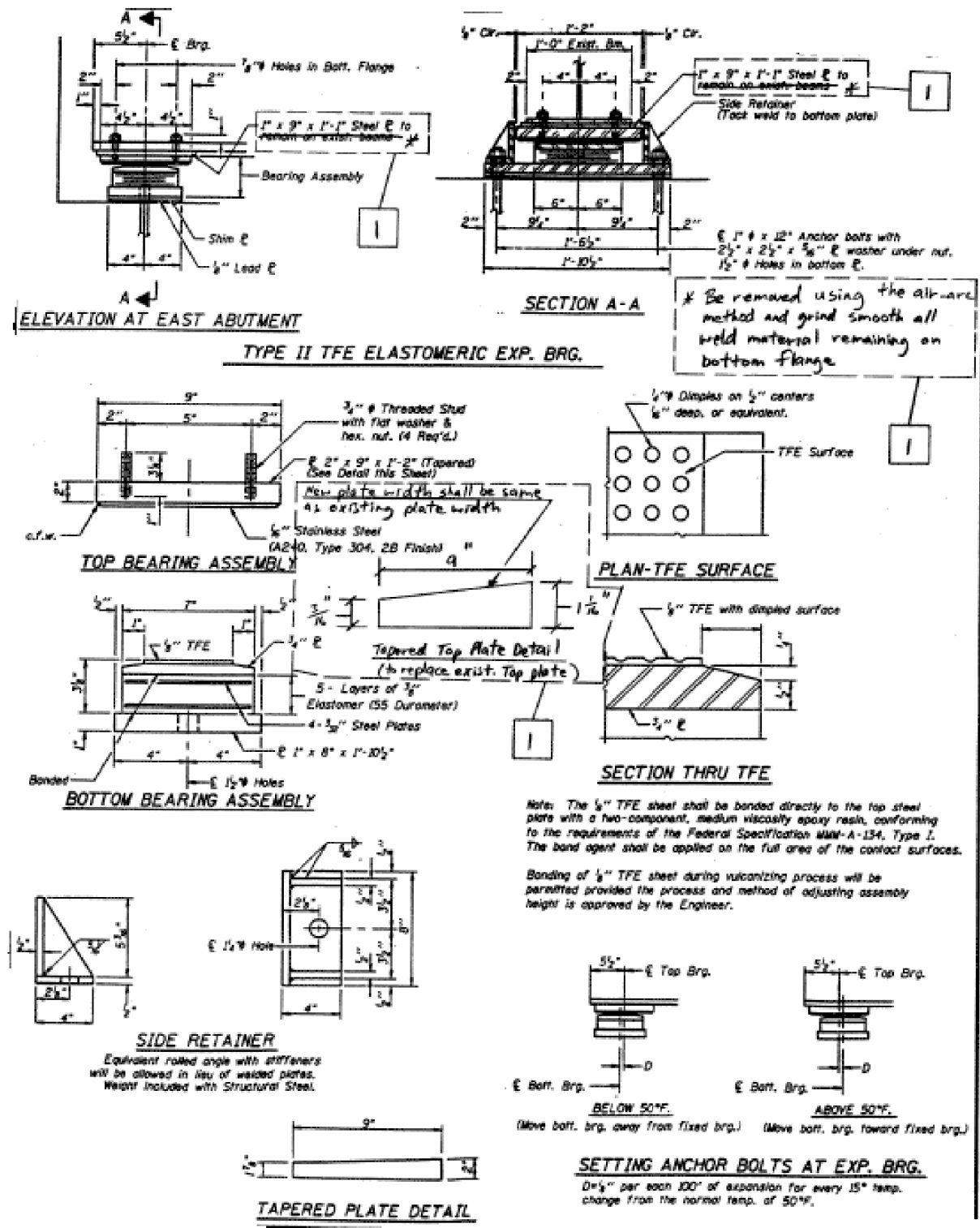
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL DETAILS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2021		58	50
CONTRACT NO.			68G02	

ILLINOIS FED. AID PROJECT
 • FULTON, HENDERSON, KNOX & TAZEWELL

SN 090-0071 & 090-0072 IL ROUTE 24 OVER IL ROUTE 116



BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type II	Each	17

NOTE: Quantities above reflect total for both structures

INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS

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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2021		58	53
CONTRACT NO. 68G02			ILLINOIS FED. AID PROJECT	

FULTON, HENDERSON, KNOX & TAZEWELL

SN 090-0144

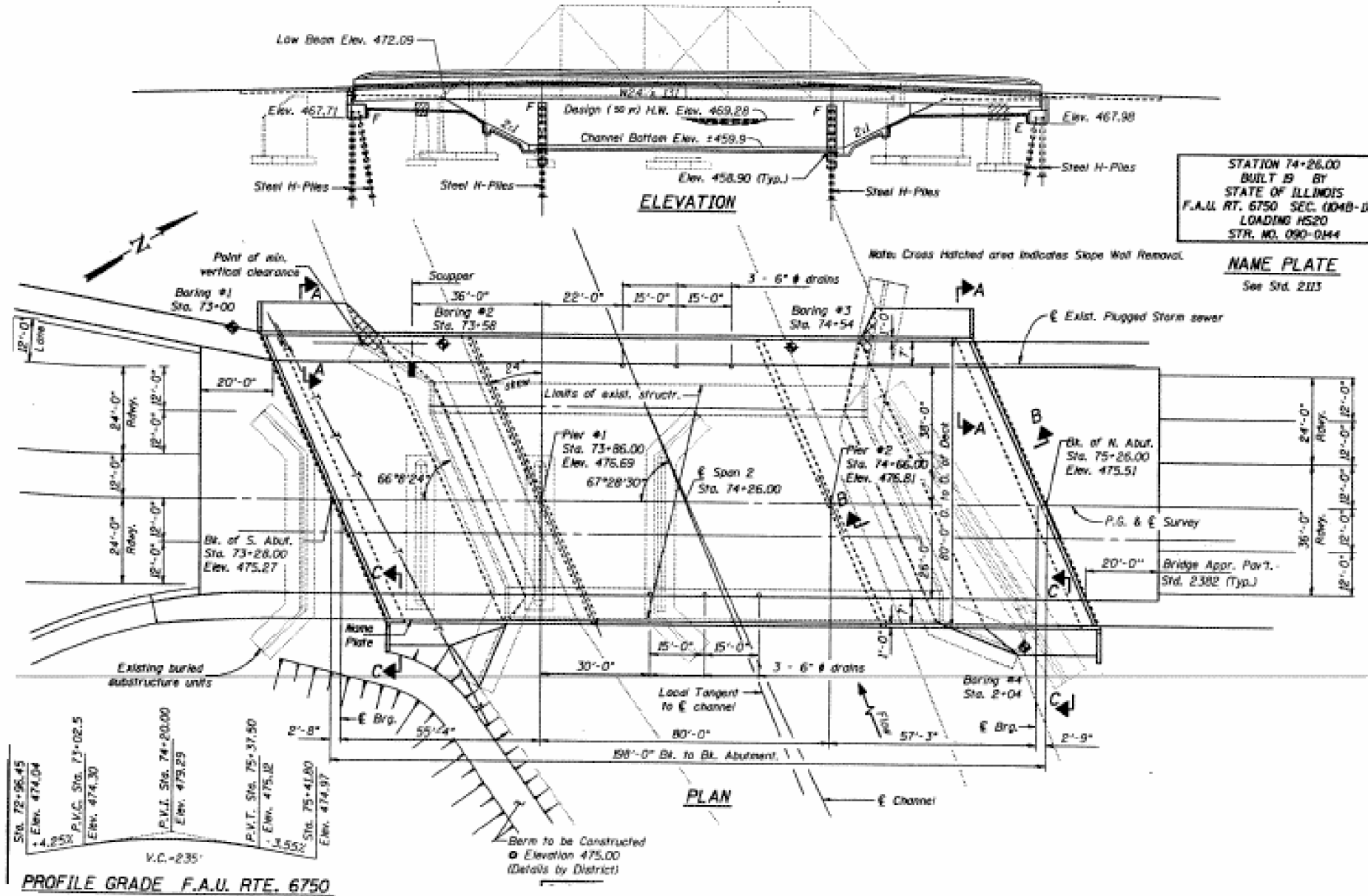
EAST WASHINGTON STREET OVER FARM CREEK

Bench Mark: Chiseled square on E. end of headwall on the north side of Farm Creek 100'± west of bridge. S.K. 090-0036, Elev. 458.87 (TBM 'A')

Existing Structure: Sta. 74+25.52 SBI Rte. 121 Section 104-B-1, Built in 1953; Structure # 090-0036
The structure is a one span truss with a bk. to bk. abut. of 121'-0" and a width of 65'-0" O. to O. of deck. The contractor shall remove existing structure and replace it with a 3 span W.F. structure. Traffic shall be detoured.

No salvage.

Note: Hatched areas indicate removal of existing pier and abutment to 6" below the bottom of the slope wall. The cost of this removal is included in "Removal of Existing Structures".
For Sections A-A, B-B and C-C see sheet 2 of 24.
The removal of existing roadway and excavation behind the existing abutments is incidental to "Removal of Existing Structures".



INFORMATION ONLY

Paint color: Interior surfaces Gray Munsell No. 5B 7/1
Exterior surfaces Blue Munsell No. 10B 3/6

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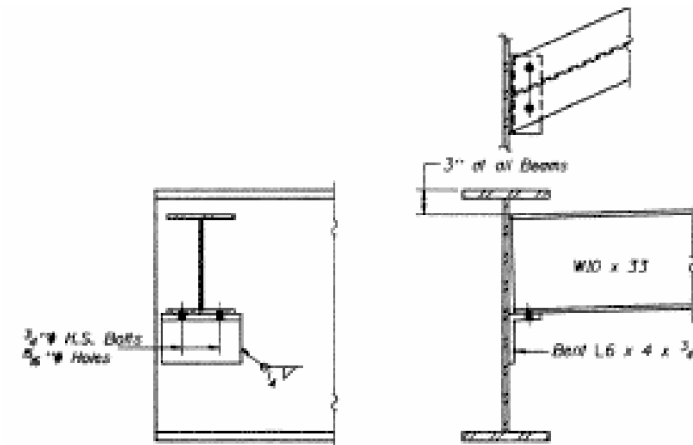
PLAN & ELEVATION VIEW

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR D4	BRIDGE PAINTING 2021		58	54
CONTRACT NO. 6802				

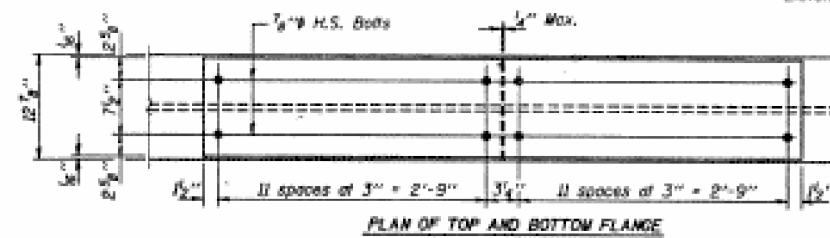
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SN 090-0144

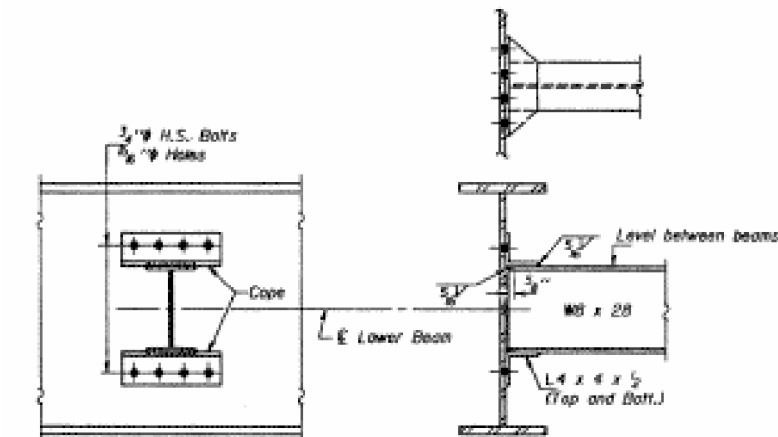
EAST WASHINGTON STREET OVER FARM CREEK



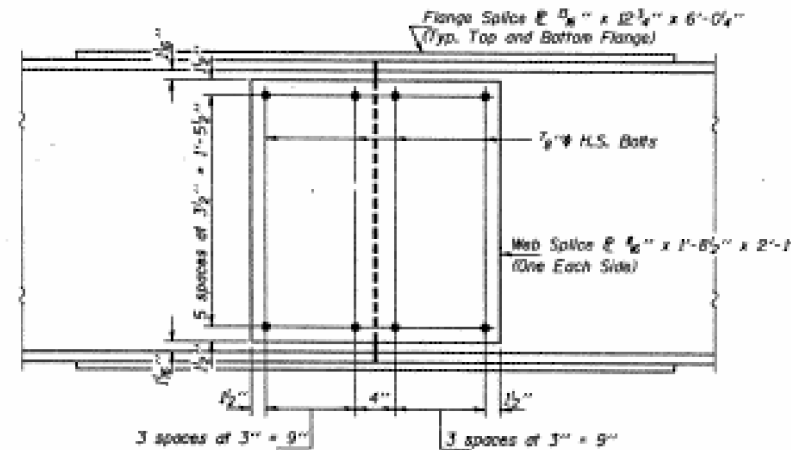
DIAPHRAGM D
(22 Required)



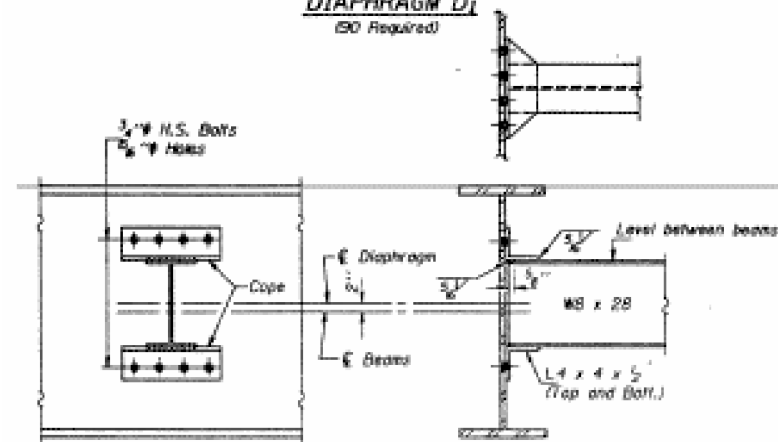
PLAN OF TOP AND BOTTOM FLANGE



DIAPHRAGM D1
(50 Required)



WEB ELEVATION



DIAPHRAGM D2
(9 Required)

Notes: Two hardened washers shall be required over all bolt holes in diaphragms.
All splice plate material shall meet Match Toughness Requirements.
All splice plate material shall be AASHTO M223, Grade 50, *A.C.T.R.*
All diaphragms and connecting angles shall be *MBS*.

*** TOP OF FLANGE ELEVATIONS**

Location	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5	Beam 6	Beam 7	Beam 8	Beam 9	Beam 10	Beam 11	Beam 12
Brg. South Abut.	473.43	473.55	473.77	473.98	474.20	474.41	474.62	474.83	474.68	474.67	474.66	474.74
Brg. Pier 1	474.96	475.02	475.09	475.35	475.51	475.66	475.81	475.83	475.77	475.70	475.63	475.66
Splice 1	475.24	475.29	475.44	475.59	475.74	475.89	476.03	476.04	475.97	475.89	475.81	475.83
Splice 2	475.71	475.70	475.80	475.89	475.98	476.06	476.14	476.10	475.96	475.82	475.69	475.65
Brg. Pier 2	475.59	475.57	475.65	475.74	475.81	475.89	475.96	475.90	475.76	475.61	475.46	475.41
Brg. North Abut.	474.89	474.87	474.84	474.86	474.89	474.90	474.92	474.80	474.60	474.40	474.19	474.09

* Elevations are for fabrication only and do not include Dead Load Deflections.

INTERIOR BEAM MOMENT TABLE						
		0.4 Span 1	Pier 1	0.5 Span 2	Pier 2	0.6 Span 3
I_x	(in ⁴)	4020	4020	4020	4020	4020
I_y	(in ⁴)	1003	1003	1003	1003	1003
S_x	(in ³)	329	329	329	329	329
S_y	(in ³)	483.9	483.9	483.9	483.9	483.9
Z	(in ³)	370	370	370	370	370
M	(K/FT)	0.811	1.184	0.811	1.184	0.811
M_E	(K)	341.5	530.9	251.6	547.3	358.7
M_F	(K/FT)	0.373	—	0.373	—	0.373
M_{FP}	(K)	81.2	—	156.5	—	89.5
M_L	(K)	381.5	256.3	508.6	251.2	405.4
M (Max)	(K)	325.7	66.6	124.4	17.6	111.1
$S_y(M_L + I)$	(K)	812.0	538.2	1056.7	548.0	860.8
M_s	(K)	1345.7	1389.8	1804.2	1423.9	1441.7
M_u	(K)	2685	1542	2685	1542	2685
f_s (non-composite)	(K)	5.2	19.4	9.2	20.0	5.8
f_s (comp)	(K)	2.0	—	1.9	—	2.2
$f_s(M_L + I)$	(K)	20.1	19.6	26.2	20.0	21.3
f_s (Overload)	(K)	27.3	39.0	39.3	40.0	29.1
V_R	(K)	50.6	—	52.3	—	51.0

INTERIOR BEAM REACTION TABLE					
	S. Abut.	Pier 1	Pier 2	N. Abut.	
R_E	(K)	23.2	89.5	91.1	24.4
R_L	(K)	35.7	46.1	46.6	36.0
Imp.	(K)	9.9	12.0	12.1	9.9
R (Total)	(K)	68.8	147.6	149.8	70.3

I_x and S_x are the moment of inertia and section modulus of the steel section used in computing f_s (Overload).

I_y and S_y are the moment of inertia and section modulus of the composite section used in computing f_s (Overload).

V_R is the maximum Live Load + Impact shear range in span.

M_L (Applied Moment) = $1.3(M_E + M_F + S_y M_L + I)$

M_u is the Full Plastic Moment Capacity for Composite

Graced section.

f_s (Overload) is the sum of the stresses due to $M_E + M_F + S_y M_L + I$.

Z is the plastic section modulus used to determine the Fully Plastic Moments in the non-composite areas.

INFORMATION ONLY

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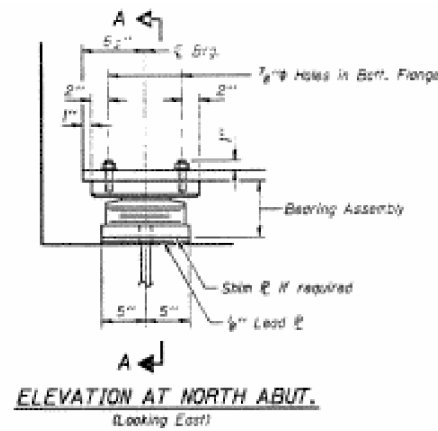
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STRUCTURAL STEEL DETAILS

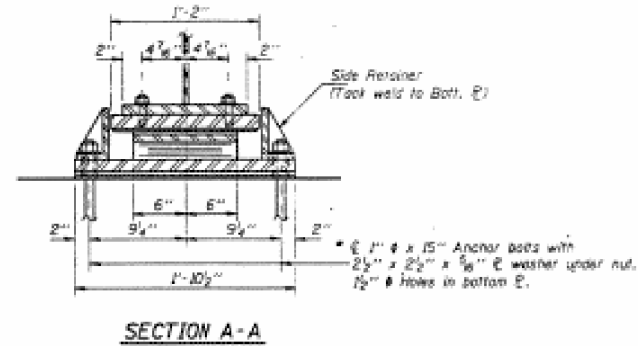
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2021		58	56
CONTRACT NO. 68G02				

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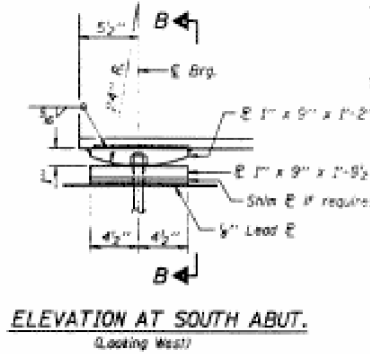
SN 090-0144 EAST WASHINGTON STREET OVER FARM CREEK



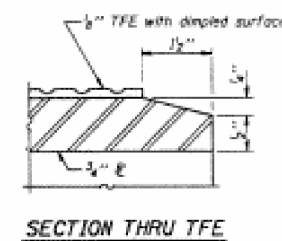
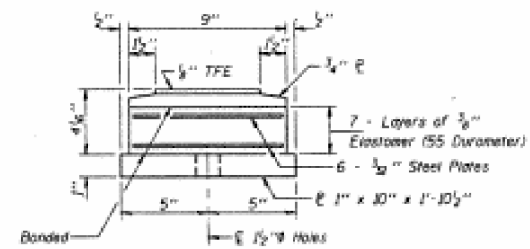
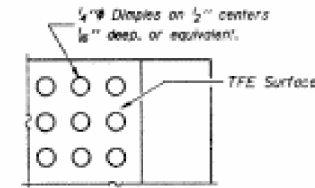
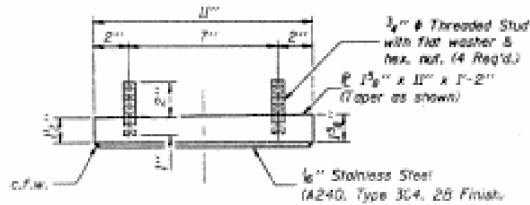
TYPE II TFE ELASTOMERIC EXP. BRG.



* Notes: Anchor bolts of fixed bearings may be built into the masonry. See sheet 15 of 24 for Anchor Bolt Installation.

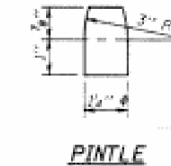
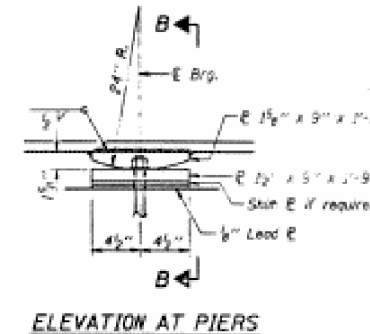
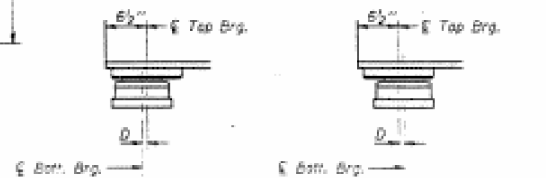
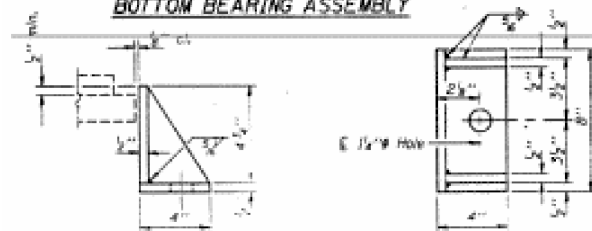


SECTION B-B



Note: The 1/4" TFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MSW-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of 1/4" TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.



FIXED BEARINGS
All Fixed Bearing Plates shall be AASHTO M223 Grade 50.

SHIM PLATE THICKNESS TABLE

Location	S. Abut.	Pier 1	Pier 2	N. Abut.
Beam 1			1 1/2"	
Beam 2				
Beam 3				
Beam 4				
Beam 5				
Beam 6				
Beam 7		1 1/2"	1 1/2"	
Beam 8				
Beam 9				
Beam 10		1 1/2"	1 1/2"	
Beam 11				
Beam 12				

Note: All shim plates shall be M32.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type II	Each	12

INFORMATION ONLY

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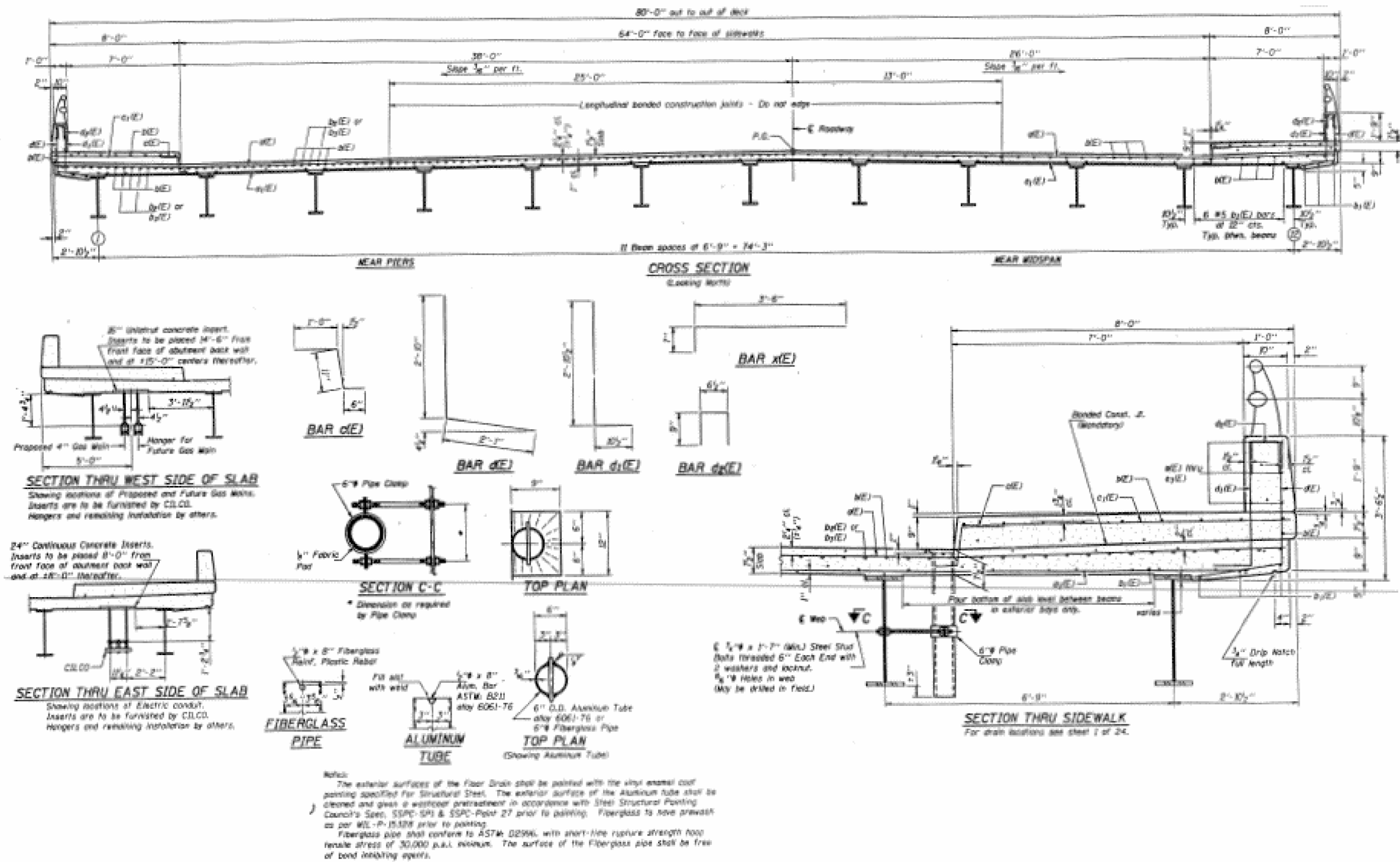
STRUCTURAL STEEL DETAILS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2021		58	57
CONTRACT NO. 68G02				

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SN 090-0144

EAST WASHINGTON STREET OVER FARM CREEK



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STRUCTURAL STEEL DETAILS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2021		58	58
CONTRACT NO. 68G02				
ILLINOIS FED. AID PROJECT				
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