06-13-14 LETTING ITEM 103

- 1. INDEX OF SHEETS
- 2. ADDITIONAL MAP LOCATIONS
- 3.&4. SUMMARY OF QUANTITIES
- **5 GENERAL NOTES**
- 6 21 PLAN SHEETS

STANDARDS

701001-02

701006-05

701201-04

701400-07

701402-09

701901-03

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

ROUTE VARIOUS SECTION D4 BRIDGE PAINTING 2014

TYPE of IMPROVEMENT BRIDGE PAINTING VARIOUS COUNTIES

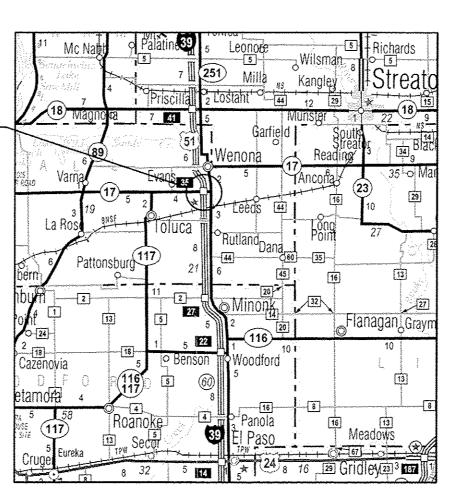
C-94-053-13

LOCATION 1 S.N. 062-0050

ADT AND TRUCK
LOCATION 1 - 15,000 AND 4,950
LOCATION 2 - 1,450 AND 110
LOCATION 3- 475 AND 50
LOCATION 4- 12,800 AND 1,600
LOCATION 5 - 2,600 AND 250

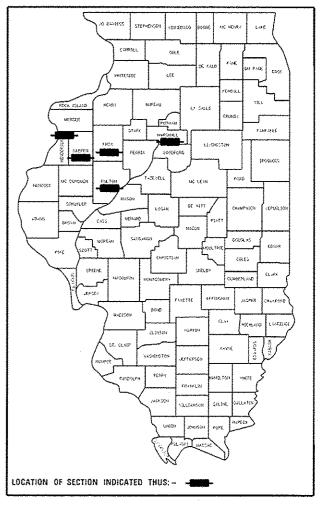
PROJECT ENGINEER TOM INGLIS (309) 671–3450 PROJECT MANAGER NICK JACK (309) 671–3451

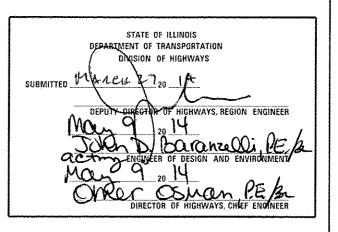
CONTRACT NO. 68B47



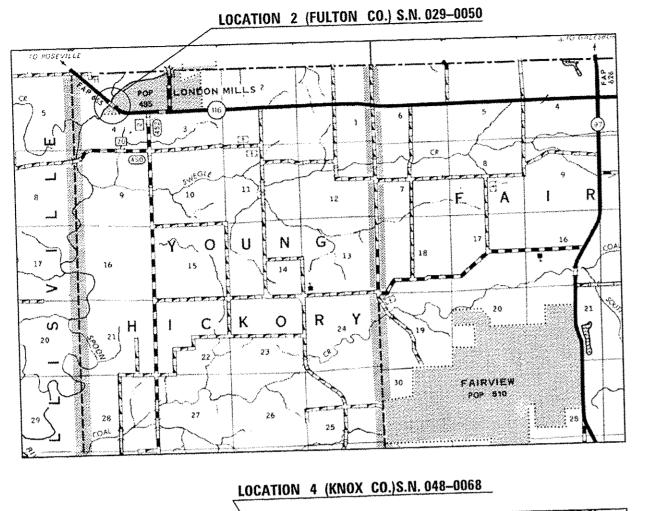
Description of Project. Cleaning and Painting of 5 Structures Located in 5 Counties through out District 4.

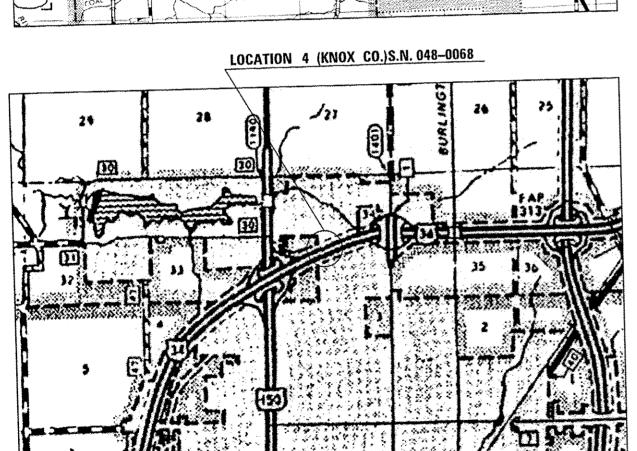
D-94-029-13





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS





DESIGNED -

CHECKED

DRAWN

DATE

USER NAME : Tom Inglis

PLOT DATE . 4/17/2014

PLOT SCALE : 180,0000 1 in.

FILE NAME :

Contract 68847 bridge painting 20

REVISED -

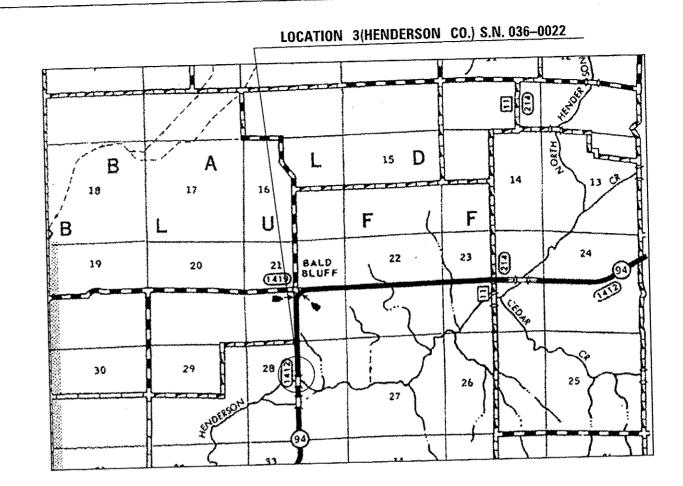
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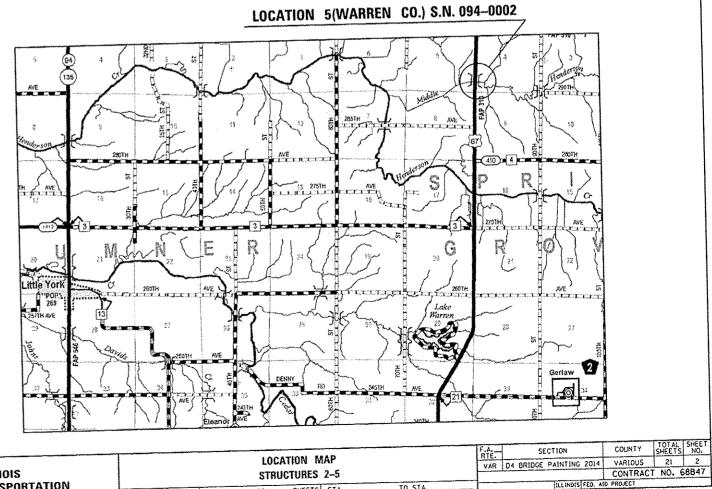
REVISED

REVISED

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION





LOCATION MAP

STRUCTURES 2-5

_ SHEET ___

SCALE: ._

OF ____ SHEETS STA._____

TO STA.

ILLINOIS FED. AID PROJECT

				CONSTRUC	TION CODE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	RURAL VARIOUS 0014	URBAN VARIOUS 0014
140.			QUANIIII	100% STATE	100% STATE
50606701	CLEANING AND PAINTING STRUCTURAL STEEL, LOCATION 1	L SUM	4	1	
50606702	CLEANING AND PAINTING STRUCTURAL STEEL, LOCATION 2	L SUM	1	T a	
50606703	CLEANING AND PAINTING STRUCTURAL STEEL, LOCATION 3	L SUM	1	e e e	
0606704	CLEANING AND PAINTING STRUCTURAL STEEL, LOCATION 4	L SUM	4-1		1
30606705	CLEANING AND PAINTING STRUCTURAL STEEL. LOCATION 5	L SUM	1	1	
57100100	MOBILIZATION	L SUM	1	0.8	0. 2
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	2	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	
(5060601	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1	
				e van de la constante de la co	
5060603	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 3	L SUM	1	1	
7010410		CAL MO	2	1	1
7015005	CHANGEABLE MESSAGE SIGN	CAL DA	15	12	3
0007102	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 2	L SUM	1	1	
.0007104	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 4	L SUM	t and	The first channels of the chan	1
0007105	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 5	L SUM	The state of the s	1	

¥ 15

FILE NAME :

1-5.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

P.A. SECTION COUNTY TOTAL SHEET NO.

VAR D4 BRIDGE PAINTING 2014 VARIOUS 21 3

CONTRACT NO. 68847

				CONSTRUCT	TION CODE
				RURAL	URBAN
CODE		1	TOTAL	VARIOUS	VARIOUS
NO.	ITEM	UNIT	QUANTITY	0014	0014
NO.			UUANTITI	100% STATE	100% STATE
20052398	PORTABLE TEMPORARY BARRIER SYSTEM	FOOT	319	319	
:0052399	RELOCATE PORTABLE TEMPORARY BARRIER SYSTEM	FOOT	1517	599	918

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Contract 68847 bridge painting 2014.dgn		DRAWN -	REVISED -
	PLDT \$CALE . 100.0000 ' / In.	CHECKED -	REVISEO -
	PLOT DATE + 3/26/2014	DATE -	REVISED -

COMMITMENTS

No Commitments have been made for this project. **GENERAL NOTES**

All cleaning and painting shall be as specified in the Special Provisions fo "Cleaning and Paining Existing Structural Steel" All beams, brackets and all other structural steel shall be cleaned per Near White Blast Cleaning SSPC-SP10 according to the following schedule: Bridge Locations 1-5, Entire Structure

The final finish coat for the fascia beams shall be according to the following schedule:

Bridge Locations 1 & 4 shall be Red Brown(Munsell No. 2.5YR 3/4.

Bridge Locations 2,3 & 5 shall be Blue (Munsell No. 10B 3/6.

The finial finish coat for the underside for all locations shall be Light Grey (Munsell No. 5B 7/1.

Location 1, Screen Panels shall be removed and disposed of by the contractor this work shall be included in the Lump Sum cost of "Cleaning and Painting Structural Steel, Location 1".

Location 2, due to navigable waterway (canoe traffic) the contractor shall install a safe span or equivalent over the channel span 7 of this structure.

This work shall be include in the Lump Sum cost of "Containment and Disposal of Lead Paint Cleaning Residues No.2.

Locations 2 & 3 beam ends were previously Metalized, cleaning and painting work shall be for the rest of the structure not already metalized.

Air Monitors.

2 for location 4 only.

0 for all other locations.

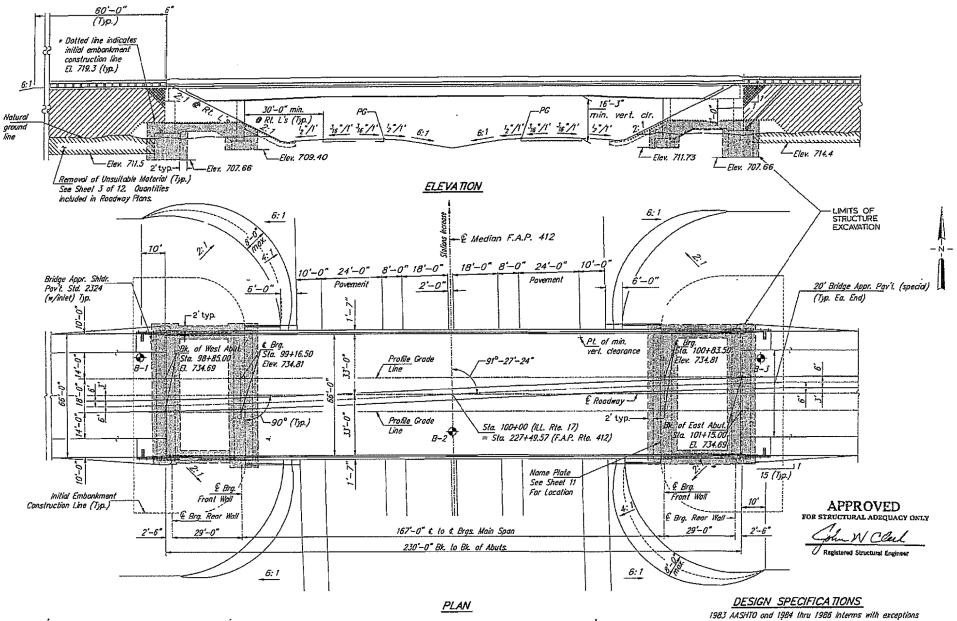
QP 1 & 2 Required for this Project.

FILE NAME :	USER NAME 3 keithbr	DESIGNED -	REVISED -
Contract 60847 bridge pointing 2014.dgn		DRAWN -	REVISEO -
	PLOT SCALE . 100,8008 '/ 10.	CHECKED -	REVISED -
Default	PLOT BATE = 3/25/2014	DATE -	REVISED -

STATI	E 01	F ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

SCALE

	GEN	ERAL NO	TES	F.A.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
					VAR	D4 BRIDGE PAINTING 2014	VARIOUS	21	5	
							CONTRACT	NO.	68847	
 SHEET	0F	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT					



LYC = 1000°

PROFILE GRADE (F.A.P. 412)

(along median edge of pavement)

GENERAL NOTES

- 1. See Sheet 3 of 12 for Boring Data.
- 2. Fasteners shall be High Strength Balls. Balts 7/8" Dia., Open Holes 15/16" Dia., unless otherwise nated
- 3. Calculated weight of AASHTO M-223, Grade 50 Structural Steel= 211, 208ibs. Calculated weight of AASHTO M-183 Structural Steel=285, 103 ibs.
- The Zinc-Silicate and Vinyl Point System shall be used for shap and field pointing of structural except where otherwise noted.
- Field wedging of construction accessories will not be permitted to the bottom flange of line girders nor to line top flange of the girders in Spons I and J, nor to the top flange in Span 2 for a distance equal to one fourth the spon length from the obutment front walls. Field welding in other areas will be permitted only when approved by the Engineer.
- 6. Anchor Bolts shall be set before botting cross frames over abutment front
- 7. The main laad carrying components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the tension flanges, webs and all splice plate material of the steel girders.
- 8. Reinforcement Bars snail conform to the requirements of AASHTO M-31, M-42 or M-53 Grade 60.
- 9. Slope Wall shall be reinforced with Welded if Fe Fabric, 6" x 6" -14.0 x 14.0, weighing 58 Lbs. per 100 Sq. Ft.
- 10. Bearing Seat Surfaces shall be constructed or objected to the designated elevations within a tolerance of 1/8 inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two 1/8" adjusting shims shall be provided for each bearing. See Sheet 9 of 12 for shim plate size. The shim states are considered incidental to the Bastomeric Bearing and are not included in the structural steel
- All structural steel fabricators perferming work on the main load comping components of steel structures shall be certified under Category 111 (AISC) of the Quality Certification Program.



R.1E 3rd.PM R.2E

LOCATION SKETCH

30

STATION 227+49.57 BUILT 19__ BY STATE OF ILLINOIS F.A.P. RT. 412 SEC. 62-2HB-2 PROJECT EBF-412-3(25) LOADING HS20 STR. NO. 062-0050

NAME PLATE

21 6

CONTRACT NO. 68B47

See Std. 2113

or madifications as indicated.

LOADING HS20-44

Allow 25#/sq. ft. for future wearing surface.

DESIGN STRESSES

- fc = 3,500 psi
- ty = 60,000 psi (reinforcement)
- ty = 50,000 psi Flanges (Structural steel AASHTO M223 , Grade 50)
- ty = 36,000 psi Web (Structural steel AASHTO MIRTI

SCALE:

Mox. range of temperature = 120F(-10F to 110').

NAME =	USER NAME = keithbr	DESIGNED -	REVISED -
tract 68B47 bridge painting 2014.dgn		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -
oult	PLOT DATE = 3/26/2014	DATE -	REVISED -
			•

MEDIAN GEOMETRY

- Sto. 100+00

-Sta. 101+35

STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	

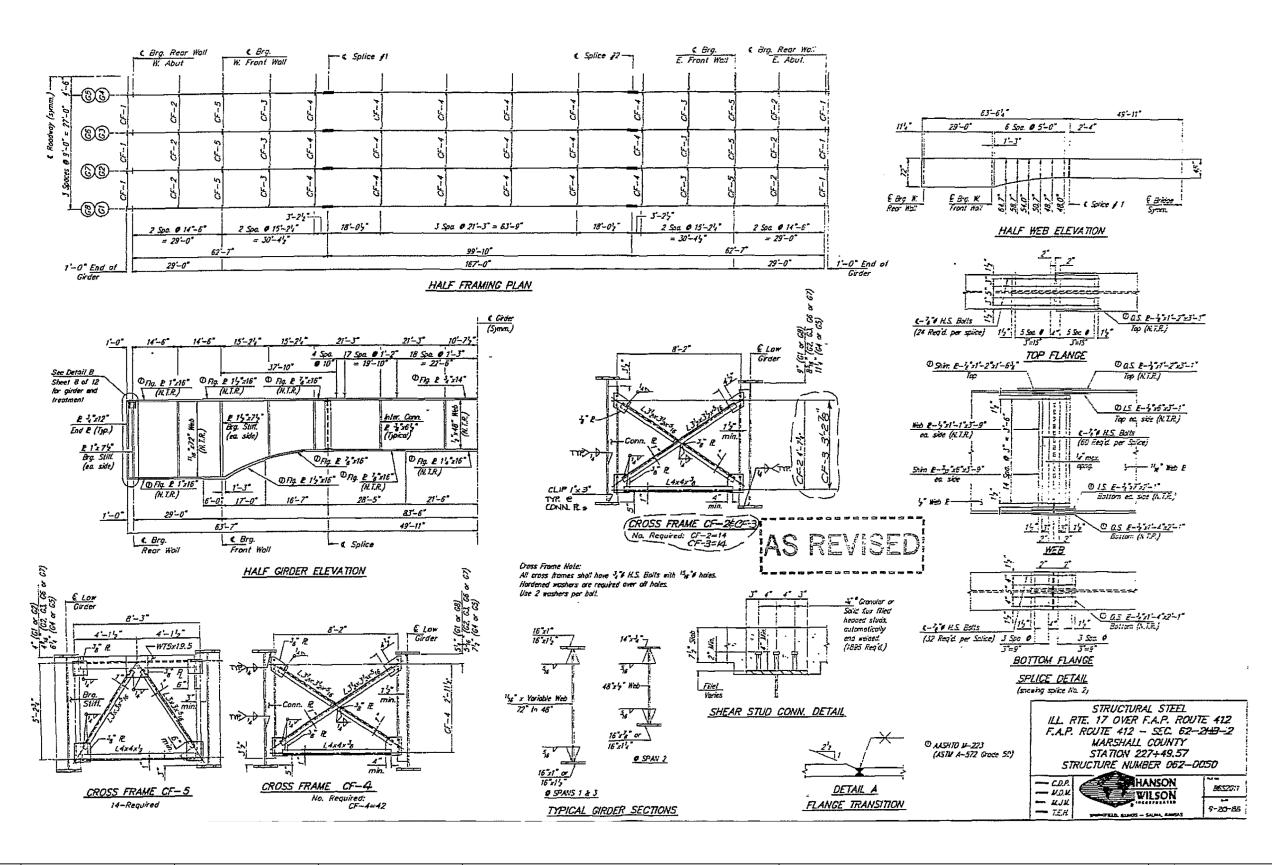
Sta. 729.1

LVC = 1000

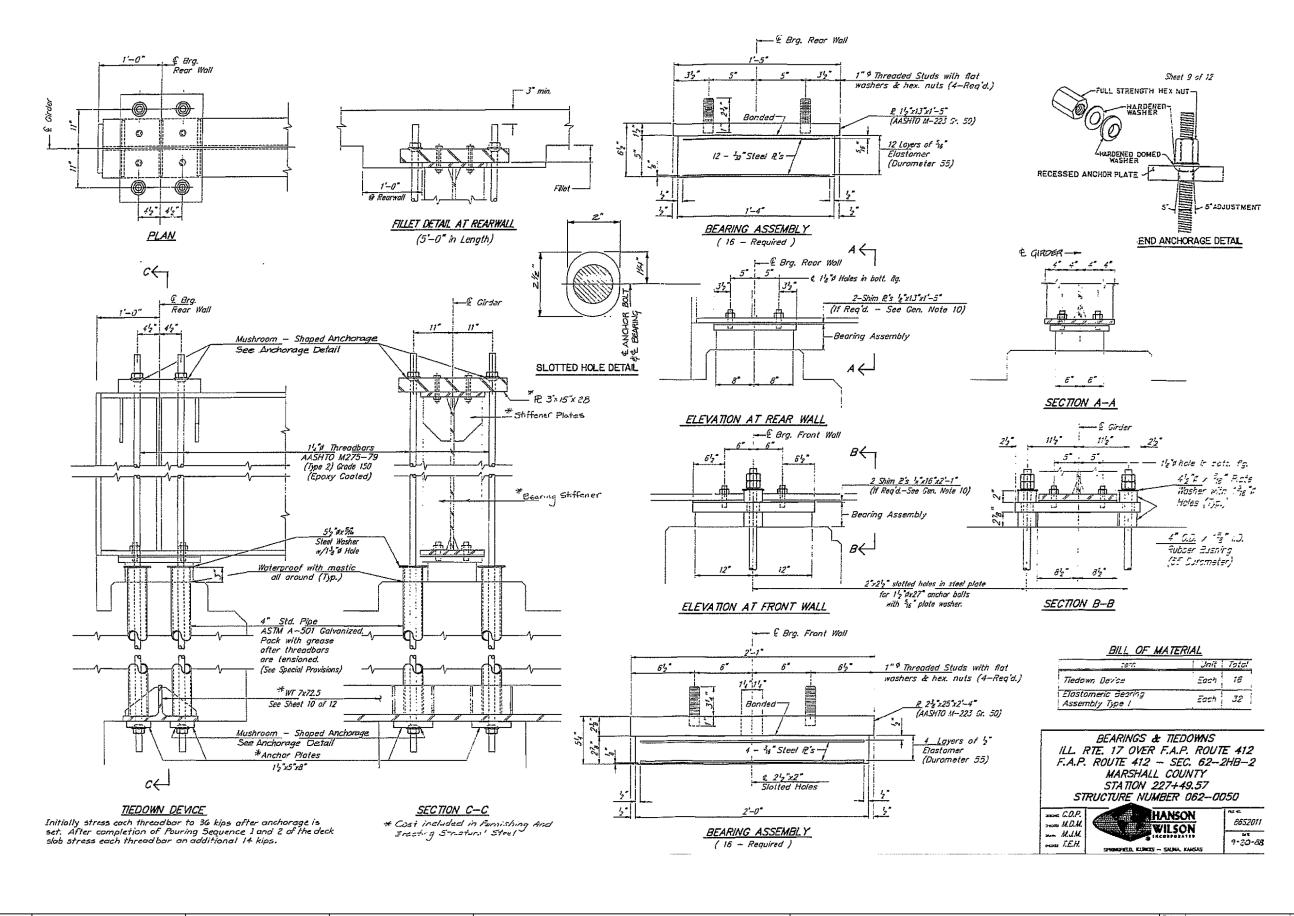
PROFILE GRADE (IL. RTE. 17)

(alang € roadway)

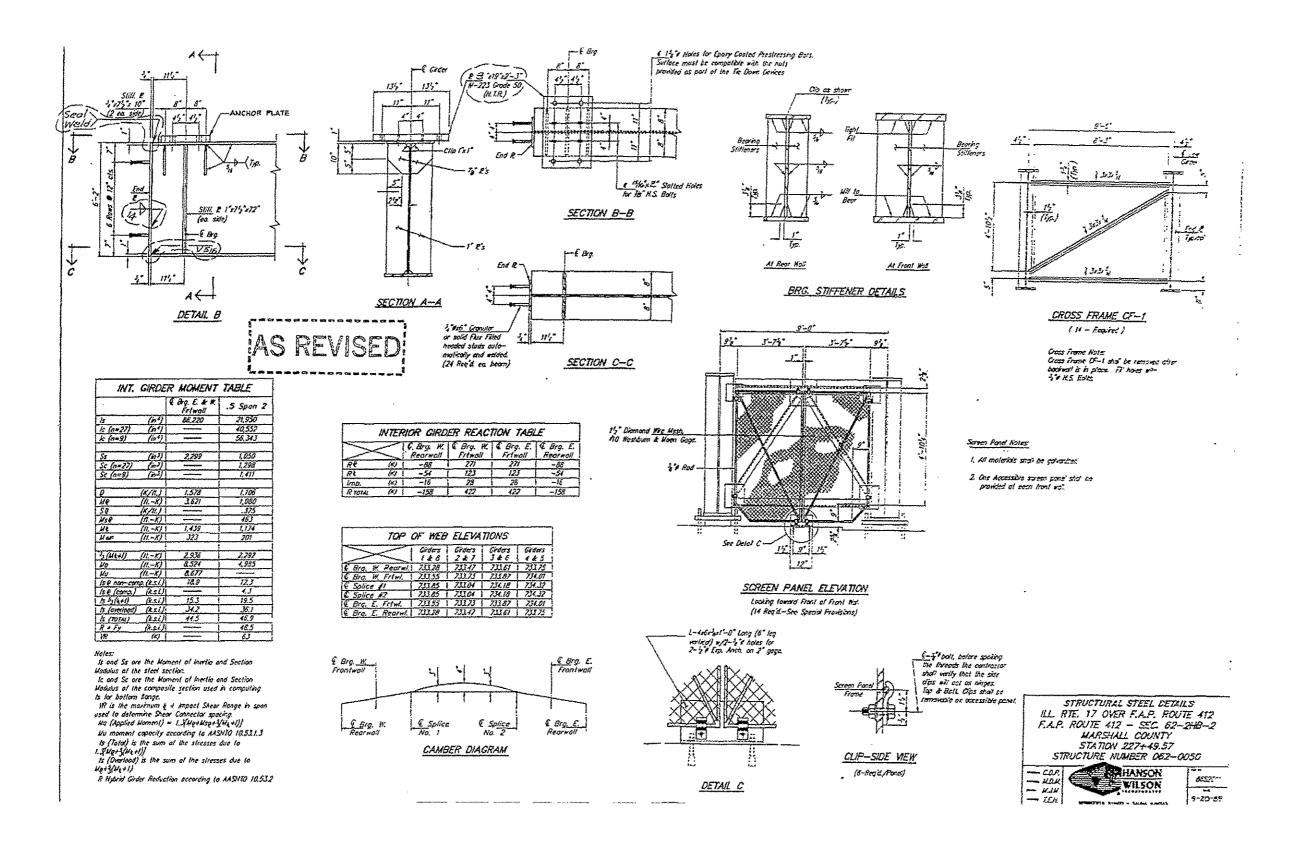
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											CONTRACT	1
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Contract 68B47 bridge painting 2014.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS	LOC	ATION 1 F	RAMING	G PLAN STRUCTUR	E 062-0050	VAR	D4 BRIDGE PAINTING 20	4 VARIOUS	21 7
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- 1	Contract 68B47 bridge painting 2014.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS	LOCA	TION 1 BEA	RINGS /	TIEDOWNS STRUC	TURE 062-0050	VAR	D4 BRIDGE PAINTING 2014	VARIOUS	21 8
		PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION								CONTRACT	NO. 68B47
Ĺ	Default	PLOT DATE = 3/26/2014	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED. AI	D PROJECT	

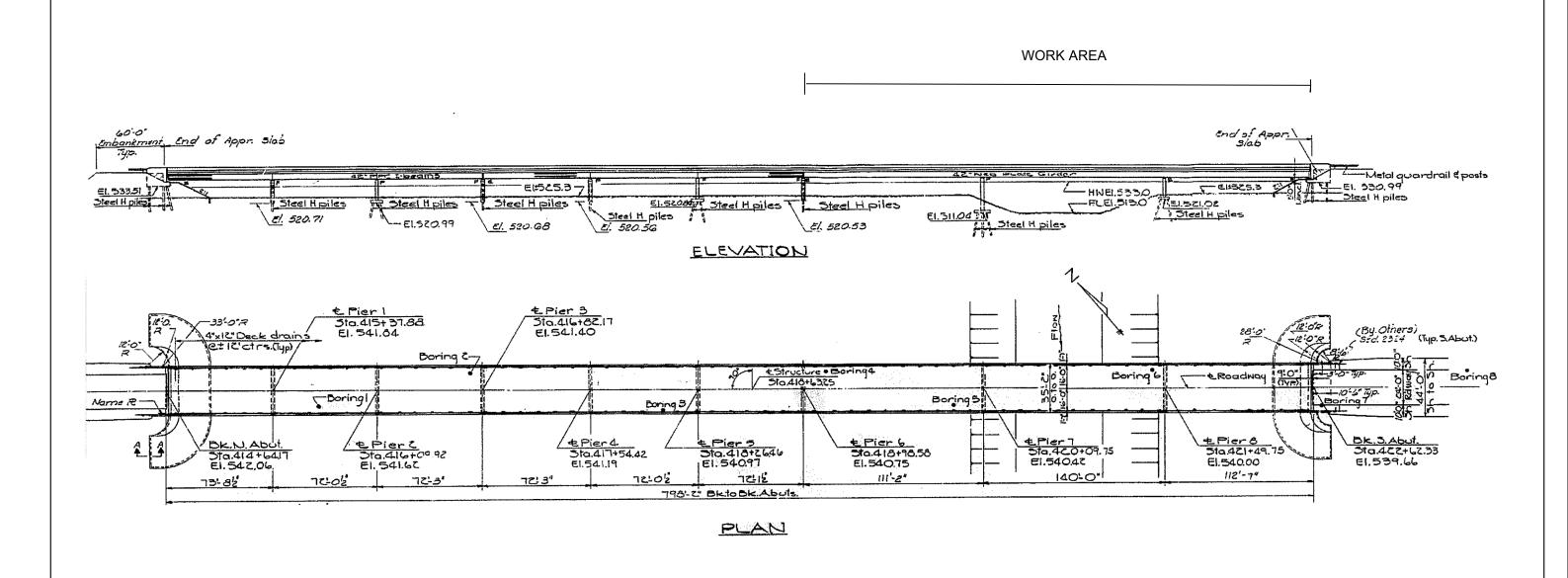


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Contract 68847 bridge pointing 2014.dgn		DRAWN -	REVISED ~
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Default	PLOT DATE • 3/26/2014	DATE -	REVISED ~
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCAT	TION 1	STEEL	DETAILS	STRUCTURE	062-0050
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2014	VARIOUS	21	9
		CONTRACT	NO. 6	8847
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FILE NAME =	USER NAME = keithbr	DESIGNED -	REVISED -			PLAN VIEW	/ LOCAT	INN 2 9	STRUCTURE	029_0050	F.A.	SECTION	COUNTY	TOTAL SHEET
Contract 68B47 bridge painting 2014.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS	PLAN VIEW LOCATION 2 STRUCTURE 029–0050					023-0030	VAR	D4 BRIDGE PAINTING 2014	VARIOUS	21 10
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION										T NO. 68B47
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SECTION

LOCATION 2 FRAMING PLAN STRUCTURE 029-0050

SHEETS STA.

TO STA.

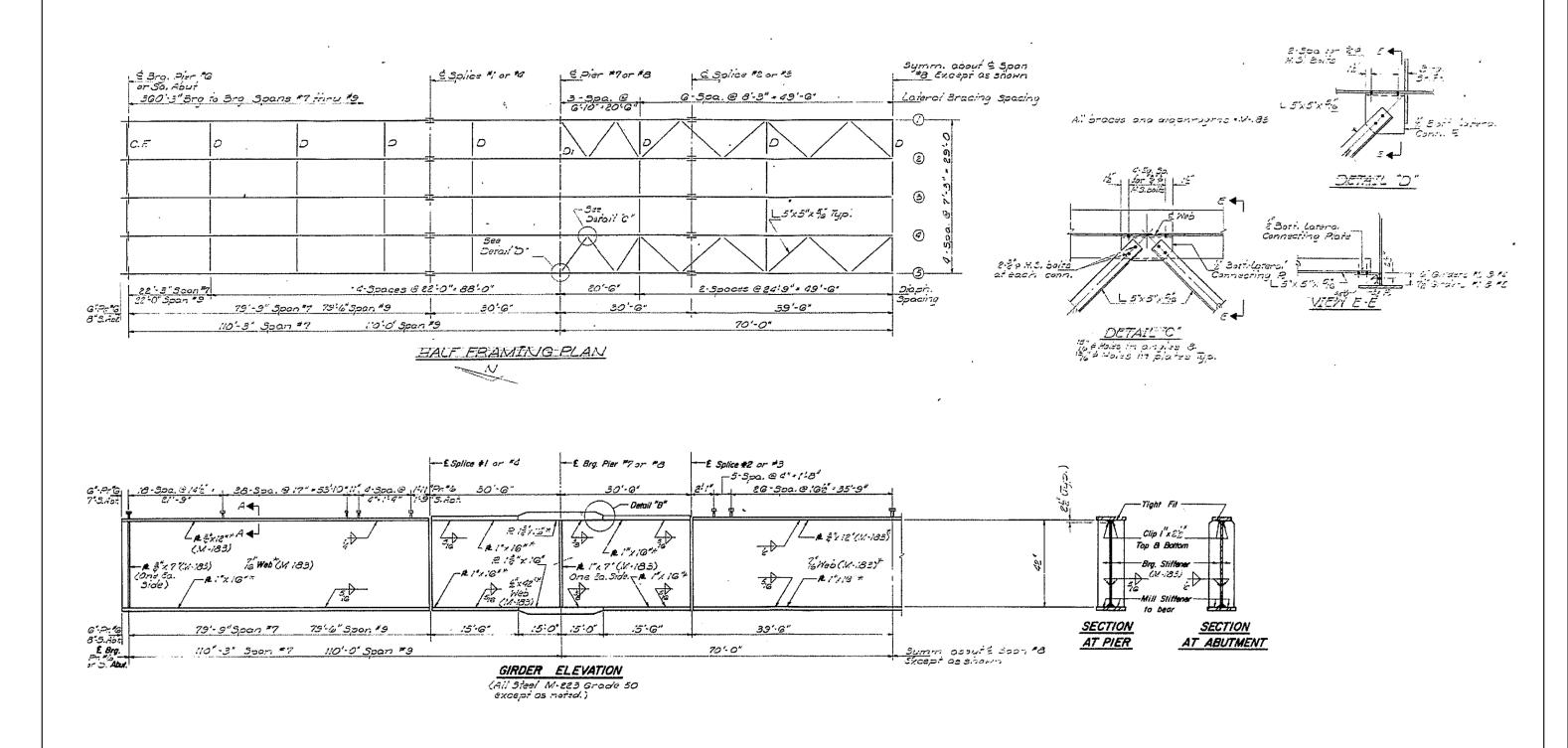
SCALE:

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CONTRACT NO. 68B47

VAR D4 BRIDGE PAINTING 2014 VARIOUS 21 11



STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

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Contract 68B47 bridge painting 2014.do

USER NAME = keithbr

PLOT DATE = 3/26/2014

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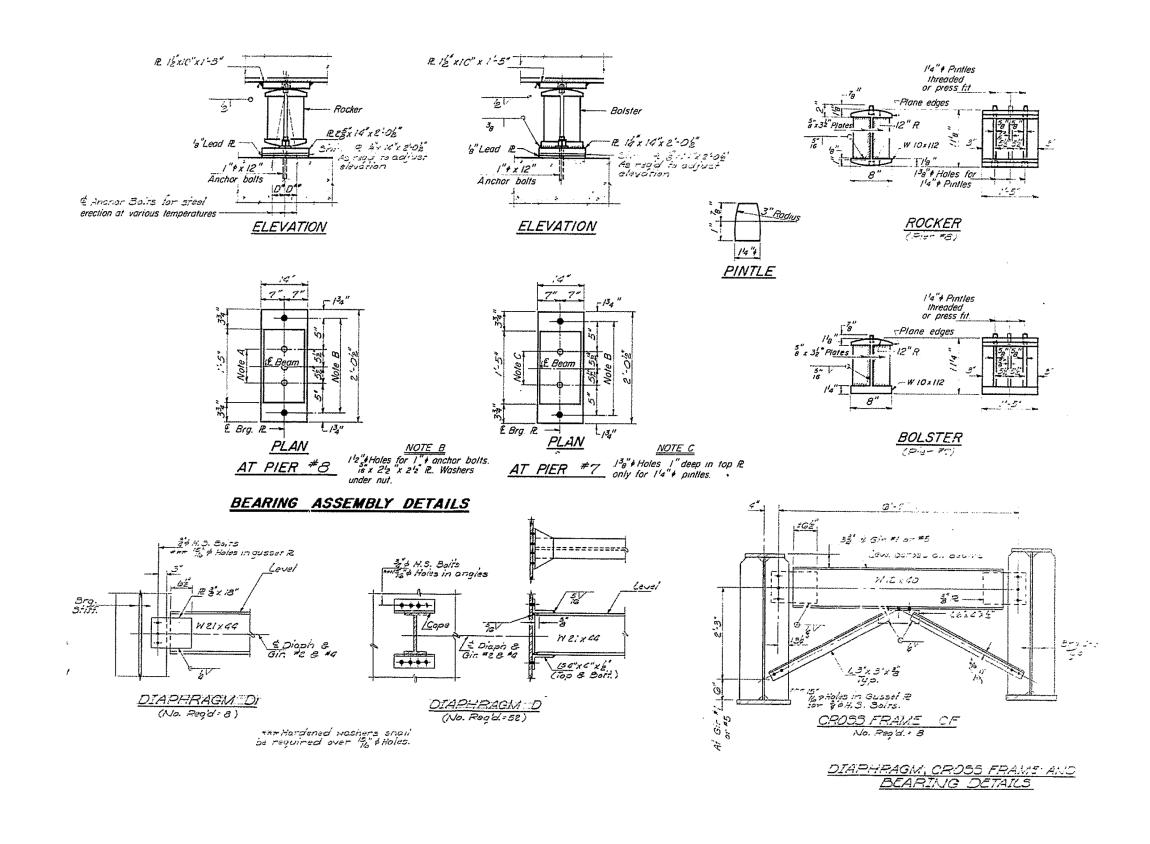
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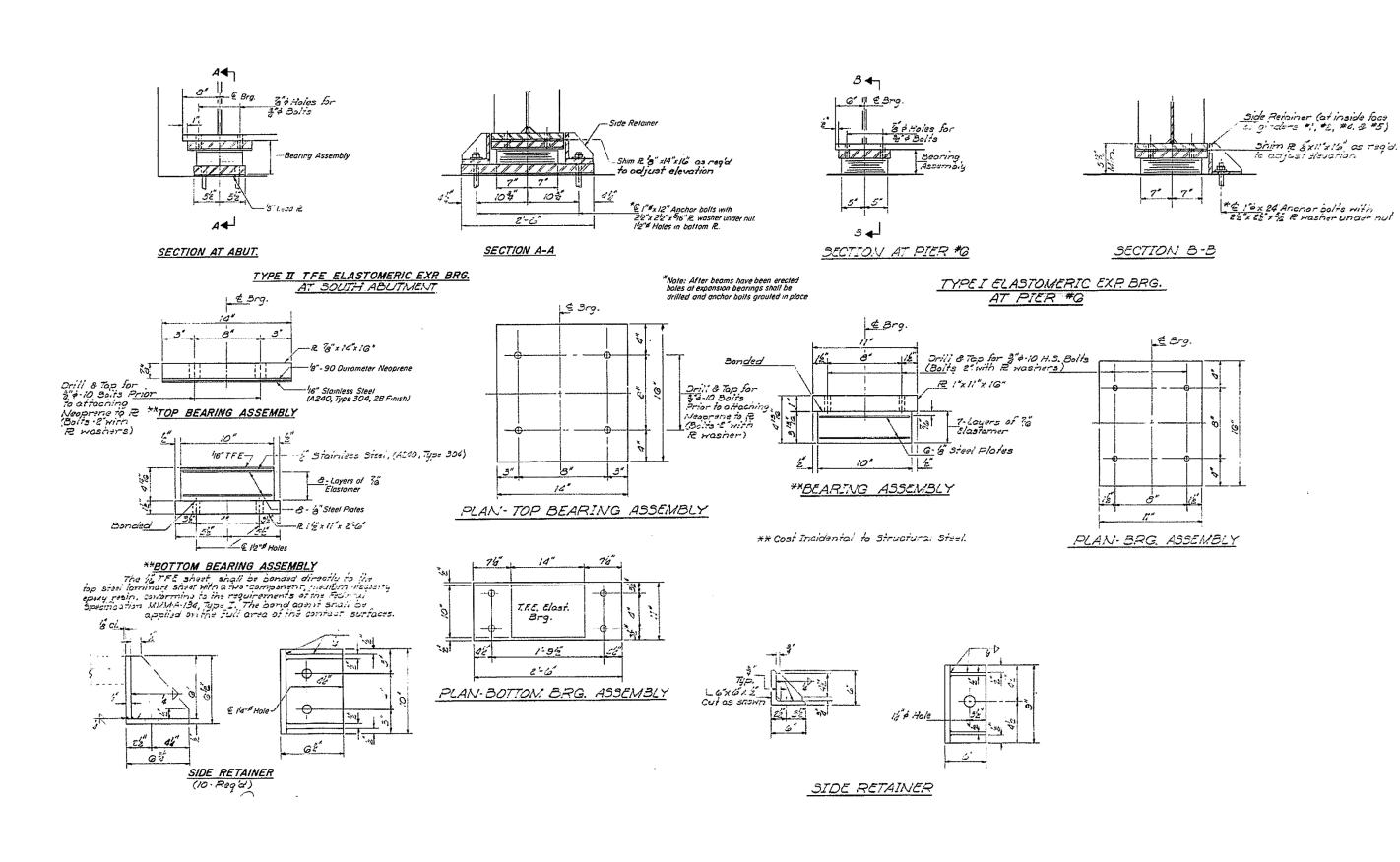
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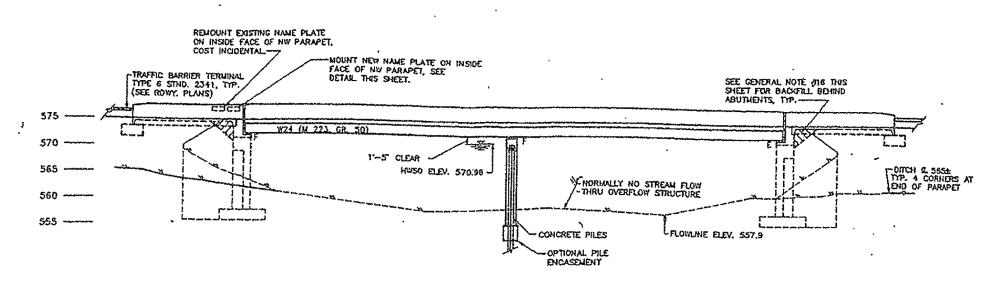
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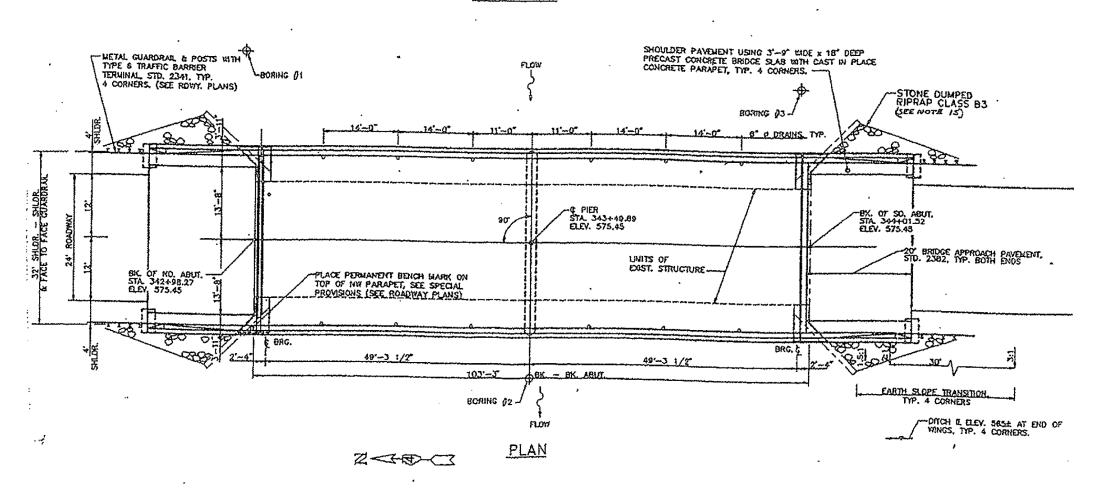
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	PLOT SCALE = 100.0000 '/ in.	CHECKED	REVISED	DEPARTMENT OF TRANSPORTATION		<u> </u>		8B47
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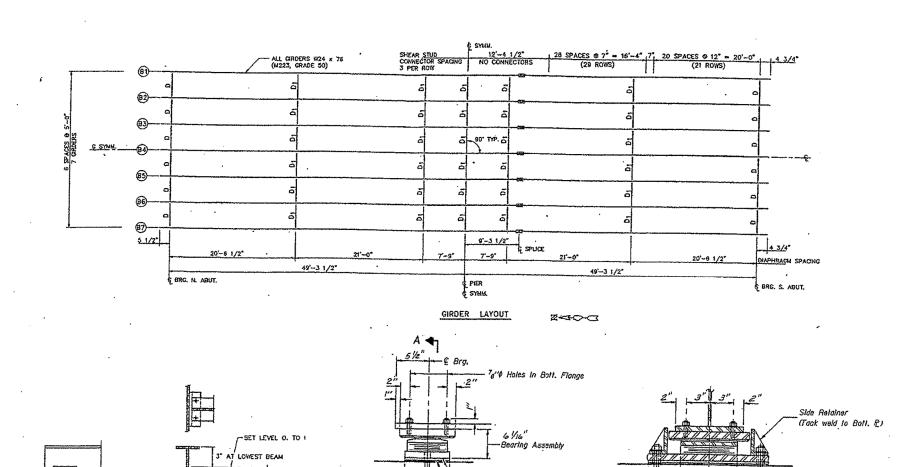
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Contract 68B47 bridge painting 2014.dgm		DRAWN	REVISED	STATE OF ILLINOIS	LOCATION 2 BEARINGS STRUCTURE 029-0050	VAR D4 BRIDGE PAINTING 2014	VARIOUS 21 13
	PLOT SCALE = 100.0000 '/ in.	CHECKED	REVISED	DEPARTMENT OF TRANSPORTATION		'	CONTRACT NO. 68B47
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ELEVATION



FILE NAME =	USER NAME = aubreygs	DESIGNED	REVISED		PLAN	VIFW	LOCATION 3 STRUCTURE 036-00	n <i>22</i>	F.A. SE	ECTION	COUNTY	TOTAL	SHEET NO.
Contract 68B47 bridge painting 2014.dgn		DRAWN	REVISED	STATE OF ILLINOIS	1 27114	*****			VAR D4 BRIDGE	PAINTING 2014	VARIOUS	21	14
	PLOT SCALE = 100.0000 '/ in.	CHECKED	REVISED	DEPARTMENT OF TRANSPORTATION							CONTRACT	NO. 6	3B47
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ELEVATION AT EA ABUT.

(14 Required)

* Q I'' ϕ x I2'' Anchor bolls with $-2'_2{}''$ x $2'_2{}''$ x $5'_3{}''$ Q washer under nut. $I'_2{}''$ ϕ Hales in bottom Q.

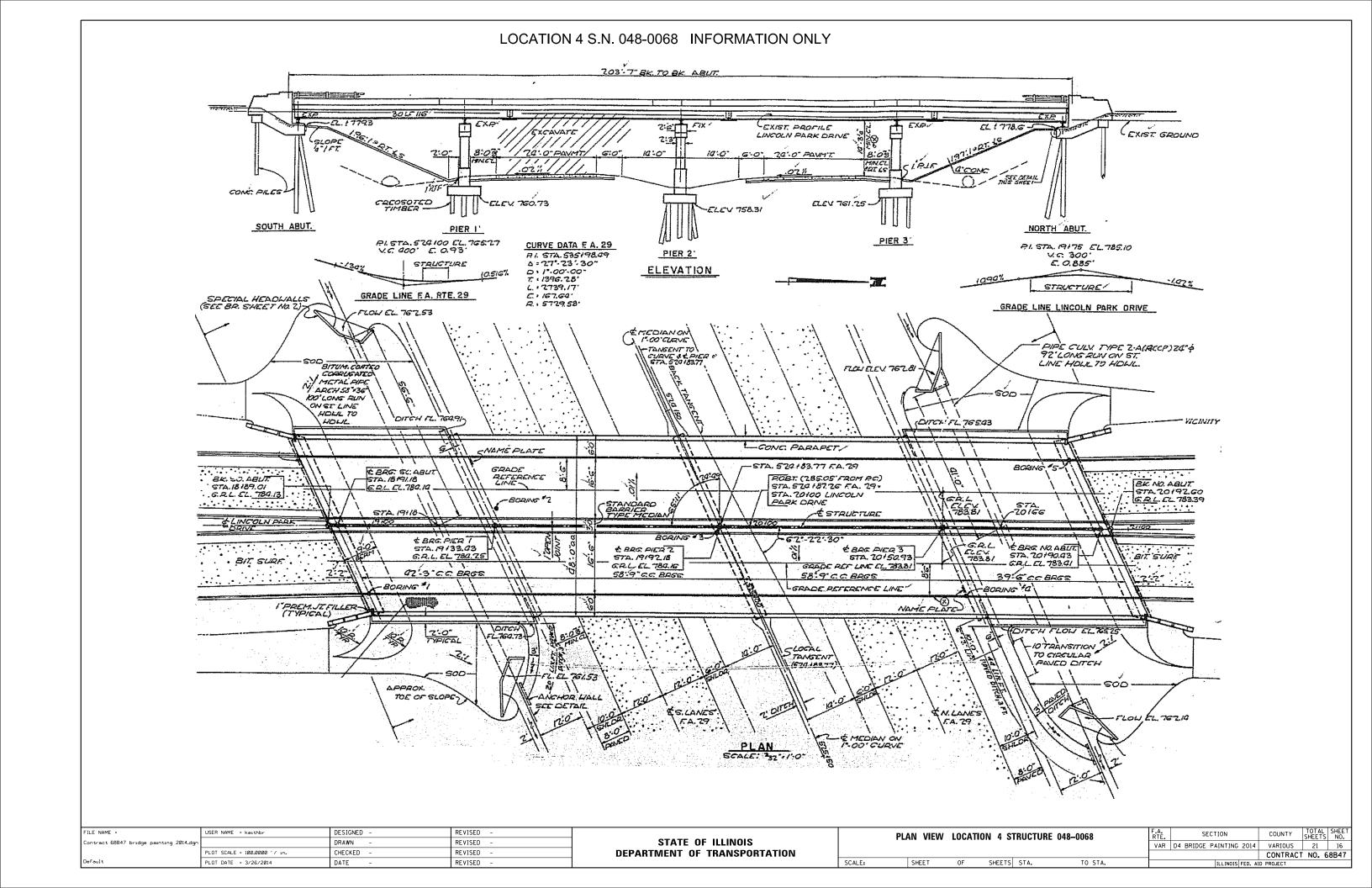
SECTION' A- A

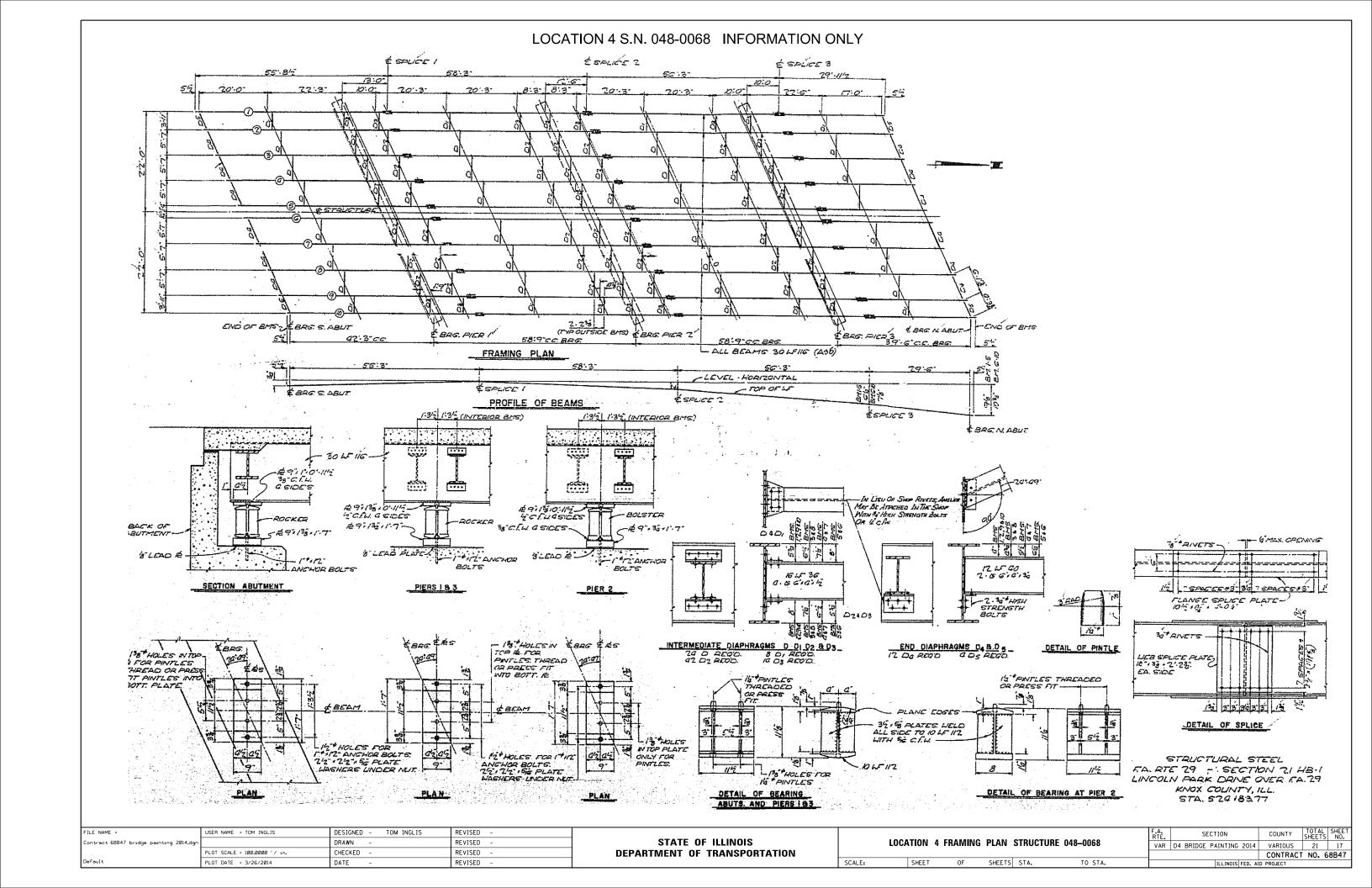
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Contract 68B47 bridge painting 2014.dgn		DRAWN	REVISED	STATE OF ILLINOIS	LOCATION 3 FRAMING PLAN STRUCTURE 036-0022	VAR D4 BRIDGE PAINTING 2014	VARIOUS 21 15
	PLOT SCALE = 100.0000 '/ in.	CHECKED	REVISED	DEPARTMENT OF TRANSPORTATION			CONTRACT NO. 68B4
Default	PLOT DATE = 4/17/2014	DATE	REVISED		SCALE: SHEET OF SHEETS STA TO STA	_ ILLINOIS FED. A	ID PROJECT

W10 x 33

-3/4° H.S. BOLTS 15/16° HOLES

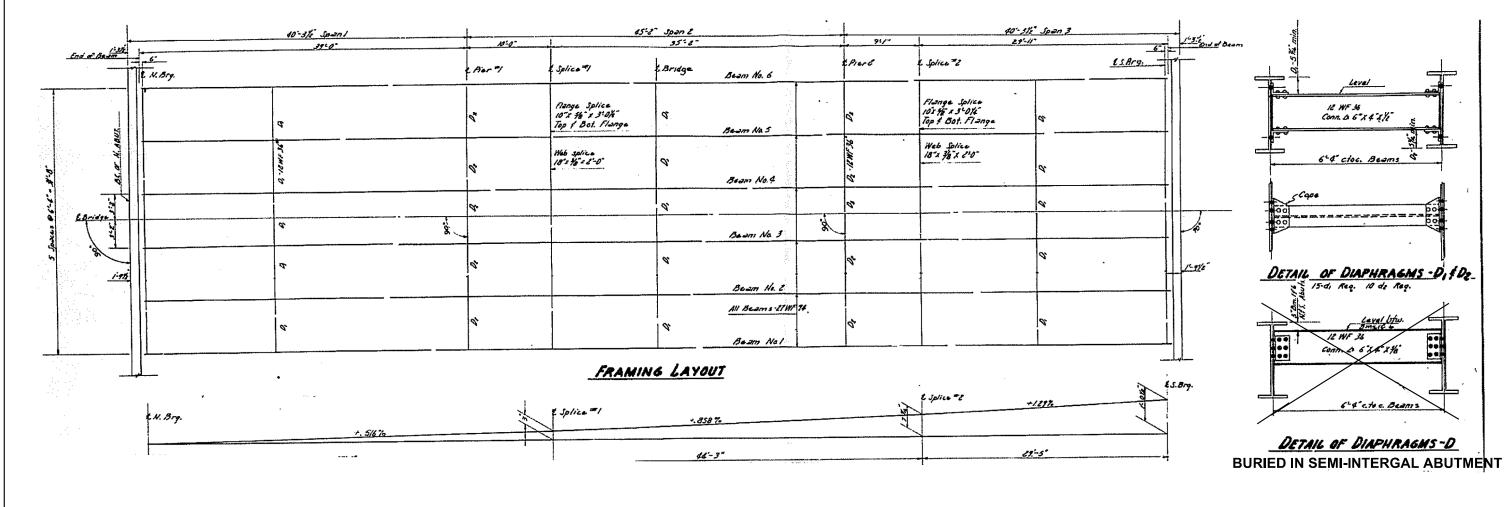
DIAPHRAGMS

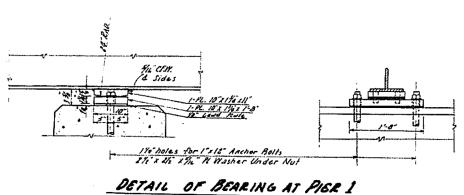


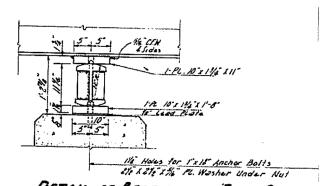


LOCATION 5 S.N. 094-0002 INFORMATION ONLY Existing 27VIF94 (New structure -2'-3" mln. cl. is composite.) . D.H.W. Elev. 620.3 ... E -Streambed -Elev. 603.2-Stone Riprap Class A5 ELEVATION Limits of Existing Structure € Brg. N. Abut. Bk. N. Abut. ⊈ Pler 2 € Pier I € Bry. S. Abul. - Sta. 828+62.91 r Šta. 829+01.42 Sto. 828+61.12 -Sta. 829+85.08 -Sta. 829+46.58 7 Elev. 625.84 Elev. 625.85 Elev. 626.06 Elev. 626,43 Elev. 626.84 Traffic Barrier Terminal Std. 631031 Type 6 typ. Bk. S. Abut. typ. -Sta. 829+86.87 Elev. 626.86 Š © Bridge :: ∫ Temp. Sht. ,0-,9/ "Sta. 829+24.00 - Piling 90° typ. 22, £ F.A.P. Rte. 310. P.G., Name 12 & Stage Const. Line ġ 30' Bridge Appr. Pay't. Std. 420401 typ. Bridge Apr. Shidr. Drain Std. 609006 -🕺 Stone Riprap (N. Appr. only) Class A5 1'-9'2" 38'-6" 45'-2" 1'-912" 38'-6" 125'-9" Back to Back of Abutments PLAN

FILE NAME =	USER NAME = T.INGLIS	DESIGNED - TOM INGLIS	REVISED -		PI	AN VIEW	A TUCA.	TION	5 STR	LICTURE	094_0002	F.A.	SECTION	COUNTY	TOTAL	SHEET
Contract 68B47 bridge painting 2014.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS	PLAN VIEW LOCATION 5 STRUCTURE 094-0002				031-0002	VAR D4 BRIDGE PAINT	D4 BRIDGE PAINTING 2014	VARIOUS	21	18		
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION										CONTRAC	CT NO.	68B47
Default	PLOT DATE = 3/26/2014	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.				TO STA.		ILLINOIS FED. AI					

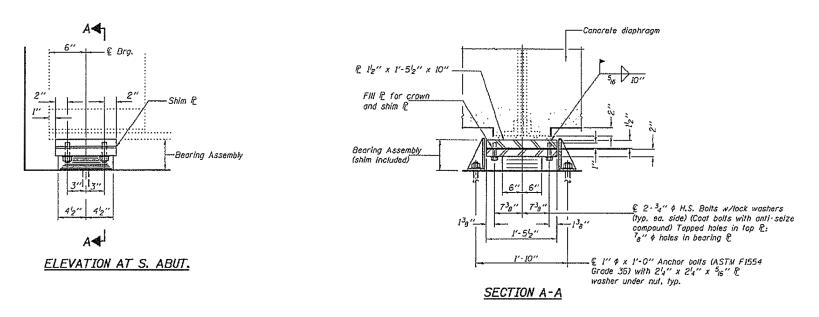




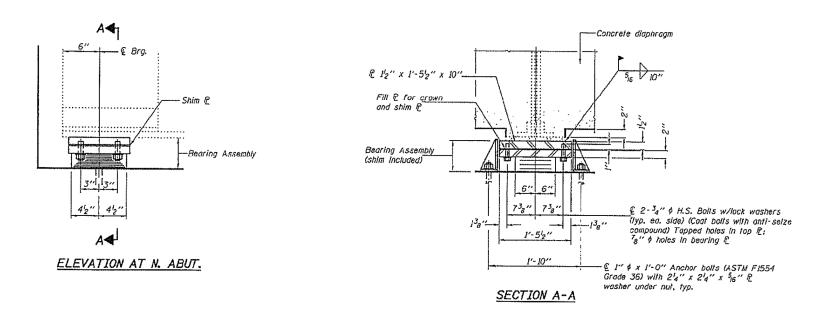


DETAIL OF BEARING AT PIER 2

FILE NAME =	USER NAME = keithbr	DESIGNED - TOM INGLIS	REVISED -								F.A.	SECTION	COUNTY	TOTAL SHEET
Contract 68B47 bridge painting 2014.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS		LOCATION 5	FRAMIN	G PLAN	STRUCTUR	RE 094-0002	VAR [04 BRIDGE PAINTING 2014	VARIOUS	21 19
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION									CONTRACT	T NO. 68B47
Default	PLOT DATE = 3/26/2014	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT	

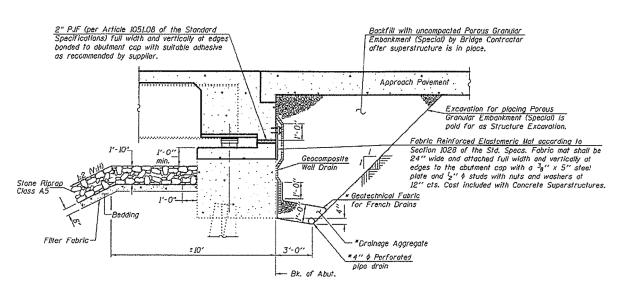


TYPE I ELASTOMERIC EXP. BRG.



TYPE I ELASTOMERIC EXP. BRG.

FILE NAME =	USER NAME = keithbr	DESIGNED - TOM INGLIS	REVISED -								F.A.	SECTION	COUNTY	TOTAL SHEET
Contract 68B47 bridge painting 2014.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS		LOC/	ATION 5	BEARING	S 094-0002		VAR I	04 BRIDGE PAINTING 2014	VARIOUS	21 20
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION									CONTRACT	T NO. 68B47
Default	PLOT DATE = 3/26/2014	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AII	PROJECT	



SECTION THRU SEMI-INTEGRAL ABUTMENT

Included in the cost of Pipe Underdrains for Structures, 4".

Note:
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601!01).

FILE NAME =	USER NAME = Keithbr	DESIGNED -	KENIZED -							
Contract 68B47 bridge painting 2014.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS	LOC	ATION 5	SEMI–INT	EGRAL	ABUTMENT (094-0002
	PLOT SCALE = 100.00000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION						
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