09-18-2015 LETTING ITEM 035

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D6 BDGE PAINTING 2016-1	*	17	1
- SANGAMON & SCOTT	ILLINOIS	CONTRACT NO. 72H88		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
BRIDGE PAINTING

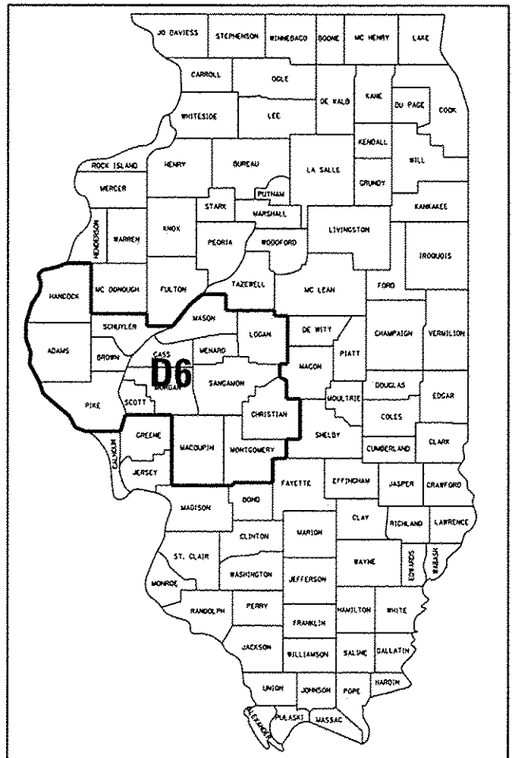
VARIOUS ROUTES
SECTION D6 BDGE PAINTING 2016-1

BRIDGE PAINTING
SANGAMON & SCOTT COUNTIES

C-96-065-15

FOR INDEX OF SHEETS, SEE SHEET NO. 2

D-96-088-15



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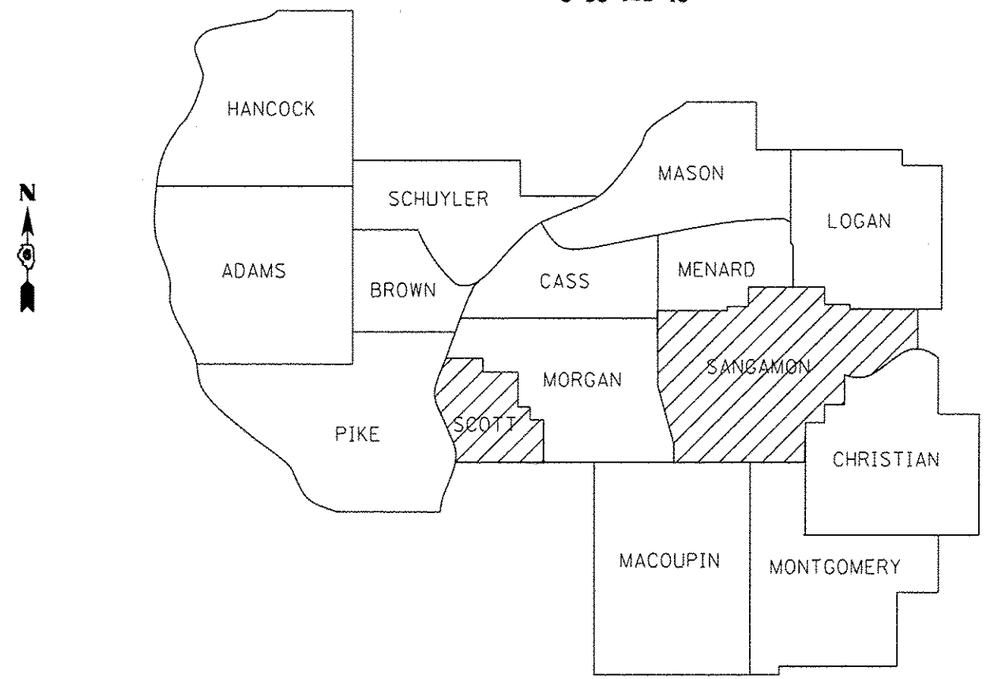

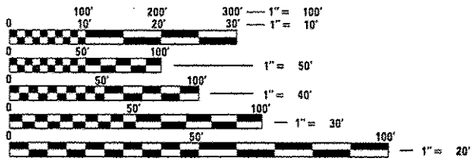

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED July 5 20 15
Roger C. Sutton
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
Aug 14 20 15
John D. Baranzelli P.E. by
ENGINEER OF DESIGN AND ENVIRONMENT
Aug 14 20 15
Omer Osman P.E. by
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

BRIDGE MAINTENANCE ENGINEER – BRANDON DUDLEY (217) 785-9290
BRIDGE INSPECTION ENGINEER – DAVE COPENBARGER (217) 785-5306

GROSS LENGTH = NA
NET LENGTH = NA

CONTRACT NO. 72H88

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

1 COVER SHEET
2 INDEX, STANDARDS, GENERAL NOTES, SIGNATURES, & SUMMARY OF QUANTITIES
3-4 BRIDGE LOCATION MAPS
5-17 EXISTING BRIDGE PLANS (FOR INFORMATION ONLY)

HIGHWAY STANDARDS

701101-04
701106-02
701400-08
701401-09
701901-04

GENERAL NOTES:

1. STRUCTURES TO BE PAINTED SHALL BE AS SPECIFIED ON THE PLAN SHEETS. CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES". THE AREAS TO BE PAINTED ON EACH BRIDGE SHALL BE AS SPECIFIED ON THE PLAN SHEETS. ALL AREAS TO BE PAINTED SHALL SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING PER SSPC SP 10. ALL EXISTING STEEL CLEANED SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 - OZ/E/U. THE COLOR OF THE FINAL FINISH COAT FOR EACH BRIDGE SHALL BE AS SPECIFIED ON THE PLAN SHEETS. THE COLORS SPECIFIED ON THE PLAN SHEETS SHALL CORRESPOND WITH THE COLOR SPECIFICATIONS SHOWN IN THE TABLE ON THIS PAGE.

2 THE USE OF AIR MONITORS WILL BE REQUIRED AT STRUCTURES SPECIFIED ON THE PLAN SHEETS. A MINIMUM OF 2 MONITORS WILL BE REQUIRED AT EACH SPECIFIED BRIDGE TO MONITOR ABRASIVE BLASTING OPERATIONS AT THOSE SITES. SEE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES".

3. THE "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES" PAY ITEMS SHALL BE APPLICABLE AS CALLED OUT IN THE PLAN NOTES FOR EACH INDIVIDUAL STRUCTURE.

4. THE SSPC-QP-1 AND SSPC-QP2 PAINTING CONTRACTOR CERTIFICATIONS WILL BE REQUIRED FOR THESE BRIDGES.

5. CARE SHALL BE TAKEN NOT TO DAMAGE RUBBER BEARING OR JOINT COMPONENTS DURING BLASTING AND CLEANING OPERATIONS. ANY DAMAGE TO THESE COMPONENTS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

6. UPON COMPLETION OF PAINTING OPERATIONS AT EACH LOCATION, THE CONTRACTOR SHALL REMOVE ALL DEBRIS FROM PIER OR ABUTMENT CAPS UPON WHICH PAINTING OPERATIONS TOOK PLACE. FINAL CLEANUP SHALL BE CONSIDERED INCIDENTAL TO THE PAINT PAY ITEM FOR THE RESPECTIVE LOCATION. THE ENGINEER SHALL HAVE THE RIGHT TO WITHOLD PAYMENT UNTIL SATISFACTORY CLEANUP IS ACHIEVED.

COLOR SPECIFICATION TABLE	
COLOR SPECIFIED	COLOR SPECIFICATION
GRAY	MUNSELL 5B 7/1
GREEN	MUNSELL 7.5G 4/8

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
DISTRICT 6

EXAMINED July 6th 20 15
John C Wyanyan
ENGINEER OF OPERATIONS

EXAMINED June 29 20 15
Ron Richardson
ENGINEER OF PROJECT IMPLEMENTATION

EXAMINED July 1 20 15
Jeffrey P. Myers
ENGINEER OF PROGRAM DEVELOPMENT

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE 100% STATE BRIDGE 0014 VARIOUS
67100100	MOBILIZATION	L SUM	1	1
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1	1
X7010410	SPEED DISPLAY TRAILER	CAL MO	2	2
Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1
Z0007102	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 2	L SUM	1	1
Z0007103	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 3	L SUM	1	1
Z0007104	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 4	L SUM	1	1
Z0007105	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 5	L SUM	1	1
Z0007106	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 6	L SUM	1	1
Z0007107	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 7	L SUM	1	1
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1
Z0010502	CLEANING AND PAINTING STEEL BRIDGE NO. 2	L SUM	1	1
Z0010503	CLEANING AND PAINTING STEEL BRIDGE NO. 3	L SUM	1	1
Z0010504	CLEANING AND PAINTING STEEL BRIDGE NO. 4	L SUM	1	1
Z0010505	CLEANING AND PAINTING STEEL BRIDGE NO. 5	L SUM	1	1
Z0010506	CLEANING AND PAINTING STEEL BRIDGE NO. 6	L SUM	1	1
Z0010507	CLEANING AND PAINTING STEEL BRIDGE NO. 7	L SUM	1	1
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, STANDARDS, GENERAL NOTES, SIGNATURES, & SUMMARY OF QUANTITITES

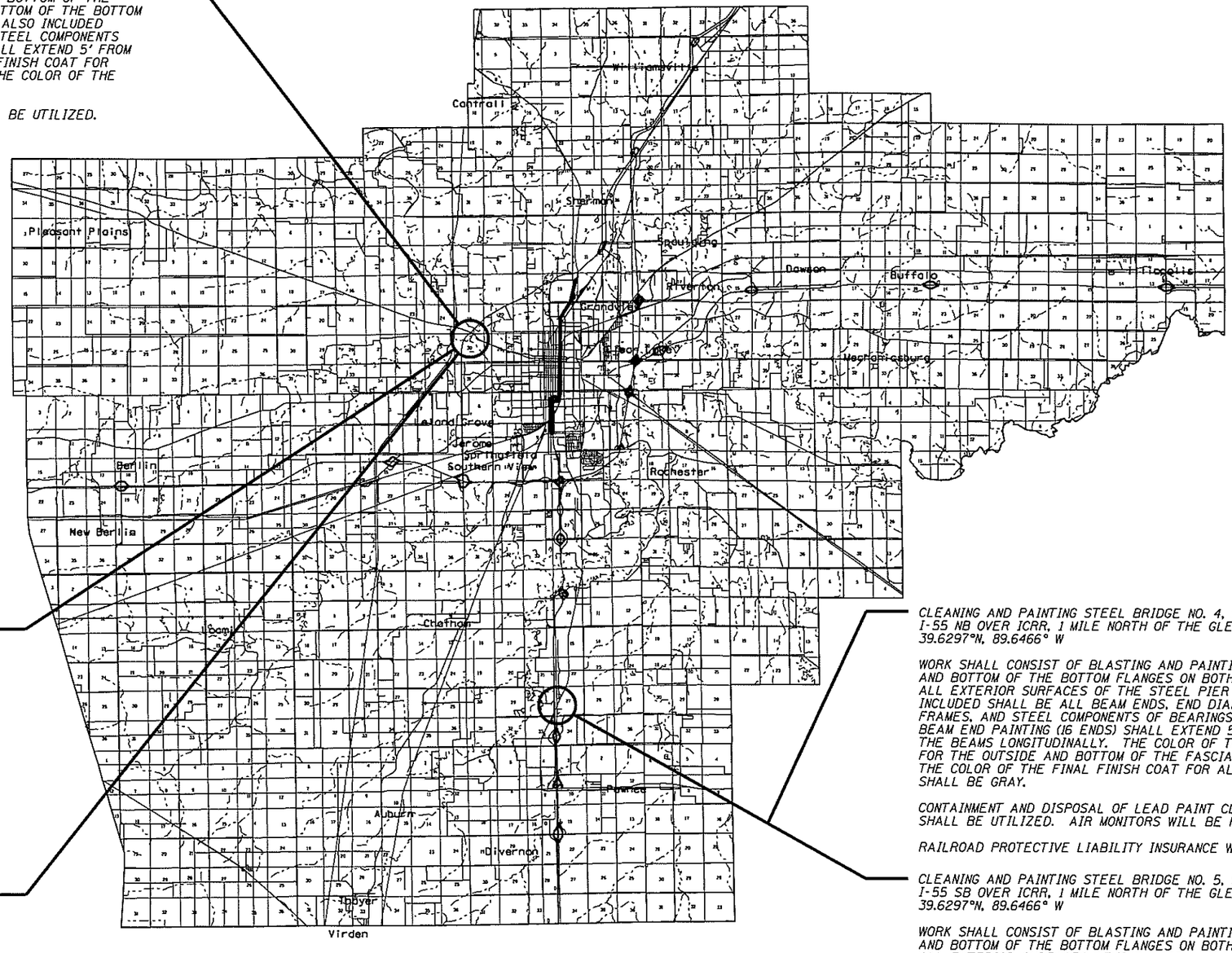
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D6 BDGE PAINTING 2016-1	*	17	2
	* SANGAMON & SCOTT	CONTRACT NO. 72H88		
	ILLINOIS FED. AID PROJECT			

CLEANING AND PAINTING STEEL BRIDGE NO. 1, SN 084-0180
IL 97 OVER SPRING CREEK, 0.1 MILES EAST OF IL 4 IN SPRINGFIELD, 39.8155°N, 89.7001° W

WORK SHALL CONSIST OF BLASTING AND PAINTING THE OUTER HALF AND BOTTOM OF THE BOTTOM FLANGES ON BOTH FASCIA BEAMS AND THE INNER HALF AND BOTTOM OF THE BOTTOM FLANGE ON BOTH BEAMS ADJACENT TO THE LONGITUDINAL DECK JOINT. ALSO INCLUDED SHALL BE ALL BEAM ENDS, END DIAPHRAGMS OR CROSS FRAMES, AND STEEL COMPONENTS OF BEARINGS AT BOTH ABUTMENTS. BEAM END PAINTING (28 ENDS) SHALL EXTEND 5' FROM THE ENDS OF THE BEAMS LONGITUDINALLY. THE COLOR OF THE FINAL FINISH COAT FOR THE OUTSIDE AND BOTTOM OF THE FASCIA BEAMS SHALL BE GREEN. THE COLOR OF THE FINAL FINISH COAT FOR ALL INTERIOR SURFACES SHALL BE GRAY.

CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES SHALL BE UTILIZED. AIR MONITORS WILL BE REQUIRED.



SANGAMON COUNTY

CLEANING AND PAINTING STEEL BRIDGE NO. 2, SN 084-0181
IL 4 SB OVER SPRING CREEK, 0.3 MILES SOUTH OF
IL 97 IN SPRINGFIELD, 39.8129°N, 89.7043° W

WORK SHALL CONSIST OF BLASTING AND PAINTING THE OUTER HALF AND BOTTOM OF THE BOTTOM FLANGES ON BOTH FASCIA BEAMS. ALSO INCLUDED SHALL BE ALL BEAM ENDS, END DIAPHRAGMS OR CROSS FRAMES, AND STEEL COMPONENTS OF BEARINGS AT BOTH ABUTMENTS. BEAM END PAINTING (12 ENDS) SHALL EXTEND 5' FROM THE ENDS OF THE BEAMS LONGITUDINALLY. THE COLOR OF THE FINAL FINISH COAT FOR THE OUTSIDE AND BOTTOM OF THE FASCIA BEAMS SHALL BE GREEN. THE COLOR OF THE FINAL FINISH COAT FOR ALL INTERIOR SURFACES SHALL BE GRAY.

CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES SHALL BE UTILIZED. AIR MONITORS WILL BE REQUIRED.

CLEANING AND PAINTING STEEL BRIDGE NO. 3, SN 084-0182
IL 4 NB OVER SPRING CREEK, 0.3 MILES SOUTH OF
IL 97 IN SPRINGFIELD, 39.8129°N, 89.7043° W

WORK SHALL CONSIST OF BLASTING AND PAINTING THE OUTER HALF AND BOTTOM OF THE BOTTOM FLANGES ON BOTH FASCIA BEAMS. ALSO INCLUDED SHALL BE ALL BEAM ENDS, END DIAPHRAGMS OR CROSS FRAMES, AND STEEL COMPONENTS OF BEARINGS AT BOTH ABUTMENTS. BEAM END PAINTING (12 ENDS) SHALL EXTEND 5' FROM THE ENDS OF THE BEAMS LONGITUDINALLY. THE COLOR OF THE FINAL FINISH COAT FOR THE OUTSIDE AND BOTTOM OF THE FASCIA BEAMS SHALL BE GREEN. THE COLOR OF THE FINAL FINISH COAT FOR ALL INTERIOR SURFACES SHALL BE GRAY.

CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES SHALL BE UTILIZED. AIR MONITORS WILL BE REQUIRED.

CLEANING AND PAINTING STEEL BRIDGE NO. 4, SN 084-0112
I-55 NB OVER ICRR, 1 MILE NORTH OF THE GLENARM INTERCHANGE,
39.6297°N, 89.6466° W

WORK SHALL CONSIST OF BLASTING AND PAINTING THE OUTER HALF AND BOTTOM OF THE BOTTOM FLANGES ON BOTH FASCIA BEAMS AND ALL EXTERIOR SURFACES OF THE STEEL PIER CAP AT PIER 2. ALSO INCLUDED SHALL BE ALL BEAM ENDS, END DIAPHRAGMS OR CROSS FRAMES, AND STEEL COMPONENTS OF BEARINGS AT PIERS 1 AND 3. BEAM END PAINTING (16 ENDS) SHALL EXTEND 5' FROM THE ENDS OF THE BEAMS LONGITUDINALLY. THE COLOR OF THE FINAL FINISH COAT FOR THE OUTSIDE AND BOTTOM OF THE FASCIA BEAMS SHALL BE GREEN. THE COLOR OF THE FINAL FINISH COAT FOR ALL INTERIOR SURFACES SHALL BE GRAY.

CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES SHALL BE UTILIZED. AIR MONITORS WILL BE REQUIRED.

RAILROAD PROTECTIVE LIABILITY INSURANCE WILL BE REQUIRED.

CLEANING AND PAINTING STEEL BRIDGE NO. 5, SN 084-0113
I-55 SB OVER ICRR, 1 MILE NORTH OF THE GLENARM INTERCHANGE,
39.6297°N, 89.6466° W

WORK SHALL CONSIST OF BLASTING AND PAINTING THE OUTER HALF AND BOTTOM OF THE BOTTOM FLANGES ON BOTH FASCIA BEAMS AND ALL EXTERIOR SURFACES OF THE STEEL PIER CAP AT PIER 2. ALSO INCLUDED SHALL BE ALL BEAM ENDS, END DIAPHRAGMS OR CROSS FRAMES, AND STEEL COMPONENTS OF BEARINGS AT PIERS 1 AND 3. BEAM END PAINTING (16 ENDS) SHALL EXTEND 5' FROM THE ENDS OF THE BEAMS LONGITUDINALLY. THE COLOR OF THE FINAL FINISH COAT FOR THE OUTSIDE AND BOTTOM OF THE FASCIA BEAMS SHALL BE GREEN. THE COLOR OF THE FINAL FINISH COAT FOR ALL INTERIOR SURFACES SHALL BE GRAY.

CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES SHALL BE UTILIZED. AIR MONITORS WILL BE REQUIRED.

RAILROAD PROTECTIVE LIABILITY INSURANCE WILL BE REQUIRED.

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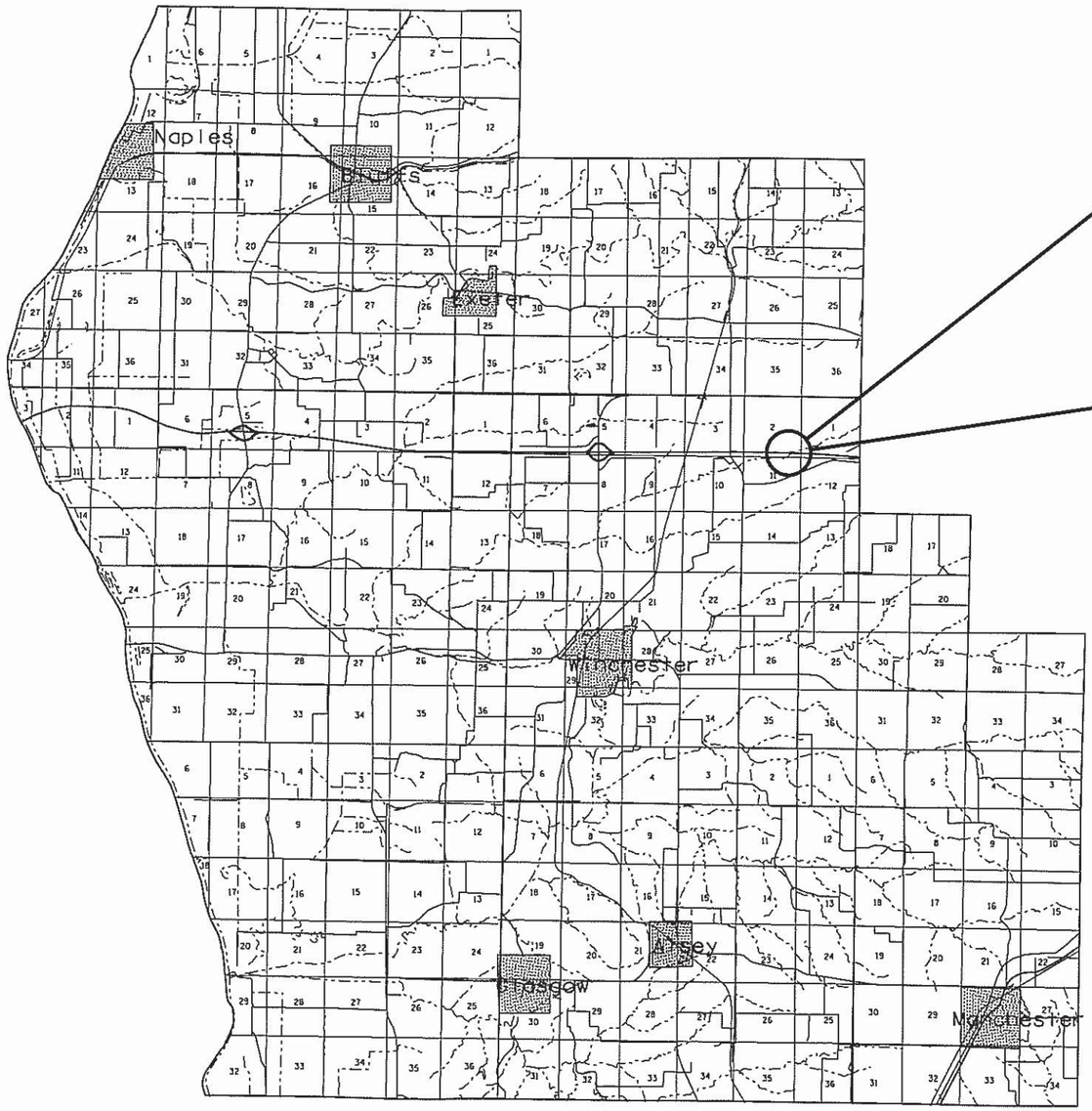
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SANGAMON COUNTY LOCATION MAP

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D6 BDGE PAINTING 2016-1	*	17	3
	* SANGAMON & SCOTT	CONTRACT NO. 72H88		
	ILLINOIS FED. AID PROJECT			



SCOTT COUNTY

CLEANING AND PAINTING STEEL BRIDGE NO. 6, SN 086-0023
I-72 EB OVER WALNUT CREEK, 1.2 MILES WEST OF THE SANGAMON COUNTY LINE,
39.6812°N, 90.3952° W

WORK SHALL CONSIST OF BLASTING AND PAINTING THE OUTER HALF AND BOTTOM OF THE BOTTOM FLANGES ON BOTH FASCIA BEAMS. ALSO INCLUDED SHALL BE ALL BEAM ENDS, END DIAPHRAGMS OR CROSS FRAMES, AND STEEL COMPONENTS OF BEARINGS AT BOTH ABUTMENTS. BEAM END PAINTING (14 ENDS) SHALL EXTEND 5' FROM THE ENDS OF THE BEAMS LONGITUDINALLY. THE COLOR OF THE FINAL FINISH COAT FOR THE OUTSIDE AND BOTTOM OF THE FASCIA BEAMS SHALL BE GREEN. THE COLOR OF THE FINAL FINISH COAT FOR ALL INTERIOR SURFACES SHALL BE GRAY.

CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES SHALL BE UTILIZED. AIR MONITORS WILL NOT BE REQUIRED.

CLEANING AND PAINTING STEEL BRIDGE NO. 7, SN 086-0024
I-72 WB OVER WALNUT CREEK, 1.2 MILES WEST OF THE SANGAMON COUNTY LINE,
39.6812°N, 90.3952° W

WORK SHALL CONSIST OF BLASTING AND PAINTING THE OUTER HALF AND BOTTOM OF THE BOTTOM FLANGES ON BOTH FASCIA BEAMS. ALSO INCLUDED SHALL BE ALL BEAM ENDS, END DIAPHRAGMS OR CROSS FRAMES, AND STEEL COMPONENTS OF BEARINGS AT BOTH ABUTMENTS. BEAM END PAINTING (14 ENDS) SHALL EXTEND 5' FROM THE ENDS OF THE BEAMS LONGITUDINALLY. THE COLOR OF THE FINAL FINISH COAT FOR THE OUTSIDE AND BOTTOM OF THE FASCIA BEAMS SHALL BE GREEN. THE COLOR OF THE FINAL FINISH COAT FOR ALL INTERIOR SURFACES SHALL BE GRAY.

CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES SHALL BE UTILIZED. AIR MONITORS WILL NOT BE REQUIRED.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

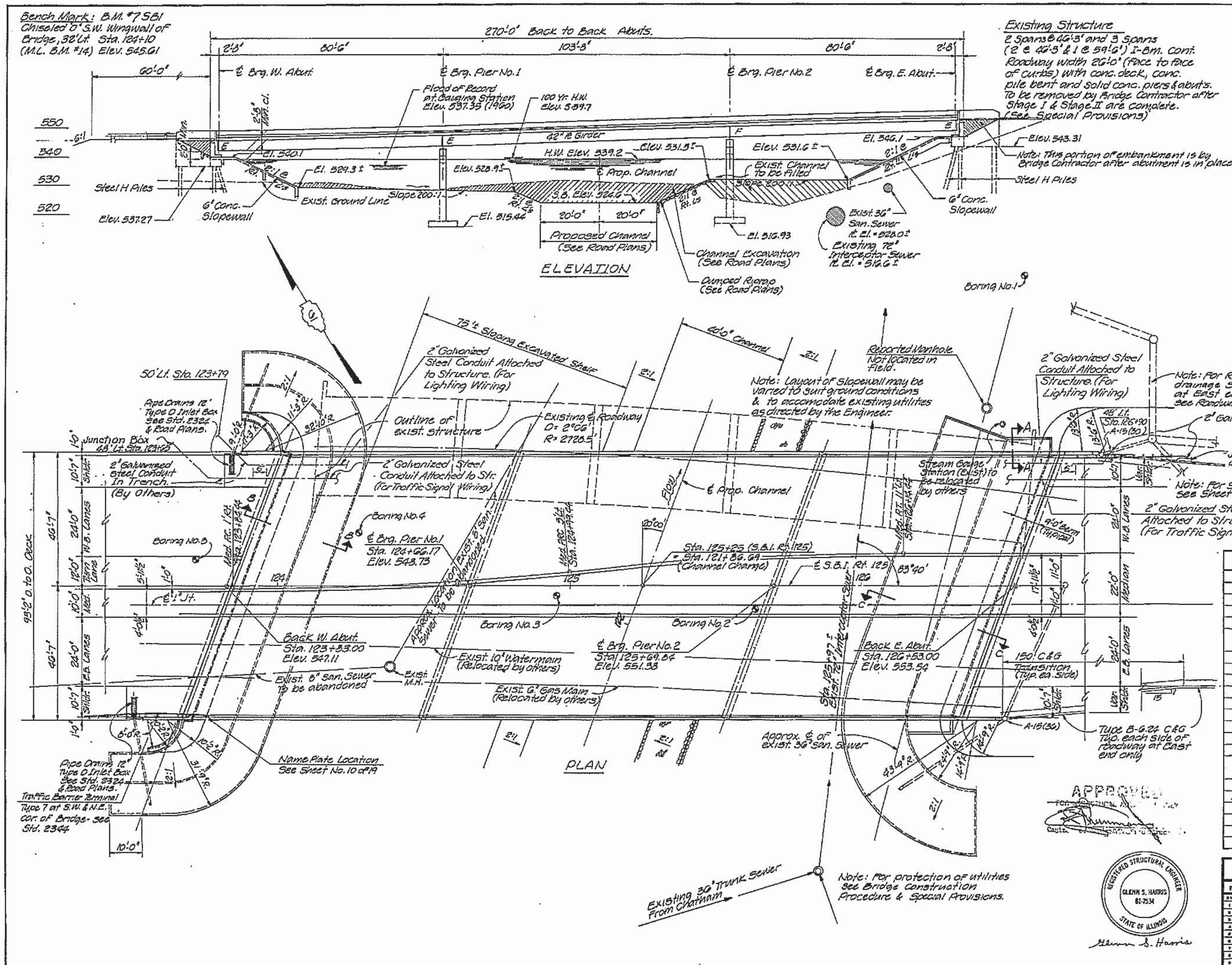
SCOTT COUNTY LOCATION MAP

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D6 BDGE PAINTING 2016-1	*	17	4
	* SANGAMON & SCOTT	CONTRACT NO. 72H88		
	ILLINOIS FED. AID PROJECT			

Sheet No. 1 of 19 Sheets

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A-67	S.R.-1 S(B-1)	SANGAMON	110	47
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		



Existing Structure
2 Spans @ 46'-3" and 3 Spans (2 @ 46'-3" & 1 @ 59'-6") I-Bm. Cont. Roadway width 26'-0" (Face to face of curbs) with conc. deck, conc. pile bent and solid conc. piers & abut's. To be removed by Bridge Contractor after Stage I & Stage II are complete. (See Special Provisions)

STA. 125+2500
BUILT 198 BY
STATE OF ILLINOIS
F.A. RT. 67 SEC. S(B-1)
F.A. PROJECT F-67-(25)
LOADING HS-20
STR. NO. ⊙

LETTERING FOR NAMEPLATE
(See Std. 2113)

⊙ Structure No. to be supplied by the District.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPERSTR.	SUBSTR.	TOTAL
Removal of Existing Structures	Each	—	1	1
Rock Excavation for Structures	Cu.Yd.	—	125	125
Class X Concrete	Cu.Yd.	750.8	707.2	1458
Structural Steel	Lump Sum	1	—	1
Furnishing and Erecting Steel Railing (Special)	Lin. Ft.	266	—	266
Reinforcement Bars	Pound	66,840	56,920	123,760
Reinforcement Bars (Epoxy Coated)	Pound	120,490	—	120,490
Steel Piles HP8x36	Lin. Ft.	—	857	857
Test Pile Steel HP8x36	Each	—	3	3
Name Plates	Each	1	—	1
Slope wall 6 Inch	Sq.Yd.	—	1228	1228
Neoprene Expansion Joint 2½"	Lin. Ft.	198	—	198
Stud Shear Connectors	Each	6846	—	6846
Protective Coat	Sq.Yd.	2999		2999
Galv. Steel Conduit attached to Structure (2"φ)	Lin.Ft.			564
Floor Drains	Each	86	—	86
Structure Excavation	Cu.Yds.	—	1705	1705

GENERAL PLAN AND ELEVATION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

S.B.I. 125 OVER SPRING CREEK
F.A.67 SECTION-S(B-1) PROJ.F-67(25)
STA.125+18.00 (S.B.I. 125) SANGAMON CO.

HOMER L. CHASTAIN & ASSOCIATES
CONSULTING ENGINEERS
DECATUR, ILLINOIS

REVISIONS		
NO.	DATE	INITIALS
1	11/9/79	JCH
2	3/80	RWG

DRAWN BY JCH DATE 11-77
CHECKED BY GSH DATE 3-78
BOOK NUMBER
PROJECT NO. 2250-20
SHEET NO. 47

REGISTERED STRUCTURAL ENGINEER GLENN S. HARRIS 81-2534 STATE OF ILLINOIS

Glenn S. Harris

Rev. 10-31-80

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

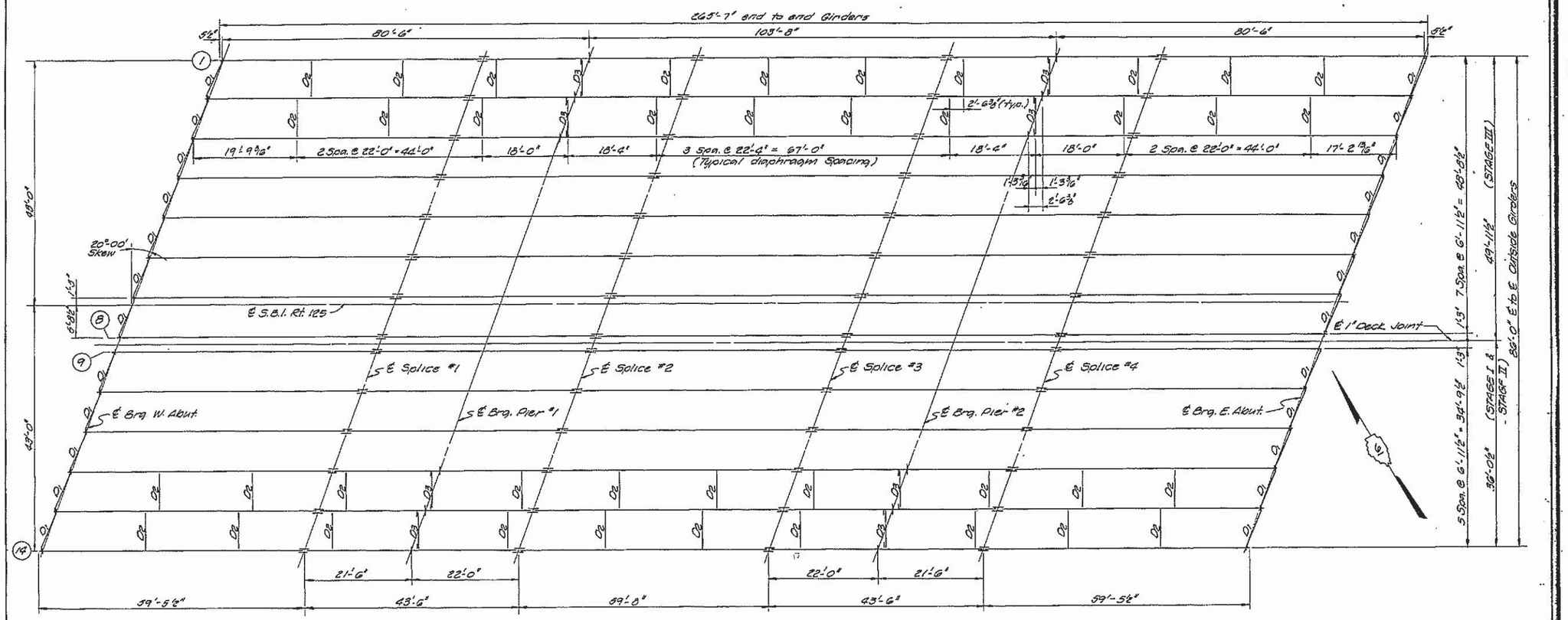
EXISTING PLANS SN 084-0180
(FOR INFORMATION ONLY)

SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D6 BDGE PAINTING 2016-1	•	17	5
	• SANGAMON & SCOTT	CONTRACT NO. 72H88		
	ILLINOIS FED. AID PROJECT			

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA-67	SB-1 2B-1	SANGAMON	17	5B
FED. ROAD DIST. NO.		ILLINOIS	PROJECT	

Sheet No. 12 of 19 Sheets



FRAMING PLAN

All end diaphragms to be W12x40 - D1
All diaphragms at Piers to be W33x118 - D3
All other diaphragms to be W16x36 - D2
See Sheet No. 14 for Top of Web Elevations.

STRUCTURAL STEEL FRAMING

REVISIONS		
NO.	DATE	REMARKS
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

S.B.I. 125 OVER SPRING CREEK
F.A. 67 SECTION 3(B-1) PROJ.
STA. 124+18.00 (S.B.I. 125) SANGAMON CO.

HOMER L. CHASTAIN & ASSOCIATES
CONSULTING ENGINEERS
DECATUR, ILLINOIS

DRAWN BY: RM DATE: 10/15
CHECKED BY: GSH DATE: 10/15
BOOK NUMBER:
PROJECT NO.: 2250-20
SHEET NO.: 5B

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

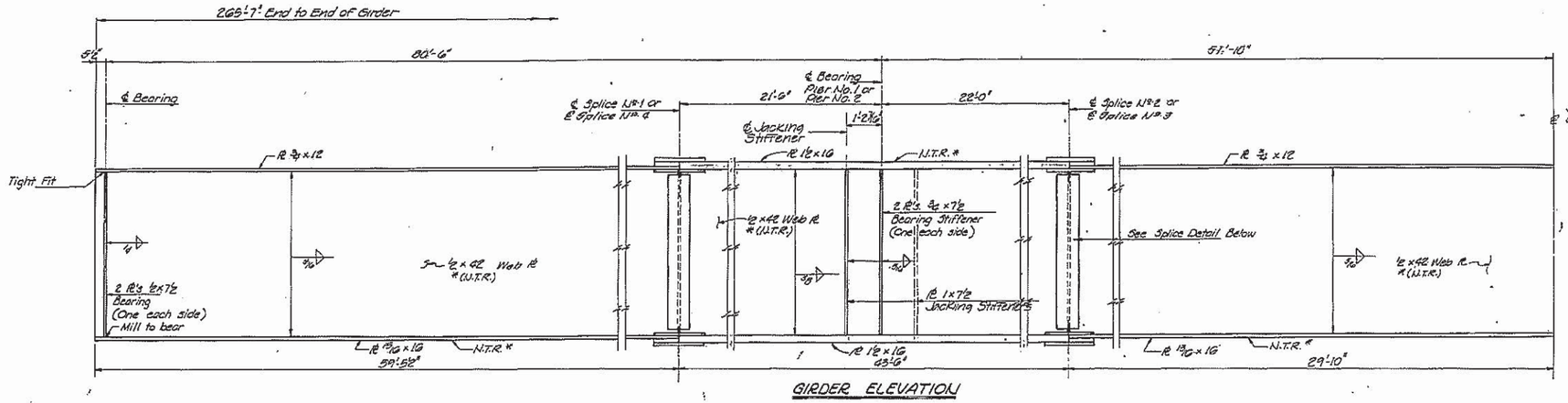
EXISTING PLANS SN 084-0180
(FOR INFORMATION ONLY)

SCALE: | SHEET OF SHEETS | STA. | TO STA.

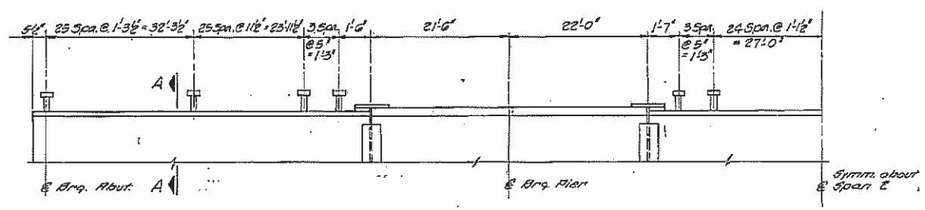
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	06 BDGE PAINTING 2016-1	•	17	6
	• SANGAMON & SCOTT	CONTRACT NO. 72H88		
	ILLINOIS	FED. AID PROJECT		

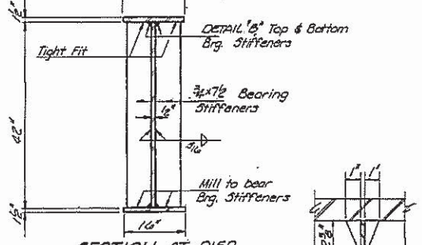
Sheet No. 13 of 19 Sheets

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.-67	S.B.-1 28-1	SANGAMON	110	59
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		

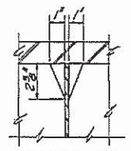


GIRDER ELEVATION

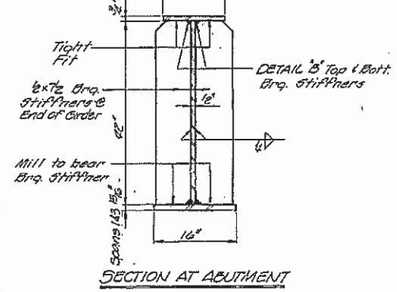




SECTION AT PIER

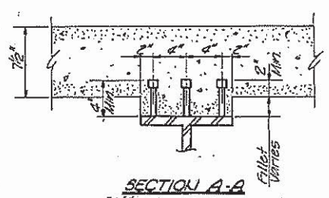


DETAIL "B" (Clipping detail)



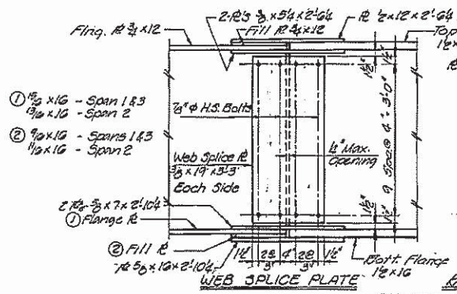
SECTION AT ABUTMENT

SHEAR CONNECTOR SPACING
(489 stud shear connectors reqd. ea. girder)

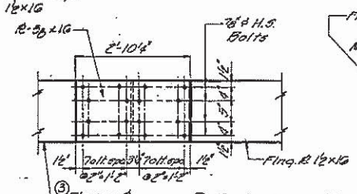


SECTION A-B

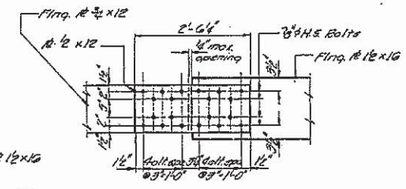
⅞"ø CR 1020 steel, granular or solid, flux-filled, headed studs. Automatically end welded. 6846 studs required.



WEB SPLICE PLATE



BOTT. FLANGE SPLICE PLATE



TOP FLANGE SPLICE PLATE

SPLICE DETAILS

* Note:
The main load carrying member components subject to the Supplemental Requirements for Notch Toughness (Zone 2) are the flanges, webs and splice plates of the steel girders.

STRUCTURAL STEEL

REVISIONS		
No.	DATE	INITIALS
1.		
2.		
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

S.B.I. 125 - OVER SPRING CREEK
F.A. 67 SECTION S(S-1) PROJ.
STA. 125+18.00 (S.B.I. 125) SANGAMON CO.

HOMER L. CHASTAIN & ASSOCIATES
CONSULTING ENGINEERS
DECATUR, ILLINOIS

DRAWN BY DATE: JCH 10-77
CHECKED BY DATE: GSH 10-77
PROJECT NO.: 2250-20
SHEET NO.: 59

FILE NAME = D:\OPERATIONS\Bridges\Bridgeplans_CAD\72H88 - Sangamon & Scott County point 2016\plots\default	USER NAME = dudleyjbm	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 7/7/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS SN 084-0180
(FOR INFORMATION ONLY)

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D6 BDGE PAINTING 2016-1	*	17	7
	* SANGAMON & SCOTT	CONTRACT NO. 72H88		
	ILLINOIS FED. AID PROJECT			

Sheet No. 14 of 19 Sheets

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA-67	S.R.-1 2B-1	SANGAMON	110	60
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		

MOMENT TABLE - Composite 3 Span
(Composite in Positive Moment Areas only)

INTERIOR GIRDER MOMENT TABLE			
	.4pt. Span 1	Pier	.6pt. Span 2
Is. (in⁴)	13,740	25,805	12,985
Ic (in.⁴)	36,315		33,672
Ss (in³)	721	1147	655
Sc (in³)	1007		919
℄ (K/')	0.850	0.850	0.850
M℄ ('K)	319	-884	281
fs ℄ (KSI)	5.3	9.2	5.2
s℄ (K/')	0.320	0.320	0.320
Ms℄ ('K)	143	- 265	165
M℄ ('K)	616	- 552	645
Mimp ('K)	150	- 127	140
TOTAL ('K)	909	- 944	950
fs℄+I+s℄(KSI)	10.8	9.9	12.4
fsTOTAL(KSI)	16.1	19.1	17.6
VR (K)=	52.2		48.0

REACTION TABLE

INTERIOR GIRDER REACTION TABLE			
	Abut	Pier	———
R℄+s℄(K)	33.1	126.7	———
R℄ (K)	39.6	60.1	———
Imp (K)	9.1	13.9	———
RTOTAL (K)	81.8	200.7	———

"Y" VALUES	
W. Abut.	0
Pier No.1	9/32
Pier No.2	9/16
E. Abut.	5/16

TOP ℞ BEVEL DETAILS

TOP OF WEB ELEVATION *

LOCATION	Bm. #1	Bm. #2	Bm. #3	Bm. #4	Bm. #5	Bm. #6	Bm. #7	Bm. #8	Bm. #9	Bm. #10	Bm. #11	Bm. #12	Bm. #13	Bm. #14
℄ Brg. W. Abut.	546.007	546.072	546.138	546.203	546.270	546.337	546.405	546.294	546.241	546.092	545.944	545.797	545.650	545.504
℄ Splice #1	547.081	547.124	547.167	547.211	547.255	547.299	547.344	547.212	547.150	546.979	546.808	546.638	546.469	546.300
℄ Brg. Pier #1	547.606	547.649	547.692	547.736	547.780	547.824	547.869	547.737	547.675	547.504	547.333	547.163	546.994	546.825
℄ Splice #2	548.143	548.186	548.229	548.273	548.317	548.361	548.406	548.274	548.212	548.041	547.870	547.700	547.531	547.362
℄ Splice #3	549.695	549.738	549.780	549.823	549.866	549.909	549.952	549.816	549.754	549.579	549.405	549.230	549.055	548.881
℄ Brg. Pier #2	550.267	550.310	550.352	550.395	550.438	550.481	550.524	550.388	550.326	550.151	549.977	549.802	549.627	549.453
℄ Splice #4	550.826	550.869	550.911	550.954	550.997	551.040	551.083	550.947	550.885	550.710	550.536	550.361	550.186	550.012
℄ Brg. E. Abut.	552.360	552.403	552.445	552.488	552.531	552.574	552.617	552.481	552.419	552.244	552.070	551.895	551.720	551.546

* For Fabrication only

SHIM PLATE THICKNESS 't'

LOCATION	Bm. #1	Bm. #2	Bm. #3	Bm. #4	Bm. #5	Bm. #6	Bm. #7	Bm. #8
W. Abut.	0	0	0	0	0	0	0	3/8
Pier #1	0	1/2	0	1/2	0	1/4	0	3/4
Pier #2	0	9/16	0	1/2	0	9/16	0	3/4
E. Abut.	0	7/16	0	9/16	0	1/2	0	11/16

ABUT. ℞'s - 4"x9x2'-1"
PIER ℞'s - 4"x9x2'-1"

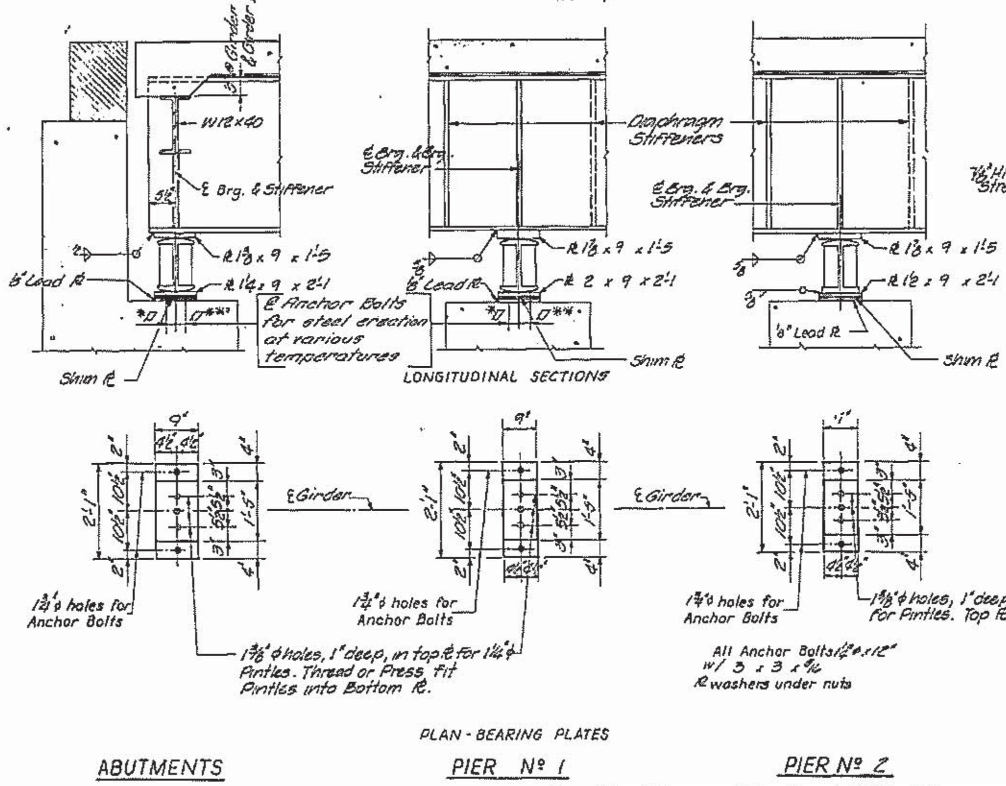
Note: No shim ℞'s required at Girders #9 thru #14

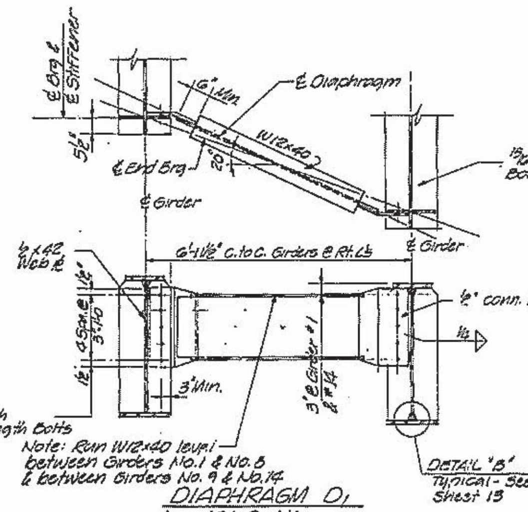
NOTES ON SETTING OF ANCHOR BOLTS AT EXPANSION BEARINGS

a) D* (Side of Brg. away from Fixed Brg.)
D* = 1/8" per each 100' of expansion for every 15° fall below normal temperature of 50° F.

D** (Side of Brg. toward Fixed Brg.)
D** = 1/8" per each 100' of expansion for every 15° rise above normal temperature of 50° F.

b) After girders have been erected and dimensions D* or D** determined, holes shall be drilled and anchor bolts shall be grouted in place. All fixed anchor bolts may be built into the masonry.





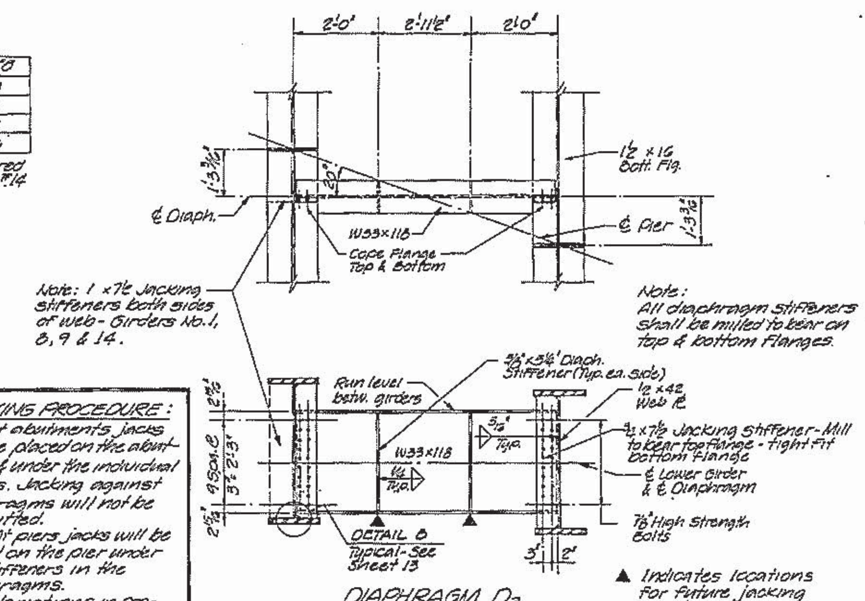
Note: Run W12x40 level between Girders No. 1 & No. 8 & between Girders No. 9 & No. 14.

DIAPHRAGM D1
(24 Req'd.)

Note: 1 x 7 1/2 Jacking stiffeners both sides of web - Girders No. 1, 8, 9 & 14.

*JACKING PROCEDURE:
1. At abutments jacks will be placed on the abutment & under the individual girders. Jacking against diaphragms will not be permitted. 2. At piers jacks will be placed on the pier under the stiffeners in the diaphragms. 3. Variations in procedure must be approved by the BRIDGE and TRAFFIC STRUCTURE OFFICE.

* For future jacking - Not applicable to this contract.

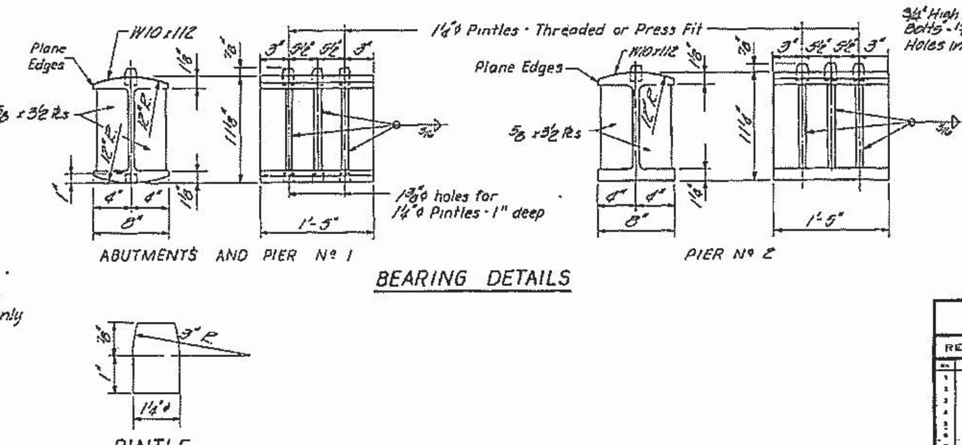


DIAPHRAGM D3
(24 Req'd.)

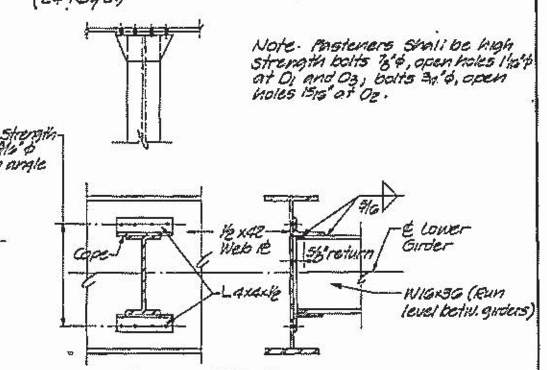
Note: All diaphragm stiffeners shall be milled to bear on top & bottom flanges.

▲ Indicates locations for future jacking points.

Note - Fasteners shall be high strength bolts 7/8"φ, open holes 15/16"φ at D1 and D3; bolts 3/4"φ, open holes 13/16" at D2.



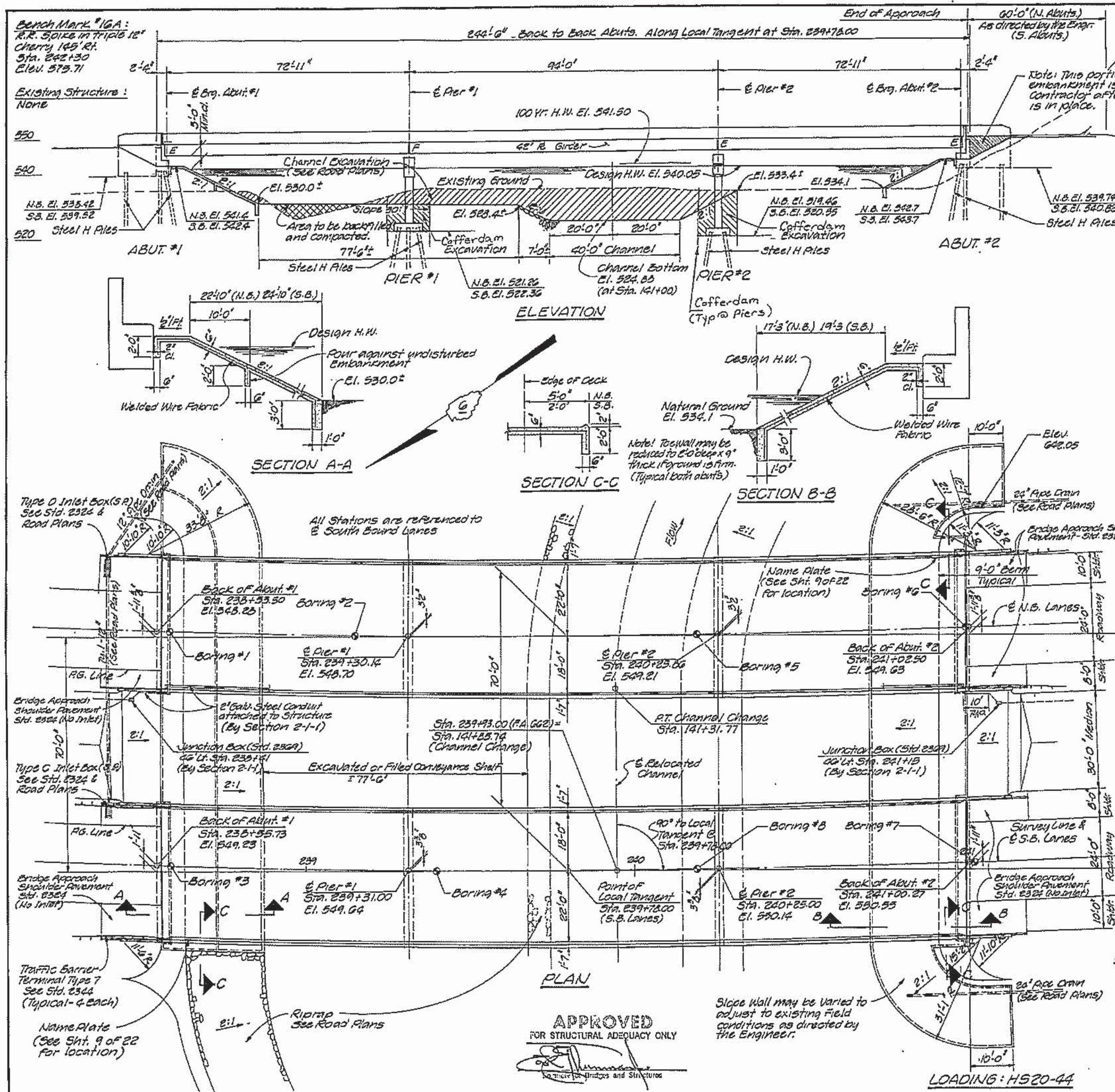
BEARING DETAILS



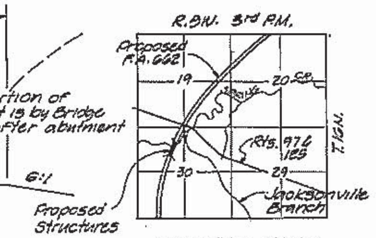
DIAPHRAGM D2
(120 Req'd)

STRUCTURAL STEEL DETAILS		
REVISIONS	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAWN BY DATE JLH 10-77 / CHECKED BY DATE GSH 10-77
	S.B.I. 125 OVER SPRING CREEK F.A. 67 SECTION S(B-1) PROJ. STA. 125+18.00 (S.B.I. 125) SANGAMON CO.	BOOK NUMBER / PROJECT NO. 2250-20
	HOMER L. CHASTAIN & ASSOCIATES CONSULTING ENGINEERS DECATUR, ILLINOIS	SHEET NO. 60

FILE NAME = O:\OPERATIONS\Bridges\Bridgeplans.CAD\72H88 - Sangamon & Scott County paint 2016\pl...	USER NAME = dudleybm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS SN 084-0180 (FOR INFORMATION ONLY)	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000 ' / in.	DRAWN -	REVISED -			VAR.	06 BDGE PAINTING 2016-1	*	17	8
Default	PLOT DATE = 7/7/2015	CHECKED -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.	* SANGAMON & SCOTT			CONTRACT NO. 72H88	
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				



APPROVED
FOR STRUCTURAL ADEQUACY ONLY



LOCATION PLAN

Sheet No. 1
of 22 Sheets

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA.-662	28	SANGAMON	71	27
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		

GENERAL NOTES

See Proposal for Boring Data.

Fasteners shall be high strength bolts. Bolts ⅞"φ, open holes 15/16", unless otherwise noted.

Calculated Weight of Structural Steel = 520,300 pounds

The basic lead silico chromate paint system shall be used for Shop and field painting of structural steel, except where noted.

Field welding of construction accessories will not be permitted to the bottom flange of beams or girders nor to the top flange for a distance equal to one-fourth the span length each way from the pier supports. Field welding in other areas will be permitted only when approved by the Engineer.

Anchor bolts shall be set before bolting diaphragms over supports.

Slope wall shall be reinforced with welded wire fabric 6"x6"-W4.0xW4.0 weighing 58 lbs. per 100 sq.ft.

The Contractor shall drive four Steel Test Piles HP10x42 in permanent locations, one each at Abutment #1 (N.B.), Pier #1 (S.B.), Pier #2 (N.B.) and Abutment #2 (S.B.) as directed by the Engineer before ordering the remainder of the piles.

Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-53 Grade 60.

The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.

The concrete rail section above the mandatory construction joint at the top of the slab shall be constructed of Class X Concrete, except the aggregates shall conform to the requirements of Handrail Concrete.

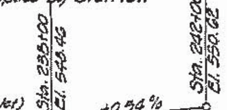
Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of ⅛ inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two ⅛ inch adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates.

The main load carrying member 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.

For Channel Excavation see Road Plans.

STA. 239 + 78.00
BUILT 198 BY
STATE OF ILLINOIS
F.A. RT. 662 SEC. 28
F.A. PROJ. F-662(17)
LOADING HS-20
STR. NO. ___ - ____

LETTERING FOR NAMEPLATE
(See Std. 2113)
Structure Number to be supplied by District.



PROFILE GRADE
F.A. 662
Median Edge of Pavement

WATERWAY INFORMATION

Drainage Area ---------- 95.9 Sq. Mi.
Character ---------- Cultivated, Wooded
Required Opening (Below 50 Yr. H.W.) ---------- 2100 Sq. Ft.
Present Opening ---------- None
Proposed Opening (Below 50 Yr. H.W.) ---------- 2115 Sq. Ft.
Ordinary Water ---------- 528.6±
Low Water ---------- 526.7±
Design Discharge Q_{50} ---------- 8890 CFS
Created Head ---------- 0.75 Ft.
Design Discharge Q_{100} ---------- 10,140 CFS
Created Head ---------- 0.90 Ft.
* Flood of Record-Discharge-6750 CFS at Gauging Station Date: 1960
* Gauging Station is located approx. 1900' downstream.

℄ S.B. LANES
HORIZONTAL CURVE DATA

Δ = 45°34'30"
D = 1° 28' 00"
T = 1561.51'
R = 3906.53'
L = 2971.02'
E = 300.52'
P.I. Sta. 245+89.90
P.C. Sta. 230+28.39
P.T. Sta. 259+99.41
S.E. = 0.039'/Ft.

** Included in Section 2-1-1

Add'l Items	Unit	Sub.	Total
Cofferdam	Each	4	4
Cofferdam Excav.	Cu Yd	470.	470
Structure Excav.	Cu Yd	340	340

DESIGN STRESSES

f_s = 20,000 psi Structural Steel (M 183)
f_c' = 3500 psi } Concrete Load
f_y = 60,000 psi } Factor Design
n = 9

DESIGN SPECIFICATIONS

AASHTO 1973 and 1974 thru 1976 Interims (as applicable)
Allow 25 PSF of roadway for future wearing surface

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPERSTR.	SUBSTR.	TOTAL
Protective Coat	Sq. Yd.	2669	—	2669
Class X Concrete	Cu. Yd.	613.3	489.0	1102.3
Structural Steel	Lump Sum	1	—	1
Stud Shear Connectors	Each	5724	—	5724
Reinforcement Bars	Pound	.	38,320	38,320
Reinforcement Bars (Epoxy Coated)	Pound	163,190	—	163,190
Steel Piles HP10x42	Lin. Ft.	—	3937	3937
Test Pile Steel HP10x42	Each	—	4	4
Name Plates	Each	2	—	2
Slope Wall 6"	Sq. Yd.	—	1049	1049
Neoprene Expansion Joint 2½"	Lin. Ft.	173	—	173
Galvanized Steel Conduit attached to Structure - 2" **	Lin. Ft.	281	—	281
Driving Steel Piles	Lin. Ft.	—	3937	3937
Floor Drains	Each	76	—	76

REGISTERED STRUCTURAL ENGINEER
GLENN S. HARRIS
81-2534
STATE OF ILLINOIS

GENERAL PLAN AND ELEVATION

REVISIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A. 662 OVER SPRING CREEK
F.A. 662 SECTION 28 PROJ.
STA. 239+78.00 (F.A. 662) SANGAMON CO.

HOMER L. CHASTAIN & ASSOCIATES
CONSULTING ENGINEERS
DECATUR, ILLINOIS

DRAWN BY - DATE JLH 4-78
CHECKED BY - DATE GSH 4-78
BOOK NUMBER
PROJECT NO. 2250-10
SHEET NO.

Revised

FILE NAME =	USER NAME = dudleybm	DESIGNED -	REVISED -
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	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 7/7/2015	DATE -	REVISED -

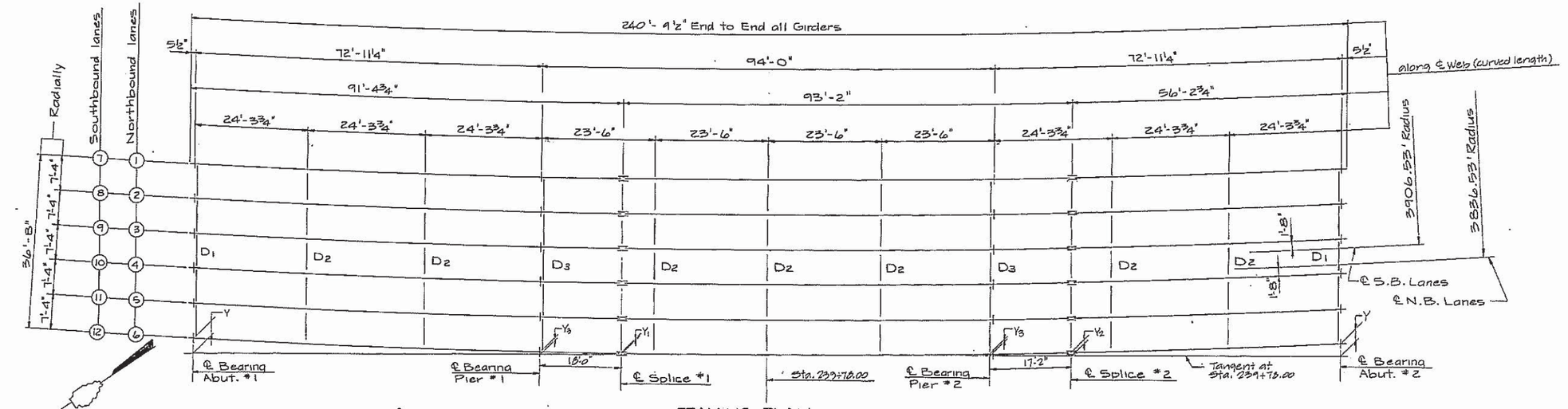
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS SN 084-0181 & 0182
(FOR INFORMATION ONLY)

SCALE: | SHEET OF SHEETS | STA. TO STA.

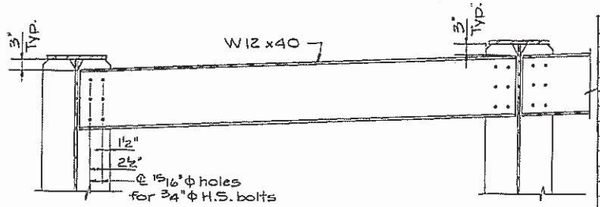
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D6 BDGE PAINTING 2016-1	*	17	9
	* SANGAMON & SCOTT	CONTRACT NO. 72H88		
		ILLINOIS FED. AID PROJECT		

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA 602	28	SANGAMON	71	37
FED. ROAD DIST. NO.		ILLINOIS	PROJECT	



FRAMING PLAN

All end diaphragms to be W12x40 (D1)
All interior diaphragms to be W16x36 (D2)
All Pier diaphragms to be W16x36 (D3)



END DIAPHRAGM - D1

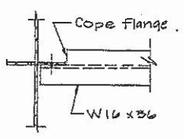
"Y" OFFSETS

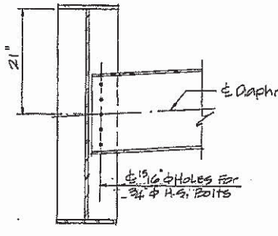
GIRDER NO.	Y	Y1	Y2	Y3
1	1.884'	0.110'	0.340'	0.229'
2	1.881'	0.110'	0.338'	0.224'
3	1.877'	0.110'	0.337'	0.226'
4	1.873'	0.110'	0.336'	0.226'
5	1.870'	0.109'	0.335'	0.226'
6	1.867'	0.109'	0.334'	0.227'
7	1.865'	0.108'	0.334'	0.226'
8	1.865'	0.108'	0.334'	0.228'
9	1.861'	0.108'	0.332'	0.228'
10	1.858'	0.107'	0.331'	0.227'
11	1.855'	0.107'	0.330'	0.226'
12	1.851'	0.107'	0.329'	0.226'

TOP OF WEB ELEVATIONS*

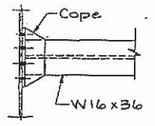
GIRDER NO.	RADIUS	ABUT. 1	PIER 1	SPLICE 1	PIER 2	SPLICE 2	ABUT. 2
1	3816.20'	546.66	547.06	547.16	547.58	547.60	547.98
2	3823.53'	546.94	547.35	547.45	547.86	547.96	548.27
3	3830.86'	547.23	547.63	547.73	548.15	548.25	548.55
4	3838.20'	547.52	547.92	548.02	548.44	548.53	548.84
5	3845.53'	547.81	548.21	548.31	548.72	548.82	549.12
6	3852.86'	548.09	548.49	548.59	549.01	549.10	549.41
7	3890.20'	547.76	548.16	548.26	548.67	548.76	549.06
8	3897.53'	548.05	548.44	548.54	548.93	549.03	549.35
9	3904.86'	548.34	548.73	548.83	549.24	549.33	549.63
10	3912.20'	548.62	549.02	549.11	549.52	549.62	549.92
11	3919.53'	548.91	549.30	549.40	549.81	549.90	550.20
12	3926.86'	549.20	549.59	549.69	550.09	550.19	550.49

* For Fabrication only

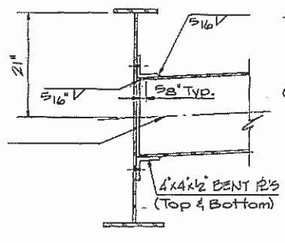


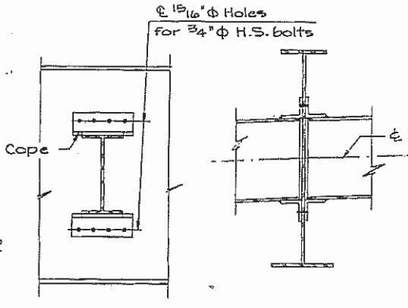


INTERIOR DIAPHRAGM - D3



Note: Hardened washers shall be required over 15/16"ϕ holes in angles.





INTERIOR DIAPHRAGM - D2

FRAMING PLAN AND DIAPHRAGM DETAILS

REVISIONS		
NO.	DATE	DESCRIPTION
1		
2		
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A. 602 OVER SPRING CREEK
F.A. 602 SECTION 28 PROJ.
STA. 239+78.00 (F.A. 602) SANGAMON CO.

HOMER L. CHASTAIN & ASSOCIATES
CONSULTING ENGINEERS
DECATUR, ILLINOIS

DRAWN BY / DATE	RJH 3-15
CHECKED BY / DATE	GSH 4-15
BOOK NUMBER	
PROJECT NO.	2250-10
SHEET NO.	

FILE NAME =	USER NAME = dudleybm	DESIGNED -	REVISED -
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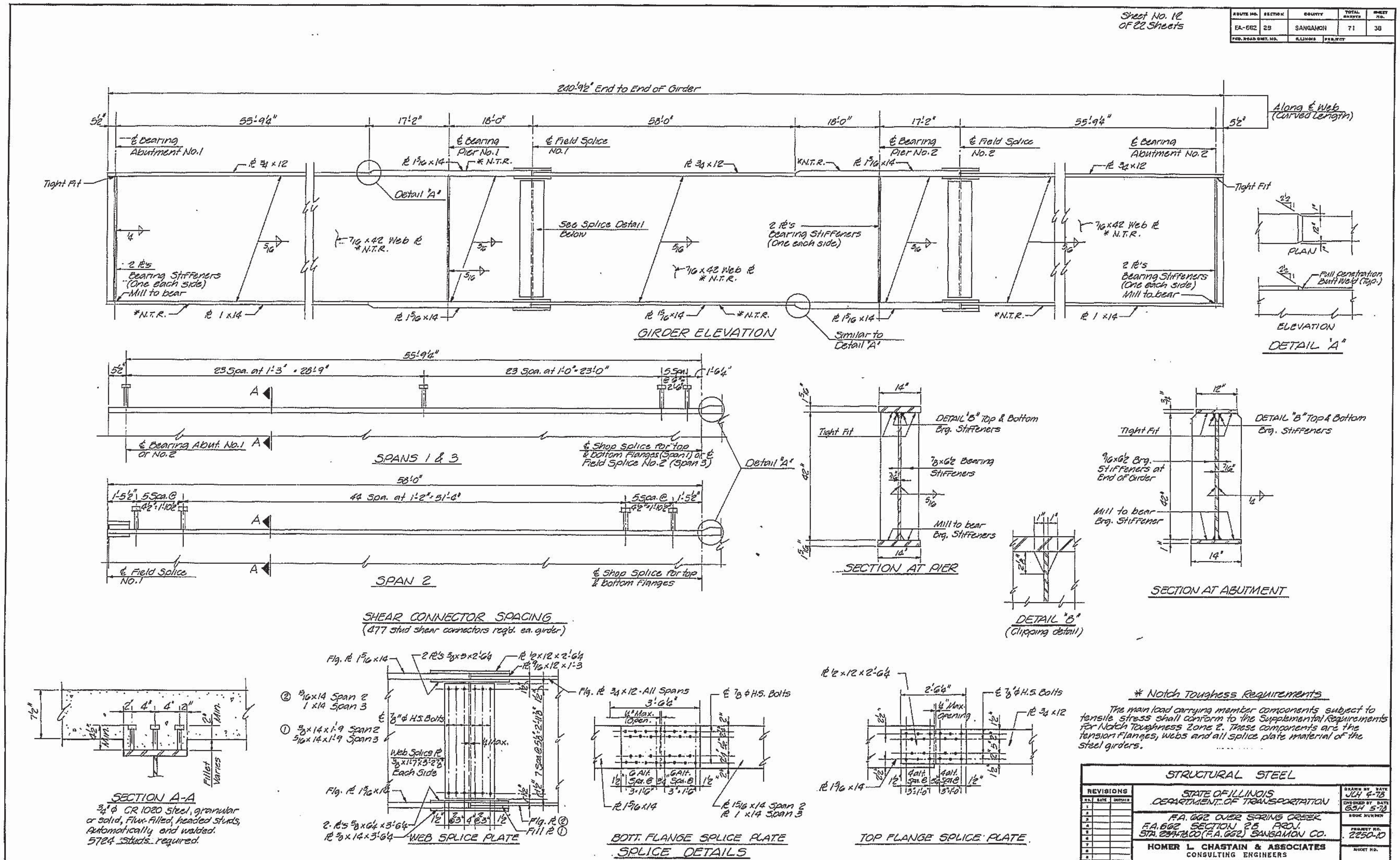
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 7/7/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS SN 084-0181 & 0182
(FOR INFORMATION ONLY)

SCALE: | SHEET OF SHEETS | STA. | TO STA.

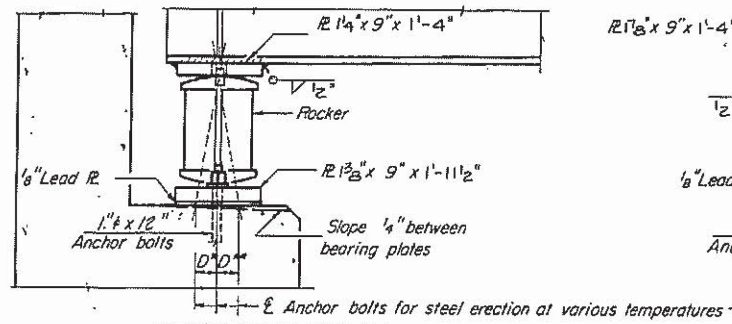
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D6 BDGE PAINTING 2016-1	*	17	10
	* SANGAMON & SCOTT	CONTRACT NO. 72H88		
	ILLINOIS FED. AID PROJECT			


Sheet No. 12 of 22 Sheets
F.A. 662 | 29 | SANGAMON | 71 | 38
240'-9½" End to End of Girder
Along ℄ Web (Curved Length)
℄ Bearing Abutment No. 1
℄ Bearing Pier No. 1
℄ Field Splice No. 1
℄ Bearing Pier No. 2
℄ Field Splice No. 2
℄ Bearing Abutment No. 2
Tight Fit
Detail "A"
See Splice Detail Below
2 ℞'s Bearing Stiffeners (One each side) Mill to bear
7/16 x 42 Web ℞ * N.T.R.
Similar to Detail "A"
GIRDER ELEVATION
PLAN
ELEVATION
Full penetration Butt Weld (Typ.)
DETAIL "A"
SPANS 1 & 3
SPAN 2
SHEAR CONNECTOR SPACING
(477 stud shear connectors req'd. ea. girder)
SECTION AT PIER
DETAIL "B" (Clipping detail)
SECTION AT ABUTMENT
Detail "B" Top & Bottom Brg. Stiffeners
Mill to bear Brg. Stiffeners
SECTION A-A
¾" ɸ CR 1020 Steel, granular or solid, Flux-filled, headed studs, Automatically end welded. 5724 Studs required.
WEB SPLICE PLATE
BOTT. FLANGE SPLICE PLATE
TOP FLANGE SPLICE PLATE
SPLICE DETAILS
* Notch Toughness Requirements
The main load carrying member 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.
STRUCTURAL STEEL
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A. 662 OVER SPRING CREEK
F.A. 662 SECTION 29 PROJ.
BANGAMON CO.
HOMER L. CHASTAIN & ASSOCIATES
CONSULTING ENGINEERS
DECATUR, ILLINOIS
2250-10

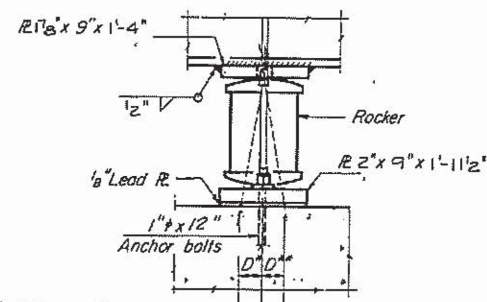
FILE NAME = D:\OPERATIONS\Bridges\Bridgeplans_CAD\72H88 - Sangamon & Scott County paint 2016\pl...	USER NAME = dudleybm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS SN 084-0181 & 0182 (FOR INFORMATION ONLY)
	PLOT SCALE = 100.0000 '/ in.	DRAWN -	REVISED -		
		CHECKED -	REVISED -		
Default	PLOT DATE = 7/7/2015	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D6 BOGE PAINTING 2016-1	•	17	11
	• SANGAMON & SCOTT		CONTRACT NO. 72H88	
	ILLINOIS FED. AID PROJECT			

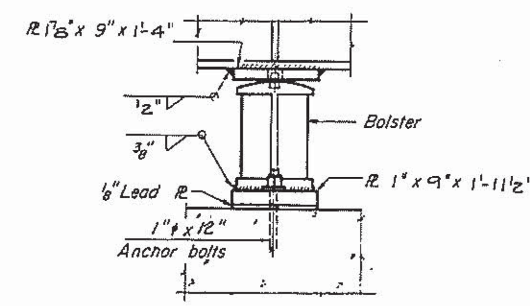
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA-662	28	SANGAMON	71	39
FED. ROAD DIST. NO.		ILLINOIS	PROJECT	



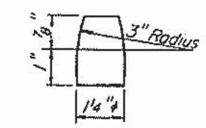
SECTION @ ABUT.



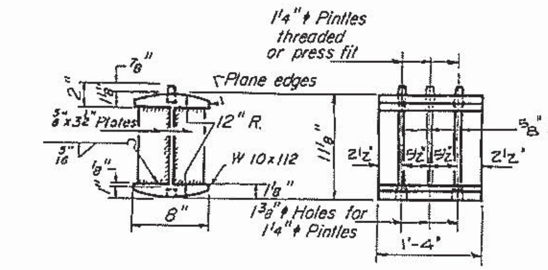
ELEVATION



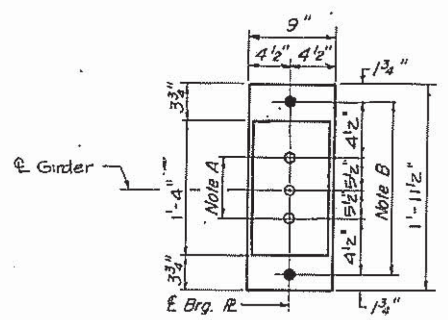
ELEVATION



PINTLE



ROCKER

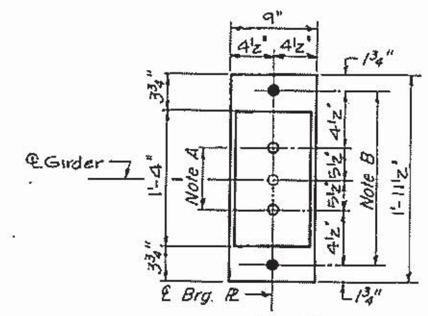


PLAN

AT ABUTMENT

NOTE A

1⅜"φ Holes – 1" deep in top PL for pintles Thread or press fit pintles into bottom PL.

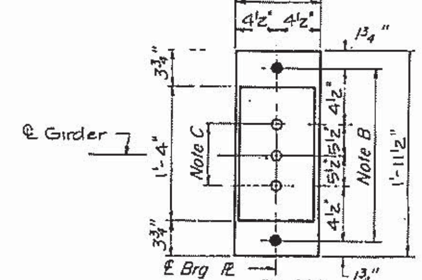


PLAN

AT PIER # 2

NOTE B

1½"φ Holes for 1"φ anchor bolts. 5/16 x 2½" x 2½" PL. Washers under nut.

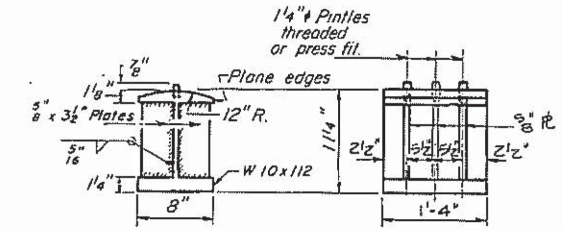


PLAN

AT PIER # 1

NOTE C

1⅜"φ Holes 1" deep in top PL only for 1¼"φ pintles



BOLSTER

NOTES ON SETTING OF ANCHOR BOLTS AT EXP. BRGS.

a) D* (Side of brg away from fixed brg.)
D* = ⅛" per each 100' of expansion for every 15° fall below the normal temp. of 50°F.
D** (Side of brg. toward fixed brg.)
D** = ⅛" per each 100' of expansion for every 15° rise above the normal temp. of 50°F.

b) After beams have been erected and dimensions D* or D** determined, holes shall be drilled and anchor bolts shall be grouted in place. All fixed anchor bolts may be built into the masonry.

BEARING ASSEMBLY DETAILS

DESIGN DATA

INTERIOR GIRDER MOMENT TABLE	0.4 SPAN 1	PIER	0.5 SPAN 2
I_s (in⁴)	11,587	19,944	11,962
I_c (in⁴)	29,937	——	31,215
S_s (in³)	554	894	584
S_c (in³)	781	——	820
ℓ (k/ft.)	.883	.883	.883
$M_ℓ$ (ft.k)	274	696	271
fs-non-comp.(ksi)	5.94	9.34	5.56
Sℓ (ft.k)	.302	.302	.302
$M_{sℓ}$ (ft.k)	115	193	140
M_L (ft.k)	581	459	631
M_{Imp} (ft.k)	139	110	151
TOTAL (ft.k)	835	762	922
$f_{s\text{-}comp}$ (ksi)	12.83	10.23	13.49
$f_{s\,total}$ (ksi)	18.77	19.57	19.07
VR (k)	54.0		

INTERIOR GIRDER REACTION TABLE	ABUT.	PIER 1	PIER 2
$R_ℓ$ (k)	30.3	111.6	111.6
R_L (k)	41.0	62.6	62.6
Imp. (k)	9.9	15.0	15.0
R_{TOTAL} (k)	81.2	189.2	189.2

I_s and S_s are the moment of inertia and section modulus of the steel section used in computing fs total.

I_c and S_c are the moment of inertia and section modulus of the composite section used in computing fs total.

VR is the maximum L + Impact shear range in span used to determine shear connector spacing.

Reproduced From I.D.O.T. Base Sheet I-2-8 8-1-70

BEARING DETAILS

REVISIONS		
NO.	DATE	DETAILS
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A. 662 OVER SPRING CREEK
F.A. 662 SECTION 28 PROJ.
STA. 239+74.00 (F.A. 662) SANGAMON CO.

HOMER L. CHASTAIN & ASSOCIATES
CONSULTING ENGINEERS
DECATUR, ILLINOIS

DRAWN BY DATE: RJH 4-78
CHECKED BY DATE: GSH 4-78
BOOK NUMBER
PROJECT NO. 2250-10
SHEET NO.

B.M.#20 R.R. spike in T.P. Lt. 166' of Sta. 368+57 Elev. 598.76
Existing Structures: Structure on S.B.I. Rte. 126 (U.S.66) at Sta. 372+52.60 Built as Sec. 110X-3VB-VF(2) in 1954 to be removed by paving contractor after new structures are constructed. Existing I-Bms. to be salvaged.
Structure on F.A. Rte. 5 (U.S.66) at Sta. 372+52.60 Built as Sec. 110X-3VB-VF(3) in 1955 will remain in place and used as frontage road.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

Station 368+33.35
Built 197 By
State of Illinois
F.A.I. Rte. 55 Sec. 84-4-3VB
FA PROJ. I-55-3(62)
Loading HS20 & Alt

NAME PLATE
See Std. 2113-1

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 55	84-4-3, 3VB	SANGAMON	261	54

SHEET NO. 1
31 SHEETS

GENERAL NOTES

All reinforcement bars shall be lapped 24 diameters unless otherwise shown.

Field connections shall be bolted using high strength bolts. Bolts $\frac{7}{8}$"φ, open holes $\frac{15}{16}$"φ, unless otherwise noted.

Slope wall shall be reinforced with welded wire fabric 6"x6" mesh, weighing 58# per 100 sq.ft.

The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection.

The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments, & Piers 1 & 3

The concrete rail section above the mandatory construction joint at the top of the slab shall be constructed of Class X Concrete, except the aggregates shall conform to the requirements of Handrail Concrete.

Field welding of Construction accessories will not be permitted to the bottom flange of longitudinal beam or transverse supporting Box Girder nor to the top flange of Box Girder for a distance of 4'-0" each side from column supports.

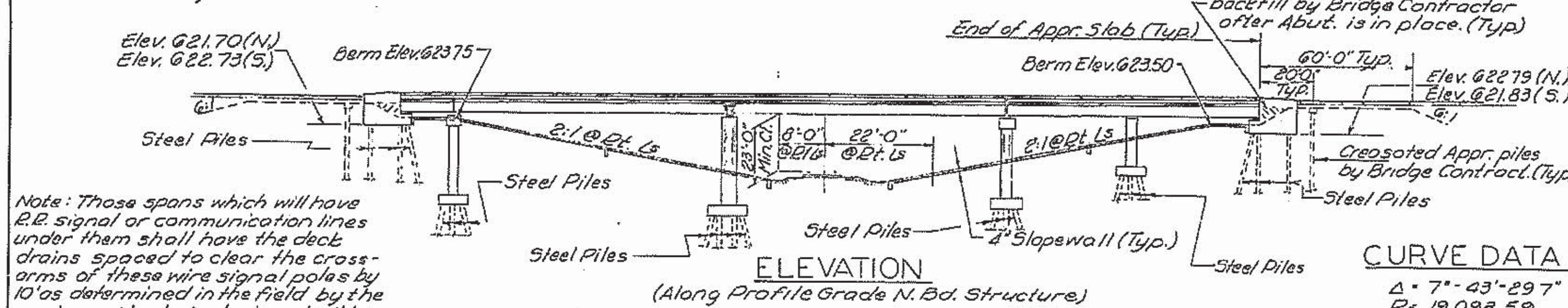
The Contractor shall drive 6 steel test piles one each in the permanent locations (See Table), as directed by the Engineer before ordering the remainder of piles.

Bars indicated thus 55×7-#5 indicates 55 lines with 7 lengths per line.

For Sec. @ Abut. & Substructural layout see sheet # 23

The Basic Lead Silico Chromate paint system shall be used for shop and field painting of structural steel.

The interior surfaces of the supporting girder shall be given 2 shop coats of paint, and need not be field painted.



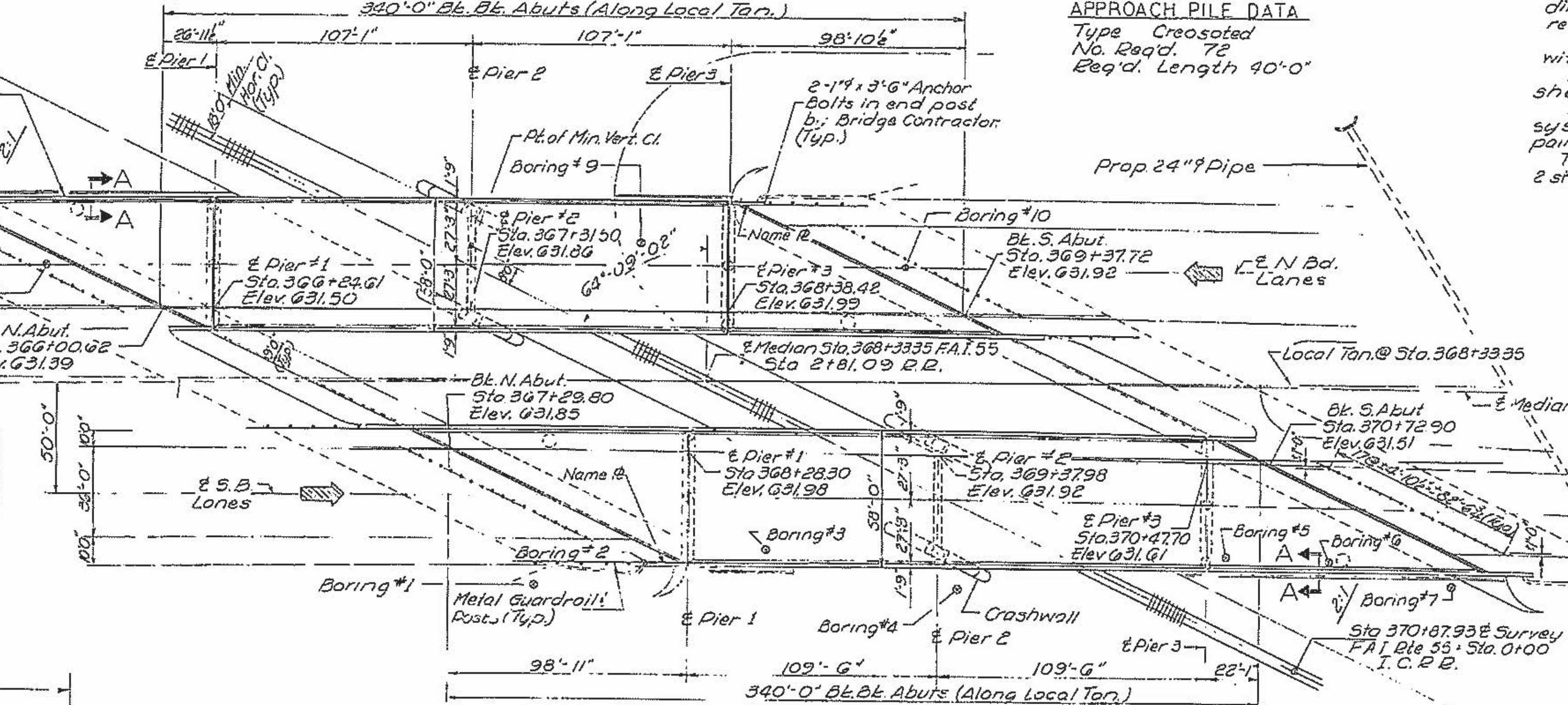
Note: Those spans which will have R.R. signal or communication lines under them shall have the deck drains spaced to clear the cross-arms of these wire signal poles by 10' as determined in the field by the engineer. No deck drains shall be permitted in span over R.R. tracks.

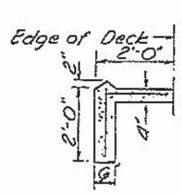
TEST PILE LOCATIONS

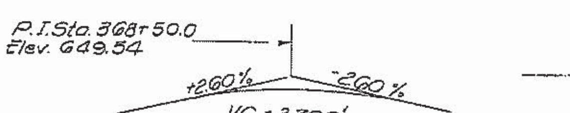
N. Bd. L. Str.	S. Bd. L. Str.
N. Abut.	P-1
E. Col of P-2	W. Col of P-2
S. Abut.	P-3

CURVE DATA
Δ = 7°-43'-29.7"
R = 19,098.59

APPROACH PILE DATA
Type Creosoted
No. Req'd. 72
Req'd. Length 40'-0"



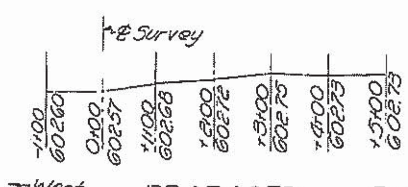




PROFILE GRADE AT MEDIAN EDGE
(F.A.I. Rte. 55)

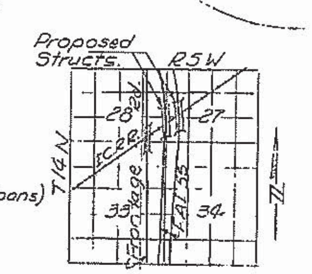
DESIGNED	[illegible]
CHECKED	Harbel Singh
DRAWN	F. Mercado
CHECKED	H.S.

EXAMINED Dec. 12 1963
PASSED
APPROVED



PROPOSED
TOP OF SOUTH RAIL

DESIGN STRESSES
f'c = 1,200 psi. (Deck Slab)
f'c = 1,400 psi. (Curb, Par. Sub. & Girders in Appr. Spans)
fs = 20,000 psi. (Reinforcement)
fs = 20,000 psi. (Structure)
Vc = 75 psi. n = 10
Allowable L Defl. L/1200 (Composite)
Allow 25# per Sq. Ft. for future W.S.
LOADING HS20-44 & ALT



LOCATION PLAN

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
* Cl. A Excav. for Structs.	Cu. Yds.			180
Protective Coat	Sq. Yds.	5915		5915
Class X Concrete	Cu. Yds.	1737.1	1,091.3	2,8[illegible].4
Structural Steel	Lump Sum	L.S.		1
Stud Shear Connectors	Each	6240		6,240
Aluminum Railing	Lin. Ft.	1,323		1,323
Reinforcement Bars	Lbs.	448,960	112,900	561,860
Creosoted Piles (738')	Lin. Ft.			2880
Steel Piles (12 BP53)	Lin. Ft.		6398	6398
Steel Piles (10 BP42)	Lin. Ft.		5,288	5288
Test Piles Steel (12BP53)	Each		2	2
Test Piles Steel (10BP42)	Each		4	4
Name Plates	Each		2	2
Slope Walls (4")	Sq. Yds.			5,220
Preformed Jt. Sealer	Lin. Ft.	232		232

Calculated Plan Weight of Structural Steel = 1,062,160 Lbs.
* Including Excavation for Slope wall.

PROJ. I-55-3(62)84
GENERAL PLAN & ELEVATION
F.A.I. RTE. 55 OVER ICRR GLENARM
F.A.I. RTE 55 SEC. 84-4-3VB
SANGAMON COUNTY
STA. 368+33.35

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		DRAWN -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS SN 084-0112 & 0113
(FOR INFORMATION ONLY)

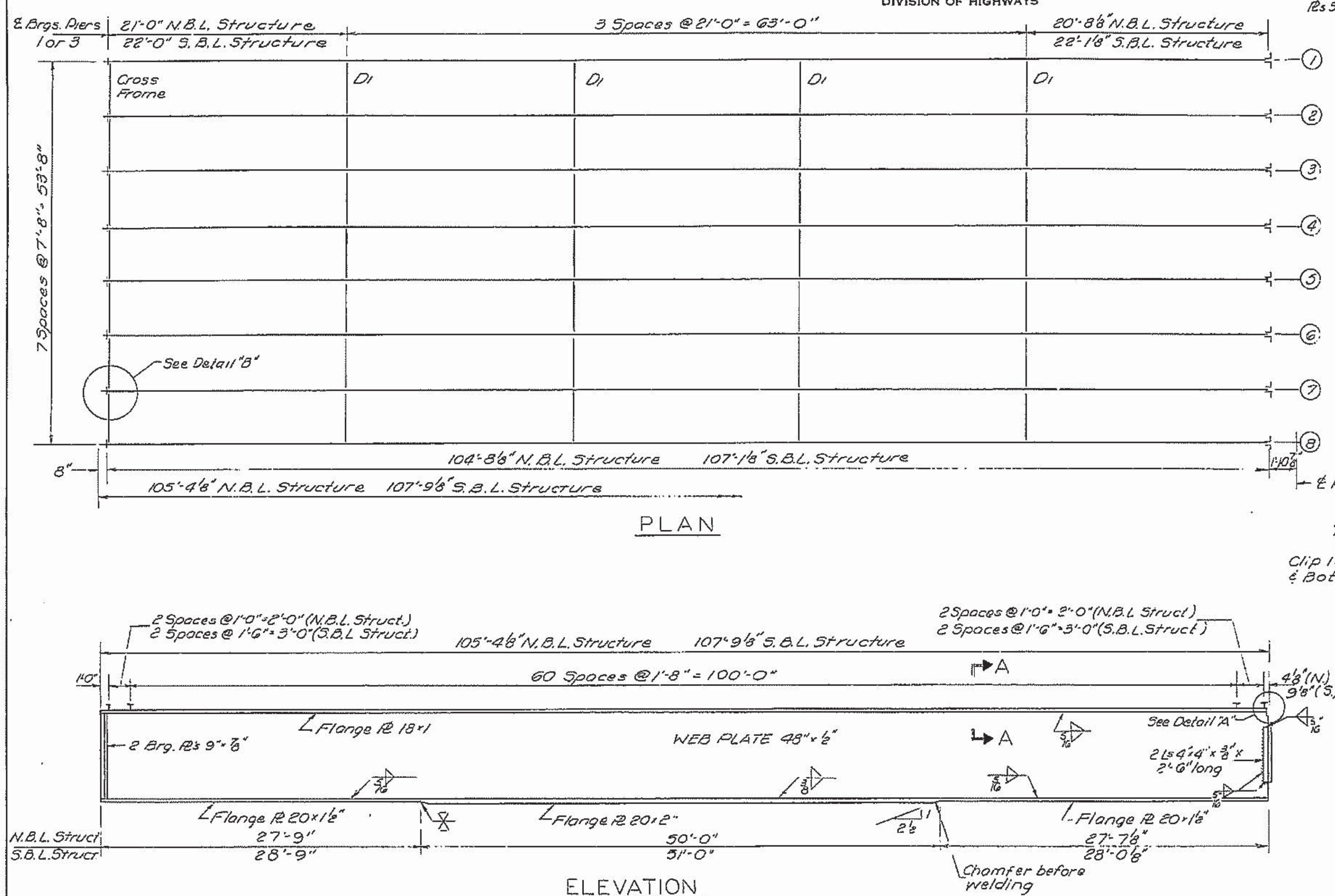
SCALE: | SHEET OF SHEETS | STA. TO STA.

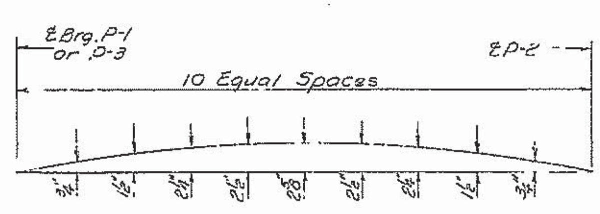
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D6 BDGE PAINTING 2016-1	*	17	13
* SANGAMON & SCOTT		CONTRACT NO. 72H88		
		ILLINOIS FED. AID PROJECT		

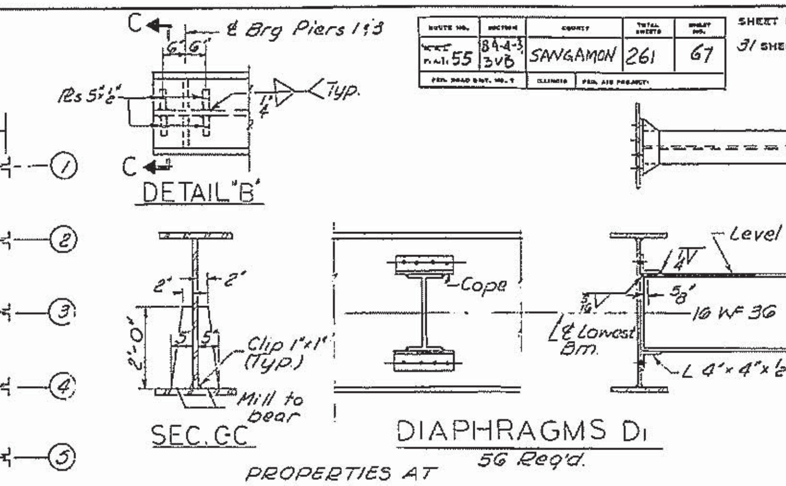
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 55	84-4-3 3VB	SANGAMON	261	67

SHEET NO. 14
31 SHEETS





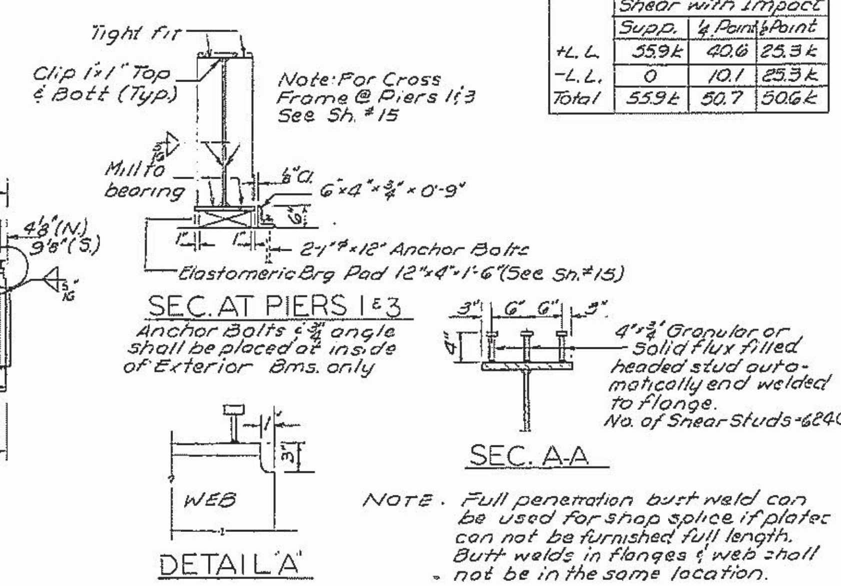


PROPERTIES AT CENTERLINE OF BEAM

Steel Section	
I_s	36,600 in⁴
S_{TS}	1,150.2 in³
S_{BS}	1,908.2 in³
Composite Section	
I_c	84,908.9 in⁴
S_{TC}	5,453.4 in³
S_{BC}	2,396.5 in³

TABLE OF MOMENTS AND SHEARS - INTERIOR BEAMS

	Steel Section		
D.L.	Max. Moment		
	1,520'k		
	Composite Section		
	Max. Moment		
S.D.L.	430'k		
L.L.	1,152'k		
Imp.	254'k		
Total	1,836'k		
	Shear with Impact		
	Supp.	¼ Point	½ Point
+L.L.	55.9k	40.6	25.3k
−L.L.	0	10.1	25.3k
Total	55.9k	50.7	50.6k



NOTE: Full penetration butt weld can be used for shop splice if plates can not be furnished full length. Butt welds in flanges & web shall not be in the same location.

TABLE OF ELEVATIONS (TOP OF WEB)

		Bm. #1	Bm. #2	Bm. #3	Bm. #4	Bm. #5	Bm. #6	Bm. #7	Bm. #8
N.Bd L. Struct.	℄ Brg P1	630.25	630.47	630.63	630.78	630.86	630.86	630.74	630.56
	℄ P-2	630.68	630.84	631.00	631.15	631.27	631.20	631.08	630.92
	℄ Brg P3	630.82	630.98	631.14	631.28	631.40	631.33	631.21	630.98
S.Bd L. Struct	℄ Brg P1	631.07	631.23	631.35	631.35	631.26	631.11	630.95	630.79
	℄ P-2	630.99	631.15	631.28	631.32	631.20	631.05	630.89	630.75
	℄ Brg P3	630.67	630.83	630.96	631.03	630.91	630.76	630.60	630.36

DESIGNED	[signature]
CHECKED	[signature]
DRAWN	F. Mercado
CHECKED	H.S.

EXAMINED Dec. 12 1969
PASSED
APPROVED

GIRDER DETAILS
F.A.I. RTE 55 SEC. 84-4-3VB
SANGAMON COUNTY
STA. 368+33.35

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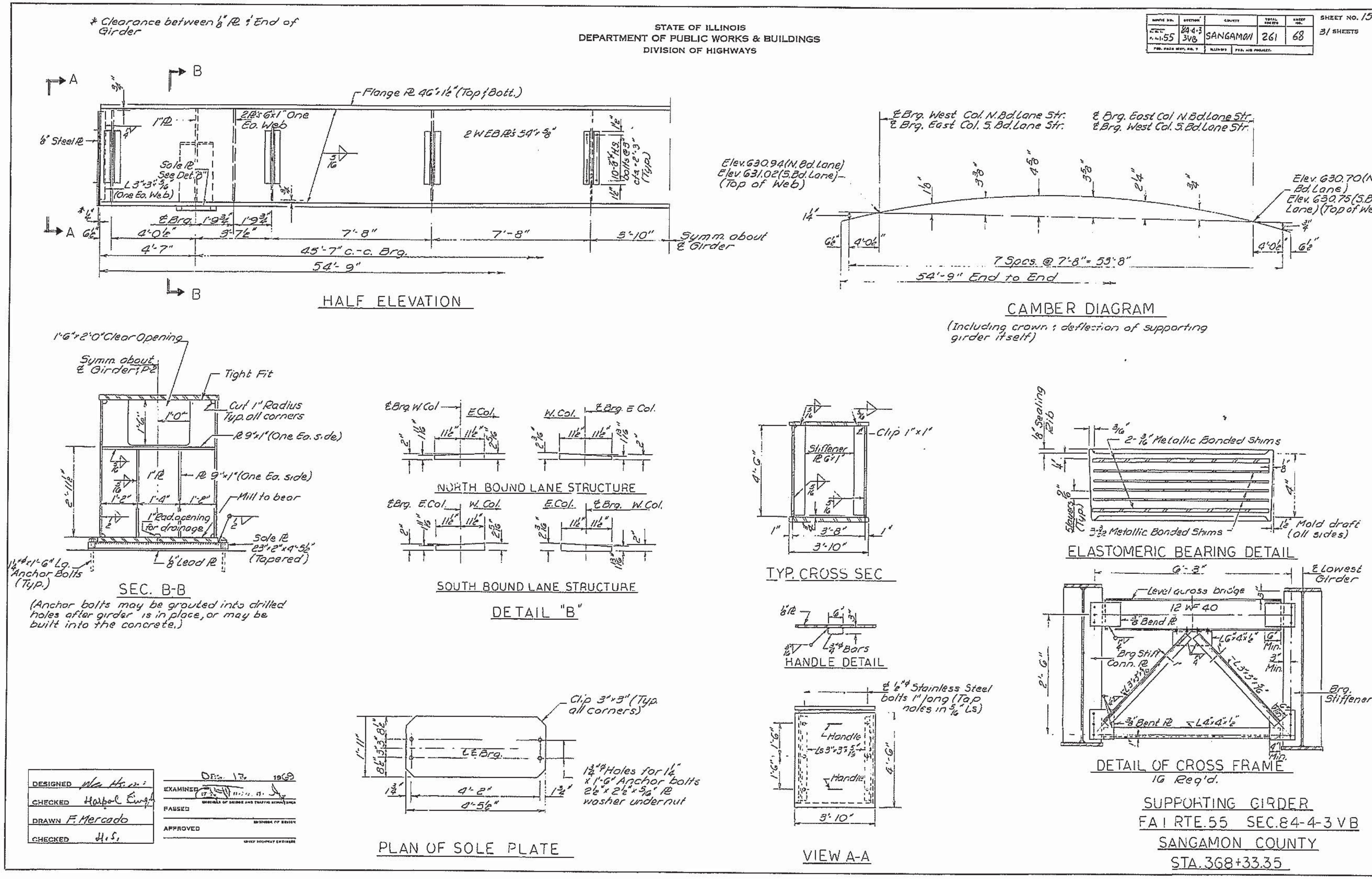
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS SN 084-0112 & 0113
(FOR INFORMATION ONLY)

SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D6 BDGE PAINTING 2016-1	*	17	14
* SANGAMON & SCOTT		CONTRACT NO. 72H88		
		ILLINOIS FED. AID PROJECT		


STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS
SHEET NO. 15
31 SHEETS
F.A.I. 55
84-4-3 3VB
SANGAMON
261
68
* Clearance between 1/8" PL & End of Girder
HALF ELEVATION
Flange PL 46"x1 1/2" (Top & Bott.)
2 WEB PLs 54"x 3/8"
Symm. about ℄ Girder
45'-7" c.-c. Brg.
54'-9"
CAMBER DIAGRAM
(Including crown & deflection of supporting girder itself)
7 Spcs. @ 7'-8" = 53'-8"
54'-9" End to End
SEC. B-B
(Anchor bolts may be grouted into drilled holes after girder is in place, or may be built into the concrete.)
NORTH BOUND LANE STRUCTURE
SOUTH BOUND LANE STRUCTURE
DETAIL "B"
TYP. CROSS SEC
HANDLE DETAIL
VIEW A-A
ELASTOMERIC BEARING DETAIL
DETAIL OF CROSS FRAME
16 Req'd.
PLAN OF SOLE PLATE
SUPPORTING GIRDER
FAI RTE. 55 SEC. 84-4-3 VB
SANGAMON COUNTY
STA. 368+33.35
DESIGNED
CHECKED
DRAWN F. Mercado
CHECKED
EXAMINED
PASSED
APPROVED

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	PLOT SCALE = 100.0000 ' / in.	DRAWN -	REVISED -			VAR.	D6 BDGE PAINTING 2016-1	*	17 / 15
Default	PLOT DATE = 7/7/2015	CHECKED -	REVISED -			* SANGAMON & SCOTT		CONTRACT NO. 72HBB	
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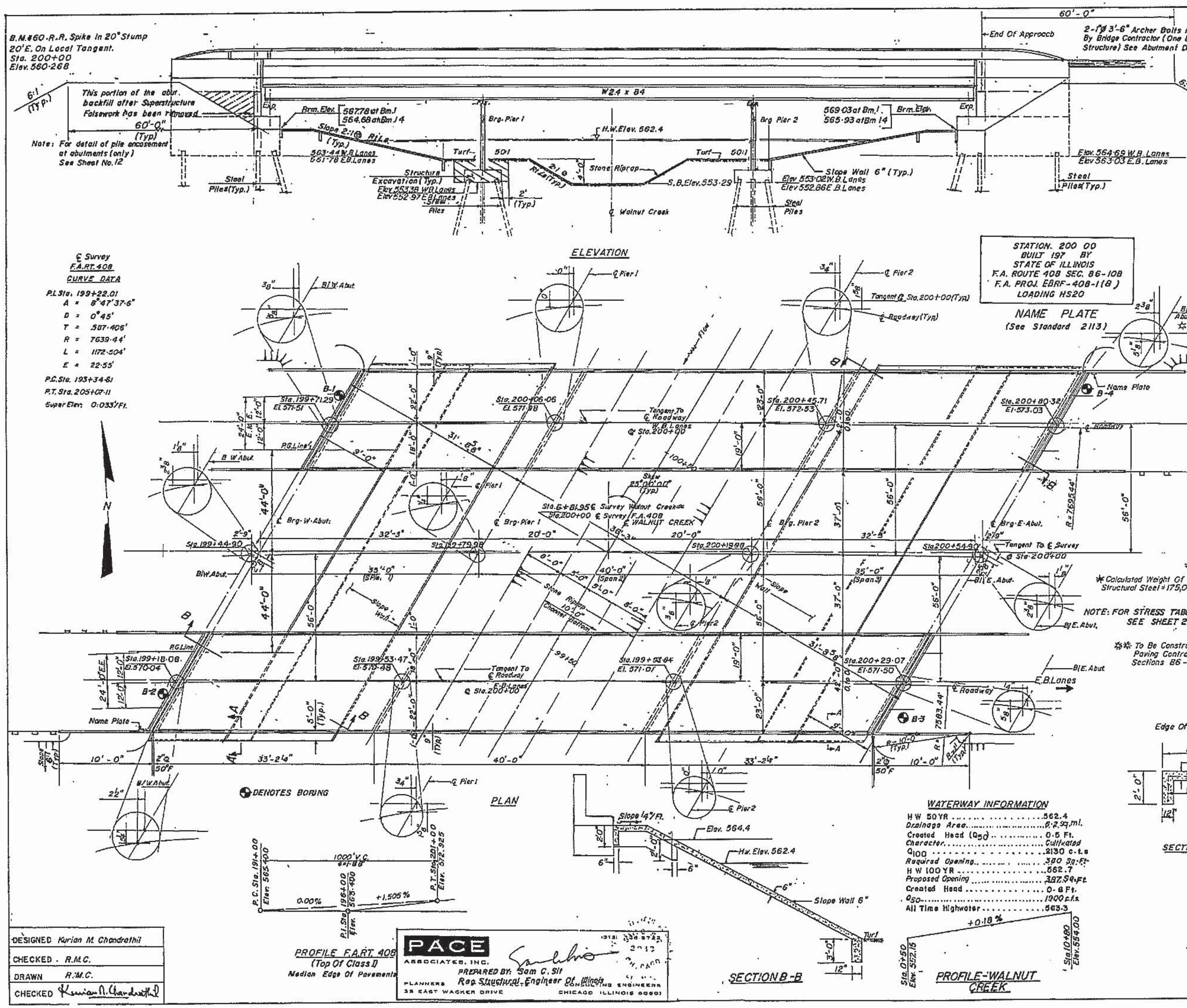


SHEET NO 1
16 SHEETS

ROUTE	SECTION	COUNTY		SHEET NO.
408	86-108	SCOTT	37	12

P-96-026-72

GENERAL NOTES:

ALL REINFORCEMENT BARS SHALL BE LAPPED 24 DIAMETERS UNLESS OTHERWISE SHOWN.

FIELD CONNECTION SHALL BE BOLTED USING HIGH STRENGTH BOLTS. BOLTS 7/8 Ø OPEN HOLES 15/16 Ø, UNLESS OTHERWISE NOTED.

THE BASIC LEAD SILICO CHROMATE PAINT SYSTEM SHALL BE USED FOR SHOP & FIELD PAINTING OF STRUCTURAL STEEL.

FIELD WELDING OF CONSTRUCTION ACCESSORIES WILL NOT BE PERMITTED TO THE BOTTOM FLANGE OF BEAMS NOR TO THE TOP FLANGE FOR A DISTANCE EQUAL TO ONE-FOURTH THE SPAN LENGTH EACH WAY FROM THE PIER SUPPORT. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.

ANCHOR BOLTS SHALL BE SET BEFORE BOLTING DIAPHRAGMS OVER SUPPORTS.

SLOPE WALL SHALL BE REINFORCED WITH WELDED WIRE FABRIC 6" X 6" MESH, WEIGHING 58# PER 100 SQ. FT.

LAYOUT OF SLOPE WALLS MAY BE VARIED IN THE FIELD TO SUIT GROUND CONDITIONS AS DIRECTED BY THE ENGINEER.

THE EMBANKMENT CONFIGURATION SHOWN SHALL BE THE MINIMUM EMBANKMENT THAT MUST BE CONSTRUCTED PRIOR TO CONSTRUCTION OF THE ABUTMENTS.

THE CONTRACTOR SHALL DRIVE TWO TEST PILES ONE EACH AT PIER 1, EAST BOUND LANES, AND PIER 2, WEST BOUND LANES IN PERMANENT LOCATIONS AS DIRECTED BY THE ENGINEER BEFORE ORDERING THE REMAINDER OF THE PILES.

THE CONCRETE RAIL SECTION ABOVE THE MANDATORY CONSTRUCTION JOINT AT THE TOP OF THE SLAB SHALL BE CONSTRUCTED OF CLASS X CONCRETE, EXCEPT THE AGGREGATES SHALL CONFORM TO THE REQUIREMENTS OF HANDRAIL CONCRETE.

☆☆ PROTECTIVE COAT SHALL NOT BE APPLIED TO SURFACES TO WHICH WATER PROOFING MEMBRANE SYSTEM IS APPLIED.

BEARING SEAT SURFACES SHALL BE CONSTRUCTED OR ADJUSTED 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" ADJUSTED SHIMS, OF THE DIMENSIONS OF THE BOTTOM BEARING PLATE, SHALL BE PROVIDED FOR EACH BEARING IN ADDITION TO ALL OTHER PLATES OR SHIMS.

THE MAIN LOAD CARRYING MEMBER COMPONENTS SUBJECT TO THE SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ARE THE WEBS, SPLICE PLATES, AND THE FLANGES OF THE WIDE FLANGE BEAMS.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER STRUCT.	SUB STRUCT.	TOTAL
Structure Excavation	Cu.Yds	—	180	180
** Bituminous Concrete Surface Course, Class I	Tons	73.8	—	73.8
Class A Concrete	Cu.Yds	—	254.3	254.3
Class X Concrete	Cu.Yds	278.3	177.6	455.9
* Structural Steel	L.Sum	L.S.	—	L.S.
Aluminum Railing	Lin.Ft.	498	—	498
Steel Piles (HP 10 X 42)	Lin.Ft.	—	4110	4110
Reinforcement Bars	Lbs.	62270	30970	93240
** Water Proofing Membrane System	Sq.Yds	912	—	912
Preformed Joint Sealer (2½")	Lin.Ft.	93	—	93
Test Pile Steel (HP 10 X 42)	Each	—	2	2
Name Plates	Each	2	—	2
Slope Wall 6 Inch	Sq.Yds.	—	725	725
☆☆ Protective Coat	Sq.Yds	212	—	212

NOTES:

DESIGN LOADING

HS 20-44 And Allowance For 25 P.S.F. Future Wearing Surface.

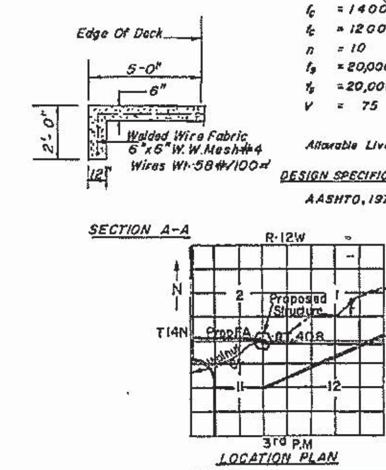
DESIGN STRESSES

f_c = 1400 P.S.I. Except As Follows:
f_c = 1200 P.S.I. For Deck Slab
n = 10
f_s = 20,000 P.S.I. For M183 Structural Steel
f_s = 20,000 P.S.I. For Reinforcement Steel
V = 75 P.S.I. Allowable Shear In Footings

Allowable Live Load Deflection = L/1000 (Non-Composite)

DESIGN SPECIFICATIONS:

AASHTO, 1973 As Applicable



APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Engineer of Bridge & Traffic Structures

GENERAL PLAN & ELEVATION
ILLINOIS DEPARTMENT OF TRANSPORTATION
Project: EBRF-408-1 (8)
F.A. ROUTE 408 - SEC 86-108
F.A. 408 OVER WALNUT CREEK

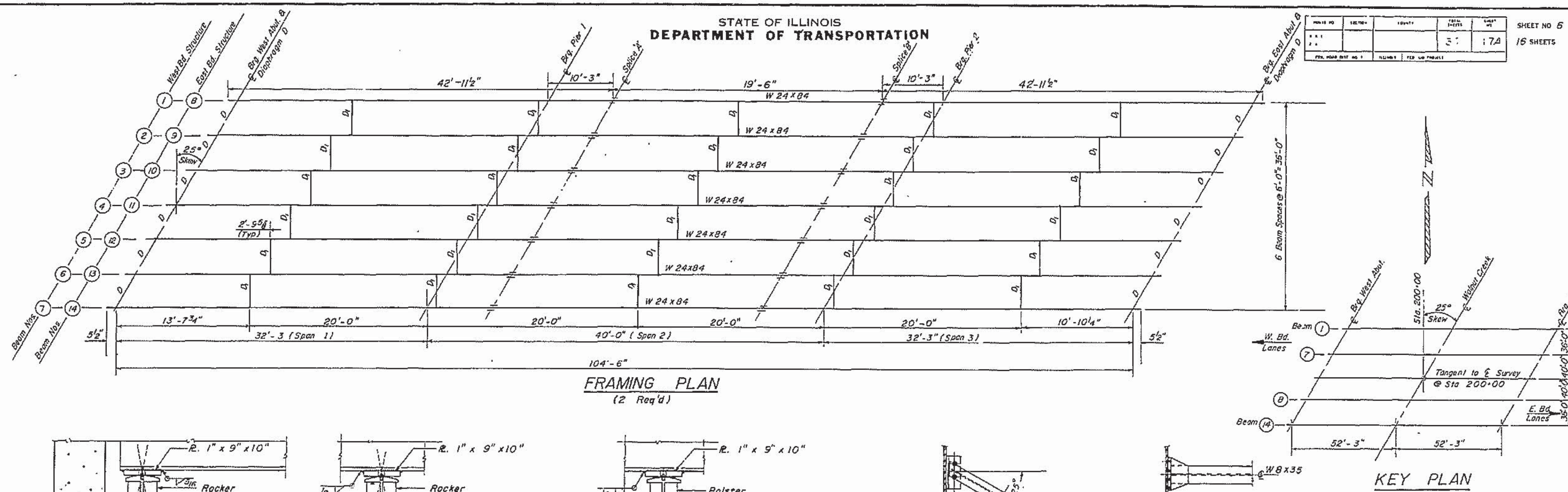
SCOTT COUNTY
STATION 200+00

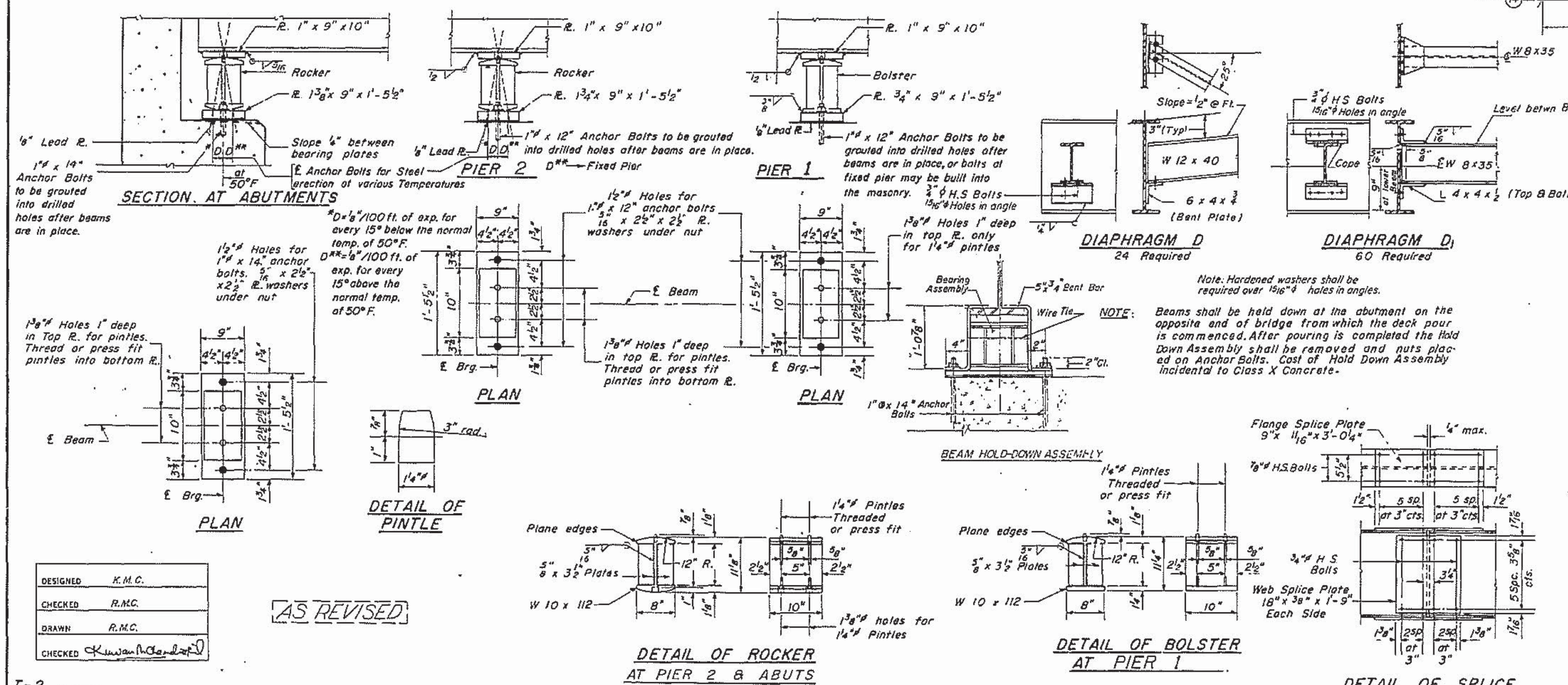
Rev. 8-25-75
Rev. 10-15-75

FILE NAME = D:\OPERATIONS\Bridges\Bridgeplans_CAD\72H88 - Sangamon & Scott County paint 2016\p...	USER NAME = dudleybm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS SN 086-0023 & 0024 (FOR INFORMATION ONLY)	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			VAR.	D6 BDGE PAINTING 2016-1	•	17	16
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -				• SANGAMON & SCOTT	CONTRACT NO. 72H88		
Default	PLOT DATE = 7/7/2015	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO 6
15 SHEETS





*ELEVATIONS - TOP OF BEAMS

Beam No.	℄ Brg. W. Abut. (Location)	℄ Brg. Pier 1	℄ Splice 'A'	℄ Splice 'B'	℄ Brg. Pier 2	℄ Brg. E Abut.
1	571.53	571.92	572.04	572.20	572.39	573.00
2	571.29	571.68	571.80	571.95	572.15	572.76
3	571.05	571.44	571.56	571.72	571.91	572.52
4	570.81	571.20	571.32	571.48	571.67	572.28
5	570.57	570.96	571.08	571.24	571.43	572.04
6	570.33	570.72	570.84	571.00	571.19	571.80
7	570.09	570.48	570.60	570.76	570.95	571.55
8	569.87	570.26	570.38	570.54	570.73	571.34
9	569.63	570.02	570.14	570.30	570.49	571.10
10	569.39	569.78	569.90	570.06	570.25	570.86
11	569.15	569.54	569.66	569.82	570.01	570.62
12	568.91	569.30	569.42	569.58	569.77	570.38
13	568.67	569.06	569.18	569.34	569.53	570.14
14	568.43	568.82	568.94	569.10	569.29	569.90

*For Fabrication Only

ILLINOIS DEPARTMENT OF TRANSPORTATION
STRUCTURAL STEEL
F.A. ROUTE 408 SECTION 86-108
F.A. 408 OVER WALNUT CREEK
SCOTT COUNTY
STATION 200+00.00

DESIGNED	K.M.C.
CHECKED	R.M.C.
DRAWN	R.M.C.
CHECKED	[signature]

AS REVISED

I-2 4-15-73

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Default	PLOT DATE = 7/7/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS SN 086-0023 & 0024
(FOR INFORMATION ONLY)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D6 BDGE PAINTING 2016-1	*	17	17
	* SANGAMON & SCOTT	CONTRACT NO. 72H88		
	ILLINOIS FED. AID PROJECT			