11-08-2024 LETTING ITEM 051

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	1
	ILLINOIS	CONTRACT NO. 70G13		

* DOUGLAS & VERMILION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED
HIGHWAY PLANS

VARIOUS ROUTES
SECTION D5 BRIDGE PAINTING 2025-1
BRIDGE PAINTING
DOUGLAS & VERMILION COUNTIES

C-95-051-22

VARIOUS LOCATIONS IN DOUGLAS & VERMILION COUNTIES

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR SUMMARY OF QUANTITIES, SEE SHEET NOS. 5 - 8

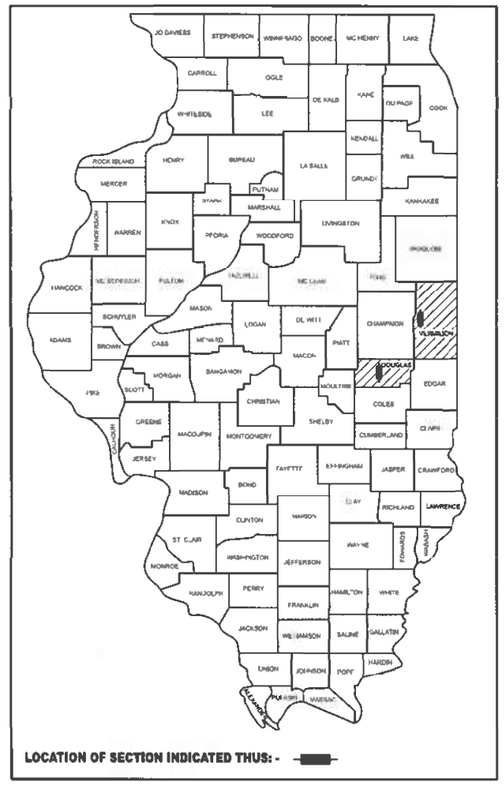
CURRENT TRAFFIC DATA

LOC. #1	LOC. #2	LOC. #3	LOC. #4	LOC. #5	LOC. #6
20,300	20,300	20,300	20,300	22,100	22,100
2024 (I-57)	2024 (I-57)	2024 (I-57)	2024 (I-57)	2024 (I-57)	2024 (I-57)

LOC. #7	LOC. #8	LOC. #9	LOC. #10	LOC. #11 & #12	LOC. #13
22,100	25,200	1,350	3,350	2,000	225
2024 (I-57)	2024 (I-74)	2024 (IL 49)	2024 (US 36)	2024 (IL 130)	2024 (MAIN ST)

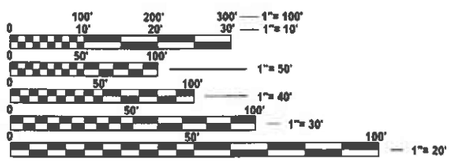
LOC. #1 S.N. 021-0041 - FAI 57 @ M.P. 204.5, 1.0 MI. NORTH OF IL 133
LOC. #2 S.N. 021-0037 - FAI 57 @ M.P.. 207.5, 0.5 MI. EAST OF GALTON
LOC. #3 S.N. 021-0046 - FAI 57 @ M.P.. 208.8, 1.25 MI. NORTH OF GALTON
LOC. #4 S.N. 021-0045 - FAI 57 @ m.p. 209.9, 1.75 MI. SOUTH OF US 36
LOC. #5 S.N. 021-0044 - FAI 57 @ M.P.. 212.6, 1.0 MI. NORTH OF US 36
LOC. #6 S.N. 021-0043 - FAI 57 @ M.P.. 214.6, 3.0 MI. NORTH OF US 36
LOC. #7 S.N. 021-0034 - FAI 57 @ M.P. 216.6, 5.0 MI. NORTH OF US 36
LOC. #8 S.N. 092-0203 - FAI 74 @ M.P. 199.8, 1.5 MI. NW OF FITHIAN
LOC. #9 S.N. 092-0101 - IL 49 (FAP 840) OVER UPRR, 1.8 MI. NORTH OF US 136
LOC. #10 S.N. 021-0018 - US 36 (FAP 323) OVER KASKASKIA RIVER, 4.0 MI. WEST OF US 45
LOC. #11 S.N. 021-0049 - IL 130 (FAP 820) OVER DEER CREEK, 2.1 MI. NORTH OF IL 133
LOC. #12 S.N. 021-0031 - IL 130 (FAP 820) OVER SCATTERING FORK, 3.4 MI. SOUTH OF US 36
LOC. #13 S.N. 021-0039 - MAIN ST OVER EMBARRAS RIVER, CAMARGO - 0.55 MI WEST OF IL 130

D-95-031-22



LOCATION OF SECTION INDICATED THUS: -

FOR LOCATION MAP, SEE SHEETS 3 - 4



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

PROJECT ENGINEER: JASON STULTS
SQUAD LEADER: GREG EAGLIN
DESIGNER: JASON LEE
PHONE: (217)465-4181

CONTRACT NO. 70G13

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 8/12 2024
Kenneth A. Barnett SEW
REGIONAL ENGINEER

October 4, 2024
ENGINEER OF DESIGN AND ENVIRONMENT

October 4, 2024
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, HIGHWAY STANDARDS, & GENERAL NOTES
3	STRUCTURE LOCATION MAP LOCATIONS - DOUGLAS COUNTY
4	STRUCTURE LOCATION MAP LOCATIONS - VERMILION COUNTY
5-8	SUMMARY OF QUANTITIES
9	TRAFFIC CONTROL SUMMARY
10-16	DESCRIPTIONS OF WORK FOR LOCATIONS 1-13
17-19	LOCATION #1 STRUCTURE DETAILS
20-22	LOCATION #2 STRUCTURE DETAILS
23-25	LOCATION #3 STRUCTURE DETAILS
26-28	LOCATION #4 STRUCTURE DETAILS
29-31	LOCATION #5 STRUCTURE DETAILS
32-34	LOCATION #6 STRUCTURE DETAILS
35-37	LOCATION #7 STRUCTURE DETAILS
38-43	LOCATION #8 STRUCTURE DETAILS
44-49	LOCATION #9 STRUCTURE DETAILS
50-54	LOCATION #10 STRUCTURE DETAILS
55-58	LOCATION #11 STRUCTURE DETAILS
59-62	LOCATION #12 STRUCTURE DETAILS
63-65	LOCATION #13 STRUCTURE DETAILS
66	DETAIL FOR TEMPORARY RUMBLE STRIPS (SPECIAL)

HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
701321-18	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701400-12	APPROACH TO LANE CLOSURE, FREEWAY / EXPRESSWAY
701402-12	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45 MPH
701428-01	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY / EXPRESSWAY
701901-09	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

GENERAL NOTES

G.N.-100A
ELECTRONIC FILES AND/OR ELECTRONIC SURVEY INFORMATION INCLUDING CADD FILES WILL NOT BE AVAILABLE TO THE CONTRACTOR

G.N.-107.12
THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE LOCAL RAILROAD CONTACT IS:

LEO CRAIG
ASSOCIATE PROJECT MANAGER / RAIL
250 COMMERCE SUITE 220
IRVINE, CA 92602
lcraig@olsson.com

SPECIAL ATTENTION IS CALLED TO ARTICLE 107.12 REGARDING RAILROAD FLAGGERS. THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE RAILROAD FLAGGER CONTACT IS:

LEO CRAIG
817.901.9560
lcraig@olsson.com

G.N.-501A
THE EXISTING STRUCTURAL STEEL COATING CONTAINS LEAD. THE CONTRACTOR SHALL FOLLOW THE GUIDE BRIDGE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES" TO DEAL WITH THE PRESENCE OF LEAD ON THIS PROJECT.

G.N.-506 (SPL.)
ALL FINAL SURFACES OF THE BEAMS SHALL BE PAINTED GRAY (MUNSELL COLOR STANDARD - 5B 7/1). IN SOME CASES THE EXTERIOR SURFACES OF THE EXTERIOR BEAMS SHALL BE PAINTED WITH EITHER INTERSTATE GREEN (MUNSELL COLOR STANDARD 7.5G 4/8) OR REDDISH BROWN (MUNSELL COLOR STANDARD 2.5YR 3/4) AS SPECIFIED UNDER THE DESCRIPTION FOR EACH STRUCTURE.

ONLY STRUCTURAL STEEL AND OTHER DESIGNATED SURFACES SHALL BE PAINTED. ALL OTHER SURFACES SHALL BE PROTECTED FROM CONTRACTORS BLASTING AND PAINTING OPERATIONS. ANY AREAS DAMAGED BY BLASTING OR OVERSPRAY WILL BE REMOVED OR REPAIRED AT THE CONTRACTOR'S EXPENSE AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

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 CONTRACTORS EXPENSE.

THE SSPC-QP1 AND QP2 PAINTING CONTRACTOR CERTIFICATIONS WILL BE REQUIRED FOR THIS CONTRACT.

ALL TRASH AND PAINTING DEBRIS, EXCLUDING WASTE BARRELS OR ROLL-OFF DUMPSTERS, SHALL BE REMOVED BEFORE BEGINNING WORK AT ANOTHER LOCATION.

2 YEAR PAINT WARRANTY REQUIRED FOR ALL STRUCTURES

COMMITMENTS
THERE ARE NO COMMITMENTS ON THIS PROJECTS

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	DRAWN -	REVISED -	**DEPARTMENT OF TRANSPORTATION**
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/12/2024	DATE -	REVISED -	

INDEX OF SHEETS, HIGHWAY STANDARDS & GENERAL NOTES

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

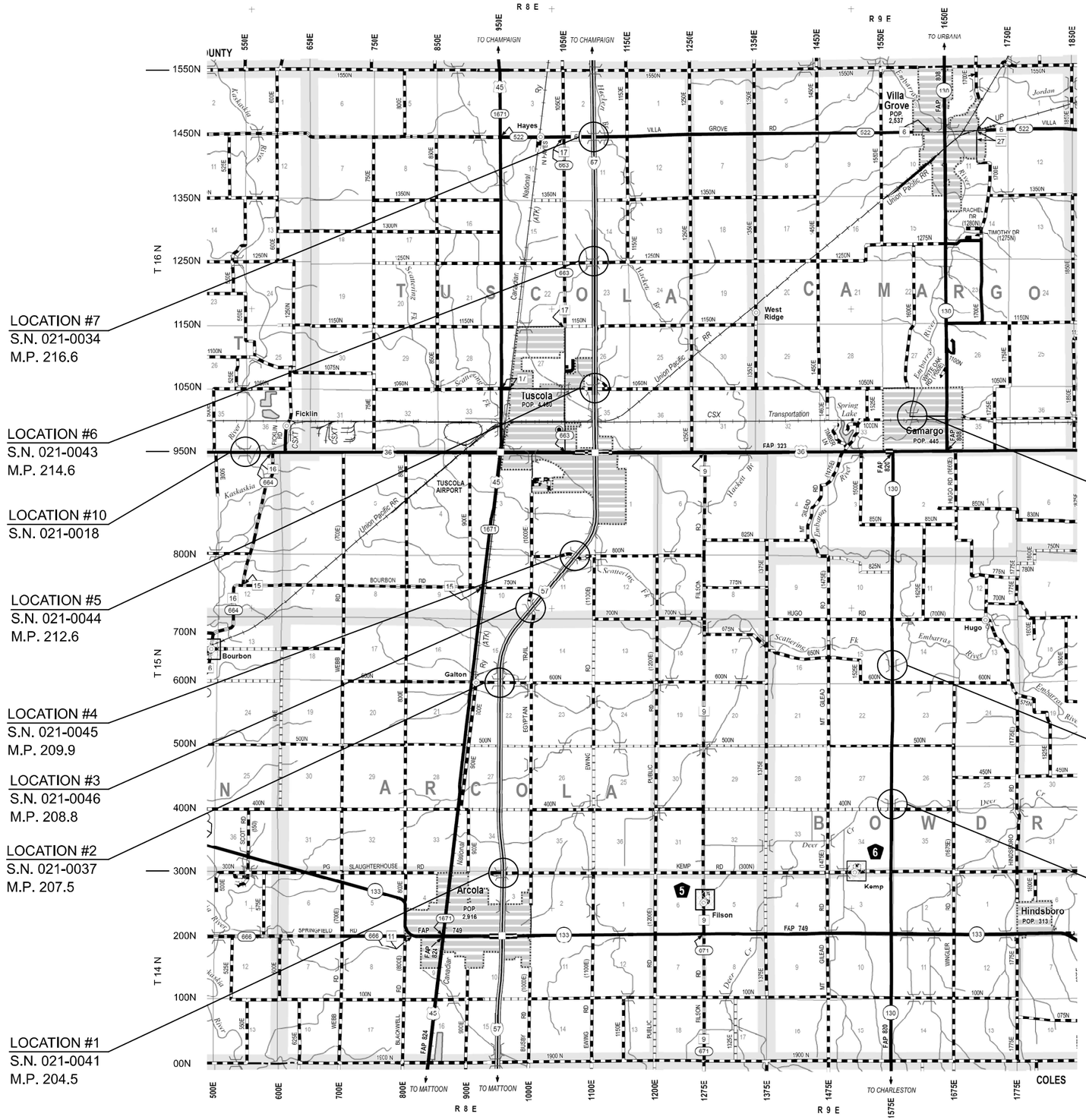
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	2
* DOUGLAS & VERMILION		CONTRACT NO. 70G13		
ILLINOIS	FED. AID PROJECT			

REV. 9/30/24

DOUGLAS COUNTY

TOWNSHIPS
TUSCOLA
GARRETT
ARCOLA
CAMARGO
BOWDRE

SCALE FOR MAIN MAP



USER NAME = Steven.Wood	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURE LOCATION MAP DOUGLAS COUNTY	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -			VAR.	D5 BRIDGE PAINTING 2025-1	*	66	3
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -			* DOUGLAS & VERMILION		CONTRACT NO. 70G13		
PLOT DATE = 8/12/2024	DATE -	REVISED -		SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.	ILLINOIS	FED. AID PROJECT			

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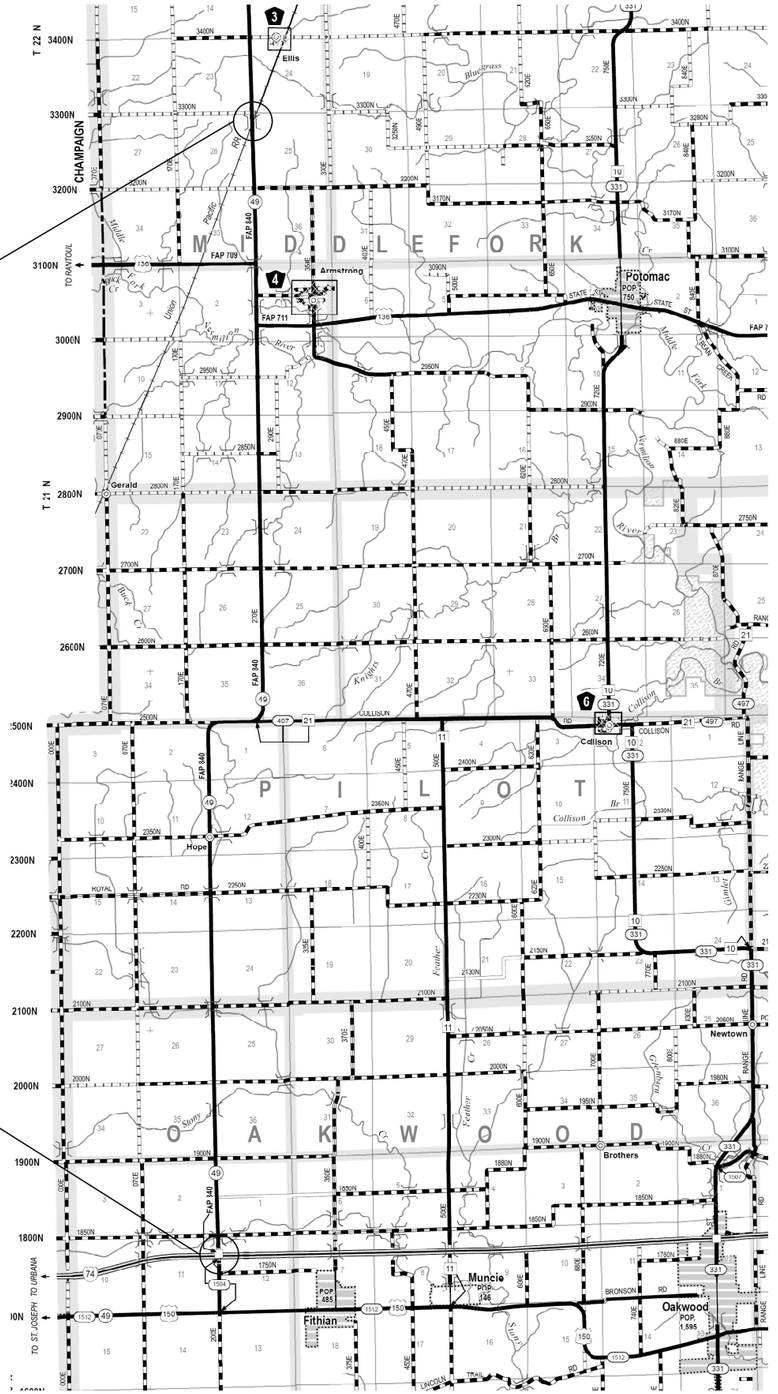
VERMILION COUNTY



TOWNSHIPS
OAKWOOD
MIDDLEFORK

SCALE FOR MAIN MAP

0 1 2 3 4 5 Miles
0 5,000 10,000 15,000 20,000 25,000 Feet
0 1 2 3 4 5 6 7 8 Kilometers

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PLOT DATE = 8/12/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE LOCATION MAP
VERMILION COUNTY

SCALE: | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	4
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES

LOCATION OF WORK:	LOC. #1	LOC. #2	LOC. #3	LOC. #4	LOC. #5	LOC. #6	LOC. #7	LOC. #8	LOC. #9	LOC. #10	LOC. #11	LOC. #12	LOC. #13
	FAI 57	FAI 57	FAI 57	FAI 57	FAI 57	FAI 57	FAI 57	FAI 74	FAP 840	FAP 323	FAP 820	FAP 820	MAIN ST
	S.N.	S.N.	S.N.	S.N.	S.N.	S.N.	S.N.	S.N.	S.N.	S.N.	S.N.	S.N.	S.N.
	021-0041	021-0037	021-0046	021-0045	021-0044	021-0043	021-0034	092-0203	092-0101	021-0018	021-0049	021-0031	021-0039
COUNTY:	DOUGLAS	DOUGLAS	DOUGLAS	DOUGLAS	DOUGLAS	DOUGLAS	DOUGLAS	VERMILION	VERMILION	DOUGLAS	DOUGLAS	DOUGLAS	DOUGLAS
	RURAL	RURAL	RURAL	RURAL	RURAL	RURAL	RURAL	RURAL	RURAL	RURAL	RURAL	RURAL	RURAL
FUNDING BREAKOUT:	100% STATE	100% STATE	100% STATE	100% STATE	100% STATE	100% STATE	100% STATE	100% STATE	100% STATE	100% STATE	100% STATE	100% STATE	100% STATE
CONSTRUCTION TYPE CODE:	0047	0047	0047	0047	0047	0047	0047	0047	0047	0047	0047	0047	0047

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
67100100	MOBILIZATION	L SUM	1.00	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.07
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	32.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0					
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	5.0	1.0				2.0			2.0					
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1.0									0.2	0.2	0.2	0.2	0.2
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	42.0	7.0			7.0	7.0		7.0	14.0					
70400100	TEMPORARY CONCRETE BARRIER	FOOT	4800.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0					
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	4800.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0					
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	16.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0					
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	16.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0					
X7010118	TEMPORARY RUMBLE STRIPS (SPECIAL)	EACH	96.0	16.0	12.0	8.0	12.0	12.0	8.0	12.0	16.0					
X5060608	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 8	L SUM	1.0								1.0					
X5060609	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 9	L SUM	1.0									1.0				

* DENOTES SPECIALTY ITEM

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	DRAWN -	REVISED -	**DEPARTMENT OF TRANSPORTATION**
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PLOT DATE = 8/12/2024	DATE -	REVISED -	

SUMMARY OF QUANTITIES

SCALE: NONE | SHEET 1 OF 4 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	5
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
	ILLINOIS FED. AID PROJECT			

REV. 9/30/24

SUMMARY OF QUANTITIES

LOCATION OF WORK:	LOC. #1	LOC. #2	LOC. #3	LOC. #4	LOC. #5	LOC. #6	LOC. #7	LOC. #8	LOC. #9	LOC. #10	LOC. #11	LOC. #12	LOC. #13
	FAI 57	FAI 57	FAI 57	FAI 57	FAI 57	FAI 57	FAI 57	FAI 74	FAP 840	FAP 323	FAP 820	FAP 820	MAIN ST
	S.N.	S.N.	S.N.	S.N.	S.N.	S.N.	S.N.	S.N.	S.N.	S.N.	S.N.	S.N.	S.N.
	021-0041	021-0037	021-0046	021-0045	021-0044	021-0043	021-0034	092-0203	092-0101	021-0018	021-0049	021-0031	021-0039
COUNTY:	DOUGLAS	DOUGLAS	DOUGLAS	DOUGLAS	DOUGLAS	DOUGLAS	DOUGLAS	VERMILION	VERMILION	DOUGLAS	DOUGLAS	DOUGLAS	DOUGLAS
	RURAL	RURAL	RURAL	RURAL	RURAL	RURAL	RURAL	RURAL	RURAL	RURAL	RURAL	RURAL	RURAL
FUNDING BREAKOUT:	100% STATE	100% STATE	100% STATE	100% STATE	100% STATE	100% STATE	100% STATE	100% STATE	100% STATE	100% STATE	100% STATE	100% STATE	100% STATE
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
X5060610	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 12	L SUM	1.0												1.0	
X5060611	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 10	L SUM	1.0										1.0			
X5067501	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 1	L SUM	1.0	1.0												
X5067502	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 2	L SUM	1.0		1.0											
X5067503	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 3	L SUM	1.0			1.0										
X5067504	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 4	L SUM	1.0				1.0									
X5067505	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 5	L SUM	1.0					1.0								
X5067506	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 6	L SUM	1.0						1.0							
X5067507	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 7	L SUM	1.0							1.0						
X5067508	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 8	L SUM	1.0								1.0					
X5067511	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 11	L SUM	1.0											1.0		
X5067512	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 12	L SUM	1.0												1.0	
* DENOTES SPECIALTY ITEM																

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	DRAWN -	REVISED -	
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -	
PLOT DATE = 8/12/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE | SHEET 2 OF 4 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	6
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

LOCATION OF WORK:	LOC. #1	LOC. #2	LOC. #3	LOC. #4	LOC. #5	LOC. #6	LOC. #7	LOC. #8	LOC. #9	LOC. #10	LOC. #11	LOC. #12	LOC. #13
	FAI 57	FAI 57	FAI 57	FAI 57	FAI 57	FAI 57	FAI 57	FAI 74	FAP 840	FAP 323	FAP 820	FAP 820	MAIN ST
	S.N.	S.N.	S.N.	S.N.	S.N.	S.N.	S.N.	S.N.	S.N.	S.N.	S.N.	S.N.	S.N.
	021-0041	021-0037	021-0046	021-0045	021-0044	021-0043	021-0034	092-0203	092-0101	021-0018	021-0049	021-0031	021-0039
COUNTY:	DOUGLAS	DOUGLAS	DOUGLAS	DOUGLAS	DOUGLAS	DOUGLAS	DOUGLAS	VERMILION	VERMILION	DOUGLAS	DOUGLAS	DOUGLAS	DOUGLAS
	RURAL	RURAL	RURAL	RURAL	RURAL	RURAL	RURAL	RURAL	RURAL	RURAL	RURAL	RURAL	RURAL
FUNDING BREAKOUT:	100% STATE	100% STATE	100% STATE	100% STATE	100% STATE	100% STATE	100% STATE	100% STATE	100% STATE	100% STATE	100% STATE	100% STATE	100% STATE
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
X5067513	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 13	L SUM	1.0													1.0
Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1.0	1.0												
Z0007102	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 2	L SUM	1.0		1.0											
Z0007103	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 3	L SUM	1.0			1.0										
Z0007104	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 4	L SUM	1.0				1.0									
Z0007105	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 5	L SUM	1.0					1.0								
Z0007106	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 6	L SUM	1.0						1.0							
Z0007107	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 7	L SUM	1.0							1.0						
Z0007111	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 11	L SUM	1.0											1.0		
Z0007113	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 13	L SUM	1.0													1.0
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1.0	1.0												
Z0010502	CLEANING AND PAINTING STEEL BRIDGE NO. 2	L SUM	1.0		1.0											

* DENOTES SPECIALTY ITEM

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FILE NAME: pw:\\bdot-pw.bentley.com:PWBDOT\Documents\IDOT Offices\District 5\ORD Projects\D570G13\CADData\CADsheets\D570G13-sht-5OQ.dgn

USER NAME = Steven.Wood	DESIGNED -	REVISED -	**STATE OF ILLINOIS**
	DRAWN -	REVISED -	**DEPARTMENT OF TRANSPORTATION**
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/12/2024	DATE -	REVISED -	

SUMMARY OF QUANTITIES

SCALE: NONE | SHEET 3 OF 4 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	7
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES

LOCATION OF WORK:	LOC. #1	LOC. #2	LOC. #3	LOC. #4	LOC. #5	LOC. #6	LOC. #7	LOC. #8	LOC. #9	LOC. #10	LOC. #11	LOC. #12	LOC. #13
	FAI 57	FAI 57	FAI 57	FAI 57	FAI 57	FAI 57	FAI 57	FAI 74	FAP 840	FAP 323	FAP 820	FAP 820	MAIN ST
	S.N.	S.N.	S.N.	S.N.	S.N.	S.N.	S.N.	S.N.	S.N.	S.N.	S.N.	S.N.	S.N.
	021-0041	021-0037	021-0046	021-0045	021-0044	021-0043	021-0034	092-0203	092-0101	021-0018	021-0049	021-0031	021-0039
COUNTY:	DOUGLAS	DOUGLAS	DOUGLAS	DOUGLAS	DOUGLAS	DOUGLAS	DOUGLAS	VERMILION	VERMILION	DOUGLAS	DOUGLAS	DOUGLAS	DOUGLAS
	RURAL	RURAL	RURAL	RURAL	RURAL	RURAL	RURAL	RURAL	RURAL	RURAL	RURAL	RURAL	RURAL
FUNDING BREAKOUT:	100% STATE	100% STATE	100% STATE	100% STATE	100% STATE	100% STATE	100% STATE	100% STATE	100% STATE	100% STATE	100% STATE	100% STATE	100% STATE
CONSTRUCTION TYPE CODE:	0047	0047	0047	0047	0047	0047	0047	0047	0047	0047	0047	0047	0047

	CODE NO.		ITEM	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
	Z0010503		CLEANING AND PAINTING STEEL BRIDGE NO. 3	L SUM	1.0			1.0									
	Z0010504		CLEANING AND PAINTING STEEL BRIDGE NO. 4	L SUM	1.0				1.0								
	Z0010505		CLEANING AND PAINTING STEEL BRIDGE NO. 5	L SUM	1.0					1.0							
	Z0010506		CLEANING AND PAINTING STEEL BRIDGE NO. 6	L SUM	1.0						1.0						
	Z0010507		CLEANING AND PAINTING STEEL BRIDGE NO. 7	L SUM	1.0							1.0					
	Z0010508		CLEANING AND PAINTING STEEL BRIDGE NO. 8	L SUM	1.0								1.0				
	Z0010509		CLEANING AND PAINTING STEEL BRIDGE NO. 9	L SUM	1.0									1.0			
	Z0010510		CLEANING AND PAINTING STEEL BRIDGE NO. 10	L SUM	1.0										1.0		
	Z0010511		CLEANING AND PAINTING STEEL BRIDGE NO. 11	L SUM	1.0											1.0	
	Z0010512		CLEANING AND PAINTING STEEL BRIDGE NO. 12	L SUM	1.0												1.0
	Z0010513		CLEANING AND PAINTING STEEL BRIDGE NO. 13	L SUM	1.0												1.0
	Z0048665		RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1.0									1.0			
* DENOTES SPECIALTY ITEM																	

MODEL: $MODELNAME$
FILE NAME: pw:///dot-ew.bentley.com:PWDOT/Documents/IDOT Offices/District 5/ORD Projects/D5705913/CADData/CADsheets/D5705913-sht-SOQ.dgn

USER NAME = Steven.Wood	DESIGNED -	REVISED -	**STATE OF ILLINOIS**
	DRAWN -	REVISED -	**DEPARTMENT OF TRANSPORTATION**
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -	SUMMARY OF QUANTITIES
PLOT DATE = 8/12/2024	DATE -	REVISED -	SCALE: NONE | SHEET 4 OF 4 SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	8
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
	ILLINOIS | FED. AID PROJECT			

TRAFFIC CONTROL SUMMARY

Location	Structure	Direction	Lane	70100450 TC&P Std. 701201 L Sum	70100207 TC&P Std. 701402 Each	no pay item TC&P Std. 701400 not measured for payment included with 701402	70100420 TC&P Std. 701411 Each	70400100 Temp Conc Barrier Foot	70400200 Relocate Temp Conc Barrier Foot	70600250 Impact Atten Test Level 3 Each	70600350 Relocate Imp Att, TL 3 Each	70107025 Changeable Message Sign Cal Day	X2700001 Temp Rumble Strip * Each
# 1	021-0041	NB	DL	-	1.0	on I-57 NB	1.0	300	-	1.0	-	7 day advance notice	8.0
		NB	PL	-	1.0		-	-	300	-	1.0		
	021-0041	SB	DL	-	1.0	on I-57 SB	-	300	-	1.0	-	0 - covered by 021-0045	8.0
		SB	PL	-	1.0		-	-	300	-	1.0		
# 2	021-0037	NB	DL	-	1.0	on I-57 NB	-	300	-	1.0	-	0 - covered by 021-0041	8.0
		NB	PL	-	1.0		-	-	300	-	1.0		
	021-0037	SB	DL	-	1.0	on I-57 SB	-	300	-	1.0	-	0 - covered by 021-0045	* 4.0
		SB	PL	-	1.0		-	-	300	-	1.0		
# 3	021-0046	NB	DL	-	1.0	on I-57 NB	-	300	-	1.0	-	0 - covered by 021-0041	* 4.0
		NB	PL	-	1.0		-	-	300	-	1.0		
	021-0046	SB	DL	-	1.0	on I-57 SB	-	300	-	1.0	-	0 - covered by 021-0045	* 4.0
		SB	PL	-	1.0		-	-	300	-	1.0		
# 4	021-0045	NB	DL	-	1.0	on I-57 NB	-	300	-	1.0	-	0 - covered by 021-0041	* 4.0
		NB	PL	-	1.0		-	-	300	-	1.0		
	021-0045	SB	DL	-	1.0	on I-57 SB	-	300	-	1.0	-	7 day advance notice	8.0
		SB	PL	-	1.0		-	-	300	-	1.0		
# 5	021-0044	NB	DL	-	1.0	on I-57 NB	2.0	300	-	1.0	-	7 day advance notice	8.0
		NB	PL	-	1.0		-	-	300	-	1.0		
	021-0044	SB	DL	-	1.0	on I-57 SB	-	300	-	1.0	-	0 - covered by 021-0034	* 4.0
		SB	PL	-	1.0		-	-	300	-	1.0		
# 6	021-0043	NB	DL	-	1.0	on I-57 NB	-	300	-	1.0	-	0 - covered by 021-0044	* 4.0
		NB	PL	-	1.0		-	-	300	-	1.0		
	021-0043	SB	DL	-	1.0	on I-57 SB	-	300	-	1.0	-	0 - covered by 021-0034	* 4.0
		SB	PL	-	1.0		-	-	300	-	1.0		
# 7	021-0034	NB	DL	-	1.0	on I-57 NB	-	300	-	1.0	-	0 - covered by 021-0044	* 4.0
		NB	PL	-	1.0		-	-	300	-	1.0		
	021-0034	SB	DL	-	1.0	on I-57 SB	-	300	-	1.0	-	7 day advance notice	8.0
		SB	PL	-	1.0		-	-	300	-	1.0		
# 8	092-0203	EB	DL	-	1.0	on I-74 EB	1.0	300	-	1.0	-	7 day advance notice	8.0
		EB	PL	-	1.0		-	-	300	-	1.0		
	092-0203	WB	DL	-	1.0	on I-74 WB	1.0	300	-	1.0	-	7 day advance notice	8.0
		WB	PL	-	1.0		-	-	300	-	1.0		
# 9	092-0101	-	-	0.20	It is anticipated that the contractor will be able to paint the contract zone limits from the NW & SE quadrants to limit time on the road. The state property in NE quadrant can also be used by the contractor.								
# 10	021-0018	-	-	0.20	Beam Ends Only - It is anticipated that the contractor will be able to paint the beam ends from the NW, SW, & SE quadrants to limit time on the road.								
# 11	021-0049	-	-	0.20	Entire Structure - Ditches are fairly steep. Not sure if the contractor can use any quadrants for off-road access. Working from the road and flagging with 701201 may be necessary.								
# 12	021-0031	-	-	0.20	Entire Structure - It is anticipated that the contractor will be able to stage and paint from the NE quadrant to limit time on the road.								
# 13	021-0039	-	-	0.20	Entire Structure - It is anticipated that the contractor will be able to stage and paint from the SW quadrant to limit time on the road.								
			TOTALS	1.0	32.0		5.0	4800	4800	16.0	16.0	42.0	96.0

* For consecutive overheads along I-57, the 1.5 mile rumble strips may be used as the advanced rumble strips at the next bridge - to be determined by the engineer.

MODEL: $MODELNAME$
FILE NAME: pw:\\ilsos-pw.bentley.com:PWIDOT\Documents\IDOT Offices-District 5\ORD Projects-D570G13\CADData\CADSheets\D570G13-Sht-Traffic_Control.dgn

USER NAME = Steven.Wood	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -
PLOT DATE = 8/12/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SUMMARY

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	9
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
	ILLINOIS FED. AID PROJECT			

LOCATION #1

DESCRIPTION:	TR 157D / CR 300N OVER I-57 - 1 mi. N of IL 133 @ m.p. 204.5
COUNTY:	DOUGLAS
ROUTE:	F.A.I. 57
MARKED ROUTE:	I-57
SECTION:	21-26HB
STRUCTURE NO.:	021-0041
TYPE OF STRUCTURE:	4 SPAN CONTINUOUS STEEL
	5 BEAM LINES - EACH BEAM LENGTH = 220.25'

CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES." ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL SHALL BE CLEANED PER NEAR WHITE BLASTNG SSPC-SP10.

THE DESIGNATED AREAS CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10 SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 OZ/E/U. THE COLOR OF THE FINAL FINISH COAT FOR ALL INTERIOR STEEL SURFACES SHALL BE GREY, MUNSELL NO. 5B 7/1. THE COLOR OF THE FINAL FINISH COAT FOR ALL EXTERIOR SURFACES AND THE BOTTOM FLANGE OF THE FASCIA BEAMS SHALL BE INTERSTATE GREEN (MUNSELL COLOR STANDARD 7.5G 4/8).

A MINIMUM OF TWO (2) HIGH VOLUME AIR MONITORS WILL BE REQUIRED TO MONITOR AIR QUALITY DURING DUST PRODUCING OPERATIONS AT THIS SITE. SEE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES".

THE EXISTING STRUCTURAL STEEL COATING CONTAINS LEAD. THE CONTRACTOR SHALL FOLLOW THE GUIDE BRIDGE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES" TO DEAL WITH THE PRESENCE OF LEAD ON THIS PROJECT.

NOTE: DECK DRAINS WITHIN THE PAINTING LIMITS DESCRIBED ABOVE ARE TO BE PAINTED AT NO ADDITIONAL COST.

TWO (2) YEAR PAINT WARRANTY REQUIRED FOR THIS STRUCTURE

TRAFFIC CONTROL AND PROTECTION STANDARD 701402
TRAFFIC CONTROL AND PROTECTION STANDARD 701411

LOCATION #2

DESCRIPTION:	TR 119 / CR 600N OVER I-57 - 0.5 mi. E of GALTON @ m.p. 207.5
COUNTY:	DOUGLAS
ROUTE:	F.A.I. 57
MARKED ROUTE:	I-57
SECTION:	21-26HB-1
STRUCTURE NO.:	021-0037
TYPE OF STRUCTURE:	4 SPAN CONTINUOUS STEEL
	5 BEAM LINES - EACH BEAM LENGTH = 219.25'

CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES." ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL SHALL BE CLEANED PER NEAR WHITE BLASTNG SSPC-SP10.

THE DESIGNATED AREAS CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10 SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 OZ/E/U. THE COLOR OF THE FINAL FINISH COAT FOR ALL INTERIOR STEEL SURFACES SHALL BE GREY, MUNSELL NO. 5B 7/1. THE COLOR OF THE FINAL FINISH COAT FOR ALL EXTERIOR SURFACES AND THE BOTTOM FLANGE OF THE FASCIA BEAMS SHALL BE INTERSTATE GREEN (MUNSELL COLOR STANDARD 7.5G 4/8).

A MINIMUM OF TWO (2) HIGH VOLUME AIR MONITORS WILL BE REQUIRED TO MONITOR AIR QUALITY DURING DUST PRODUCING OPERATIONS AT THIS SITE. SEE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES".

THE EXISTING STRUCTURAL STEEL COATING CONTAINS LEAD. THE CONTRACTOR SHALL FOLLOW THE GUIDE BRIDGE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES" TO DEAL WITH THE PRESENCE OF LEAD ON THIS PROJECT.

NOTE: DECK DRAINS WITHIN THE PAINTING LIMITS DESCRIBED ABOVE ARE TO BE PAINTED AT NO ADDITIONAL COST.

TWO (2) YEAR PAINT WARRANTY REQUIRED FOR THIS STRUCTURE

TRAFFIC CONTROL AND PROTECTION STANDARD 701402

MODEL: $MODELNAME$
FILE NAME: pw://Bidview.bentley.com:PWIDOT/Documents/IDOT Offices/District 5/ORD Projects/D570G13/CADData/CADsheets/D570G13-3sht-Desc_Work.dgn

USER NAME = Steven.Wood	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/12/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DESCRIPTION OF WORK
LOCATION #1 & #2

SCALE: NONE | SHEET 1 OF 7 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	10
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
	ILLINOIS FED. AID PROJECT			

LOCATION #3

DESCRIPTION: TR 108 / CR 1000E OVER I-57 - 1.25 mi. N of GALTON @ m.p. 208.8
COUNTY: DOUGLAS
ROUTE: F.A.I. 57
MARKED ROUTE: I-57
SECTION: 21-27HB
STRUCTURE NO.: 021-0046
TYPE OF STRUCTURE: 4 SPAN CONTINUOUS STEEL
5 BEAM LINES - EACH BEAM LENGTH = 240.58'

CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES." ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL SHALL BE CLEANED PER NEAR WHITE BLASTNG SSPC-SP10.

THE DESIGNATED AREAS CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10 SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 OZ/E/U. THE COLOR OF THE FINAL FINISH COAT FOR ALL INTERIOR STEEL SURFACES SHALL BE GREY, MUNSELL NO. 5B 7/1. THE COLOR OF THE FINAL FINISH COAT FOR ALL EXTERIOR SURFACES AND THE BOTTOM FLANGE OF THE FASCIA BEAMS SHALL BE INTERSTATE GREEN (MUNSELL COLOR STANDARD 7.5G 4/8).

A MINIMUM OF TWO (2) HIGH VOLUME AIR MONITORS WILL BE REQUIRED TO MONITOR AIR QUALITY DURING DUST PRODUCING OPERATIONS AT THIS SITE. SEE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES".

THE EXISTING STRUCTURAL STEEL COATING CONTAINS LEAD. THE CONTRACTOR SHALL FOLLOW THE GUIDE BRIDGE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES" TO DEAL WITH THE PRESENCE OF LEAD ON THIS PROJECT.

NOTE: DECK DRAINS WITHIN THE PAINTING LIMITS DESCRIBED ABOVE ARE TO BE PAINTED AT NO ADDITIONAL COST.

TWO (2) YEAR PAINT WARRANTY REQUIRED FOR THIS STRUCTURE

TRAFFIC CONTROL AND PROTECTION STANDARD 701402

LOCATION #4

DESCRIPTION: TR 83 / CR 800N OVER I-57 - 1.75 mi. S of US 36 @ m.p. 209.9
COUNTY: DOUGLAS
ROUTE: F.A.I. 57
MARKED ROUTE: I-57
SECTION: 21-27HB-1
STRUCTURE NO.: 021-0045
TYPE OF STRUCTURE: 4 SPAN CONTINUOUS STEEL
5 BEAM LINES - EACH BEAM LENGTH = 225.08'

CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES." ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL SHALL BE CLEANED PER NEAR WHITE BLASTNG SSPC-SP10.

THE DESIGNATED AREAS CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10 SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 OZ/E/U. THE COLOR OF THE FINAL FINISH COAT FOR ALL INTERIOR STEEL SURFACES SHALL BE GREY, MUNSELL NO. 5B 7/1. THE COLOR OF THE FINAL FINISH COAT FOR ALL EXTERIOR SURFACES AND THE BOTTOM FLANGE OF THE FASCIA BEAMS SHALL BE INTERSTATE GREEN (MUNSELL COLOR STANDARD 7.5G 4/8).

A MINIMUM OF TWO (2) HIGH VOLUME AIR MONITORS WILL BE REQUIRED TO MONITOR AIR QUALITY DURING DUST PRODUCING OPERATIONS AT THIS SITE. SEE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES".

THE EXISTING STRUCTURAL STEEL COATING CONTAINS LEAD. THE CONTRACTOR SHALL FOLLOW THE GUIDE BRIDGE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES" TO DEAL WITH THE PRESENCE OF LEAD ON THIS PROJECT.

NOTE: DECK DRAINS WITHIN THE PAINTING LIMITS DESCRIBED ABOVE ARE TO BE PAINTED AT NO ADDITIONAL COST.

TWO (2) YEAR PAINT WARRANTY REQUIRED FOR THIS STRUCTURE

TRAFFIC CONTROL AND PROTECTION STANDARD 701402

MODEL: $MODELNAME$
FILE NAME: pw://Bloodhow.bentley.com:PWDOT/Documents/IDOT Offices/District 5/ORD Projects/D270G13/CADData/CADSheets/D57G13-SetHDesc_Work.dgn

USER NAME = Steven.Wood	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -
PLOT DATE = 8/12/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DESCRIPTION OF WORK
LOCATION #3 & #4

SCALE: NONE | SHEET 2 OF 7 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	11
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
	ILLINOIS	FED. AID PROJECT		

LOCATION #5

DESCRIPTION:	TR 49 / CR 1050N OVER I-57 - 1.0 mi. N of US 36 @ m.p. 212.6
COUNTY:	DOUGLAS
ROUTE:	F.A.I. 57
MARKED ROUTE:	I-57
SECTION:	21-28HB
STRUCTURE NO.:	021-0044
TYPE OF STRUCTURE:	4 SPAN CONTINUOUS STEEL 5 BEAM LINES - EACH BEAM LENGTH = 218.08'

CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES." ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL SHALL BE CLEANED PER NEAR WHITE BLASTNG SSPC-SP10.

THE DESIGNATED AREAS CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10 SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 OZ/E/U. THE COLOR OF THE FINAL FINISH COAT FOR ALL INTERIOR STEEL SURFACES SHALL BE GREY, MUNSELL NO. 5B 7/1. THE COLOR OF THE FINAL FINISH COAT FOR ALL EXTERIOR SURFACES AND THE BOTTOM FLANGE OF THE FASCIA BEAMS SHALL BE INTERSTATE GREEN (MUNSELL COLOR STANDARD 7.5G 4/8).

A MINIMUM OF TWO (2) HIGH VOLUME AIR MONITORS WILL BE REQUIRED TO MONITOR AIR QUALITY DURING DUST PRODUCING OPERATIONS AT THIS SITE. SEE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES".

THE EXISTING STRUCTURAL STEEL COATING CONTAINS LEAD. THE CONTRACTOR SHALL FOLLOW THE GUIDE BRIDGE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES" TO DEAL WITH THE PRESENCE OF LEAD ON THIS PROJECT.

NOTE: DECK DRAINS WITHIN THE PAINTING LIMITS DESCRIBED ABOVE ARE TO BE PAINTED AT NO ADDITIONAL COST.

TWO (2) YEAR PAINT WARRANTY REQUIRED FOR THIS STRUCTURE

TRAFFIC CONTROL AND PROTECTION STANDARD 701402
TRAFFIC CONTROL AND PROTECTION STANDARD 701411

LOCATION #6

DESCRIPTION:	TR 25 / CR 1250N OVER I-57 - 3.0 mi. N of US 36 @ m.p. 214.6
COUNTY:	DOUGLAS
ROUTE:	F.A.I. 57
MARKED ROUTE:	I-57
SECTION:	21-28HB-1
STRUCTURE NO.:	021-0043
TYPE OF STRUCTURE:	4 SPAN CONTINUOUS STEEL 5 BEAM LINES - EACH BEAM LENGTH = 217.25'

CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES." ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL SHALL BE CLEANED PER NEAR WHITE BLASTNG SSPC-SP10.

THE DESIGNATED AREAS CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10 SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 OZ/E/U. THE COLOR OF THE FINAL FINISH COAT FOR ALL INTERIOR STEEL SURFACES SHALL BE GREY, MUNSELL NO. 5B 7/1. THE COLOR OF THE FINAL FINISH COAT FOR ALL EXTERIOR SURFACES AND THE BOTTOM FLANGE OF THE FASCIA BEAMS SHALL BE INTERSTATE GREEN (MUNSELL COLOR STANDARD 7.5G 4/8).

A MINIMUM OF TWO (2) HIGH VOLUME AIR MONITORS WILL BE REQUIRED TO MONITOR AIR QUALITY DURING DUST PRODUCING OPERATIONS AT THIS SITE. SEE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES".

THE EXISTING STRUCTURAL STEEL COATING CONTAINS LEAD. THE CONTRACTOR SHALL FOLLOW THE GUIDE BRIDGE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES" TO DEAL WITH THE PRESENCE OF LEAD ON THIS PROJECT.

NOTE: DECK DRAINS WITHIN THE PAINTING LIMITS DESCRIBED ABOVE ARE TO BE PAINTED AT NO ADDITIONAL COST.

TWO (2) YEAR PAINT WARRANTY REQUIRED FOR THIS STRUCTURE

TRAFFIC CONTROL AND PROTECTION STANDARD 701402

MODEL: $MODELNAME$
FILE NAME: pw://Bidview.bentley.com:PWIDOT/Documents:IDOT Offices:District 5\ORD Projects:057G13\CADData\CADsheets\057G13-3sht-Desc_Work.dgn

USER NAME = Steven.Wood	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/12/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DESCRIPTION OF WORK
LOCATION #5 & #6

SCALE: NONE | SHEET 3 OF 7 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	12
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
	ILLINOIS FED. AID PROJECT			

LOCATION #7

DESCRIPTION:	FAS 522(CH 6) / CR 1450N OVER I-57 - 5.0 mi. N of US 36 @ m.p. 216.6
COUNTY:	DOUGLAS
ROUTE:	F.A.I. 57
MARKED ROUTE:	I-57
SECTION:	21-29HB
STRUCTURE NO.:	021-0034
TYPE OF STRUCTURE:	4 SPAN - CONTINOUS STEEL
	4 BEAM LINES - EACH BEAM LENGTH = 219.83'

CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES." ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL SHALL BE CLEANED PER NEAR WHITE BLASTNG SSPC-SP10.

THE DESIGNATED AREAS CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10 SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 OZ/E/U. THE COLOR OF THE FINAL FINISH COAT FOR ALL INTERIOR STEEL SURFACES SHALL BE GREY, MUNSELL NO. 5B 7/1. THE COLOR OF THE FINAL FINISH COAT FOR ALL EXTERIOR SURFACES AND THE BOTTOM FLANGE OF THE FASCIA BEAMS SHALL BE INTERSTATE GREEN (MUNSELL COLOR STANDARD 7.5G 4/8).

A MINIMUM OF ONE (1) HIGH VOLUME AIR MONITORS WILL BE REQUIRED TO MONITOR AIR QUALITY DURING DUST PRODUCING OPERATIONS AT THIS SITE. SEE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES".

THE EXISTING STRUCTURAL STEEL COATING CONTAINS LEAD. THE CONTRACTOR SHALL FOLLOW THE GUIDE BRIDGE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES" TO DEAL WITH THE PRESENCE OF LEAD ON THIS PROJECT.

NOTE: DECK DRAINS WITHIN THE PAINTING LIMITS DESCRIBED ABOVE ARE TO BE PAINTED AT NO ADDITIONAL COST.

TWO (2) YEAR PAINT WARRANTY REQUIRED FOR THIS STRUCTURE

TRAFFIC CONTROL AND PROTECTION STANDARD 701402

LOCATION #8

DESCRIPTION:	IL 49 (FAP 840) OVER I-74 - NW of FITHIAN @ m.p. 199.8 (EXIT 200)
COUNTY:	VERMILION
ROUTE:	FAI 74
MARKED ROUTE:	I-74
SECTION:	(10,92-8 HB-4)BR
STRUCTURE NO.:	092-0203
TYPE OF STRUCTURE:	2 SPAN CONTINUOUS STEEL
	6 BEAM LINES - LENGTH FACE-FACE INTEGRAL ABUTS = 215.0'

CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES." ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10.

THE DESIGNATED AREAS CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10 SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 OZ/E/U. THE COLOR OF THE FINAL FINISH COAT FOR ALL INTERIOR STEEL SURFACES SHALL BE GREY, MUNSELL NO. 5B 7/1. THE COLOR OF THE FINAL FINISH COAT FOR ALL EXTERIOR SURFACES AND THE BOTTOM FLANGE OF THE FASCIA BEAMS SHALL BE INTERSTATE GREEN (MUNSELL COLOR STANDARD 7.5G 4/8).

THE STRUCTURE HAS AN EXISTING ORGANIC ZINC / EPOXY / URETHANE PAINT SYSTEM.
CONTAINMENT OF CLEANING RESIDUE IS REQUIRED TO CONTROL NUISANCE DUST.
THE CONTRACTOR SHALL FOLLOW THE SPECIFICATIONS FOR CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES.

NOTE: NO DECK DRAINS

NOTE: INTEGRAL ABUTMENTS

TWO (2) YEAR PAINT WARRANTY REQUIRED FOR THIS STRUCTURE

TRAFFIC CONTROL AND PROTECTION STANDARD 701402
TRAFFIC CONTROL AND PROTECTION STANDARD 701411
TRAFFIC CONTROL AND PROTECTION STANDARD 701428 - (ADT over 25,000)

MODEL: $MODELNAME$
FILE NAME: pw:\\Bidwww.bentley.com:PWIDOT\Documents\IDOT Offices\District 5\ORD Projects\057G13\CADData\CADsheets\057G13-Shift-Desc_Work.dgn

USER NAME = Steven.Wood	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/12/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DESCRIPTION OF WORK
LOCATION #7 & #8

SCALE: NONE | SHEET 4 OF 7 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	13
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
	ILLINOIS FED. AID PROJECT			

LOCATION #9

DESCRIPTION: IL 49 (FAP 840) OVER UPRR - 1.8 mi. N of US 136
COUNTY: VERMILION
ROUTE: IL 49 (FAP 840)
MARKED ROUTE: IL 49
SECTION: 122 VBR
STRUCTURE NO.: 092-0101
TYPE OF STRUCTURE: 5 SPAN CONTINUOUS STEEL
6 BEAM LINES

ZONE PAINTING LIMITS

- ALL OF SPAN 1 - Each Beam Length 19.29' - W21x44
- SPAN 2 - 24' along the beams from the South Pier - W36x160
- SPAN 3 - No Work
- SPAN 4 - 24' along the beams from the North Pier - W36x160
- ALL OF SPAN 5 - Each Beam Length 45.09' - W30x99

CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES." ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL IN SPANS 1 & 5 SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10. ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL IN SPANS 2 & 4 WITHIN AN AREA MEASURED TWENTY-FOUR (24) FT. ALONG THE BEAM LINES FROM THE JOINT END SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10.

THE DESIGNATED AREAS CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10 SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 OZ/E/U. THE COLOR OF THE FINAL FINISH COAT FOR ALL STEEL SURFACES SHALL BE GREY, MUNSELL NO. 5B 7/1.

THE STRUCTURE HAS AN EXISTING ORGANIC ZINC / EPOXY / URETHANE PAINT SYSTEM. CONTAINMENT OF CLEANING RESIDUE IS REQUIRED TO CONTROL NUISANCE DUST. THE CONTRACTOR SHALL FOLLOW THE SPECIFICATIONS FOR CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES.

NOTE: DECK DRAINS WITHIN THE PAINTING LIMITS DESCRIBED ABOVE ARE TO BE PAINTED AT NO ADDITIONAL COST.

TRAFFIC CONTROL AND PROTECTION

IT IS ANTICIPATED THAT THE CONTRACTOR WILL PAINT LOCATION #9 FROM THE NW, & SE QUADRANTS TO MINIMIZE TIME ON THE ROAD. TRAFFIC CONTROL AND PROTECTION STANDARD 701201 IS PROVIDED AND WILL BE PAID FOR WHEN LANE CLOSURES ARE NECESSARY.

LOCATION #10

(Beam Ends Only)

DESCRIPTION: US 36 (FAP 323) OVER KASKASKIA RIVER - 4.0 mi. W of US 45
COUNTY: DOUGLAS
ROUTE: US 36 (FAP 323)
MARKED ROUTE: US 36
SECTION: 143BR-1
STRUCTURE NO.: 021-0018
TYPE OF STRUCTURE: 4 SPAN CONTINUOUS WEATHERING STEEL
5 BEAM LINES - BEAM LENGTH = 173.33'

ONLY PAINTING BEAM ENDS AT ABUTMENTS

CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES." ALL BEAMS, BEARINGS, DIAPHRAGMS AND OTHER STRUCTURAL STEEL IN SPANS 1 AND 4 MEASURED SIX (6) FT. ALONG THE BEAM LINES FROM EACH END OF THE STRUCTURE SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10.

THE DESIGNATED AREAS CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10 SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 OZ/E/U. THE COLOR OF THE FINAL FINISH COAT FOR ALL STEEL SURFACES SHALL BE GREY, MUNSELL NO. 5B 7/1.

THE STRUCTURE HAS AN EXISTING ZINC SILICATE AND VINYL PAINT SYSTEM. CONTAINMENT OF CLEANING RESIDUE IS REQUIRED TO CONTROL NUISANCE DUST. THE CONTRACTOR SHALL FOLLOW THE SPECIFICATIONS FOR CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES.

NOTE: DECK DRAINS WITI IIN TI IE PAINTING LIMITS DESCRIBED ABOVE ARE TO BE PAINTED AT NO ADDITIONAL COST.

NOTE: ELASTOMERIC BEARINGS AT ABUTMENTS

TRAFFIC CONTROL AND PROTECTION

IT IS ANTICIPATED THAT THE CONTRACTOR WILL PAINT LOCATION #10 FROM THE NW, SW, & SE QUADRANTS TO MINIMIZE TIME ON THE ROAD. TRAFFIC CONTROL AND PROTECTION STANDARD 701201 IS PROVIDED AND WILL BE PAID FOR WHEN LANE CLOSURES ARE NECESSARY.

MODEL: $MODELNAME$
FILE NAME: pw://Bidview.bentley.com:PWIDOT/Documents/IDOT Offices/District 5/ORD Projects/0570913/CADData/CADSheets/057G13-3sht-Desc_Work.dgn

USER NAME = Steven.Wood	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/12/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DESCRIPTION OF WORK
LOCATION #9 & #10

SCALE: NONE | SHEET 5 OF 7 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	14
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
	ILLINOIS FED. AID PROJECT			

LOCATION #11

DESCRIPTION: IL 130 (FAP 820) OVER DEER CREEK - 2.1 mi. N of IL 133
COUNTY: DOUGLAS
ROUTE: IL 130 (FAP 820)
MARKED ROUTE: IL 130
SECTION: 22BR
STRUCTURE NO.: 021-0049
TYPE OF STRUCTURE: 1 SPAN CONTINUOUS WEATHERING STEEL
5 BEAM LINES - CENTER TO CENTER OF BENTS = 79.0'
7' of Beam Ends Painted with Basic Lead Silica Chromate Primer and maroon top coat.

PAINTING ENTIRE STRUCTURE

CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES." ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL SHALL BE CLEANED PER NEAR WHITE BLASTNG SSPC-SP10.

THE DESIGNATED AREAS CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10 SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 OZ/E/U. THE COLOR OF THE FINAL FINISH COAT FOR ALL STEEL SURFACES SHALL BE GREY, MUNSELL NO. 5B 7/1.

A MINIMUM OF TWO (2) HIGH VOLUME AIR MONITORS WILL BE REQUIRED TO MONITOR AIR QUALITY DURING DUST PRODUCING OPERATIONS AT THIS SITE. SEE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES".

THE EXISTING STRUCTURAL STEEL COATING CONTAINS LEAD. THE CONTRACTOR SHALL FOLLOW THE GUIDE BRIDGE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES" TO DEAL WITH THE PRESENCE OF LEAD ON THIS PROJECT.

NOTE: DECK DRAINS WITHIN THE PAINTING LIMITS DESCRIBED ABOVE ARE TO BE PAINTED AT NO ADDITIONAL COST.

NOTE: ELASTOMERIC BEARINGS AT ABUTMENTS

TWO (2) YEAR PAINT WARRANTY REQUIRED FOR THIS STRUCTURE

TRAFFIC CONTROL AND PROTECTION
NOT SURE IF THE CONTRACTOR CAN USE ANY OF THE QUADRANTS FOR OFF-ROAD ACCESS. DITCHES ARE FAIRLY STEEP. TRAFFIC CONTROL AND PROTECTION STANDARD 701201 IS PROVIDED AND WILL BE PAID FOR WHEN LANE CLOSURES ARE NECESSARY.

LOCATION #12

DESCRIPTION: IL 130 (FAP 820) OVER SCATTERING FORK - 3.4 mi. S of US 36
COUNTY: DOUGLAS
ROUTE: IL 130 (FAP 820)
MARKED ROUTE: IL 130
SECTION: 1-G & 1-G-BR
STRUCTURE NO.: 021-0031
TYPE OF STRUCTURE: 3 SPAN CONTINUOUS STEEL
6 BEAM LINES - BEAM LENGTH = 124.67'

PAINTING ENTIRE STRUCTURE

CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES." ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10.

THE DESIGNATED AREAS CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10 SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 OZ/E/U. THE COLOR OF THE FINAL FINISH COAT FOR ALL STEEL SURFACES SHALL BE GREY, MUNSELL NO. 5B 7/1.

THE STRUCTURE HAS AN EXISTING ZINC SILICATE AND VINYL PAINT SYSTEM. CONTAINMENT OF CLEANING RESIDUE IS REQUIRED TO CONTROL NUISANCE DUST. THE CONTRACTOR SHALL FOLLOW THE SPECIFICATIONS FOR CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES.

NOTE: DECK DRAINS WITHIN THE PAINTING LIMITS DESCRIBED ABOVE ARE TO BE PAINTED AT NO ADDITIONAL COST.

NOTE: ELASTOMERIC BEARINGS @ ABUTMENTS

TWO (2) YEAR PAINT WARRANTY REQUIRED FOR THIS STRUCTURE

TRAFFIC CONTROL AND PROTECTION
IT IS ANTICIPATED THAT THE CONTRACTOR WILL PAINT LOCATION #12 FROM THE NE QUADRANT TO MINIMIZE TIME ON THE ROAD. TRAFFIC CONTROL AND PROTECTION STANDARD 701201 IS PROVIDED AND WILL BE PAID FOR WHEN LANE CLOSURES ARE NECESSARY.

MODEL: $MODELNAME$
FILE NAME: pw:\\Bidview.bentley.com:PWIDOT\Documents\IDOT Offices\District 5\ORD Projects\D570913\CADData\CADSheets\D570G13-3sht-Desc_Work.dgn

USER NAME = Steven.Wood	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/12/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DESCRIPTION OF WORK
LOCATION #11 & #12

SCALE: NONE | SHEET 6 OF 7 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	15
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
	ILLINOIS FED. AID PROJECT			

LOCATION #13

DESCRIPTION:	MAIN ST. (CR 1000N) OVER EMBARRAS RIVER - in CAMARGO
COUNTY:	DOUGLAS
ROUTE:	MAIN ST. (CR 1000N)
MARKED ROUTE:	MAIN ST. - 0.55 mi. W of IL 130
SECTION:	LB-15 d
STRUCTURE NO.:	021-0039
TYPE OF STRUCTURE:	3 SPAN CONTINUOUS STEEL
	5 BEAM LINES - EACH BEAM LENGTH = 140.75'

PAINTING ENTIRE STRUCTURE

CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES." ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL SHALL BE CLEANED PER NEAR WHITE BLASTNG SSPC-SP10.

THE DESIGNATED AREAS CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10 SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 OZ/E/U. THE COLOR OF THE FINAL FINISH COAT FOR ALL STEEL SURFACES SHALL BE GREY, MUNSELL NO. 5B 7/1.

A MINIMUM OF THREE (3) HIGH VOLUME AIR MONITOR WILL BE REQUIRED TO MONITOR AIR QUALITY DURING DUST PRODUCING OPERATIONS AT THIS SITE. SEE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES".

THE EXISTING STRUCTURAL STEEL COATING CONTAINS LEAD. THE CONTRACTOR SHALL FOLLOW THE GUIDE BRIDGE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES" TO DEAL WITH THE PRESENCE OF LEAD ON THIS PROJECT.

NOTE: DECK DRAINS WITHIN THE PAINTING LIMITS DESCRIBED ABOVE ARE TO BE PAINTED AT NO ADDITIONAL COST.

TWO (2) YEAR PAINT WARRANTY REQUIRED FOR THIS STRUCTURE

TRAFFIC CONTROL AND PROTECTION

IT IS ANTICIPATED THAT THE CONTRACTOR WILL PAINT LOCATION #13 FROM THE SW QUADRANT TO MINIMIZE TIME ON THE ROAD. TRAFFIC CONTROL AND PROTECTION STANDARD 701201 IS PROVIDED AND WILL BE PAID FOR WHEN LANE CLOSURES ARE NECESSARY.

MODEL: $MODELNAME$
FILE NAME: pw://ildot-pw.bentley.com:PWIDOT/Documents/IDOT Offices/District 5/ORD Projects/D570G13/CADData/CADsheets/D570G13-sht-Desc_Work.dgn

USER NAME = Steven.Wood	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/12/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DESCRIPTION OF WORK
LOCATION 13

SCALE: NONE | SHEET 7 OF 7 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	16
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
	ILLINOIS	FED. AID PROJECT		

B.M. No.3 Nail in telephone pole 210' Lt. Sta. 152+87 Elev. 659.66

AS-BUILT PLANS FOR S.N. 021-0041

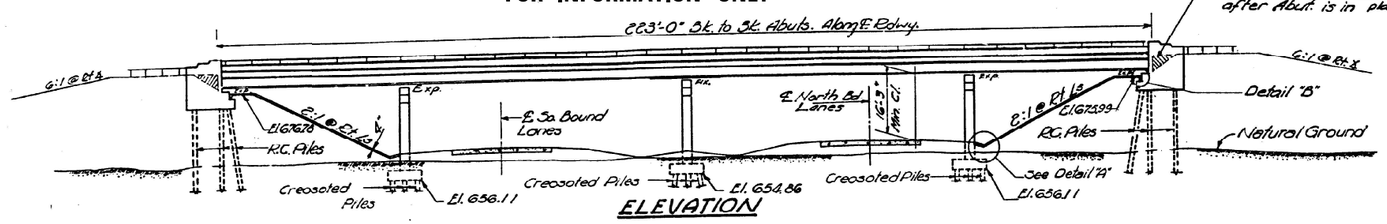
FOR INFORMATION ONLY

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

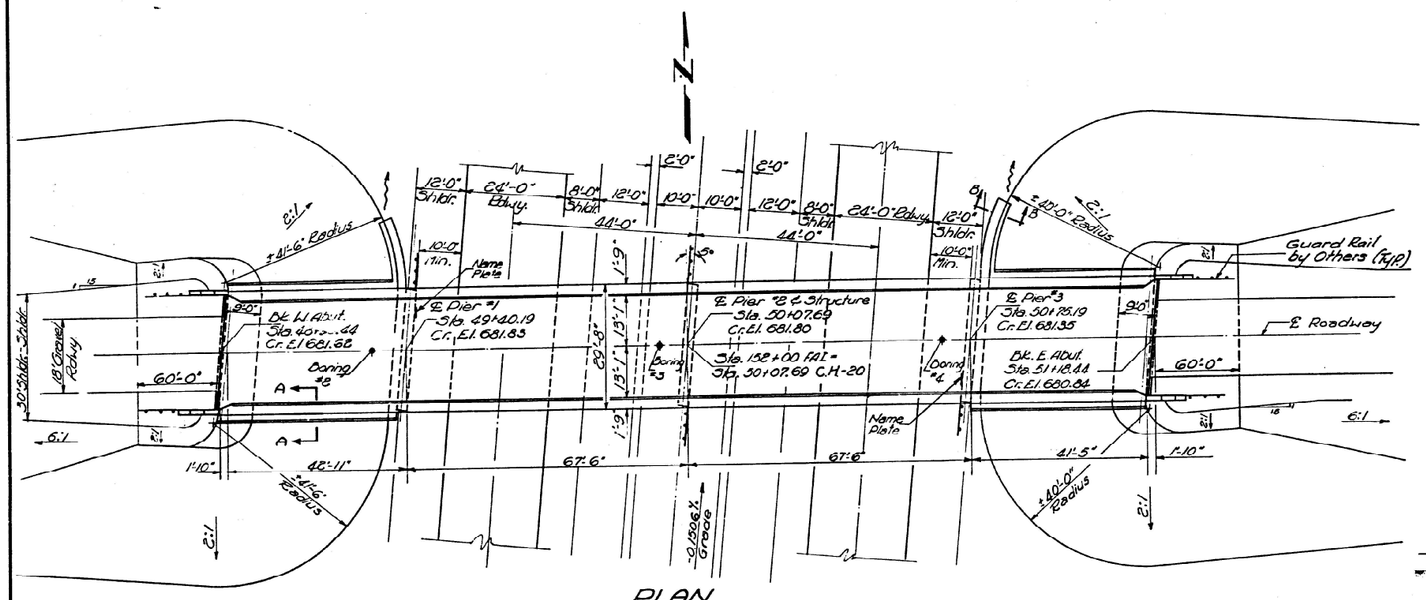
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I. R. I. F.A.I. 57	21-26HB	DOUGLAS	24	7
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT- I-57-5(87)205		

SHEET NO. 1
9 SHEETS

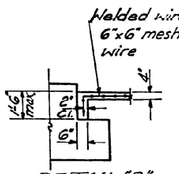
Embankment backfill by Bridge Contractor after Abut. is in place



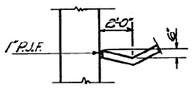
ELEVATION



PLAN



DETAIL "B"



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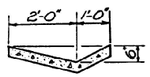
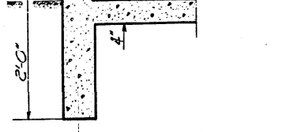


SECTION B-B



SECTION A-A

GENERAL NOTES

Class X Concrete shall be used throughout.

The Concrete Floor slab shall be finished in accordance with Art. 5119 of the Standard Specifications.

All reinforcement bars shall be lapped 20 diameters unless otherwise shown.

Slope wall shall be reinforced with welded wire fabric 6"x 6" mesh, #4 wires, weighing 58# per 100 sq. ft..

All rivets shall be ⅞" ϕ unless noted.

All holes for splices shall be sub-punched 1 1/16" ϕ and reamed to proper size: 1 3/16" ϕ for ⅞" ϕ rivets; 1 5/16" ϕ for 1⅛" ϕ rivets.

All rockers, bolsters, bearing plates, lead plates, pintles and anchor bolts shall be fabricated and set in accordance with Article 5115 of the Standard Specifications and are included in quantity of Structural Steel. Estimate weight of this steel is 6,335 lbs..

Anchor bolts shall be set before riveting diaphragms over supports.

Except as otherwise provided all structural steel shall receive one shop coat of red lead paint and two field coats of paint. See Special Provisions.

PERMANENT FORMS WILL NOT BE PERMITTED IN FORMING THE CONCRETE DECK.

Before driving Abut. piles the embankment shall be cored in accordance with Art. 60.9(c) of the Standard Specifications.

The Contractor shall drive 2 test piles; one concrete pile at East Abutment in permanent location and one timber test pile near pier #2, as directed by the Engineer before ordering the remaining piles.

Coarse aggregate which is to be used in end post must be absolutely free of chert, flint, limonite, lignite, and soft sandstone.

Structural Steel to be used in stringers, cover plates and splice plates shall conform to A.S.T.M. Designation for Structural Steel A-36.

Excavation for portion of structures in the embankment shall not be classified.

TOTAL BILL OF MATERIAL

ITEM		Super.	Sub.	Total
Class "A" Excavation	Cu. Yds.		60	60
Class X Concrete	Cu. Yds.	197.0	191.7	388.7
Structural Steel	Lbs.	145,280.		145,280.
Aluminum Handrail	Lin. Ft.	442		442
Reinforcement Bars	Lbs.	47,610	15,740	63,350
Creosoted Piles (up to 20')	Lin. Ft.		627	627
Test Pile (Timber)	Ea.		1	1
Concrete Piles	Lin. Ft.		494	494
Test Pile (Concrete)	Ea.		1	1
Name Plates	Ea.		2	2
Slope Wall 4"	Sq. Yds.		406	406
* Protective Coat	Sq. Yds.			853

* Includes inside vertical face, top & exposed end of the abut wings

FIELD WELDING OF CONSTRUCTION ACCESSORIES TO THE BOTTOM FLANGES OR FOR A DISTANCE OF ½ OF THE SPAN EACH WAY FROM PIER SUPPORTS ON THE TOP FLANGES OF BEAMS OR GIRDERS WILL NOT BE PERMITTED. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.

BORING No.2

Sta. 49+38 on ℄
Ground El 682.3

N	Qu		Elev.	
		Black Clay	655	
5	1.25	Stiff Brown mottled clay		
15	3.50	Very stiff Brown mottled clay till	650	
16	3.50	Hard Brown Gray mottled clay till		
23	6.0		645	
23	7.0	Hard Gray Clay Till		
22	6.0		640	
22	5.0			
21	4.00	Hard Gray Clay Till	635	

Limit of Boring 631.3

BORING No.3

Sta. 50+00 on ℄
Ground El 682.3

N	Qu		Elev.	
		Stiff Black Clay	655	
4	1.25	Stiff Brown mottled clay		
7	1.25	Stiff Brown mottled clay till	650	
10	0.75	Hard Brown Gray mott. clay Till		
20	2.25		645	
18	3.50	Hard Gray Clay Till		
16	2.25		640	
12				
10			635	
12	2.25	Very Stiff Gray Clay Till		
30	2.25		630	
12	2.25			
26	3.25		625	

Limit of Boring 618.3

BORING No.4

Sta. 50+68 on ℄
Ground El 682.4

N	Qu		Elev.	
		Black Clay	655	
3	1.25	Stiff Brown mottled clay		
18	4.25	Hard Brown mottled clay till	650	
28	6.0			
31	4.75		645	
22	5.0	Hard Gray clay till		
17	2.25		640	
18	4.0			
18	2.0	Hard Gray Clay Till	635	
18	4.0			
18	2.0		630	

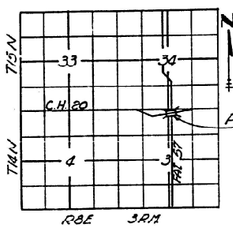
Limit of Boring 628.4

STATION 152+00
BUILT 196 BY
STATE OF ILLINOIS
F.A.I. RT 57 SEC. 21-26HB
F.A. PROJ. I-57-5(87)
LOADING H S15-44

NAME PLATE

See Standard 2113-1

N = Blows per foot 6" spoon with 140# falling 30"
Qu - Unconfined Compressive strength - t/sf.

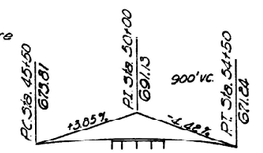


LOCATION SKETCH

DESIGN STRESSES

f'c = 1400 psi. Super & Sub.
vc = 75 psi. Flgs.
fs = 20,000 psi Reinf.
fs = 20,000 psi Struct.
n = 10

LOADING H S15-44



C.H.-20 V.C. DATA

DESIGNED	Robert Zander	APR 27 1961	
CHECKED	C. James Carlson	EXAMINED	W.E. Bruemmer, ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
DRAWN	A. Borrazo	PASSED	E.H. Bunert, ENGINEER OF BRIDGES
CHECKED	C.J.C.	APPROVED	R.R. Bartelsmeyer, CHIEF HIGHWAY ENGINEER

GENERAL PLAN & ELEVATION
PROJECT I-57-5(87)205
WELL HOUSE RD (C.H.-20) OVER F.A.I.
F.A.I. RT. 57 SEC. 21-26HB
DOUGLAS COUNTY
Sta. 152+00

Rev. 11-16-67 Added Guard Rail, Handrail and Abut Wings modernized. Quantity of Bottom Bar, Class X Conc., Reinf. Bars & Type and =typ.

Revised 6-24-67: Chgd. Cl. X Conc. Cu. Yds., from 402.0 to 388.7. Reinf. Bars Lbs. from 59,580 to 63,350. R.E.

Revised from "S.A. 20" to "C.H. 20" Detail Estimate - Items to be Added & Deleted. M.L. 1-24-67

MODEL: $MODELNAME$
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USER NAME = Steven.Wood	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -
PLOT DATE = 8/12/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #1 S.N. 021-0041

SCALE: NONE | SHEET 1 OF 3 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	17
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
	ILLINOIS	FED. AID PROJECT		

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

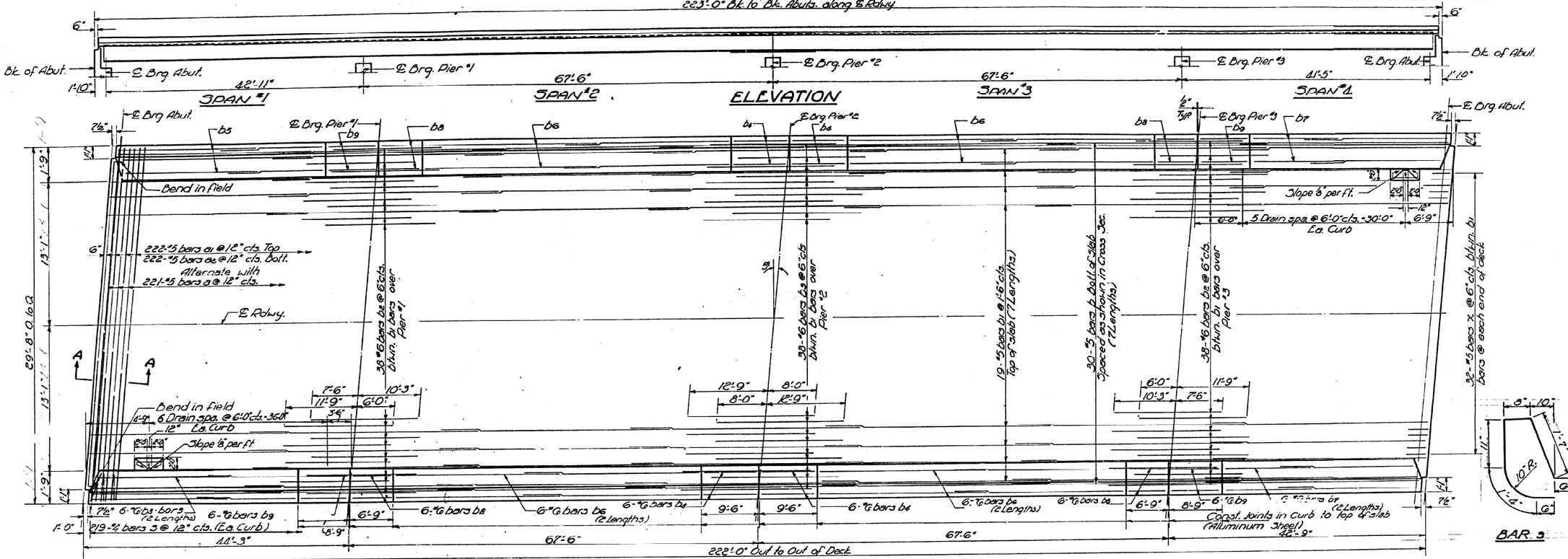
AS-BUILT PLANS FOR S.N. 021-0041
FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 57	21-26HB	DOUGLAS	24	8
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT:		

SHEET NO. 2
9 SHEETS

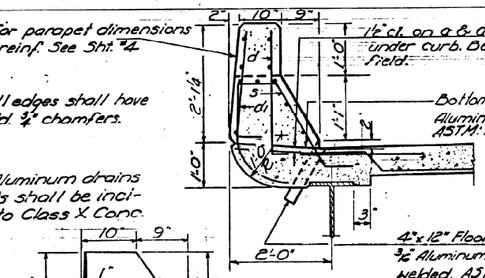
223'-0" Bk. to Bk. Abuts. along ℄ Rdwy.

ELEVATION

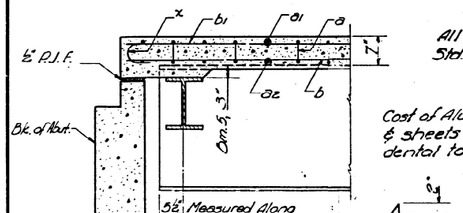


BAR 3

PLAN

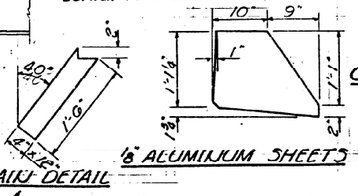


CURB DETAIL



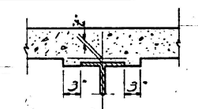
SECTION A-A

Cost of Aluminum drains & sheets shall be incidental to Class X Conc.

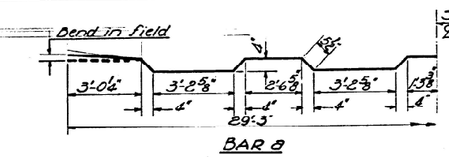


DRAIN DETAIL

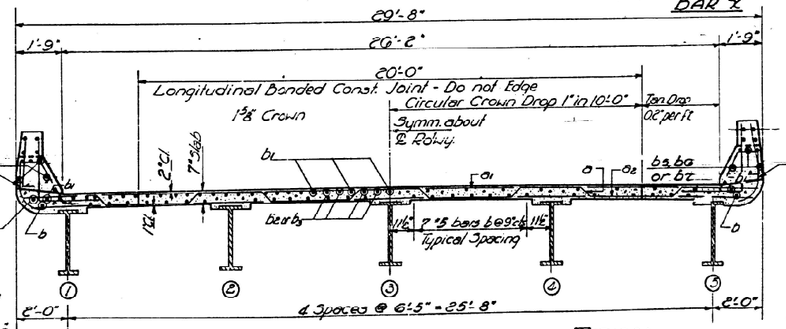
1/8" ALUMINUM SHEETS



BAR 8



BAR X



OVER PIERS

TYPICAL

CROSS SECTION

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	222	#5	30'-3"	
a1	222	#5	29'-3"	
a2	221	#5	28'-9"	
b	210	#5	32'-8"	
b1	133	#5	32'-9"	
b2	76	#6	17'-9"	
b3	38	#6	20'-9"	
b4	24	#6	9'-0"	
b5	24	#6	18'-3"	
b6	48	#6	26'-3"	
b7	24	#6	17'-6"	
b8	24	#6	6'-3"	
b9	24	#6	8'-3"	
3	438	#12	5'-6"	
x	64	#5	4'-9"	
Class X Concrete			Cu. Yds.	183.3
Reinforcement Bars			Lbs.	41,280
Structural Steel			Lbs.	145280

SUPERSTRUCTURE

WELL HOUSE RD. (C.H. 22) OVER F.A.I. RT. 57 SEC. 21-26HB
DOUGLAS COUNTY
STA. 152+00

DESIGNED	Robert Sandel
CHECKED	C. Xavier Corbeil
DRAWN	A. Barraza
CHECKED	C.X.C.

EXAMINED H.E. Brummer — ENGINEER OF BRIDGES AND TRAFFIC STRUCTURES
PASSED E.L. Blume — ENGINEER OF DESIGN
APPROVED R.C. Bartelsmeyer — CHIEF ENGINEER
Apr 27 1961

Method of Determining Fillet Heights "f"

After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at the stations shown on sheet #8. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on Sheet #8, minus floor thickness equals the fillet heights above top of beams.

Rev. 11/3/67 Reinf. in slab increased Added parapet in curb. Quantities of Reinf. Bars & Class X Conc. adjst. R.Z.

Rev. 8-24-67 Changed Curb to new configuration. Quantities of Cl. X Conc. & Reinf. Bars Chgd. R.Z.

USER NAME = Steven.Wood	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -	
PLOT DATE = 8/12/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #1 S.N. 021-0041

SCALE: NONE | SHEET 2 OF 3 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	18
* DOUGLAS & VERMILION		CONTRACT NO. 70G13		
ILLINOIS	FED. AID PROJECT			

MODEL: $MODELNAME$
FILE NAME: pw://ilsdocpw.bentley.com:PWDOT/Documents/IDOT Offices/District 5/ORD Projects/D570G13/CADData/CADSheets/D570G13-1stRnAs_Baltts.dgn

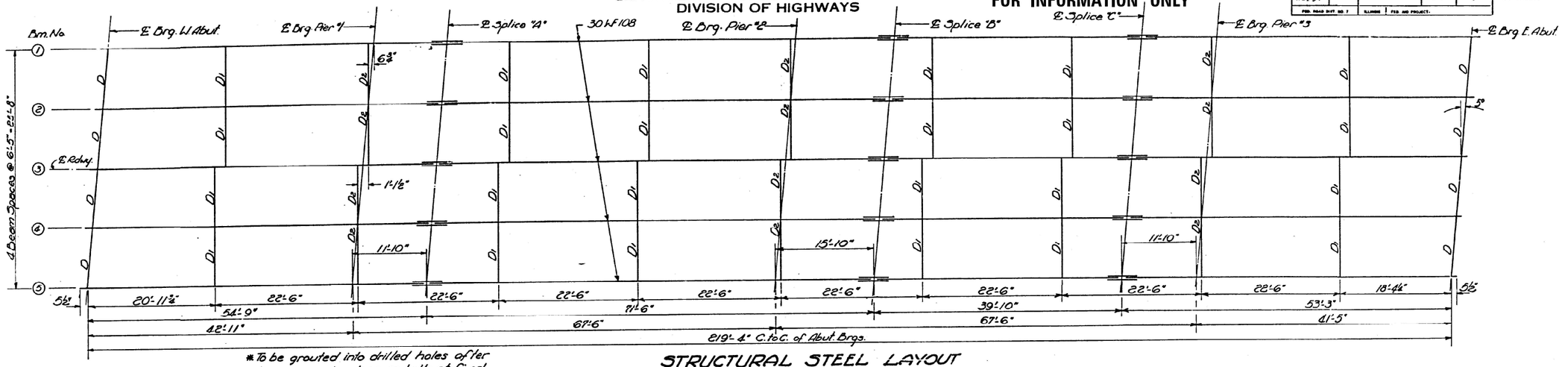
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

AS-BUILT PLANS FOR S.N. 021-0041

FOR INFORMATION ONLY

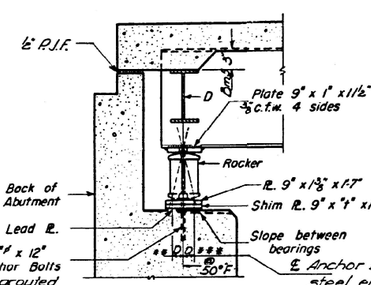
POINT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 57	21-26HB	DOUGLAS	24	9
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT.		

SHEET NO. 3
9 SHEETS

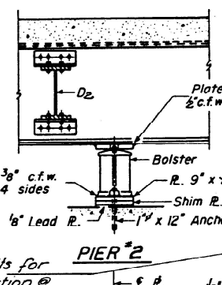


* To be grouted into drilled holes after beams are in place, or bolts at fixed pier may be built into the masonary.

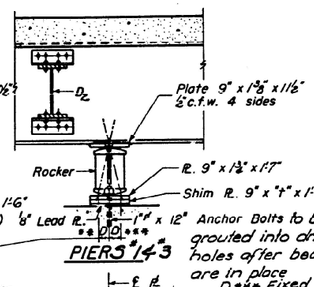
STRUCTURAL STEEL LAYOUT



SECTION AT ABUTMENTS



PIER #2



PIERS #1 & #3

PLAN

PLAN

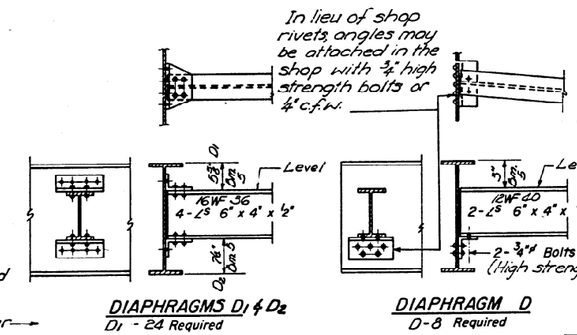
PLAN

** D = ⅛/100 ft. of exp. for every 15° below the normal temp. of 50°F

*** D = ⅛/100 ft. of exp. for every 15° above the normal temp. of 50°F.

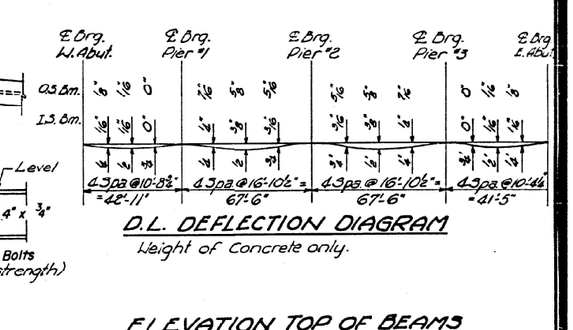
DETAIL OF PINTLE

DETAIL OF BEARING AT PIER #3 & ABUTMENTS

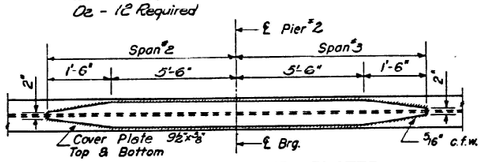


DIAPHRAGMS D_1 & D_2
D_1 - 24 Required
D_2 - 12 Required

DIAPHRAGM D
D-8 Required



D.L. DEFLECTION DIAGRAM
Weight of Concrete only.



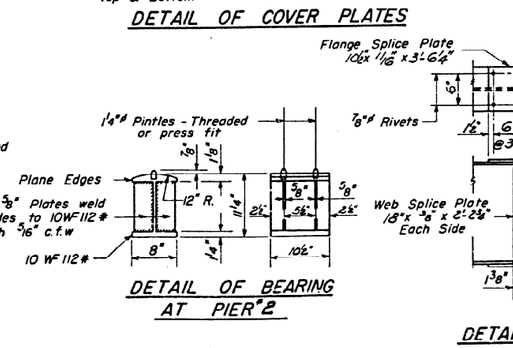
DETAIL OF COVER PLATES

ELEVATION TOP OF BEAMS

Bm.	Loc.	W. Abut.	Pier #1	Spl. A	Pier #2	Spl. B	Spl. C	Pier #3	E. Abut.
1		680.922	681.051	680.987	680.956	680.957	680.680	680.559	680.134
2		681.015	681.144	681.180	681.079	681.050	680.773	680.652	680.227
3		681.045	681.174	681.210	681.109	681.080	680.803	680.682	680.257
4		681.007	681.136	681.172	681.071	681.042	680.765	680.644	680.219
5		680.907	681.036	681.072	680.971	680.942	680.665	680.544	680.119

"t" DIMENSIONS

Bm. Loc.	All Bearings
1	3/16
2	5/16
3	5/8"
4	3/16
5	0"



DETAIL OF BEARING AT PIER #2

DETAIL OF SPLICE

STRUCTURAL STEEL
WELL HOUSE RD. (C.H. 2C) OVER F.A.I.
F.A.I. RT. 57 SEC. 21-26 HB
DOUGLAS COUNTY
STA. 152+00

DESIGNED	Robert Sanders	
CHECKED	C. Lewan Cooley	
DRAWN	R. Barrera W. A. Sausaman Jr.	
CHECKED	C.F.C.	

APR 27 1961

EXAMINED A.G. Bauman — ENGINEER OF BRIDGE & TRAFFIC STRUCTURES

PASSED C.F. Shank — ENGINEER OF DESIGN

APPROVED H.C. Butschkow — CHIEF HIGHWAY ENGINEER

I-2-L Re-drawn 9-21-59

Rev. 1/3/67 Added notes for expansion & anchor bolts A.J.

MODEL: $MODELNAME$
FILE NAME: pw:\\bdeploy.bentley.com:PWBDOT\Documents\BDOT Offices\District 5\ORD Projects\D570G13\CADData\CADsheets\D570G13-1stMaj_Bulits.dgn

USER NAME = Steven.Wood	DESIGNED -	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	AS-BUILT PLANS LOCATION #1 S.N. 021-0041	
	DRAWN -	REVISED -			
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -			
PLOT DATE = 8/12/2024	DATE -	REVISED -		SCALE: NONE SHEET 3 OF 3 SHEETS STA. TO STA.	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	19
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
	ILLINOIS FED. AID PROJECT			

B.M. No. 10 nail in east side of telephone pole, 124' left Sta. 311+40 Elev. 647.01. No existing structure.

AS-BUILT PLANS FOR S.N. 021-0037

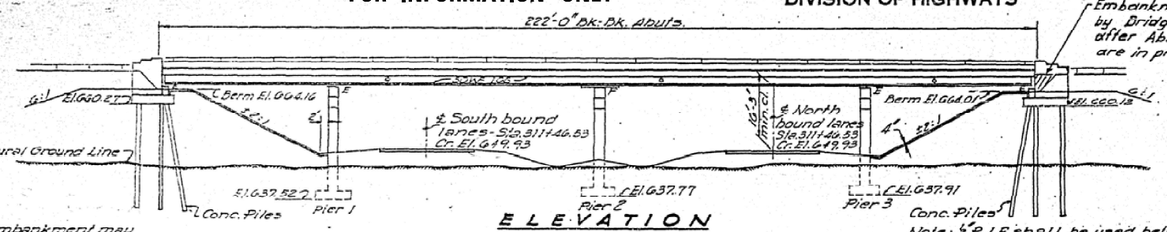
FOR INFORMATION ONLY

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

DISTRICT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 57	21-26 HB-1	DOUGLAS	16	6A

SHEET NO. 1
10 SHEETS

FED. AID PROJECT: I-57-5(67)205

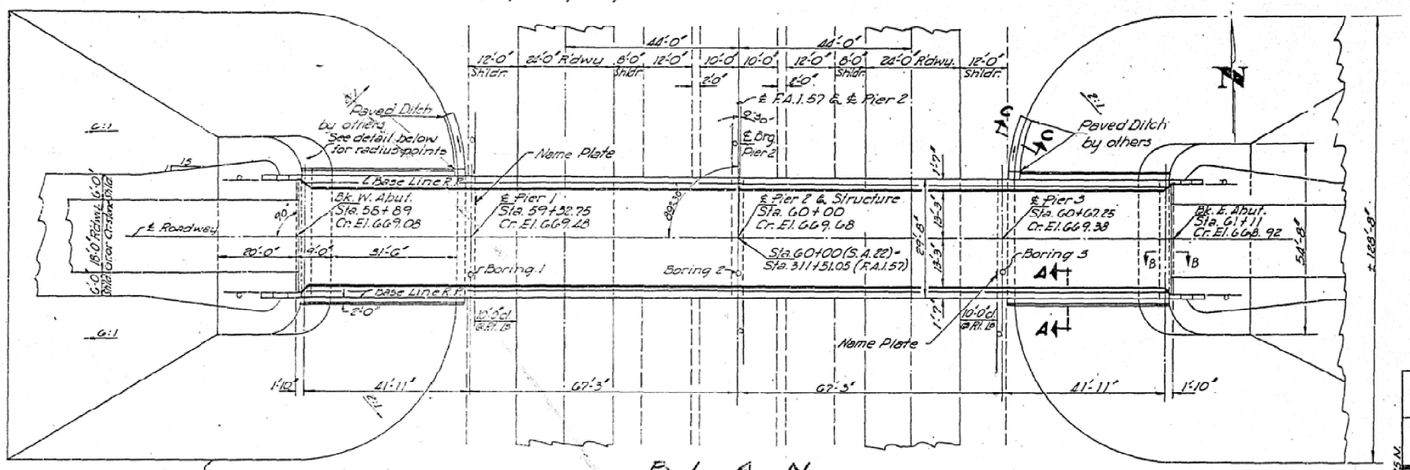


ELEVATION

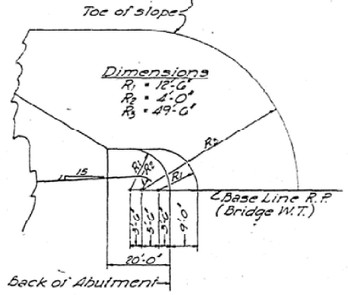
Note: Radii for embankment may be varied to suit ground conditions.

Note: Skew Piers and make abutments and Pier bngs. at right angles.

Note: ½" P.J.F. shall be used between faces of Piers & Slope wall.

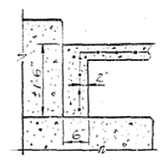


PLAN



TYPICAL RADIUS POINT LOCATIONS

(Reverse as required)



SEC. B-B

DESIGNED D. Parnell
CHECKED Fred Stone
J. Mullenix
DRAWN
CHECKED F.S.

JUNE 6 1961

EXAMINED
ENGINEER OF BRIDGES AND TRAFFIC STRUCTURES
PASSED
ENGINEER OF DESIGN
APPROVED
CHIEF HIGHWAY ENGINEER

FIELD WELDING OF CONSTRUCTION ACCESSORIES TO THE BOTTOM FLANGES OR FOR A DISTANCE OF ⅓ OF THE SPAN EACH WAY FROM PIER SUPPORTS ON THE TOP FLANGES OF BEAMS OR GIRDERS WILL NOT BE PERMITTED. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.

* Includes use on inside vertical face, top & exposed end of abutment wings.

TOTAL BILL OF MATERIAL

Item	Unit	Sub	Super	Total
Class A Excav. for Struct.	Cu. Yds.	290		290
Class X Concrete	Cu. Yds.	243.2	191.5	434.7
Structural Steel	Lbs.		145,815	145,815
Aluminum Handrail	Lin. Ft.		440	440
Reinforcement Bars	Lbs.	18,990	46,170	65,160
Concrete Piles	Lin. Ft.	595		595
Test Piles (Concrete)	Each	1		1
Name Plates	Each	2		2
Slope Wall	Sq. Yds.	371		371
Protective Coat	Sq. Yds.			860

ADDITIONAL GENERAL NOTES

Abutment piles shall be pre-cored thru embankment in accordance with Article 60.9 (c) of the Standard Specifications.

Coarse aggregate which is to be used in end posts must be absolutely free of chert, flint, limonite, lignite and soft sandstone.

Excavation for portions of structure in the embankment shall not be classified.

GENERAL NOTES

Class X concrete shall be used throughout.

The concrete floor slab shall be finished in accordance with Article 51.19 of the Standard Specifications.

Slope walls shall be reinforced with welded wire fabric 6"x6" mesh 4 wires weighing 58# per 100 sq. ft.

Quantity of cut off wall is included with slope wall.

Rivets ¾" ø open holes 12" unless noted.

All bolster, rockers, bearing plates, lead plates, pintles and anchor bolts shall be fabricated and set in accordance with Article 51.15 of the Standard Specifications and are included in the quantity of structural steel.

Anchor bolts shall be set before fastening diephragms over supports.

Structural steel in stringers, cover plates and splice plates shall conform to ASTM Designation A-36.

Expansion guards shall be fabricated and erected in accordance with Article 51.13 (d) of the Standard Specifications.

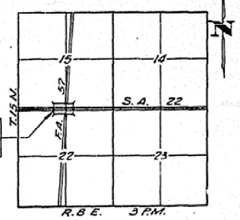
Expansion guards are included in quantity of structural steel. (Est. wt. = 650#)

All outside faces of vertical legs of I's in expansion guards shall be given two shop coats of red lead paint.

Except as otherwise provided, all structural steel shall receive one shop coat of red lead paint and two field coats of paint. See Special Provisions for field paint.

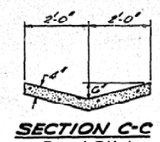
All paint shall be furnished and applied by the contractor.

The contractor shall drive one test pile in permanent location before ordering remainder of piles. (One test pile at west abutment.)

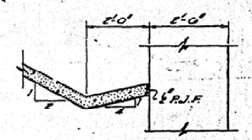


PROPOSED STRUCTURE

LOCATION SKETCH



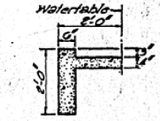
SECTION C-C
Paved Ditch by others



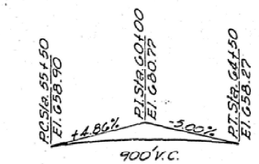
SECTION AT PIERS FOR SLOPE WALL DETAILS

STATION 311+51.05
BUILT 196 BY
STATE OF ILLINOIS
F.A.I. RT. 57 SEC. 21-26HB-1
F.A. PROJ. I-57-5(67)
LOADING HS15

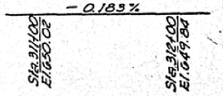
NAME PLATE
See Standard 2113-1



SECTION A-A



GRADE PROFILE-GALTON ROAD (S.A. 22)



GRADE PROFILE F.A.I. RT. 57
Stations increase to north

DESIGN STRESSES

f_c = 1400 psi Super & Sub.
f_v = 75 psi
f_s = 20,000 psi Reinf.
f_s = 20,000 psi Struct.
n = 10
Max. footing pressure = 7,380 p.s.f.
Allowable ℄ Defl. = $\frac{L}{1000}$ Non-Composite

LOADING HS 15-44

GENERAL PLAN & ELEVATION

PROJ. I-57-5 (67) 205
GALTON ROAD (SA 22)
F.A.I. ROUTE 57 SEC. 21-26 HB-1
DOUGLAS COUNTY
STATION 311+51.05

Revised 12/14/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 (Added Protective Coat) and metal handrail to aluminum rail & parapet

Revised 11/21/66 J.F.K. ~ Changed: Class X concrete from 243.2, 212.3 & 456.1 to 239.6, 182.5 & 422.1; Struct. Steel from 145,815 to 145,415; Reinf. from 19,050, 45,900 & 64,950 to 18,080, 36020, & 54,100 and deleted metal handrail & parapet

Revised 11/8/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 11/1/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 10/26/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 10/19/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 10/14/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 10/12/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 10/7/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 10/5/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 9/28/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 9/21/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 9/14/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 9/7/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 8/31/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 8/24/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 8/17/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 8/10/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 8/3/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 7/27/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 7/20/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 7/13/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 7/6/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 6/29/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 6/22/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 6/15/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 6/8/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 6/1/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 5/25/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 5/18/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 5/11/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 5/4/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 4/27/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 4/20/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 4/13/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 4/6/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 3/30/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 3/23/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 3/16/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 3/9/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 3/2/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 2/23/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 2/16/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 2/9/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 2/2/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 1/26/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 1/19/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 1/12/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 1/5/66 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 12/29/65 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 12/22/65 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 12/15/65 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 12/8/65 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 12/1/65 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 11/24/65 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 11/17/65 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 11/10/65 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 11/3/65 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 10/27/65 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 10/20/65 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 10/13/65 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 10/6/65 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 9/29/65 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 9/22/65 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 9/15/65 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 9/8/65 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 9/1/65 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 8/25/65 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 8/18/65 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 8/11/65 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 8/4/65 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 7/28/65 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 7/21/65 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 7/14/65 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 7/7/65 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 6/30/65 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 6/23/65 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 6/16/65 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 6/9/65 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 6/2/65 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 5/26/65 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 5/19/65 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 5/12/65 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 5/5/65 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 4/28/65 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 4/21/65 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 4/14/65 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 4/7/65 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 3/31/65 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212.3 & 456.1; Struct. Steel from 145,415 to 145,815; Reinf. from 18,080, 36020, & 54,100 to 19,050, 45,900 & 64,950 and metal handrail to aluminum rail & parapet

Revised 3/24/65 J.F.K. ~ Changed: Class X concrete from 239.6, 182.5 & 422.1 to 243.2, 212

AS-BUILT PLANS FOR S.N. 021-0037

FOR INFORMATION ONLY

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 57	21-26 HB-1	DOUGLAS	16	6

SHEET NO. 2
10 SHEETS

Note: Bars indicated thus 20K3 - # 5 etc. indicates 20 lines of bars with 3 lengths per line. Min. bar laps = 20 dia.

222'-0" Bk. To Bk. Abuts.
221'-0"

7"
1'-10"
41'-11" C. To C. Bearings
67'-3" C. To C. Bearings

Note: Place 1" P.J.F. between vertical faces of slab and abutment.

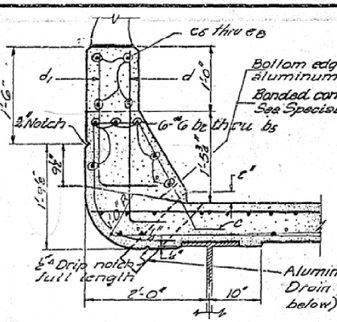
SECTION B-B

6 Spaces @ ± 6'-0" c/s = 36'-0"
Floor drains, Spans 1 and 4 only (Space to miss diaphs.)

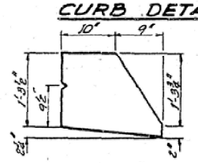
℄ Pier #2 — 0°30' — ℄ Brg.

Slope 3/4" in 12"
2'-0" 2'-0" 12"
℄ Brg.
℄ Pier #1
0°30'
189-#5 Bars a @ 16" c/s.
188-#5 Bars a_1 @ 14" c/s. Top.
188-#5 Bars a_2 @ 14" c/s. Bott.
Ct. Abut.
B B
2-#4 Bars h Bot. of slab
38-#6 Bars b_2 @ 6" c/s. between b_1 bars over Piers 1 and 3
38-#6 Bars b_3 @ 6" c/s. between b_1 bars over Pier 2.
℄ Roadway
Symm. about this line thru rotation of 180°
A A
33-#6 Bars x @ 9" c/s. Top of slab
7'-6" 9'-0" 11'-6" 5'-6"
7'-9" 12'-6"
10-#5 Bars b_4 @ 18" c/s. Top of slab (1-length)
36-#5 Bars b_5 as shown in cross section Bottom of slab (11-lengths)
18'-9" 19'-3" 19'-9" 1'-6"
1'-6" 6'-6" 6" See Cross Section (2-lengths)
6'-6 Bars b_2 See Cross Section
0'-9"
6"-6 Bars b_3 See Cross Section
6"-6 Bars b_4 See Cross Section (2-lengths)
6"-6 Bars b_5 See Cross Section
Construction Joints in curb to top of slab (aluminum sheets)
7'-0" 7'-0" 9'-7"
45'-6" 67'-3"

HALF PLAN

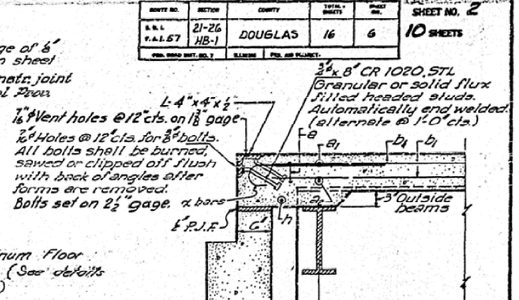


CURB DETAIL

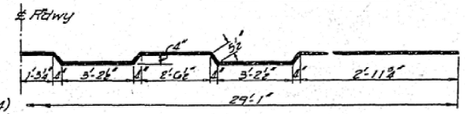


DETAIL - ⅛" ALUMINUM SHEETS (Used in Curb Joints 3003-H14)

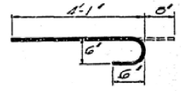
(Cost of aluminum sheets incidental)



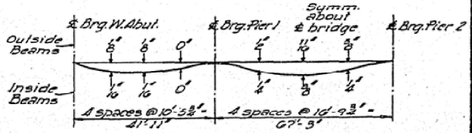
SECTION A-A



BAR a

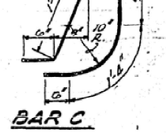


BAR x

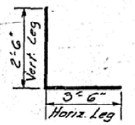


DEAD LOAD DEFLECTION DIAGRAM

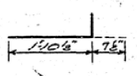
(Weight of Concrete Only)



BAR c



BAR d



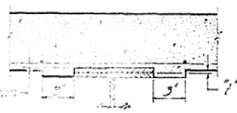
BAR d1

BILL OF MATERIAL

BAR	SIZE	NO.	LENGTH	SLOPE
a	#5	189	30'-1"	
a_1	#5	188	29'-1"	
a_2	#5	188	28'-3"	
b_1	#5	616	21'-0"	
b_2	#6	48	18'-1"	
b_3	#6	48	6'-8"	
b_4	#6	48	25'-8"	
b_5	#6	24	9'-5"	
b_6	#6	76	17'-5"	
b_7	#6	58	20'-3"	
d	#6	440	6'-0"	
d1	#4	440	2'-6"	
h	#4	h	28'-6"	
c	#4 & #6	378	5'-6"	
x	#6	66	4'-9"	
Class X Concrete			Cu.Yd.	178.0
Reinforcement Bars			Lb	44,980
*Structural Steel			Lb	145,515

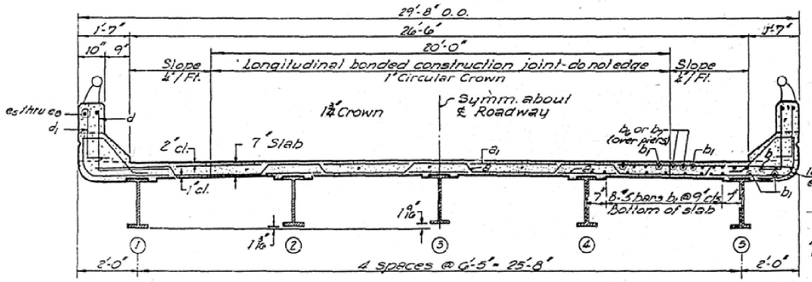
*Weight of Bolsters, Rockers, Bearing Plates and Anchor Bolts included in Structural Steel.
Estimated Wt. 6,575 lbs.

The lengths and quantities of longitudinal = reinforcement & Class X Concrete in parapet are not included in above. See Sheet #4.



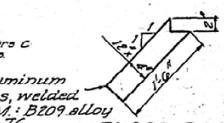
METHOD OF DETERMINING FILLET HEIGHT "f"

After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at the intervals shown on sheet 4. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheet 6 minus floor thickness equals the fillet heights above top of beams.



TYPICAL CROSS SECTION

Note: For detail & spacing of c_5 thru c_8 and d & d_1 bars see sheet #4.



FLOOR DRAIN

Cost incidental to structure

DESIGNED	D. Purcell
CHECKED	Fred Stone
DRAWN	J. Mullenix D.A.
CHECKED	F.S.

JUNE 5 1961

EXAMINED — ENGINEER OF BRIDGES AND TRAFFIC STRUCTURES
PASSED — ENGINEER OF DESIGN
APPROVED — CHIEF HIGHWAY ENGINEER

Revised 11/6/61 In HALF PLAN 0°30' angle Symm. ℄ Brg. and ℄ Pier #1 & #3, and Ct. Abut. ℄ Brg. and ℄ Pier #2 moved from the rectangular pattern to the parallelogram pattern.

Revised 8/6/62 by K.O. — Changed Class X Conc. Quantities from 192.6 to 178 cu. yds. — Reinforcement from 44,110 to 44,980 lbs. — Curb Sec. & Parapet.

SUPERSTRUCTURE

GALTON ROAD (SA 22)
F.A.I. ROUTE 57 SEC. 21-26 HB-1
DOUGLAS COUNTY
STATION 311 + 51.05

MODEL: $MODELNAMES
FILE NAME: pw:\\Bidview.bentley.com:PWIDOT\Documents\IDOT Offices\District 5\ORD Projects\D5700913\CADData\CADdata\D5700913CADData\D5700913-3sht-AA_Builts.dgn

USER NAME = Steven.Wood	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -
PLOT DATE = 8/12/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #2 S.N. 021-0037

SCALE: NONE | SHEET 2 OF 3 SHEETS | STA. | TO STA.

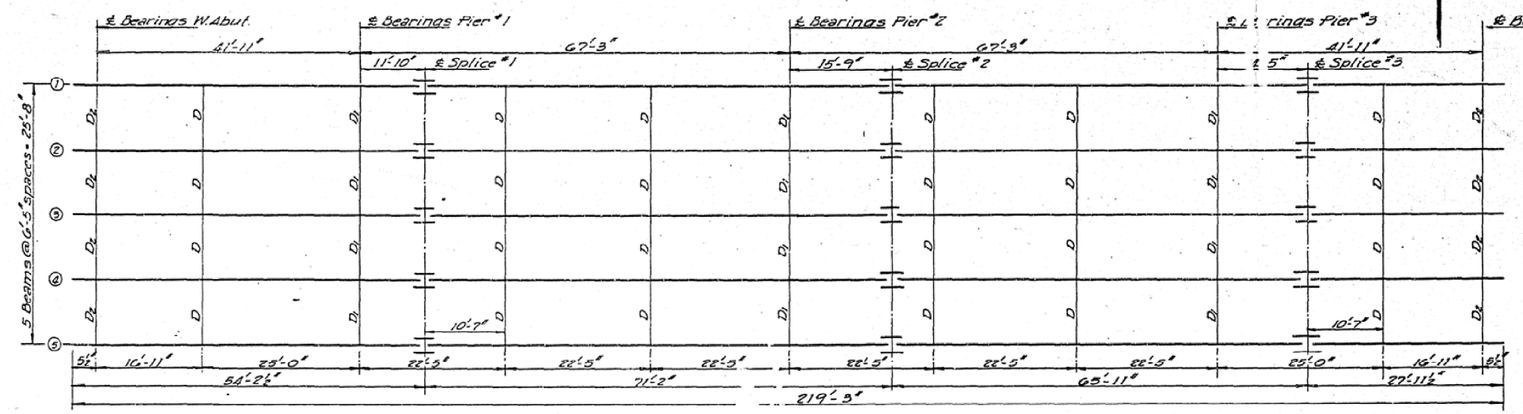
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	21
	* DOUGLAS & VERMILION		CONTRACT NO. 70G13	
		ILLINOIS	FED. AID PROJECT	

AS-BUILT PLANS FOR S.N. 021-0037
FOR INFORMATION ONLY

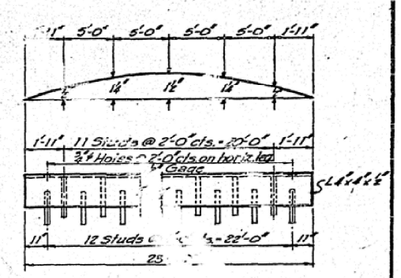
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 57	21-26 HB-1	DOUGLAS	14	7
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

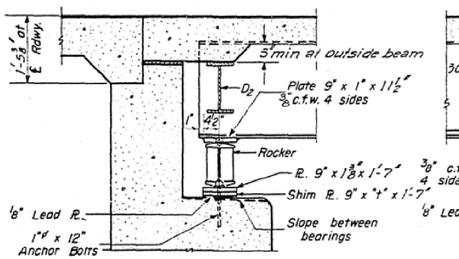
SHEET NO. 3
10 SHEETS



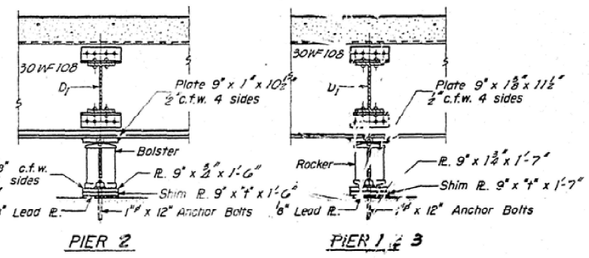
STRUCTURAL STEEL
(All Beams 30WF100)



DETAIL OF GUSSET PLATES
(See sheet 2 for holes on vertical leg.)

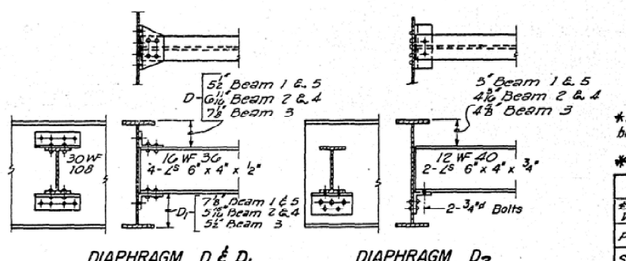


SECTION AT ABUTMENT



PIER 2

PIER 1 & 3



DIAPHRAGM D & D1
24 D Required
12 D1

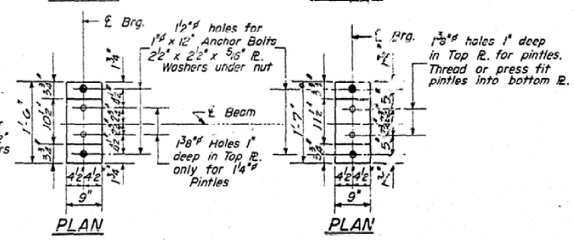
DIAPHRAGM D2
8 Required

*Note: Top of Beam Elevations are to be ½" lower than those shown in Table.

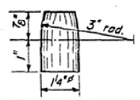
*** ELEVATION TOP OF BEAMS**

	BEAM 1	BEAM 2	BEAM 3	BEAM 4	BEAM 5
℄ BEAR. W. ABUT.	668.43	668.53	668.56	668.53	668.43
PIER #1	668.74	668.84	668.87	668.84	668.74
SPLICE #1	668.84	668.94	668.97	668.94	668.84
PIER #2	669.92	669.02	669.05	669.02	668.92
SPLICE #2	668.94	669.04	669.07	669.04	668.94
PIER #3	668.63	668.73	668.76	668.73	668.63
SPLICE #3	668.55	668.65	668.68	668.65	668.55
℄ BEAR. E. ABUT.	668.28	668.38	668.41	668.38	668.28

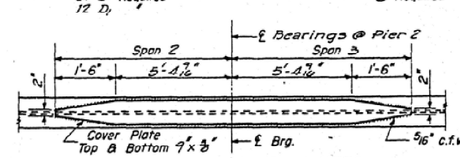
PLAN



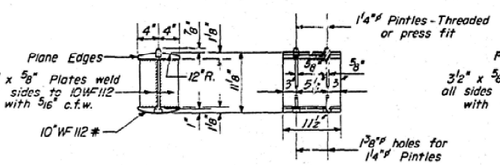
PLAN



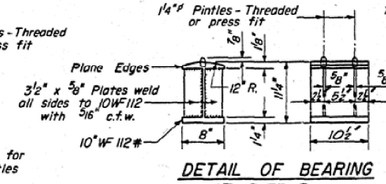
DETAIL OF PINTLE



DETAIL OF COVER PLATES
(Over Pier #2)



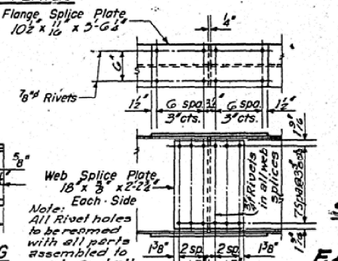
DETAIL OF BEARING AT PIER 1, 3 & ABUTS.



DETAIL OF BEARING AT PIER 2

TABLE OF "t" DIMENSIONS

	W. ABUT.	PIER 1	PIER 2	PIER 3	E. ABUT.
BEAM 1	0	0	0	0	0
BEAM 2	3/16"	3/16"	3/16"	3/16"	3/16"
BEAM 3	5/16"	5/16"	5/16"	5/16"	5/16"
BEAM 4	3/16"	3/16"	3/16"	3/16"	3/16"
BEAM 5	0	0	0	0	0



DETAIL OF SPLICE

DESIGNED D. Panek
CHECKED Fred Stone D.P.
DRAWN W.A. Sausaman
CHECKED F.S.

EXAMINED W.E. Baumann
PASSED E.E. Hunt
APPROVED R.L. Bartelsmeyer
JUNE 6 1961

I-2 Re-drawn 8-18-59

STRUCTURAL STEEL DETAIL
GALTON ROAD (SA 22)
F.A.I. ROUTE 57 SEC. 21-26 A. -1
DOUGLAS COUNTY
STATION 311+51.05

MODEL: SMODELNAMES
FILE NAME: pw:\\bldd4ww.bentley.com:PWBDOT\Documents\BDOT Offices\District 5\ORD Projects\D57G13\CADData\CADsheets\D57G13-3-sht-AA_Built-s.dgn

USER NAME = Steven.Wood	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -
PLOT DATE = 8/12/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #2 S.N. 021-0037
SCALE: NONE | SHEET 3 OF 3 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	22
	* DOUGLAS & VERMILION		CONTRACT NO. 70G13	
	ILLINOIS	FED. AID PROJECT		

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

AS-BUILT PLANS FOR S.N. 021-0046
FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 57	21-27 HB	DOUGLAS	30	6
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT: I-57-5(87)205		

SHEET NO. 1
11 SHEETS

B.M. - "11, Nail in Telephone Pole 210' L.t. of Sta. 384+00 Elev. 646.00"

This portion of Embankment backfill by Bridge Contractor after the Abutment is in place.

Parapet Handrail

Cr. of Adtry.

Lt. 660.49 Const. Slope

Lt. Br. El. 663.42

4' Slope Wall (Typ.)

33'-11" with Cover Pls @ Pier 2

Rt. Br. El. 663.42

Rt. 660.49

Natural Ground

Pipe Culvert 36"x130' Type 2A R.C.P. Cl. III U.S.F.L. 642.69 D.S.F.L. 642.78

Elev. 637.29

Elev. 637.58

Elev. 634.29

Pipe Culvert 36"x130' Type 2A R.C.P. Cl. III U.S.F.L. 642.96 D.S.F.L. 642.84

Paved Ditch by Others

Shldr. Line

Edge of Deck

ELEVATION

SECTION A-A

Boring #1

Up 30 for 1

Boring #2

Boring #3

B.M. Abut. Sta. 69+44.50 Cr. Elev. 666.64

Sta. 69+70

℄ Pier 1 Sta. 69+92.25 Cr. El. 669.10

℄ Pier 2 Sta. 70+66.50 Cr. Elev. 668.37

Sta. 381+17.45 FA.I. 57 / Sta. 70+66.50 Reloc. TR. 108

℄ Pier 3 Sta. 71+40.75 Cr. Elev. 669.10

Sta. 71+60

Bk. of Abut. Sta. 71+88.50 Cr. Elev. 668.64

℄ TR. 108 (Reloc.)

Gravel Road

Guardrail & Posts by others (Typ.)

Shoulder Lines

℄ Structure Sta. 70+66.50 (Reloc. TR. 108) - Sta. 381+17.45 FA.I. 57

℄ FA.I. Rt. 57

℄ Abut. to ℄ Abut. 644'-0"

PLAN

P.C. Sta. 381+00 Elev. 649.87

P.I. Sta. 384+00 Elev. 649.00

P.T. Sta. 387+00 Elev. 649.30

L = 600'

-0.09%

+0.10%

V.C. DATA FA.I. RT. 57

Face of Pier

2'-0" Rad.

DETAIL OF SLOPE WALL

Cr. of Adtry.

P.I. Sta. 70+66.50 Cr. Elev. 671.81

+3.98%

-3.96%

L = 600'

V.C. DATA TR. 108 RELOC.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Class A Exc. Struct.	Cu. Yd.			33.1
Class X Concrete	Cu. Yd.	213.7	230.4	444.1
Structural Steel	Lb.	192,230		192,230
Aluminum Handrail	Lin. Ft.	483		483
Pipe Culvert 36" (Type 2A R.C.P. Class III)	Lin. Ft.			260
Reinforcement Bars	Lb.	48,040	18,200	66,240
Concrete Piles	Lin. Ft.		629	629
Test Piles (Concrete)	Each		1	1
Name Plates	Each			2
Slope Wall	Sq. Yd.			197
Protective Coat	Sq. Yds.			931

DESIGN STRESSES

fs - 20,000 p.s.i. Reinf.
fs - 20,000 p.s.i. Struct.
fc - 1,400 p.s.i. Super
vc - 75 p.s.i. Pigs.
P - 10
LOADING H S15-44

STATION 381+17.45
BUILT 1966
STATE OF ILLINOIS
FA.I. RT. 57 SEC. 21-6H,HB
FA. PROJ. I-57-5(87)
LOADING H S 15

NAME PLATE
See Std. 611.3-1

GENERAL NOTES

Class X Concrete shall be used throughout.

Coarse aggregate which is to be used in all end posts must be free of chert, limonite, lignite, and soft sandstone.

The concrete floor slab shall be finished in accordance with Article 51.19 of the Standard Specifications.

Slope wall shall be reinforced with welded wire fabric 6"x6" mesh, 4 wires, weighing 58 lbs. per 100 sq. ft.

Permanent forms will not be permitted in forming the concrete floor.

All Structural Steel shall conform to A.S.T.M. designation A-36.

Rivets ⅞" ℄. Open holes ⅞" ℄ unless noted.

All bolsters, rockers, bearing plates, lead plates, pintles, and anchor bolts shall be fabricated and set in accordance with Article 51.15 of the Standard Specifications and are included in quantity of Structural Steel. Est. Weight 7130 lbs.

Anchor bolts shall be set before riveting diaphragms over supports.

Expansion guards shall be fabricated and erected in accordance with Article 51.13(c) of the Standard Specifications.

Expansion guards are included in quantity of Structural Steel. Est. Weight 855 lbs.

Except as otherwise provided all structural steel shall receive one shop coat of red lead paint and two field coats of paint. See **Special Provisions for field paint.**

Piles in the Abutments shall be driven in holes precored through the embankment to the natural ground line, in accordance with Article 60.9(c) of the Standard Specifications.

The Contractor shall drive 1 test pile in a permanent location as directed by the Engineer before ordering remainder of piles. One test pile at ea. Abut.

Excavation for portions of structures in the embankment shall not be classified.

All reinforcement bars shall be lapped 20 diameters unless otherwise shown.

Field welding of construction accessories to the bottom flanges or flange angles of the fourth girder from each way from pier supports on the top flanges of beams or girders will not be permitted. Field welding in other areas will be permitted only when approved by the engineer.

Proposed Constr.

Trail

Existing Trail

Sta. 3+94

LOCATION PLAN

PROJ. I-57-5(87)205
GENERAL PLAN & ELEVATION
FA.I. RT. 57 - SEC. 21-6H,HB
DOUGLAS COUNTY
STA. 381+17.45

Nov. 16 1967

DESIGNED	R.K. Taylor
CHECKED	O.H. Hagewiesche
DRAWN	R.K.T. rub.paper
CHECKED	O.H.H.
EXAMINED	H.E. Rasmussen, Engineer of Bridge and Traffic Structures
PASSED	Engineer of Design
APPROVED	R.R. Bartelsmeyer, Chief Highway Engineer

Revised 6-27-68 RHH. Updated to present standards. Quantities changed: Total Class X Concrete 439.3 Cu. Yds. to 456.0 Cu. Yds. Total Reinforcement Bars from 53,510 lbs. to 61,480 lbs. New Quantity, Protective Coat 931 Sq. Yds. Change Metal Handrail to Aluminum Handrail. Added Parapet Handrail

Revised 3-31-67 W.M.C. Straightened Wing Walls - Add Anchor Bolts and Guard Rails Increase Class X Concrete from 218.4 to 229.7 (Super) from 235.6 to 230.4 (Sub) from 454.0 to 460.1 (Total) Structural Steel from 191310 to 192230 Reinforcement Bars from 17240 to 18310 (Sub) from 61480 to 62300 (Total) Rev. 7-24-67 Hdl., Mod. Sloped Curb, Total Bill Material, Class X Conc. from 460.1 cu. yds to 446.1 cu. yds.

USER NAME = Steven.Wood	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -	
PLOT DATE = 8/12/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #3 S.N. 021-0046

SCALE: NONE | SHEET 1 OF 3 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	23
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
	ILLINOIS	FED. AID PROJECT		

MODEL: $MODELNAME$
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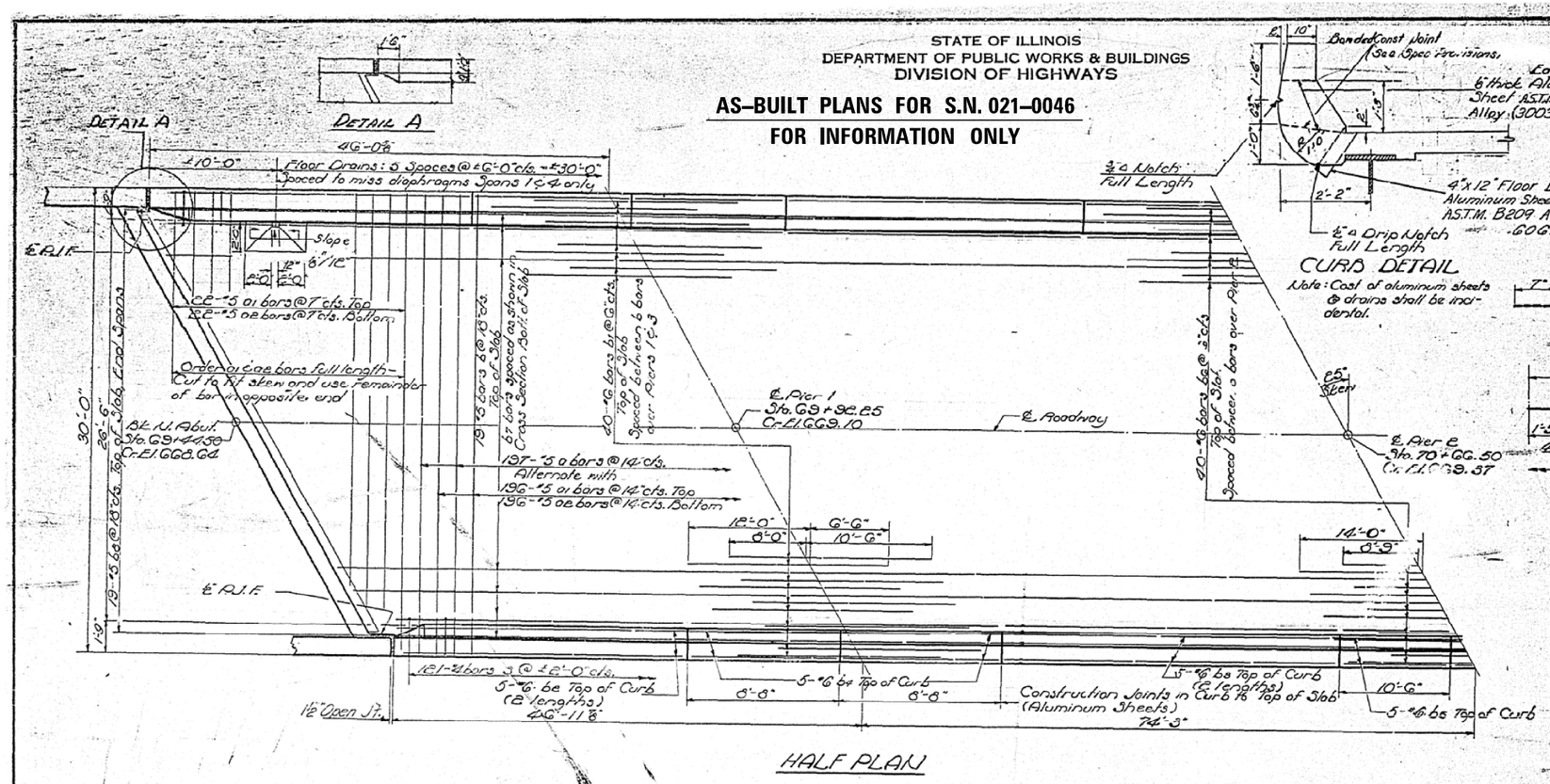
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

AS-BUILT PLANS FOR S.N. 021-0046

FOR INFORMATION ONLY

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21-27 HB	DOUGLAS	30	9

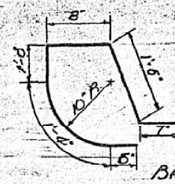
SHEET NO. 4
11 SHEETS



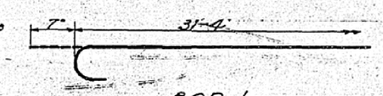
HALF PLAN

CURB DETAIL

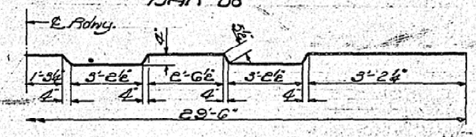
Note: Cost of aluminum sheets & drains shall be incidental.



BAR 3



BAR 6a

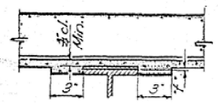


BAR o

BILL OF MATERIAL

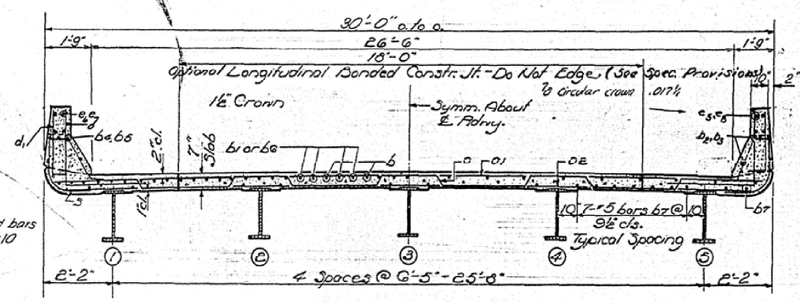
Bar	No.	Size	Length	Shape
a	137	#5	30'-6"	
a1	218	#5	29'-0"	
ae	218	#5	29'-0"	
	152			
b	112		31'-4"	
b1	60		18'-6"	
be	40		19'-3"	
b2	40		20'-0"	
b4	40		21'-6"	
b5	80		10'-3"	
b6	40		22'-5"	
b7	256		3'-4"	
b8	38		4'-11"	
3	842		4'-6"	
* Class X Concrete			cu. yds.	213.7
* Reinforcement			Lb.	18340
Structural Steel			Lb.	12230

* Includes parapet quantities. See Sheet #10



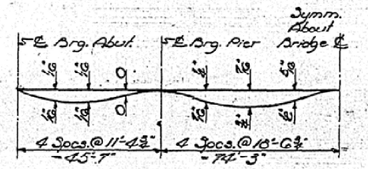
METHOD OF DETERMINING FILLET HEIGHTS 7"

After all Structural Steel has been erected elevations of the top flanges of the beams shall be taken at the stations shown on Sheet 3. These elevations subtracted from the theoretical Grade Elevations Adjusted for Dead Load Deflection shown on Sheet 3, minus floor thickness equals the fillet heights above top of beams.



CROSS SECTION

Bar List for a e f d bars shown on page #10



DEAD LOAD DEFLECTION DIAGRAM

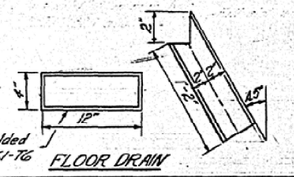
DESIGNED	R.H. Taylor
CHECKED	G.H. Hogan
DRAWN	R.K.T. rvl. jacobs
CHECKED	G.H.H.

Nov 16 1961

EXAMINED H.E. Baumann, ENGINEER OF BRIDGES AND TRAFFIC STRUCTURES

PASSED E.E. Wenzel, ENGINEER OF DESIGN

APPROVED R.R. Bartelmeyer, CHIEF HIGHWAY ENGINEER



FLOOR DRAIN

3/16" Aluminum Sheets welded A.S.T.M.: B209 alloy 6061-T6

SUPERSTRUCTURE
F.A.I.R.T. 57 - SEC. 21-27HB
DOUGLAS COUNTY
STA. 381+17.45

Rev. 8-27-64 P.M.H. Increased curb width from 2'-10" to 3'-0" Increased Curb height from 11" to 9"; Increased o to o. width from 29'-8" to 30'-0". Added parapet & Reinf. Changed Quantities; Class X Conc. from 197.6 Cu. Yds. to 218.9.; Reinf. Bars from 36,220 to 49,140 lbs.

Rev. 3-31-67 W.M.C. Increase slab thickness from 6½" to 7" Clearance Diam. 15" to 2" Add Drain Data' Class X Concrete from 218.9 to 229.7 Structural Steel from 19830 to 22230

Rev. 7-21-67 H.M.K. New Curb Change Class X Conc. from 229.7 cu yds to 213.7 cu yds. Reinf. bars from 44190 lbs to 48040 lbs.

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USER NAME = Steven.Wood	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -	
PLOT DATE = 8/12/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #3 S.N. 021-0046

SCALE: NONE | SHEET 2 OF 3 SHEETS | STA. | TO STA.

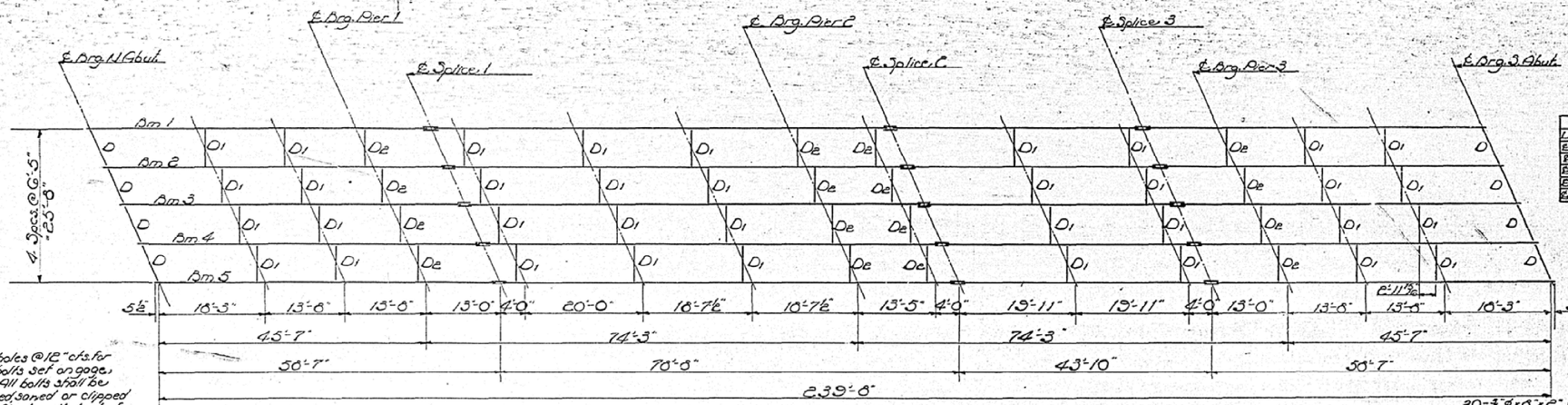
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	24
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
	ILLINOIS	FED. AID PROJECT		

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

AS-BUILT PLANS FOR S.N. 021-0046
FOR INFORMATION ONLY

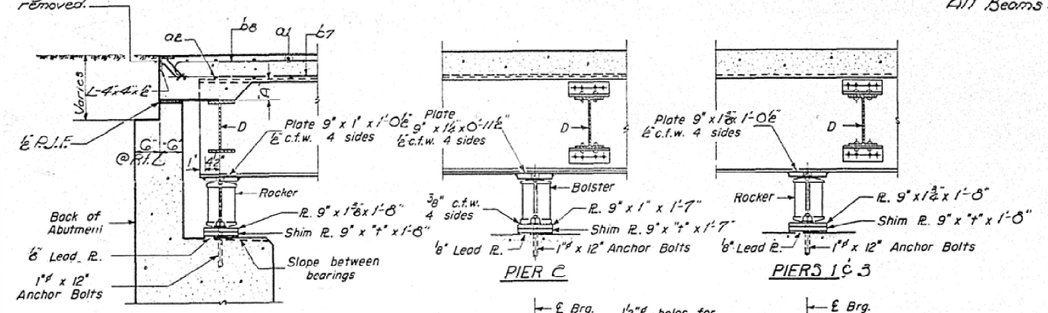
SCHEME NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.I. F.A.I. 57	21-27 HB	DOUGLAS	30	10
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 5
11 SHEETS



FRAMING PLAN
All Beams 33WF130

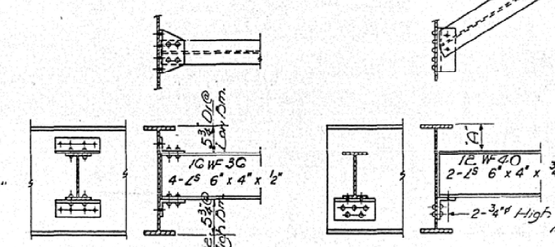
"A" DIMENSIONS					
Location	Bm 1	Bm 2	Bm 3	Bm 4	Bm 5
℄ Brg. Abut 1	0	0	1"	0	0
℄ Pier 1	0	0	1"	0	0
℄ Pier 2	0	0	1"	0	0
℄ Pier 3	0	0	1"	0	0
℄ Brg. 2 Abut.	0	0	1"	0	0



SECTION AT ABUTMENT

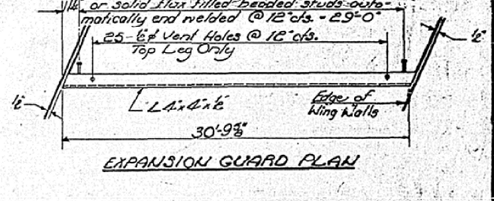
PIER C

PIERS 1 ℄ 3



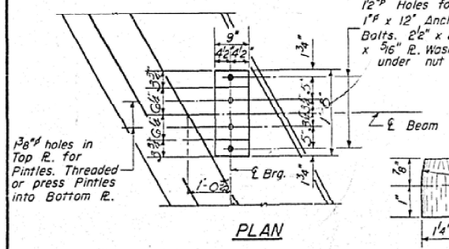
DIAPHRAGM D1 ℄ D2
D1-36 Required
D2-16 Required

DIAPHRAGM D
8 Required

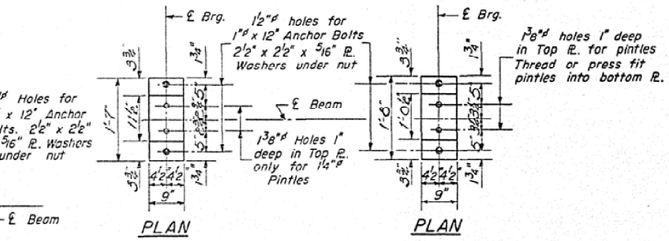


EXPANSION GUARD PLAN

"A" DIMENSIONS					
Location	Bm 1	Bm 2	Bm 3	Bm 4	Bm 5
N. Abut.	3"	4⅜"	5⅜"	4⅜"	3"
S. Abut.	3"	4⅜"	5⅜"	4⅜"	3"

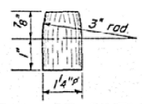


PLAN

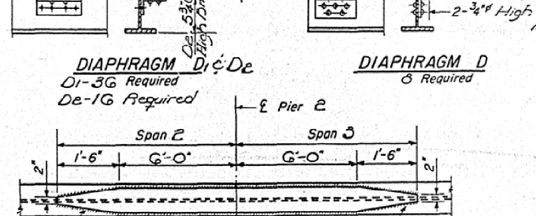


PLAN

PLAN



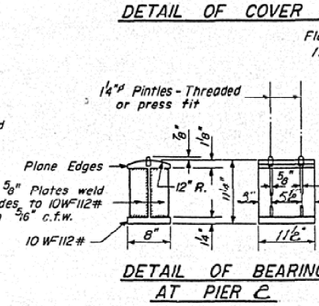
DETAIL OF PINTLE



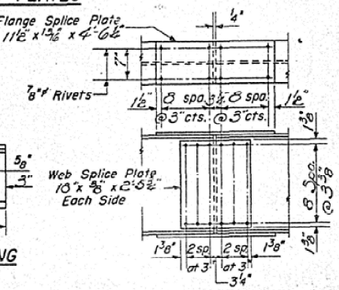
DETAIL OF COVER PLATES

*ELEVATION TOP OF BEAMS					
Location	Bm 1	Bm 2	Bm 3	Bm 4	Bm 5
℄ Brg. Abut 1	667.93	668.07	668.15	668.07	667.93
℄ Pier 1	668.59	668.73	668.81	668.73	668.59
Splice 1	668.40	668.54	668.62	668.54	668.40
℄ Pier 2	668.54	668.68	668.76	668.68	668.54
Splice 2	668.59	668.73	668.80	668.73	668.59
Splice 3	668.40	668.54	668.62	668.54	668.40
℄ Pier 3	668.59	668.73	668.81	668.73	668.59
℄ Brg. 2 Abut.	667.93	668.07	668.15	668.07	667.93

*Note
All Elev. shown in above table should be decreased by .04".



DETAIL OF BEARING AT PIERS 1 ℄ 3 ℄ ABUTS.



DETAIL OF BEARING AT PIER 2

DETAIL OF SPLICE

DESIGNED	R.K. Taylor		
CHECKED	O.H. Hagemann		
DRAWN	R.K.T. rev. 1/66 & 6/68 W.A. Sousamon		
CHECKED	O.H.H.		

Nov. 12 1971

EXAMINED H.E. Baumann — ENGINEER OF BRIDGES AND TRAFFIC STRUCTURES
PASSED E.B. Hunt — CHIEF ENGINEER
APPROVED R.R. Bartelsmeyer — CHIEF HIGHWAY ENGINEER

I-2-R Re-drawn 9-23-59

Rev. 3-31-67 W.M.C. - Bm. Elev. adjustment, Note added & Flange Splice Lengthened.

STRUCTURAL STEEL
F.A.I. RT. 57 - SEC. 21-27HB
DOUGLAS COUNTY
STA. 361 + 17.45

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	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -
PLOT DATE = 8/12/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #3 S.N. 021-0046

SCALE: NONE | SHEET 3 OF 3 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	25
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
	ILLINOIS FED. AID PROJECT			

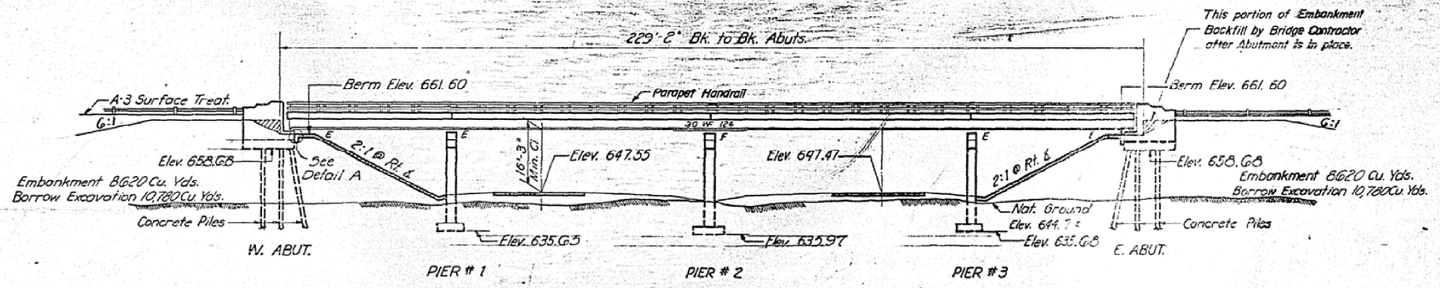
B.M. N° 12 Nail in Power Pole 25' Lt. of Sta. 437+70
Elev. 645.14

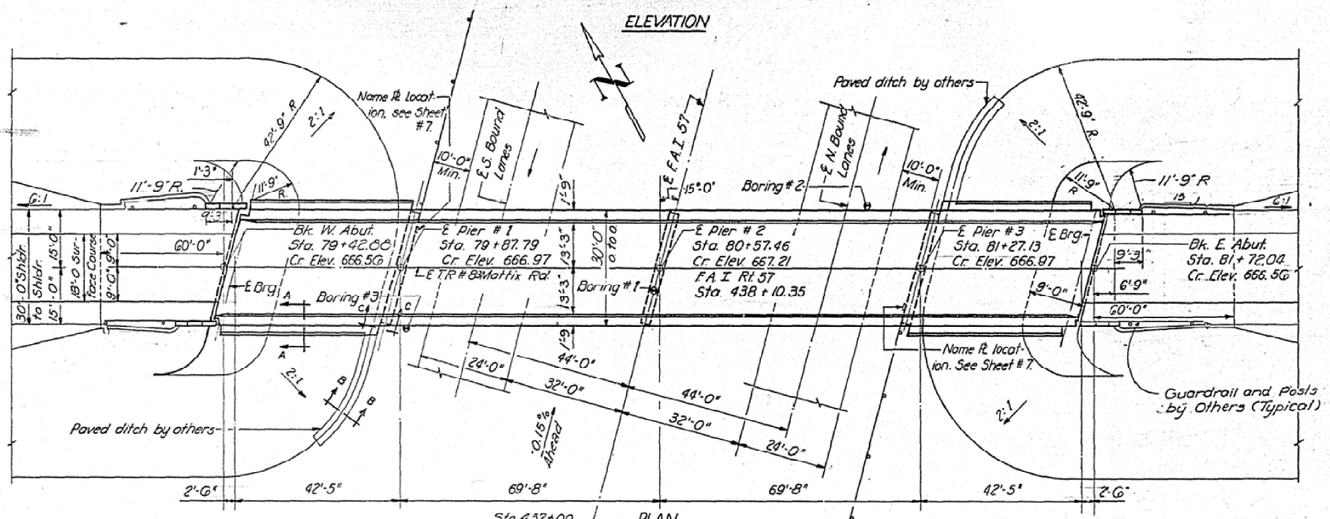
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

AS-BUILT PLANS FOR S.N. 021-0045
FOR INFORMATION ONLY

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 57	21-27 HB-1	DOUGLAS	30	6
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT I-57-5(87)205		

SHEET NO. 1
11 SHEETS





GENERAL NOTES

Class X Concrete shall be used throughout.

The concrete floor slab shall be finished in accordance with Article 51.19 of the Standard Specifications.

Slopewalls shall be reinforced with welded wire fabric, 6" x 6" mesh, # 4 wires, weighing 58# per 100 sq ft

Rivets ¾" ϕ, Open holes ⅞" ϕ, unless noted.

Field connections riveted, unless noted.

All bolsters, rockers, bearing plates, lead plates, pintles, and anchor bolts shall be fabricated and set in accordance with Article 51.15 of the Standard Specifications and are included in quantity of Structural Steel.

Anchor bolts shall be set before riveting diaphragms over supports.

Expansion guards shall be fabricated and erected in accordance with Article 51.13 (d) of the Standard Specifications.

Expansion guards are included in quantity of Structural Steel.

Except as otherwise provided, all Structural Steel shall receive one shop coat of red lead paint and two field coats of [illegible] paint. See Art. 56.1 to 56.5 inclusive of the Standard Specifications and Spec. Provisions.

The Contractor shall drive one concrete test pile in a permanent location at west abutment, as directed by the Engineer, before ordering remainder of piles.

Holes shall be precored to natural ground for piles under abutments. See Article 60.9 (c) of the Standard Specifications.

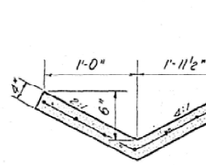
Coarse Aggregate which is to be used in end posts must be absolutely free of chert, flint, limonite, lignite and soft sandstone.

All Structural Steel shall conform to ASTM designation A-36.

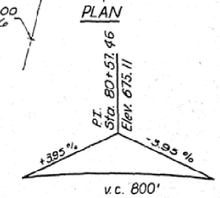
Field welding of construction accessories to the bottom flanges or for a distance of ¼ the span each way from pier supports on the top flanges of beams or girders will not be permitted. Field welding in other areas will be permitted when only when approved by the Engineer.

Permanent forms will not be permitted in forming the concrete floor.

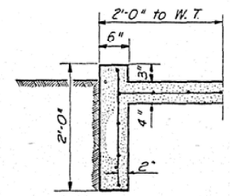
Excavation for portions of structures in the embankment shall not be classified.



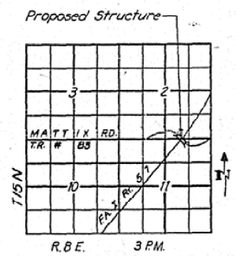
SECTION B-B



VERTICAL CURVE DATA



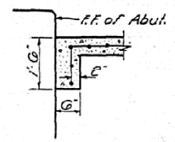
SECTION A-A



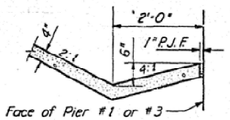
LOCATION PLAN

NAME PLATE LETTERING
See Standard 2113-1

STA. 438+10.35
BUILT 196 BY
STATE OF ILLINOIS
F.A.I. RT. 57 SEC. 21-27HB-1
F.A. PROJ. I-57-5(87)
LOADING H515



DETAIL A



SECTION C-C

DESIGNED Brent W. Wood
CHECKED H. B. Nelson
DRAWN E.B. J. Putnam
CHECKED H.B.N.

EXAMINED H. E. Bruemmer — Sept 19, 1961
PASSED Earl Stewart
APPROVED W. M. Bartelsmeyer

DESIGN STRESSES

fc = 1,400 p.s.i. Super
v = 75 p.s.i. Ftgs.
fs = 20,000 p.s.i. Reinf.
fs = 20,000 p.s.i. Struct.
Max. Footing Pressure 5.5 k.s.f.
n = 10

LOADING H15 - S12 - 44

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Borrow Excavation	Cu. Yds.		21,560	21,560
Class A Excavation for Str.	Cu. Yds.		290	290
Structural Steel	Lbs.	169,920		169,920
Class X Concrete	Cu. Yds.	204.7	234.0	438.7
Aluminum Handrail	Lin. Ft.	452		452
Reinforcement Bars	Lbs.	47,230	20,480	67,710
Concrete Piles	Lin. Ft.		680	680
Test Piles (Concrete)	Each		1	1
Name Plates	Each		2	2
Slope Wall	Sq. Yds.		404	404
* Protective Coat	Sq. Yds.	857		857

* Includes application on exposed inside vertical face, top and exposed end of abutment wings.

GENERAL PLAN AND ELEVATION
PROJECT I-57-5(87)205
T.R. #83 (MATTIX RD.) OVER F.A.I. 57
F.A.I. RT. 57 SEC. 21-27HB-1
DOUGLAS COUNTY
STA. 438+10.35

Rev. 8/20/64 - L.B.N. Updated to new stds., Class X Concrete incr. from 426.6 to 447.0 Cu. Yds.; Reinf. Bars incr. from 55,440 to 63,960 lbs., Added Protective Coat 857 Sq. Yds.; Name Plate Updated; Embankment Rev. Borrow Excavation Incr. from 12,140 to 21,560 Cu. Yds.

Rev. 3/15/67 by H.W.L. - Straightened Wing Walls - Added Anchor Bolts and Guard Rails - Bk. to Bk. Abuts. increased from 226'-2" to 229'-2" - Class X Conc. increased from 447.0 to 453.5 C.Y. - Reinf. Bars from 63,960 to 65,080 lbs.. Structural Steel increased from 169,010 lbs to 169,920 lbs

Rev. 7-21-67 H.W.L. New Sloped Curb, Change Bill of Material - Class X Conc. from 453.5 C.Y. to 438.7 C.Y. Reinf. from 65,020 lbs. to 67,710 lbs.

MODEL: SMODELNAMES
FILE NAME: pw:\\bid4ww.bentley.com:PWBDOT\Documents\IDOT Offices\District 5\ORD Projects\D570G13\CADData\CADSheets\D570G13-sht-A4_Built-.dgn

USER NAME = Steven.Wood	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -
PLOT DATE = 8/12/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #4 S.N. 021-0045

SCALE: NONE | SHEET 1 OF 3 SHEETS | STA. | TO STA.

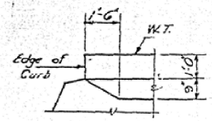
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	26
	* DOUGLAS & VERMILION		CONTRACT NO. 70G13	
		ILLINOIS	FED. AID PROJECT	

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

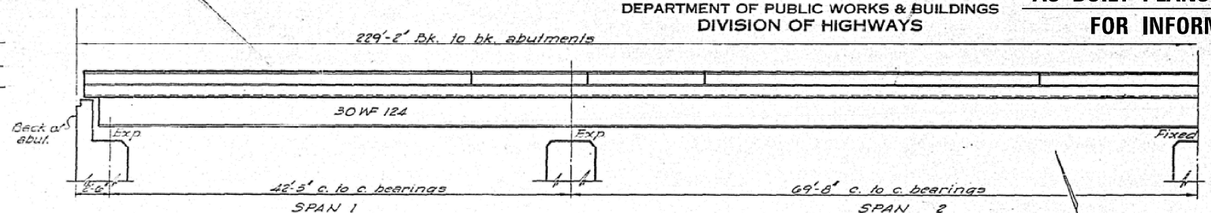
AS-BUILT PLANS FOR S.N. 021-0045
FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 57	21-2B HB-1	DOUGLAS	30	7

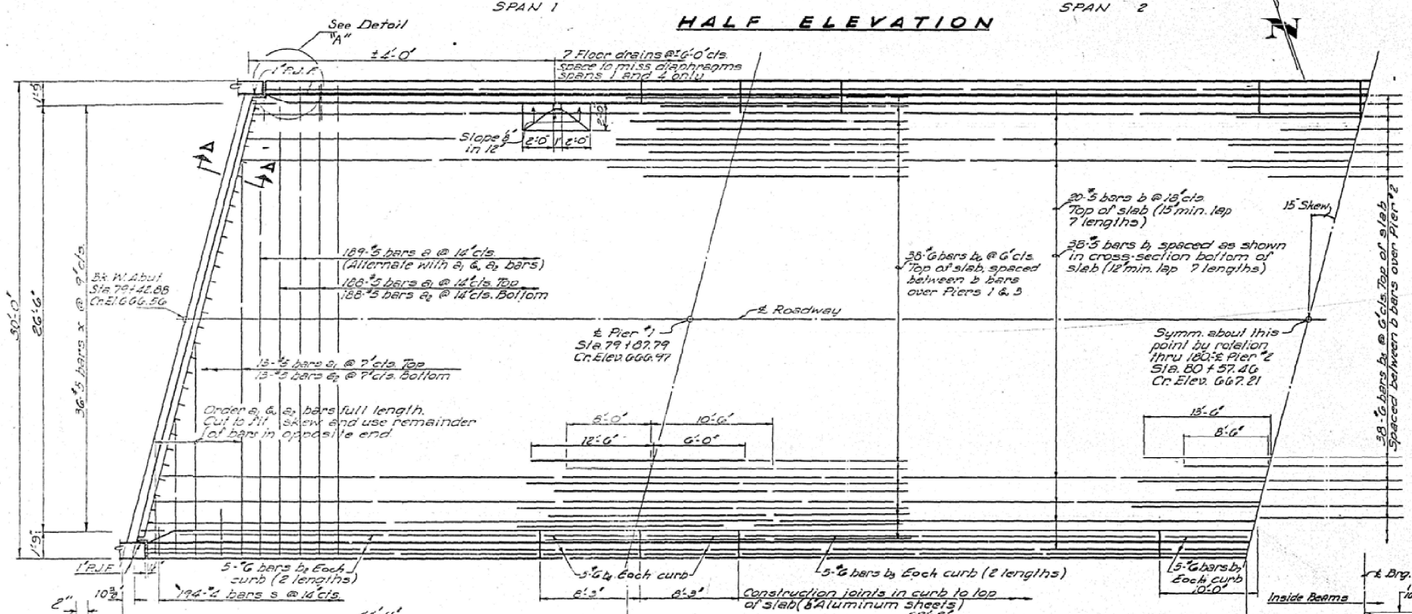
SHEET NO. 5
11 SHEETS



DETAIL "A"

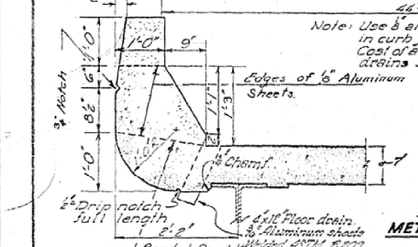


HALF ELEVATION

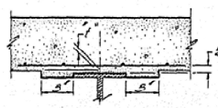


HALF PLAN

Note: Use 8 aluminum sheets (3003-H-14) in curb joints. Cost of aluminum sheets and drains shall be incidental.

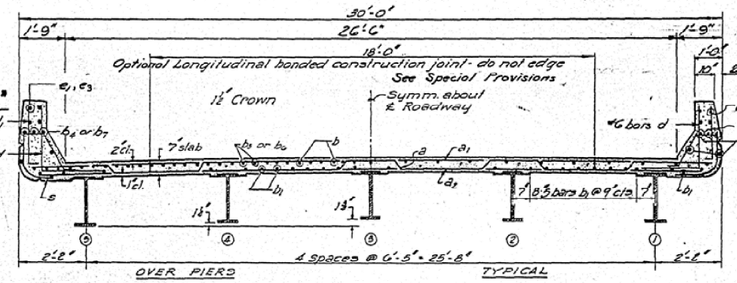


CURB DETAIL



METHOD OF DETERMINING FILLET HEIGHT "f"

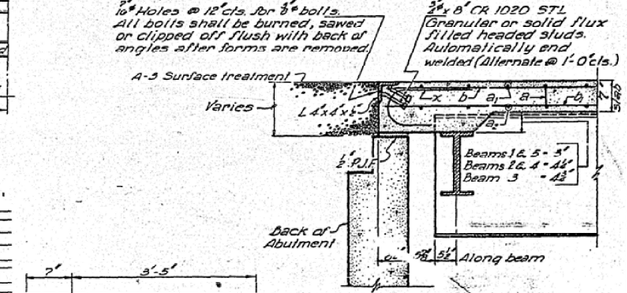
After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at the stations shown on sheet "9. These elevations, subtracted from the Theoretical Grade Elevations Adjusted for Dead Load Deflection shown on sheet "4, minus floor thickness, equals the fillet heights above top of beams.



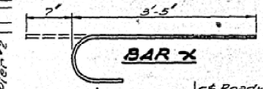
CROSS SECTION

DESIGNED	Ernest W. Roedl	
CHECKED	J. B. Rubin	J. Mullenix
DRAWN	E.B.	
CHECKED	J.B.R.	

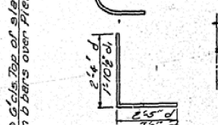
SEPT 14
EXAMINED H. G. Baumann, ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED E. J. Stuart, ENGINEER OF BRIDGES
APPROVED M. M. Bartholomew, CHIEF HIGHWAY ENGINEER



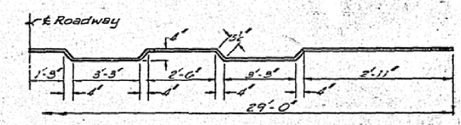
SECTION A 4



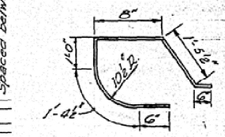
BAR x



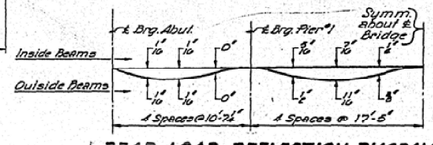
BAR d ℄ d1



BAR a



BAR s



DEAD LOAD DEFLECTION DIAGRAM

Note: Not for use if elevations adjusted for dead load deflection are used.

BILL OF MATERIAL

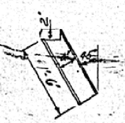
Bar	No.	Size	Length	Shape
a	189	#5	30'-0"	
a1	201	#5	29'-6"	
a2	201	#5	29'-0"	
b	140	#5	39'-9"	
b1	266	#5	33'-6"	
b2	40	#6	19'-0"	
b3	40	#6	26'-8"	
b4	40	#6	6'-0"	
b5	38	#6	22'-0"	
b6	76	#6	18'-6"	
b7	20	#6	9'-9"	
d	452	#6	1'-9"	
s	388	#4	5'-6"	
d1	452	#4	2'-6"	
x	72	#5	4'-0"	
Class X Concrete		Cu Yds	208.4	
Reinforcement Bars		Lbs	44,540	
Structural Steel		Lbs	169920	

*Weight of bolsters, rockers, bearing plates, lead plates and anchor bolts included as structural steel. Estimated weight = 6,460 lbs.
**Includes parapet quantities from sh. "4



FLOOR DRAIN
Cost incidental

For parapet reinf. See sh. "4.



SUPERSTRUCTURE
TR #83 (MATTIX ROAD) OVER F.A.I. RT. 57
F.A.I. ROUTE 57 SEC. 21-2B HB-1
DOUGLAS COUNTY
STATION 458 + 10.35

Revised 6/19/68 by J.B.M. -- O to O WT, increased from 29'-8" to 30'-0" -- Curb widths increased from 2'-10" to 3'-0" & heights lowered from 11" to 9" -- Parapets with reinf added. -- Size of bars b1 changed from #4 to #5 -- Class X Conc. increased from 188.5 to 208.4 C.Y. -- Reinf. bars increased from 36,080 to 44,540 lbs --

Revised 3/15/67 by H.W.L. -- Changed C & E Slab to 7" - increased deck length 4" - Class X Conc. increased from 208.4 to 219.5 C.Y. - Added Drain Detail. Structure Steel incr. from 169310 to 169920 lbs.

Revised 12/6/67 by H.W.L. -- New Curb, Changed Class X Conc. from 219.5 cu. yds. to 208.4 cu. yds., Reinf. Bars from 44540 lbs. to 47,230 lbs.

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USER NAME = Steven.Wood	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/12/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #4 S.N. 021-0045

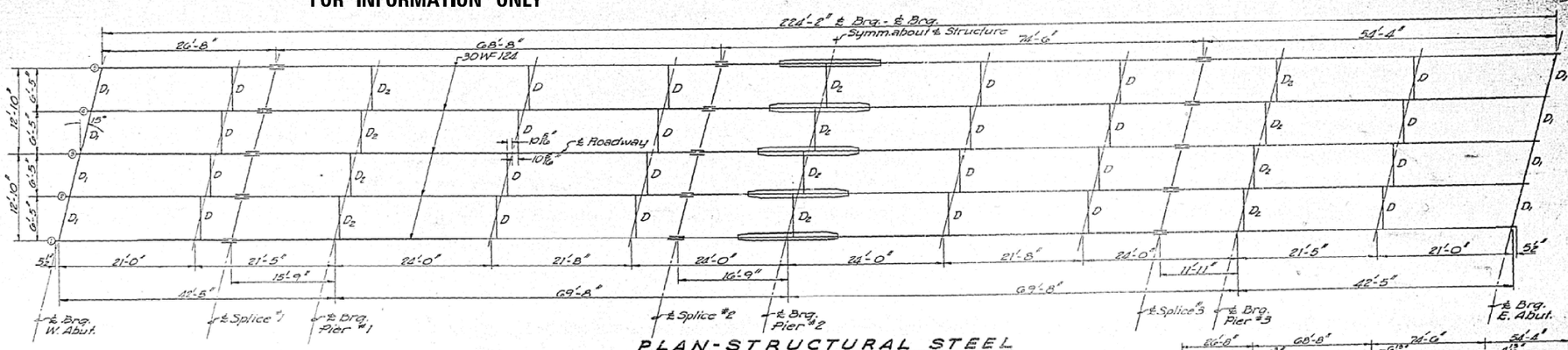
SCALE: NONE | SHEET 2 OF 3 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	27
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
		ILLINOIS FED. AID PROJECT		

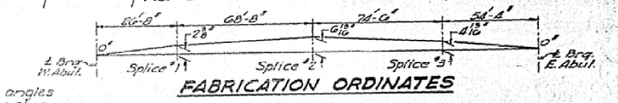
AS–BUILT PLANS FOR S.N. 021–0045
FOR INFORMATION ONLY

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

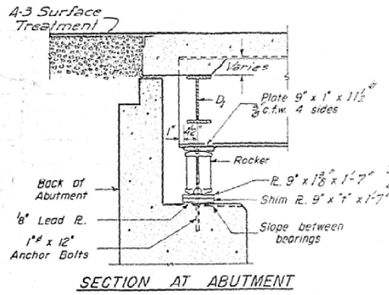
STATE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 57	21-27 HB-1	DOUGLAS	30	3
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		11 SHEETS



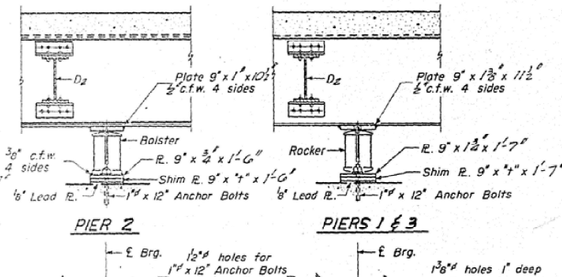
PLAN - STRUCTURAL STEEL



FABRICATION ORDINATES

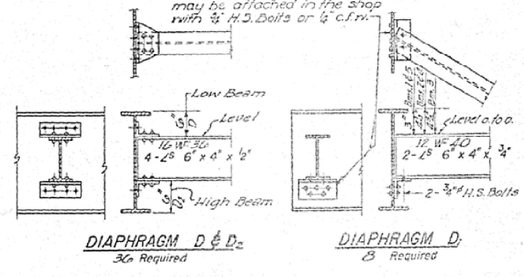


SECTION AT ABUTMENT



PIER 2

PIERS 1 & 3

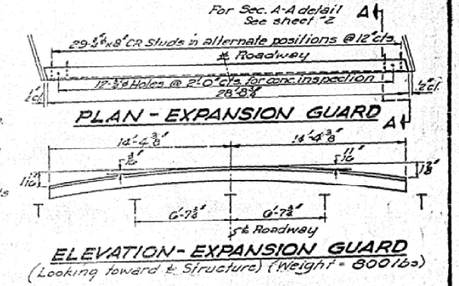


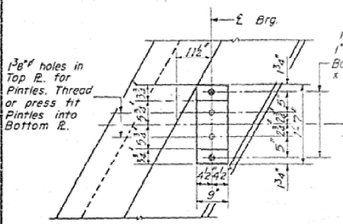
DIAPHRAGM D & D₂

36 Required

DIAPHRAGM D

8 Required





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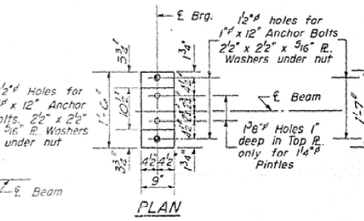

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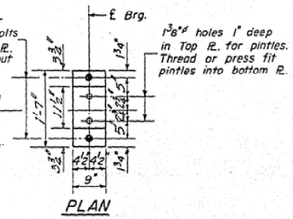

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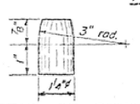
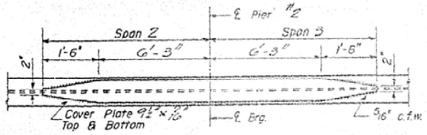
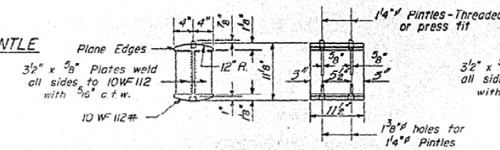


DETAIL OF PINTLE

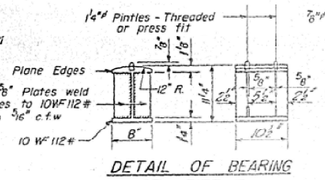


DETAIL OF COVER PLATES



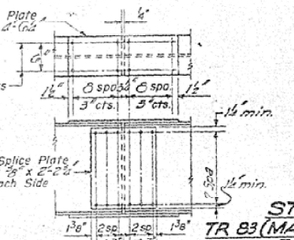
DETAIL OF BEARING AT PIERS 1 & 3 & ABUTS.

20 Required



DETAIL OF BEARING AT PIER 2

5 Required



DETAIL OF SPLICE

* ELEVATION - TOP OF BEAMS

Beam	1	2	3	4	5
W. Abutment	666.807	665.977	666.013	665.977	666.807
Splice #1	666.063	666.167	666.209	666.167	666.063
Pier #1	666.140	666.252	666.296	666.252	666.140
Splice #2	666.433	666.537	666.579	666.537	666.433
Pier #2	666.576	666.520	666.562	666.520	666.576
Splice #3	666.268	666.372	666.414	666.372	666.268
Pier #3	666.180	666.284	666.326	666.284	666.180
E. Abutment	665.807	665.977	666.013	665.977	665.807

TABLE OF "Y" DIMENSIONS

Beam	1	2	3	4	5
W. Abutment	0.0	0.0	½"	0.0	0.0
Pier #1	0.0	0.0	½"	0.0	0.0
Pier #2	0.0	0.0	½"	0.0	0.0
Pier #3	0.0	0.0	½"	0.0	0.0
E. Abutment	0.0	0.0	½"	0.0	0.0

* To obtain correct Top of Beam Elevations subtract .042' from values shown.

DESIGNED	Earl W. Boodt	SEPT. 14, 1961
CHECKED	B. K. L.	EXAMINED
DRAWN	E.B. W. A. Sausaman	PASSED
CHECKED	B. R.	APPROVED

I-2-L Re-drawn 9-21-59

Revised 3/15/67: Em. Elev. adjustment note added & Flange Splice R. lengthened. H.M.L.

STRUCTURAL STEEL
TR 83 (MATTIX ROAD) OVER F.A.I. RT. 57
F.A.I. RT. 57 SEC. 21-27HB-1
DOUGLAS COUNTY
STATION 438+10.35

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USER NAME = Steven.Wood	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -
PLOT DATE = 8/12/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #4 S.N. 021-0045

SCALE: NONE | SHEET 3 OF 3 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	28
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
	ILLINOIS	FED. AID PROJECT		

D.M.: "Cut in Top of E. end of S. Headwall of" Bridge C09.9 Rt.
Sta 582+59.68 (Elev 655.97)

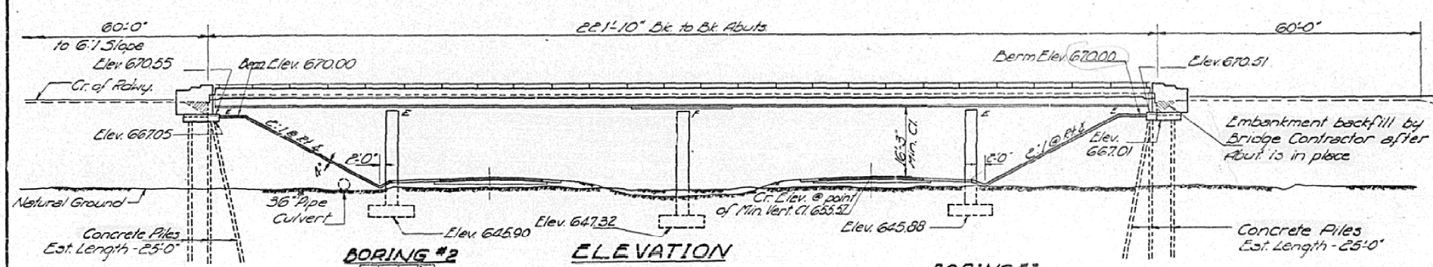
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 57	21-2BHB	DOUGLAS	32	8
FED. ROAD SYST. NO.	ILLINOIS	FED. AID PROJECT		

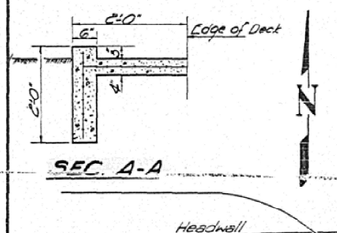
SHEET NO. 1
9 SHEETS

AS–BUILT PLANS FOR S.N. 021–0044

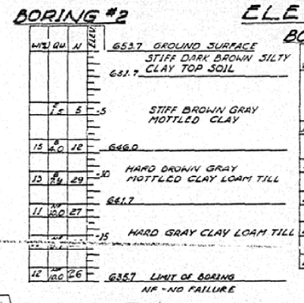
FOR INFORMATION ONLY

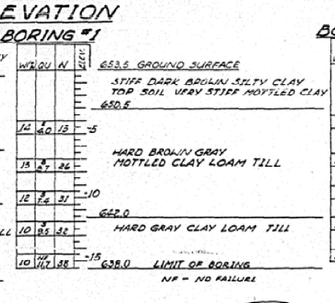


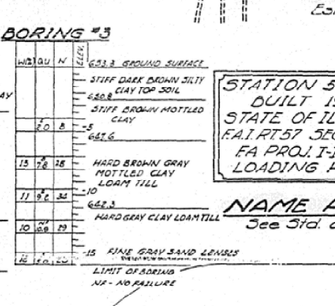
ELEVATION



SEC. A-A

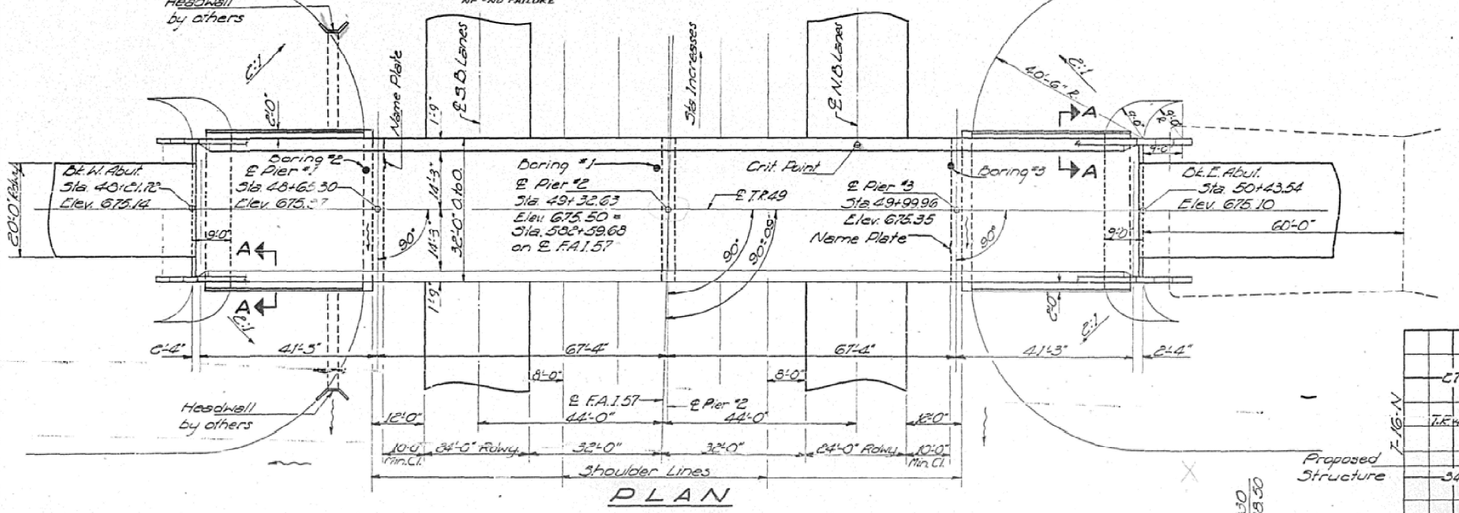






STATION 582+59.68
BUILT 1966 BY
STATE OF ILLINOIS
F.A.I. RT. 57 SEC. 21-2BHB
FA PROJ. I-IS-5(68)
LOADING H-S 15-44

NAME PLATE
See Std. 2113-1



PLAN

GENERAL NOTES

Coarse aggregate to be used in parapet handrails and end post must be absolutely free of chert, flint, limonite, lignite and soft sandstone.

The concrete floor slab shall be finished in accordance with Art. 511.19 of the Standard Specifications.

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

Rivets ⅞" ø, open holes 1 1/16" ø, unless otherwise noted.

Anchor bolts shall be set before riveting diaphragms over supports.

The exposed surfaces of the expansion guard shall be given two shop coats of red lead paint, the contact surfaces shall be given one coat of red lead paint. Anchor studs shall not be painted.

Expansion guards are included in the quantity of Structural Steel. Estimated weight 720 lbs.

Except as otherwise provided, all structural steel shall receive one shop coat of red lead paint and two field coats of paint. See Special Provisions for field paint.

The Contractor shall drive 2 concrete test piles in a permanent location, one each at the East and West Abuts. as directed by the Engineer before ordering the remainder of piles.

Concrete piles at abutments shall be driven in holes precored through the embankment in accordance with Art. 602.9(c) of the Standard Specifications.

All Structural Steel shall comply to the Specification for Structural Steel A.S.T.M. designation A-36.

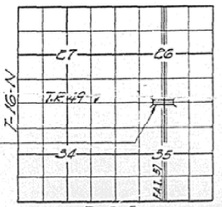
FIELD WELDING OF CONSTRUCTION ACCESSORIES TO THE BOTTOM FLANGES OR FOR A DISTANCE OF ½ OF THE SPAN EACH WAY FROM PIER SUPPORTS ON THE TOP FLANGES OF BEAMS OR GIRDERS WILL NOT BE PERMITTED. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.

'Excavation for portions of structures in the embankments shall not be classified.'

PERMANENT FORMS WILL NOT BE PERMITTED IN FORMING THE CONCRETE DECK.

TOTAL BILL OF MATERIAL

Item		Super.	Sub.	Total	
Class A Excav. for Struct.	Cu. Yds.		200	200	198
Class X Concrete	Cu. Yds.	202.2	196.1	398.3	
Structural Steel	Lbs.	162,180		162,180	161,669
Aluminum Handrail	Lin. Ft.	436		436	
Reinforcement Bars	Lbs.	48,680	17,610	66,290	
Concrete Piles	Lin. Ft.			400	409.8
Test Piles (Concrete)	Ea.			2	
Name Plates	Ea.			2	
Slope Wall	Sq. Yd.		364	364	
Protective Coat	Sq. Yd.	900		900	879



R-8-E
LOCATION PLAN

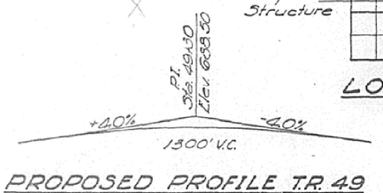
GENERAL PLAN & ELEVATION

F.A.I. 57 SEC. 21-2BHB
DOUGLAS COUNTY
STA. 49+32.63 ON T.R. 49
STA. 582+59.68 ON F.A.I. 57

DESIGNED	K.L. Figgi	JULY 29 1963	
CHECKED	DEsponda	EXAMINED	Y.G. Baumann, ENGINEER OF BRIDGES AND TRAFFIC STRUCTURES
DRAWN	K.L.F. A Barraza	PASSED	E. Pfannkuche, ENGINEER OF DESIGN
CHECKED	DEE	APPROVED	U.E. Dietz, CHIEF HIGHWAY ENGINEER

DESIGN STRESSES

f_c = 1400 psi Super & Sub.
v_c = 75 psi Footing
f_s = 20,000 psi. Reinf.
f_s = 20,000 psi. Struct. (A-36)
n = 10
LOADING: H-S 15-44



PROPOSED PROFILE T.R. 49

Rev. Cl. X Conc. Super from 211.2 to 202.2 Cu. Yds. Sub from 194.1 to 196.1 Cu. Yds. Total from 405.3 to 398.3 Cu. Yds.
Reinf. Super from 45,900# to 48,680# Sub from 17,450# to 17,610# Total from 63,350# to 66,290# 11-17-67 L.W.

Rev. by Br. GH. 9/10/24

USER NAME = Steven.Wood	DESIGNED -	REVISED -	**STATE OF ILLINOIS**	AS-BUILT PLANS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -	**DEPARTMENT OF TRANSPORTATION**	LOCATION #5 S.N. 021-0044	VAR.	D5 BRIDGE PAINTING 2025-1	*	66	29
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -				* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
PLOT DATE = 8/12/2024	DATE -	REVISED -		SCALE: NONE SHEET 1 OF 3 SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	

MODEL: $MODELNAME$
FILE NAME: pw:\\Bidder-pw.bentley.com:PWDOT\Documents\IDOT Offices\District 5\ORD Projects\D570913\CADData\CADSheets\D570913-Sht-As_Built.dgn

AS–BUILT PLANS FOR S.N. 021–0044

FOR INFORMATION ONLY

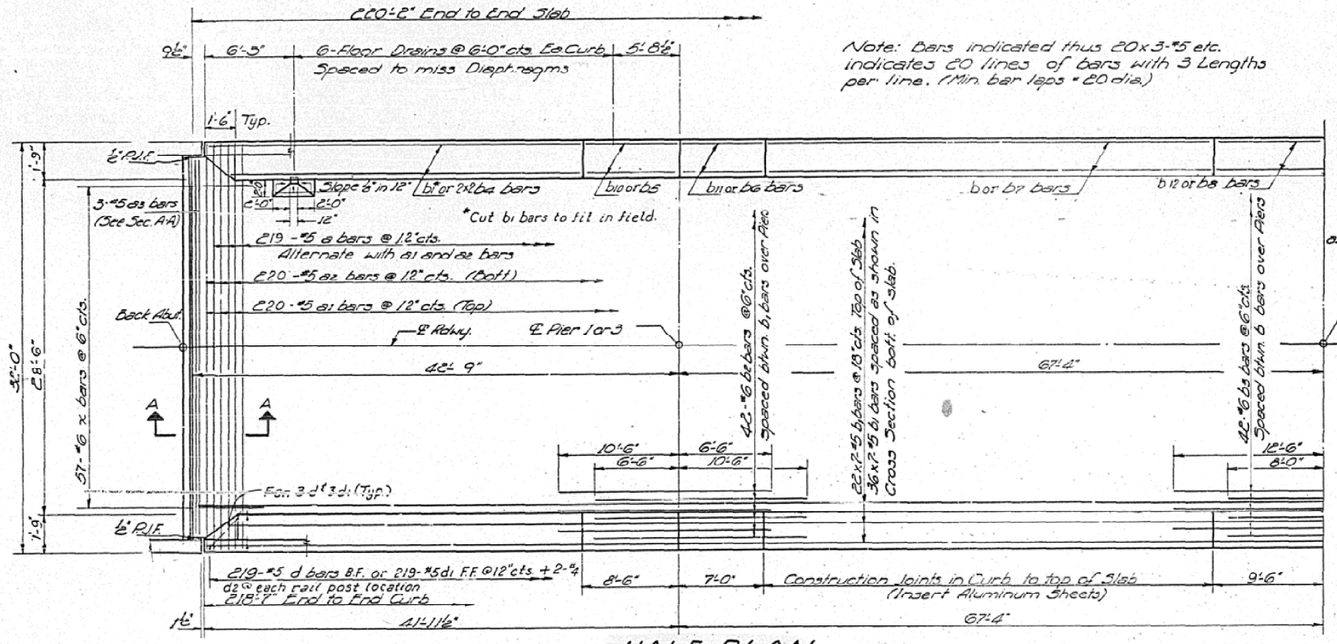
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 57	21-2B HB	DOUGLAS	32	9
PROJ. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

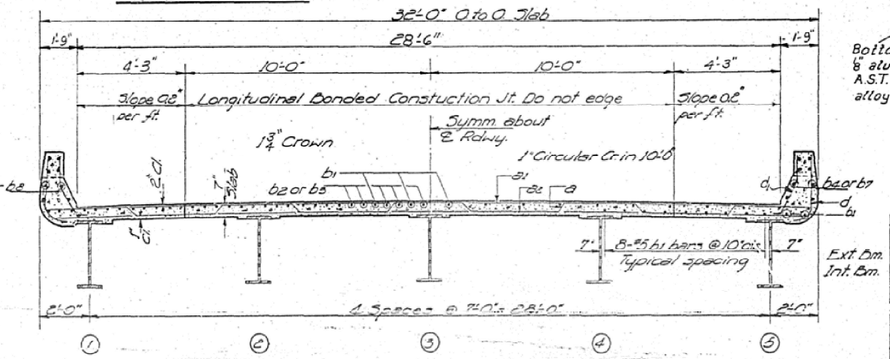
SHEET NO. 6
9 SHEETS

C20'-2" End to End Slab

Note: Bars indicated thus 20x3-#5 etc. indicates 20 lines of bars with 3 Lengths per line. (Min. bar laps = 20 dia.)

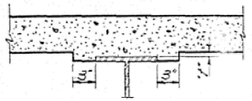


HALF PLAN



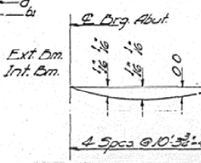
NEAR PIERS NEAR MIDSPAN

CROSS SECTION



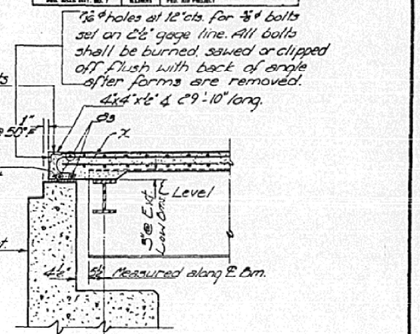
STANDARD FILLET DETAIL

To determine "f": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown on sheet #8. These elevations subtracted from the "Grade Elevations Adjusted for Dead Load Deflection" shown on Sheet #8 minus slab thickness, equals the fillet heights "f" above top of beams.

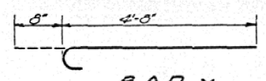


TYP DETAIL AT DRAIN

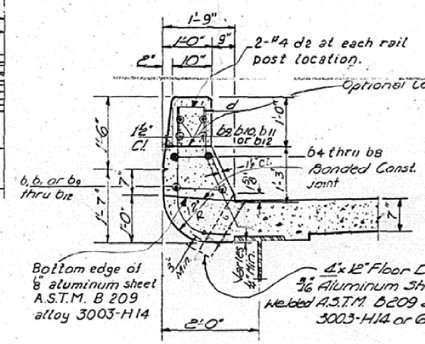
℄ Pier 2
Symm about this point through 180° rotation



SECTION A-A



BAR x



Note: All edges shall have standard ¾" chamfer. For details of parapet reinforcement see Sheet #7

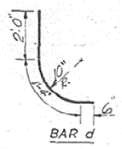
CURB DETAIL

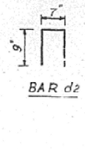
Cost of Aluminum Sheets and drains shall be incidental to Class X Concrete.

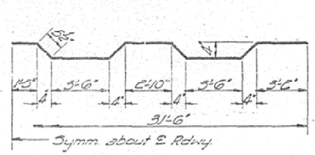
DEAD LOAD DEFLECTION DIAG.

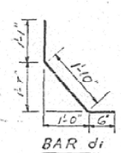
(Includes weight of Concrete only)

Note: The above Deflections are not to be used in the field if the Engineer is working from the "Grade Elev. Adjusted for D.L. Deflection" shown on sheet #8









BAR d

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	219	#5	32'-6"	
a1	220	#5	31'-6"	
a2	220	#5	31'-0"	
a3	6	#5	29'-8"	
b	116	#5	26'-0	
b1	414	#5	32'-9"	
b2	84	#6	11'-0"	
b3	42	#6	20'-6	
b4	16	#8	17'-6"	
b5	8	#8	8'-0"	
b6	8	#8	6'-6"	
b7	16	#8	27'-0"	
b8	8	#8	9'-0"	
b9	80	#5	16'-3"	
b10	24	#5	8'-0"	
b11	24	#5	6'-6"	
b12	24	#5	9'-0"	
d	438	#5	3'-10"	
d1	438	#5	3'-5"	
d2	104	#4	C'-1"	
x	114	#6	5'-4"	
Reinforcement Bars Lbs				48,680
Structural Steel * Lbs				162,180
Class X Concrete Cu Yds				202.2

* Weight of bearing assemblies with lead plates, and anchor bolts are included as structural steel. Est. Wt. = 1,000 #.

DESIGNED	K.L. Figgi	EXAMINED	JULY 29 1963
CHECKED	D.E. Johnson	PASSED	H.G. Baumann, ENGINEER OF BRIDGES AND TRAFFIC STRUCTURES
DRAWN	I.C.L. & A. Barraza	APPROVED	E.E. Hurst, ASSISTANT DIRECTOR OF DESIGN
CHECKED	D.E.J.		D.E. Staff, CHIEF HIGHWAY ENGINEER

11-14-67 JM1 Rev. class 'x' conc. from 211.2 to 202.2 cu. yds. & reinf. bars from 45,900 to 48,680 lbs.

SUPERSTRUCTURE
F.A.I. RT. 57 SEC. 21-28HB
DOUGLAS COUNTY
STA. 582+59.68

Rec. by R.I. Off. 3/10/58

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USER NAME = Steven.Wood	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/12/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #5 S.N. 021-0044

SCALE: NONE | SHEET 2 OF 3 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	30
	* DOUGLAS & VERMILION		CONTRACT NO. 70G13	
		ILLINOIS	FED. AID PROJECT	

AS–BUILT PLANS FOR S.N. 021–0044

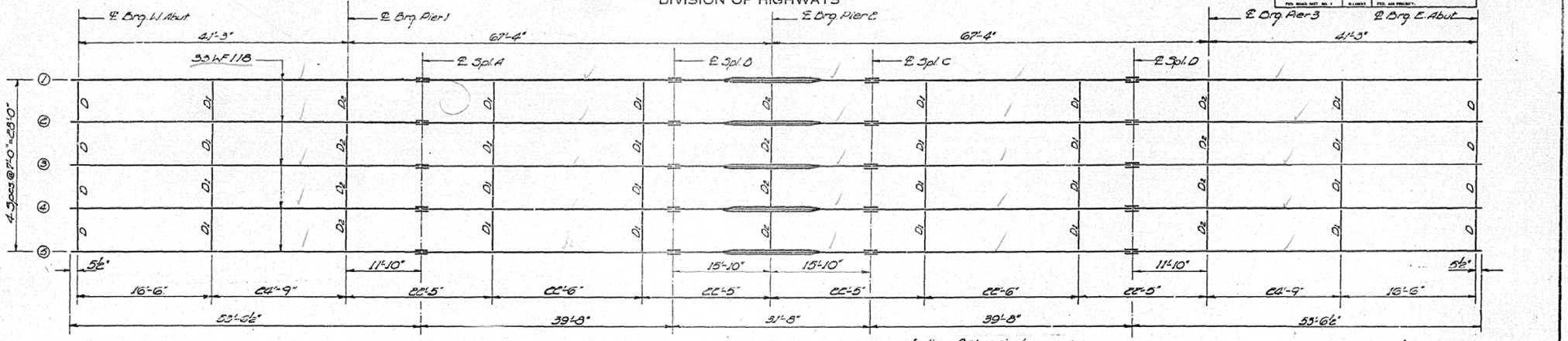
FOR INFORMATION ONLY

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

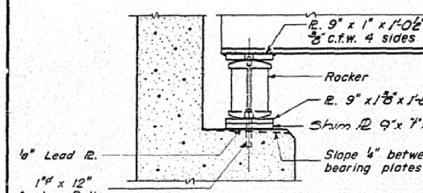
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 57	21-28HB	DOUGLAS	32	10

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT:

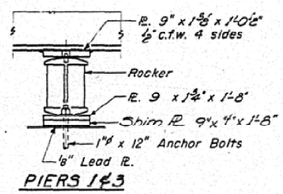
SHEET NO. 1 OF 9 SHEETS



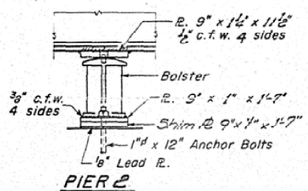
FRAMING PLAN



SECTION AT ABUTMENT



PIERS 1 & 3



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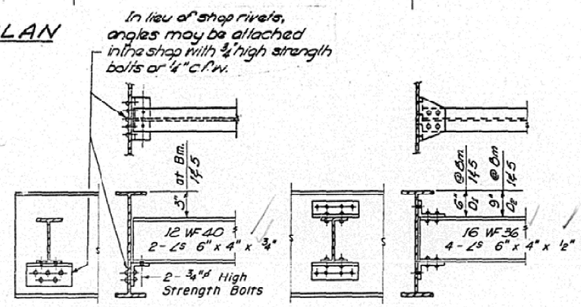
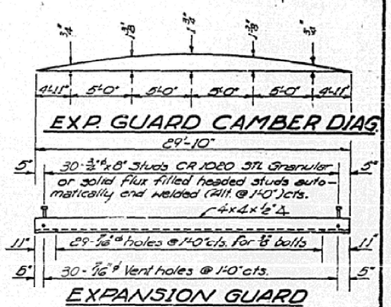


DIAPHRAGM D
8 Required

DIAPHRAGM D₁ & D₂
36 Required



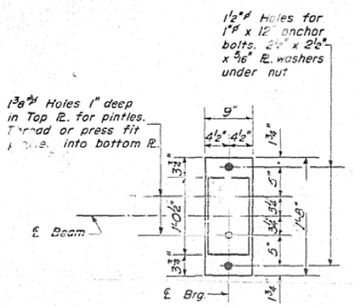
EXPANSION GUARD
(2 Required)

ELEVATION TOP OF WF

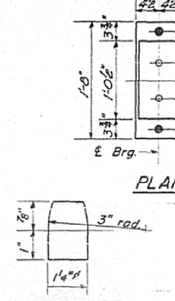
Loc. ℄ Bm.	1	2	3	4	5
℄ Brg. 1-1 Abut	674.420	674.530	674.571	674.530	674.420
℄ Brg. Pier 1	674.589	674.699	674.740	674.699	674.589
℄ Splice A	674.637	674.747	674.788	674.747	674.637
℄ Splice B	674.718	674.828	674.869	674.828	674.718
℄ Brg. Pier 2	674.715	674.825	674.866	674.825	674.715
℄ Splice C	674.713	674.823	674.864	674.823	674.713
℄ Splice D	674.620	674.729	674.770	674.729	674.620
℄ Brg. Pier 3	674.567	674.677	674.717	674.677	674.567
℄ Brg. E. Abut	674.385	674.495	674.535	674.495	674.385

TABLE OF "Y" DIMENSIONS

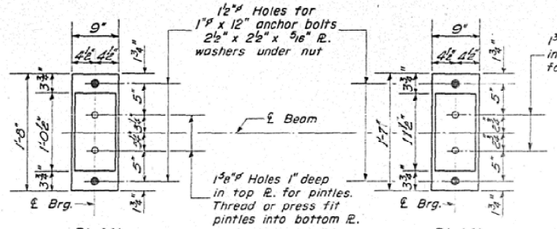
Bm.	Loc.	All Brgs.
1, 2, 4, 5		0
3		½"



PLAN



DETAIL OF PINTLE



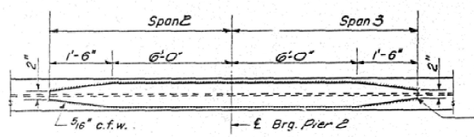
PLAN

PLAN

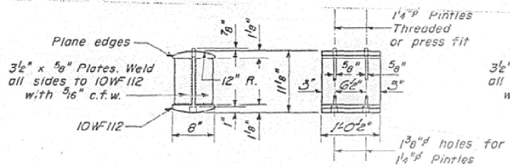
Bearings and Anchorage

The location of the anchor bolts and vertical alignment of the expansion bearings shall be adjusted to the temperature at the time of erection. See Art. 5A.9(1).

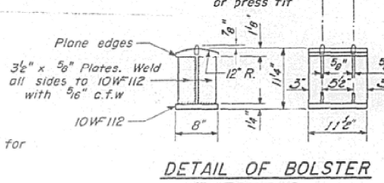
Anchor Bolts shall be grouted into drilled holes after bearings are in place, or bolts at fixed pier may be built into the masonry.



DETAIL OF COVER PLATE



DETAIL OF ROCKER AT ABUTS. & PIERS 1 & 3



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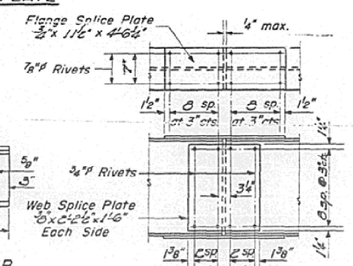

DETAIL OF SPLICE

DESIGNED	K.L. Figge
CHECKED	H.E. Bonnell
DRAWN	K.L.F. / W.A. Sausaman Jr. / A. Barraza
CHECKED	W.E.B.

EXAMINED W.E. Bauman — ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED E.A. Hurst — ENGINEER OF DESIGN
APPROVED U.E. Klaffs — CHIEF ENGINEER
JULY 29 1963

I-2-C 7-2-62

STRUCTURAL STEEL
F.A.I. RT. 57 SEC. 21-28HB
DOUGLAS COUNTY
STA. 582+59.68

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USER NAME = Steven.Wood	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -
PLOT DATE = 8/12/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #5 S.N. 021-0044

SCALE: NONE | SHEET 3 OF 3 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	31
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
		ILLINOIS FED. AID PROJECT		

AS–BUILT PLANS FOR S.N. 021–0043

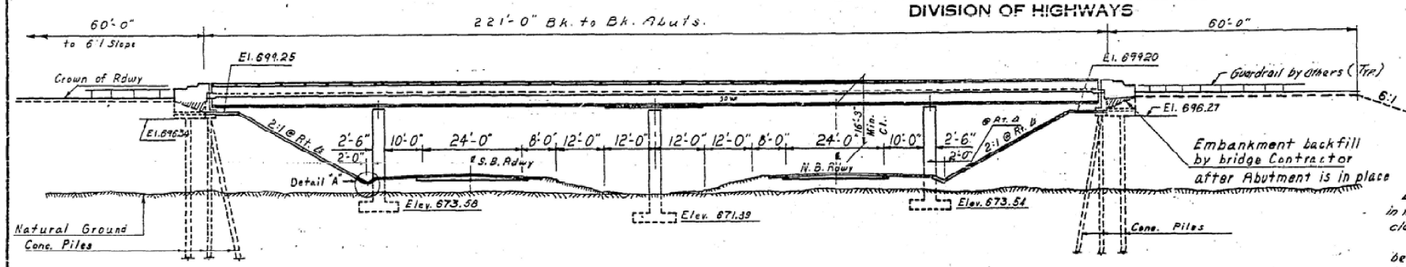
FOR INFORMATION ONLY

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 57	21-28 HB-1	DOUGLAS	29	7
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT: F.A.I. 57(68)214		

SHEET NO. 1
10 SHEETS

B.M.: N. I. B. C. in corner fence post 136' Rt. Sta. 687+91 (Elev. 685.25).



ELEVATION

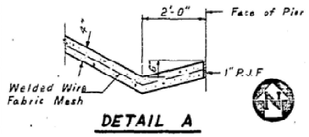
Excavation for portions of Struct. in the embankments shall not be classification.

Shot Shear connectors on the beam flanges shall be placed in the field after the steel has been erected and the deck forms are in place.

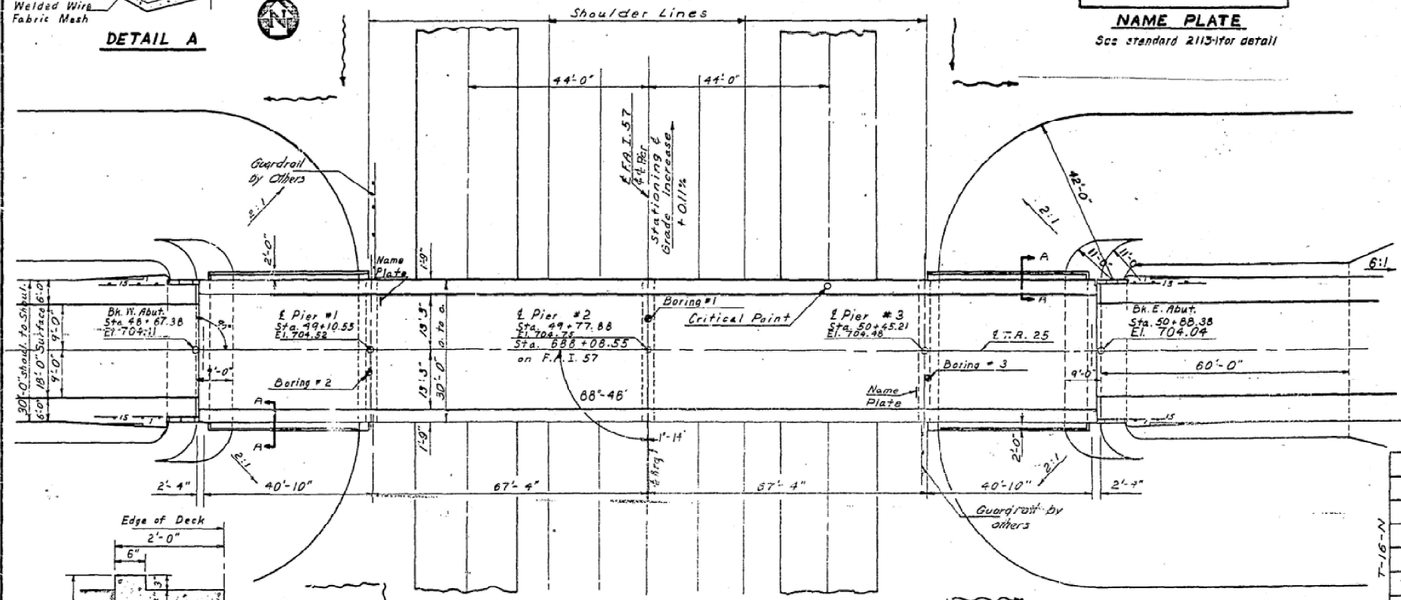
STATION 688+08.55
BUILT 19[illegible] BY
STATE OF ILLINOIS
F.A.I. RT 57 SEC. 21-28 HB-1
F.A. PROJ. NO. 57-5 (68)
LOADING HS15

NAME PLATE

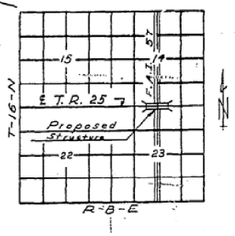
See standard 2113-1 for detail



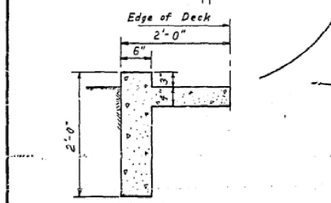
DETAIL A



PLAN



LOCATION SKETCH

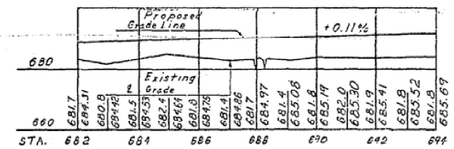


SECTION A-G

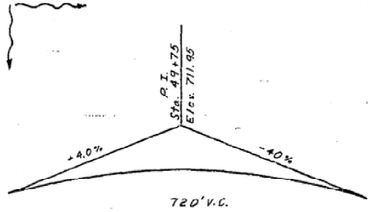
DESIGNED	Ulic Hoag	
CHECKED	R Pai	
DRAWN	P.G. Barnett	W.H.
CHECKED	R Pai	

FEB 6 1963

EXAMINED M.E. Bowman
PASSED
APPROVED F.E. Hoff
DIVISION OF HIGHWAYS AND STATE STRUCTURE ENGINEER
DEPUTY HIGHWAY ENGINEER



PROPOSED PROFILE F.A.I. 57



PROPOSED PROFILE T.R. 25

DESIGN STRESSES

f_c = 1400 psi. Super. & Sub.
V_c = 75 psi. Footing
f_s = 20,000 psi. Reinf.
f_s = 20,000 psi. Struct
Safe soil bearing 6.5 k.s.f. (P-2)
5.0 k.s.f. (P-13)
n=10

LOADING: HS15-44

GENERAL NOTES

Coarse aggregate to be used in parapet handrails and end posts must be absolutely free of chert, flint, limenite, lignite, and soft Sandstone.

The concrete floor slab shall be finished in accordance with Article 51.19 of the Standard Specifications.

SlopeWall shall be reinforced with welded wire fabric 6"x6" mesh, weighing 58# per 100 Sq. Ft.

All reinforcement bars shall be lapped 20 diameters unless otherwise shown.

Rivets ¾" ϕ, Open holes 15/16" ϕ, unless otherwise noted. Anchor bolts shall be set before pouring diaphrag over supports.

The exposed surfaces of the expansion guard shall be given two shop coats of red lead paint, the contact surface shall be given one coat of red lead paint. Anchor studs shall not be painted.

Expansion guards are included in the quantity of structural steel. Estimated weight 770 lbs.

All structural steel shall conform to ASTM A-36 specification.

Except as otherwise provided, all structural steel shall receive one shop coat of red lead paint and two field coats of paint. See Special Provisions.

The contractor shall drive one conc. test pile in a permanent location at W. Abut., as directed by the engineer, before ordering the remaining piles.

Concrete piles at abutments shall be driven in holes precored through the embankment in accordance with Article 60.9 (c) of the Standard Specifications.

Permanent form will not be permitted in forming the concrete floor.

FIELD WELDING OF CONSTRUCTION ACCESSORIES TO THE BOTTOM FLANGES OR FOR A DISTANCE OF ¼ OF THE SPAN EACH WAY FROM PIER SUPPORTS ON THE TOP FLANGES OF BEAMS OR GIRDERS WILL NOT BE PERMITTED. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.

BILL OF MATERIAL

ITEM	UNIT	SUR.	SUB.	TOTAL
Class A Excavation for Structure	Cu. Yds.		270	270
Class X Concrete	Cu. Yds.	199.6	222.0	421.6
Structural Steel	lbs.	139,250		139,250
Aluminum Handrail	lin. ft.	436		436
Reinforcement Bars	lbs.	41,490	17,090	58,580
Concrete Piles	Lin. Ft.		510	510
Test Piles (Conc.)	Each		1	1
Name Plates	Each		2	2
Slope Wall (9")	Sq. Yds.			360
Protective Coat	Sq. Yds.	860		860

Rev. W. H. 11-27-67 Cl. X Conc. changed from 422.1 Cu. Yds. to 421.6 Cu. Yds., Reinf. from 58,400 lbs. to 58,580 lbs.

GENERAL PLAN & ELEVATION
T.R. 25 OVER F.A.I. RT. 57
F.A.I. Rt. 57 SEC. 21-28-HB-1
DOUGLAS COUNTY
STA. 688 + 08.55

21-28-HB-1 NO. 4

MODEL: $MODELNAME$
FILE NAME: pw://illinoisdot.bentley.com:PWDOT/Documents/IDOT Offices/District 5/ORD Projects/D270G13/CADData/CADSheets/D570G13-SshtAs_Builts.dgn

USER NAME = Steven.Wood	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -
PLOT DATE = 8/12/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #6 S.N. 021-0043

SCALE: NONE | SHEET 1 OF 3 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	32
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
	ILLINOIS FED. AID PROJECT			

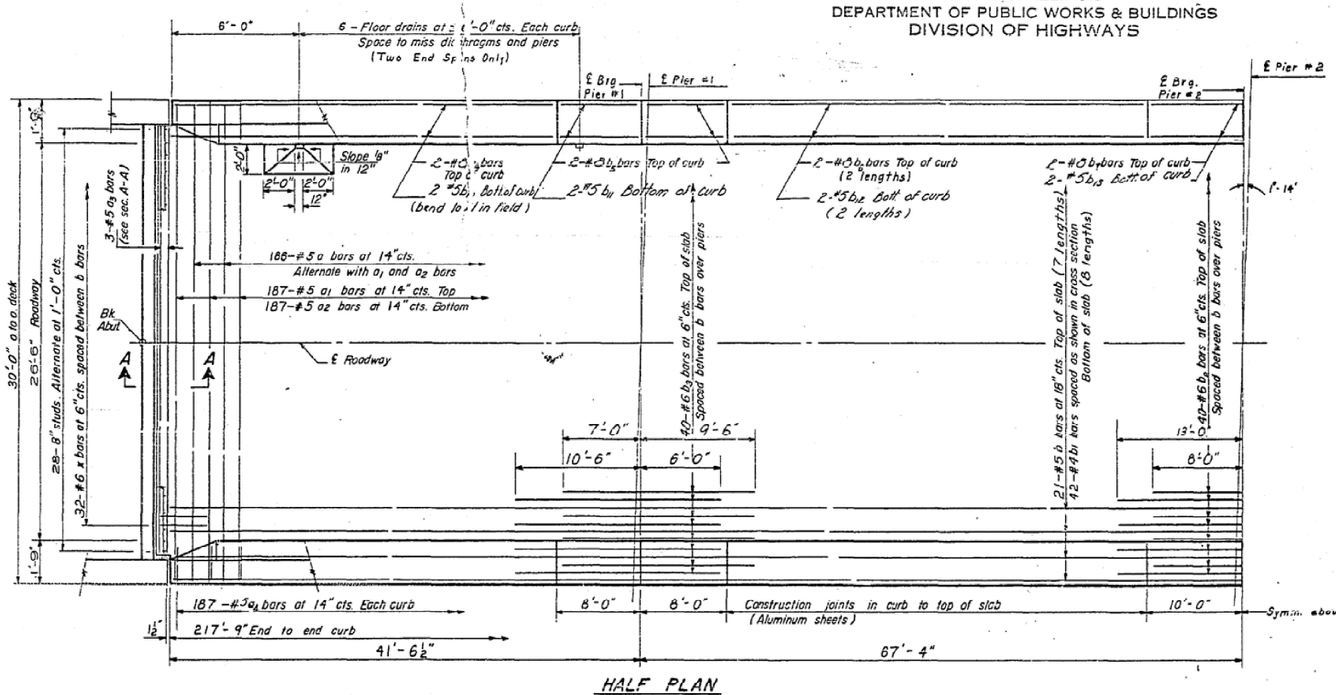
AS–BUILT PLANS FOR S.N. 021–0043

FOR INFORMATION ONLY

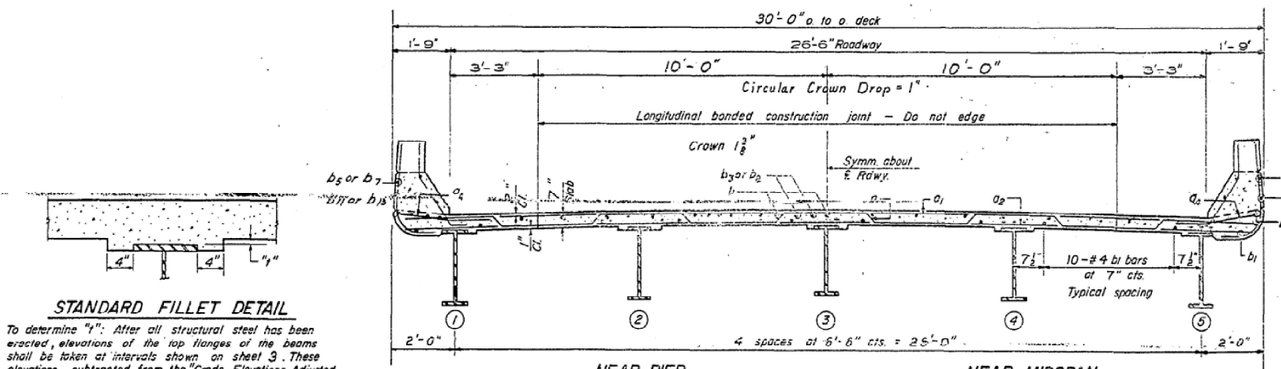
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 57	21-28 HB-1	DOUGLAS	29	10

SHEET NO. 4
10 SHEETS



HALF PLAN



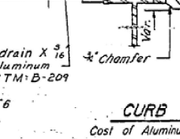
NEAR PIER

NEAR MIDSPAN

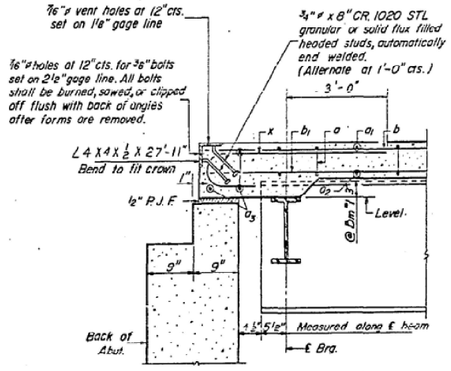
CROSS SECTION

STANDARD FILLET DETAIL

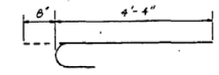
To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown on sheet 3. These elevations subtracted from the "Grade Elevations Adjusted for Dead Load Deflections" shown on sheet 3, minus slab thickness, equals the fillet heights "t" above top of beams.



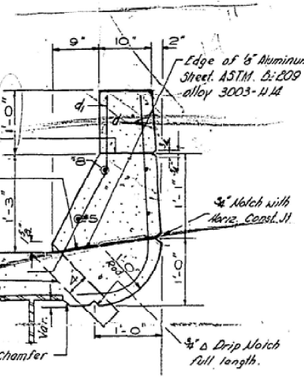
DETAIL OF DRAIN



SECTION A–A



BAR x



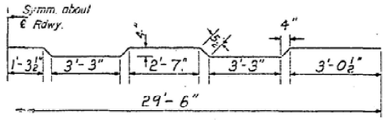
CURB DETAIL

Cost of Aluminum Sheets shall be incidental to Class X Concrete. bars d f d, sec Sh. #6

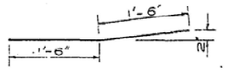
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	186	#5	30'-6"	
a_1	187	#5	29'-6"	
a_2	187	#5	29'-0"	
a_3	6	#5	23'-6"	
a_4	374	#3	3'-0"	
b	147	#5	32'-6"	
b_1	336	#4	28'-6"	
b_2	40	#6	21'-0"	
b_3	80	#6	16'-6"	
b_4	8	#6	33'-3"	
b_5	16	#8	7'-9"	
b_6	16	#6	25'-6"	
b_7	8	#8	9'-9"	
b_{10}	8	#5	33'-5"	
b_{11}	16	#5	7'-9"	
b_{12}	16	#5	25'-9"	
x	61	#6	5'-0"	
b_{13}	8	#5	9'-9"	
Reinforcement Bars			Lbs.	37,000
* Structural Steel			Lbs.	139,950
Class X Concrete			Cu. Yd.	199.6

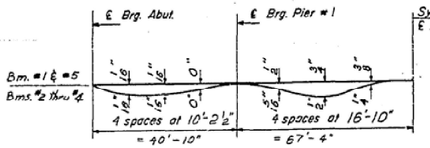
* Weight of bearing assemblies with lead plates, and anchor bolts are included as structural steel.. Est. Wt. = 6340 lbs.



BAR b_1



BAR a_4



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only)
Note: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheet 3.

SUPERSTRUCTURE

F.A.I. RT. 57 SEC. 21-28-HB-1
DOUGLAS COUNTY
STA. 688+08.55

DESIGNED	Wei Hsiang		
CHECKED	R. Pai		
DRAWN	W. H. / D.L. Williams S. / D.L. Beemer		
CHECKED	R. Pai		

FEB 6 1963

EXAMINED	M. G. Baumann	ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED		ENGINEER OF BRIDGES
APPROVED		CHIEF HIGHWAY ENGINEER

I-5-0

Rev 11-8-67. Reinf Bars from 36,760 lb to 37,000 lbs / Class X Conc from 182.2 cu yds. to 199.6 / Curb changed

Rev. By Bri. Off. 4/18/68

MODEL: $MODELNAMES
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USER NAME = Steven.Wood	DESIGNED -	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	AS-BUILT PLANS LOCATION #6 S.N. 021-0043	
	DRAWN -	REVISED -			
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -			
PLOT DATE = 8/12/2024	DATE -	REVISED -		SCALE: NONE | SHEET 2 OF 3 SHEETS | STA. | TO STA.	

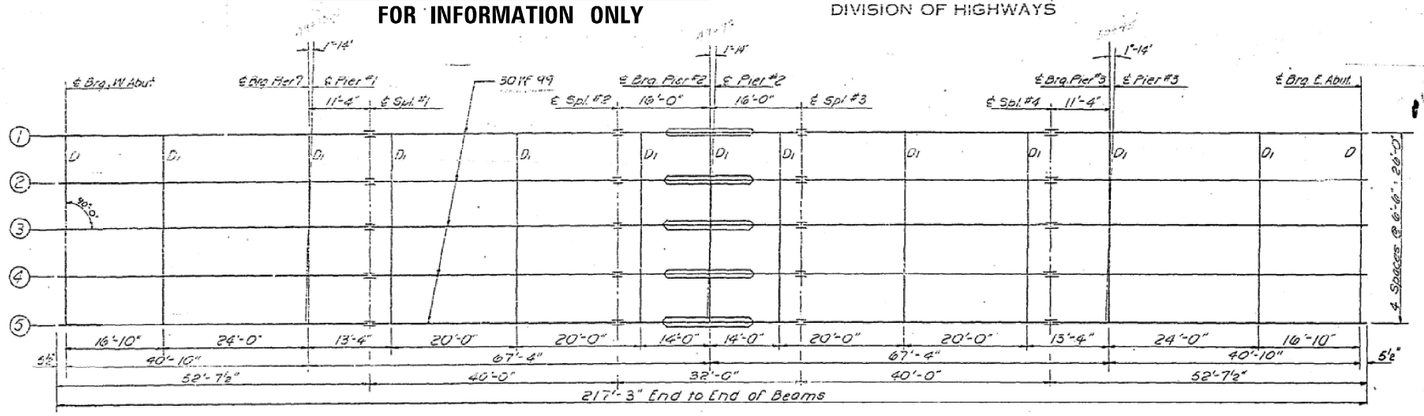
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	33
	* DOUGLAS & VERMILION		CONTRACT NO. 70G13	
		ILLINOIS | FED. AID PROJECT		

AS–BUILT PLANS FOR S.N. 021–0043
FOR INFORMATION ONLY

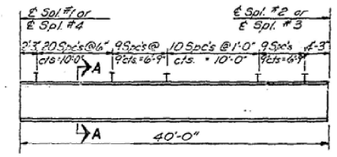
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	DETAIL SHEETS	SHEET NO.
I.R.S. I-57	21-2B HB-1	DOUGLAS	29	11
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

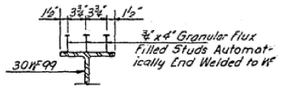
SHEET NO. 5
10 SHEETS



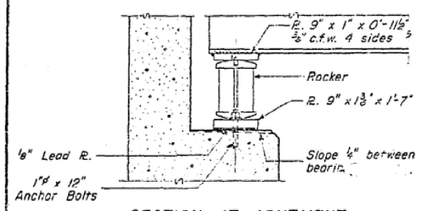
FRAMING PLAN



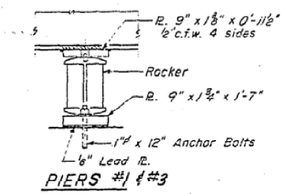
ELEVATION
Showing Spacing for Shear Connector



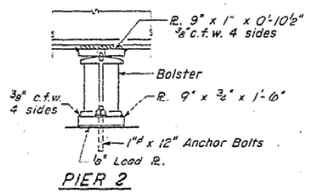
SECTION A-A
Quantity of studs included in Structural Steel. Est. Wt. = 900#



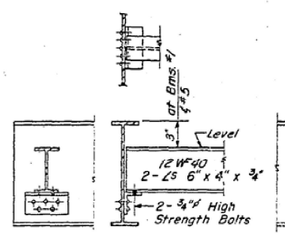
SECTION AT ABUTMENT



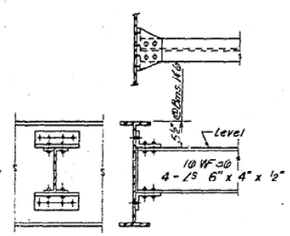
PIERS #1 & #3



PIER 2



DIAPHRAGM D
8 Required



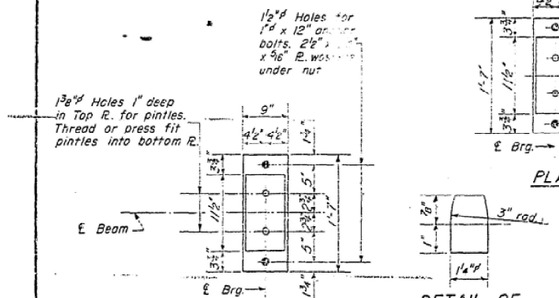
DIAPHRAGM D1
44 Required

* ELEVATION TOP OF WF

Beams	℄ Brg W. Abut.	℄ Brg Pier #1	℄ Splice #1	℄ Splice #2	℄ Brg Pier #2	℄ Splice #3	℄ Splice #4
#1 & #5	703.48	703.79	703.88	704.02	704.02	704.02	703.85
#2 & #4	703.57	703.88	703.97	704.11	704.11	704.11	703.94
#3	703.60	703.91	704.00	704.14	704.14	704.14	703.97

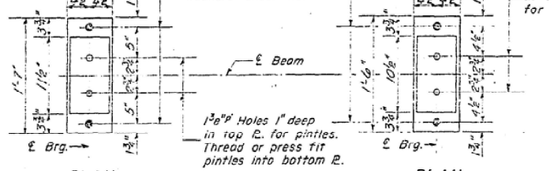
Beams	℄ Brg Pier #3	℄ Brg E. Abut.
#1 & #5	703.75	703.41
#2 & #4	703.84	703.50
#3	703.87	703.53

*Corrected elevations are 0.04' lower than the values given in the table.

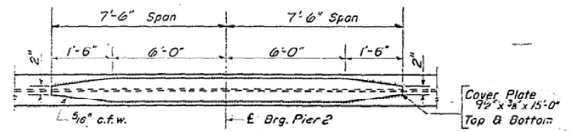


PLAN

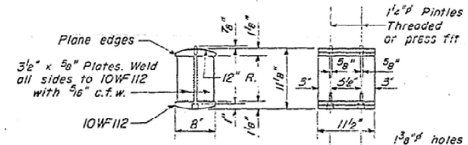
DETAIL OF PINTLE



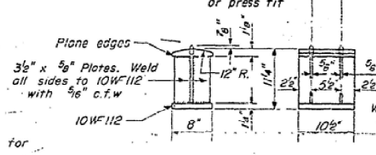
PLAN



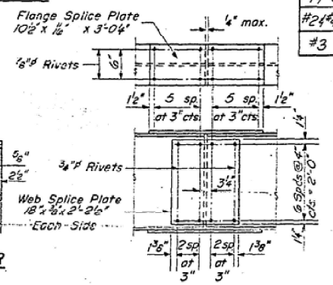
DETAIL OF COVER PLATE



DETAIL OF ROCKER AT ABUTS, PIERS #1 & #3



DETAIL OF BOLSTER AT PIER 2



DETAIL OF SPLICE

DESIGNED	Alex Hainey
CHECKED	R. Pai
W. H. DRAWN	N. R. Deason W. A. Sousoman Jr.
CHECKED	R. Pai

FEB 6 1963
EXAMINED N. G. Bauman, ENGINEER OF BRIDGES AND TRAFFIC STRUCTURES
PASSED, ENGINEER OF DESIGN
APPROVED V. C. Oberg, DIRECTOR OF HIGHWAYS

I-2-C 7-2-62

Rev. W. H. 11-27-67 Elev. Top of WF.

STRUCTURAL STEEL
F.A.I.RT. 57 SEC. 21-28HB-1
DOUGLAS COUNTY
STA. 688 + 08.55

USER NAME = Steven.Wood	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -
PLOT DATE = 8/12/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #6 S.N. 021-0043

SCALE: NONE | SHEET 3 OF 3 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	34
	* DOUGLAS & VERMILION		CONTRACT NO. 70G13	
		ILLINOIS	FED. AID PROJECT	

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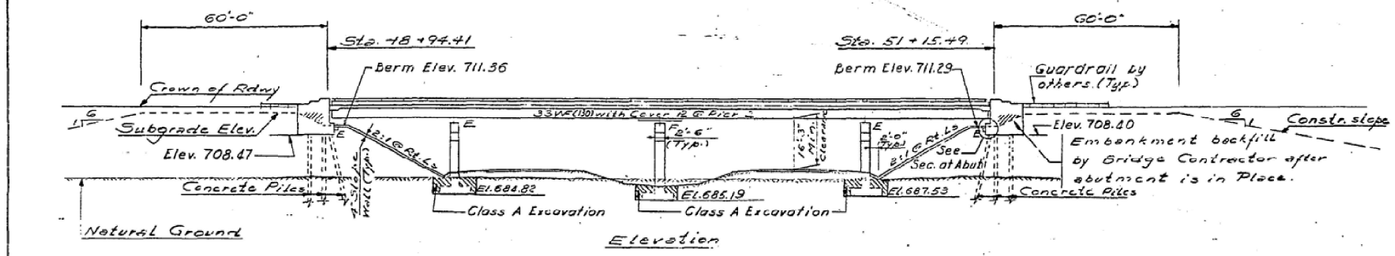
AS–BUILT PLANS FOR S.N. 021–0034
FOR INFORMATION ONLY

B.M.: Nail and Bottle Cap in Root North side 20" Elm, 45.9' Rt. Sta. 47+72.8 (Elev. 694.79)

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

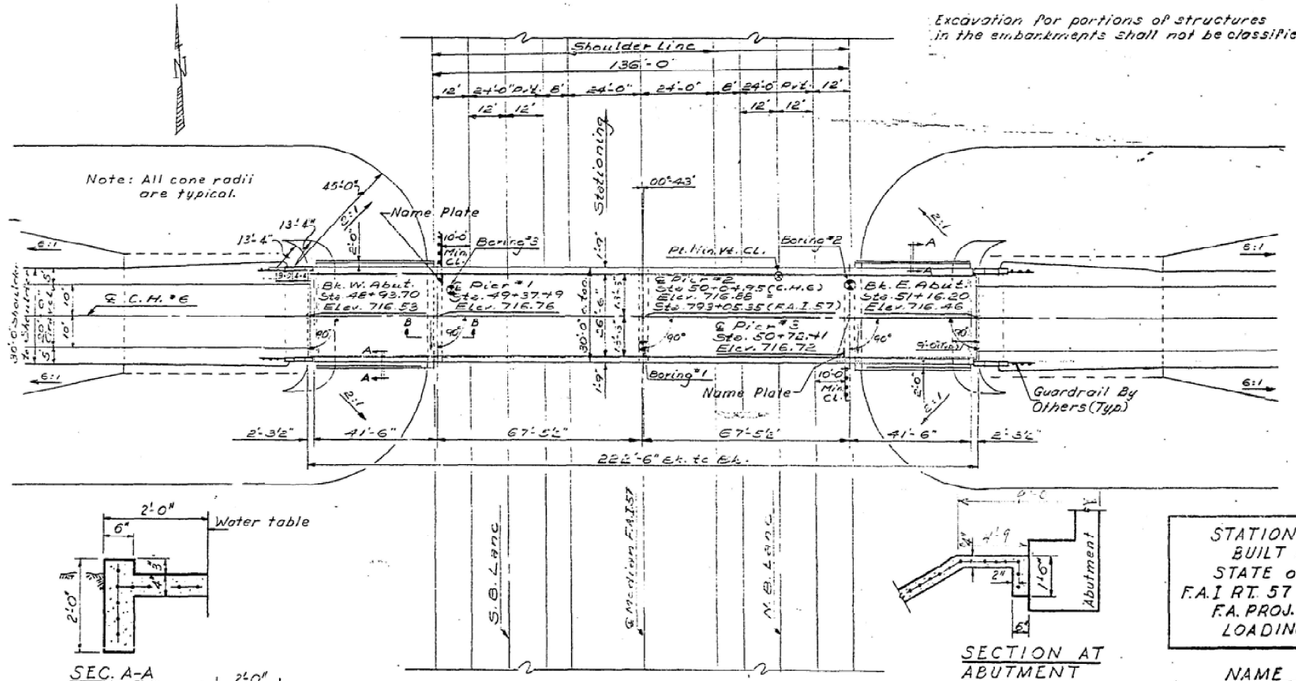
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. R.T. 57	21-29 HB	DOUGLAS	38	11
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 1
10 SHEETS



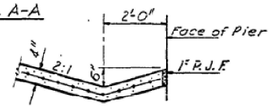
Elevation

Excavation for portions of structures in the embankments shall not be classified.



Plan

SEC. A-A

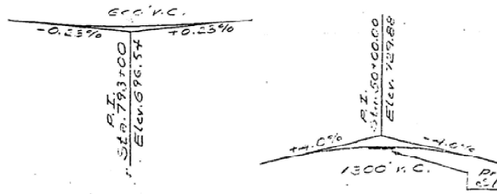


SEC. B-B

SECTION AT ABUTMENT

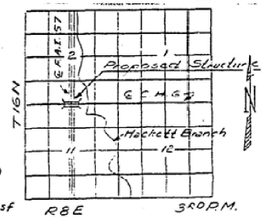
STATION 793+05.35
BUILT 196 BY
STATE of ILLINOIS
F.A.I RT. 57 SEC. 21,10-29HB
F.A. PROJ. I-26-57-5(68)
LOADING HS 15

NAME PLATE
(See Std. 2118-1)



Profile F.A.I. Rt. 57 Proposed Profile C.H. 6

Design Stresses
f_c = 1400 psi Super & Sub
V_c = 75 psi Footing
f_s = 20000 psi Reinf
f_s = 20000 psi Struct. (A-36)
n = 10
Max footing pressure: Pier 1 = 4.98 ksf
Pier 2 = 6.34 ksf, Pier 3 = 4.66 ksf
Loading: HS 15-44



Location Sketch

GENERAL NOTES

Coarse aggregate to be used in parapet handrails and end posts must be free of chert, flint, limonite, lignite and soft sandstone.

The concrete floor slab shall be finished in accordance with Art. 51.19 of Standard Specifications.

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

All reinforcement bars shall be lapped 20 dia. unless otherwise shown.

All structural steel shall conform to A.S.T.M. Designation A-36.

Rivets ¾" ϕ, Open Holes 13/16" ϕ, unless otherwise noted.

Anchor bolts shall be set before fastening diaphragms over supports.

Exposed surfaces of the expansion devices, inaccessible after erection, shall receive two shop coats of red lead paint. All other surfaces shall be given one shop coat of red lead paint. Anchor studs shall not be painted.

Expansion devices are included in the quantity of structural steel. Est. weight = 775 LBS.

Except as otherwise provided, all structural steel shall receive one shop coat of red lead paint and two field coats of paint. See Special provisions for field paint.

Concrete piles at abutments shall be driven in holes precored thru the embankment in accordance with Art. 60.9 (c) of the Standard Specifications.

The contractor shall drive one concrete test pile at the West Abutment, in a permanent location, as directed by the Engineer before ordering the remainder of piles.

Permanent forms will not be permitted in forming the concrete floor.

FIELD WELDING OF CONSTRUCTION ACCESSORIES TO THE BOTTOM FLANGES OR FOR A DISTANCE OF ¼ OF THE SPAN EACH WAY FROM PIER SUPPORTS ON THE TOP FLANGES OF BEAMS OR GIRDERS WILL NOT BE PERMITTED. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Class A Excav. For Structures	Cu. Yds.			250
Class X Concrete	Cu. Yds.	192.4	217.2	409.6
Protective Coat	Sq. Yds.	850		850
Structural Steel	Lbs.	139,790		139,790
Aluminum Handrail	Lin. Ft.	439		439
Reinforcement Bars	Lbs.	48,620	17,160	65,780
Concrete Piles	Lin. Ft.		476	476
Test Piles (Concrete)	Ea.		1	1
Name Plates	Ea.		2	2
Slope Wall (4")	Sq. Yds.			360

245
409.0
217.2
139,939
511.3

DESIGNED	Leon McConnell	EXAMINED	Sept. 27 1965
CHECKED	John Hayes	P.-SSED	
DRAWN	J. Kessler	APPROVED	
CHECKED	John Hayes		

Rev. 11-28-67 E.R.M. Added Guardrail, Changed quantity of Class X Conc. from 600.3 Cu. Yds. to 609.6 Cu. Yds. Reinforcement Bars changed from 65,300 Lbs to 65,780 Lbs. Structural Steel changed from 139,750 Lbs to 139,790 Lbs. Lowered Substructure 2.04 F.t.

GENERAL PLAN & ELEVATION

C.H.6 OVER F.A.I. RT. 57
F.A.I. RT. 57 SEC. 21-29 HB
DOUGLAS COUNTY
STATION 793+05.35 (F.A.I. 57)

21-29 HB

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USER NAME = Steven.Wood	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	AS-BUILT PLANS LOCATION #7 S.N. 021-0034	
	DRAWN -	REVISED -			
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -			
PLOT DATE = 8/12/2024	DATE -	REVISED -		SCALE: NONE	SHEET 1 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	35
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
	ILLINOIS	FED. AID PROJECT		

AS-BUILT PLANS FOR S.N. 021-0034

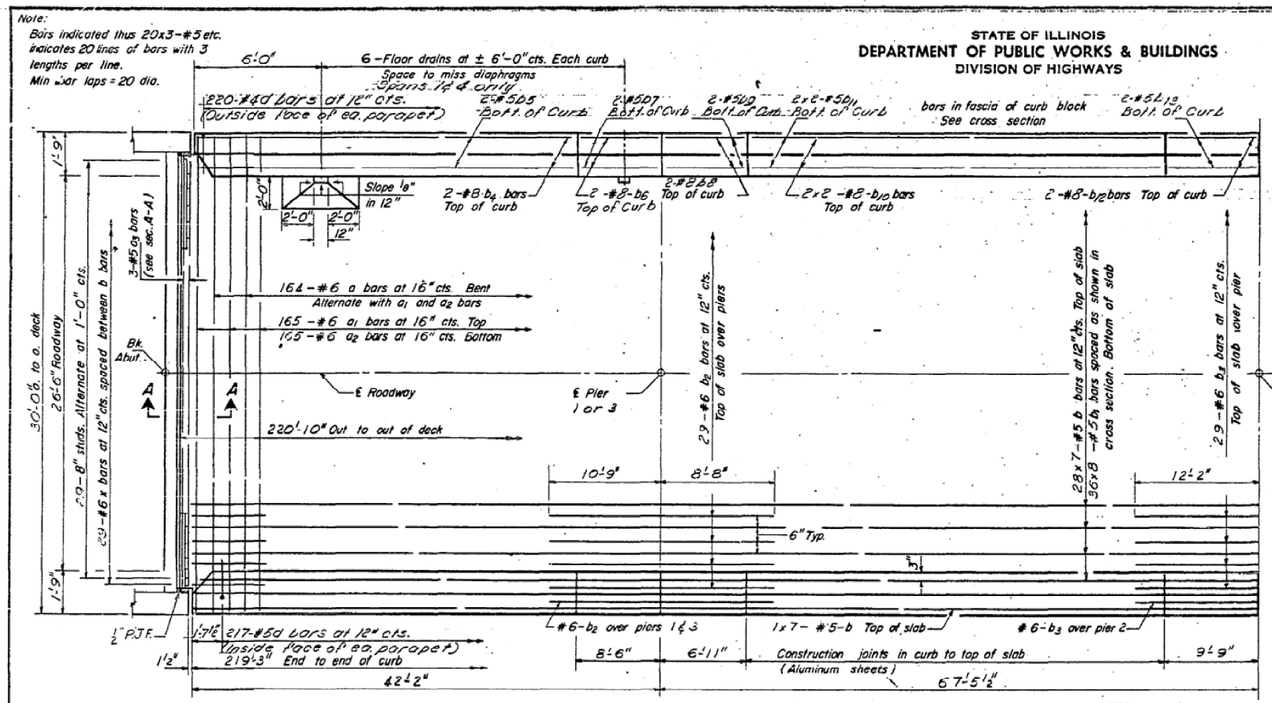
FOR INFORMATION ONLY

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

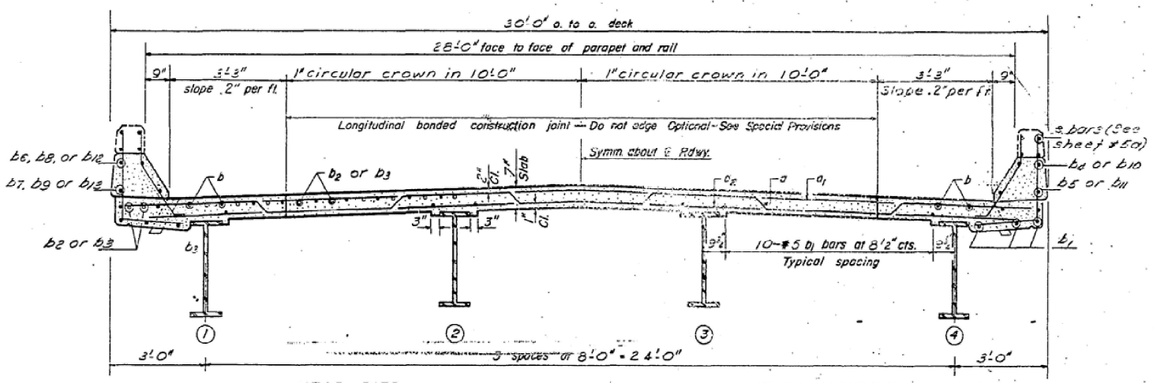
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 57	21-2HB	DOUGLAS	38	13
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 3
10 SHEETS

Note:
Bars indicated thus 20x3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
Min. bar laps = 20 dia.

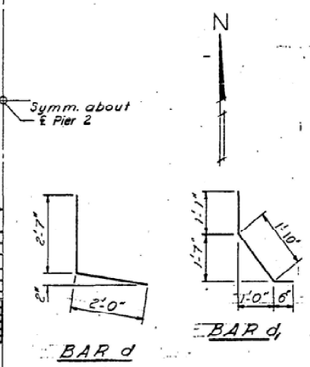


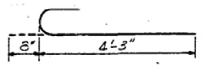
HALF PLAN



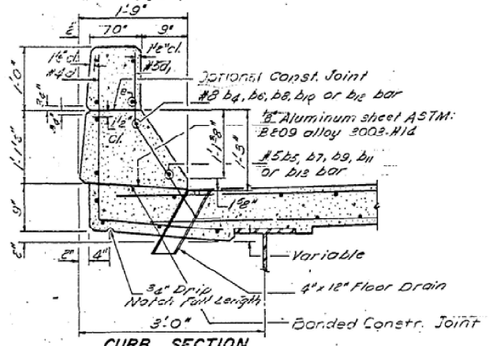
NEAR PIER — NEAR MIDSPAN

CROSS SECTION
LOOKING EAST



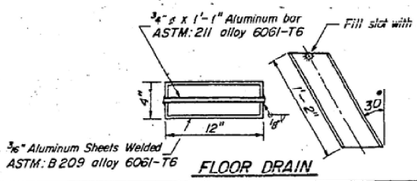


BAR x

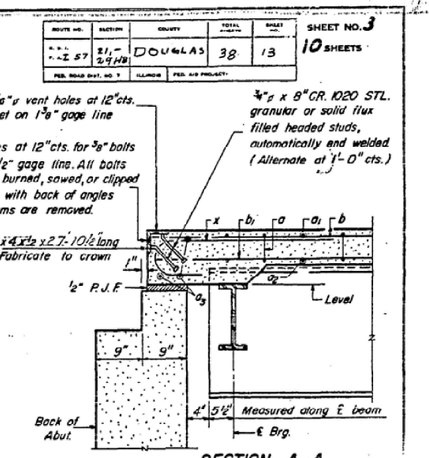


CURB SECTION

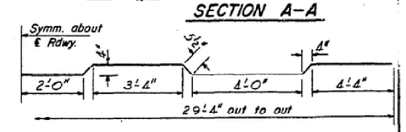
Cost of Aluminum Drains and Sheets shall be incidental to Class X Concrete



FLOOR DRAIN



SECTION A-A



BAR a

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	164	#6	30'-1"	
a1	165	#6	29'-4"	
a2	165	#6	29'-0"	
a3	6	#5	27'-8"	
b	210	#5	32'-8"	
b1	288	#5	28'-9"	
b2	62	#6	19'-5"	
b3	31	#6	24'-4"	
b4	8	#8	33'-5"	
b5	8	#5	33'-5"	
b6	8	#8	6'-3"	
b7	8	#5	6'-3"	
b8	8	#6	6'-5"	
b9	8	#5	6'-5"	
b10	16	#8	25'-9"	
b11	16	#5	25'-9"	
b12	8	#8	9'-6"	
b13	8	#5	9'-6"	
d	440	#4	4'-7"	
d1	434	#5	3'-5"	
X	58	#6	4'-11"	
* Structural Steel		Lbs.	139 790	
Class X Concrete		Cu. Yd.	178.2	
Reinforcement Bars		Lbs.	47 340	

* Weight of bearing assemblies with lead plates and anchor bolts are included as structural steel.
Est. Wt. = 5500 Lbs.

The lengths and quantities of longitudinal reinforcement and Class X Concrete in parapets are not included in above quantities. See sheet 5

DESIGNED	H. M. Caswell	
CHECKED	John Hayes	
DRAWN	J. Kessler, D.L. Beemer	
CHECKED	John Hayes	
EXAMINED	Geo. F. Thomas	SEPT. 27 1965
PASSED	H. J. Petru	
APPROVED	W. E. Stahl	

I-4-0 8-1-65

Rev. by Br. Off. 3/14/64

SUPERSTRUCTURE
F.A.I. RT. 57 SEC. 21-29HB
DOUGLAS COUNTY
STATION 793+05.35 (F.A.I. 57)

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USER NAME = Steven.Wood	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -	
PLOT DATE = 8/12/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #7 S.N. 021-0034

SCALE: NONE | SHEET 2 OF 3 SHEETS | STA. | TO STA.

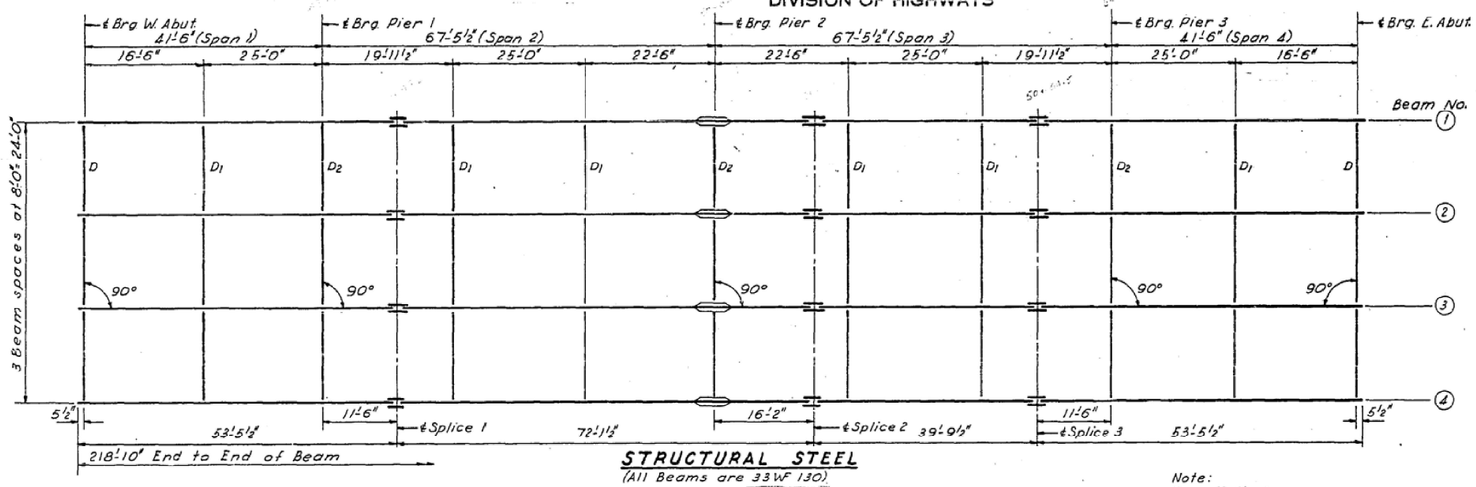
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	36
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
	ILLINOIS FED. AID PROJECT			

AS–BUILT PLANS FOR S.N. 021–0034
FOR INFORMATION ONLY

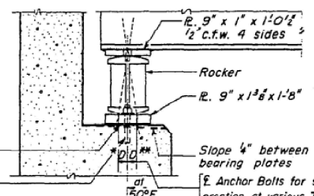
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 57	21–E4HB	DOUGLAS	38	14
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

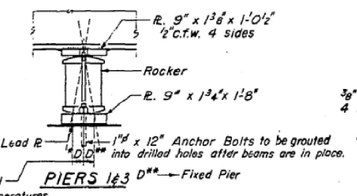
SHEET NO. 4
10 SHEETS



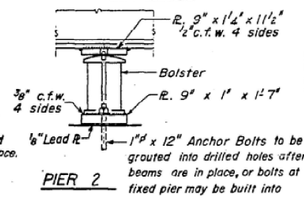
STRUCTURAL STEEL
(All Beams are 33WF 130)



SECTION AT ABUTMENTS

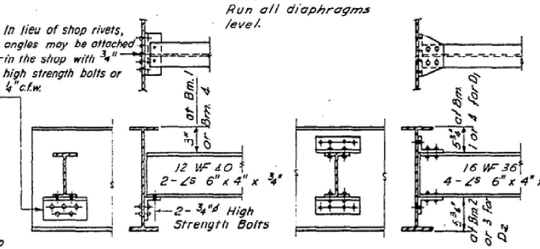


PIERS 1&3



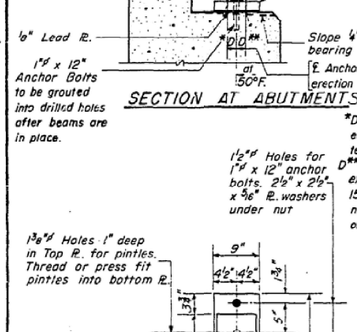
PIER 2

Note:
Run all diaphragms level.

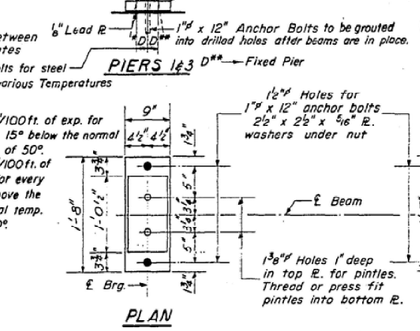


DIAPHRAGM D
6 Required

DIAPHRAGM D_1 & D_2
18 D_1 Required
9 D_2 Required



PLAN



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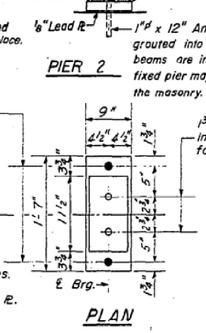

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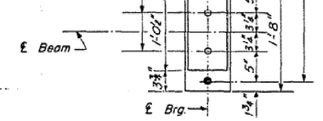

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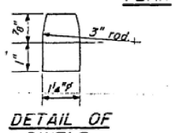
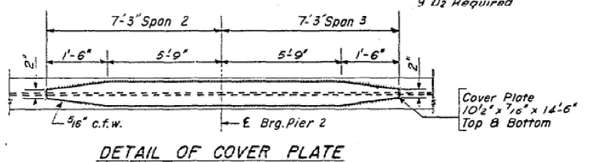
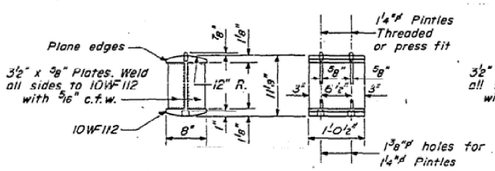


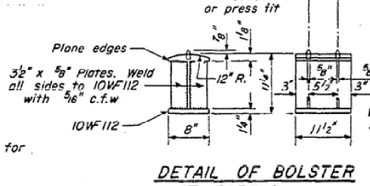
DETAIL OF PINTLE



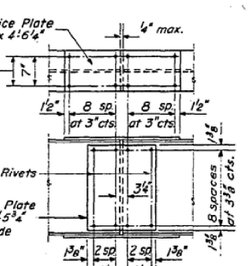
DETAIL OF COVER PLATE



DETAIL OF ROCKER AT PIERS 1&3, & ABUTS.



DETAIL OF BOLSTER AT PIER 2



DETAIL OF SPLICE

STRESS TABLE:

MOMENTS – INT. BEAMS					REACTIONS-INT. BM.		
	℄Sp. 1	Pier 1	℄Sp. 2	Pier 2	Abut	Pier 1	Pier 2
D.L.	103.3	-345.9	229.3	-328.8	15.9	69.4	84.4
L.L.	214.5	-227.7	301.3	-296.3	29.0	37.9	37.4
Imp.	64.3	-63.8	78.3	-77.0	8.7	10.6	9.7
Total	382.1	-637.4	608.9	-902.1	53.6	117.9	131.5

Moments are in kip-ft.
Reactions are in kips
Bridge is symm. about Pier 2

ELEVATION TOP OF WF

LOCATION	Bms. 1&4	Bms. 2&3
℄ Brg. W. Abut	715.91	716.01
℄ Brg. Pier 1	716.07	716.17
℄ Splice 1	716.11	716.21
℄ Brg. Pier 2	716.16	716.26
℄ Splice 2	716.17	716.27
℄ Splice 3	716.08	716.18
℄ Brg. Pier 3	716.03	716.13
℄ Brg. E. Abut.	715.84	715.94

Top of WF Elev. to be lowered .04'

DESIGNED Steven McConnell
CHECKED John Hayes
P.G. Barnett
DRAWN W.A. Sousoman Jr.
J. Kessler
CHECKED John Hayes

EXAMINED Sept. 27 1965
DIRECTOR OF BRIDGE AND TRAFFIC STRUCTURES
PASSED
ENGINEER OF DESIGN
APPROVED
CHIEF HIGHWAY ENGINEER

I-2-C 7-2-62 Rev. 11-9-62 Rev. 8-16-63 Rev. 12-10-63
Rev. 11-28-67 E.R.M. Lowered all top of WF Elev. .04'

STRUCTURAL STEEL
F.A.I. RT. 57 SEC. 21–29HB
DOUGLAS COUNTY
STATION 793+05.35 (F.A.I. 57)

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USER NAME = Steven.Wood	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -	
PLOT DATE = 8/12/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #7 S.N. 021-0034

SCALE: NONE | SHEET 3 OF 3 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	37
	* DOUGLAS & VERMILION		CONTRACT NO. 70G13	
		ILLINOIS	FED. AID PROJECT	

AS–BUILT PLANS FOR S.N. 092–0203
FOR INFORMATION ONLY

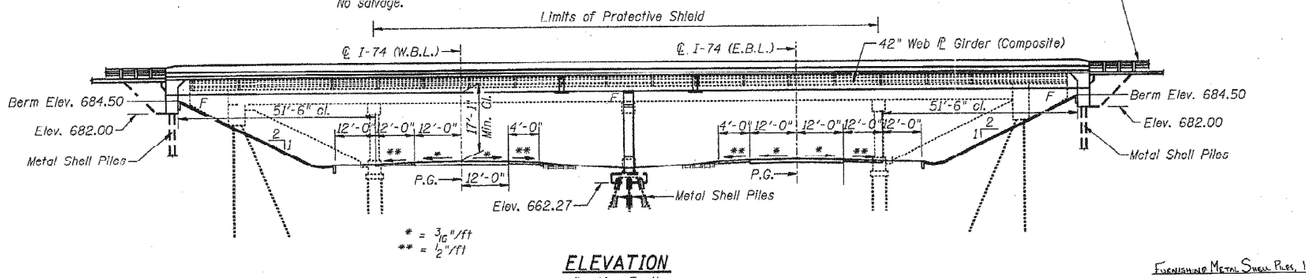
B.M: Chiseled "□" on west foundation of sign for northbound Route 49, south of entrance ramp for eastbound I-74. Elev. = 671.562

Existing Structure: S.N. 092-0105 Built in 1959. Four Simple Spans R.C.Deck With P.P.C. I-Beams on R.C. Piers and Abutments. The Structure is 28'-0" Wide Between Curbs and Spans 185'-6" Back to Back Abutments. Structure is to Be Removed and Replaced. The proposed structure allows for a third lane in each direction in anticipation of the future widening of I-74. Road will be closed and traffic detoured during construction. No salvage.

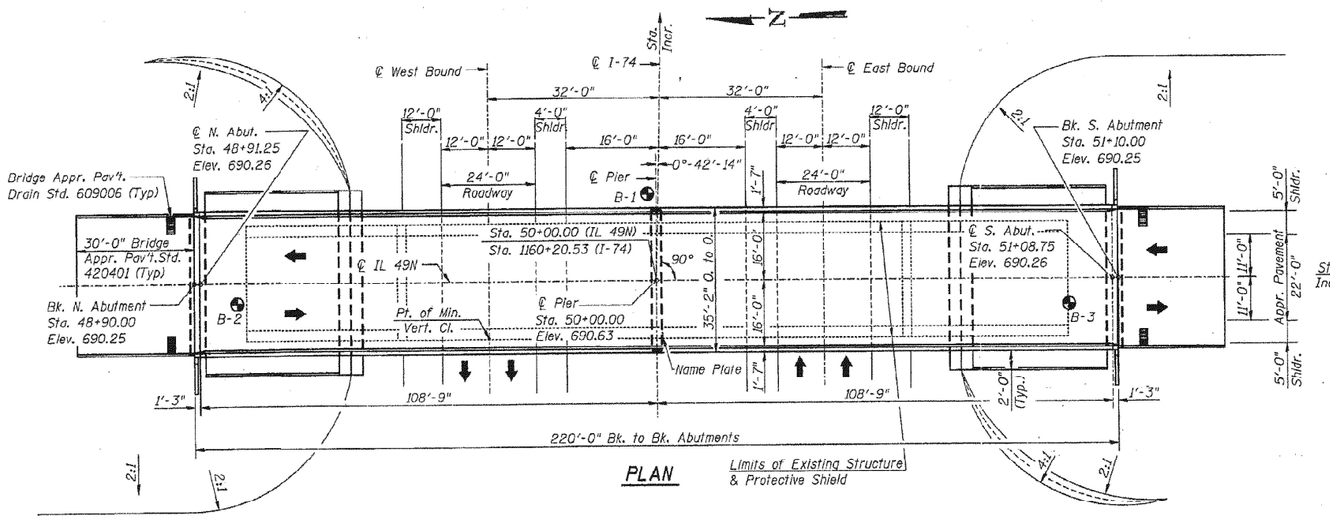
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	*	VERMILION	17	36
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 1
17 SHEETS

* (10-92-8HB-4)BR CONTRACT 70001



ELEVATION
(Looking East)



Indicates Boring

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment, Special	Cu. yd		89	89
Structure Excavation	Cu. yd		122	122
Concrete Structures	Cu. yd		84.8	84.8
Concrete Superstructure	Cu. yd	265.2		265.2
Bridge Deck Grooving	Sq. yd.	734		734
Reinforcement Bars, Epoxy coated	Pound	~~60380~~	14140	~~74520~~ 74410 60270
Furnishing and Erecting Structual Steel	Lump Sum	1		1
Protective Coat	Sq. yd	962		962
Stud Shear Connectors	Each	3852		3852
Name Plates	Each		1	1
~~Furnishing Metal Pile Shells (14" ϕ)~~ Furnishing Metal Shell Pile, 14"x 0.25"	Foot		1614	1614
~~Driving and Filling Shells~~ Driving Piles	Foot		1614	1614
Test Pile Metal Shells	Each		1	1
Slope Wall, 4"	Sq. yd		380	380
Bar Splicers	Each	64		64
Removal of Existing Structures ~~No. 2~~	Each	1		1
Protective Shield	Sq. yd	429		429

LOADING HL93 (STRUCT. STEEL, DECK & BEARINGS)
LOADING HS20-44 (SUBSTRUCTURE)

Allow 50 psf for future wearing surface.

DESIGN SPECIFICATIONS

Superstructure
1998 AASHTO LRFD Bridge Design Specifications with 1999 thru 2002 Interims.

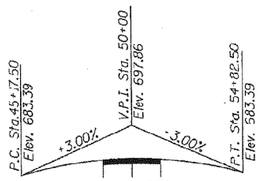
Substructure
1996 AASHTO Standard Specifications with 1997 thru 2002 Interims.

APPROVED
For Structural Adequacy Only

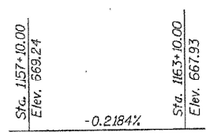
Ralph E. Anderson (TJD)
Engineer of Bridges & Structures

STATE OF ILLINOIS PAUL B. LIN No. 4419 REGISTERED STRUCTURAL ENGINEER

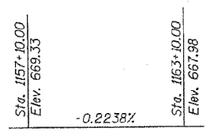
Paul B. Lin 2/23/05
ILLINOIS STRUCTURAL NO. 4419 DATE



PROFILE GRADE
(IL 49N along ℄ Roadway)



PROFILE GRADE
(F.A.I. Rte. 74 E.B.)



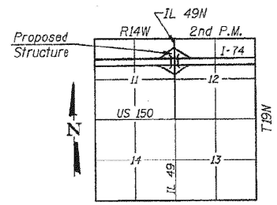
PROFILE GRADE
(F.A.I. Rte. 74 W.B.)

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.048g
Site Coefficient (S) = 1.2

DESIGN STRESSES
FIELD UNITS

f'_c = 3.5 ksi
f_y = 60 ksi (reinf.)
f_y = 50 ksi (Struct. Steel, AASHTO M270 Gr. 36)
f_y = 50 ksi (Struct. Steel, AASHTO M270 Gr. 50)



LOCATION SKETCH

REVISIONS NAME	DATE

LIN ENGINEERING, LTD.
210 W. Chestnut, Chatham, Illinois 62629
(217) 483-4126 FAX (217) 483-4750
Designed By: MTH | Checked By: STD | Drawn By: JMD
Date: 11/02 | File: 092020300

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN
FAP ROUTE 840 (IL 49N)
OVER FAI RTE 74 (I-74)
SECTION (10-92-8HB-4) BR
VERMILION COUNTY
STA. 1160+20.53 (I-74)
STA. 50+00.00 (IL 49N)
STRUCTURE NO. 092-0203

USER NAME = Steven.Wood	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/12/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #8 S.N. 092-0203

SCALE: NONE | SHEET 1 OF 6 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	38
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
	ILLINOIS	FED. AID PROJECT		

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	*	VERMILION	71	31
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT=	

SHEET NO. 2
17 SHEETS

★ (10-92-8HB-4)BR

AS-BUILT PLANS FOR S.N. 092-0203
FOR INFORMATION ONLY

GENERAL NOTES

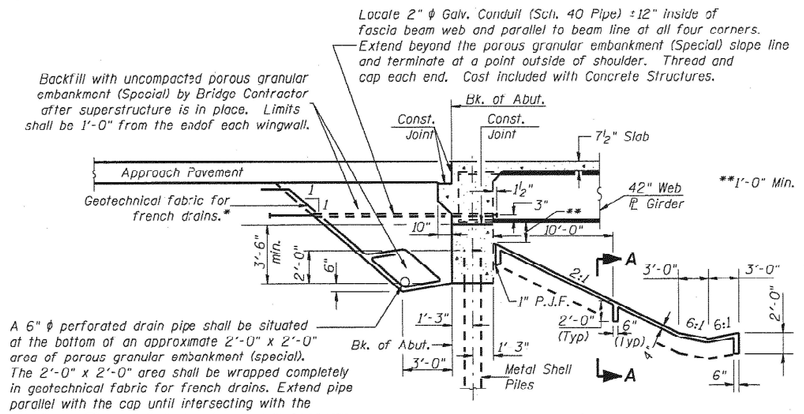
1. Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts $\frac{7}{8}$" ϕ, holes $\frac{15}{16}$" ϕ, unless otherwise noted.
2. Calculated weight of Structual Steel = 17,800 lbs. (AASHTO M270 Grade 36)
   274,060 lbs. (AASHTO M270 Grade 50)
3. Field welding of construction accessories will not be permitted to beams or girders.
4. Anchor bolts shall be set before bolting diaphragms over supports.
5. 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 except fill plates.
6. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions
7. Slope wall shall be reinforced with welded wire fabric, 6" x 6" - W4.0 x W4.0, weighing 58 lbs. Per 100 sq. ft.
8. The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles..
9. Bearing seat surfaces shall be constructed or adjusted to the designed elevations within a tolerance of $\frac{1}{8}$ inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two $\frac{1}{8}$" adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims.
10. Metal Shell Piles at the abutments shall be driven in holes precored to bottom of existing pavement under the embankment according to article 512.09(c) of the Standard Specifications. Precore 18" diam. to EL 662.5, Typ. Cost included in Driving Piles.
11. All construction joints shall be bonded.
12. The Organic Zinc Rich Primer / Epoxy / Urethane Paint System shall be used for painting of new structural steel except where otherwise noted. The entire system shall be shop applied, with the exception that masked off connection surfaces, field installed fasteners and damaged areas shall be touched up in the field. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall b Interstate Green (Munsell Color Standard 7.5G 4/8) -. See Special Provision for "Cleaning and Painting New Metal Structures".

The contractor shall construct the parapets according to the F shape parapet detailed in the special provisions in lieu of the New Jersey parapet detailed in the contract plans.

STATION 1160+20.53
BUILT 200 BY
STATE OF ILLINOIS
F.A.I. RT. 74 SEC. (10-92-8HB-4)BR
LOADING HL93 (HS20)
STR. NO. 092-0203

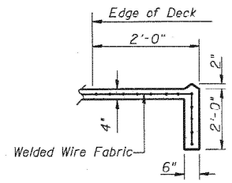
NAME PLATE
See Std. 515001

Note: Excavation for placing PGE (Special) is paid for as Structure Excavation.



*Included in the cost of "Porous Granular Embankment (Special)".

INTEGRAL ABUTMENT & SLOPEWALL DETAILS



SECTION A-A

LIN ENGINEERING,LTD.
210 N. Chestnut, Chatham, Illinois 62629
(217) 483-468, FAX (217) 483-4706
Designed By: WTH | Checked By: STD | Drawn By: JMD
Date: 2/02 | File: 092d203.DGN

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL NOTES
FAP ROUTE 840 (IL 49N)
OVER FAI RTE 74 (I-74)
SECTION (10-92-8HB-4) BR
VERMILION COUNTY
STA. 1160+20.53 (I-74)
STA. 50+00.00 (IL 49N)
STRUCTURE NO. 092-0203

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	DRAWN -	REVISED -	
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -	
PLOT DATE = 8/12/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #8 S.N. 092-0203

SCALE: NONE | SHEET 2 OF 6 SHEETS | STA. | TO STA.

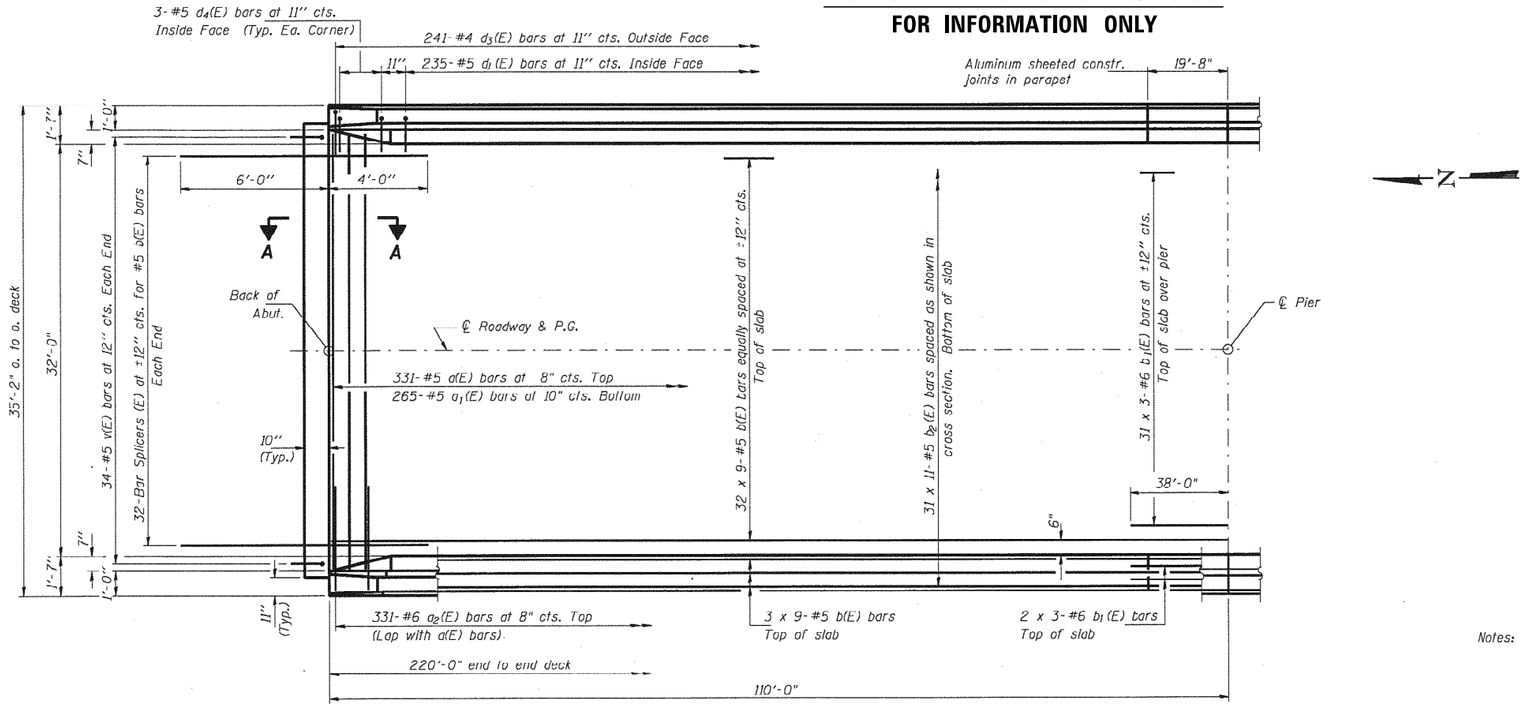
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	39
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
	ILLINOIS	FED. AID PROJECT		

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	*	VERMILION	71	34
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

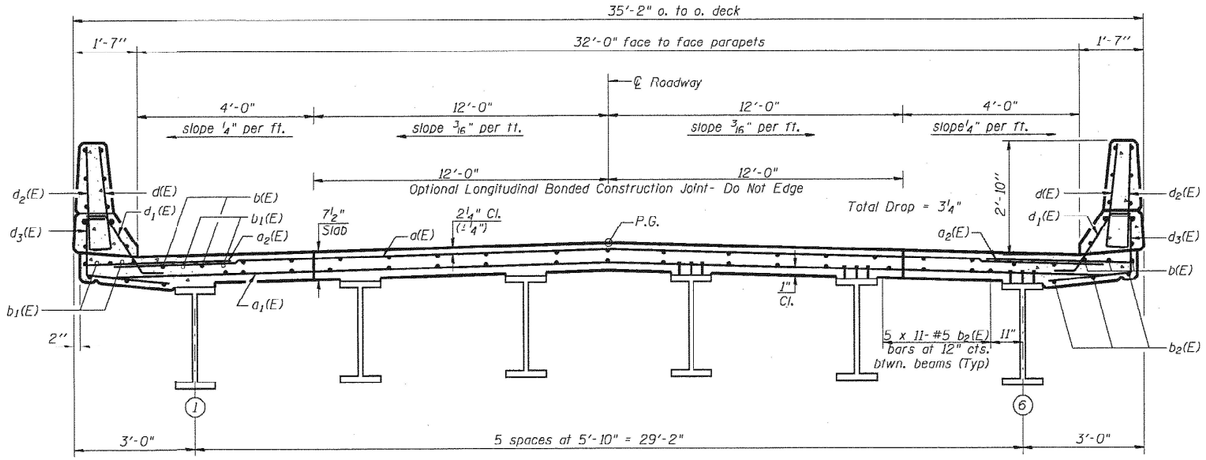
SHEET NO. 5
17 SHEETS

* (10-92-8HB-4)BR

AS-BUILT PLANS FOR S.N. 092-0203
FOR INFORMATION ONLY



HALF PLAN



CROSS SECTION
(Looking South)

MIN. BAR LAP
#5 bar= 1'-8"
#6 bar= 2'-0"

Notes: See Sheet 6 of 17 for superstructure details and Bill of Material.

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.

See Sheet 6 of 17 for parapet reinforcement.

See Sheet 9 of 17 for Section A-A.

See Sheet 13 of 17 for Bar Splicer Details.

LIN ENGINEERING, LTD.
210 W. Chestnut, Chatham, Illinois 62629
(217) 483-4668 FAX (217) 483-4706
Designed By: MTH | Checked By: STD | Drawn By: JMD
Date: 11/02 | File: 092020203.DGN

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUPERSTRUCTURE
FAP ROUTE 840 (IL 49N)
OVER FAI RTE 74 (I-74)
SECTION (10-92-8HB-4) BR
VERMILION COUNTY
STA. 1160+20.53 (I-74)
STA. 50+00.00 (IL 49N)
STRUCTURE NO. 092-0203

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	DRAWN -	REVISED -	
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/12/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #8 S.N. 092-0203

SCALE: NONE | SHEET 3 OF 6 SHEETS | STA. | TO STA.

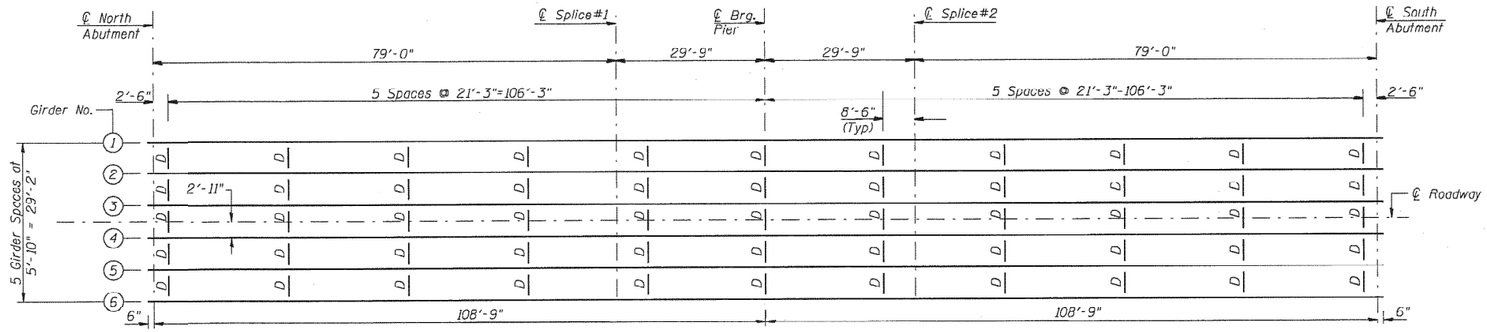
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	40
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
		ILLINOIS	FED. AID PROJECT	

AS–BUILT PLANS FOR S.N. 092–0203
FOR INFORMATION ONLY

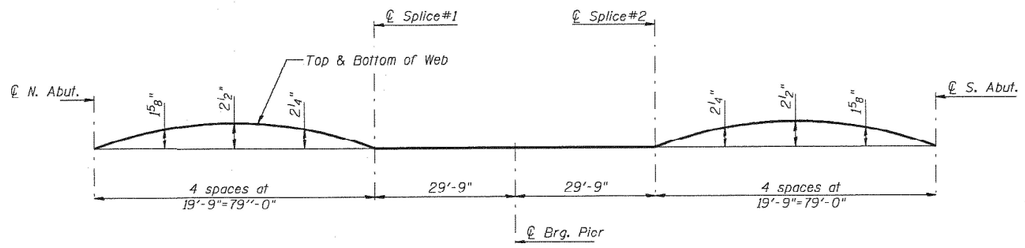
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	*	VERMILION	71	36
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 7
17 SHEETS

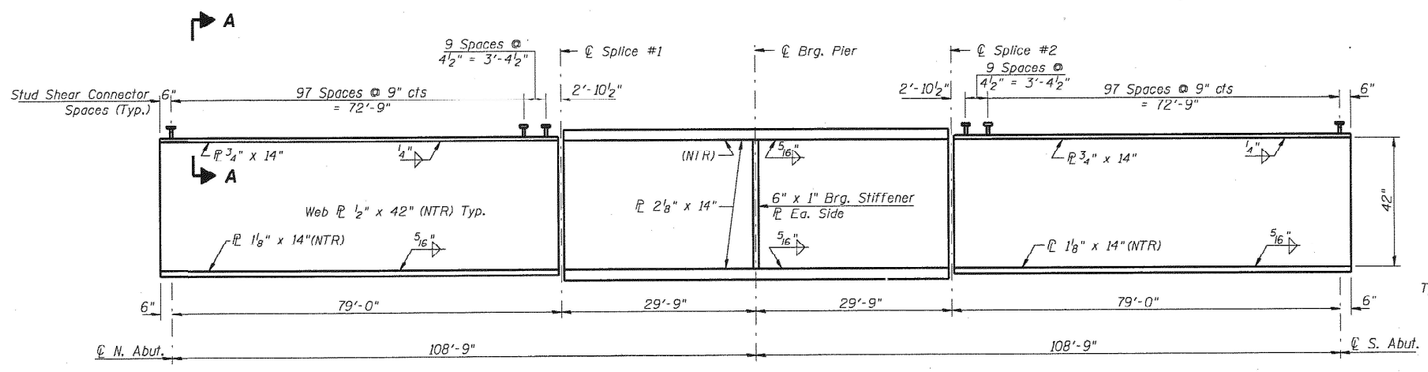
★ (10-92-8HB-4)BR



FRAMING PLAN



CAMBER DIAGRAM



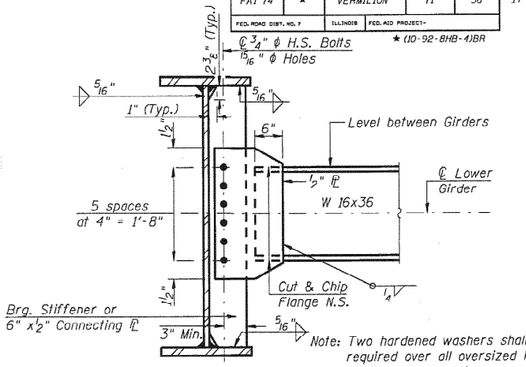
GIRDER ELEVATION

"NTR" denotes plates to which notch toughness requirements are applicable.

* TOP OF WEB ELEVATIONS

	Girder 1 & 6	Girder 2 & 5	Girder 3 & 4
℄ N. Abut.	689.269	689.373	689.464
℄ Splice #1	689.525	689.630	689.721
℄ Brg. Pier	689.521	689.626	689.717
℄ Splice #2	689.517	689.622	689.713
℄ S. Abut.	689.269	689.373	689.464

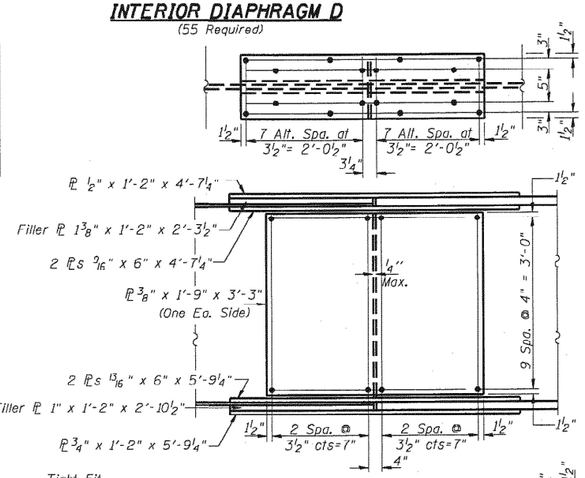
*For Fabrication Only

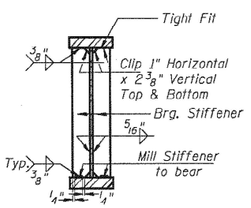


Note: Two hardened washers shall be required over all oversized holes in diaphragm connections.

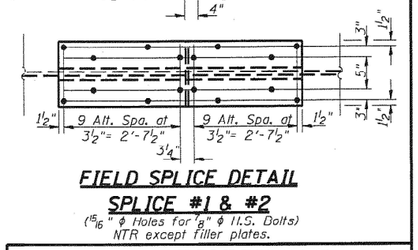
INTERIOR DIAPHRAGM D

(55 Required)



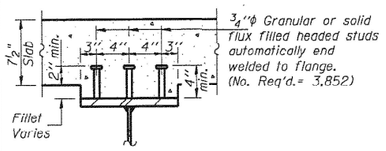


SECTION AT PIER



FIELD SPLICE DETAIL
SPLICE #1 & #2

(15/16" ϕ Holes for ⅞" ϕ H.S. Bolts)
NTR except filler plates.



¾"ϕ Granular or solid flux filled headed studs automatically end welded to flange. (No. Req'd.= 3,852)

SECTION A-A

Notes: Girder plates, Brg. Stiffeners, and splice plates shall be AASHTO M270 Grade 50.
Diaphragms and connecting plates shall be AASHTO M270 Grade 36.

LIN ENGINEERING, LTD.
210 W. Chestnut, Effingham, Illinois 62629
(217) 463-468 FAX (217) 463-4706
Designed BH WTH | Checked BH STD | Drawn BH JMD
Plots: 11x17 | File: D570713.DGN

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

FRAMING PLAN & GIRDER DETAILS
FAP ROUTE 840 (IL 49N)
OVER FAI RTE 74 (I-74)
SECTION (10-92-8HB-4) BR
VERMILION COUNTY
STA. 1160+20.53 (I-74)
STA. 50+00.00 (IL 49N)
STRUCTURE NO. 092-0203

MODEL: $MODELNAME$
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USER NAME = Steven.Wood	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -	
PLOT DATE = 8/12/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #8 S.N. 092-0203

SCALE: NONE | SHEET 4 OF 6 SHEETS | STA. | TO STA.

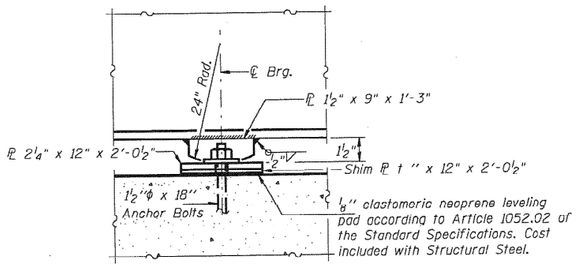
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	41
* DOUGLAS & VERMILION		CONTRACT NO. 70G13		
ILLINOIS	FED. AID PROJECT			

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	★	VERMILION	71	51
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

★(10-92-8HB-4)BR

SHEET NO. 8
17 SHEETS

AS-BUILT PLANS FOR S.N. 092-0203
FOR INFORMATION ONLY



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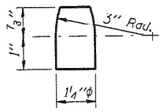
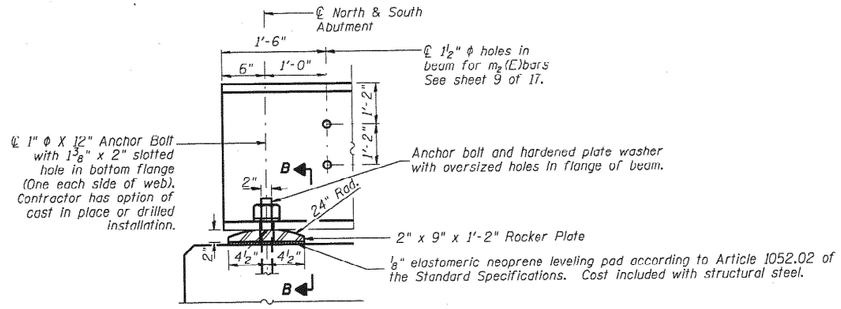


PINTLE



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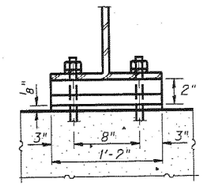
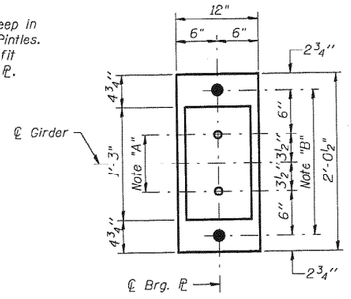


SECTION B-B

Note "A"
1⅜"ϕ Holes-1" deep in top ℄ for 1¼"ϕ Pintles. Thread or press fit pintles in bottom ℄.



Note "B"
2"ϕ Holes for 1½"ϕ Anchor Bolts-3" x 3" x 5/16" ℄ washer under nut.

PLAN AT PIER

INTERIOR GIRDER MOMENT TABLE			
		0.4 Sp. 1 & 0.6 Sp. 2	Pier
Is	(in⁴)	14929	32071
$I_{c(n)}$	(in⁴)	37204	
$I_{c(3n)}$	(in⁴)	26673	
Ss	(in³)	758	1387
$S_{c(n)}$	(in³)	1040	
$S_{c(3n)}$	(in³)	946	
Z	(in³)		
DC1	(k/ft)	0.760	0.900
M DC1	(k-ft)	595	1587
DC2	(k/ft)	0.137	0.137
M DC2	(k-ft)	109	214
DW	(k/ft)	0.267	0.267
M DW	(k-ft)	212	418
M LL	(k-ft)	1114	1084
M Imp	(k-ft)	367	358
M LL+Imp	(k-ft)	1481	1442
Ma (Strength I)	(k-ft)	3790	5402
Mr	(k-ft)	5371	
fs DC1	(ksi)	9.4	13.7
fs DC2	(ksi)	1.4	1.9
fs DW	(ksi)	2.7	3.6
fs 1.3(LL+I)	(ksi)	22.2	12.5
fs (Ser II)	(ksi)	35.7	31.7
fs (Total) (Strength I)	(ksi)		41.7
V_{sr}	(k)	23.1	

Interior Girder Reaction Table - HL93 Loading			
		Abututment	Pier
R_{DC1}	(k)	32.0	128.7
R_{DC2+DW}	(k)	16.2	55.6
R_{LL}	(k)	55.0	105.1
R_{Imp}	(k)	18.2	34.7
R (Total)	(k)	121.4	324.1

Interior Girder Reaction Table - HS20 Loading			
		Abututment	Pier
R_{DL}	(k)	47.9	184.7
R_{LL}	(k)	34.2	59.6
R_{Imp}	(k)	7.3	8.7
R (Total)	(k)	89.4	253.0

Is and Ss are the moment of inertia and section modulus of the steel section used in computing fs due to non composite loads.

$I_{c(n)}$ and $S_{c(n)}$ are the moment of inertia and section modulus of the composite section used in computing fs due to short-term composite loads.

$I_{c(3n)}$ and $S_{c(3n)}$ are the moment of inertia and section modulus of the composite section used in computing fs due to long-term composite loads.

V_{sr} is the maximum of 0.75 (LL+IM) shear range in span.

Z is the plastic section modulus used to determine the fully plastic moments in the non-composite areas.

Ma (Strength I)= 1.25 M(DC1+DC2) + 1.5 DW + 1.75 M(LL+Imp)

Mr is the Full Plastic Moment Capacity computed in accordance with AASHTO 6.10.3.1.3 and 6.10.1.2.2

fs (Service II) is the sum of the stresses due to DC1 + DC2 + DW +1.3 (LL+Imp).

fs (Total) (Non-compact section) is the sum of the stresses due to 1.25 (DC1 + DC2) +1.5 DW +1.75 (LL+Imp).

DC1 is the dead load acting on non-composite section.

DC2 is the dead load acting on the long-term composite section.

DW is the dead load acting on long-term composite section due to wearing surface.

END OF GIRDER AT ABUTMENTS

Note: All Steel plates shown on this sheet shall be AASHTO M270 Grade 50.

LIN ENGINEERING,LTD.
110 W. Chestnut, Chatham, Illinois 62629
(217) 483-4462 FAX (217) 483-4106
Designed By: MTH | Checked By: STD | Drawn By: JMD
Date: 11/19 | File: 09010703.DGN

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
BEARING DETAILS
FAP ROUTE 840 (IL 49N)
OVER FAI RTE 74 (I-74)
SECTION (10-92-8HB-4) BR
VERMILION COUNTY
STA. 1160+20.53 (I-74)
STA. 50+00.00 (IL 49N)
STRUCTURE NO. 092-0203

MODEL: SMODELNAMES
FILE NAME: pw:\\Bidview.bentley.com:PWIDOT\Documents\IDOT Offices\District 5\ORD Projects\D5T0613\CADData\CADsheets\D5T0613-3-sht-AA_Bullts.dgn

USER NAME = Steven.Wood	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -
PLOT DATE = 8/12/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #8 S.N. 092-0203

SCALE: NONE | SHEET 5 OF 6 SHEETS | STA. | TO STA.

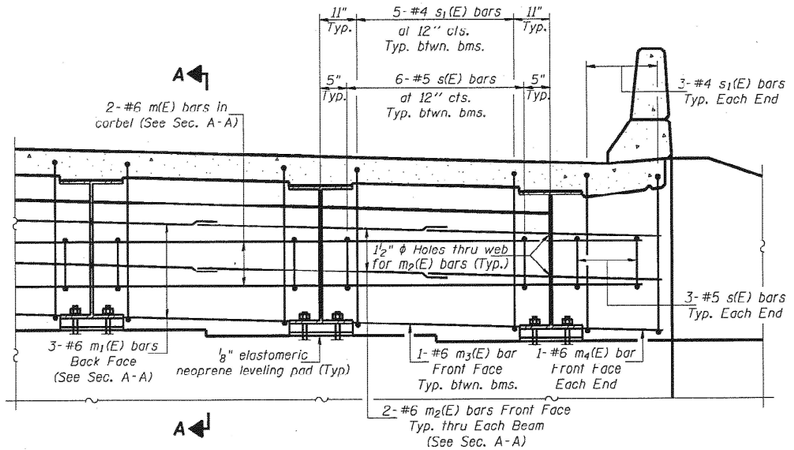
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	42
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
	ILLINOIS	FED. AID PROJECT		

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	★	VERMILION	71	38
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

★ (10-92-8HB-4)BR

SHEET NO. 9
17 SHEETS

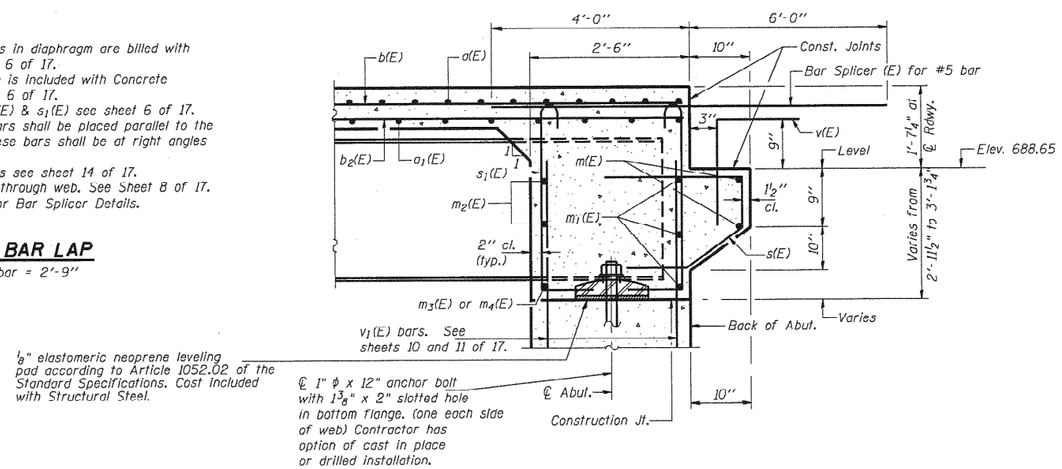
AS-BUILT PLANS FOR S.N. 092-0203
FOR INFORMATION ONLY



DIAPHRAGM ELEVATION AT ABUTMENT

Notes: Reinforcement bars in diaphragm are billed with superstructure on sheet 6 of 17.
Concrete in diaphragm is included with Concrete Superstructure on sheet 6 of 17.
For details of bars s(E) & s_1(E) see sheet 6 of 17.
The s(E) and s_1(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.
For anchor bolt details see sheet 14 of 17.
For location of holes through web. See Sheet 8 of 17.
See sheet 13 of 17 for Bar Splicer Details.

MIN. BAR LAP
#6 bar = 2'-9"



SECTION A-A
Dimensions at right angles to abutment.
* Cost included with Concrete Structures.

REVISIONS	
NAME	DATE

LIN ENGINEERING, LTD.
20 W. Chestnut (217) 483-4168 Chatham, Illinois 62629 FAX (217) 483-4706
Designed By: WTH | Checked By: STD | Drawn By: JMD
Date: 11/06 | File: 092020203.DGN

ILLINOIS DEPARTMENT OF TRANSPORTATION
END DIAPHRAGM DETAILS
FAP ROUTE 840 (IL 49N)
OVER FAI RTE 74 (I-74)
SECTION (10-92-8HB-4) BR
VERMILION COUNTY
STA. 1160+20.53 (I-74)
STA. 50+00.00 (IL 49N)
STRUCTURE NO. 092-0203

MODEL: $MODELNAME$
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USER NAME = Steven.Wood	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/12/2024	DATE -	REVISED -	

AS-BUILT PLANS
LOCATION #8 S.N. 092-0203
SCALE: NONE | SHEET 6 OF 6 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	43
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
		ILLINOIS	FED. AID PROJECT	

Bench Mark
Top of rectangular concrete property post marked I11. on one side. Located at 57'-0" on left of Sta. 858+16
Existing Super-structure to be removed and Sub-structure to be repaired.
No Salvage

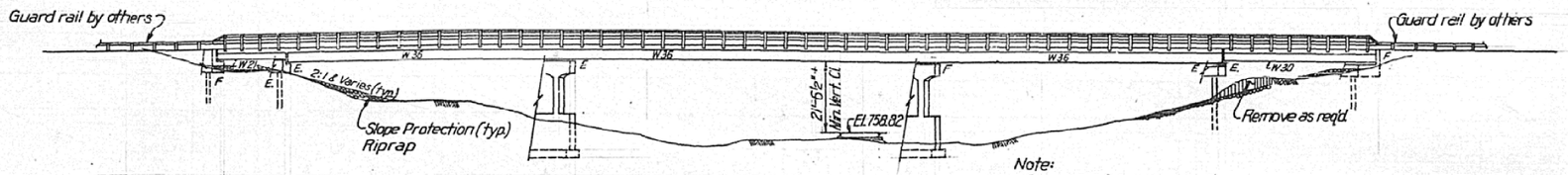
AS-BUILT PLANS FOR S.N. 092-0101
FOR INFORMATION ONLY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	122 VBR	VERMILION	39	15
STA. 850+55		TO STA. 865+55		
FED. ROAD DIST. NO	ILLINOIS	FED. AID PROJECT		

STATION 858+22.89
RE-BUILT 197 BY
STATE OF ILLINOIS
F.A.P. RT. 840 (ILL. 49)
SEC. 122 VBR
F.A. PROJ. BR-F-840(11)
LOADING HS 20
* STR. No. 092 0101

*Structure Number to be supplied by District

NAME PLATE



ELEVATION
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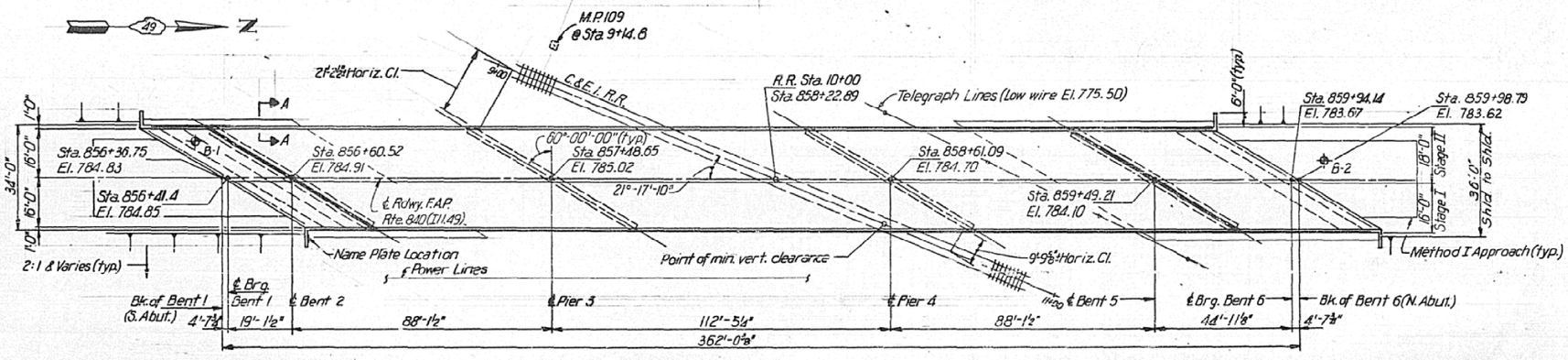
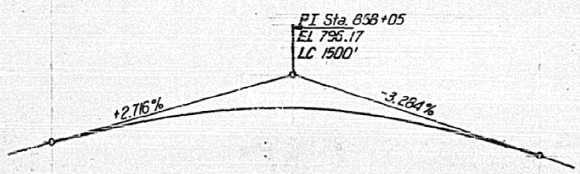
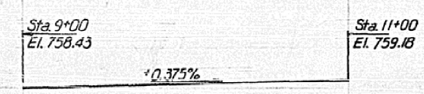


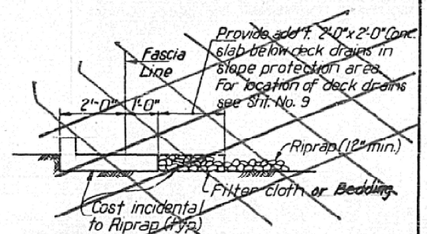
PLAN
Scale: 1"=20'-0"



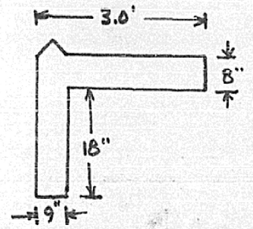
PROFILE GRADE F.A.P. RTE. 840
(Proposed Profile)

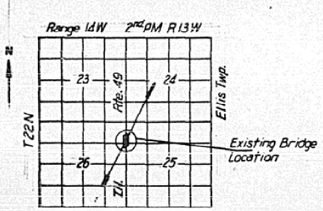


PROFILE GRADE C. & E.I. R.R.



ALTERNATE SECTION A-A





LOCATION MAP

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Engineer of Bridges & Traffic Structures
Sandor Piroti

REVISIONS	
NAME	DATE

ILLINOIS DIVISION OF HIGHWAYS
GENERAL PLAN AND ELEVATION
F.A.P. ROUTE 840 (ILL. 49)
SECTION 122 VBR
VERMILION COUNTY

SCALE VERT. 1" = 5'
HORIZ. 1" = 20'
DATE
DRAWN BY K.C.
CHECKED BY J.P.

MODEL: $MODELNAME$
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USER NAME = Steven.Wood	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/12/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

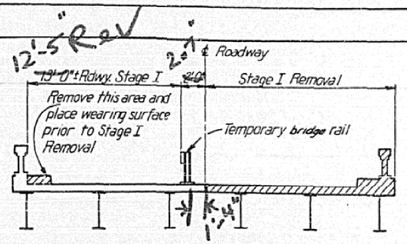
AS-BUILT PLANS
LOCATION #9 S.N. 092-0101

SCALE: NONE | SHEET 1 OF 6 SHEETS | STA. | TO STA.

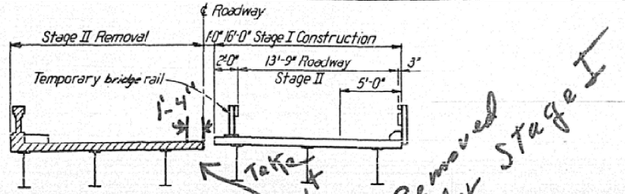
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	44
* DOUGLAS & VERMILION		CONTRACT NO. 70G13		
ILLINOIS	FED. AID PROJECT			

AS–BUILT PLANS FOR S.N. 092–0101

FOR INFORMATION ONLY

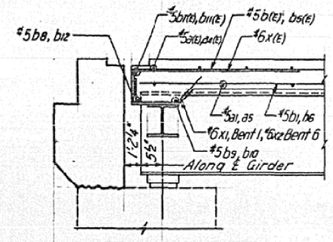


STAGE I Rev.



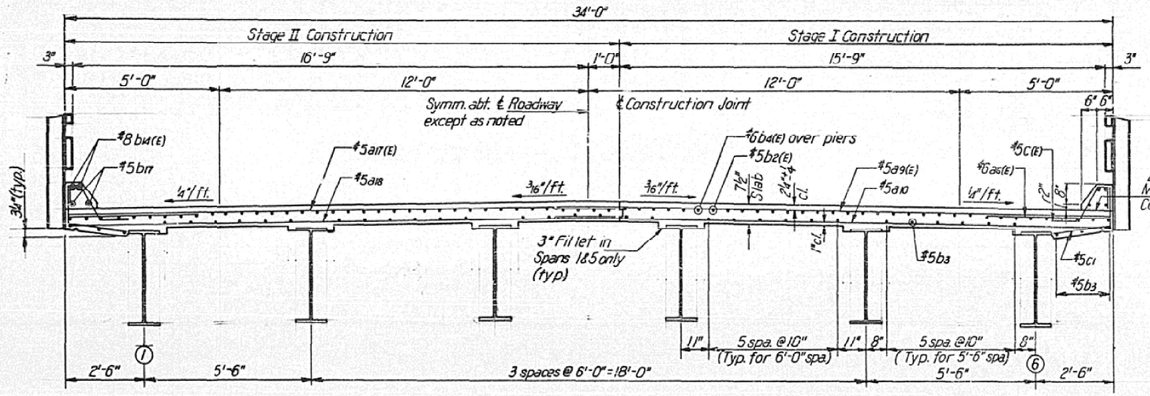
STAGE II

Take out Rev. Removed under Stage I

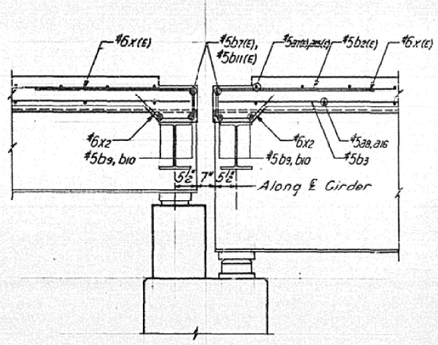


SECTION B-B

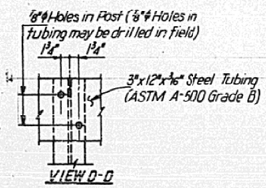
Rev: →



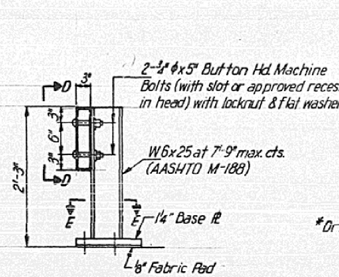
SECTION A-A

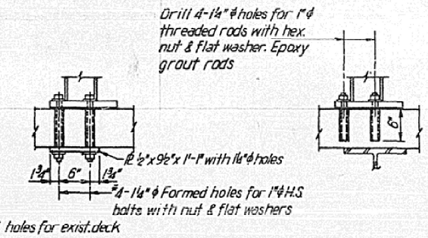


SECTION C-C



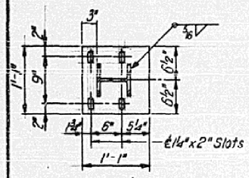
VIEW D-D





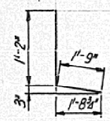
*Drilled holes for exist. deck

ANCHORAGE DETAILS

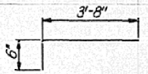


BASE Pl.
SECTION E-E

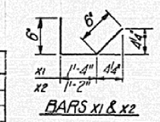
TEMPORARY BRIDGE RAIL DETAILS
(See Special Provisions)



BAR C1

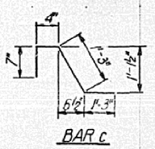


BAR x



CUT DIAGRAM

BARS X1 & X2



BAR C

BAR	A	B	C	D
a(E)	11'-5"	2'-4"	7'-1"	6'-8"
a1	11'-5"	2'-4"	7'-1"	6'-8"
a4(E)	12'-6"	1'-0"	6'-11"	6'-7"
a5	12'-6"	1'-0"	6'-11"	6'-7"
a7(E)	16'-9"	2'-4"	2'-4"	16'-9"
a8	15'-9"	2'-4"	2'-4"	15'-9"
a11(E)	18'-0"	1'-0"	1'-0"	18'-0"
a12	18'-0"	1'-0"	1'-0"	18'-0"
a13(E)	11'-5"	1'-0"	6'-5"	6'-0"
a14	11'-5"	1'-0"	6'-5"	6'-0"
a15(E)	17'-9"	1'-0"	1'-0"	17'-9"
a16	17'-9"	1'-0"	1'-0"	17'-9"
a19(E)	16'-9"	1'-0"	1'-0"	16'-9"
a20	16'-9"	1'-0"	1'-0"	16'-9"

Order bars full length, cut to fit as shown and use remainder of bars as indicated on the plans.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	122 VBR	VERMILION	39	23
STA. 850+55		TO STA. 865+55		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

BILL OF MATERIALS

BAR	No.	SIZE	LENGTH	SHAPE
a(E)	15	#5	13'-9"	—
a1	10	#5	13'-9"	—
a2(E)	37	#5	11'-4"	—
a3	24	#5	11'-4"	—
a4(E)	42	#5	13'-6"	—
a5	28	#5	13'-6"	—
a6 E	706	#6	4'-0"	—
a7(E)	48	#5	19'-1"	—
a8	32	#5	19'-1"	—
a9(E)	550	#5	18'-0"	—
a10	367	#5	18'-0"	—
a11(E)	59	#5	19'-0"	—
a12	40	#5	19'-0"	—
a13(E)	20	#5	12'-5"	—
a14	13	#5	12'-5"	—
a15(E)	59	#5	18'-9"	—
a16	40	#5	18'-9"	—
a17(E)	550	#5	17'-9"	—
a18	367	#5	17'-9"	—
a19(E)	56	#5	17'-5"	—
a20	37	#5	17'-9"	—
a21(E)	128	#5	2'-0"	—
b(E)	39	#5	20'-1"	—
b1	38	#5	20'-1"	—
b2(E)	350	#5	29'-11"	—
b3	396	#5	27'-4"	—
b4(E)	68	#6	37'-6"	—
b5(E)	78	#5	23'-9"	—
b6	72	#5	23'-9"	—
b7(E)	6	#5	34'-0"	—
b8	2	#5	34'-0"	—
b9	20	#5	10'-6"	—
b10	30	#5	11'-6"	—
b11(E)	6	#5	35'-6"	—
b12	2	#5	35'-6"	—
b13(E)	4	#8	20'-1"	—
b14(E)	24	#8	26'-3"	—
b15(E)	8	#8	24'-2"	—
b16(E)	12	#8	28'-9"	—
b17(E)	24	#5	25'-9"	—
b18(E)	12	#5	28'-3"	—
b19(E)	16	#8	14'-9"	—
b20(E)	16	#5	14'-9"	—
c(E)	714	#5	3'-5"	⌐
c1	714	#5	2'-11"	⌐
x(E)	180	#6	4'-2"	⊔
x1	60	#6	2'-2"	⊔
x2	120	#6	2'-4"	⊔
Superstructure Removal			Each	1
Class X Concrete			Cu Yds.	317.6
Reinf. Bars Epoxy coated			Lbs.	53,410
Reinforcement Bars			Lbs.	39,150

REVISIONS	
NAME	DATE

ILLINOIS DIVISION OF HIGHWAYS
DECK DETAILS I
F.A.P. ROUTE 840 (ILL. 49)
SECTION 122 VBR
VERMILION COUNTY

SCALE: VERT. NONE HORIZ. DRAWN BY K.C.
DATE CHECKED BY J.P.

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USER NAME = Steven.Wood	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/12/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #9 S.N. 092-0101

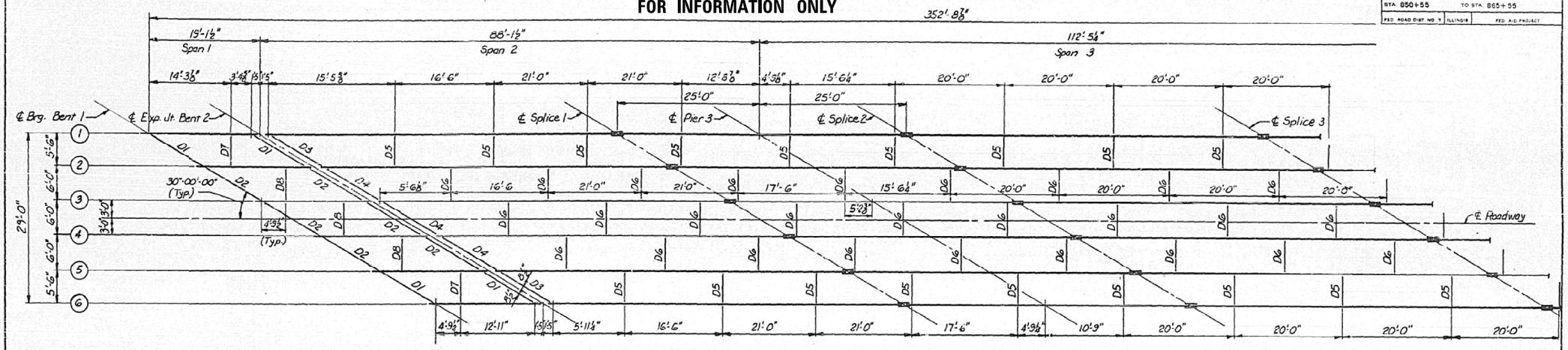
SCALE: NONE | SHEET 2 OF 6 SHEETS | STA. | TO STA.

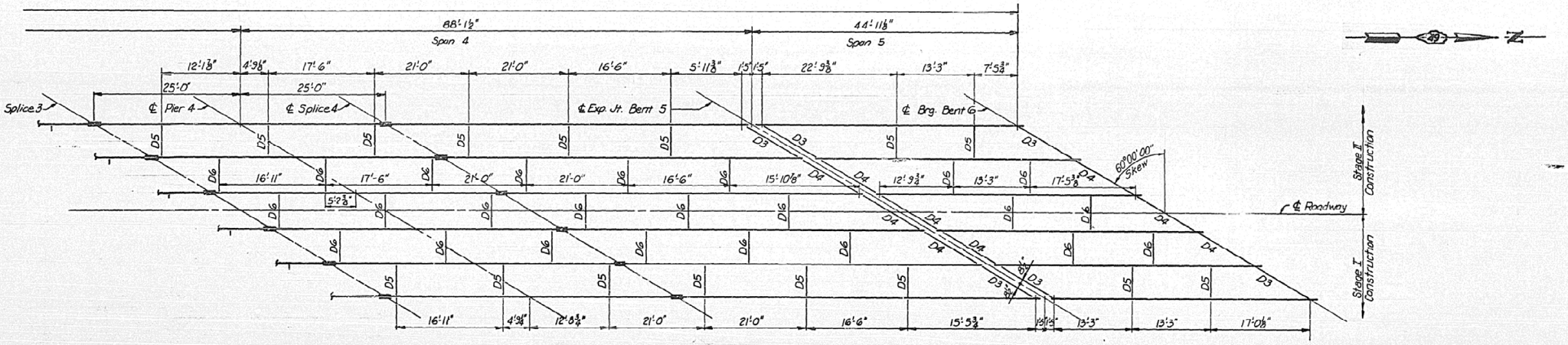
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	45
* DOUGLAS & VERMILION		CONTRACT NO. 70G13		
ILLINOIS	FED. AID PROJECT			

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	122 VBR	VERMILION	34	24
STA. 850+55	TO STA. 865+55			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

AS–BUILT PLANS FOR S.N. 092–0101

FOR INFORMATION ONLY





NOTE: THE CONNECTION OF ALL DIAPHRAMS BETWEEN BEAMS 3 & 4 SHALL NOT BE TIGHTENED UNTIL THE DECK SLAB HAS BEEN COMPLETED FOR BOTH STAGES.

REVISIONS	
NAME	DATE

ILLINOIS DIVISION OF HIGHWAYS

FRAMING PLAN

F.A.P. ROUTE 840 (ILL. 49)

SECTION 122 VBR

VERMILION COUNTY

SCALE: VERT. 1/8"=1'-0" HORIZ.

DRAWN BY E.M.T.

DATE

CHECKED BY J.P.

MODEL: $MODELNAME$
FILE NAME: pw:\\Bidopw.bentley.com:PWIDOT\Documents\IDOT Offices\District 5\ORD Projects\D5T0G13\CADData\CADsheets\D5T0G13-sht-As_Builts.dgn

USER NAME = Steven.Wood	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -	
PLOT DATE = 8/12/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

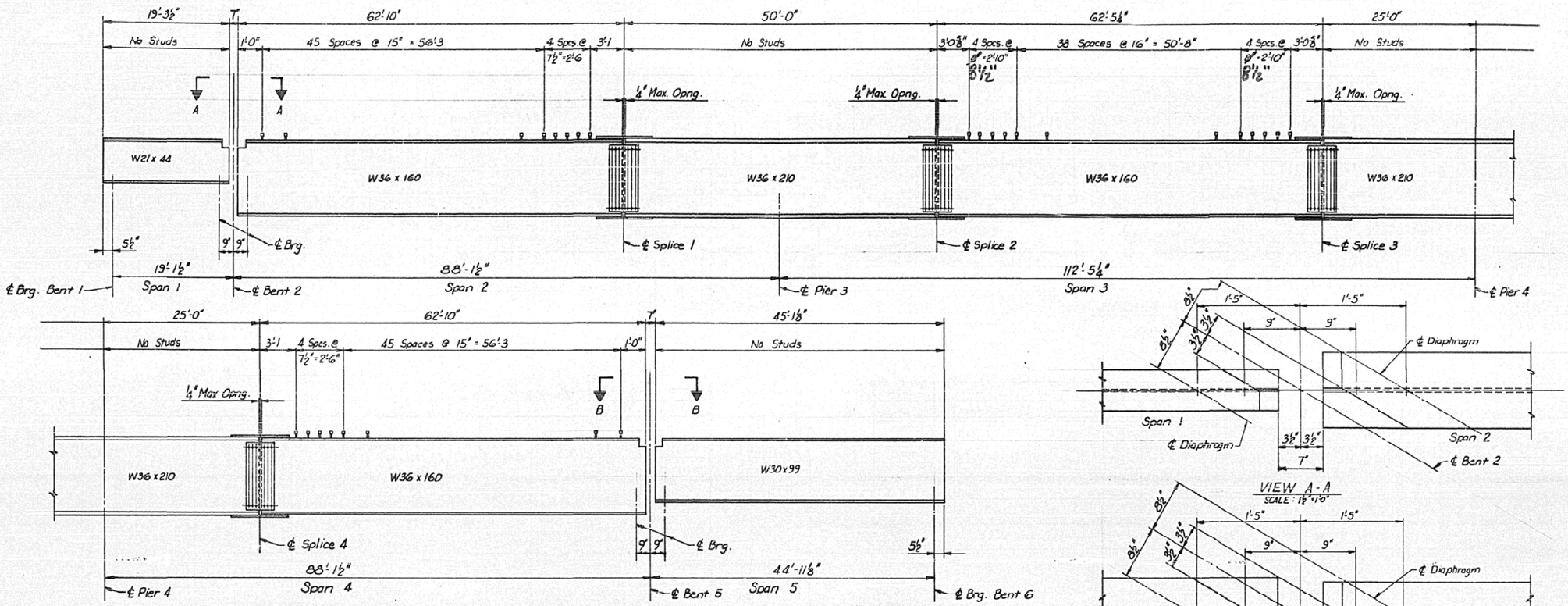
AS-BUILT PLANS
LOCATION #9 S.N. 092-0101

SCALE: NONE | SHEET 3 OF 6 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	46
* DOUGLAS & VERMILION		CONTRACT NO. 70G13		
ILLINOIS	FED. AID PROJECT			

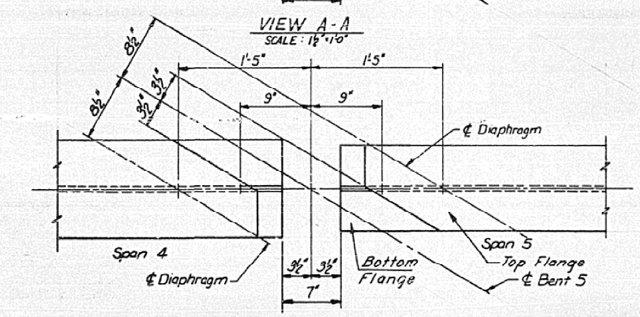
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	122 VBR	VERMILION	39	25
STA. 850+55		TO STA. 865+55		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

AS-BUILT PLANS FOR S.N. 092-0101
FOR INFORMATION ONLY

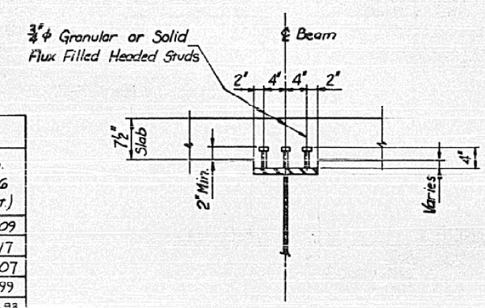


TYPICAL BEAM ELEVATION
SCALE: NONE

VIEW A-A
SCALE: 1½" = 1'-0"



VIEW B-B



STUD SHEAR CONNECTOR DETAILS

TOP OF FLANGE ELEVATIONS

Beam	℄ Brg. Bent 1 (S. Abut.)	℄ Brg. Bent 2 Span 1	℄ Brg. Bent 2 Span 2	℄ Splice 1	℄ Brg. Pier 3	℄ Splice 2	℄ Splice 3	℄ Brg. Pier 4	℄ Splice 4	℄ Brg. Bent 5 Span 4	℄ Brg. Bent 5 Span 5	℄ Brg. Bent 6 (N. Abut.)
1	783.837	783.917	783.923	784.011	784.022	784.032	784.129	783.906	783.685	783.392	783.386	783.009
2	783.979	784.052	784.057	784.121	784.123	784.123	783.985	783.875	783.762	783.416	783.410	783.017
3	784.116	784.181	784.185	784.224	784.214	784.206	784.041	783.920	783.798	783.425	783.419	783.007
4	784.154	784.212	784.216	784.228	784.209	784.189	783.999	783.867	783.735	783.335	783.329	782.899
5	784.095	784.144	784.148	784.134	784.104	784.074	783.858	783.715	783.572	783.148	783.141	782.693
6	784.023	784.066	784.069	784.031	783.993	783.952	783.712	783.561	783.408	782.959	782.952	782.487

REVISIONS	
NAME	DATE

ILLINOIS DIVISION OF HIGHWAYS
FRAMING DETAILS I
F.A.P. ROUTE 840 (ILL. 49)
SECTION 122 VBR
VERMILION COUNTY

SCALE: VERT. HORIZ. AS SHOWN — DRAWN BY E.M.T.
DATE — CHECKED BY J.P.

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USER NAME = Steven.Wood	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/12/2024	DATE -	REVISED -	

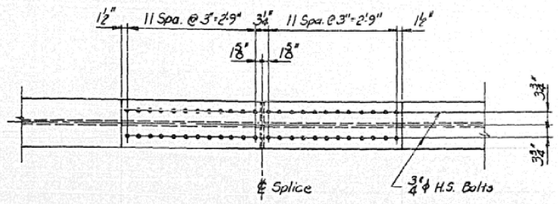
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

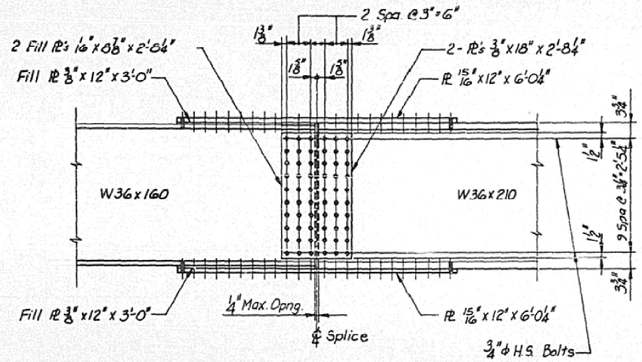
AS-BUILT PLANS
LOCATION #9 S.N. 092-0101

SCALE: NONE | SHEET 4 OF 6 SHEETS | STA. | TO STA.

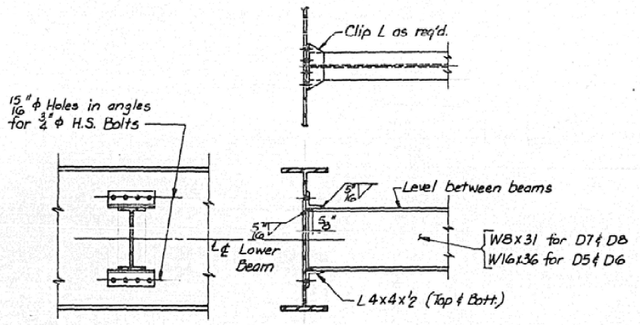
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	47
* DOUGLAS & VERMILION		CONTRACT NO. 70G13		
	ILLINOIS	FED. AID PROJECT		

AS–BUILT PLANS FOR S.N. 092–0101
FOR INFORMATION ONLY



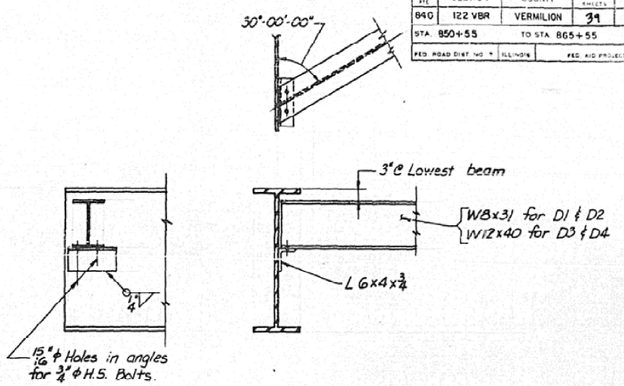


TYPICAL SPLICE DETAIL



TYPICAL INTERIOR DIAPHRAGM DETAIL

34	D5	Required
51	D6	Required
2	D7	Required
3	D8	Required



TYPICAL END DIAPHRAGM DETAIL

4	D1	Required
6	D2	Required
8	D3	Required
12	D4	Required

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	122 VBR	VERMILION	39	26
STA. 850+55		TO STA. 865+55		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

INTERIOR BEAM MOMENT TABLE

	0.5 Sp.1	0.4 Sp.2	PIER 3	0.5 Sp.3	PIER 4	0.6 Sp.4	0.5 Sp.5
Is (in⁴)	843	9750	13200	9750	13200	9750	3990
Ic (in⁴)		23107		23107		23107	
Ss (in³)	81.6	542	719	542	719	542	269
Sc (in³)		757		757		757	
M@ (k/l)	0.617	0.772	0.772	0.772	0.772	0.772	0.880
M@ (ft-k)	46.05	474.14	1093.09	501.68	1101.75	483.30	277.94
fs non comp(ksi)	6.77	10.43	18.24	11.10	18.38	10.70	12.40
S.@ (k/l)		0.193	0.193	0.193	0.193	0.193	
Ms @ (l.k)		138.55	220.73	176.53	222.26	141.08	
M L (l.k)	176.09	1282.62	1049.14	1436.67	1052.68	1291.94	617.39
M Imp (l.k)	52.82	301.43	233.96	303.16	234.76	303.59	182.11
Total M comp(l.k)	228.91	1722.60	1503.83	1916.36	1509.28	1736.61	799.11
fs comp (ksi)	33.66	27.31	25.10	30.38	25.19	27.53	35.65
fs TOTAL (ksi)	40.43	37.80	43.34	41.48	43.57	38.23	48.05
VR (k)		42.30		40.0		42.3	

Is and Ss are the moment of inertia and section modulus of the steel section used in computing fs TOTAL
Ic and Sc 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.
Load factors 1.3 [D.L. + 5/3 (L.L.)] have been used to compute moments.

INTERIOR BEAM REACTION TABLE

	BENT 1	BENT 2			PIER 3	PIER 4	BENT 5			BENT 6
		SPAN 1	SPAN 2	TOTAL MAX			SPAN 4	SPAN 5	TOTAL MAX	
R @	5.81	5.81	23.96	29.77	86.94	87.29	24.18	15.14	39.32	15.14
RS @	1.80	1.80	6.42	8.22	21.19	21.27	6.47	4.25	10.72	4.25
R L	2.175	2.175	38.11	38.11	57.40	57.48	37.94	30.92	37.94	30.92
R Imp	6.53	6.53	8.99	8.99	12.80	12.82	8.96	3.15	8.96	9.15
R TOTAL	35.89	35.89	77.48	85.09	178.33	178.86	77.55	59.46	96.94	59.46

REVISIONS	
NAME	DATE

ILLINOIS DIVISION OF HIGHWAYS
FRAMING DETAILS II
F.A.P. ROUTE 840 (ILL. 49)
SECTION 122 VBR
VERMILION COUNTY
SCALE: VERT. NONE HORIZ.
DRAWN BY E.M.T.
DATE
CHECKED BY J.P.

MODEL: $MODELNAME$
FILE NAME: pw:\\bbsharepw.bentley.com:PWIDOT\Documents\IDOT Offices\District 5\ORD Projects\D570G13\CADD\stat\CADSheets\D570G13-Sht-Ha_Built.dgn

USER NAME = Steven.Wood	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/12/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #9 S.N. 092-0101

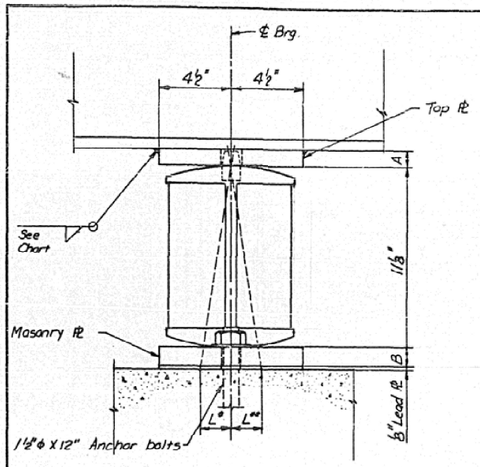
SCALE: NONE | SHEET 5 OF 6 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	48
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
	ILLINOIS	FED. AID PROJECT		

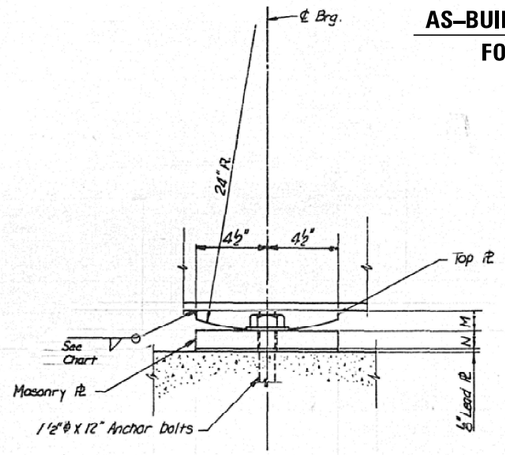
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	122 VBR	VERMILION	34	27
STA. 850+55		TO STA. 865+55		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

AS-BUILT PLANS FOR S.N. 092-0101

FOR INFORMATION ONLY



ELEVATION



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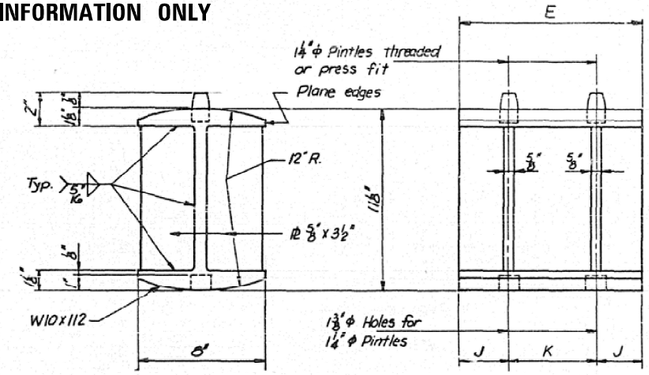
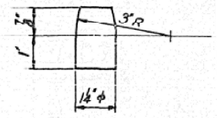
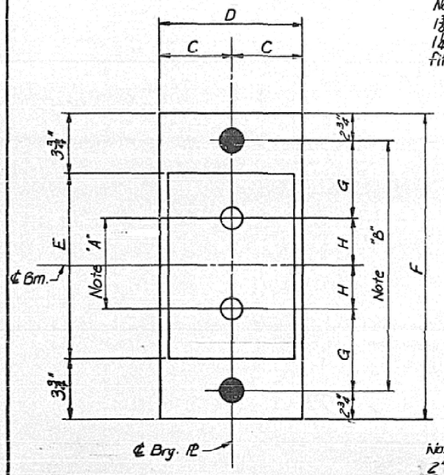


ROCKER DETAIL



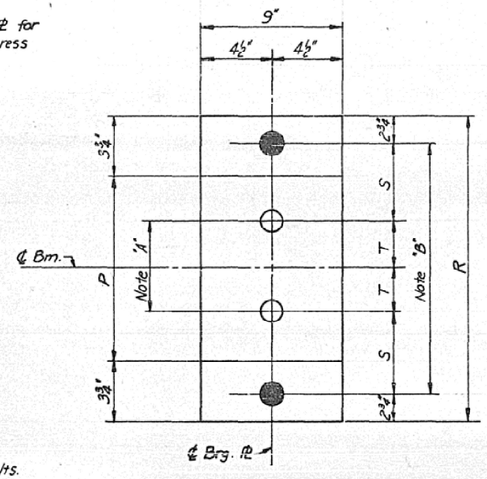
PINTLE



Note "A"
1⅜"ϕ Holes - 1" deep in top ℞ for 1¼"ϕ Pintles. Thread or press fit pintles in bottom ℞.

Note "B"
2"ϕ Holes for 1½"ϕ Anchor Bolts.
5"x 3"x 3" ℞ Washers under nut

PLAN



PLAN

EXPANSION BEARING

FIXED BEARING

EXPANSION BEARINGS

LOCATION	MASONRY ℞	TOP ℞	A	B	C	D	E	F	G	H	J	K	WELD
Bent 2 Span 1	℞ 14"x 9"x 15"	℞ 1"x 9"x 7½"	1"	1¼"	4½"	9"	7½"	17"	4"	1¾"	2"	3½"	⅜"
Bent 2 Span 2	℞ 1⅜"x 10"x 21"	℞ 1"x 9"x 13½"	1"	1⅜"	5"	10"	13½"	23"	5½"	3¼"	3½"	6½"	⅝"
Pier 3	℞ 2⅝"x 10"x 21"	℞ 1⅜"x 9"x 13½"	1⅜"	2⅝"	5"	10"	13½"	23"	5½"	3¼"	3½"	6½"	⅝"
Bent 5 Span 4	℞ 1⅜"x 10 x 21"	℞ 1"x 9"x 13½"	1"	1⅜"	5"	10"	13½"	23"	5½"	3¼"	3½"	6½"	⅝"
Bent 5 Span 5	℞ 14"x 9"x 19"	℞ 1"x 9"x 11½"	1"	1¼"	4½"	9"	11½"	21"	5"	2¾"	3"	5½"	½"

FIXED BEARINGS

LOCATION	MASONRY ℞	TOP ℞	M	N	P	R	S	T	WELD
Bent 1	℞ 14"x 9"x 15"	℞ 1"x 9"x 7½"	1"	1¼"	7½"	17"	4"	1¾"	⅜"
Pier 4	℞ 2⅝"x 9"x 21"	℞ 1⅜"x 9"x 13½"	1⅞"	2⅝"	13½"	23"	5½"	3¼"	⅝"
Bent 6	℞ 1¼"x 9"x 19"	℞ 1"x 9"x 11½"	1"	1¼"	11½"	21"	5"	2¾"	½"

NOTES ON SETTING OF ANCHOR BOLTS AT EXP. BRGS.

a.) L* (Side of brg. away from fixed brg.) L* = ⅛" per each 100' of expansion for every 15° fall below the normal temp. of 50° F.
L** (Side of brg. toward fixed brg.) L** = 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 L* or L** determined, holes shall be drilled and anchor bolts shall be grouted in place. All fixed anchor bolts may be built into the masonry.

REVISIONS	
NAME	DATE
DATE	

ILLINOIS DIVISION OF HIGHWAYS
BEARING DETAILS
F.A.P. ROUTE 840 (ILL. 49)
SECTION 122 VBR
VERMILION COUNTY

SCALE: VERT. NONE HORIZ. DRAWN BY E.M.T.
CHECKED BY J.P.

MODEL: SMODELNAMES
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USER NAME = Steven.Wood	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -
PLOT DATE = 8/12/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #9 S.N. 092-0101

SCALE: NONE | SHEET 6 OF 6 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	49
	* DOUGLAS & VERMILION		CONTRACT NO. 70G13	
	ILLINOIS	FED. AID PROJECT		

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
143 BR-1	DOUGLAS	43	19

SHEET NO. 1
18 SHEETS

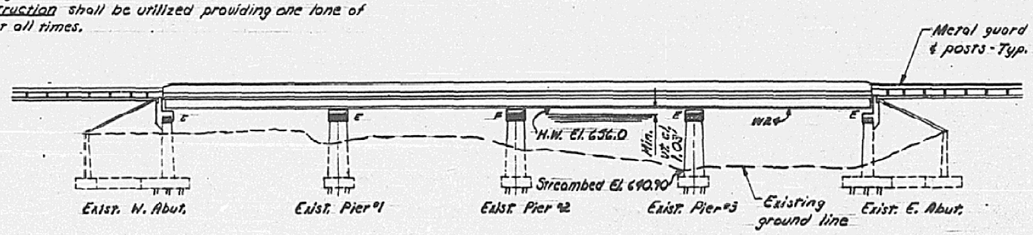
Bench Mark: Chiseled "D" on S.W. wing wall of bridge elevation 659.98.

Existing Structure: #021-0018 Built in 1927 as S.B.I. Rte. 121, Sec. D-143B & widened in 1955 under Sec. 143-BY. 4-span RCDG, total length 174'-7⅜" Bk.-Bk. Abut. and width at 35'-8" out to out. Superstructure to be removed and replaced with a 4-span continuous steel W-Bm. Substructure shall be retained with appropriate rehabilitation.
No salvage.

Stage construction shall be utilized providing one lane of traffic at all times.

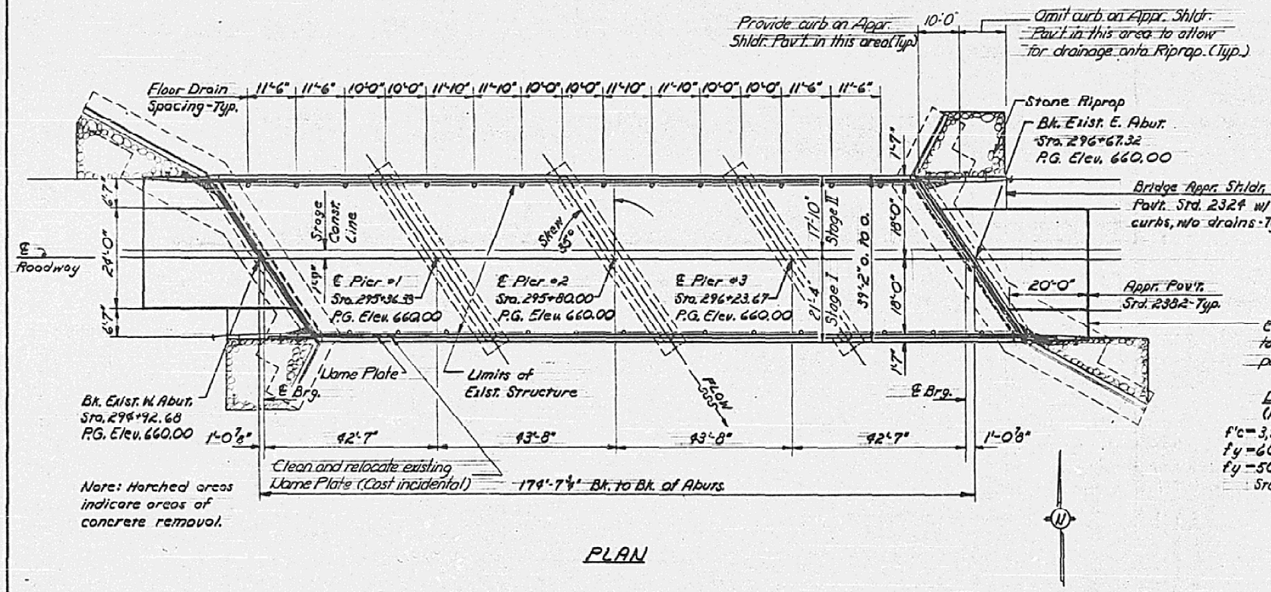
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS FOR S.N. 021-0018
FOR INFORMATION ONLY



ELEVATION

Note: For pavement removal see roadway plans.



PLAN

STATION 295+80.00
REBUILT 19 BY
STATE OF ILLINOIS
F.A.P. RT. 79 SEC. 143BR-1
PROJECT BHF-79(16)
LOADING HS 20
STR. NO. 021-0018

NAME PLATE
(See Std. 2113)

DESIGN STRESSES
(New Construction)
f'c = 3,500 p.s.i.
fy = 60,000 p.s.i. (Reinforcement)
fy = 50,000 p.s.i. (Structural Steel M222)

0.00%
Sta. 295+80.00
Elev. 660.00
PROFILE GRADE

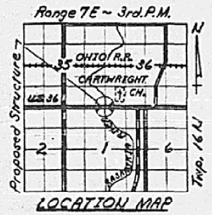
WATERWAY INFORMATION

Drainage Area = 129 sq. mi. Low Grade Elev. 659.38' @ Sta. 296+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	W.S. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	50	5832	1281	1281	656.01	0.28	0.24	656.29	656.25
Base	100	6609	1281	1357	656.58	0.66	0.28	657.24	656.86
Overtopping									
Max. Calc.	500	8362	1281	1818	657.76	1.04	0.84	658.79	658.60

LOADING HS20-44
Design Specifications: 1983 AASHTO

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



LOCATION MAP

GENERAL PLAN
U.S. ROUTE 36 OVER THE
KASKASKIA RIVER
F.A.P. ROUTE 79 ~ SECTION 143 BR-1
DOUGLAS COUNTY
STA. 295+80.00
STRUCTURE NUMBER 021-0018

DESIGNED	Robt T Bo	
CHECKED	Fred E Ahr	
DRAWN	WC	
CHECKED	RTB	2443

EXAMINED March 15, 1985
James J. Rautmann
DIRECTOR OF BRIDGE DESIGN
PASSED
James J. Rautmann
ENGINEER OF BRIDGES AND STRUCTURES
APPROVED
DIRECTOR OF HIGHWAYS

REGISTERED PROFESSIONAL ENGINEER
STATE OF ILLINOIS
2443

USER NAME = Steven.Wood	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/12/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #10 S.N. 021-0018

SCALE: NONE | SHEET 1 OF 5 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	50
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
	ILLINOIS	FED. AID PROJECT		

MODEL: $MODELNAME
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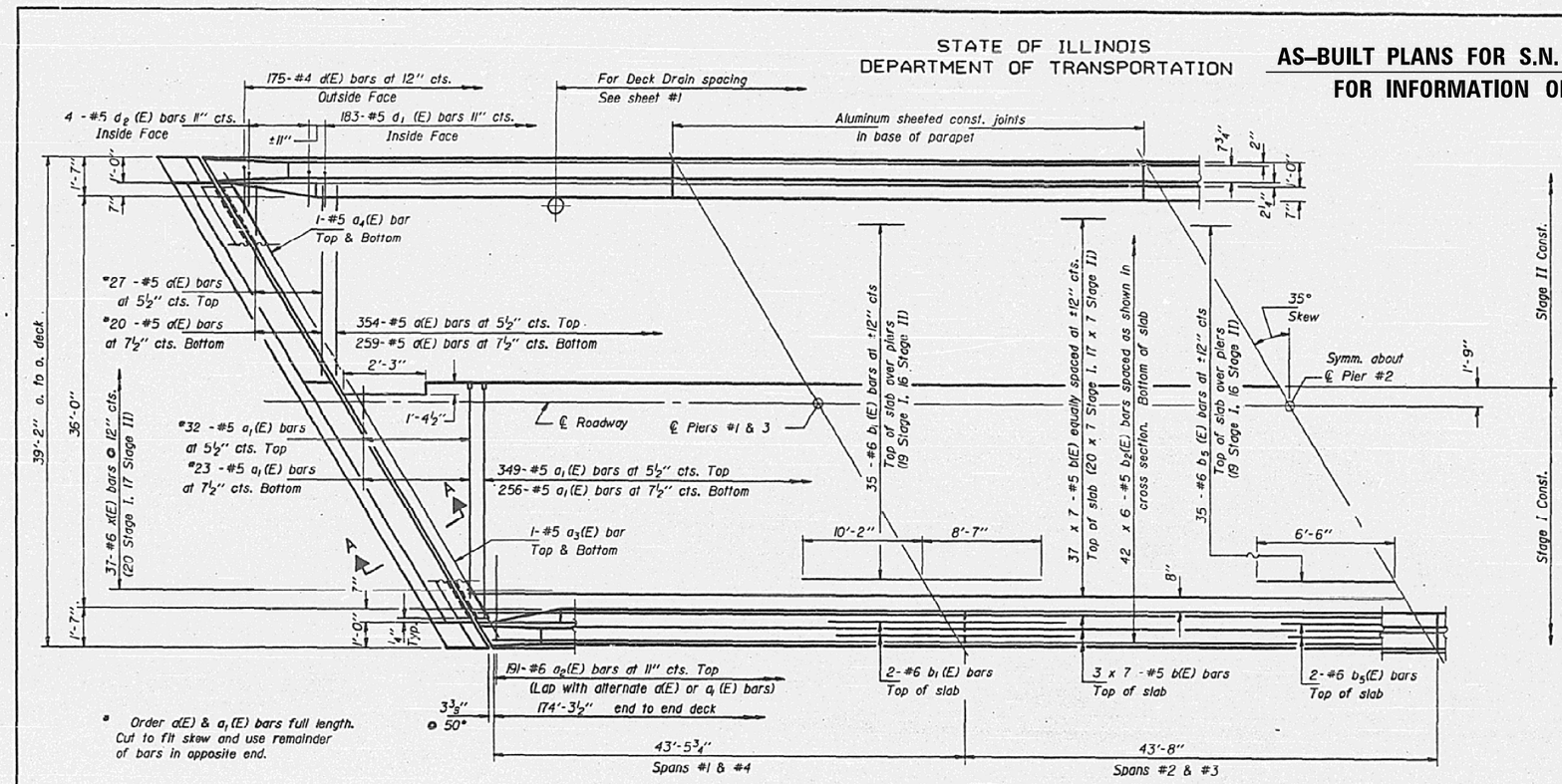
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

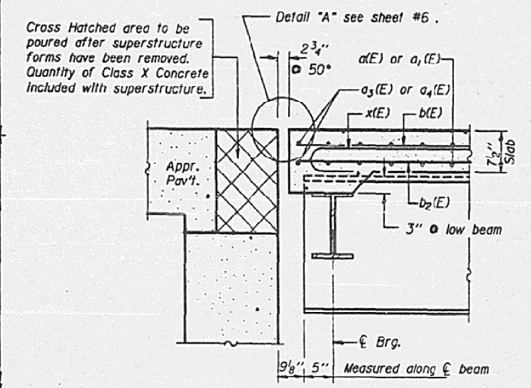
AS-BUILT PLANS FOR S.N. 021-0018
FOR INFORMATION ONLY

		COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 5
F.A.P. 79	43 M	DOUGLAS	43	25	18 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	CONTR. NO. PROJECT-			

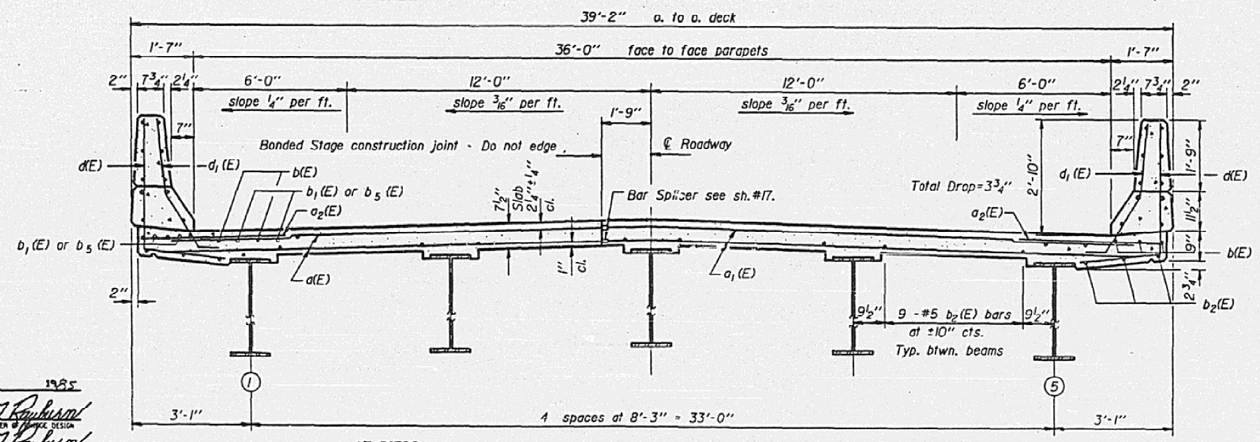


* Order d(E) & a_1(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

HALF PLAN



SECTION A-A



AT PIERS NEAR MIDSPANS 1 or 4

CROSS SECTION
(Looking East)

Notes: See sheet #6 for superstructure details and Bill of Material.
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.

MIN. BAR LAPS

#5 Bar = 1'-8"

DESIGNED	Robert T. Bono
CHECKED	Frank E. Nunn
DRAWN	J.T.Downing
CHECKED	RTB

March 15, 1985
EXAMINED James T. Rayburn ENGINEER OF BRIDGE DESIGN
PASSED James T. Rayburn ENGINEER OF MISCELLANEOUS STRUCTURES
APPROVED DIRECTOR OF HIGHWAYS

S-1-R(>15°) 12-1-83

SUPERSTRUCTURE
F.A.P. RT. 79 SECTION 143BR-1
DOUGLAS COUNTY
STATION 295+80.00

USER NAME = Steven.Wood	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/12/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #10 S.N. 021-0018

SCALE: NONE | SHEET 2 OF 5 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	51
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
	ILLINOIS	FED. AID PROJECT		

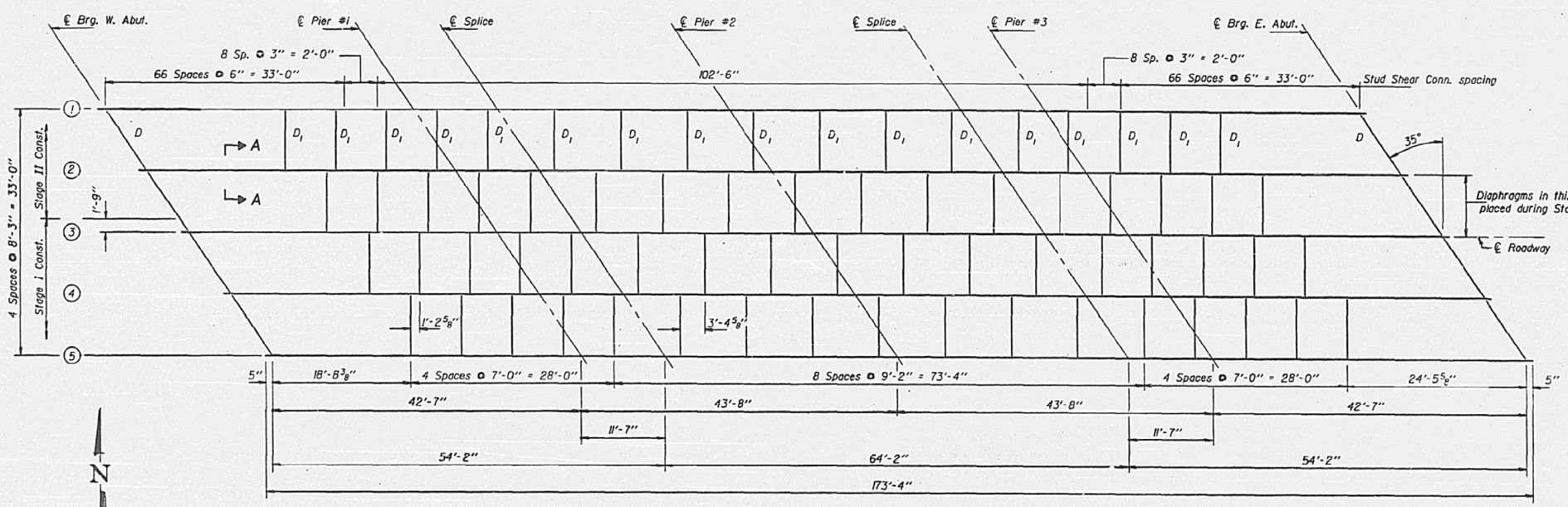
MODEL: $MODELNAME$
FILE NAME: pw:\\bdot-pw.bentley.com:PWBDOT\Documents\IDOT Offices\District 5\ORD Projects\D5Y0913\CADData\CADSheets\D5Y0913-Sh1H-As_Builts.dgn

AS–BUILT PLANS FOR S.N. 021–0018
FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

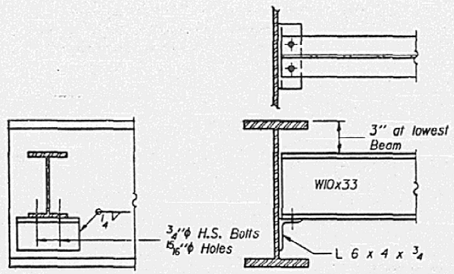
79	155R	DOUGLAS	42	5
1-7	1-1			

SHEET NO. 7
18 SHEETS

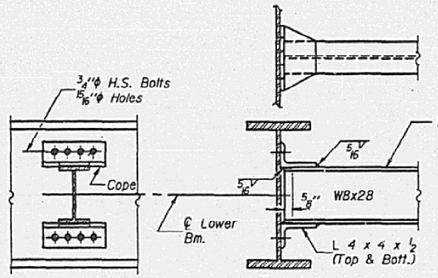


FRAMING PLAN

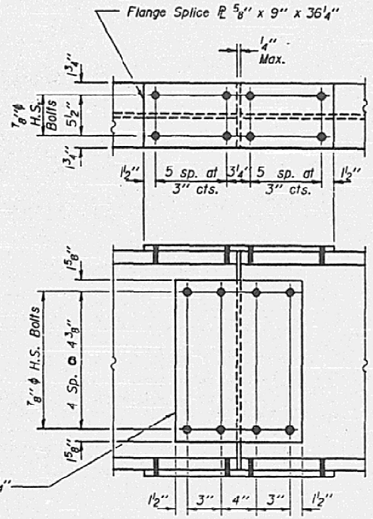
All Beams are W24x84



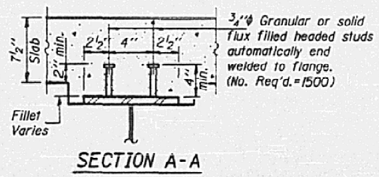
DIAPHRAGM D
8 Required



DIAPHRAGM D1
68 Required



SPLICE



SECTION A-A

Note: Two hardened washers shall be required over all 15/16"ϕ holes.

DESIGNED	Robt T Bone
CHECKED	Fred E Akers
DRAWN	J.T.Downing
CHECKED	RTB 2001

March 15 1981
EXAMINED James T Rayburn
ENGINEER OF BRIDGE DESIGN
PASSED James T Rayburn
ENGINEER OF BRIDGES AND STRUCTURES
APPROVED
DIRECTOR OF HIGHWAYS

I-2-D 8-30-80

STRUCTURAL STEEL
F.A.P. RT. 79 SECTION 143BR-1
DOUGLAS COUNTY
STATION 295+80.00

MODEL: $MODELNAME$
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USER NAME = Steven.Wood	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -	
PLOT DATE = 8/12/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #10 S.N. 021-0018

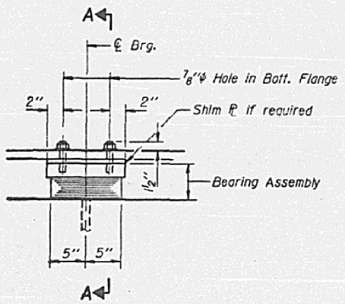
SCALE: NONE | SHEET 3 OF 5 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	52
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
	ILLINOIS	FED. AID PROJECT		

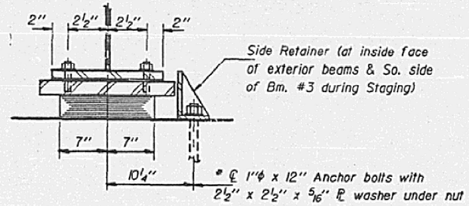
AS-BUILT PLANS FOR S.N. 021-0018
FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FEA 74		DOUGLAS	43	26	SHEET NO. 8
					18 SHEETS

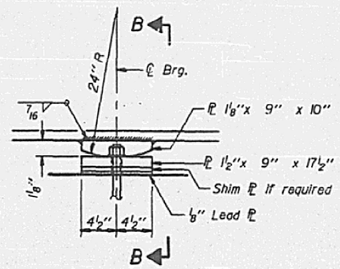


ELEVATION AT PIERS #1 & #3

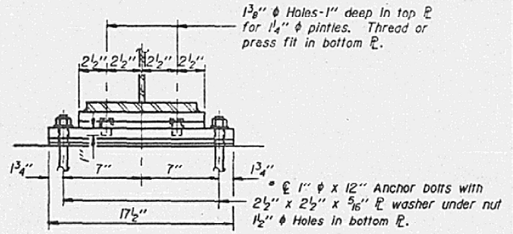


SECTION A-A

TYPE I ELASTOMERIC EXP. BRG.



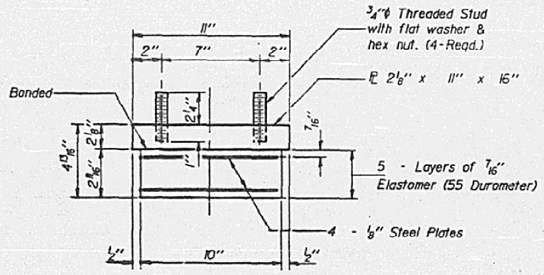
ELEVATION AT PIER #2



SECTION B-B

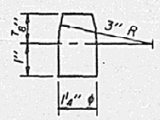
FIXED BEARING

* Notes: Anchor bolts at fixed bearings may be built into the masonry.
See sheet #16 for Anchor Bolt Installation.

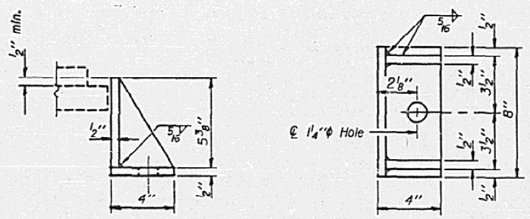


BEARING ASSEMBLY

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



PINTLE



SIDE RETAINER (26 Required)
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

DESIGNED	Robert T. Bro
CHECKED	Todd E. Alvin
DRAWN	J.T.Downing
CHECKED	R.T.B. 2ew

March 15 1985
EXAMINED James T. Rayburn — ENGINEER OF ROADWAY DESIGN
PASSED James T. Rayburn — ENGINEER OF BRIDGES AND STRUCTURES
APPROVED — DIRECTOR OF HIGHWAYS

I-2-E1 12-1-83

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	10

BEARINGS
F.A.P. RT. 79 SECTION 143BR-1
DOUGLAS COUNTY
STATION 295+80.00

MODEL: $MODELNAME$
FILE NAME: pw://ildot-pw.bentley.com:PWIDOT/Documents/IDOT Offices/District 5/ORD Projects/D570G13/CADData/CADsheets/D570G13-sht-As_Builts.dgn

USER NAME = Steven.Wood	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/12/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #10 S.N. 021-0018

SCALE: NONE | SHEET 4 OF 5 SHEETS | STA. | TO STA.

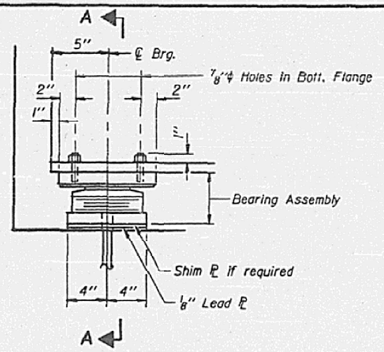
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	53
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
		ILLINOIS FED. AID PROJECT		

AS–BUILT PLANS FOR S.N. 021–0018
FOR INFORMATION ONLY

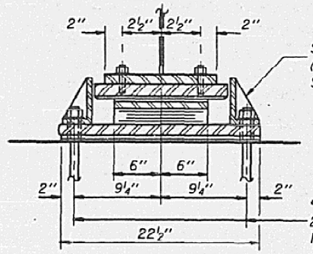
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 79	143BR-1	DOUGLAS	43	17
PROJECT NO.	CALL NUMBER	FED. AID PROJECT		

SHEET NO. 9
IB SHEETS



ELEVATION AT ABUTS.

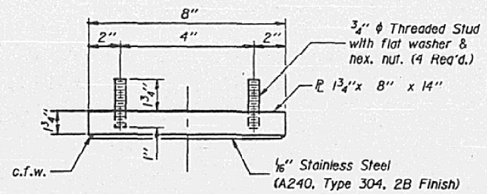


* ℄ 1" ϕ x 12" Anchor bolts with 2½" x 2½" x 5/16" PL washer under nut. 1½" ϕ Holes in bottom PL.

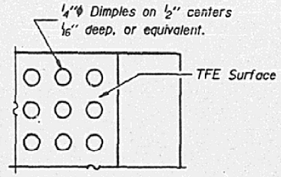
SECTION A-A

TYPE II TFE ELASTOMERIC EXP. BRG.

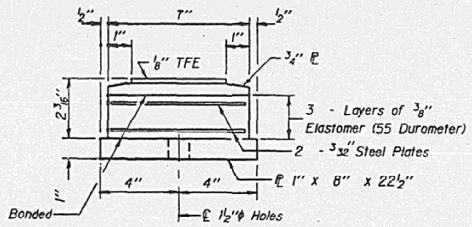
* Notes: Anchor bolts at fixed bearings may be built into the masonry.
See sheet #16 for Anchor Bolt installation.



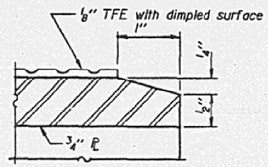
TOP BEARING ASSEMBLY



PLAN-TFE SURFACE



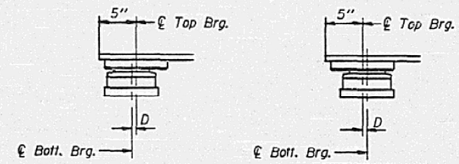
BOTTOM BEARING ASSEMBLY



SECTION THRU TFE

Note: The ⅛" 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 MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of ⅛" TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.



SETTING ANCHOR BOLTS AT EXP. BRG.

D=⅛" per each 100° of expansion for every 15° temp. change from the normal temp. of 50°F.

INTERIOR BEAM MOMENT TABLE				
	.4 Sp.1 & .6 Sp.4	Pier 1 & 3	.5 Sp.2 & 3	Pier 2
Is (in.4)	2370	2370	2370	2370
Ic (in.4)	7659			
Ss (in.3)	196	196	196	196
Sc (in.3)	315			
Z (in.3)		224		
ℓ (K/l)	.884	1.254	1.254	1.254
MP ℓ (1K)	123	233	91	183
sP ℓ (K/l)	.370			
Ms ℓ (1K)	57			
ML (1K)	330	193	225	190
M Imp. (1K)	98	57	66	56
5/3 (ML+I) (1K)	714	417	486	409
Ma (1K)	1162	845	750	770
Mu (1K)	1845	934		
fs ℓ non-comp (ksi)	7.5	12.5	5.6	11.2
fs ℓ (comp) (ksi)	2.2			
fs 5/3(ℓ+I) (ksi)	27.2	22.3	29.8	25.0
fs (Overload) (ksi)	36.9	34.8	35.4	36.2
fs (Total) (ksi)		45.3 *	46.0 **	47.1 **
VR (K)	47.4			

* Compact
** Braced non-compact

INTERIOR BEAM REACTION TABLE			
	Abuts.	Pier 1 & 3	Pier 2
R ℓ (K)	21.2	60.7	52.5
R L (K)	41.0	49.3	49.1
Imp. (K)	12.2	14.6	14.5
R (Total) (K)	74.4	124.6	116.1

Is and Ss are the moment of inertia and section modulus of the steel section used in computing fs (Total and Overload).
Ic and Sc are the moment of inertia and section modulus of the composite section used in computing fs (Total and Overload).
VR is the maximum ℓ + impact shear range in span.
Z is the plastic section modulus used to determine the Fully Plastic Moments in the non-composite areas.
The Fully Plastic Moment capacity (Mu) is computed according to AASHTO 1.7.59(A) & 1.7.62(A).
fs (Total) is the sum of the stresses due to 1.3 [MP ℓ + 5/3 (ML + I)]
fs (Overload) is the sum of the stresses due to MP ℓ + 5/3 (ML + I).

TOP OF FLANGE ELEVATIONS ***

Bm. \ Loc.	Abutments, Pier 1, 2, 3 & Splice
1 & 5	658.959
2 & 4	659.111
3	659.24

*** For fabrication only

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type II	Each	10

DESIGNED	Robert T. Doro	March 15 1985
CHECKED	Jared E. Ahrens	EXAMINED James T. Rayburn ENGINEER OF BRIDGE DESIGN
DRAWN	J.T.Downing	PASSED James T. Rayburn ENGINEER OF BRIDGES & STRUCTURES
CHECKED	RTB 2011	APPROVED DIRECTOR OF HIGHWAYS

I-2-E2 12-1-83

BEARINGS
F.A.P. RT. 79 SECTION 143BR-1
DOUGLAS COUNTY
STATION 295+80.00

MODEL: $MODELNAME$
FILE NAME: pw:\\ilodwpw.bentley.com:PWDOTDocuments\DOT Offices\District 5\ORD Projects\D5T0G13\CADData\CADSheets\D5T0G13-bridA-s_Bullts.dgn

USER NAME = Steven.Wood	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/12/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

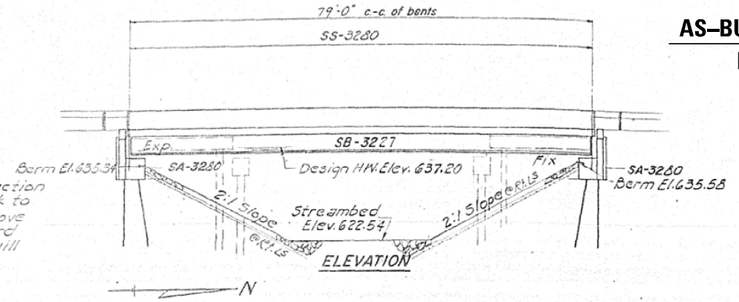
AS-BUILT PLANS
LOCATION #10 S.N. 021-0018
SCALE: NONE | SHEET 5 OF 5 SHEETS | STA. | TO STA.

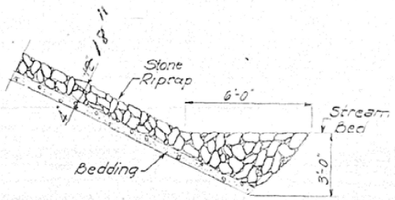
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	54
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
	ILLINOIS	FED. AID PROJECT		

B. M.- Chiseled square on southeast wingwall of bridge. Elev. 639.45

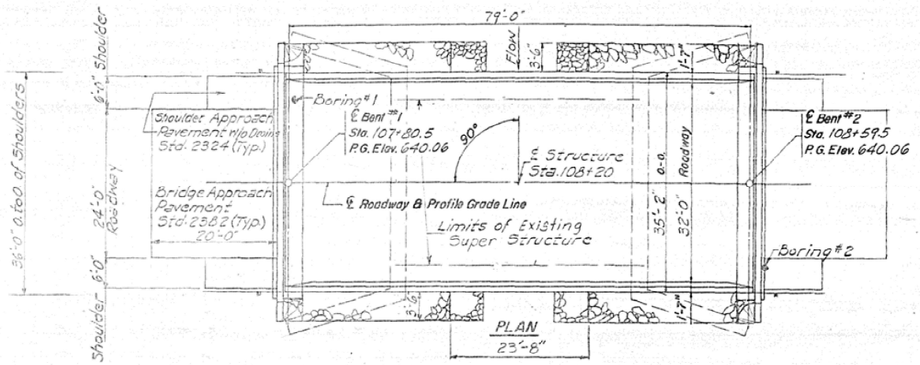
Existing Structure- No. 021-0032. Built as S.A. Route 8 Section 22 B. M.F.T. at Station 108+20 in 1944. 43'-8" back to back of abuts. RC girders. Contractor shall remove existing structure and replace it with Standard Steel Beam Bridge, split thru abuts. The road will be closed during construction.

Salvage - No salvage



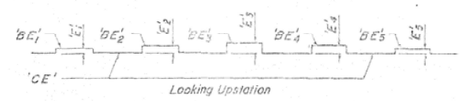


STONE RIPRAP ANCHOR DETAIL



BEARING CAP ELEVATION DATA

Bent	'CE'	Bm. #1		Bm. #2		Bm. #3		Bm. #4		Bm. #5	
		'BE1'	'E1'	'BE2'	'E2'	'BE3'	'E3'	'BE4'	'E4'	'BE5'	'E5'
#1	636.28	636.28	1'8"	636.50	2'8"	636.61	4'4"	636.50	2'8"	636.38	1'8"
#2	636.50	636.63	1'8"	636.74	2'8"	636.86	4'4"	636.74	2'8"	636.63	1'8"



WATERWAY INFORMATION

Drainage Area = 2100 Sq. Miles Low Grade Elev. = 639.4 ± At Sta.

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Natural H.W.E.	Head-Ft. Exist.	Head-Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	50	2707	455	710	637.2	0.86	0.35	638.06	637.55
Base	100	3092	455	710	637.6	1.12	0.46	638.72	638.06
Overtopping									
Max. Calc.	300	3973		710	638.2		0.76		638.96

PILE DATA

Bent	#1	#2
Type Metal Pile Shells	Class B	Class B
Capacity - Ton	50	50
Estimated Length - Feet	32	32
Number Required	9	8
Test Piles	0	1

Do not overdrive piles

8-30-82
SGP-1 (7-1-81)

Illinois Department of Transportation

August 24, 1983
APPROVED Carl E. Thunstrom
Engineer of Bridges and Structures

P.M.P. ALB DNH

STATION 108+20
BUILT 1983 BY
STATE OF ILLINOIS
F.A. ROUTE 820 SECTION 22 B.R.
F.A. PROJECT BRF-820(1)
LOADING HS20
STR. NO. 021-0049

LETTERING FOR NAME PLATE
Locate Name Plate at Southeast Corner of Bridge (See Standard 2113)

DESIGN SPECIFICATIONS

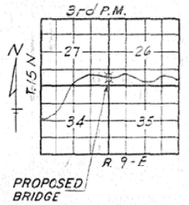
1977 AASHTO & 1978 Thru 1982 Interims
HS 20 - 44 Loading. Load Factor Design.

0.00%

Sta. 107+50.00 Elev. 640.06

Sta. 108+90.00 Elev. 640.06

PROFILE GRADE



LOCATION SKETCH

CALCULATED WEIGHT of STRUCTURAL STEEL

Standard	SB 3227	74674 lbs.
Standard	SD 3201	1166 lbs.
Standard	SD 3202	1170 lbs.
Total		77010 lbs.

AS-BUILT PLANS FOR S.N. 021-0049
FOR INFORMATION ONLY

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 820	22BR	Douglas	22	8
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

SHEET NO. 1
8 SHEETS

GENERAL NOTES

See Proposal for Boring Data.
Class X Concrete shall be used throughout.
Fasteners shall be high strength bolts, (AASHTO M 164, Type 3) Bolts ⅞" ϕ, open holes 15/16" ϕ, unless otherwise noted.
All structural steel shall be AASHTO M 222 except expansion joint angles and attached bars which shall be AASHTO M 183.
Expansion joint angles and attached bars shall be shop painted with two coats of basic lead silica chromate paint.

Field welding of construction accessories will be permitted on the top flange of beams only.
Anchor bolts shall be set before bolting diaphragms over supports.
The Contractor shall drive one Metal Pile Shells 14" test pile in a permanent location at Bent #2 as directed by the Engineer before ordering the remaining piles.
The main beams shall conform to the Supplemental Requirements for Notch Toughness Zone 2.
Reinforcement bars shall conform to the requirements of A.A.S.H.T.O. M-31 or M-53 Grade 60.
The structural steel bearing plates of the Elastomeric Bearing Assembly shall conform to the requirements of AASHTO M 222.
Layout of stone riprap may be varied in the field to suit ground conditions as directed by the Engineer.
Final coat of paint for Floor Drains shall be maroon.
All contact surfaces of joints for the diaphragms shall be free of paint or lacquer.
AASHTO M 222 structural steel shall not be painted except, that for a distance of three times the depth of the beams (but not exceeding 10 feet) each way from deck joints, the AASHTO M 222 structural steel shall be cleaned and given one coat of the basic lead silica chromate primer and maroon field coat. Both coats to be applied in the shop with spot painting only in the field.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub. Piers	Sub. Abuts.	Total
Removal of Existing Structures	Each				1
Structure Excavation	Cu. Yd.			85	85
Floor Drains	Each	8			8
Protective Coat	Sq. Yd.	351			351
Class X Concrete	Cu. Yd.	88.7		51.8	140.5
Preformed Joint Seal 4"	Lin. Ft.	35			35
F.O.E. Struct. Steel	L. Sum	1			1
Stud Shear Connectors	Each	1060			1060
Elast. Bearing Assy. T1	Each			5	5
Reinforcement Bars	Lbs.	8570		4540	13110
Rein. Bars (Epoxy Cld.)	Lbs.	11740			11740
Metal Pile Shells 14"	Lin. Ft.			544	544
Test Pile Metal Shells	Each			1	1
Name Plates	Each			1	1
Stone Riprap	Sq. Yd.			329	329
Channel Excavation	Cu. Yd.				560

INDEX OF SHEETS

8 - 1	General Plan & Elevation
9 - 2	Top of Slab Elevations
10 - 3	Standard SS-3280
11 - 4	Standard SB-3227
12 - 5	Standard SD-3201
13 - 6	Standard SD-3202
14 - 7	Standard SA-3280
15 - 8	Standard SX-1
	Standard
	Standard
	Standard

STANDARD BRIDGE
STEEL BEAMS 32' ROADWAY
GENERAL PLAN & ELEVATION
ILL ROUTE 130
OVER DEER CREEK
RT. F.A. 820 SEC. 22 BR
DOUGLAS COUNTY
STATION 108+20

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USER NAME = Steven.Wood	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -	
PLOT DATE = 8/12/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

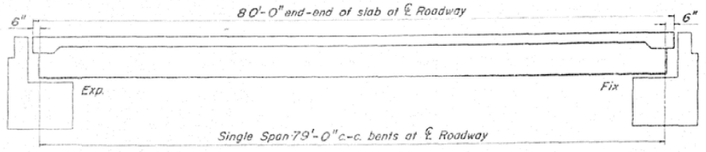
AS-BUILT PLANS
LOCATION #11 S.N. 021-0049

SCALE: NONE | SHEET 1 OF 4 SHEETS | STA. | TO STA.

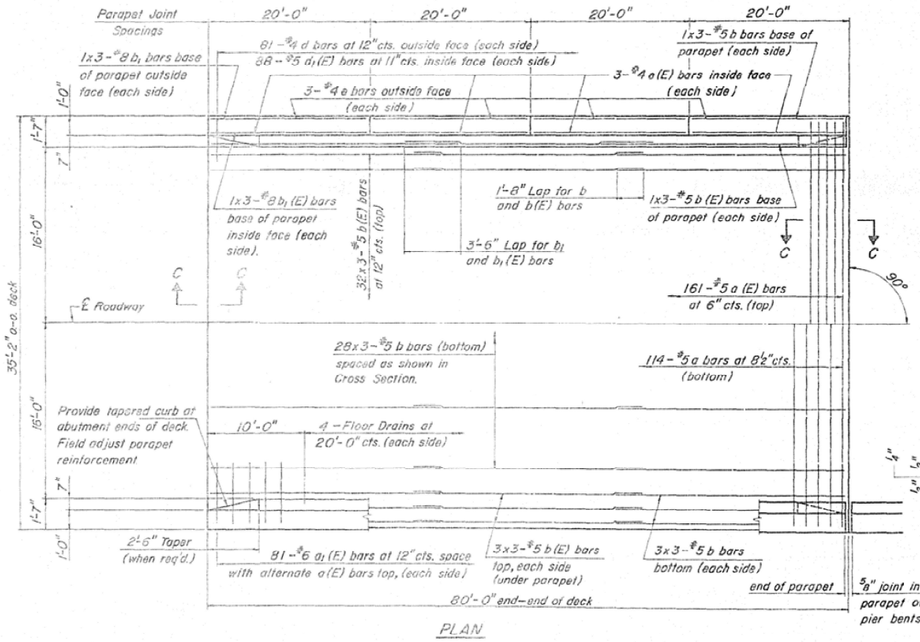
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	55
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
	ILLINOIS FED. AID PROJECT			

AS–BUILT PLANS FOR S.N. 021–0049

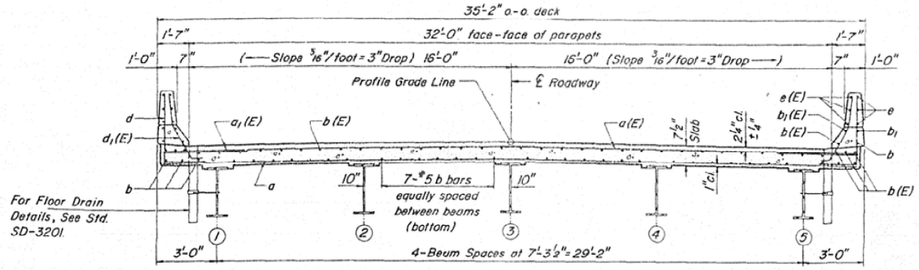
FOR INFORMATION ONLY



TYPICAL ELEVATIONS

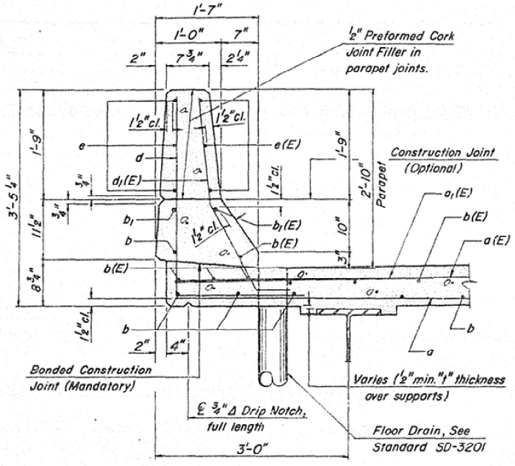


PLAN

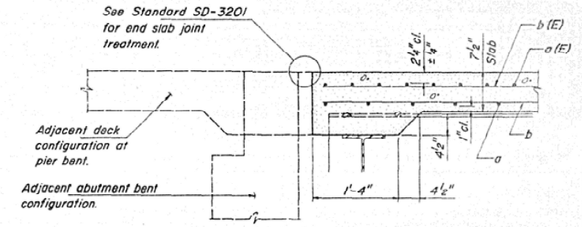


CROSS SECTION

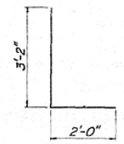
(Looking Upstation)



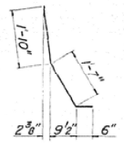
PARAPET SECTION



SECTION C-C



Bar d



Bar d_1(E)

BAR LIST FOR ONE SPAN

Bar	No.	Size	Length	Shape
a	114	#5	34'-7"	
a(E)	161	#5	34'-7"	
a_1(E)	162	#6	4'-0"	
b	108	#5	27'-8"	
b(E)	120	#5	27'-8"	
b_1	6	#8	28'-11"	
b_1(E)	6	#8	28'-11"	
d	162	#4	5'-2"	
d_1(E)	176	#5	3'-11"	
e	24	#4	19'-8"	
e(E)	24	#4	19'-8"	

Reinforcement bars designated (E) shall be epoxy coated. See Special Provisions.

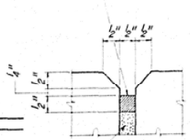
QUANTITIES FOR ONE SPAN

Class 'X' Concrete	88.7	Cu. Yds.
Reinforcement Bars	8570	Lbs.
Rein. Bars (Epoxy Coated)	11740	Lbs.
Floor Drains	8	Each
Protective Coat	351	Sq. Yds.

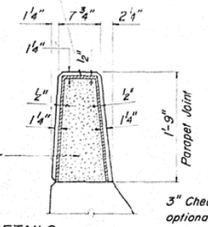
DESIGN STRESSES

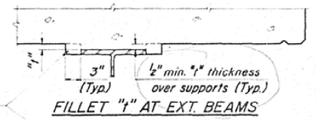
f'c = 3,500 psi

fy = 60,000 psi

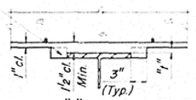


PARAPET JOINT DETAILS





FILLET "t" AT EXT. BEAMS



FILLET "t" AT INT. BEAMS

See Steel Framing Standards for Dead Load Deflection Diagram.

METHOD FOR DETERMINING FILLET HEIGHT "t"

After all structural steel has been erected, elevations of the top flanges of each beam shall be taken at intervals not to exceed 10 feet. From these elevations, subtract the increment of deflection for these points determined from the "Dead Load Deflection Diagram". The elevation so attained subtracted from the theoretical top of slab elevations over each beam minus the slab thickness equals the fillet height "t" above the top of the beam.

Bars indicated thus; 28 x 3 - #5 etc. indicates 28 lines of bars with 3 lengths per line.

Illinois Department of Transportation

APPROVED JULY 1, 1981

Engineer of Bridges and Structures

APPROVED JULY 1, 1981

Engineer of Design

STEEL BEAM BRIDGES
SUPERSTRUCTURE

32' RDWY.	80' SPAN	0° SKEW

STANDARD SS-3280

USER NAME = Steven.Wood	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/12/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #11 S.N. 021-0049

SCALE: NONE | SHEET 2 OF 4 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	56
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
	ILLINOIS | FED. AID PROJECT			

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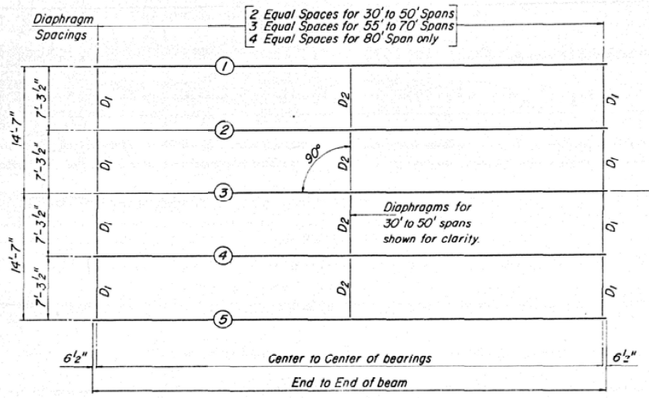
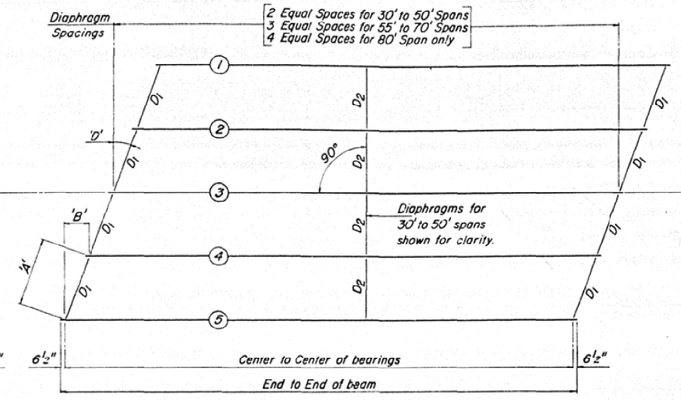
Span	Beam Size	Values for 'SD' Exp.	Values for 'SD' Fixed	Ctr.-Ctr. Bearings	End-End Beam	No. of Diaphragms D_1	No. of Diaphragms D_2	Stud Shear Connector Spacings a	b	c	d	e	Studs Per Line	Total Studs	Q Deflections ⅛ Pt.	Q Deflections ½ Pt.	Q Deflections ⅜ Pt.	Calculated Weight by 'D' 0°	5°	10°	15°	20°	25°	30°	Bearing Type Exp.	Bearing Type Fixed
30'	W27x84	3.357'	3.112'	28'-0"	29'-1"	8	4	NON-COMPOSITE																		
35'	W27x84	3.357'	3.112'	33'-0"	34'-1"	8	4	NON-COMPOSITE																		
40'	W27x84	3.357'	3.112'	38'-0"	39'-1"	8	4	12 - Spaces at 7"	12 - Spaces at 8"	12 - Spaces at 8"	12 - Spaces at 8"	12 - Spaces at 7"	2	610	.027'	.037'	.027'	19363	19371	19392	19429	19484	19557	19653	EX-II	FX-III
45'	W27x84	3.357'	3.112'	43'-0"	44'-1"	8	4	9 - Spaces at 6"	8 - Spaces at 8"	28 - Spaces at 10"	8 - Spaces at 8"	9 - Spaces at 6"	2	630	.043'	.060'	.043'	21463	21471	21492	21529	21584	21657	21753	EX-II	FX-III
50'	W27x84	3.357'	3.112'	48'-0"	49'-1"	8	4	12 - Spaces at 6"	15 - Spaces at 8"	16 - Spaces at 12"	15 - Spaces at 8"	12 - Spaces at 6"	2	710	.067'	.094'	.067'	23563	23571	23592	23629	23684	23757	23853	EX-III	FX-III
55'	W27x102	3.389'	3.144'	53'-0"	54'-1"	8	8	12 - Spaces at 6"	12 - Spaces at 8"	30 - Spaces at 10"	12 - Spaces at 8"	12 - Spaces at 6"	2	790	.079'	.110'	.079'	31204	31211	31233	31270	31324	31397	31493	EX-III	FX-III
60'	W27x114	3.405'	3.160'	58'-0"	59'-1"	8	8	18 - Spaces at 7"	8 - Spaces at 9"	30 - Spaces at 10"	8 - Spaces at 9"	18 - Spaces at 7"	2	830	.101'	.140'	.101'	37297	37305	37326	37363	37417	37491	37586	EX-III	FX-III
70'	W27x146	3.413'	3.168'	68'-0"	69'-1"	8	8	21 - Spaces at 7"	17 - Spaces at 9"	18 - Spaces at 12"	17 - Spaces at 9"	21 - Spaces at 7"	2	950	.139'	.195'	.139'	54051	54058	54080	54117	54171	54244	54340	EX-V	FX-V
80'	W27x178	3.449'	3.204'	78'-0"	79'-1"	8	12	21 - Spaces at 7"	19 - Spaces at 9"	25 - Spaces at 12"	19 - Spaces at 9"	21 - Spaces at 7"	2	1060	.196'	.274'	.196'	74674	74681	74703	74740	74793	74867	74962	EX-VI	FX-VI

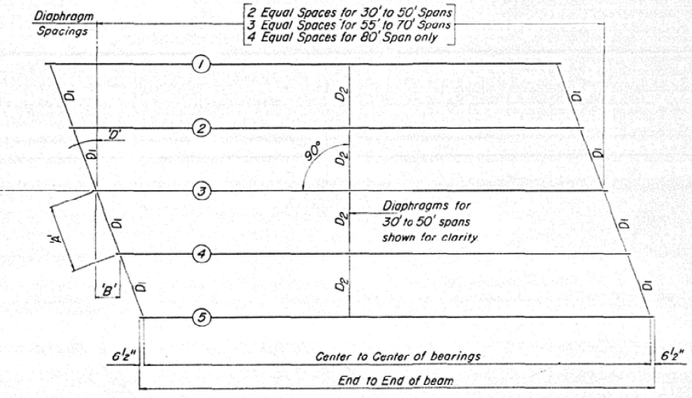


FRAMING PLAN (0° SKEW)



FRAMING PLAN (Lt. Fwd. Skew)

('D'=Designated Skew Angle.)



FRAMING PLAN (Rt. Fwd. Skew)

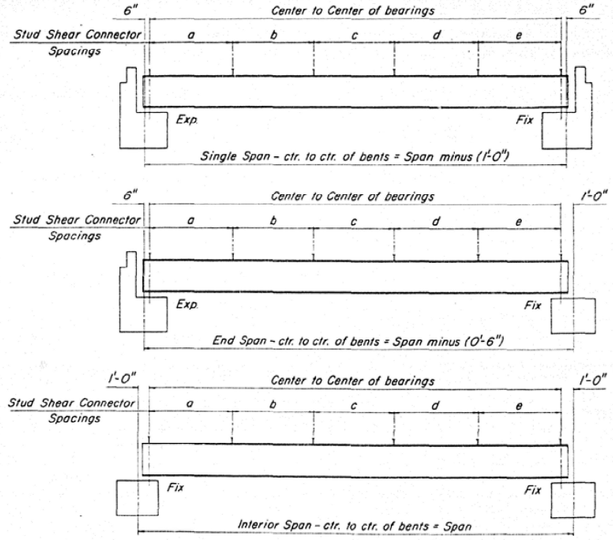
('D'=Designated Skew Angle.)

DIMENSION 'A' 'B' 'B'

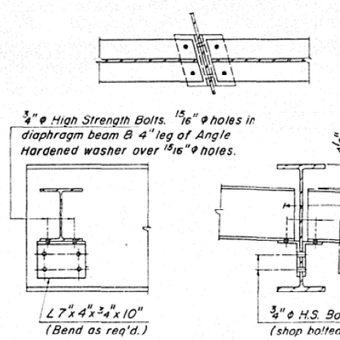
'D'	'A'	'B'
5°	7'-3 13/16"	7 9/8"
10°	7'-4 7/8"	1'-3 7/16"
15°	7'-6 9/16"	1'-11 7/16"
20°	7'-9 1/8"	2'-7 7/8"
25°	8'-0 9/16"	3'-4 13/16"
30°	8'-5 1/16"	4'-2 1/2"

DESIGN STRESSES

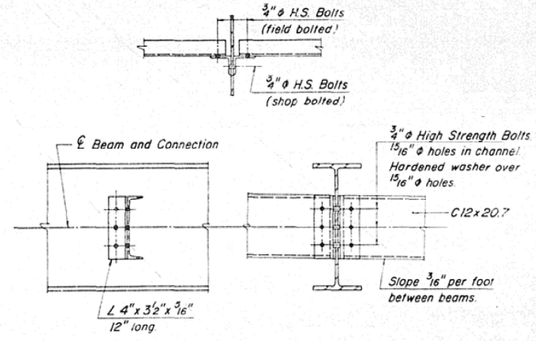
fy = 50,000 psi
n = 9 (Composite)



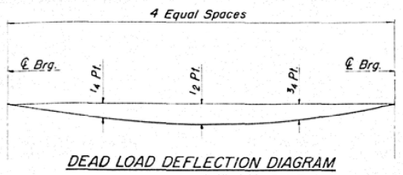
TYPICAL ELEVATIONS



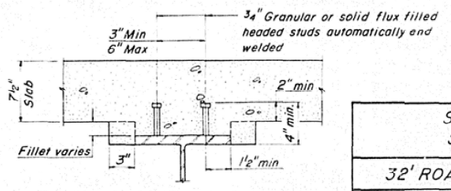
END DIAPHRAGM D_1



INTERIOR DIAPHRAGM D_2



DEAD LOAD DEFLECTION DIAGRAM



STUD SHEAR CONNECTOR DETAIL

Illinois Department of Transportation

APPROVED JULY 1, 1981
Engineer of Bridges and Structures
APPROVED JULY 1, 1981
Engineer of Design

ISSUED 7-1-81

STEEL BEAM BRIDGES STEEL BEAM DETAILS	
32' ROADWAY	W27 BEAMS
STANDARD SB-3227	

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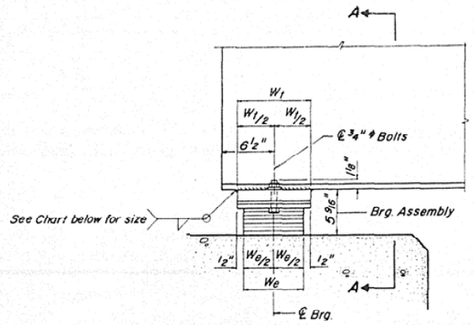
USER NAME = Steven.Wood	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -
PLOT DATE = 8/12/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

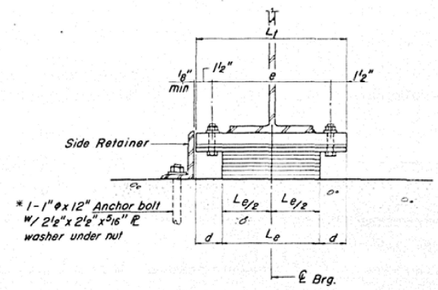
AS-BUILT PLANS
LOCATION #11 S.N. 021-0049

SCALE: NONE | SHEET 3 OF 4 SHEETS | STA. | TO STA.

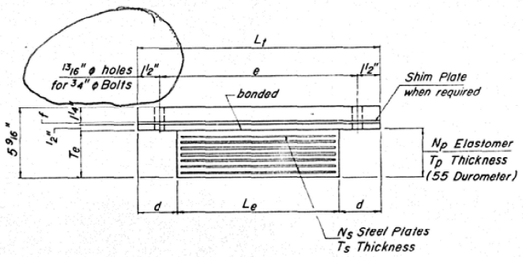
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	57
	* DOUGLAS & VERMILION		CONTRACT NO. 70G13	
		ILLINOIS FED. AID PROJECT		



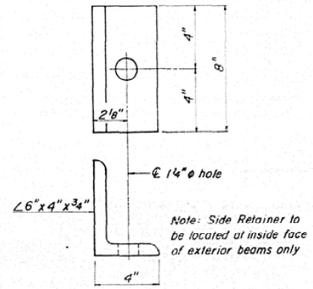
ELEVATION



SECTION A–A



BEARING ASSEMBLY

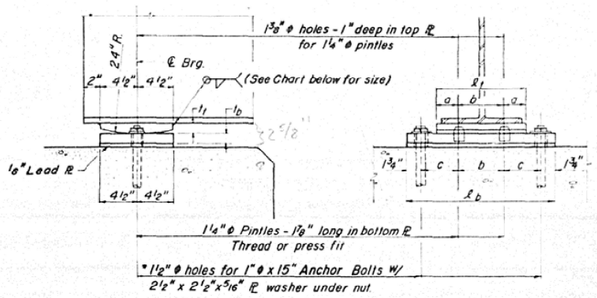


SIDE RETAINER

Brg. Type	Le	We	L1	W1	∅	Tp	Np	Ts	Ns	Te	d	e	f	Stl. Wt.	Tapered Top ℝ
EX-I	10"	7"	18"	8"	5/16"	3/8"	8	14ga	7	3 1/2"	4"	15"	5/16"	66 lbs.	Grades > 4.0%
EX-II	12"	7"	18"	8"	5/16"	3/8"	8	14ga	7	3 1/2"	3"	15"	5/16"	66 lbs.	Grades > 4.0%
EX-III	12"	9"	18"	10"	5/16"	3/8"	8	3/32"	7	3 5/8"	3"	15"	3/16"	76 lbs.	Grades > 2.5%
EX-IV	12"	9"	19"	10"	5/16"	3/8"	8	3/32"	7	3 5/8"	3 1/2"	16"	3/16"	80 lbs.	Grades > 2.5%
EX-V	12"	9"	21"	10"	3/8"	3/8"	8	3/32"	7	3 5/8"	4 1/2"	18"	3/16	89 lbs.	Grades > 2.5%
EX-VI	14"	10"	21"	11"	3/8"	7/16"	7	1/8"	6	3 13/16"	3 1/2"	18"	–	85 lbs.	Grades > 2.0%

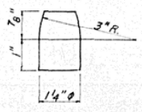
* Note: After beams have been erected, holes for Side Retainers shall be drilled and Anchor Bolts grouted in place.

TYPE EX EXPANSION BEARINGS



ELEVATION

SECTION



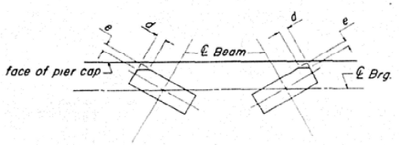
PINTLE

Brg. Type	ℓ1	ℓb	∅	lt	lb	a	b	c	Tot. Weight**
FX-I	8"	15 1/2"	3/16"	1 1/4"	1 1/4"	2"	4"	4"	94 Lbs.
FX-II	10"	17 1/2"	5/16"	1 1/4"	1 1/4"	2 1/2"	5"	4 1/2"	108 Lbs.
FX-III	11 1/2"	19"	5/16"	1 1/4"	1 1/4"	3"	5 1/2"	5"	118 Lbs.
FX-IV	13"	20 1/2"	3/8"	1 1/4"	1 1/4"	3 1/4"	6 1/2"	5 1/4"	129 Lbs.
FX-V	16"	23 1/2"	3/8"	1 1/4"	1 1/4"	4"	8"	6"	149 Lbs.

** Total weight of one assembly includes Top Plate, Bottom Plate, Anchor Bolts, Plate Washers, and Lead Plate.

NOTE: Anchor Bolts at fixed Brgs. may be built into the masonry or drilled and grouted into place after beams are set.

TYPE FX FIXED BEARINGS



BEARING CLIP DIM. (Bottom Plate)

Bearing	d	e
FX-IV	7/8"	1 2"
FX-V	2 3/8"	1 3/8"

Clip plates for 'D's ≥ 20°

NOTES

The calculated Stl. Wt., for the 1 1/4" plate and Shim ℝ (when req'd.), is to be included with the calculated weight of Structural Steel.

Provide Side Retainers, Plate washers, and Anchor Bolts at Expansion Abutments only. Cost is incidental.

For grades greater than shown in table, the top plate of the brg. shall be tapered to match grade. Maintain 1 1/4" thickness at ℄ of brg.

Illinois Department of Transportation

APPROVED JULY 1, 1981
Engineer of Bridges and Structures
APPROVED JULY 1, 1981
Engineer of Design

ISSUED 7-81

STEEL BEAM BRIDGES
EXPANSION AND FIXED BEARINGS
STANDARD SD-3202

MODEL: $MODELNAME$
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USER NAME = Steven.Wood	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/12/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #11 S.N. 021-0049

SCALE: NONE | SHEET 4 OF 4 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	58
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
	ILLINOIS FED. AID PROJECT			

ROUTE	SECT.	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 820	*	Douglas	167	61
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		

SHEET NO. 1
10 SHEETS

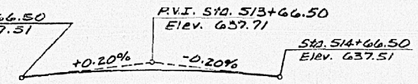
*Sec. 1-G-BR

BENCH MARK: Chiseled "a" Top of Southwest wing of bridge; Elev. 637.75

EXISTING STRUCTURE: Three-span continuous steel wide flange beam and concrete deck superstructure with pile bent piers and spill-thru abutments. 24'-0" o.to o. Existing deck, 127'-5" Bk. to Bk. abutments. Replace existing superstructure with a new superstructure having 32'-0" clear roadway. Existing piers and abutments to be widened to accommodate the new, widened superstructure.

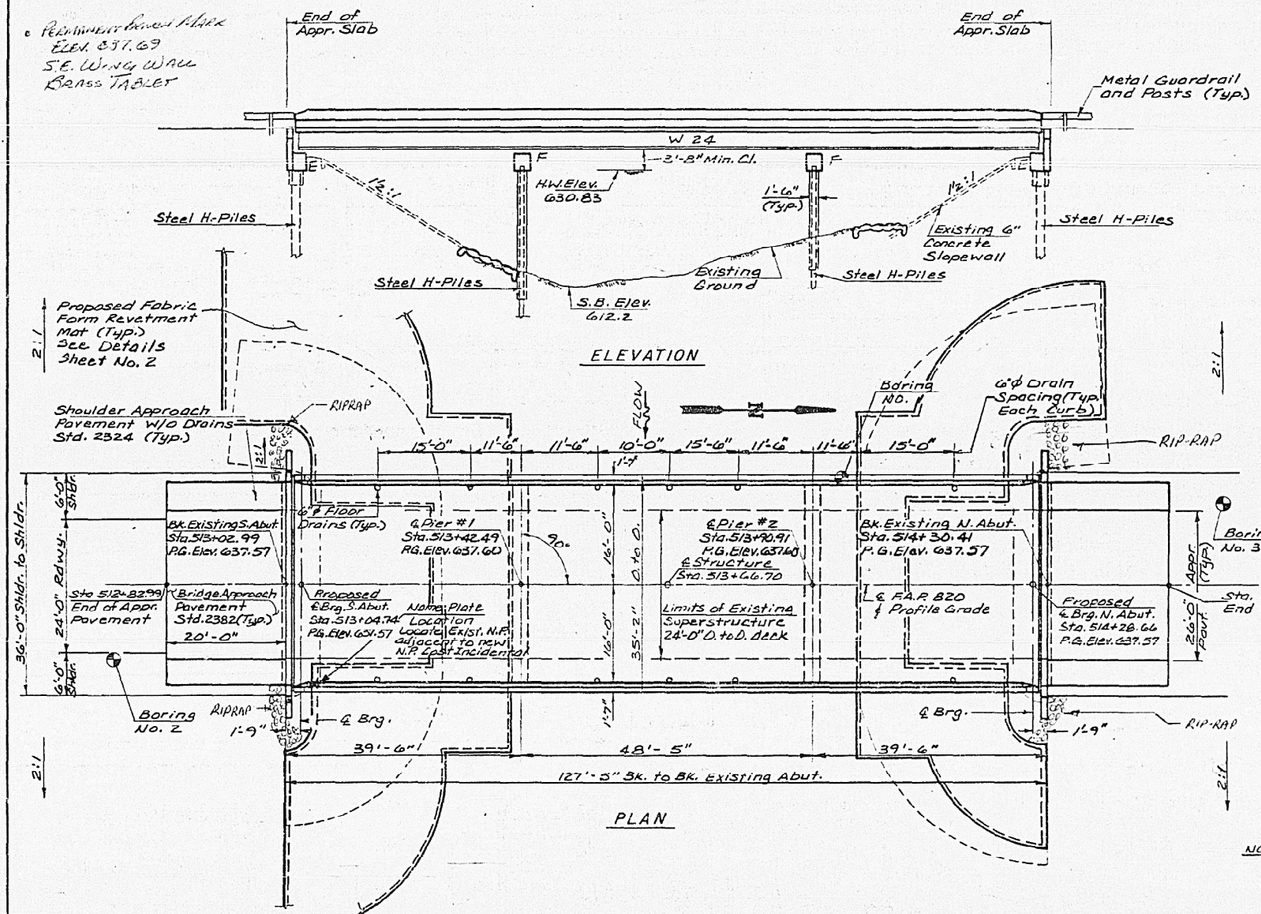
Traffic to be detoured during reconstruction.

AS-BUILT PLANS FOR S.N. 021-0031
FOR INFORMATION ONLY



PROPOSED PROFILE GRADE

EXISTING STR. NO. 021-0031



GENERAL NOTES

SEE PROPOSAL FOR BORING DATA.

FASTENERS SHALL BE HIGH STRENGTH BOLTS. BOLTS 3/4" ϕ. OPEN HOLES 13/16" ϕ, UNLESS OTHERWISE NOTED.

CALCULATED WEIGHT OF STRUCTURAL STEEL = 86.020 LBS. (M183)

THE ZINC-SILICATE AND VINYL PAINT SYSTEM SHALL BE USED FOR SHOP AND FIELD PAINTING OF STRUCTURAL STEEL EXCEPT WHERE OTHERWISE NOTED.

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" ADJUSTING SHIMS, OF THE DIMENSIONS OF THE BOTTOM BEARING PLATE, SHALL BE PROVIDED FOR EACH BEARING IN ADDITION TO ALL OTHER PLATES OR SHIMS. FOR TYPE I ELASTOMERIC BEARINGS, SHIMS OF THE DIMENSIONS OF TOP PLATE SHALL BE PROVIDED AND PLACED AS DETAILED.

THE CONTRACTOR SHALL DRIVE ONE STEEL HP 8 X 36 TEST PILES IN A PERMANENT LOCATION AT PIER 1 AS DIRECTED BY THE ENGINEER BEFORE ORDERING THE REMAINDER OF PILES.

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 WIDE FLANGE BEAMS AND ALL SPLICE PLATE MATERIAL OF THE WIDE FLANGE BEAMS.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31(ASTM A-615) GRADE 60.

LAYOUT OF CONCRETE REVETMENT MAT SLOPE PROTECTION MAY BE VARIED IN THE FIELD TO SUIT GROUND CONDITIONS AS DIRECTED BY THE ENGINEER.

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

EXPANSION BOLTS SHALL CONSIST OF APPROVED EXPANSION ANCHORS, PROVIDING MINIMUM CERTIFIED PROOF LOAD = 4,080 LBS., and 3/4" ϕ X 12" HOOKED BOLTS.

ANCHOR BOLTS SHALL BE SET BEFORE BOLTING DIAPHRAGMS OVER SUPPORTS.

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.

SEE SPECIAL PROVISIONS FOR FABRIC FORMED CONCRETE REVETMENT MAT.

NOTE: MECHANICALLY GALVANIZED FASTENERS USED ON ALL BOLTED CONNECTIONS FOR STRUCTURAL STEEL

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Superstructure	Each			1
Concrete Removal	Cu. Yds.		20.2	20.2
Expansion Bolts 3/4" ϕ	Each		48	48
Floor Drains	Each			14
Class X Concrete	Cu. Yds.	135.5	40.8	176.3
Preformed Joint Seal 2½"	Lin. Ft.	70		70
F. & E. Structural Steel	L. Sum	0.9		0.9
Elast. Bearing Assy. Type I	Each			12
Reinforcement Bars	Lbs.		4270	4270
Reinforcement Bars (Epoxy Coated)	Lbs.	28,910		28,910
Class X Concrete Encasement	Cu. Yds.		11.6	11.6
Name Plates	Each			1
Steel Piles HP 8 x 36	Lin. Ft.		440	440
Test Piles Steel HP8 x 36	Each			1
Fabric Formed Concrete Revetment Mats	Sq. Yd.			683
Slope Wall Removal	Sq. Yd.			250
Protective Coat	Sq. Yd.	550		550
REPAIR EXISTING PIER #2 COLUMN	Each		165.86	

STATION 513+66.70
REBUILT 198 BY
STATE OF ILLINOIS
F.A.P. RT. 820 SEC. 1-G-BR
F.A. PROJ MAF-820 (9)
LOADING HS20
STR. NO. 021-0031

NAME PLATE
(See Std. No. 2118)

NOTE: Locate name plate on South East Concrete Parapet.

WATERWAY INFORMATION

Drainage Area 110.38 Sq. Mi. Low Grade Elev. 636.85' @ Sta. 509+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head—Ft. Exist	Head—Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	50	7,289	1,172	1,172	630.83'	1.11	1.11	631.94	631.94
Base	100	8,292	1,233	1,233	631.43'	1.35'	1.35'	632.78	632.78
Overtopping									
Max. Calc.	500	10,570		1,365	632.63		1.92'		634.55

JAMES O. HAMILTON 3668 REGISTERED STRUCTURAL ENGINEER OF ILLINOIS

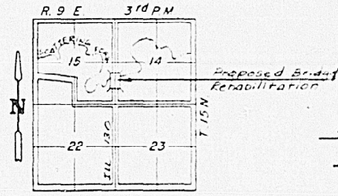
James O. Hamilton

DESIGN STRESSES

f'c = 3,300 p.s.i. (Superstructure)
fy = 60,000 p.s.i. (Reinforcement, Grade 60)
fy = 36,000 p.s.i. (Structural, M183)
fc = 1,400 p.s.i. (Substructure)

LOADING HS 20-44

Allow 25#/0' for future wearing surface.
Design Specifications: 1983 AASHTO with 1984 & 1985 Interims.



LOCATION SKECH

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
James J. Rayburn

GENERAL PLAN
ILL. RT. 130 OVER
SCATTERING FORK CREEK
F.A.P. 820 SEC. 1-G-BR
DOUGLAS COUNTY
STATION 513+66.70

MODEL: $MODELNAMES
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	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -
PLOT DATE = 8/12/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #12 S.N. 021-0031

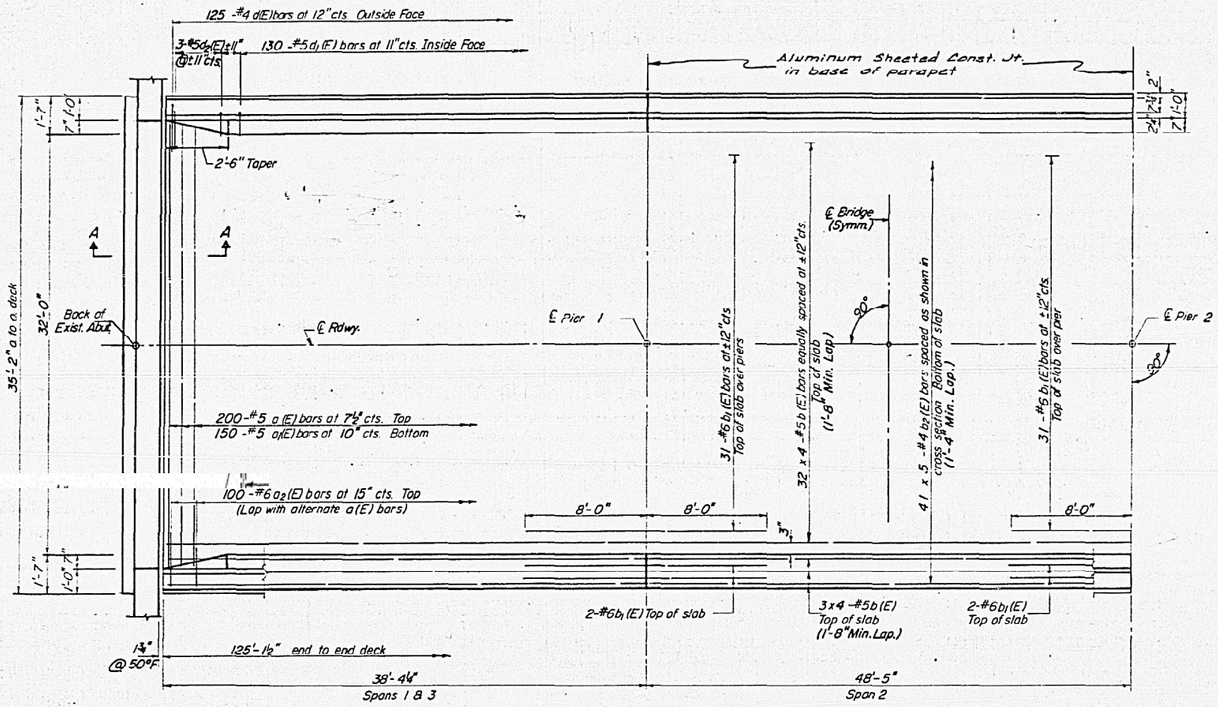
SCALE: NONE | SHEET 1 OF 4 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	59
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
	ILLINOIS	FED. AID PROJECT		

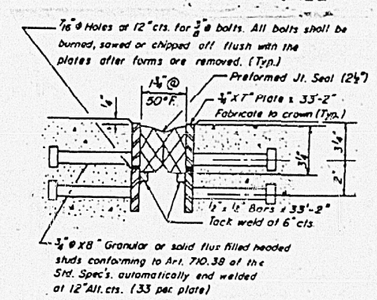
AS-BUILT PLANS FOR S.N. 021-0031
FOR INFORMATION ONLY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
820	1-G-BR	DOUGLAS	127	64

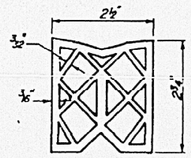
SHEET NO. 4
10 SHEETS



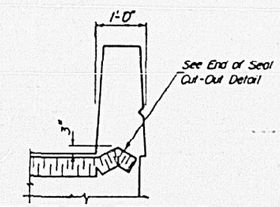
PLAN



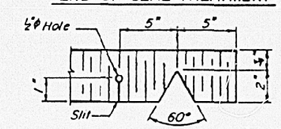
DETAIL OF EXP. JT.



PREFORMED JOINT SEAL (2½")



END OF SEAL TREATMENT



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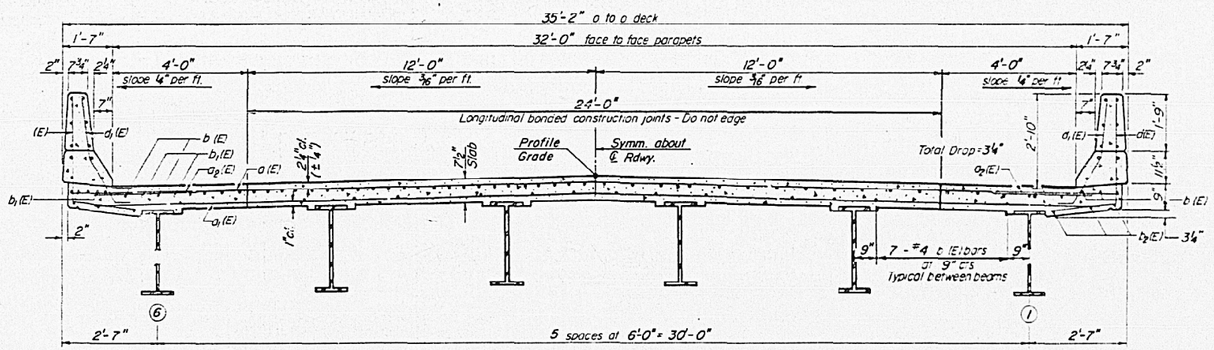

NEAR PIER

NEAR MIDSPAN

CROSS SECTION
(LOOKING NORTH)

NOTES:
See sheet #5 for superstructure details and Bill of Material.
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.
See Sheet #5 for Sec. A-A.

SUPERSTRUCTURE
F.A.P. RTE. 820 ~ SEC. 1-G-BR
DOUGLAS COUNTY
STA. 513+66.70

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	DRAWN -	REVISED -	
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/12/2024	DATE -	REVISED -	

AS-BUILT PLANS
LOCATION #12 S.N. 021-0031

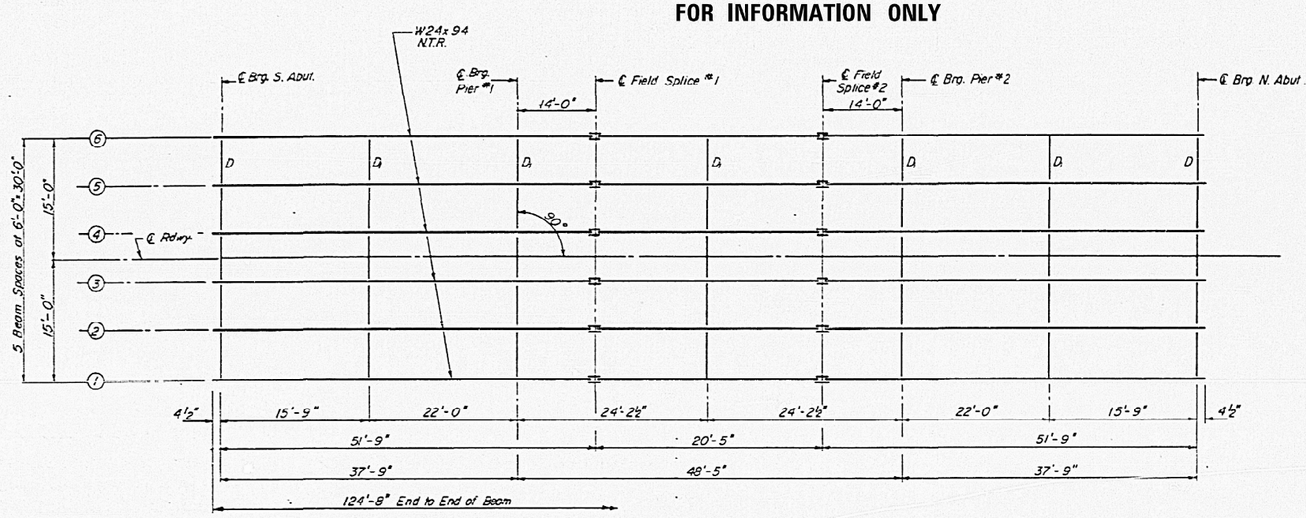
SCALE: NONE | SHEET 2 OF 4 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	60
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
		ILLINOIS FED. AID PROJECT		

F.A.P. 820	1-G-BR	DOUGLAS	127	66

SHEET NO. 6
10 SHEETS

AS-BUILT PLANS FOR S.N. 021-0031
FOR INFORMATION ONLY



FRAMING PLAN

N.T.R. Denotes Notch Toughness Requirement

INTERIOR BEAM MOMENT TABLE			
	0.4 Sp. 1	Pier	0.5 Sp. 2
Is (in^4)	2700	2700	2700
Ss (in^3)	222	222	222
Z (in^3)	254		254
MD ('k)	966	966	966
ML ('k)	91	181	99
MIMP ('k)	180	131	197
S_3(ML+I) ('k)	54	44	57
Ma ('k)	390	325	423
Mu ('k)	625	658	677
fs D non-comp (k.s.i.)	762		762
	4.9	9.8	5.4
f_s S_3(L+I) (k.s.i.)	21.1	17.6	22.9
fs (Overload) (k.s.i.)	26.0	27.4	28.3
fs (Total) (k.s.i.)		35.6	

INTERIOR BEAM REACTION TABLE		
	Abut.	Pier
RD (k)	13.2	46.4
RL (k)	31.8	39.9
Imp. (k)	9.5	11.8
R Total (k)	55.1	98.1

I_s and S_s are the moment of inertia and section modulus of the steel section used in computing f_s (Total and Overload).

Z is the plastic section modulus used to determine the Fully Plastic Moment.

Mu = Full Plastic Moment Capacity for Compact, Braced section.

Ma (Applied Moment) = 1.3 [MD + S_3 (ML + I)]

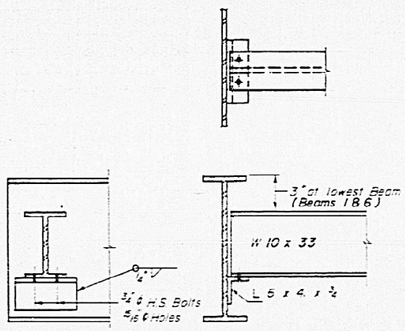
f_s (Total) is the sum of the stresses due to 1.3 [MD + $\frac{S}{3}$ (ML + I)]

f_s (Overload) is the sum of the stresses due to MD + $\frac{S}{3}$ (ML + I)

MD - Moment due to dead loads on non-composite section.

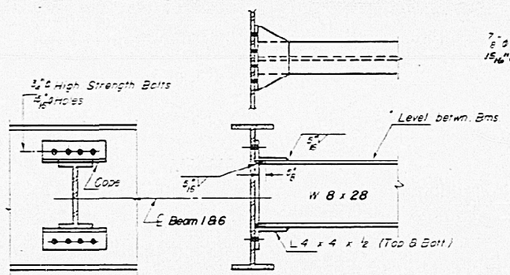
ML - Moment due to live load on non-composite section.

I - Live load impact.



DIAPHRAGM D

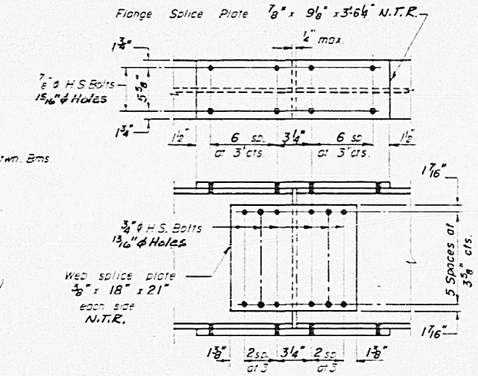
10 Required



DIAPHRAGM D_1

25 Required

Note: Two hardened washers shall be required over all 15/16" ϕ holes.



SPLICE

All Splice Plates = N.T.S.

TOP OF W-BEAM ELEVATION

	Beam 1,6	Beam 2,5	Beam 3,4
℄ Brg. S Abut.	636.62	636.73	636.82
℄ Pier 1			
℄ Splice 1			
℄ Splice 2			
℄ Pier 2			
℄ Brg. N. Abut.			

For Fabrication only. At field splice locations elevations given are at top of the W-beam.

STRUCTURAL STEEL
F.A.P. RTE. 820 ~ SEC. 1-G-BR
DOUGLAS COUNTY
STA. 513+66.70

MODEL: $MODELNAME$
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	DRAWN -	REVISED -	
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PLOT DATE = 8/12/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #12 S.N. 021-0031

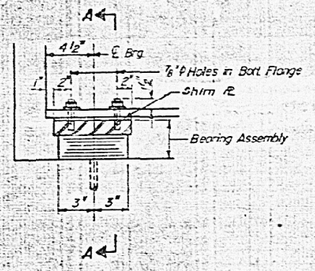
SCALE: NONE | SHEET 3 OF 4 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	61
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
	ILLINOIS FED. AID PROJECT			

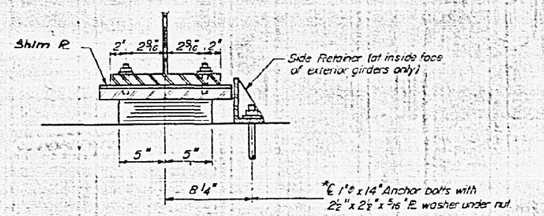
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 820	1-G-BR	DOUGLAS	127	67

SHEET NO. 7
10 SHEETS

AS-BUILT PLANS FOR S.N. 021-0031
FOR INFORMATION ONLY



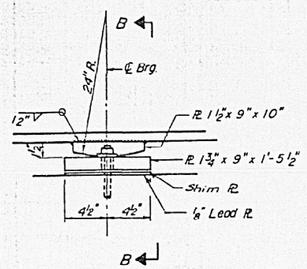
SECTION AT ABUT.



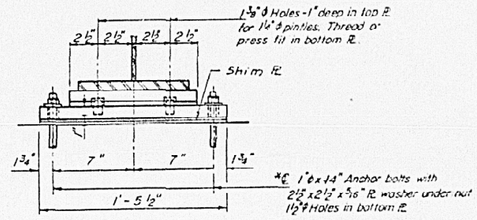
SECTION A-A

TYPE I ELASTOMERIC EXP. BRG.

*Note: Anchor bolt at fixed bearing may be built into the masonry. See Sheet #8 for Anchor Bolt installation.

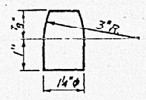


ELEVATION AT PIERS



SECTION B-B

FIXED BEARING



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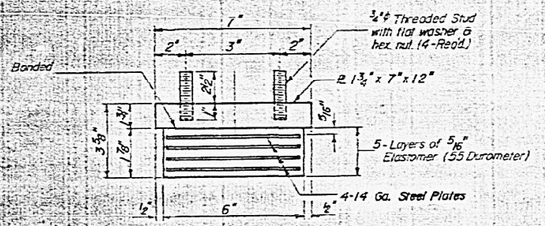
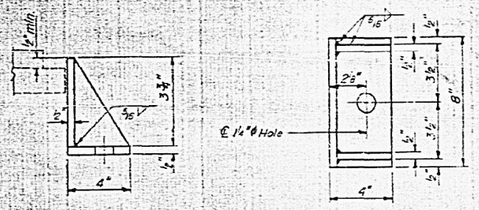


BEARING ASSEMBLY

Note: Shim plates shall not be placed under Bearing Assembly



SIDE RETAINER

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

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Elastomeric Bearing Assembly Type I	Each	12

BEARING DETAILS
F.A.P. RTE. 820 ~ SEC. 1-G-BR
DOUGLAS COUNTY
STA 513 + 66.70

MODEL: $MODELNAME$
FILE NAME: pw://ildot-pw.bentley.com:PWIDOT/Documents/IDOT Offices/District 5/ORD Projects/D570G13/CADData/CADsheets/D570G13-sht-As_Builts.dgn

USER NAME = Steven.Wood	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/12/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #12 S.N. 021-0031

SCALE: NONE | SHEET 4 OF 4 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	62
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
		ILLINOIS	FED. AID PROJECT	

AS-BUILT PLANS FOR S.N. 021-0039

FOR INFORMATION ONLY

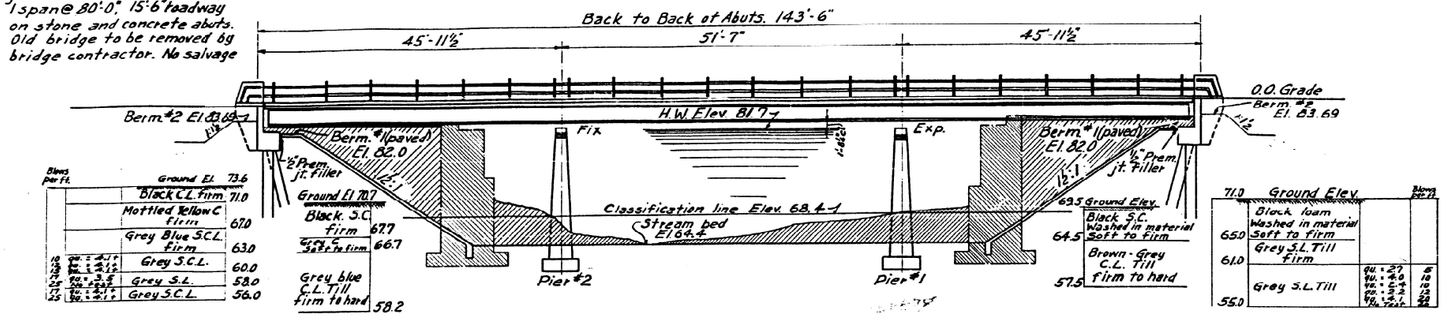
B.M N & W. in power poles 104' Rt sta. 293+08
Elevation 82.95 = U.S.G.S. 639.21

Existing structure – Steel truss, 1 span @ 80'-0", 15'-6" roadway on stone and concrete abuts. Old bridge to be removed by bridge contractor. No salvage

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.A. 2	LB-15d	Douglas	13	9
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT.		

SHEET NO 1
5 SHEETS



Boring # 3
S. End of West Abut.
Existing structure

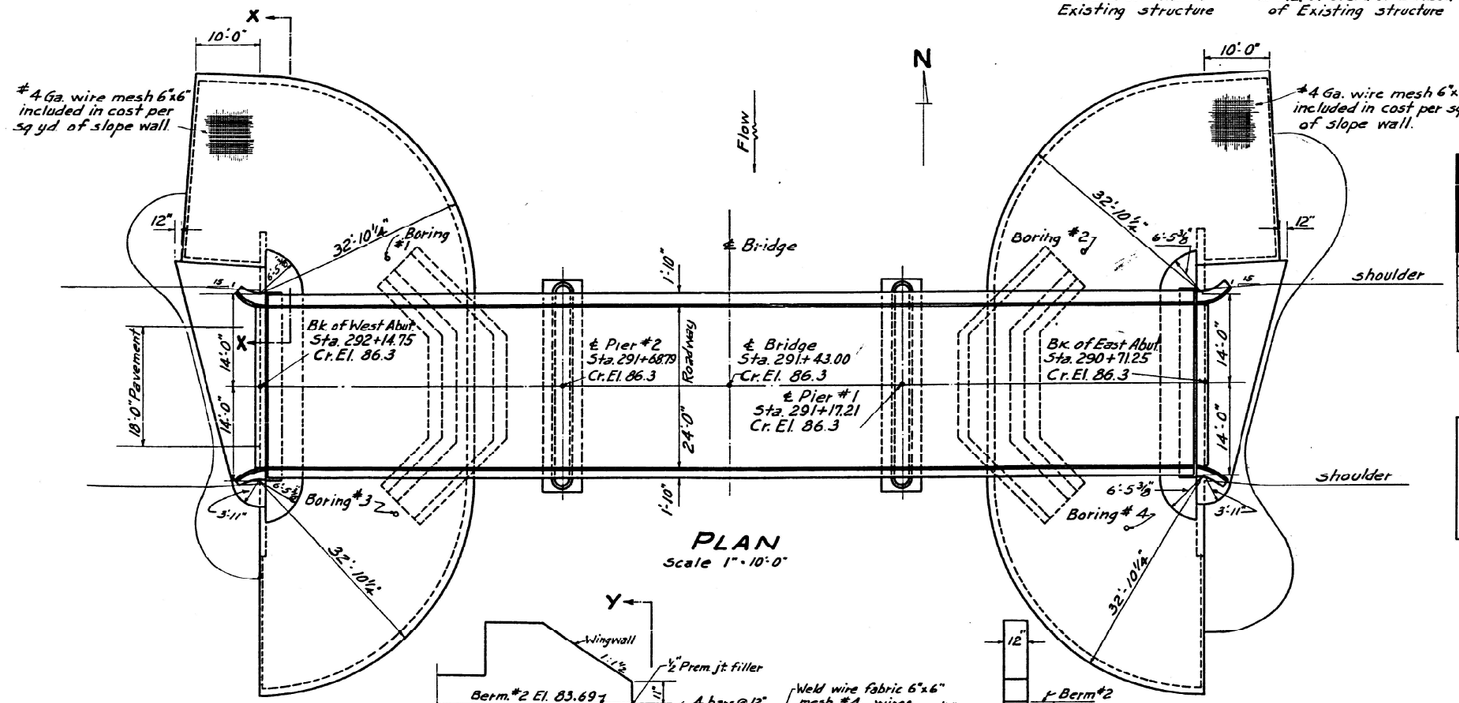
Boring # 1
N. End of West Abut.
Existing structure

ELEVATION
Scale 1" = 10'-0"

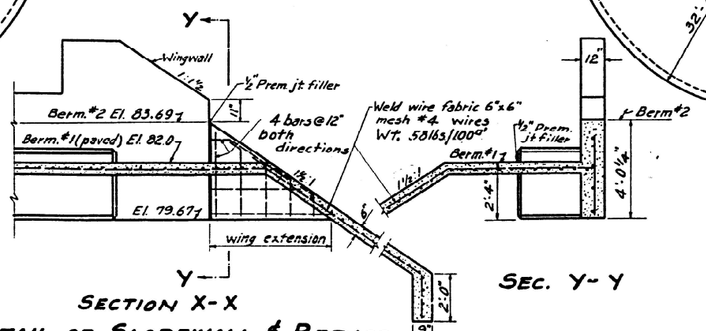
Boring # 2
N. End of E. Abut.
Existing structure

Boring # 4
10' S.E. of S. end of E. Abut.
of Existing structure

Boring data obtained by means of auger borings where blow counts and qu values are not shown
170 lb. Hammer
2'-0" Fall
S & H split barrel
Sampler No 12905



PLAN
Scale 1" = 10'-0"



SECTION X-X

SEC. Y-Y

DETAIL OF SLOPEWALL & BERMS

DESIGNED	J.H. C. Rozzacki	
CHECKED	J.E. Huffman	
DRAWN	M.A.R. M. Rozzacki	
CHECKED	J.E.H.	

March 8 1954

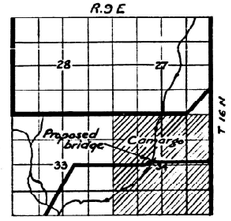
EXAMINED W.E. Harrison
EMPLOYEE IN BUREAU HAVING TRAFFIC STRUCTURES

PASSED E.C. Hunt
ENGINEER OF DESIGN

APPROVED R.R. Bartelmeyer
CHIEF HIGHWAY ENGINEER

GENERAL NOTES.

Class X concrete shall be used through out except in handrail end post & piers.
Class 'A' concrete shall be used in piers.
Handrail concrete shall be used in handrail end post.
Concrete floor slab shall be finished in accordance with Article 51.18(a) of the std. Specifications.
Slope wall shall be reinforced with welded wire fabric 6"x6" mesh, #4 wires weighing 58#/100 sq. ft.
Layout of slope walls may be varied to suit ground conditions in the field, as directed by Engineer.
Rivets ⅞" ø open hole 1⅛" ø, unless noted.
Field connections riveted, unless noted.
Railings shall be adjusted to true alignment after curbs have been poured.
All Rollers, Rockers, bearing plates, lead plates, pintles & anchor bolts shall be fabricated & set in accordance with Art. 511.4 of the std. Specs & are included for payment as structural steel.
Anchor bolts shall be set before riveting diaphragms over supports.
The roadway expansion guard angles shall be fabricated & erected to fit the crown of the roadway.
The exposed surfaces of expansion guard angles shall be given two shop coats of red lead paint.
Expansion guards are included for payment as structural steel.
Except otherwise provided, all structural steel shall receive one shop coat of red lead paint & two field coats of aluminum paint. See Articles 571 to 575 inclusive of the standard specifications.
All paints shall be furnished & applied by Contractor.
The Contractor shall drive two test piles in permanent locations as directed by the engineer before ordering remainder of piles.
Channel excavation to be disposed of in the roadway embankment as directed by the engineer.
Boring data are shown on the drawings only as a guide to bidders in estimating soil conditions which may be encountered in the work.



WATERWAY INFORMATION

Drainage Area	100.000 Acres
Character	Level, slightly rolling, wooded and cultivated
Required opening (15 Yr. flood)	1,450 sq. ft.
Present opening	1,117 sq. ft.
Proposed opening	1,688 sq. ft.

STATION 291+43
EMBARRASS RIVER
BUILT 195 BY
STATE OF ILLINOIS
SECTION L-B-15d
LOADING H15-S12

NAME PLATE
STD. 2113

TOTAL BILL OF MATERIAL

ITEM	Super. Str.	Sub. Str.	Total
Class X Concrete cu. yds.	98.0	33.0	131.0
Class A Concrete cu. yds.		135.9	135.9
Handrail Concrete cu. yds.	1.6		1.6
Reinforcement Bars lbs.	21330	10250	31580
Structural Steel lbs.	80590		80590
16" P.C. Concrete Piles lin. ft.		192	192
Test Piles each		2	2
Class A Excav. cu. yds.		100	100
Class B Excav. cu. yds.		182	182
Channel Excav. cu. yds.		1300	1300
Slope Wall sq. yds.		845	845
Rem. Of Exist. Struct. ea.			1
Name Plate each	1		1
Metal Handrail lin. ft.	283		283

STRESSES

f_s = 20,000 p.s.i (Reinforcement)
f_s = 18,000 p.s.i. (Structural steel)
f_c = 1,400 p.s.i. (Super structure)
f_c = 800 p.s.i. (Sub structure)
n = 10

H15-S12 Loading

GENERAL PLAN & ELEVATION
EMBARRASS RIVER BRIDGE
S.A. Rt. 2 SEC. L-B-15d
DOUGLAS COUNTY
STATION 291+43

USER NAME = Steven.Wood	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -	
PLOT DATE = 8/12/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #13 S.N. 021-0039

SCALE: NONE | SHEET 1 OF 3 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	63
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
	ILLINOIS FED. AID PROJECT			

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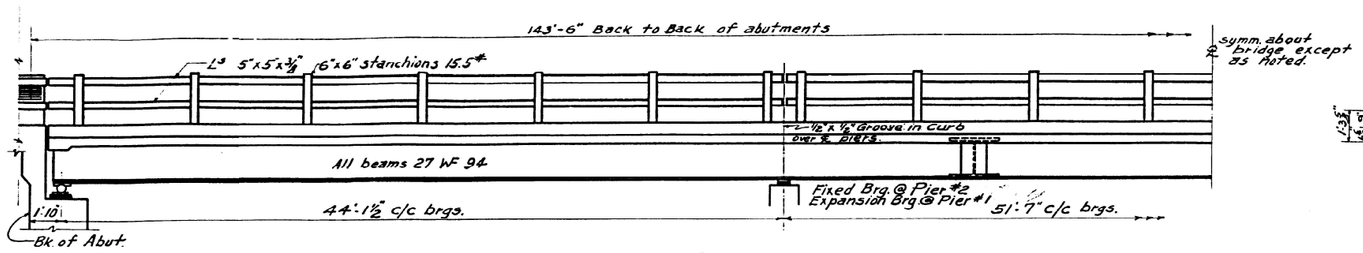
AS–BUILT PLANS FOR S.N. 021–0039
FOR INFORMATION ONLY

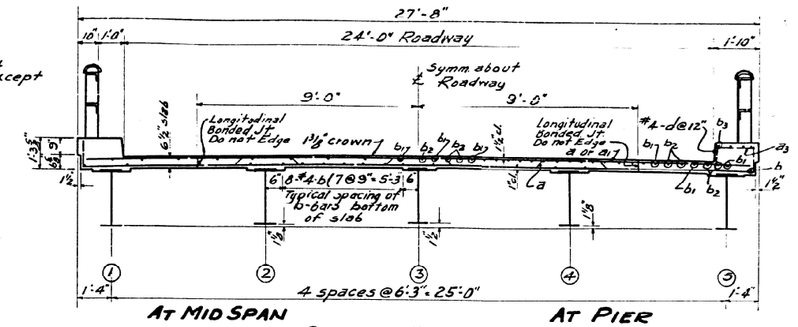
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.A. 2	LB-15d	Douglas	13	10
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 2
5 SHEETS

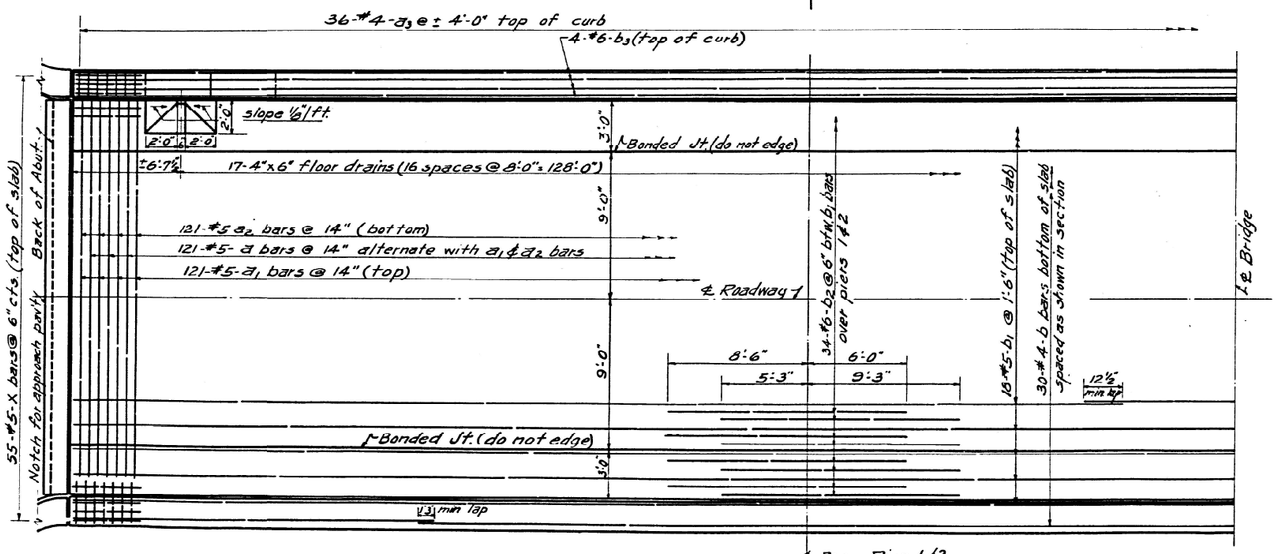


HALF ELEVATION



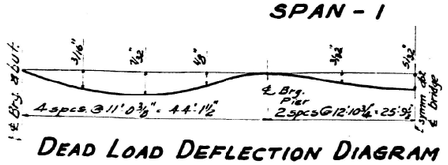
AT MID SPAN AT PIER

CROSS SECTION



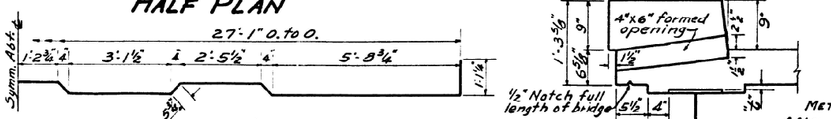
HALF PLAN

SPAN - 1

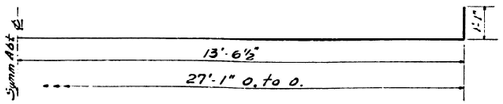


DEAD LOAD DEFLECTION DIAGRAM

SPAN - 2

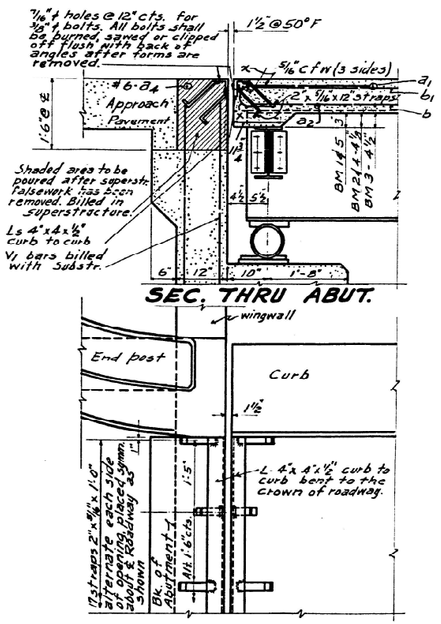


BAR a



BAR a₂

CURB & FLOOR DRAIN DETAIL



DETAIL OF EXPANSION ENDS AT ABUT.

(See Details Of Expansion Device on Sheet #3)

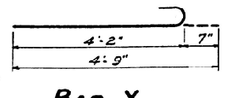
BILL OF MATERIAL

BAR	NO	SIZE	LENGTH	SHAPE
a	121	#5	30'-2"	
a₁	121	#5	27'-0"	
a₂	121	#5	29'-3"	
a₃	72	#4	1'-6"	
a₄	2	#6	23'-6"	
b	238	#4	21'-0"	
b₁	126	#5	21'-0"	
b₂	68	#6	14'-6"	
b₃	56	#6	21'-3"	
d	282	#4	1'-2"	
X	110	#5	4'-9"	
Class X Concrete		Cu Yds.	98	
Reinf. Bars		Lbs.	21,180	
*Struct. Steel		Lbs.	80,590	

*Includes wt of brgs. Est. 5260# and wt of expansion devices Est. 1370 lbs.

METHOD OF DETERMINING "C"

After all steel has been erected, elevations of the top flanges of the beams shall be taken at intervals of 10 feet. From these elevations subtract the increment of deflection for these points, determined from the DL deflection diagram. The elevations so obtained subtracted from the theoretical grade elevations minus floor thickness equals the fillet heights above top of beam.



BAR X

DESIGNED	M. A. Ruzzoli	EXAMINED	March 8 19 54
CHECKED	A. E. Huffman	PASSED	W. E. Hanson, ENGINEER OF BRIDGES AND TRAFFIC STRUCTURES
DRAWN	M. A. R. H. Boeckmann	APPROVED	K. R. Bartlemay, ENGINEER OF BRIDGES
CHECKED	A. E. H.		

SUPERSTRUCTURE
EMBARRASS RIVER BRIDGE
S.A. RT. 2 SEC. L-B-15d
DOUGLAS COUNTY
STA. 291+43

USER NAME = Steven.Wood	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -	
PLOT DATE = 8/12/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #13 S.N. 021-0039

SCALE: NONE | SHEET 2 OF 3 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	64
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
		ILLINOIS FED. AID PROJECT		

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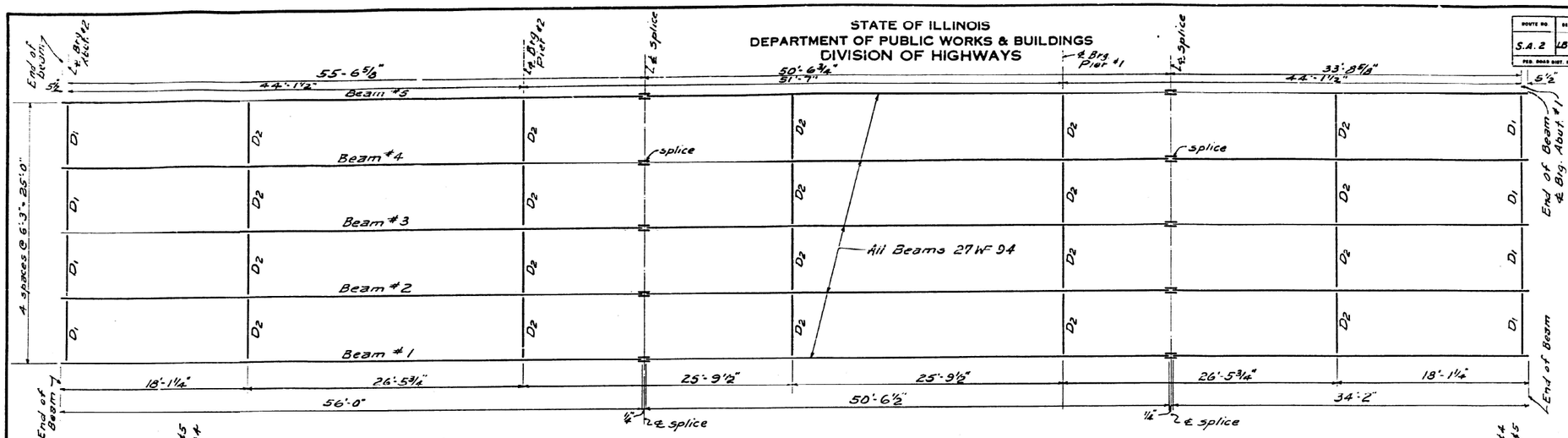
AS-BUILT PLANS FOR S.N. 021-0039

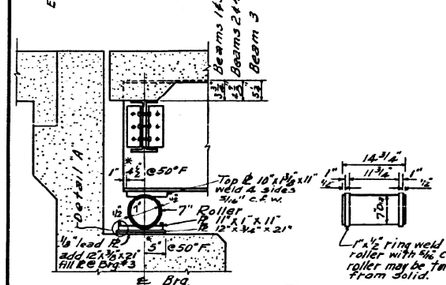
FOR INFORMATION ONLY

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.A. 2	LB-15d	Douglas	13	11
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT -		

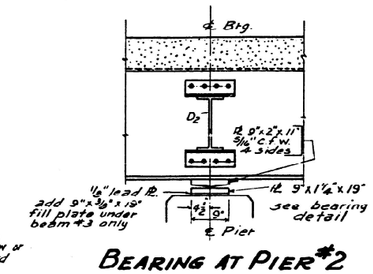
SHEET NO 3
5 SHEETS



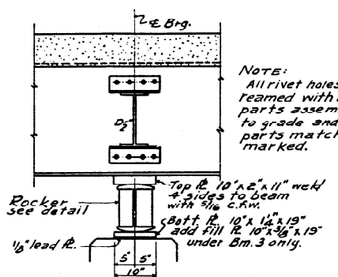


SEC. AT ABUT.

ROLLER DETAIL

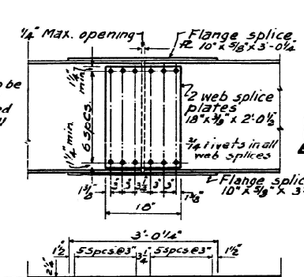


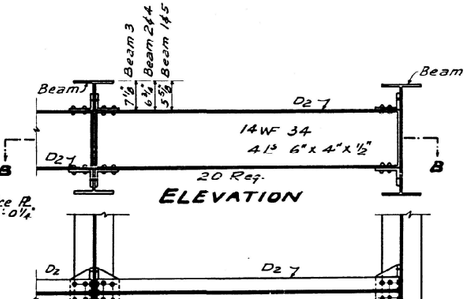
BEARING AT PIER #2



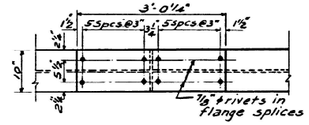
BEARING AT PIER #1

NOTE:
All rivet holes to be reamed with all parts assembled to grade and all parts match marked.



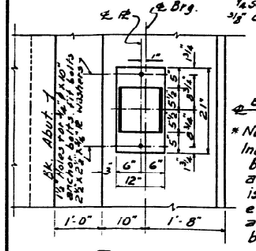


ELEVATION

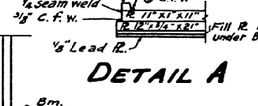


SPLICE DETAIL

SEC. B-B DIAPHRAGM D2



PLAN

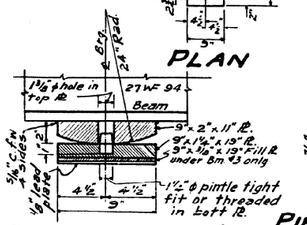


DETAIL A

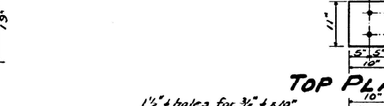
* Note to Erector:
Increase each dimension by the same amount if abut. has moved or if temp. is over 50° F. Decrease each by the same amount if temp is below 50° F.



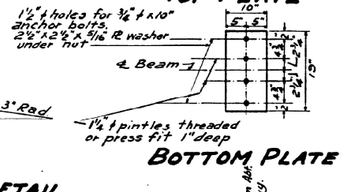
PLAN



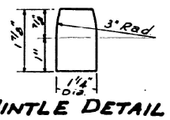
BRG. DETAIL AT PIER #2



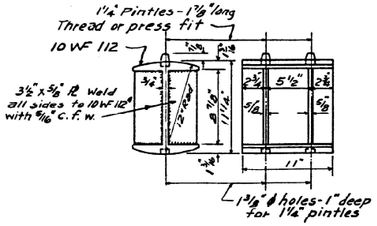
TOP PLATE



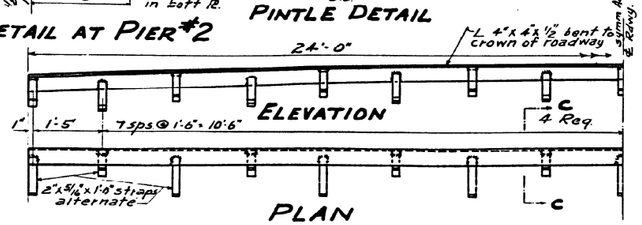
BOTTOM PLATE



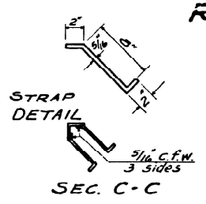
PINTLE DETAIL



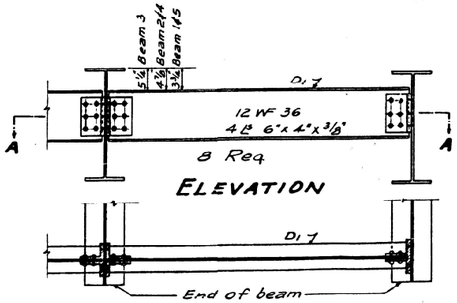
ROCKER DETAIL



EXPANSION END DETAIL



SEC. C-C



ELEVATION

SEC. A-A DIAPHRAGM D1

DESIGNED	M. A. Rezaeh	
CHECKED	J. E. Huffman	
DRAWN	M A R	H. Bookkeeper
CHECKED	A. E. H.	

March 8 19 54

EXAMINED W. E. Hanaway
ENGINEER OF BRIDGES AND TRAFFIC STRUCTURES

PASSED
ENGINEER OF DESIGN

APPROVED
CHIEF HIGHWAY ENGINEER

STRUCTURAL STEEL
EMBARRASS RIVER BRIDGE
S.A. RT. 2 SEC. L-B-15 d
DOUGLAS COUNTY
STA. 291+43

MODEL: $MODELNAME$
FILE NAME: pw://ilkodwpw.bentley.com:PWDOT/Documents/DOT Offices-District 5/ORD Projects-D570G13/CADData/CADAssets/D570G13-SetNoAs_Baltic.dgn

USER NAME = Steven.Wood	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -	
PLOT DATE = 8/12/2024	DATE -	REVISED -	

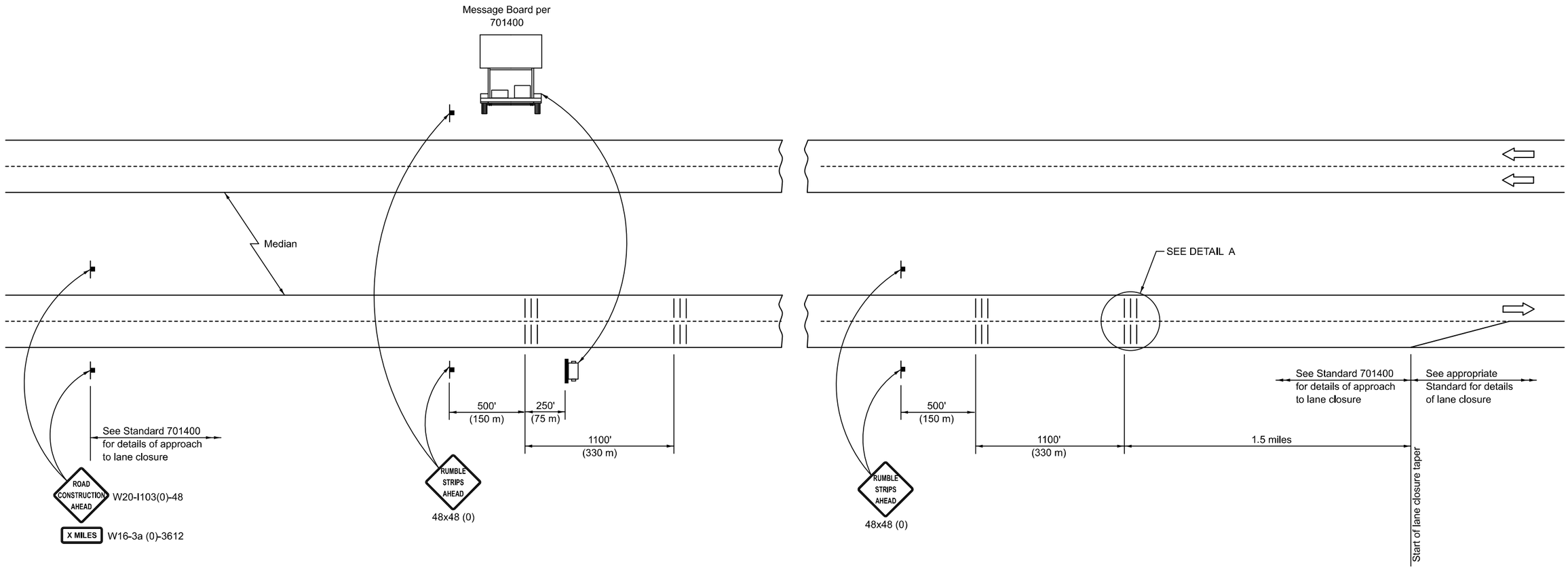
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #13 S.N. 021-0039

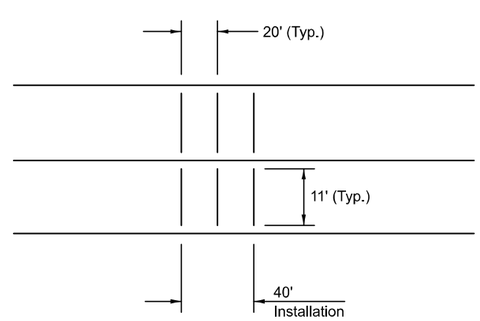
SCALE: NONE | SHEET 3 OF 3 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	65
	* DOUGLAS & VERMILION	CONTRACT NO. 70G13		
	ILLINOIS	FED. AID PROJECT		

DETAIL FOR TEMPORARY RUMBLE STRIPS (SPECIAL)



DETAIL A



SYMBOLS

- Sign
- Temporary Rumble Strips
- Trailer Mounted Sign

GENERAL NOTES

Remove the Temporary Rumble Strips (Special) prior to the removal of the advanced warning signs.

All dimensions are in inches (millimeters) unless otherwise shown.

The first rumble strip is placed 250' in advance of the message board as required by 701400.

For consecutive overheads along I-57, the 1.5 mile rumble strips may be used as the advanced rumble strips at the next bridge - to be determined by the engineer.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

MODEL: $MODELNAME$
FILE NAME: pw://ildot-pw.bentley.com:PWIDOT/Documents/IDOT Offices/District 5/ORD Projects/D570G13/CADData/CADsheets/D570G13-sht-Temp_Strip.dgn

USER NAME = Steven.Wood	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/12/2024	DATE -	REVISED -	

DETAIL FOR TEMPORARY RUMBLE STRIPS (SPECIAL)

SCALE: | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2025-1	*	66	66
* DOUGLAS & VERMILION		CONTRACT NO. 70G13		
		ILLINOIS	FED. AID PROJECT	