

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

P.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE PAINT 2022-1	VARIOUS	61	1
		ILLINOIS	CONTRACT NO. 78881	

FOR INDEX OF SHEETS, SEE SHEET NO. 3

FOR SUMMARY OF QUANTITIES, SEE SHEETS NO. 4-6

**PROPOSED
HIGHWAY PLANS**

**VARIOUS ROUTES
SECTION D9 BRIDGE PAINT 2022-1
PROJECT STP-PI51(722)
VARIOUS COUNTIES**

BRIDGE NO. 1
SN. 041-0053
I-57 2020 2-WAY ADT=19000,
42% TRUCKS
TOWNSHIP-SHILOH
POSTED SPEED: 70 MPH

BRIDGE NO. 2
SN. 041-0051
I-57 2020 2-WAY ADT=19000,
42% TRUCKS
TOWNSHIP-SHILOH
POSTED SPEED: 70 MPH

BRIDGE NO. 3
SN. 033-0043
IL 142 2019 ADT=2550, 17% TRUCKS
TOWNSHIP-DAHLGREN
POSTED SPEED: 55 MPH

BRIDGE NO. 4
SN. 097-0030
IL 141 2020 ADT=3700, 15% TRUCKS
TOWNSHIP-NEW HAVEN
POSTED SPEED: 55 MPH

BRIDGE NO. 5
SN. 044-0012
IL 37 2020 ADT=1350, 17% TRUCKS
TOWNSHIP-CACHE
POSTED SPEED: 55 MPH

BRIDGE NO. 6
SN. 077-0032
I-57 2020 2-WAY ADT=12400,
60% TRUCKS
TOWNSHIP-PULASKI
POSTED SPEED: 70 MPH

BRIDGE NO. 7
SN. 077-0033
I-57 2020 2-WAY ADT=12400,
60% TRUCKS
TOWNSHIP-PULASKI
POSTED SPEED: 70 MPH

BRIDGE NO. 8
SN. 077-0034
I-57 2020 2-WAY ADT=12400,
60% TRUCKS
TOWNSHIP-VILLA RIDGE
POSTED SPEED: 70 MPH

BRIDGE NO. 9
SN. 077-0031
I-57 2020 2-WAY ADT=12400,
60% TRUCKS
TOWNSHIP-VILLA RIDGE
POSTED SPEED: 70 MPH

DESIGN DESIGNATION : NA
COORDINATE SYSTEM : NA

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

PROJECT ENGINEER: GRANT DETERDING
PROJECT DESIGNER: DAVID WILSON

CONTRACT NO. 78881

BRIDGE NO. 6
STRUCTURE NO. 077-0032
CARRIES TR 60 OVER I-57

BRIDGE NO. 7
STRUCTURE NO. 077-0033
CARRIES TR 95A OVER I-57

BRIDGE NO. 8
STRUCTURE NO. 077-0034
CARRIES TR 107 OVER I-57

BRIDGE NO. 9
STRUCTURE NO. 077-0031
CARRIES FAS 939-CH 8
OVER I-57

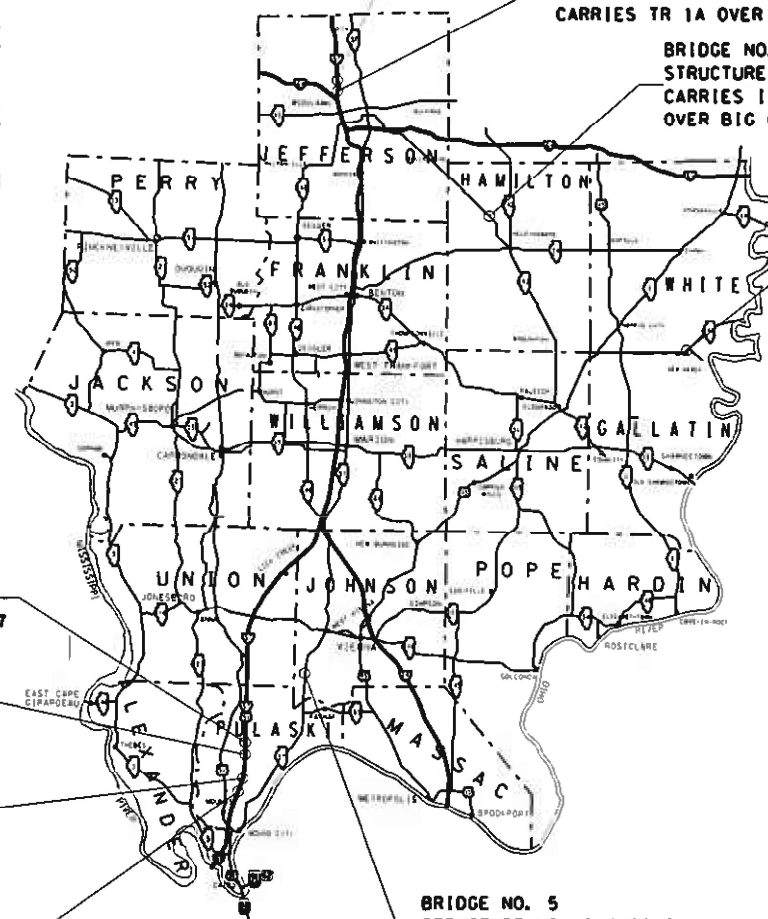
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BRIDGE NO. 1
STRUCTURE NO. 041-0053
CARRIES FAS 826(CH10) OVER I-57

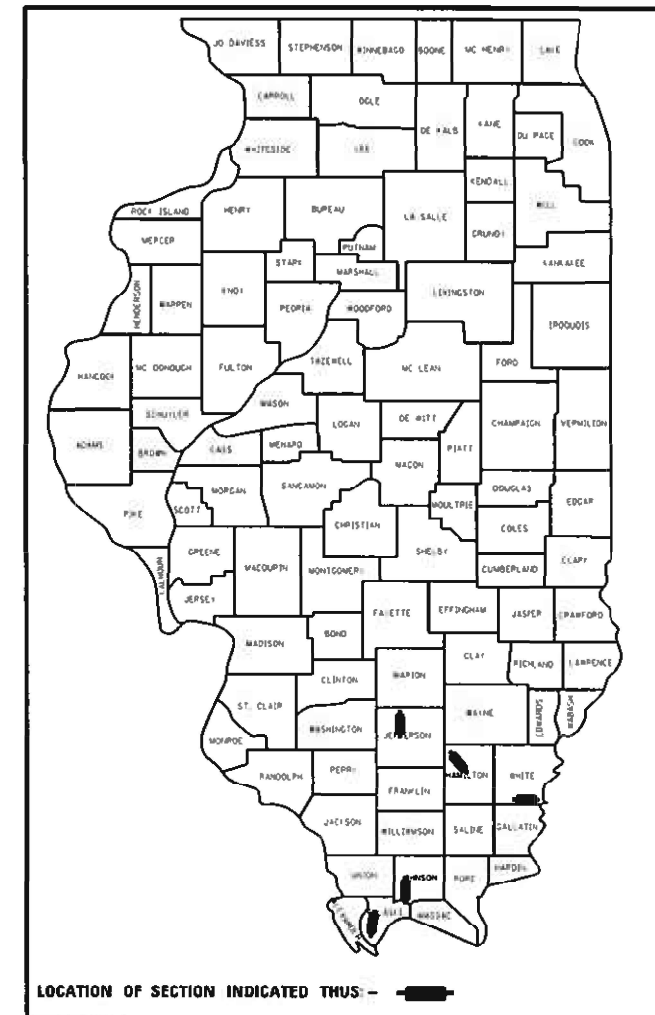
BRIDGE NO. 2
STRUCTURE NO. 041-0051
CARRIES TR 1A OVER I-57

BRIDGE NO. 3
STRUCTURE NO. 033-0043
CARRIES IL 142
OVER BIG CREEK

BRIDGE NO. 4
STRUCTURE NO. 097-0030
CARRIES IL 141
OVER LITTLE WABASH RIVER



D-99-059-21



LOCATION OF SECTION INDICATED THUS: -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 06-14-2021
[Signature]

REGION FIVE ENGINEER

August 13, 2021

[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

August 13, 2021

[Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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Prepared By: *Charles Stein*
DISTRICT STUDIES & PLANS ENGINEER

Examined By: *Nancy Lee*
DISTRICT LAND ACQUISITION ENGINEER

Examined By: *Carrie Miller*
DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By: _____
DISTRICT OPERATIONS ENGINEER

Examined By: *KPO*
DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By: *Doris J. Kunkel*
DISTRICT CONSTRUCTION ENGINEER

Examined By: *R. C. ...*
DISTRICT MATERIALS ENGINEER

USER NAME = WILSONDA	DESIGNED - _____	REVISED - _____
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PLOT DATE = 5/26/2021	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SIGNATURE SHEET

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

F.A. RTE. VAR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D9 BRIDGE PAINT 2023-1	VARIOUS	51	2
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78882	

GENERAL NOTES

ADDITIONAL TRAFFIC CONTROL DEVICES MAY BE REQUIRED TO CHANNEL TRAFFIC AT COMMERCIAL AND/OR PRIVATE ENTRANCE AS DIRECTED BY THE ENGINEER. ALL TRAFFIC CONTROL DEVICES ARE INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION STANDARD USED AT THE SITE, AND WILL NOT BE PAID FOR SEPERATELY.

THE CONTRACTOR IS REQUIRED TO BE SSPC OPI AND SSPC OP2 CERTIFIED.

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO ROUTINE VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION 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 SCOPE OF THE WORK, HOWEVER THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

FOR STRUCTURES 041-0051, 041-0053, CLEANING AND PAINTING OF EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES" AND "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES." ALL STRUCTURAL STEEL SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING -SSPC- SPIO. ALL STEEL 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 GRAY, MUNSELL NO. 5B 7/1. THE COLOR OF THE FINAL FINISH COAT FOR THE EXTERIOR SURFACES AND BOTTOM OF THE FLANGE OF THE FASCIA BEAMS SHALL BE BLUE, MUNSELL NO. 10B 3/6.

FOR STRUCTURES 097-0030, 077-0031, 077-0032, 077-0033, 077-0034, CLEANING AND PAINTING OF EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES" AND "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES." ALL STRUCTURAL STEEL SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING -SSPC- SPIO. ALL STEEL 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 GRAY, MUNSELL NO. 5B 7/1. THE COLOR OF THE FINAL FINISH COAT FOR THE EXTERIOR SURFACES AND BOTTOM OF THE FLANGE OF THE FASCIA BEAMS SHALL BE INTERSTATE GREEN, MUNSELL NO. 7.5G 4/8.

FOR STRUCTURE 044-0012, CLEANING AND PAINTING OF EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES" AND "CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES." ALL BEAM END STRUCTURAL STEEL (DIMENSIONS VARY) AS SHOWN ON SHEET 11 SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING -SSPC- SPIO. OTHER PAINT LOCATIONS SHOWN ON SHEET 11 SHALL BE CLEANED PER COMMERCIAL GRADE POWER TOOL CLEANING (SSPC-SPI5). ALL STEEL 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 INTERSTATE GREEN, MUNSELL NO. 7.5G 4/8. THE COLOR OF THE FINAL FINISH COAT FOR THE EXTERIOR SURFACES AND BOTTOM OF THE FLANGE OF THE FASCIA BEAMS SHALL BE INTERSTATE GREEN, MUNSELL NO. 7.5G 4/8.

FOR STRUCTURE 033-0043, CLEANING AND PAINTING OF EXISTING STURCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES" AND "CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES." ALL STRUCTURAL STEEL WITHIN 5 FT. (MEASURED ALONG THE BEAM) OF EITHER SIDE OF SPECIFIED DECK JOINTS AS WELL AS OTHER BEAM LOCATIONS AS SPECIFIED ON THE AREAS OF CLEANING AND PAINTING CHART ON SHEET 7 SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING -SSPC- SPIO. ALL STEEL 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 GRAY, MUNSELL NO. 5B 7/1. THE COLOR OF THE FINAL FINISH COAT FOR THE EXTERIOR SURFACES AND BOTTOM OF THE FLANGE OF THE FASCIA BEAMS SHALL BE INTERSTATE GREEN, MUNSELL NO. 7.5G 4/8.

A TOTAL OF 15 AIR MONITORS ARE REQUIRED TO MONITOR ABRASIVE BLASTING OPERATIONS AT 7 LOCATIONS.
 1 AT BRIDGE NO. 1 (SN 041-0053), 4 AT BRIDGE NO. 2 (SN 041-0051), 0 AT BRIDGE NO. 3 (SN 033-0043),
 4 AT BRIDGE NO. 4 (SN 097-0030), 0 AT BRIDGE NO. 5 (SN 044-0012), 1 AT BRIDGE NO. 6 (SN 077-0032),
 0 AT BRIDGE NO. 7 (SN 077-0033), 4 AT BRIDGE NO. 8 (SN 077-0034), AND 1 AT BRIDGE NO. 9 (SN 077-0031).

COMMITMENTS: NONE

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	SIGNATURE SHEET
3	GENERAL NOTES, INDEX OF SHEETS AND STANDARDS
4-6	SUMMARY OF QUANTITIES
7	SCHEDULES AND AREAS OF CLEANING AND PAINTING
8	SN 041-0053, 041-0051, 077-0032, 077-0033, 077-0034, 077-0031 STAGE CONSTRUCTION DETAILS
9	SN 041-0051 STAGE I TRAFFIC DETAILS
10	SN 041-0051 STAGE II TRAFFIC DETAILS
11	SN 044-0012 PAINT DETAILS
12-14	SN 041-0053 STRUCTURE INFORMATION
15-17	SN 041-0051 STRUCTURE INFORMATION
18-22	SN 033-0043 STRUCTURE INFORMATION
23-32	SN 097-0030 STRUCTURE INFORMATION
33-39	SN 044-0012 STRUCTURE INFORMATION
40-42	SN 077-0032 STRUCTURE INFORMATION
43-45	SN 077-0033 STRUCTURE INFORMATION
46-48	SN 077-0034 STRUCTURE INFORMATION
49-51	SN 077-0031 STRUCTURE INFORMATION

STANDARDS

701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5m) AWAY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS \geq TO 45 MPH
701400-10	APPROACH TO LANE CLOSURE, FREEWAY/ EXPRESSWAY
701401-12	LANE CLOSURE, FREEWAY/ EXPRESSWAY
701402-12	LANE CLOSURE, FREEWAY/ EXPRESSWAY, WITH BARRIER
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS \geq 45 MPH
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES, INDEX OF SHEETS AND STANDARDS

SCALE: _____ SHEET ____ OF ____ SHEETS STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE PAINT 2022-1	VARIOUS	51	3
			CONTRACT NO. 78881	
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

				COUNTY:	JEFFERSON		HAMILTON	WHITE	JOHNSON	PULASKI			
				ROUTE:	FAS 826 (CH10)/ I-57	TR 1A/ I-57	IL 142/ BIG CREEK	IL 141/ LITTLE WABASH RIVER	IL 37/ ABANDONED RR	TR 60/ I-57	TR 95A/ I-57	TR 107/ I-57	FAS 939 - CH 8 / I-57
				FUNDING:	NHPP 80% FEDERAL; 20% STATE	NHPP 80% FEDERAL; 20% STATE	STP 80% FEDERAL; 20% STATE	STP 80% FEDERAL; 20% STATE	STP 80% FEDERAL; 20% STATE	NHPP 80% FEDERAL; 20% STATE	NHPP 80% FEDERAL; 20% STATE	NHPP 80% FEDERAL; 20% STATE	NHPP 80% FEDERAL; 20% STATE
				LOCATION:	RURAL	RURAL	RURAL	RURAL	RURAL	RURAL	RURAL	RURAL	RURAL
CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	BRIDGE NO. 1	BRIDGE NO. 2	BRIDGE NO. 3	BRIDGE NO. 4	BRIDGE NO. 5	BRIDGE NO. 6	BRIDGE NO. 7	BRIDGE NO. 8	BRIDGE NO. 9	
				041-0053	041-0051	033-0043	097-0030	044-0012	077-0032	077-0033	077-0034	077-0031	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	17	2	2	1	2	2	2	2	2	2	
67100100	MOBILIZATION	L SUM	1	0.11	0.11	0.12	0.11	0.11	0.11	0.11	0.11	0.11	
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	11	2	1				2	2	2	2	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.11	0.11	0.12	0.11	0.11	0.11	0.11	0.11	0.11	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	252	28	28	28	28	28	28	28	28	28	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	2400	400	400				400	400	400	400	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	2400	400	400				400	400	400	400	
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW) TEST LEVEL 3	EACH	12	2	2				2	2	2	2	
70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW) TEST LEVEL 3	EACH	12	2	2				2	2	2	2	
X5060603	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 3	L SUM	1			1							
X5060605	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 5	L SUM	1					1					
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1		1								

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE PAINT 2022-1	VARIOUS	51	4
			CONTRACT NO. 78881	
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES - CONT

				COUNTY:	JEFFERSON		HAMILTON	WHITE	JOHNSON	PULASKI			
				ROUTE:	FAS 826 (CH10)/ I-57	TR 1A/ I-57	IL 142/ BIG CREEK	IL 141/ LITTLE WABASH RIVER	IL 37/ ABANDONED RR	TR 60/ I-57	TR 95A/ I-57	TR 107/ I-57	FAS 939 - CH 8 / I-57
				FUNDING:	NHPP 80% FEDERAL; 20% STATE	NHPP 80% FEDERAL; 20% STATE	STP 80% FEDERAL; 20% STATE	STP 80% FEDERAL; 20% STATE	STP 80% FEDERAL; 20% STATE	NHPP 80% FEDERAL; 20% STATE	NHPP 80% FEDERAL; 20% STATE	NHPP 80% FEDERAL; 20% STATE	NHPP 80% FEDERAL; 20% STATE
				LOCATION:	RURAL	RURAL	RURAL	RURAL	RURAL	RURAL	RURAL	RURAL	RURAL
CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	BRIDGE NO. 1	BRIDGE NO. 2	BRIDGE NO. 3	BRIDGE NO. 4	BRIDGE NO. 5	BRIDGE NO. 6	BRIDGE NO. 7	BRIDGE NO. 8	BRIDGE NO. 9	
				041-0053	041-0051	033-0043	097-0030	044-0012	077-0032	077-0033	077-0034	077-0031	
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	576	96	96				96	96	96	96	
Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1									
Z0007102	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 2	L SUM	1		1								
Z0007104	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 4	L SUM	1				1						
Z0007106	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 6	L SUM	1						1				
Z0007107	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 7	L SUM	1							1			
Z0007108	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 8	L SUM	1								1		
Z0007109	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 9	L SUM	1									1	
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1									
Z0010502	CLEANING AND PAINTING STEEL BRIDGE NO. 2	L SUM	1		1								
Z0010503	CLEANING AND PAINTING STEEL BRIDGE NO. 3	L SUM	1			1							
Z0010504	CLEANING AND PAINTING STEEL BRIDGE NO. 4	L SUM	1				1						

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE PAINT 2022-1	VARIOUS	51	5
			CONTRACT NO. 78881	
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES - CONT

COUNTY:	JEFFERSON		HAMILTON	WHITE	JOHNSON	PULASKI						
	ROUTE:	FAS 826 (CH10)/ I-57	TR 1A/ I-57	IL 142/ BIG CREEK	IL 141/ LITTLE WABASH RIVER	IL 37/ ABANDONED RR	TR 60/ I-57	TR 95A/ I-57	TR 107/ I-57	FAS 939 - CH 8 / I-57		
	FUNDING:	NHPP 80% FEDERAL; 20% STATE	NHPP 80% FEDERAL; 20% STATE	STP 80% FEDERAL; 20% STATE	STP 80% FEDERAL; 20% STATE	STP 80% FEDERAL; 20% STATE	NHPP 80% FEDERAL; 20% STATE	NHPP 80% FEDERAL; 20% STATE	NHPP 80% FEDERAL; 20% STATE	NHPP 80% FEDERAL; 20% STATE		
	LOCATION:	RURAL	RURAL	RURAL	RURAL	RURAL	RURAL	RURAL	RURAL	RURAL		
CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	BRIDGE NO. 1	BRIDGE NO. 2	BRIDGE NO. 3	BRIDGE NO. 4	BRIDGE NO. 5	BRIDGE NO. 6	BRIDGE NO. 7	BRIDGE NO. 8	BRIDGE NO. 9
				041-0053	041-0051	033-0043	097-0030	044-0012	077-0032	077-0033	077-0034	077-0031
Z0010505	CLEANING AND PAINTING STEEL BRIDGE NO. 5	L SUM	1					1				
Z0010506	CLEANING AND PAINTING STEEL BRIDGE NO. 6	L SUM	1						1			
Z0010507	CLEANING AND PAINTING STEEL BRIDGE NO. 7	L SUM	1							1		
Z0010508	CLEANING AND PAINTING STEEL BRIDGE NO. 8	L SUM	1								1	
Z0010509	CLEANING AND PAINTING STEEL BRIDGE NO. 9	L SUM	1									1

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE PAINT 2022-1	VARIOUS	51	6
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78881	

TEMPORARY CONCRETE BARRIER/RELOCATE TEMPORARY CONCRETE BARRIER

BRIDGE NUMBER	STRUCTURE NUMBER	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER
1	041-0053	400 ft	400 ft
2	041-0051	400 ft	400 ft
6	077-0032	400 ft	400 ft
7	077-0033	400 ft	400 ft
8	077-0034	400 ft	400 ft
9	077-0031	400 ft	400 ft
TOTAL		2400 ft	2400 ft

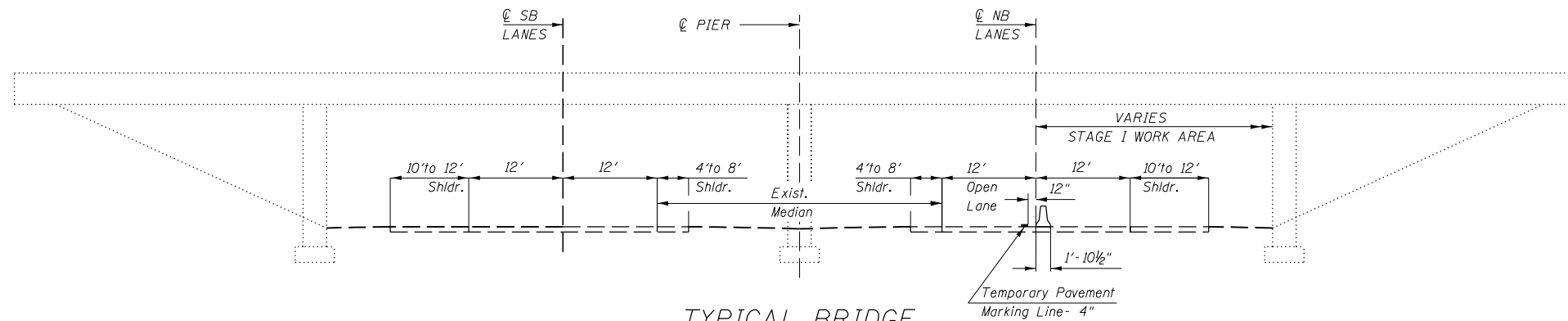
AREAS OF CLEANING AND PAINTING

BRIDGE NUMBER	STRUCTURE NUMBER	LEAD PRESENT	5' AT BEAM ENDS AT ABUTMENTS	ALL STRUCTURAL STEEL
1	041-0053	YES		X
2	041-0051	YES		X
3	033-0043	NO	*	
4	097-0030	YES		X
5	044-0012	NO	**	
6	077-0032	YES		X
7	077-0033	YES		X
8	077-0034	YES		X
9	077-0031	YES		X

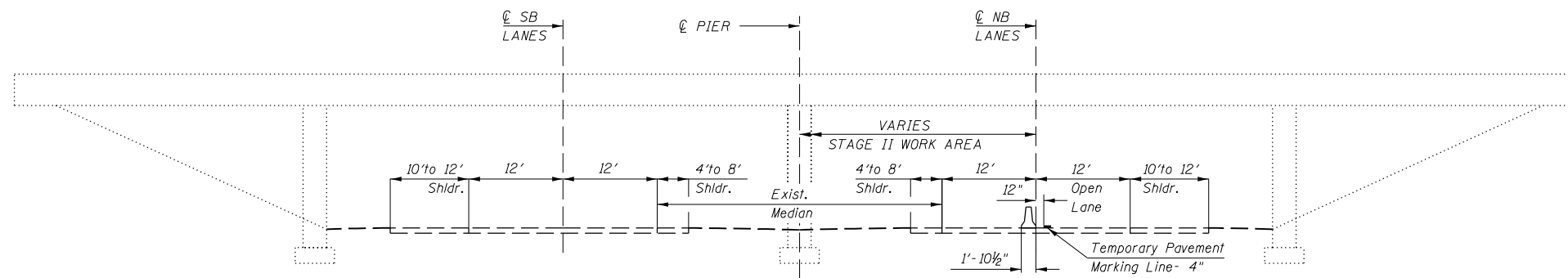
* 5' AT ALL BEAM ENDS. CENTER BEAM ON NORTHWEST END 10'.

** LOCATIONS SHOWN ON SHEET 11.

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TYPICAL BRIDGE
 STAGE I CONSTRUCTION
 SHOWING NB LANES
 SB LANES SIMILAR BY 180° ROTATION
 (LOOKING NORTH)



TYPICAL BRIDGE
 STAGE II CONSTRUCTION
 SHOWING NB LANES
 SB LANES SIMILAR BY 180° ROTATION
 (LOOKING NORTH)

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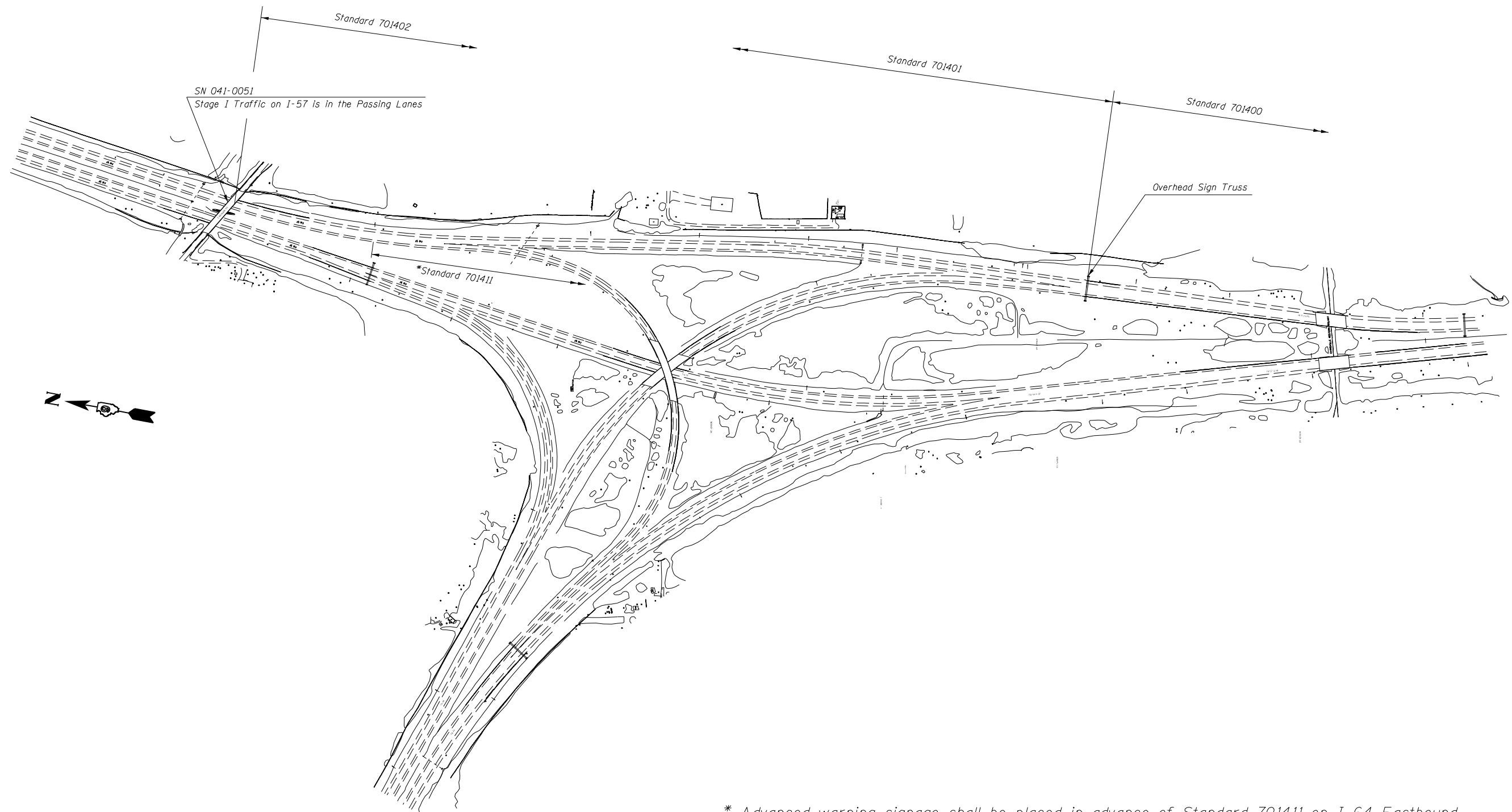
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	DRAWN -	REVISED -
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PLOT DATE = 6/24/2021	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SN 041-0053, 041-0051, 077-0032, 077-0033, 077-0034, 077-0031
 STAGE CONSTRUCTION DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE PAINT 2022-1	VARIOUS	51	8
			CONTRACT NO. 78881	
ILLINOIS FED. AID PROJECT				



* Advanced warning signage shall be placed in advance of Standard 701411 on I-64 Eastbound. Signage shall include Road Construction Ahead Signs, Portable Changeable Message Signs, Speed Limit 55 mph Ahead, Speed Limit 55 mph, and Speed Limit 45 mph Signs. The additional signage shall be included in the cost of TRAFFIC CONTROL AND PROTECTION (SPECIAL), L SUM. The locations of the additional signage will be directed and approved by the Engineer.

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 PROJECT: 78881
 OFFICE: District 9
 PROJECT: 78881
 COUNTY: CAD
 SHEETS: 51

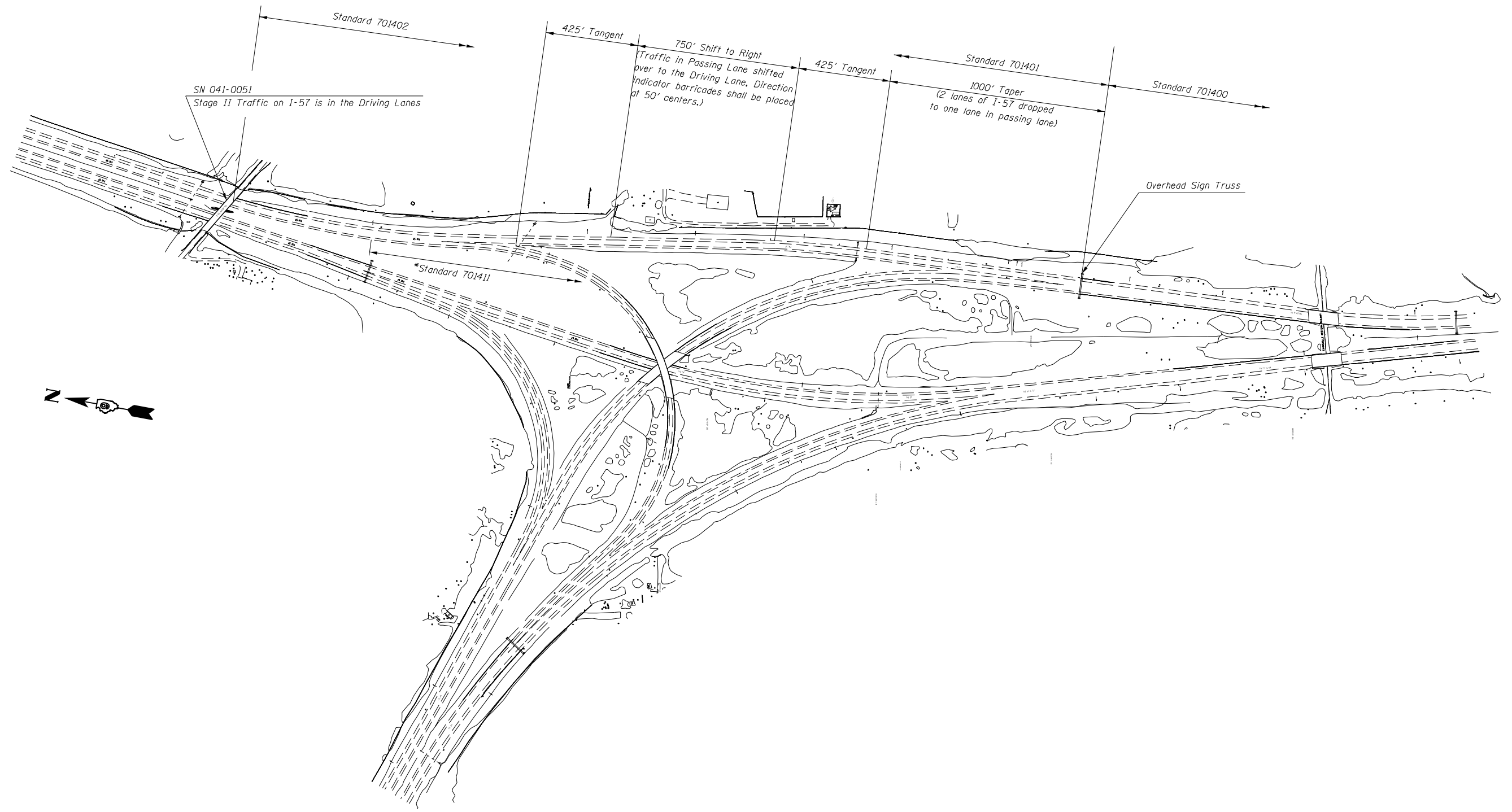
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	DRAWN -	REVISED -
PLOT SCALE = 500,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 6/24/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SN 041-0051 STAGE I TRAFFIC DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE PAINT 2022-1	VARIOUS	51	9
			CONTRACT NO. 78881	
ILLINOIS FED. AID PROJECT				



* Advanced warning signage shall be placed in advance of Standard 701411 on I-64 Eastbound. Signage shall include Road Construction Ahead Signs, Portable Changeable Message Signs, Speed Limit 55 mph Ahead, Speed Limit 55 mph, and Speed Limit 45 mph Signs. The additional signage shall be included in the cost of TRAFFIC CONTROL AND PROTECTION (SPECIAL), L SUM. The locations of the additional signage will be directed and approved by the Engineer.

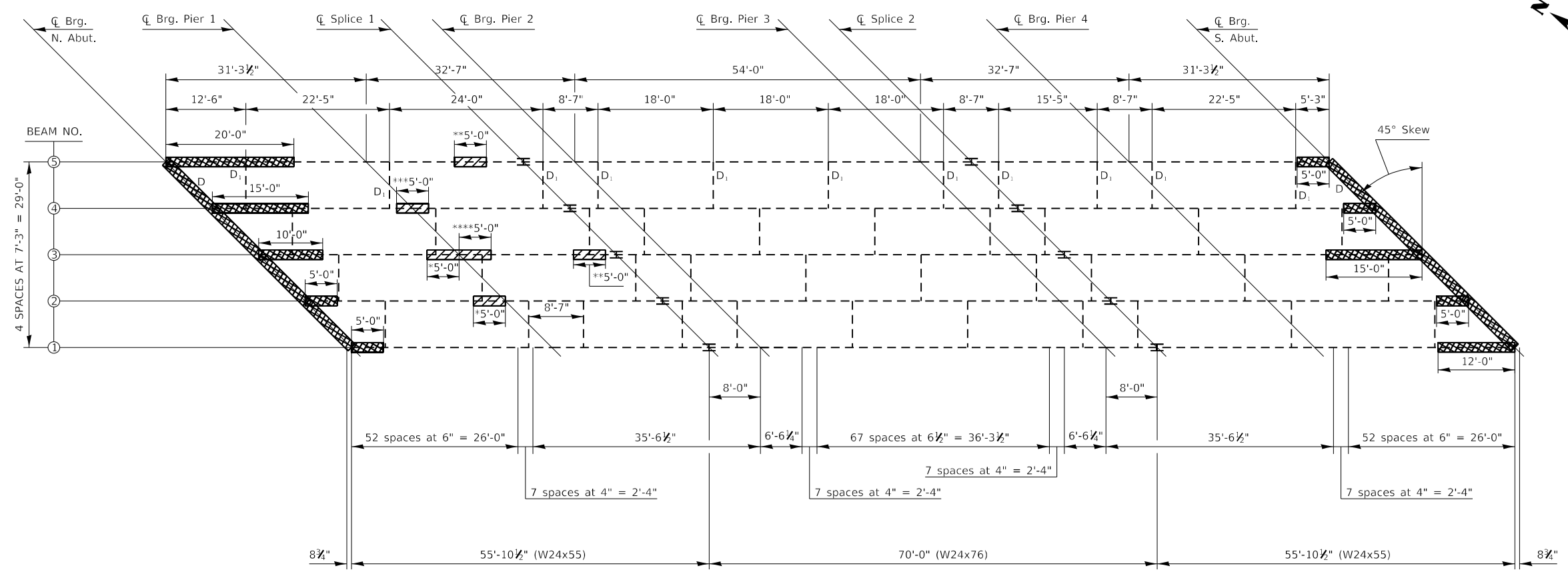
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USER NAME = klrbyea	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 500,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 6/24/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

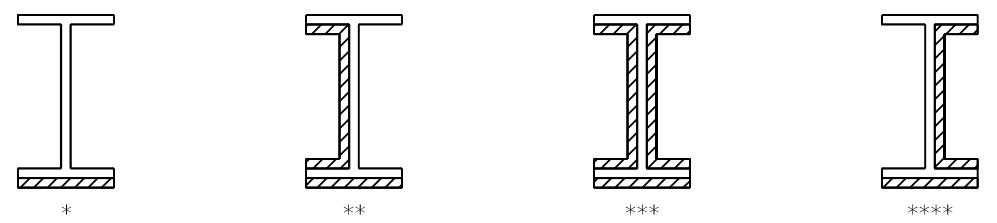
SN 041-0051 STAGE II TRAFFIC DETAILS				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE PAINT 2022-1	VARIOUS	51	10
			CONTRACT NO. 78881	
ILLINOIS FED. AID PROJECT				



FRAMING PAINT PLAN

 Paint as SSPC-10.
 Paint as SSPC-15.



BEAM PAINT AREAS
(LOOKING NORTH)

MODEL: Default
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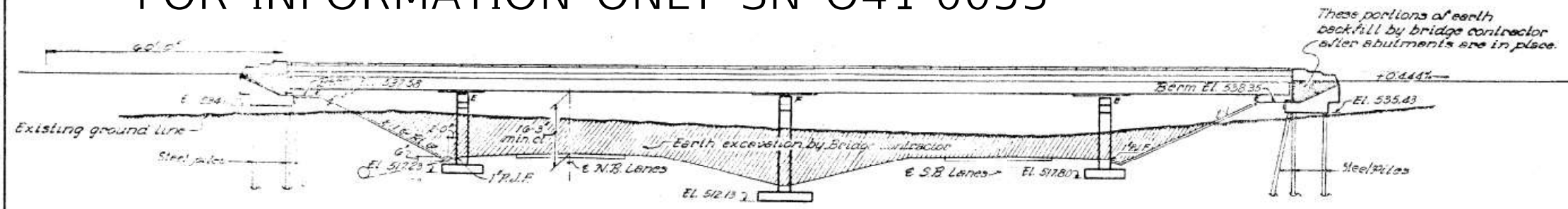
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DRAWN - _____	REVISIONS - _____	
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PLOT DATE = 7/14/2021	DATE - _____	REVISIONS - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

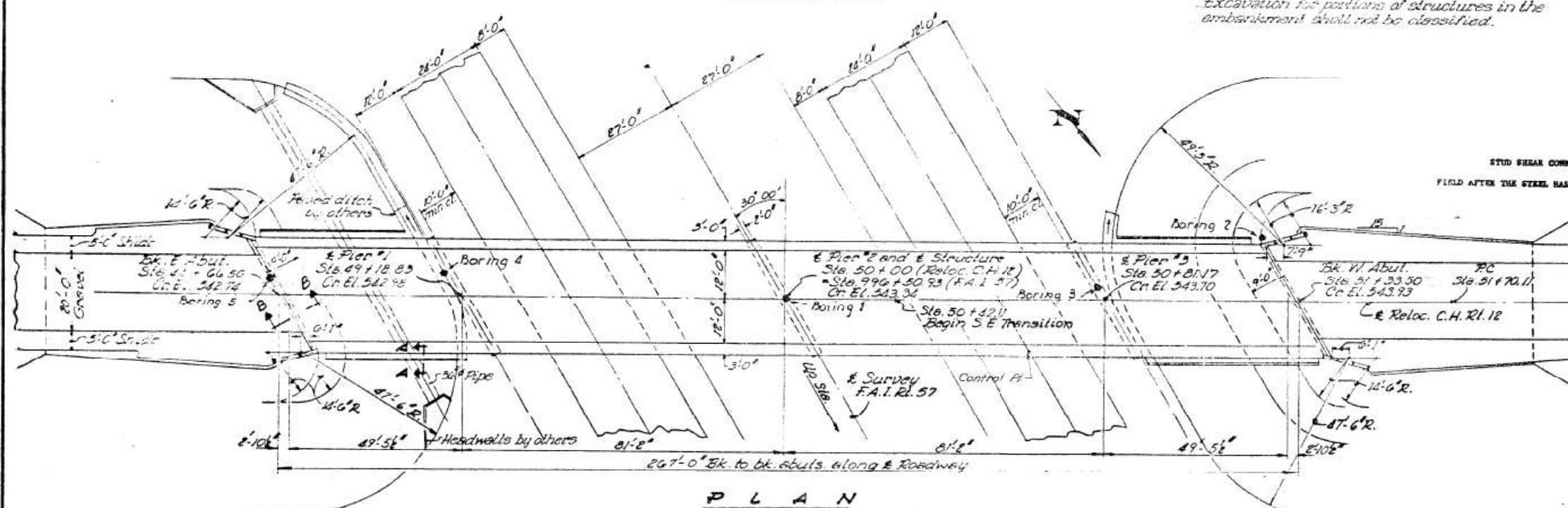
SN 044-0012 PAINT DETAILS	
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STA. _____	TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE PAINT 2022-1	VARIOUS	51	11
ILLINOIS			FED. AID PROJECT	
CONTRACT NO. 78881				

FOR INFORMATION ONLY SN 041-0053



ELEVATION

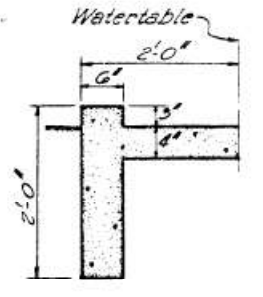


PLAN

CURVE DATA C.H. 12

L	= 80° 00'
D	= 8° 18'
T	= 579.74'
L	= 963.89'
R	= 690.91'
SE	= 0.08%
PI	= Sta. 571+49.85

(Chord Definition)



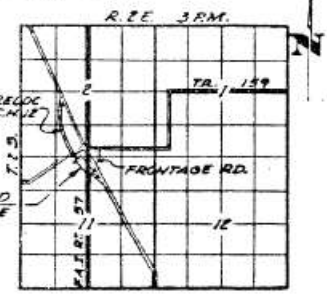
SECTION A-A

DESIGN STRESSES

f_c	= 1,400 psi	Super & Sub.
f_v	= 75 psi	Footings
f_s	= 20,000 psi	Reinforcement
f_b	= 20,000 psi	Struct. (A-30)

$n = 10$
Defl. allowable = $\frac{1}{1200}$ (Comp.)

LOADING HS15-44



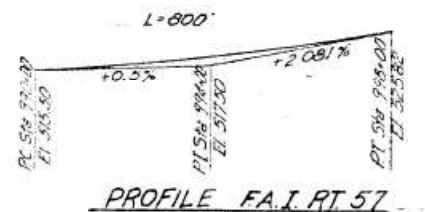
LOCATION PLAN

DESIGNED	P.H. Hogeman
CHECKED	J.B. O'Connell
DRAWN	J. Mullins
CHECKED	V.D.O.

EXAMINED	W.E. B...
PASSED	
APPROVED	W.E. B...

STATION 996+50.93
BUILT 19 BY
STATE OF ILLINOIS
F.A.I. RT. 57 SEC. 41-34B-3
F.A. PROJ. I-57-3(96)
LOADING HS15-44

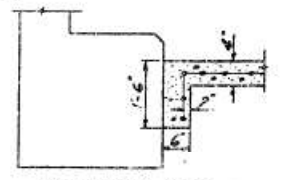
NAME PLATE
See Std. 2113-1



PROFILE F.A.I. RT. 57

GENERAL NOTES

Class X concrete shall be used throughout.
Coarse aggregate to be used in parapet handrails and end posts must be absolutely free of chert, flint, 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" x 6" mesh, weighing 58 lbs. per 100 sq. ft.
All reinforcement bars shall be lapped 20 diameters unless otherwise shown.
Rivets 3/4"; Open holes 1 1/2", 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 and 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 = 773 lbs.
Except as otherwise provided, all structural steel shall receive one shop coat of red lead and two field coats of aluminum paint. See Article 56.1 to 56.5 inclusive of the Standard Specifications.
The contractor shall drive one steel (8 BP36) test pile in a permanent location at the west abutment as directed by the engineer before ordering the remaining of piles.
Permanent forms will not be permitted in forming the concrete floor.



SECTION B-B

TOTAL BILL OF MATERIAL

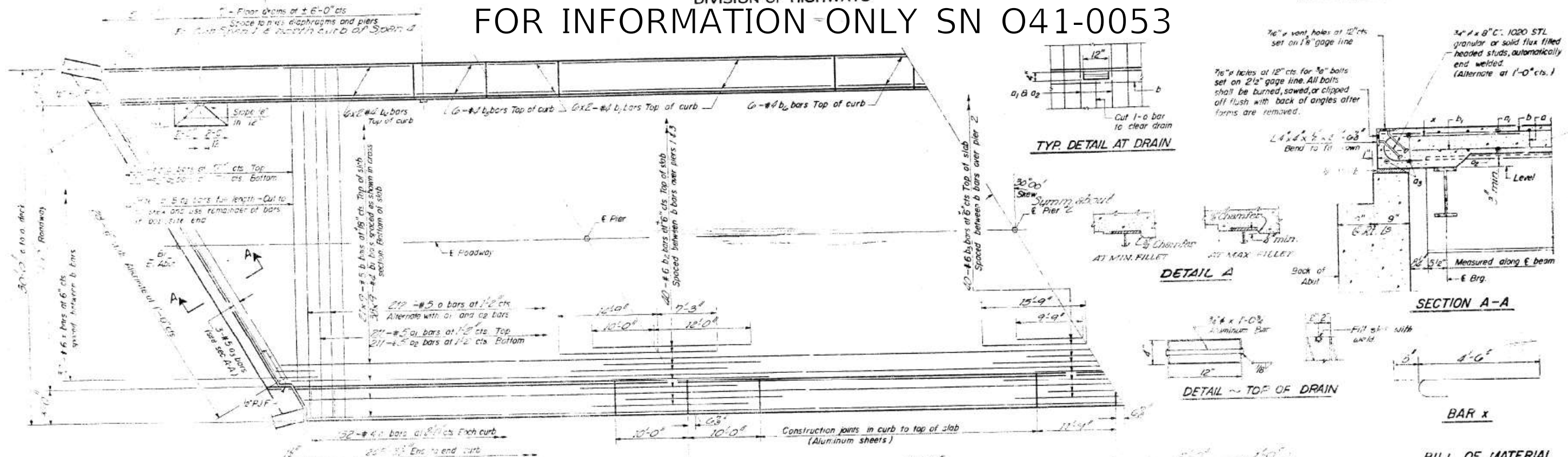
ITEM	UNIT	SUPER	SUB	TOTAL
Class A Excau. for Structures	Cu. yds.			72
Rock Excau. for Structures	Cu. yds.		84	84
Class X Concrete	Cu. yds.	255.6	220.5	476.3
Structural Steel	Lbs.	195,240		195,240
Reinforcement Bars	Lbs.	47,270	43,010	90,280
Alum. Handrail	Lin. ft.	527		527
Steel Piles (8 BP36)	Lin. ft.		279	279
Test Piles Steel (8 BP36)	Each		1	1
Name Plates	Each		2	2
Slope Wall 4"	Sq. yds.		417	417
Protective Coat	Sq. yds.		378	378

PROJ. I-57-3(96)99
GENERAL PLAN & ELEVATION
F.A.I. RT. 57 SEC. 41-34B-3
JEFFERSON COUNTY
STATION 996+50.93

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

FOR INFORMATION ONLY SN 041-0053

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-RT-57	41-3HB-3	Jefferson	51	16
				9 SHEETS



Note:
Bore indicated that 20x3 = 5 etc indicates 20 lines of bars with 3 lengths per line.
Min. bar laps = 20' o c

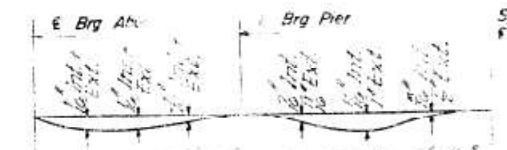
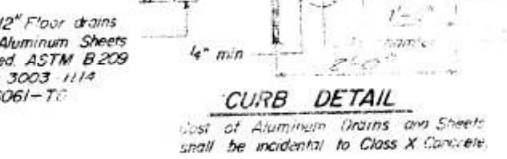
Optional construction joint, see Special Provisions. Not permitted with longitudinal joints.
Note: d & e bars are detailed on sheet 2. White joint sealed with horiz. fil. see Spcl. Provisions.
Bottom edge of 1/2" Aluminum Sheet ASTM B209 alloy 3003-H14

BILL OF MATERIAL

For	No	Size	Length	Shape
a	712	#5	30'-7"	
a1	137	#5	29'-7"	
a2	237	#5	29'-2"	
a3		#5	27'-5"	
b	149	#5	30'-3"	
b1	230	#5	30'-5"	
b2	90	#6	22'-0"	
b3	10	#6	25'-0"	
b4	43	#4	21'-0"	
b5	23	#4	9'-9"	
b6	24	#6	11'-6"	
c	264	#4	5'-9"	
x	64	#6	5'-2"	

Reinforcement Bars Lbs. 47,370
Structural Steel Lbs. 15,260
Class X Concrete Cu Yd. 253.8

* Weight of bearing assemblies with lead plates, and anchor bolts are included as structural steel. EST WT = 0,710.

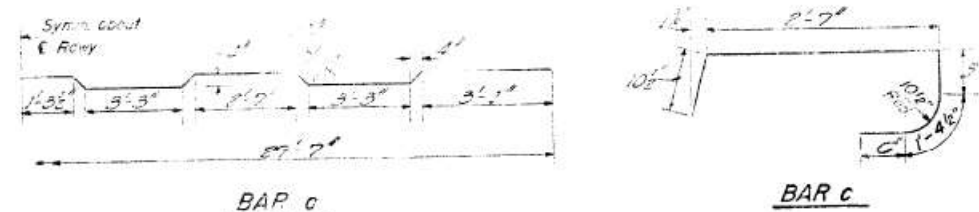


SUPERS RUCTURE
FAI-RT-57 SEC-41-3HB-3
JEFFERSON COUNTY
STATION 496 + 50.93

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 9. These elevations subtracted from the "Grade Elevations Adjusted for Dead Load Deflections" shown on sheet 9, minus slab thickness, equals the fillet heights "f" above top of beams.

DATE: JUNE 24 1964
DESIGNED: [Signature]
DRAWN: G. N. DL Betmer
APPROVED: [Signature]



MODEL: Defaul... FILE NAME: p... PROJECT: 78881... SHEETS: 51

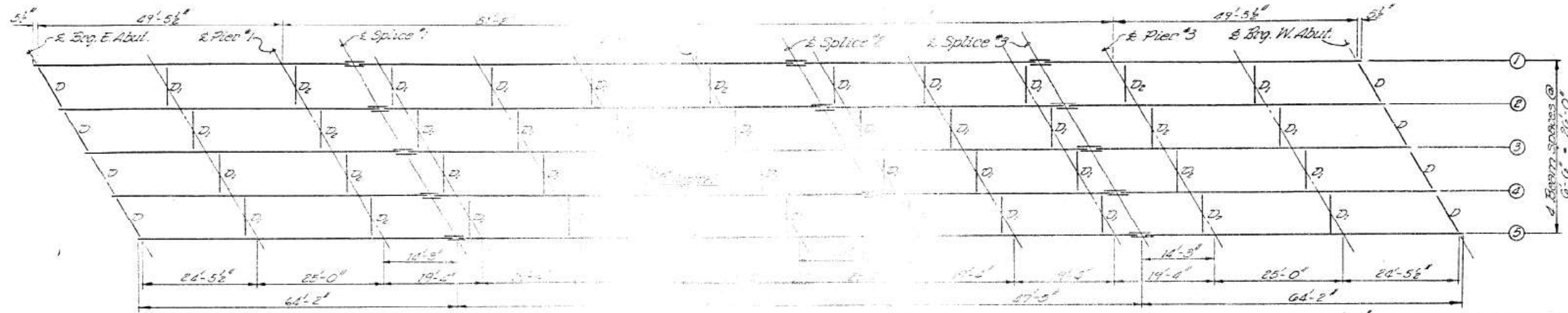
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PLOT SCALE = 100,000' / 1 in.	DRAWN -	REVISED -
PLOT DATE = 6/24/2021	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 041-0053

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D9	BRIDGE PAINT 2022-1	VARIOUS	51	13
				CONTRACT NO. 78881
ILLINOIS FED. AID PROJECT				



FOR INFORMATION ONLY SN 041-0053

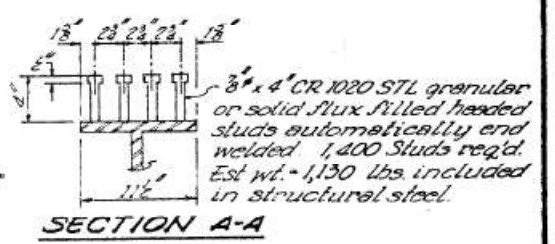
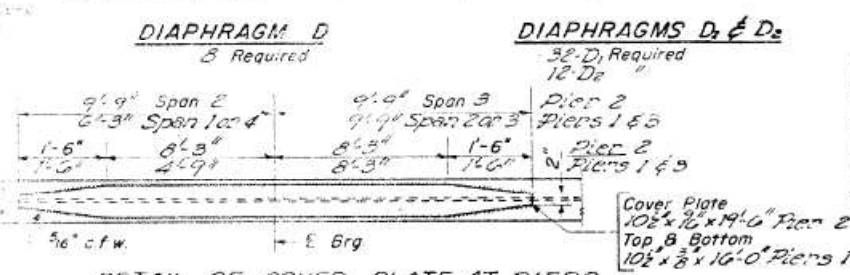
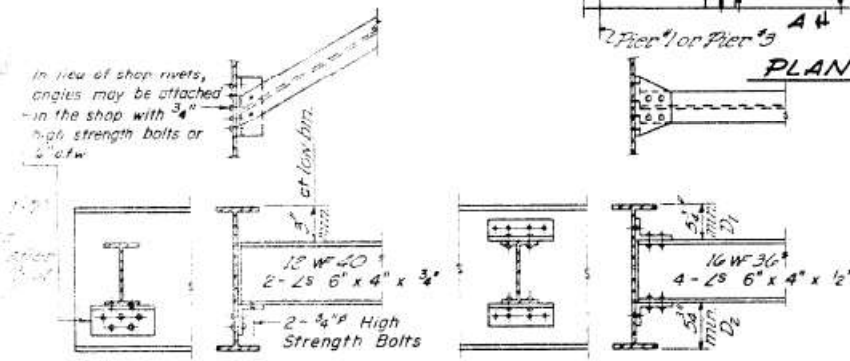
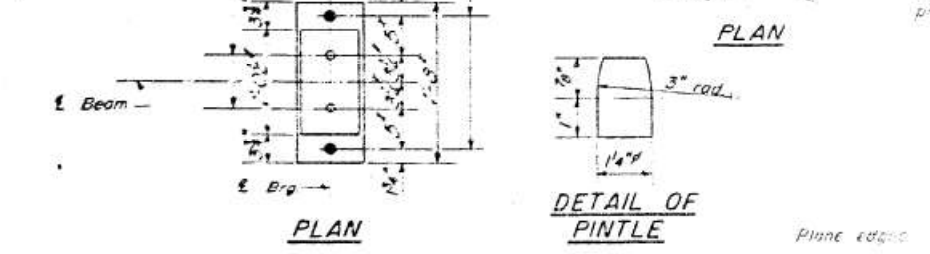
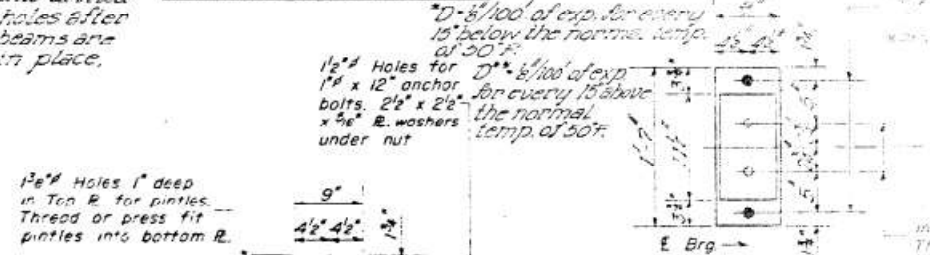
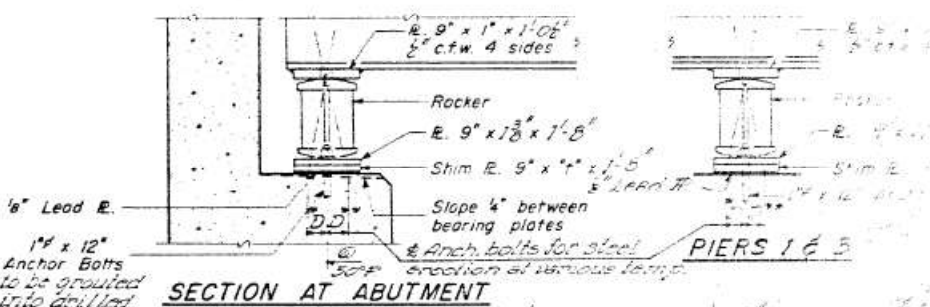
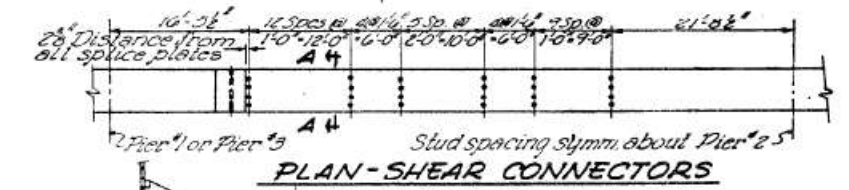
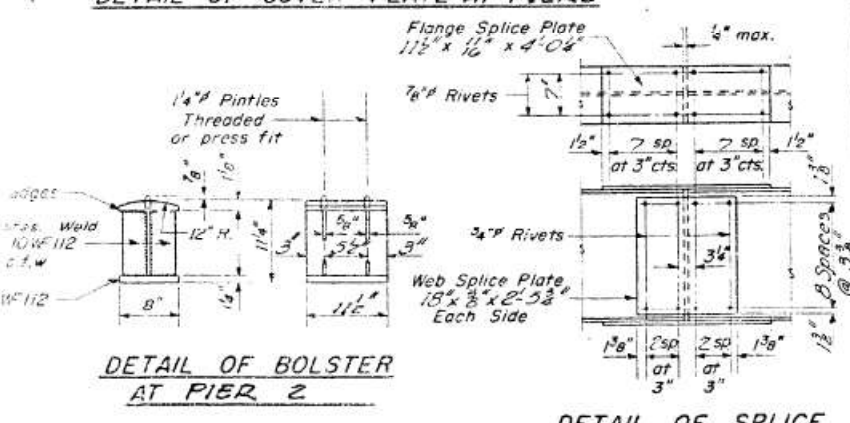


TABLE OF "E" DIMENSIONS

	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5
E. Abut.	0	2'	4'	0	0
Pier #1	0	2'	4'	0	0
Pier #2	0	2'	4'	0	0
Pier #3	0	0	0	0	0
W. Abut.	0	0	0	0	0

ELEVATION TOP OF WF

	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5
E. Brg. E. Abut.	542.03	542.18	542.20	542.18	542.10
Pier #1	542.20	542.31	542.37	542.35	542.27
Splice #1	542.25	542.36	542.42	542.40	542.32
Pier #2	542.55	542.66	542.72	542.70	542.62
Splice #2	542.64	542.75	542.81	542.79	542.71
Splice #3	542.95	543.02	543.02	542.93	542.96
Pier #3	543.11	543.18	543.10	542.96	542.77
E. Brg. W. Abut.	543.08	543.55	543.36	543.10	542.80



DESIGNED BY: G. W. Hayward
DRAWN BY: J. S. Carson
CHECKED BY: P. G. Barrett
APPROVED BY: W. A. Cousman Jr.
DATE: JUNE 24 1964

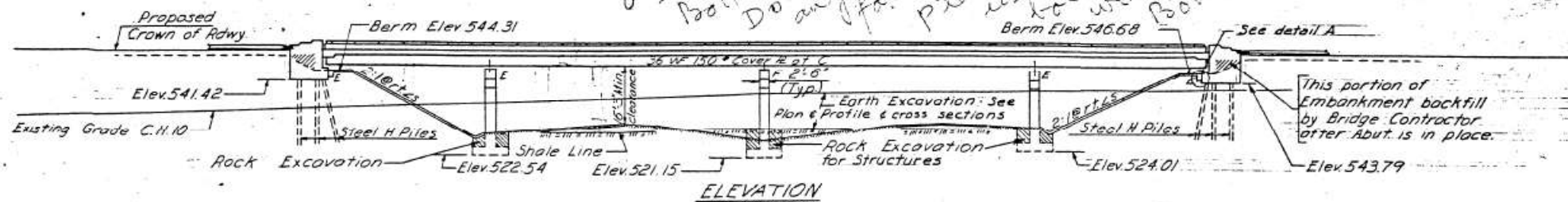
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PLOT SCALE = 100,000' / in.	DRAWN -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SN 041-0053	STRUCTURAL STEEL	F.A.I. RT. 57 SEC. 41-3H8-3
PLOT DATE = 6/24/2021	CHECKED -	REVISED -	JEFFERSON COUNTY	STATION 996 + 50.93	CONTRACT NO. 78881	TOTAL SHEETS 51
	DATE -	REVISED -				SHEET NO. 14

B.M.: Spike & Washer in root of 18" Elm 360' rt.
Station 879+20 Elevation 527.46

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

PROJECT NO.	4-38-2	JEFFERSON	42	13	10 SHEETS
DATE	5-1-57				
DESIGNED BY					
CHECKED BY					
DRAWN BY					
DATE					

use new 5" web straighten 2" web both. Flg. 2" web. Do not do anything for Flg. plates use new bolts for both Flg.

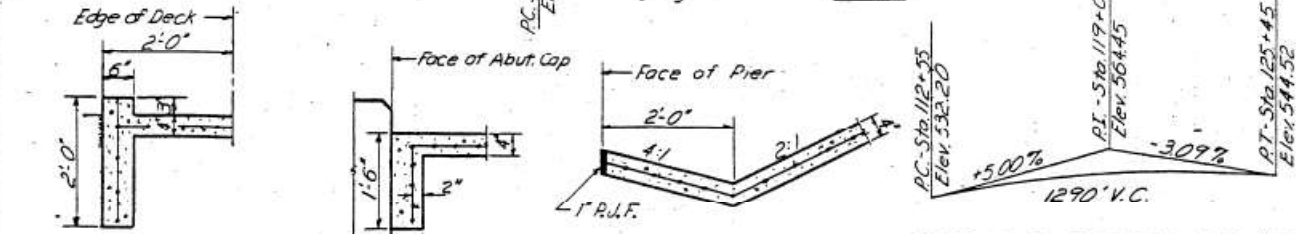
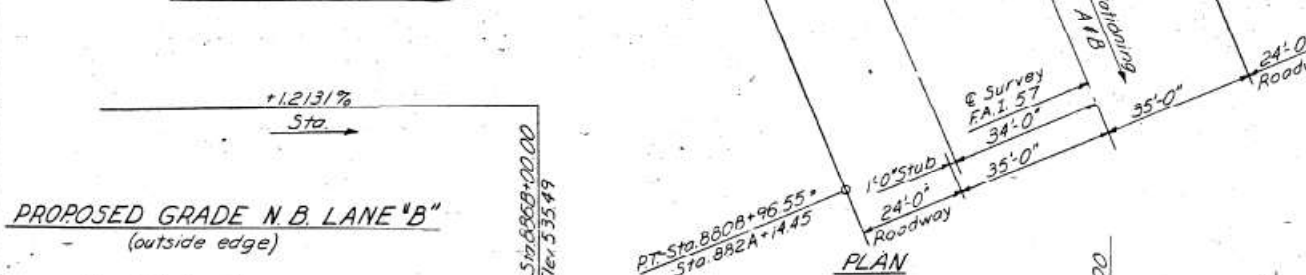
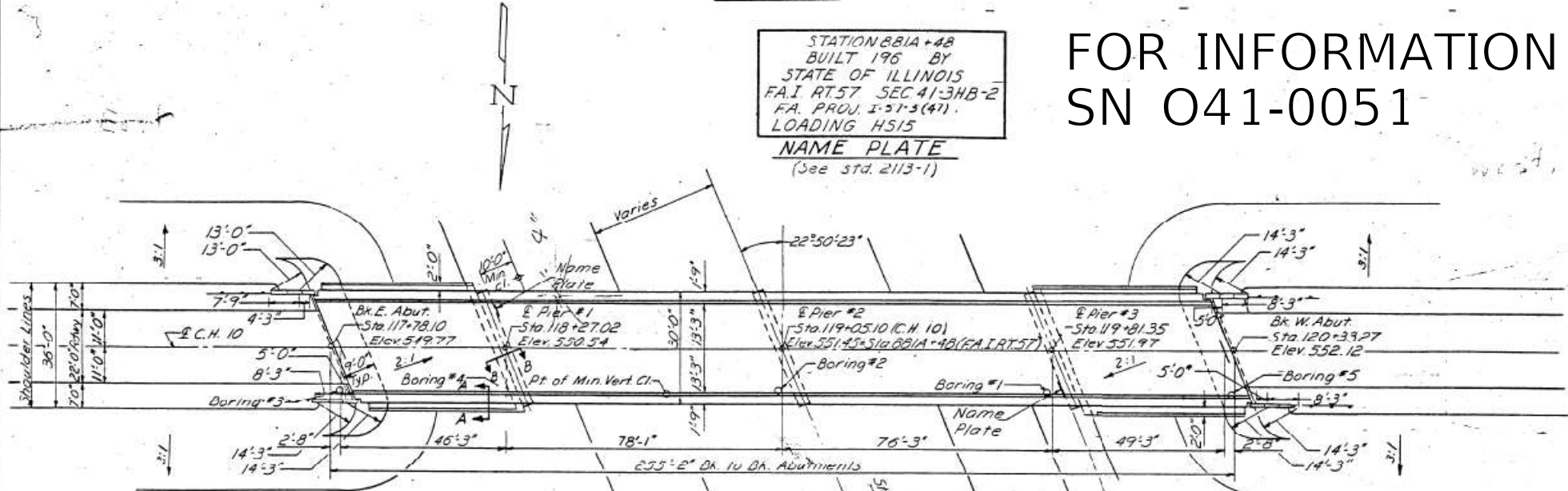


STATION 881A+48
BUILT 196 BY
STATE OF ILLINOIS
FA.I. RT.57 SEC.41-3HB-2
FA. PROJ. I-57-3(47)
LOADING HS15
NAME PLATE
(See Std. 2113-1)

FOR INFORMATION ONLY
SN 041-0051

Course aggregate to be used in parapet ha. trails and end post must be free of chert, flint, lim. shale, lignite and soft sandstone.
The concrete floor slab shall be finished in accordance with Art. 51.19 of the Standard Specifications.
Slope Wall shall be reinforced with welded wire fabric 6"x6" mesh, weighing 50# per 100 sq. ft.
All reinforcement bars shall be lapped 20 diameters unless otherwise shown.
All structural steel shall conform to A.S.T.M. Designation A-36.
Rivets 3/4" Open Holes 1 1/2" 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 = 800 lbs.
Except as otherwise provided, all structural steel shall receive one shop coat of red lead paint and two field coats of al. minium paint. See Art 56.1 to 56.5 inclusive of the Standard Specifications.
All Steel Piles shall be driven to refusal.
Permanent forms will not be permitted in forming the concrete deck.

The contractor shall drive one steel test pile of the East Abutment, in a permanent location, as directed by the Engineer before ordering the remainder of the piles.
Excavation for portions of structures in the embankments shall not be classified.
Excavation required for construction of slope wall shall not be classified.



DESIGNED *John Hayer*
CHECKED *George Al-Baft*
DRAWN *R.P. Summer*
CHECKED *George Al-Baft*

EXAMINED *Jan. 11 1966*
PASSED *[Signature]*
APPROVED *[Signature]*

CURVE DATA - EDGE OF P.V.T. "B"
P.I. Sta. 875 B+0124
Δ = 17° 28' 04"
D = 1° 27' 20"
R = 3936.10'
L = 1200.00'
T = 604.69'
E = 46.18'
S.E. = 0.041 Ft. per Ft.
Attained in 200'

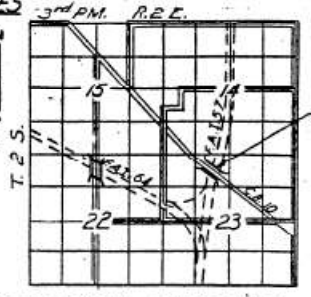
C.H. #10 CURVE DATA
P.I. Sta. 110+70.89
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D = 0° 45' 00"
R = 7639.44'
T = 628.08'
L = 1253.33'
S.E. = .02 Ft. per Ft.
Attained in 150'

C.H. #10 CURVE DATA
P.I. Sta. 129+44.27
Δ = 7° 27' 10"
D = 0° 45' 00"
R = 7639.44'
T = 497.55'
L = 993.71'
S.E. = .02 Ft. per Ft.
Attained in 150'

PROPOSED GRADE S.B. LANE
A' (Crown)

MAX. FOOTING PRESSURES
Pier 1 535 KSF
Pier 2 765 KSF
Pier 3 533 KSF

DESIGN STRESSES
fc = 1400 psi. Super. & Sub.
vc = 75 psi. Footing
fs = 20,000 psi. Reinf.
ts = 20,000 psi. Struct.
n = 10



LOCATION SKETCH

TOTAL BILL OF MATERIAL

Item	Unit	Super.	Sub.	Total
Class X Concrete	Cu. Yds.	2194	210.3	429.7
Protective Coat	Sq. Yds.	990		990
Structural Steel	Lbs.	183390		183390
Aluminum Handrail	Lin. Ft.	504		504
Reinforcement Bars	Lbs.	62730	179.0	30710
Steel Piles (BBP36)	Lin. Ft.		311	311
Test Piles Steel (BBP36)	Ea.		1	1
Name Plates	Ea.		2	2
Slope Wall (4')	Sq. Yds.		410	410
Rock Excavation for Struct.	Cu. Yds.		60	60

*Includes application on inside vertical face, top, and exposed ends of abutment wings.
FIELD WELDING OF CONSTRUCTION ACCESSORIES TO THE BOTTOM FLANGES OR FOR A DISTANCE OF 1/4 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.

041-0051

GENERAL PLAN & ELEVATION

C.H. 10 OVER FA.I. RT.57
FA.I. RT.57 SEC.41-3HB-2
JEFFERSON COUNTY
STA. 881A+48

Revised 7-19-66 J.R.H. [Changed Super. Reinf. Bars from 54280 lbs. to 59680 lbs.] Revised 11-18-66 [Changed Super. Reinf. Bars from 59680 lbs. to 61490 lbs., Changed Sub. Reinf. Bars from 17700 lbs. to 17980 lbs.]

USER NAME = klrbyea	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,000' / 1 in.	CHECKED -	REVISED -
PLOT DATE = 6/24/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

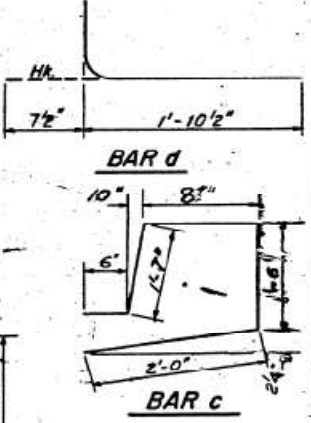
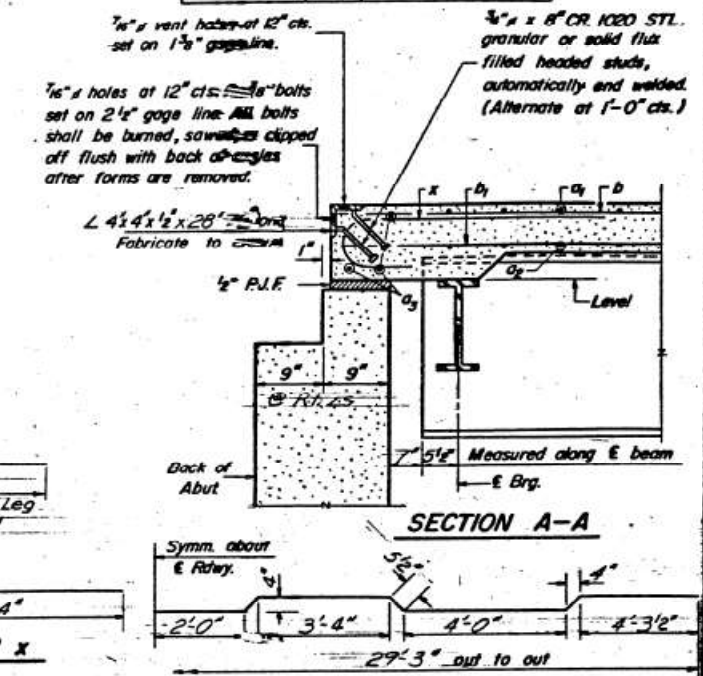
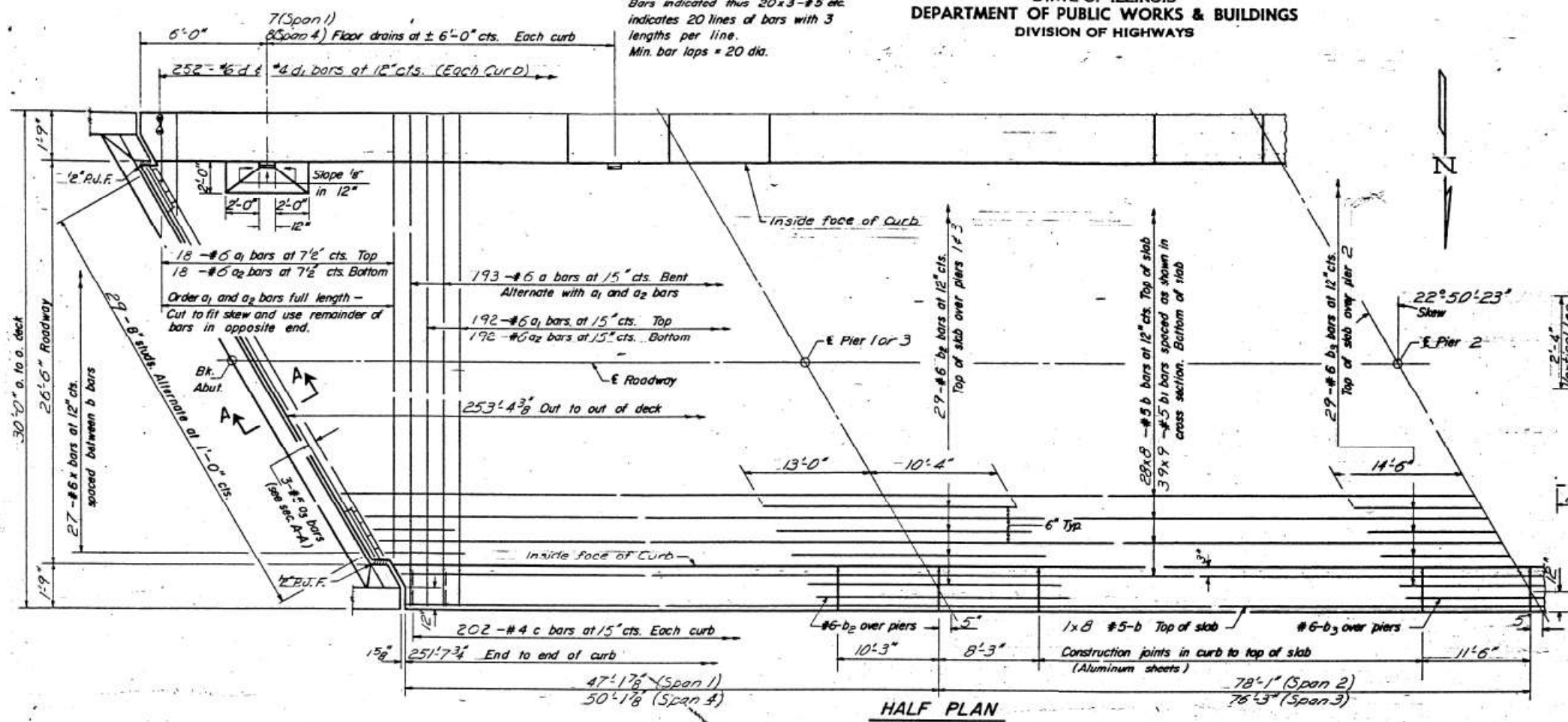
SN 041-0051
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE PAINT 2022-1	VARIOUS	51	15
CONTRACT NO. 78881			ILLINOIS FED. AID PROJECT	

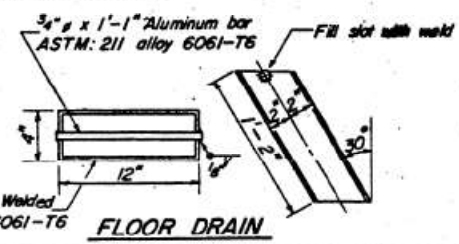
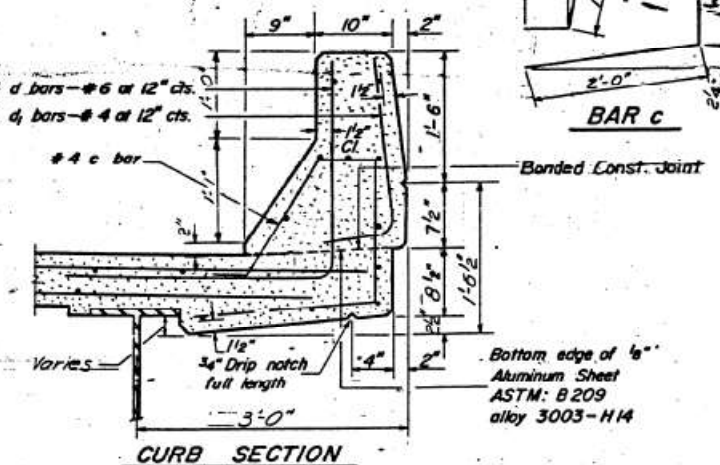
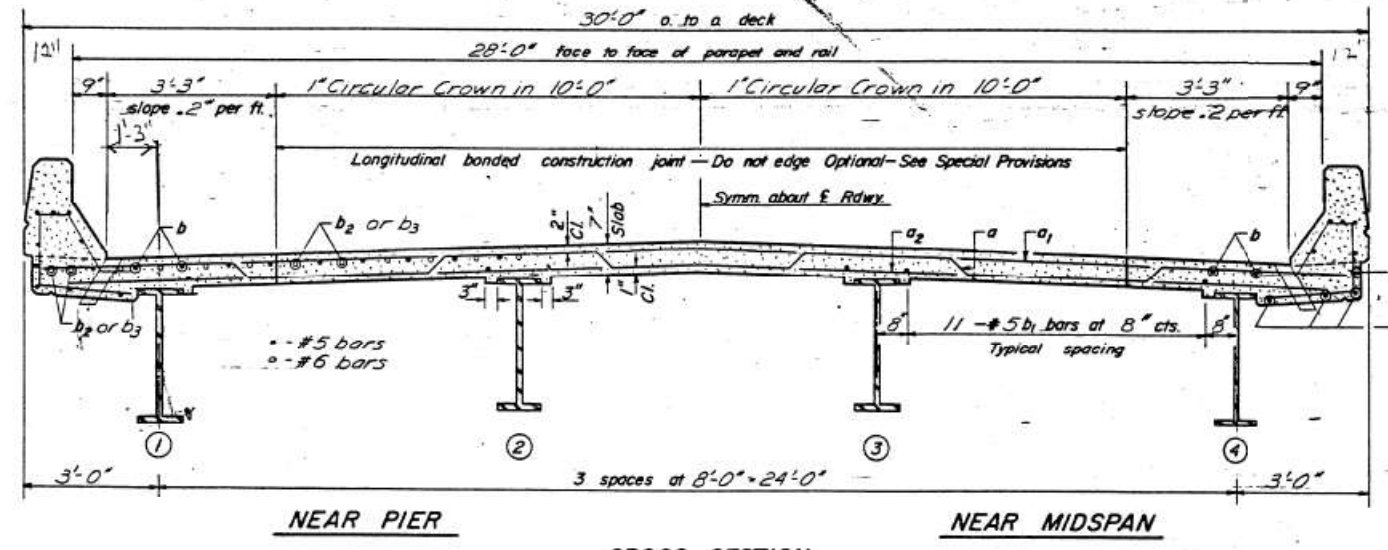
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

51	413HB2	JEFFERSON	42	15	10 SHEETS
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Note:
Bars indicated thus 20x3-#5 etc.
indicates 20 lines of bars with 3
lengths per line.
Min. bar laps = 20 dia.



BILL OF MATERIAL				
Bar	No.	Size	Length	Shape
a	193	#6	30'-0"	—
a1	210	#6	29'-3"	—
a2	210	#6	28'-10"	—
a3	6	#5	28'-5"	—
b	240	#5	32'-9"	—
b1	351	#5	29'-3"	—
b2	62	#6	23'-4"	—
b3	31	#5	29'-0"	—
c	404	#4	6'-0"	—
d	504	#6	5'-9"	—
d1	504	#4	2'-6"	—
x	54	#6	5'-0"	—
Reinforcement Bars		Lbs.	56840	
Structural Steel		Lbs.	185390	
Class X Concrete		Cu. Yd.	171.9	



* Weight of bearing assemblies with lead plates and anchor bolts are included as structural steel.
Est. Wt = 6200 lbs.

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

DESIGNED John Hays
CHECKED George A. Bapi
R.P. Sumner
DRAWN D.L. Beemer
CHECKED George A. Bapi

EXAMINED [Signature]
PASSED [Signature]
APPROVED [Signature]

JAN 11 1966

FOR INFORMATION ONLY
SN 041-0051

SUPERSTRUCTURE
F.A.I. RT. 57 SEC. 41-3HB-2
JEFFERSON COUNTY
STATION BB1A+48

Revised: 7-19-66 J.R.H. Changed 1/2" top of slab CI to 2" and Reinf. bars from 52220 lbs. to 57620 lbs.
Revised 11-18-66 J.R.H. Changed Reinf. Bars from 57620 lbs. to 59430 lbs.
Revised 5-31-67 J.R.H. Changed Curb, Changed Reinf. Bars from 59430 lbs. to 56840 lbs., Changed Class X Conc. from 193.5 Cu. Yds. to 171.9 Cu. Yds.

USER NAME = klrbyea	DESIGNED -	REVISED -	STATE OF ILLINOIS	SN 041-0051	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 100,000' / in.	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION	SCALE:	VAR	D9 BRIDGE PAINT 2022-1	ILLINOIS	51	16
PLOT DATE = 6/24/2021	CHECKED -	REVISED -		SHEET	OF		FED. AID PROJECT		
	DATE -	REVISED -		STA.	TO				

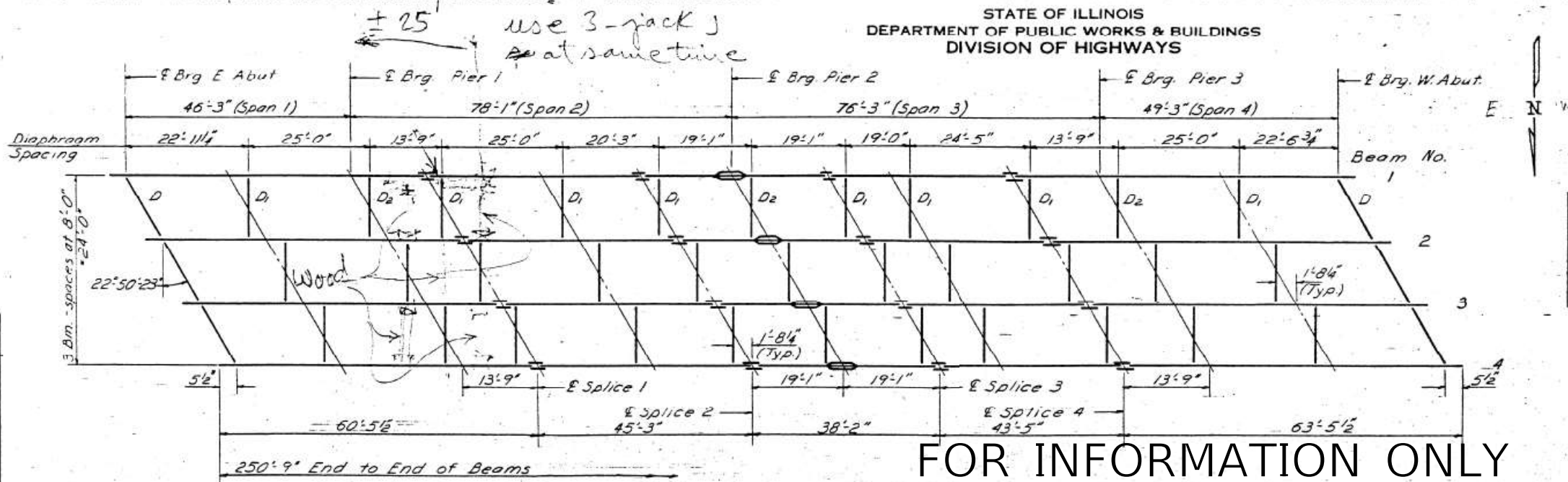
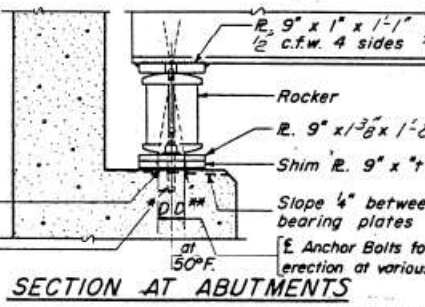


TABLE OF MOMENTS AND REACTION INTERIOR BEAMS

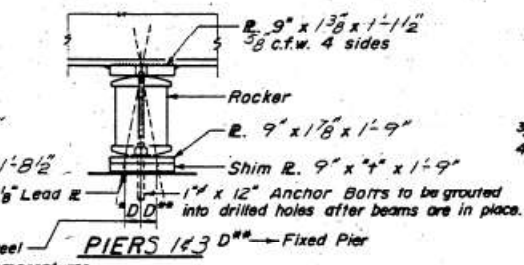
LOC.	Moment (Kip-Ft)					Reactions (Kips)						
	4 Sp 1	Pier 1	5 Sp 2	Pier 2	5 Sp 3	Pier 3	6 Sp 4	E. Abut	Pier 1	Pier 2	Pier 3	W. Abut
D. L.	1197	4971	3276	743	2913	4811	1655	179	848	1024	842	206
L. L.	2544	2889	3623	3739	3600	2853	2760	301	408	450	407	306
I.M.P.	743	794	891	924	893	787	792	8.8	11.2	11.1	11.2	8.8
TOTAL	4484	8654	7790	12076	1406	8451	5207	568	1368	1585	1361	600

FOR INFORMATION ONLY
SN 041-0051

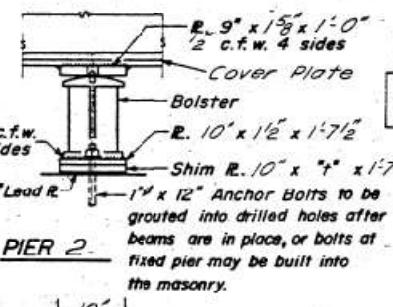
FRAMING PLAN
(all beams are 36 W 150)



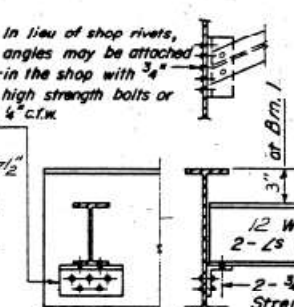
SECTION AT ABUTMENTS



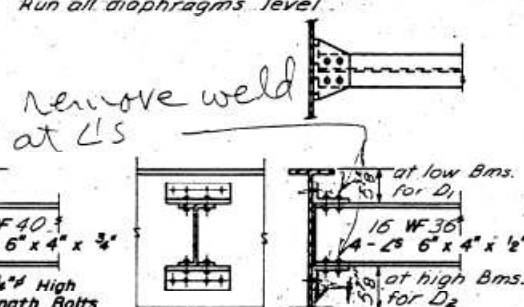
PIERS 1 & 3



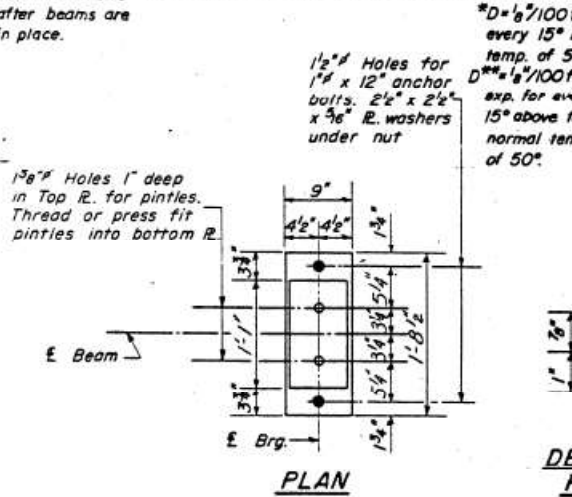
PIER 2



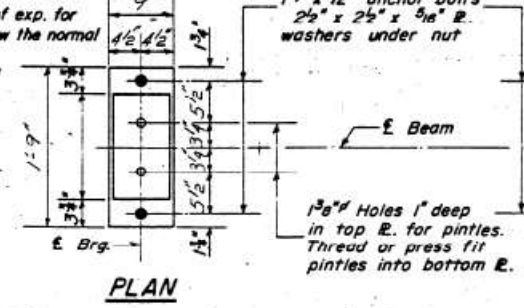
DIAPHRAGM D



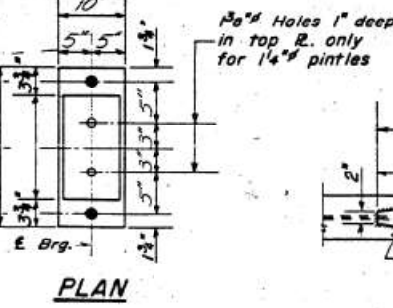
DIAPHRAGM D1 & D2



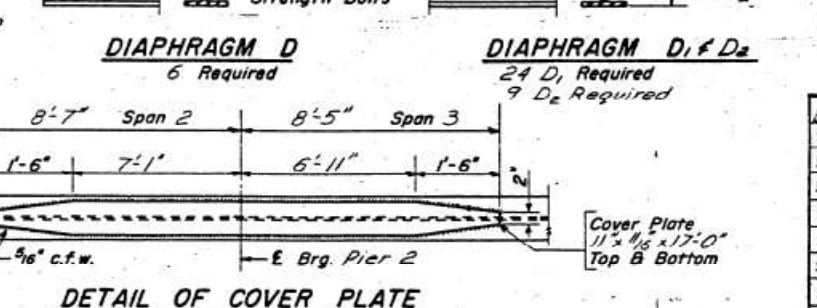
PLAN



PLAN

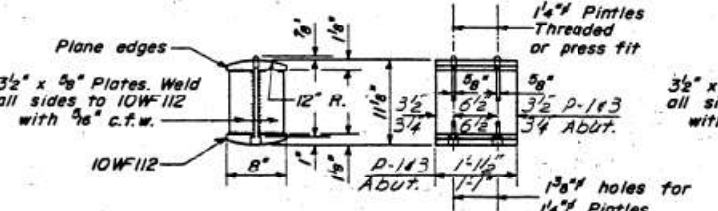


PLAN

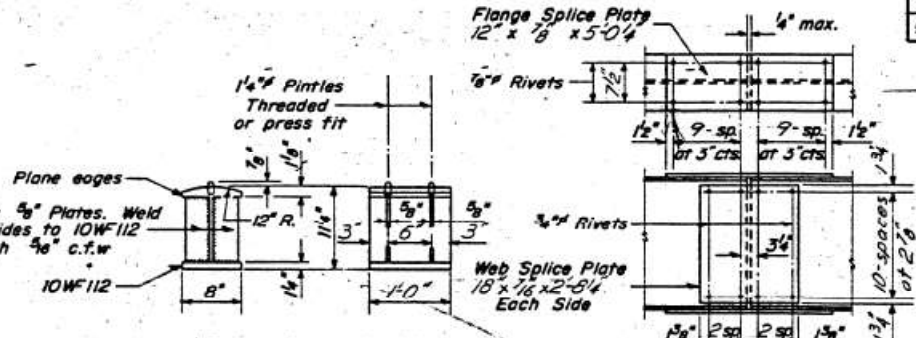


DETAIL OF COVER PLATE

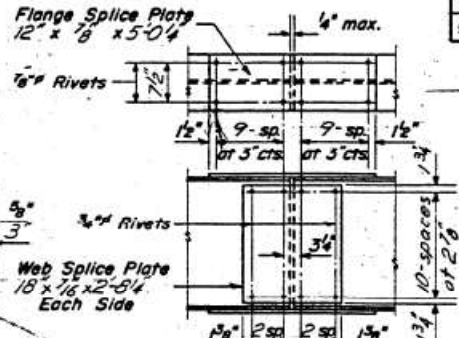
DESIGNED: John Hayes
CHECKED: George A. Bani
DRAWN: W. A. Soussan Jr.
APPROVED: J. E. Smith



DETAIL OF ROCKER AT ABUTS. & PIERS 1 & 3



DETAIL OF BOLSTER AT PIER 2



DETAIL OF SPLICE

4" DIMENSIONS

Location	Beam	Bm.1	Bm.2	Bm.3	Bm.4
E. Brg. E. Abut.		0"	0"	58"	18"
E. Brg. Pier 1		0"	18"	34"	0"
E. Brg. Pier 2		0"	58"	18"	0"
E. Brg. Pier 3		0"	0"	18"	12"
E. Brg. W. Abut.		0"	0"	0"	18"

ELEVATION TOP OF WF

Location	Beam	Bm.1	Bm.2	Bm.3	Bm.4
E. Brg. E. Abut.		549.05	549.21	549.27	549.22
E. Brg. Pier 1		549.74	549.89	549.94	549.88
E. Splice 1		549.94	550.09	550.14	550.08
E. Splice 2		550.48	550.62	550.66	550.58
E. Brg. Pier 2		550.66	550.80	550.83	550.75
E. Splice 3		550.84	550.97	550.99	550.91
E. Splice 4		551.15	551.27	551.29	551.20
E. Brg. Pier 3		551.21	551.33	551.34	551.25
E. Brg. W. Abut.		551.42	551.53	551.53	551.43

STRUCTURAL STEEL
F.A.I. RT57 SEC. 41-3HB-2
JEFFERSON COUNTY
STATION 881A+48

I-2-C 1-2-62 Rev. 11-9-62 Rev. 8-16-63 Rev. 12-10-63

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 849	I4BR	HAMILTON	18	7
ILLINOIS FED. AID PROJECT				

Bridge Sheet 1 of 12.

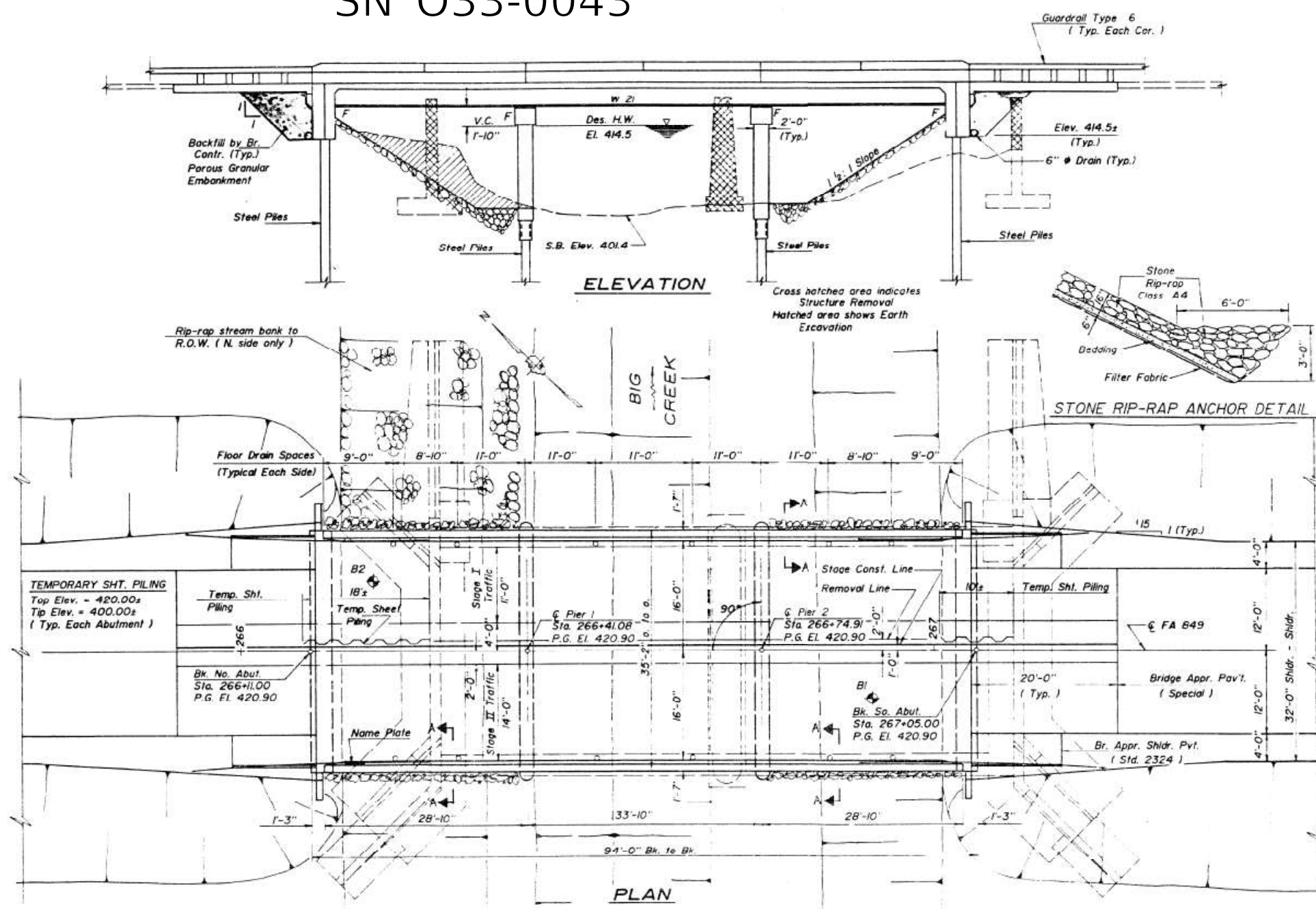
Exist. Struct. : #033-0011, Two simple span R.C. Deck girder on solid R.C. pier and closed abuts. Built 1928 and widened in 1953. Texas style handrail. Bridge is 36'-4" o. to o., 86'-0" dk. to bk. To be removed in stages to allow one way traffic at all times. No salvage.

B.M. #1: Chiseled "D" on N.W. Wingwall of Existing Bridge. Elev. 421.34

FOR INFORMATION ONLY
SN 033-0043

GENERAL NOTES

- Fasteners shall be high strength bolts AASHTO M164. Bolts 3/4"Ø, open holes 13/16" unless otherwise noted.
- Calculated weight of structural steel equals 36,249 pounds. (M223 = 29.772) (M183 = 6.477)
- The Zinc Silicate and Vinyl Paint System shall be used for shop and field painting of structural steel, except where otherwise noted. The color of the vinyl finish coat shall be Munsell No. 7.5G 4/E.
- Field welding of construction accessories will not be permitted to the bottom flange of beams nor to the top flange for a distance equal to one-fourth the span length each way from the pier supports. Field welding in other areas will be permitted only when approved by the Engineer.
- 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 beam and all splice plate material except fill plates.
- Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42 or M-53 Grade 60.
- Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
- For Boring Data see Sheet 12.
- Contractor shall drive one (1) test pile at a permanent location as directed by the Engineer at each abutment prior to ordering the remainder of piles.
- 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.



TOTAL BILL OF MATERIALS				
ITEM	UNIT	SUB	SUPER	TOTAL
Class X Concrete	Cu. Yd.	120.0		120.0
Class X Concrete-Superstructure	Cu. Yd.		18.0	18.0
Furnishing & Erecting Structural Steel	L. Sum			
Earth Excavation	Cu. Yd.	350		350
Reinforcement Bars	Pounds	8090		8090
Reinforcement Bars (Epoxy Coated)	Pounds	1380	26410	27790
Name Plate	Each		1	1
Furnishing Piles-Steel HP 10x42	Lin. Ft.	794		794
Test Piles-Steel HP 10x42	Each	2		2
Driving Steel Piling	Lin. Ft.	794		794
Stone Riprap Class A4	Sq. Yd.	410		410
Floor Drains	Each		12	12
**Protective Coat	Sq. Yd.		450	450
Removal of Existing Structures	Each		1	1
Pipe Underdrain 6" (Special)	Lin. Ft.	120		120
Porous Granular Embankment	Cu. Yd.	80		80
Filter Fabric for use with Rip-rap	Sq. Yd.	410		410
Metal Shoe	Each	18		18
Temporary Sheet Piling	Sq. Ft.	560		560
Embankment	Cu. Yd.	210		210

** Includes Top of bridge deck.

STATION 226+58.00
BUILT 19... BY
STATE OF ILLINOIS
FAP 849 SECTION I4BR
LOADING HS-20
STR. NO. 033-0043

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

James P. Wilson
Registered Structural Engineer

NAME PLATE
(See Std. 2113)

SECTION A-A



GENERAL PLAN & ELEVATION

F.A. RTE. 849 (S.B.I. RTE. 142) over BIG CREEK
SECTION I4 BR
HAMILTON COUNTY
STATION 266+58.00
S.N. 033-0043

GREENE & BRADFORD, INC.
CONSULTING ENGINEERS
100 STEVENSON DR. 217/525-6448 SPRINGFIELD, IL

PAVEMENT PROFILE

Sta.	Elev.
Sta. 264+00	EI. 420.10
Sta. 265+00	EI. 420.70
Sta. 266+00	EI. 420.90
Sta. 267+00	EI. 420.86
Sta. 268+00	EI. 420.91
Sta. 269+00	EI. 420.56
Sta. 270+00	EI. 420.17

WATERWAY INFORMATION

Drainage Area: 18.4 sq. mi. Low Grade Elev. 419.23 at Sta. 260+00

Flood	Freq.	Q	Opening Sq. Ft.	Nat.	Head - Ft.	Headwater El.		
Design	50	3935	760	800	414.5	1.0	415.5	415.4
Base	100	4510	775	820	414.7	1.3	416.0	415.8
Max. Calc.	500	5795	810	850	415.1	1.8	416.9	416.7

DESIGN STRESSES

$f_c = 3,500$ p.s.i.
 $f_y = 60,000$ p.s.i. (Reinf.)
 $f_y = 50,000$ p.s.i. (Str. St. Gr. 50 M223)

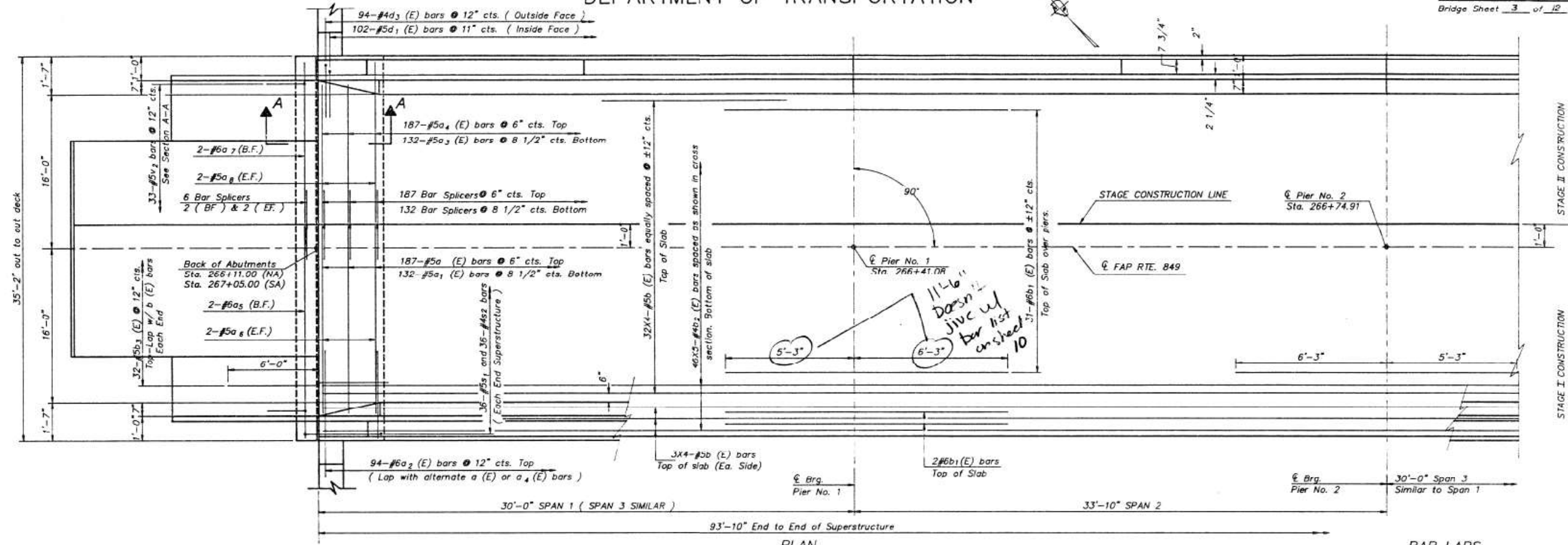
LOADING HS20-44
Design Specifications: 1989 A.A.S.H.T.O.
Allow 25 # / Sq. Ft. for future surface.

REV 3-21-90 BY HLL. CHANGED STONE RIPRAP CLASS A4 AND FILTER FABRIC FOR USE WITH RIPRAP FROM 860 TO 410 66.49

USER NAME	DESIGNED	REVISION	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SN 033-0043	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
klrbyea	-	-			D9	BRIDGE PAINT 2022-1	VARIOUS	51	18
PLOT SCALE = 100,000' / in.	CHECKED	REVISION			ILLINOIS FED. AID PROJECT				
PLOT DATE = 6/24/2021	DATE	REVISION			CONTRACT NO. 78881				

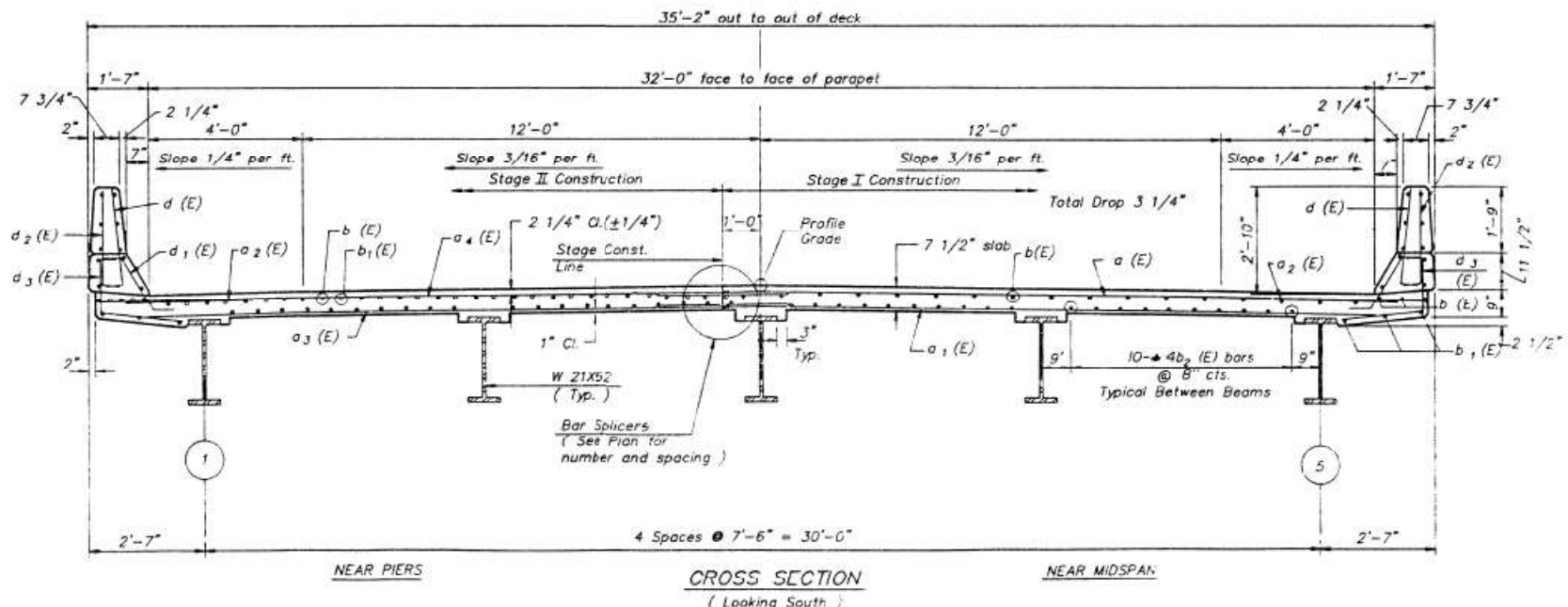
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 849	114BR	HAMILTON	18	9
FHWA RECORDS ILLINOIS FED. AID PROJECT				
Bridge Sheet 3 of 12				



FOR INFORMATION ONLY
SN 033-0043

FOR SECTION A-A
SEE SHEET NO. 11.



BAR LAPS

#4 bars	1'-4"
#5 bars	1'-8"
#6 bars	2'-0"
#8 bars	3'-8"

NOTES: See Sheet # 4 of 12 for superstructure details and Bill of Materials.
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 # 4 of 12 for parapet reinforcement.
See Sheet # 6 of roadway plan sheet for additional details of Stage Construction.

SUPERSTRUCTURE

FAP RTE 849 / BIG CREEK
SECTION 114BR
STATION 266+58.00
HAMILTON COUNTY

GREENE & BRADFORD, INC.
OF SPRINGFIELD
CONSULTING ENGINEERS
1015 N. 11TH ST., SPRINGFIELD, ILL. 62761
8653752

USER NAME = klrbyea	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 6/24/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 033-0043

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE PAINT 2022-1	VARIOUS	51	19
CONTRACT NO. 78881				
ILLINOIS FED. AID PROJECT				

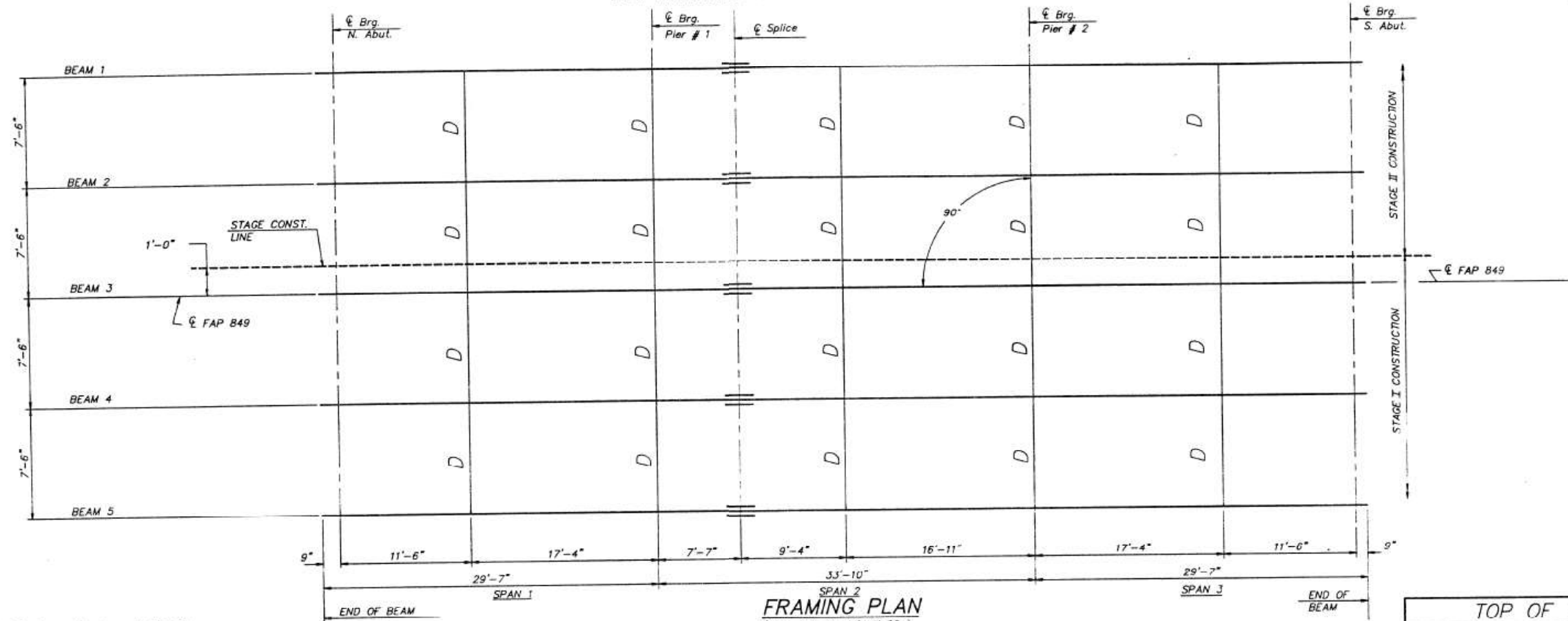
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 PLOT DATE: 6/24/2021

FOR INFORMATION ONLY
SN 033-0043

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 849	114BR	HAMILTON	16	11
F.H.W.A. REG. NO. 5 ILLINOIS (FED. AID PROJECT)				

Bridge sheet 5 of 12

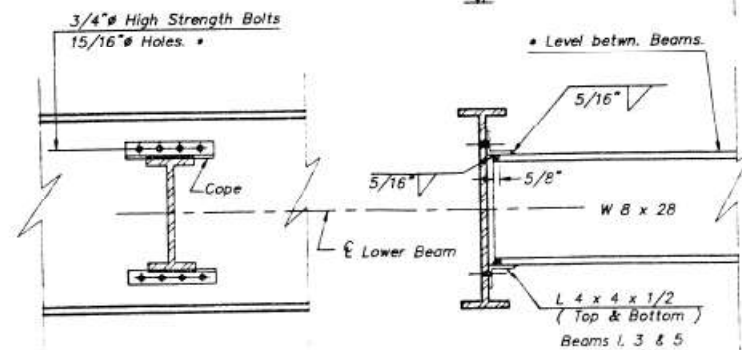


N.T.R. = Notch Toughness Requirement Zone 2.

* Beams ② and ③ shall have 1 1/2" long x 13/16" slotted holes for the intermediate diaphragm connection. The slotted holes shall have a 5/16" plate washer placed over them. Bolts shall be finger tightened until the placement of Stage II deck concrete. Long dimension of slot shall be vertical.

TOP OF WF ELEVATION *						
Location	Beam	①	②	③	④	⑤
N. Abut.		419.921	420.054	420.171	420.054	419.921
Pier # 1		419.921	420.054	420.171	420.054	419.921
Splice		419.921	420.054	420.171	420.054	419.921
Pier # 2		419.921	420.054	420.171	420.054	419.921
S. Abut.		419.291	420.054	420.171	420.054	410.921

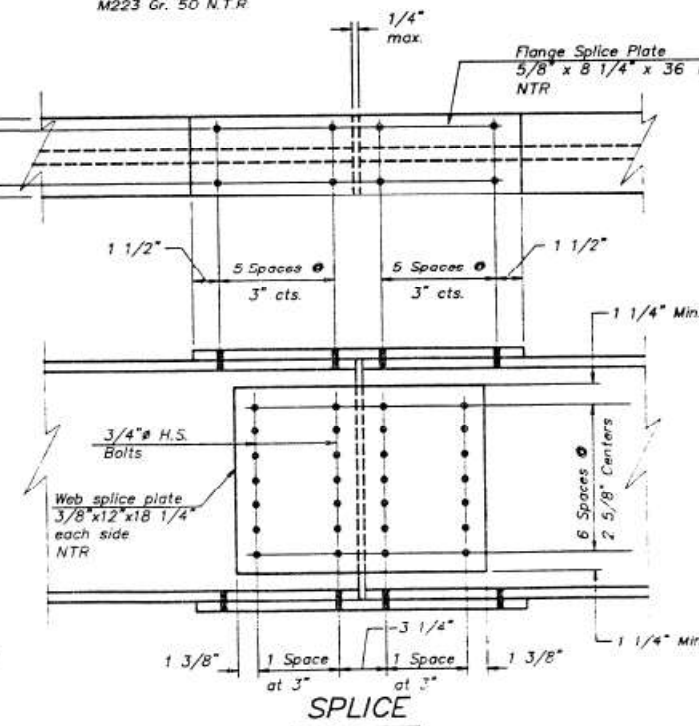
* Fabrication Only



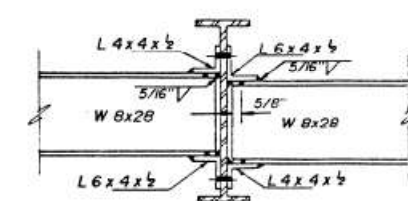
NOTE: Two hardened washers shall be required over all 15/16" holes. All contact surfaces of joints shall be free of paint or loquer.

DIAPHRAGM D
2U Required

NOTE: All splice plate material shall be M223 - Gr. 50 structural steel and subject to NTR.



SPlice



DIAPHRAGM D,
at Beams 2 and 4
(Beam 4 is shown)

FRAMING PLAN
FAP RTE. 849 / BIG CREEK
SECTION 114BR
STATION 206+58.00
HAMILTON COUNTY

GREENE & BRADFORD, INC.
CONSULTING ENGINEERS
www.greenebradford.com (618) 223-8888
88537FF

USER NAME = klrbyea	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 6/24/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 033-0043

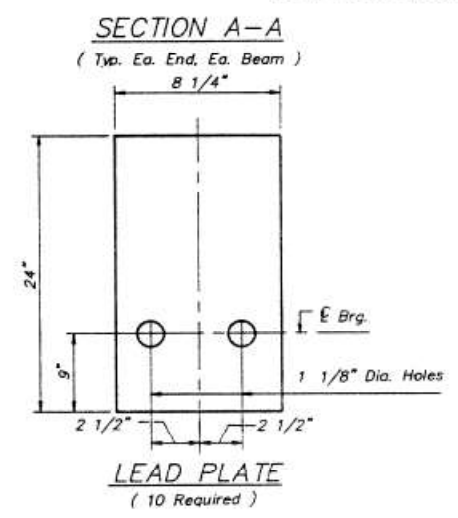
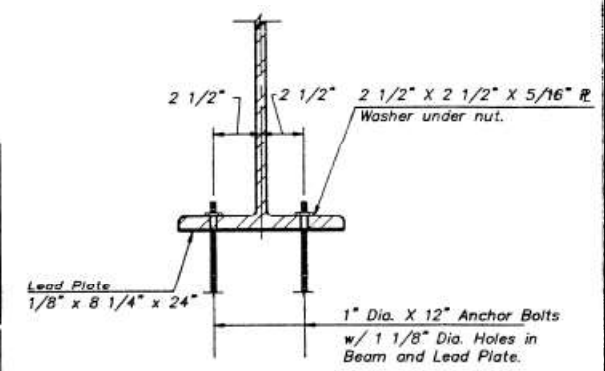
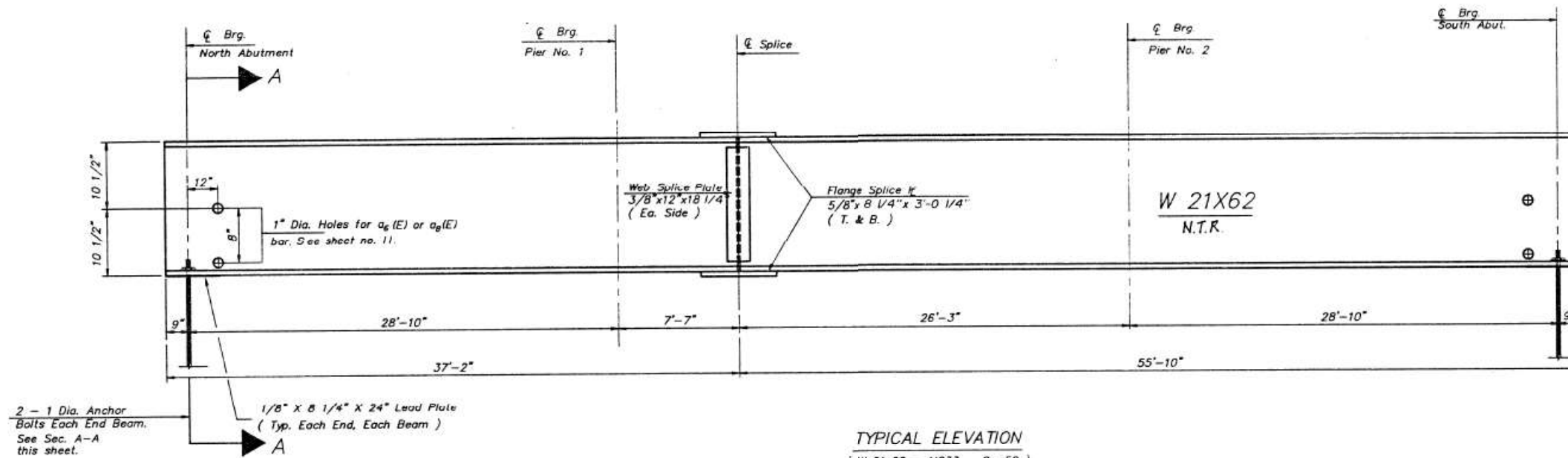
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE PAINT 2022-1	VARIOUS	51	20
CONTRACT NO. 78881				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY
SN 033-0043

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 849	114BR	HAMILTON	18	12
F.H.W. REG. NO. 5 ILLINOIS FED. AID PROJECT -				
Bridge Sheet 6 of 12				



TYPICAL ELEVATION
(W 21x62 - M233 Cr. 50)

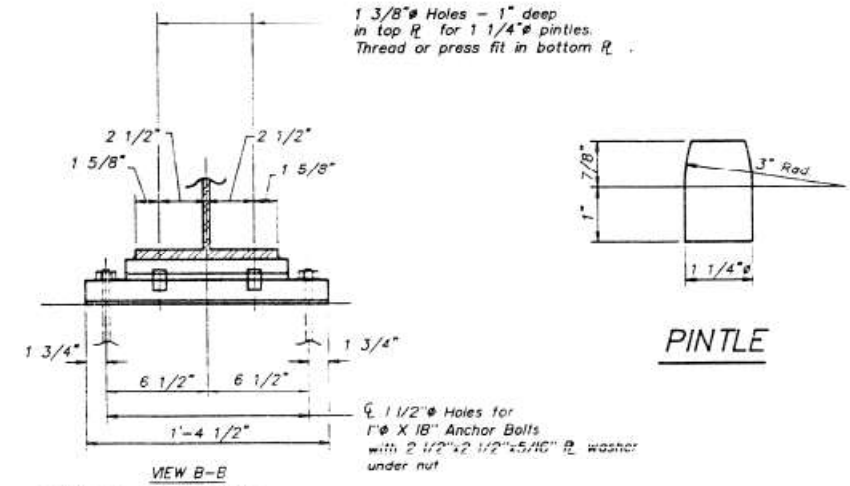
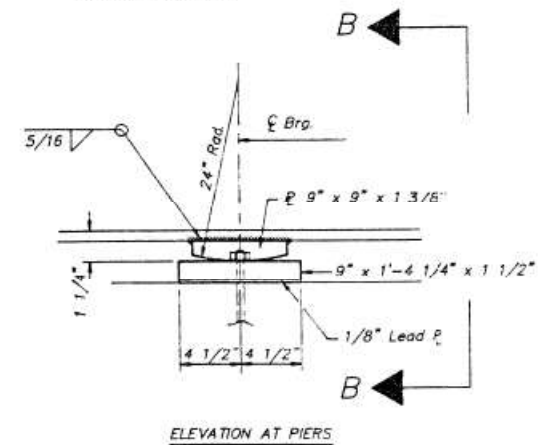
NOTES

I_x and S_x are the moment of inertia and section modulus of the steel section used in computing f_s (Total and Overload).
 V_R is the maximum $\frac{1}{2}$ + 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 (M_u) is computed according to AASHTO 10.40.1 & 10.50.1.1.
 f_s (Total) is the sum of the stresses due to $1.3 [M_D + 5/3 (M_L + I)]$.
 f_s (Overload) is the sum of the stresses due to $M_D + 5/3 (M_L + I)$.
 M_D - Moment due to dead loads on non-composite section.
 M_L - Moment due to live load on non-composite or composite section.
 I - Live load impact
N.T.R. - Must conform to Supplemental Requirements For Notch Toughness Zone 2. See General Note No. 5.

	0.4 Sp. 1	Piers	0.5 Sp. 2
I_x (in ⁴)	1330	1330	1330
S_x (in ³)	127	127	127
Z (in ³)	144	144	144
Q (K/ft.)	1.151	1.151	1.151
M_D (ft.-kips)	69.2	-113.9	52.1
M_L (ft.-kips)	146.8	-123.2	142.0
$M_{imp.}$ (ft.-kips)	44.0	-36.9	42.6
$5/3 (M_L + I)$ (ft.-kips)	318.0	-266.8	307.7
M_u (ft.-kips)	503.4	-494.9	467.7
M_u (ft.-kips)	600.0	-600.0	600.0
f_s non-comp (k.s.i.)	6.5	-10.8	4.9
f_s 5/3 ($L + I$) (k.s.i.)	30.0	-25.2	29.1
f_s (overload) (k.s.i.)	36.5	36.0	34.0
f_s (Total)	47.4	46.8	44.2

	Abut.	Pier
R_D (K)	12.6	40.1
R_L (K)	36.0	46.0
imp. (K)	10.8	13.8
R Total (K)	59.4	99.9

* M_u = Full Plastic Moment Capacity for Compact, Braced section.
 M_a (Applied Moment) = $1.3 [M_D + 5/3 (M_L + I)]$



BEARINGS & STRUCTURAL STEEL DETAILS

FAP RTE. 849 / BIG CREEK
SECTION 114BR
STATION 266+58.00
HAMILTON COUNTY

GREENE & BRADFORD, INC.
OF SPRINGFIELD
CONSULTING ENGINEERS
1201 W. MONROE ST. (1 ST. & MONROE)
SPRINGFIELD, ILLINOIS 62760
88537550

USER NAME = klbyea	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SN 033-0043	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DRAWN -	REVISED -	VAR			D9 BRIDGE PAINT 2022-1	VARIOUS	51	21	
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 78881				
PLOT DATE = 6/24/2021	DATE -	REVISED -			SCALE:	SHEET	OF	SHEETS	STA.
					ILLINOIS FED. AID PROJECT				

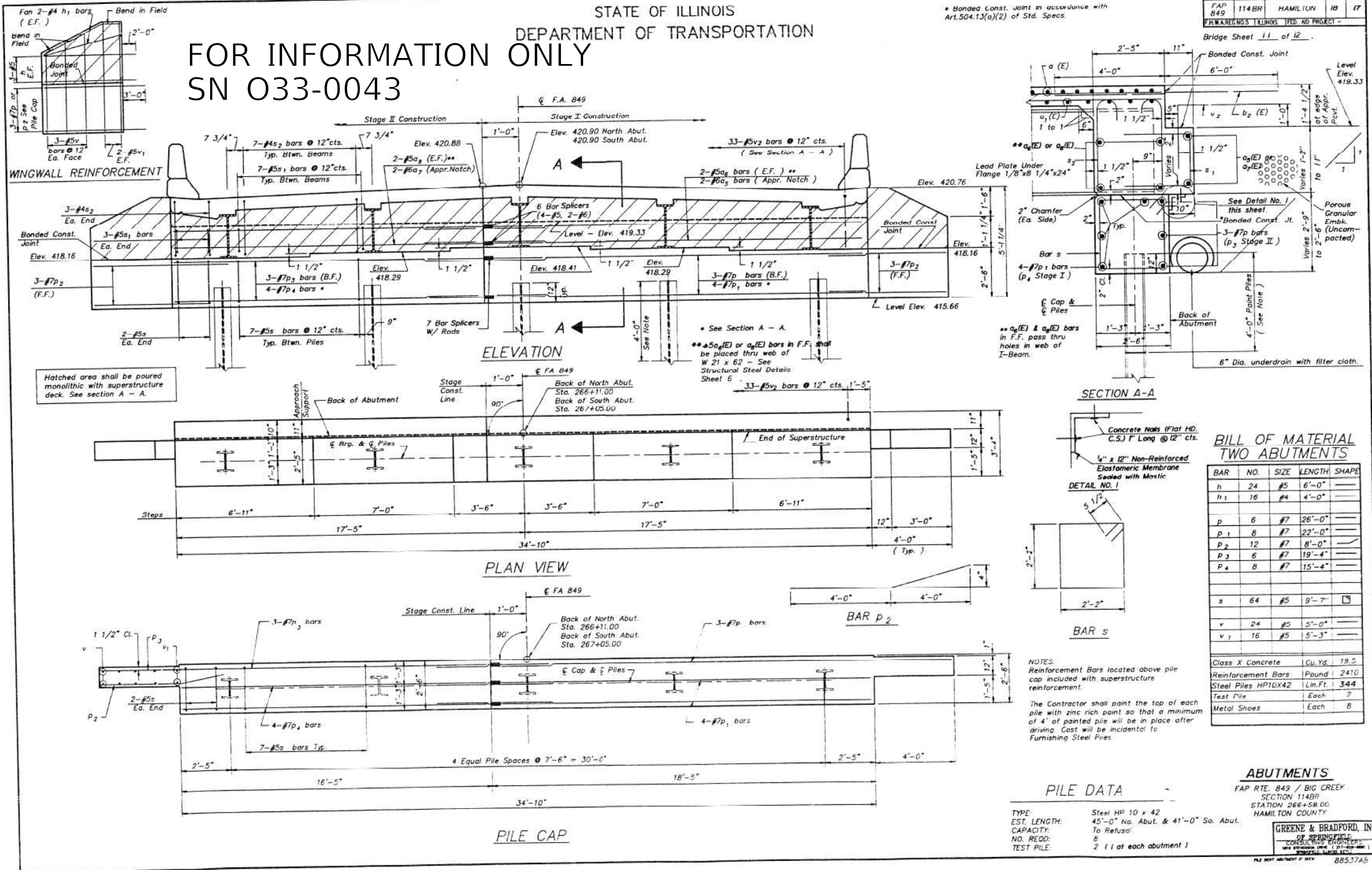
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOR INFORMATION ONLY
SN 033-0043

* Bonded Const. Joint in accordance with
Art.504.13(a)(2) of Std. Specs.

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 849	114 BR	HAMILTON	18	17
FHWA/RD/05 ILLINOIS FED. AID PROJECT -				

Bridge Sheet 11 of 12



BILL OF MATERIAL
TWO ABUTMENTS

BAR	NO.	SIZE	LENGTH	SHAPE
h	24	#5	6'-0"	—
h ₁	16	#4	4'-0"	—
p	6	#7	26'-0"	—
p ₁	8	#7	22'-0"	—
p ₂	12	#7	8'-0"	—
p ₃	6	#7	19'-4"	—
p ₄	8	#7	15'-4"	—
s	64	#5	9'-7"	□
v	24	#5	5'-0"	—
v ₁	16	#5	5'-3"	—
Class X Concrete		Cu. Yd.	19.5	
Reinforcement Bars		Pound	2410	
Steel Piles HP10X42		Lin. Ft.	344	
Test Pile		Each	2	
Metal Shoes		Each	8	

NOTES:
Reinforcement Bars located above pile cap included with superstructure reinforcement.
The Contractor shall paint the top of each pile with zinc rich paint so that a minimum of 4' of painted pile will be in place after driving. Cost will be incidental to Furnishing Steel Piles.

ABUTMENTS
FAP RTE. 849 / BIG CREEK
SECTION 114BR
STATION 266+58.00
HAMILTON COUNTY

PILE DATA
TYPE: Steel HP 10 x 42
EST. LENGTH: 45'-0" No. Abut. & 41'-0" So. Abut.
CAPACITY: To Refusal
NO. REQD: 8
TEST PILE: 2 (1 at each abutment)

GREENE & BRADFORD, INC.
OF SPRINGFIELD
CONSULTING ENGINEERS
1015 W. MONROE ST. (217-829-1000)
SPRINGFIELD, ILLINOIS 62760

FILE NO. 88537A5

USER NAME = klrbyea	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 6/24/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 033-0043

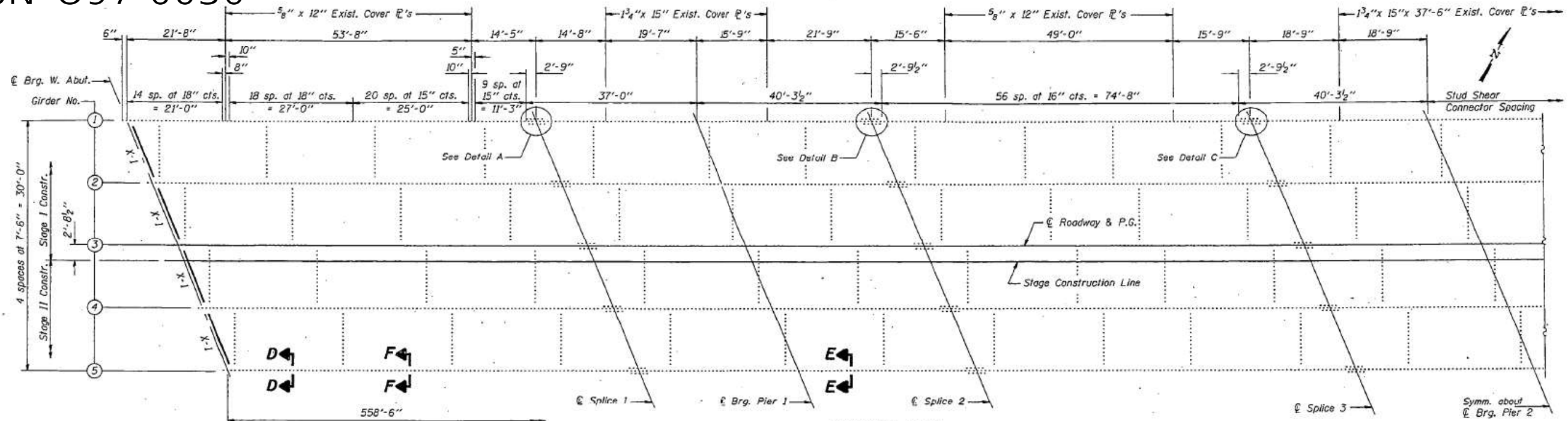
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 78881				
ILLINOIS FED. AID PROJECT				

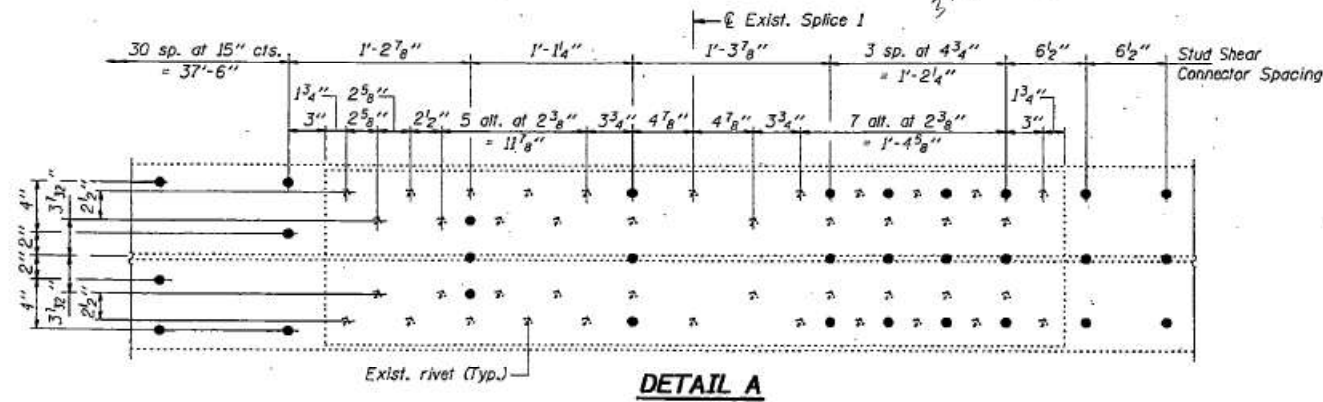
FOR INFORMATION ONLY
SN 097-0030

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

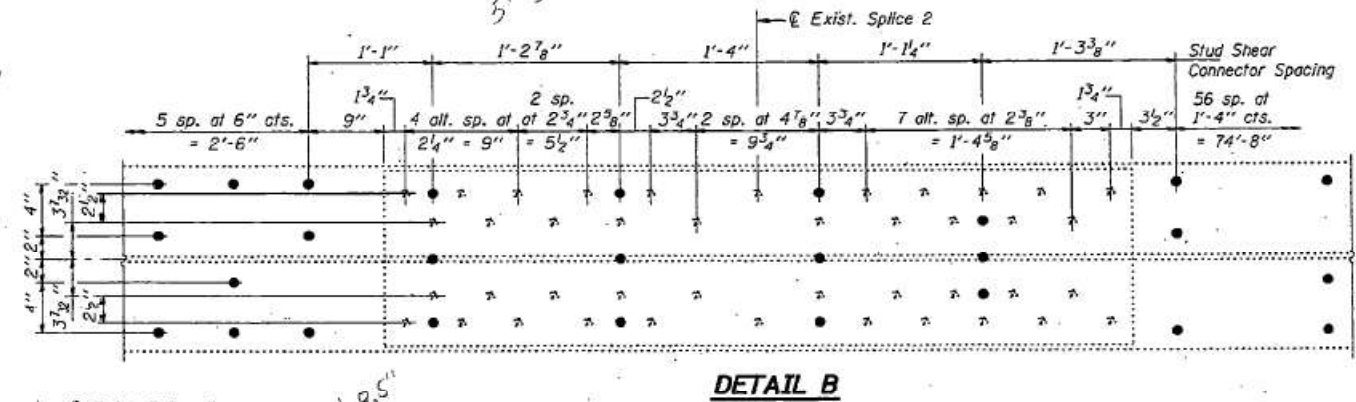
ROUTE NO.	SECTION	COUNTY	SHEETS	"22"	SHEET NO. 13
F.A.P. RT. 877	102BR	WHITE	36	22	26 SHEETS
FILE NO.	DATE	PROJECT			



FRAMING PLAN
(West Half shown, East Half similar)



DETAIL A



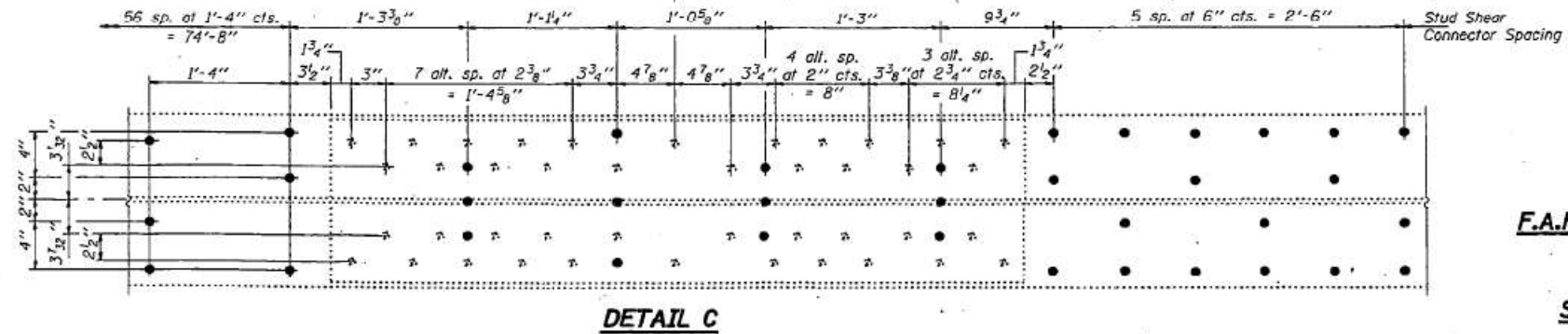
DETAIL B

Notes: For Sections D-D thru F-F, see sheet 14 of 26.

DESIGNED	Lee S. Hsueh
CHECKED	Nicholas J. Sovell
DRAWN	n. i. parsons
CHECKED	NJS/WAB

EXAMINED
Thomas J. Damallo
CHIEF ENGINEER OF BRIDGE DESIGN

PARSONS
Robert E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES



DETAIL C

STRUCTURAL STEEL
F.A.P. RT. 877 - SECTION 102BR
WHITE COUNTY
STATION 30+14.00
STRUCTURE NO. 097-0030

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USER NAME = klrbyea	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 6/24/2021	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

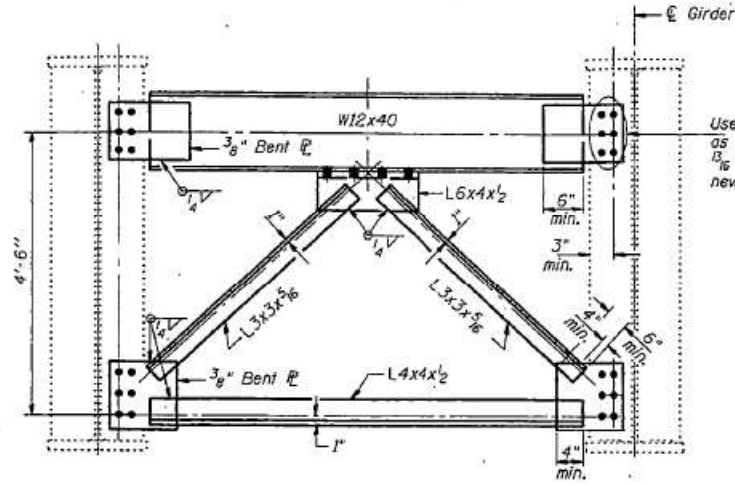
SN 097-0030

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE PAINT 2022-1	VARIOUS	51	24
CONTRACT NO. 78881				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 877	102BR	WHITE	36	23
F.A.P. 877 - SECTION 102BR			26 SHEETS	



END CROSS FRAME X-1
8 Required

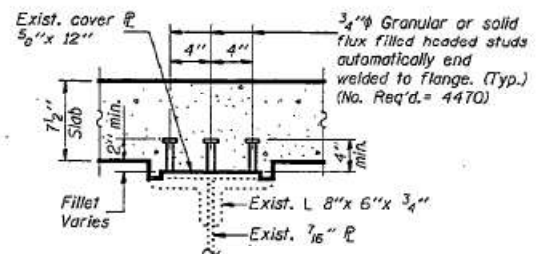
INTERIOR GIRDER MOMENT TABLE

	0.4 Sp. 1 or 0.6 Sp. 4	Pier 1 or Pier 3	0.5 Sp. 2 or 0.5 Sp. 3	Pier 2
I_s (in ⁴)	70929	117187	70929	117187
I_c (n) (in ⁴)	131550		131550	
I_c (3n) (in ⁴)	101434		101434	
S_s (in ³)	2056	3278	2056	3278
S_c (n) (in ³)	2486		2486	
S_c (3n) (in ³)	2337		2337	
ψ (k/ft.)	1.052	1.56	1.052	1.56
M_R (k)	1014	3350	931.7	3404
s_R (k/ft.)	0.507		0.507	
M_{sR} (k)	542.7		525.7	
M_L (k)	1120	1210	1173.2	1313
M (Imp) (k)	225	229	209	234
$S_2(M_L + I)$ (k)	2242	2398	2303	2579
M_a (k)	4938	7472	4889	7778
M_u (k)	6515		6540	
f_{sR} non-comp (ksi)	5.9	12.3	5.4	12.5
f_{sR} (comp) (ksi)	7.8		2.7	
$f_{s_2}(L + I)$ (ksi)	10.8	8.8	11.2	9.4
f_s (Overload) (ksi)	19.5	21.1	19.3	21.9
f_s (Total) (ksi)		27.4		28.5
VR (k)	59.7		57.8	

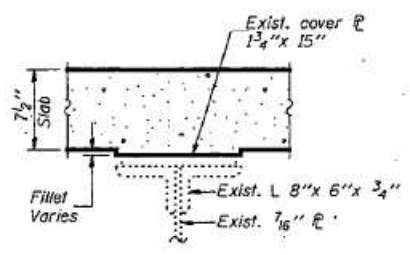
I_s and S_s are the moment of inertia and section modulus of the steel section used in computing f_s (Total & Overload).
 I_c and $S_{c(n)}$ are the moment of inertia and section modulus of the composite section used in computing stresses due to Live Load.
 $I_{c(3n)}$ and $S_{c(3n)}$ are the moment of inertia and section modulus of the composite section used in computing stresses due to superimposed dead loads. (See AASHTO 10.38)
 VR is the maximum Live Load + Impact shear range in span.
 M_a (Applied Moment) = $1.3(M_R + M_sR + S_2(M_L + I))$.
 f_s (Overload) is the sum of the stresses due to $M_R + M_sR + S_2(M_L + I)$.
 f_s (Total) is the sum of the stresses due to $1.3(M_R + M_sR + S_2(M_L + I))$.

INTERIOR GIRDER REACTION TABLE

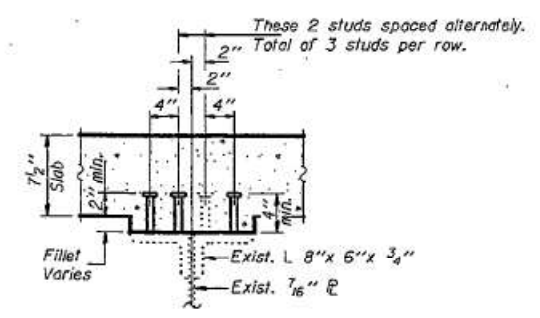
	Abut.	Pier 1 or Pier 3	Pier 2
R_R (k)	73.2	252.8	252.5
R_L (k)	44.7	90.0	93.2
Imp. (k)	9.0	17.0	16.8
R (Total) (k)	126.9	359.8	362.5



SECTION F-F



SECTION E-E



SECTION D-D

Notes: Existing cross-frames and bolts to be removed as indicated. Cost is included with Structural Steel Removal. Cost of field drilling or reaming of holes is included with Furnishing and Erecting Structural Steel. Two hardened washers shall be required over oversized holes.

FOR INFORMATION ONLY
SN 097-0030

DESIGNED	Lee S. Hsueh	EXAMINED	Thomas J. D'Amico
CHECKED	Nicholas J. Soyell	PASSED	Ronald E. Anderson
DRAWN	h. i. parsons		
CHECKED	NJS/WAB		

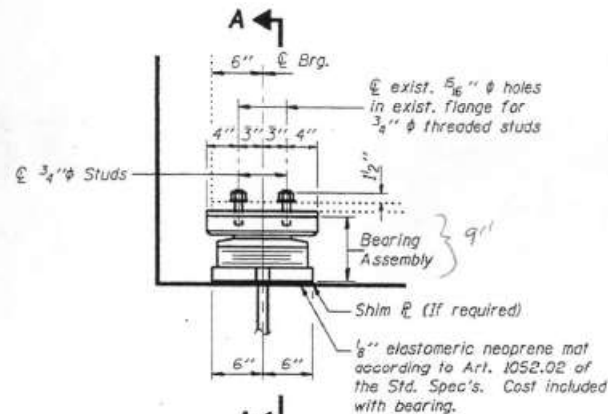
STRUCTURAL STEEL
F.A.P. RT. 877 - SECTION 102BR
WHITE COUNTY
STATION 30+14.00
STRUCTURE NO. 097-0030

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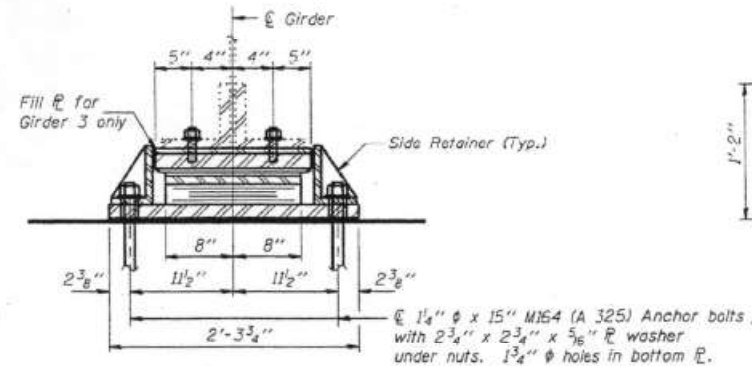
USER NAME = klrbyea	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SN 097-0030	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -			VAR	D9 BRIDGE PAINT 2022-1	VARIOUS	51	25
PLOT DATE = 6/24/2021	CHECKED -	REVISED -			SCALE:	SHEET	OF SHEETS	STA.	TO STA.
	DATE -	REVISED -							
									ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

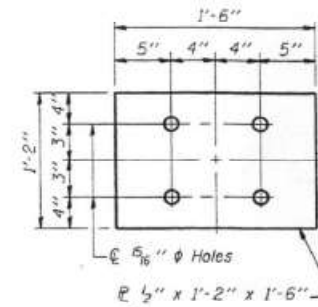
ROUTE NO.	SECTION	COUNTY	SHEET	SHEET NO.
F.A.P. 877	102BR	WHITE	36 24	26 SHEETS
FED. AID DIST. NO.	ALTERNATE	PAID NO.	PROJECT	



ELEVATION AT ABUTMENTS

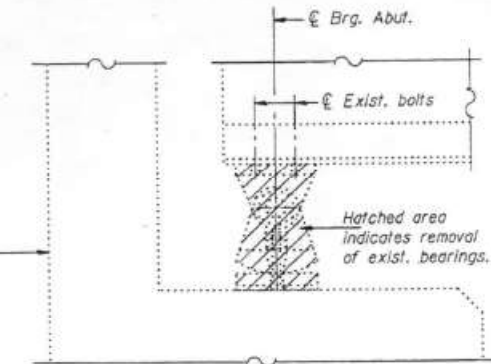


SECTION A-A



FILL PLATE
(For Girder 3 only)

Existing abutments to be removed and reconstructed.

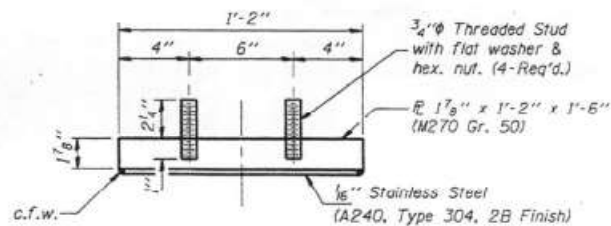


EXIST. BEARING REMOVAL DETAILS

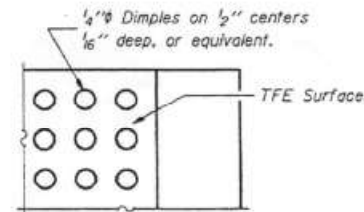
(Abutment bearings shown - Pier bearings similar)

Burn existing anchor bolts flush with existing concrete surface of piers. Grind existing anchor bolts smooth and seal with epoxy. Cost included with Jack and Remove Existing Bearings.

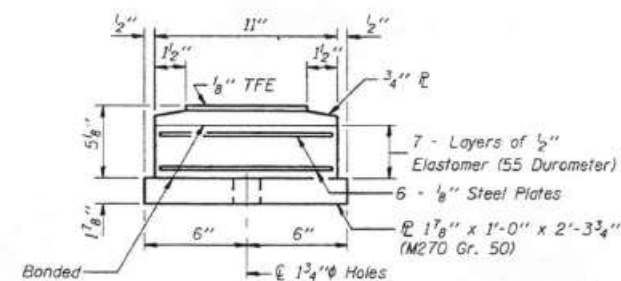
TYPE II TFE ELASTOMERIC EXP. BRG.



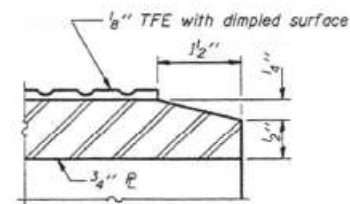
TOP BEARING ASSEMBLY



PLAN-TFE SURFACE



BOTTOM BEARING ASSEMBLY

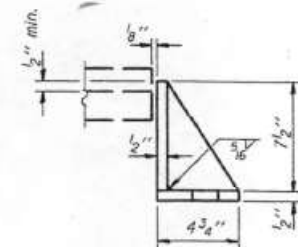


SECTION THRU TFE

Note: The 1/8" 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.

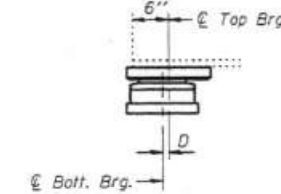
Bonding of 1/8" TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

See sheet 18 of 26 for anchor bolt installation.

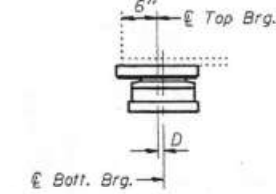


SIDE RETAINER

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



BELOW 50°F.
(Move bott. brg. away from fixed brg.)



ABOVE 50°F.
(Move bott. brg. toward fixed brg.)

SETTING ANCHOR BOLTS AT EXP. BRG.

D=1/8" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

BEARING REPLACEMENT PROCEDURE

- The Contractor shall submit for approval by the Engineer, plans for jacking and cribbing prior to commencing replacement of the abutments or any work at the bearings.
- Jacking and removing existing bearing shall be done after existing deck removal is completed and before a new deck is poured.
- Jacking shall be limited to a maximum differential of 1/8" transversely between adjacent beams and 1/4" longitudinally between adjacent supports to remove and install new bearings.
- The girders at the abutments shall be supported by cribbing prior to removal of existing bearings. The cost of removal of existing bearings at abutments is included in Jacking & Cribbing Location 1 and Jacking & Cribbing Location 2. The cost of removal of existing bearings at the piers is included with Jack and Remove Existing Bearings.
- The maximum dead load reaction with deck removed (per bearing) at each abutment is 21 kips. Minimum jack capacity at the abutments is 42 kips (per bearing).
The maximum dead load reaction with deck removed (per bearing) at Pier 1 thru 3 is 70 kips. Minimum jacking capacity at Pier 1 thru 3 is 140 kips (per bearing).
- The new bearings and steel extensions (at Piers) shall be in place and the jacks shall be lowered before the new concrete deck is poured.
- The bottom flange area of existing beams shall be cleaned as specified by the Special Provisions "Cleaning and Painting Adjacent Areas of Existing Steel Structures" prior to installing top bearing plate.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type II	Each	10
Jacking & Cribbing, Location 1	L.S.	1
Jacking & Cribbing, Location 2	L.S.	1

BEARING DETAILS
F.A.P. RT. 877 - SECTION 102BR
WHITE COUNTY
STATION 30+14.00
STRUCTURE NO. 097-0030

DESIGNED	Lee S. Hsueh
CHECKED	Nicholas J. Sovell
DRAWN	h. t. parsons
CHECKED	NJS/WAB

EXAMINED	Thomas J. Donaghy
PASSED	Robert A. Carlson

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 097-0030

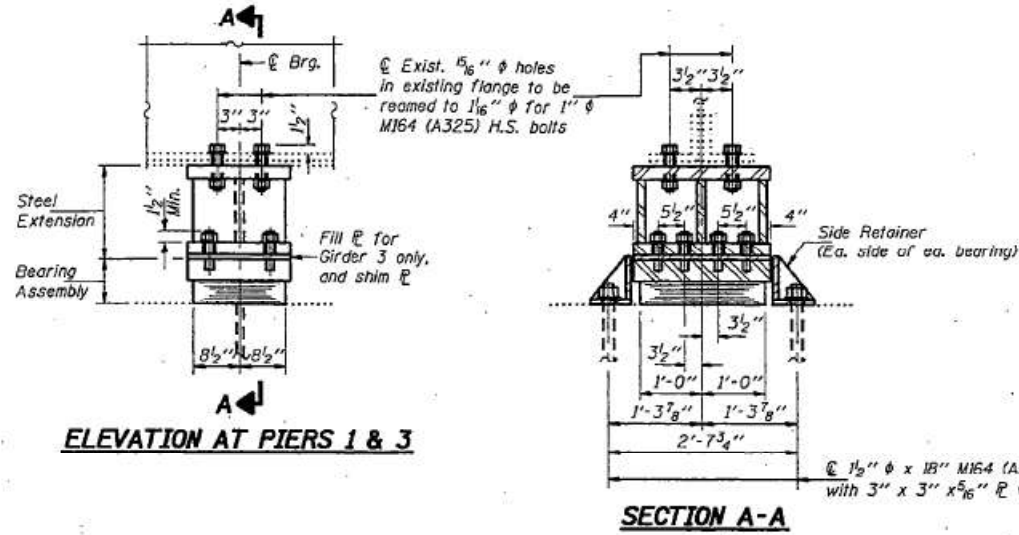
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE PAINT 2022-1	VARIOUS	51	26
			CONTRACT NO. 78881	

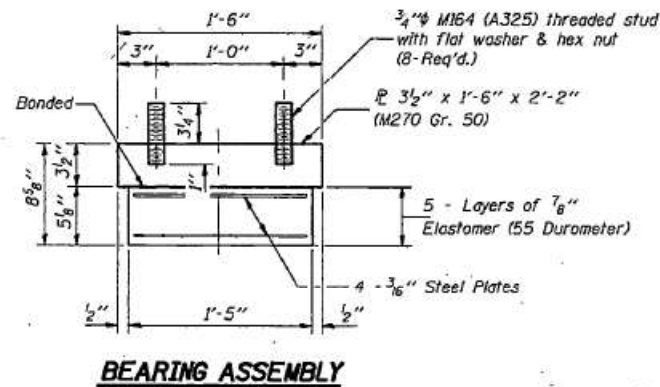
ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	DATE	SHEET NO.
F.A.P. 877	102BR	WHITE	3625	26 SHEETS
FED. AID PROJ. NO. 7		SHEET NO. 16		

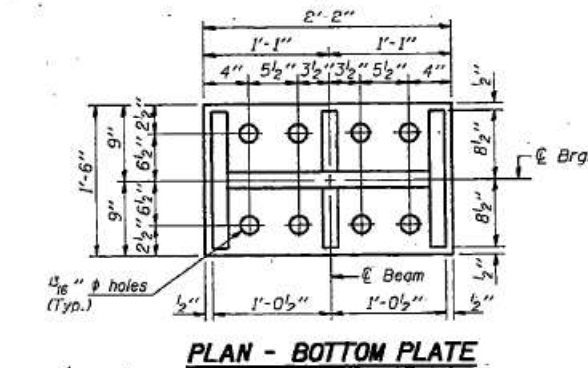
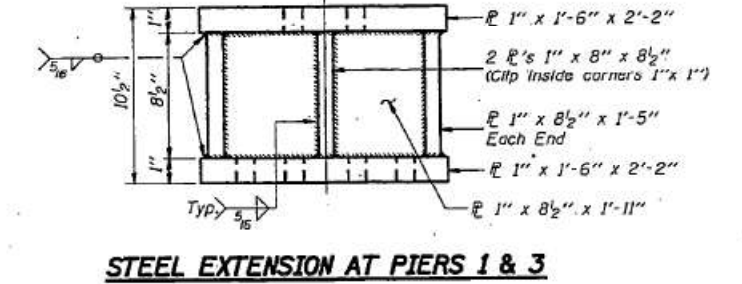
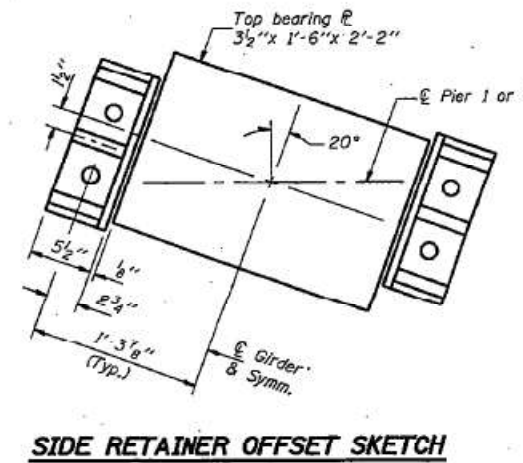
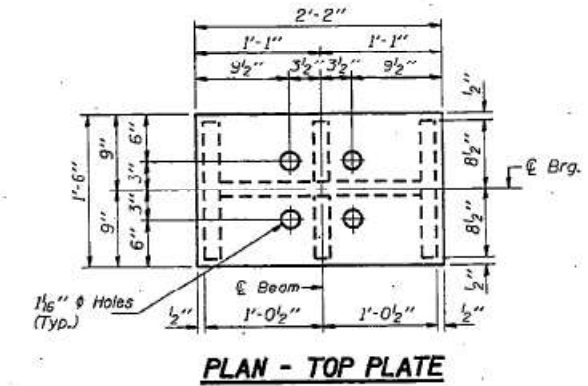
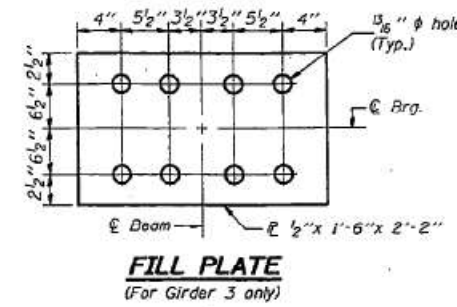


TYPE I ELASTOMERIC EXP. BRG.

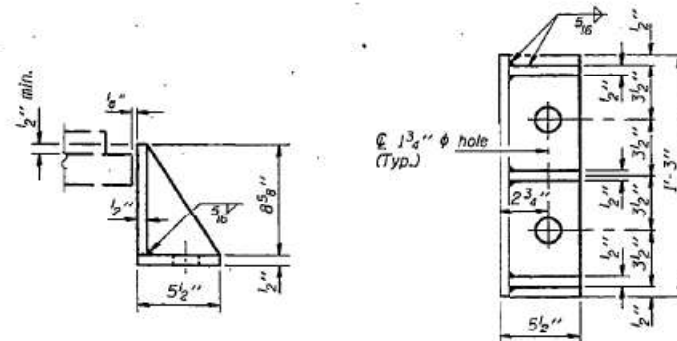


Note: Shim plates shall not be placed under Bearing Assembly.

Notes: See sheet 18 of 26 for Anchor Bolt installation.
See sheet 15 of 26 for Bearing Replacement Procedure.



FOR INFORMATION ONLY
SN 097-0030



Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. Weight included with Structural Steel.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	10
Jack and Remove Existing Bearings	Each	10

BEARING DETAILS
F.A.P. RT. 877 - SECTION 102BR
WHITE COUNTY
STATION 30+14.00
STRUCTURE NO. 097-0030

DESIGNED	Lee S. Hsueh
CHECKED	Nicholas J. Sovell
DRAWN	h. f. parsons
CHECKED	NJS/WAB

EXAMINED	Thomas J. [Signature]
PASSED	Ralph [Signature]

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USER NAME = klrbyea	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 6/24/2021	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

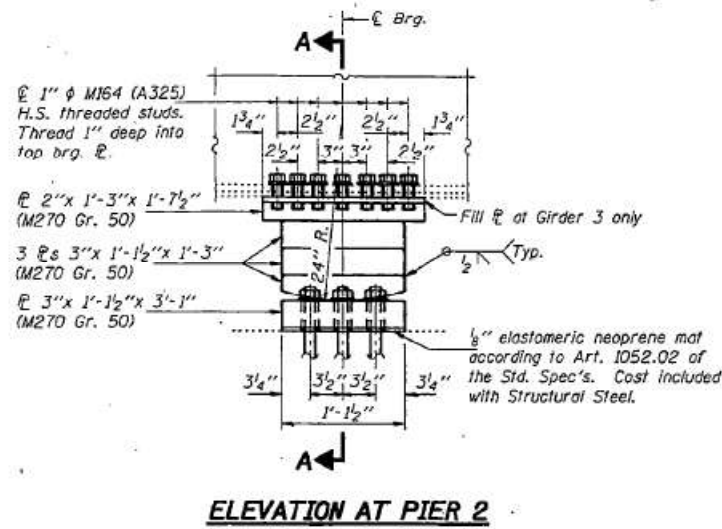
SN 097-0030

SCALE: SHEET OF SHEETS STA. TO STA.

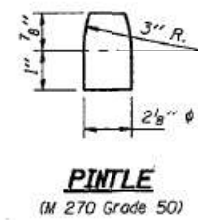
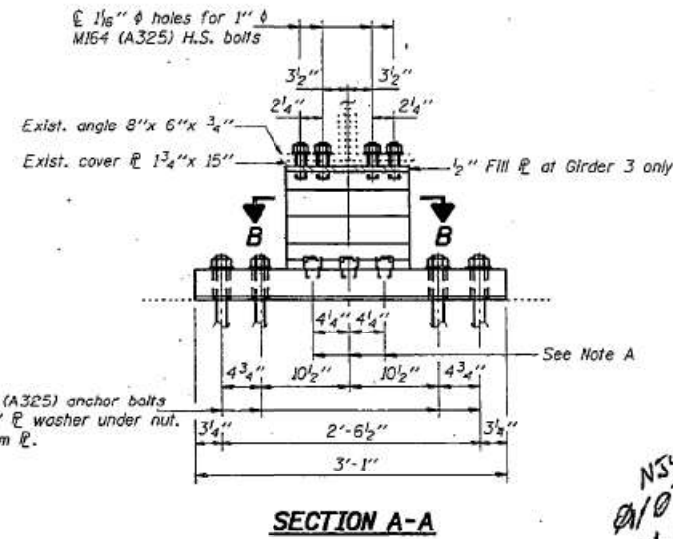
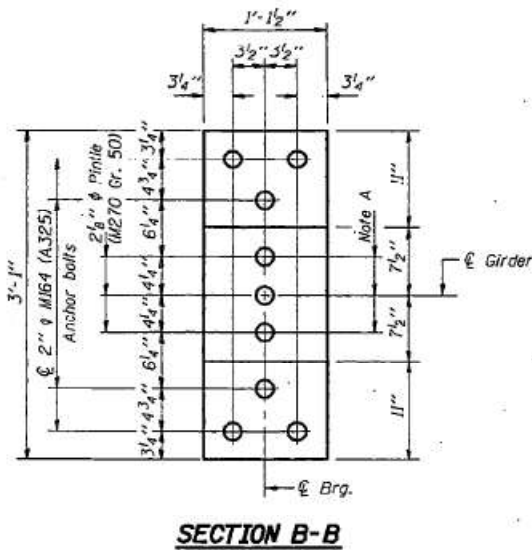
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE PAINT 2022-1	VARIOUS	51	27
			CONTRACT NO. 78881	
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	SHEET NO.
F.A.P. 877	102BR	WHITE	36 26	26 SHEETS
FED. ROAD DIST. NO. 7	NUMBER	FEED. AID PROJECT		

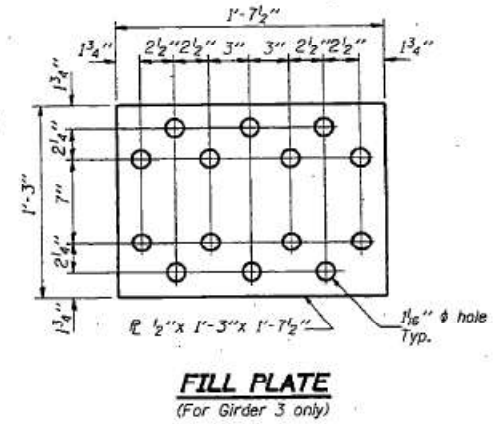
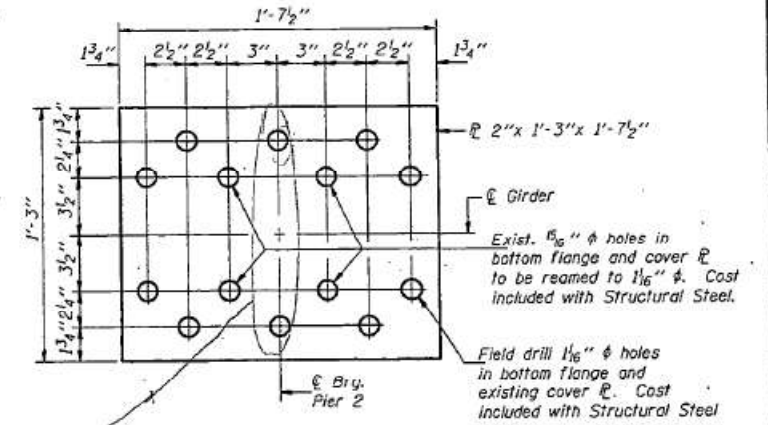


FIXED BEARING



Note A:
2 1/4" ϕ Holes-1" deep in steel extension for 2 1/2" ϕ pintles. Thread or press fit in bottom \bar{L} .

Notes: For anchor bolt installation details see sheet 18 of 26. See sheet 15 of 26 for Bearing Placement Procedure. Structural steel for fixed bearings shall be included with Furnishing and Erecting Structural Steel.



*NSM 2/10/02
14 W/11 Reg'd for Seismic Cat B. (3580LL)
ABOs has provide 3/8" Reaction in restricted direction say ok
The bolts at the \bar{L} of bearing have been removed due to a bearing stiffener. The remaining bolts are structurally adequate.
BAH 12/1/01*

FOR INFORMATION ONLY
SN 097-0030

BILL OF MATERIAL

Item	Unit	Total
Jack and Remove Existing Bearings	Each	5

BEARING DETAILS
F.A.P. RT. 877 - SECTION 102BR
WHITE COUNTY
STATION 30+14.00
STRUCTURE NO. 097-0030

DESIGNED	Lee S. Hsueh
CHECKED	Nicholas J. Sovell
DRAWN	h. f. parsons
CHECKED	NJS/WAB

EXAMINED	Thomas J. Donnell
DRAWN	Ronald C. Carlson

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

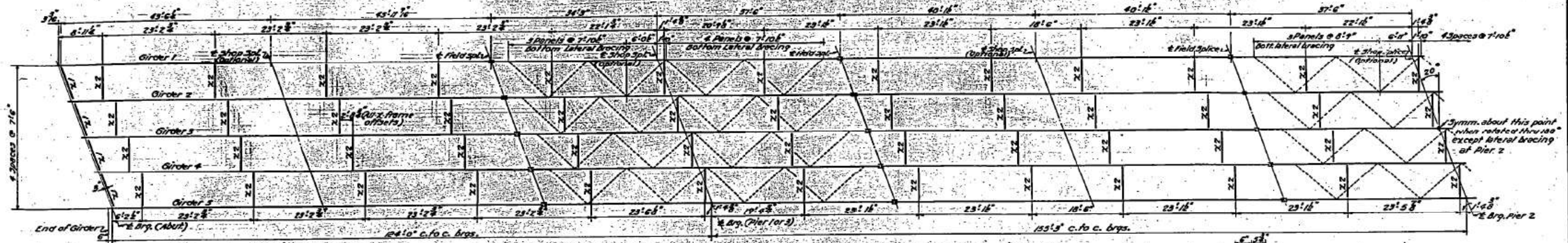
SN 097-0030

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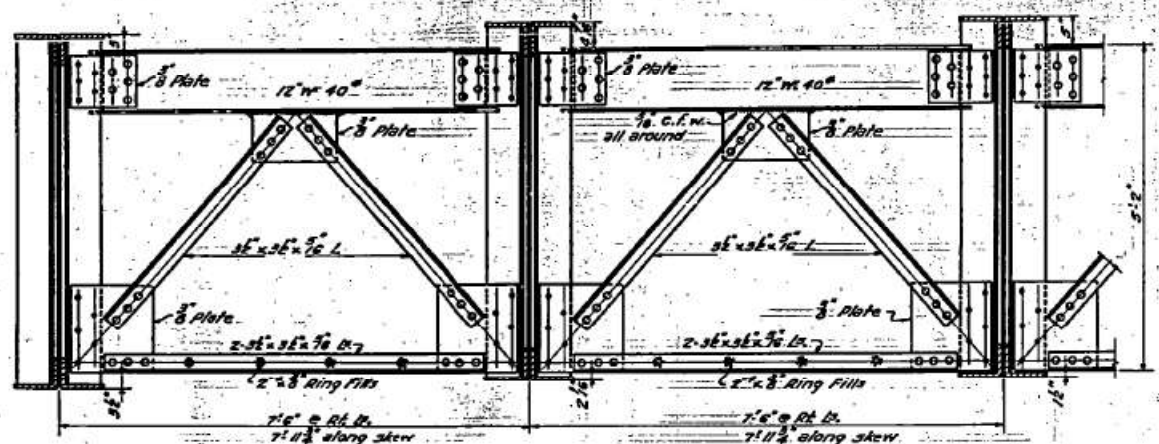
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VAR	D9 BRIDGE PAINT 2022-1	VARIOUS	51	28
			CONTRACT NO. 78881	
ILLINOIS FED. AID PROJECT				

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

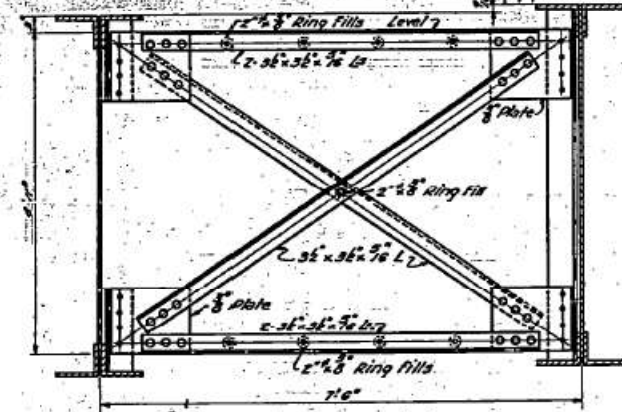
PROJECT NO.	SECTION	DATE	SHEET	SHEET NO. OF
113	102 B	White Gallatin	17	7
FILE NO. 2021-113-1		SHEET NO. 17 OF 17		



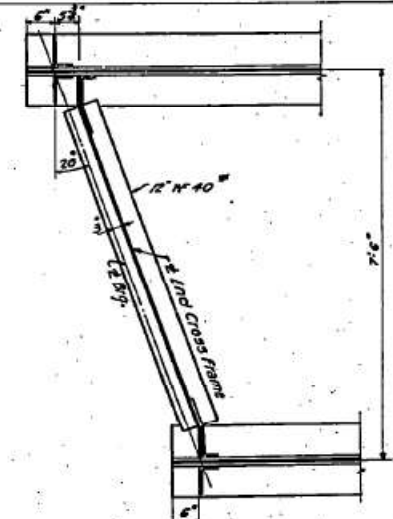
HALF FRAMING PLAN



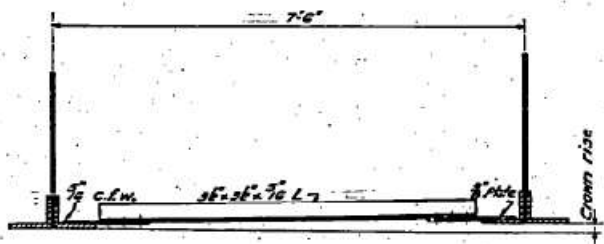
HALF CROSS SECTION OF CROSS FRAME X-1



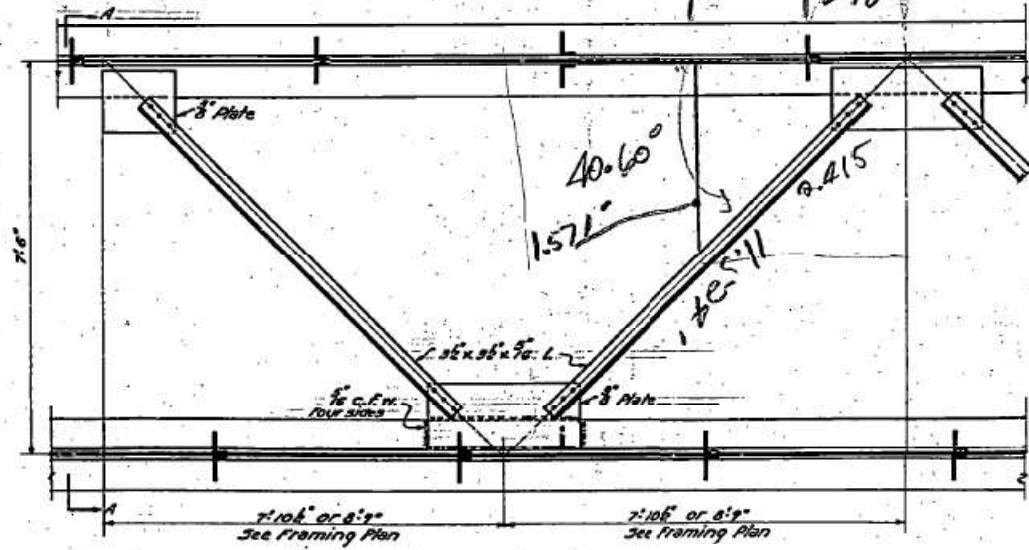
CROSS FRAME X-2



SECTION THRU END CROSS FRAME X-1



SECTION A-A



LATERAL BRACING ON BOTTOM FLANGE



DEAD LOAD DEFLECTION DIAGRAM

Girders shall be fabricated to eliminate dead load deflection at splices.

FOR INFORMATION ONLY
SN 097-0030

DESIGNED	<i>G. Hillman</i>	APRIL 25 1955
CHECKED	<i>M. A. Ryznar</i>	
DRAWN	<i>C. R. J.</i>	
CHECKED	<i>M. A. R.</i>	
EXAMINED	<i>M. J. ...</i>	
APPROVED	<i>A. G. ...</i>	

STEEL FRAMING PLAN
LITTLE WABASH RIVER AT NEW HAVEN
I.A. RT. 113 - SEC. 102-B
WHITE-GALLATIN COUNTIES
STATION 30+14

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 097-0030

USER NAME	= klrbyea
DESIGNED	-
DRAWN	-
PLOT SCALE	= 100,0000' / in.
PLOT DATE	= 6/24/2021

DESIGNED	-
REVIS	-
CHECKED	-
DATE	-

REVIS	-
REVIS	-
REVIS	-

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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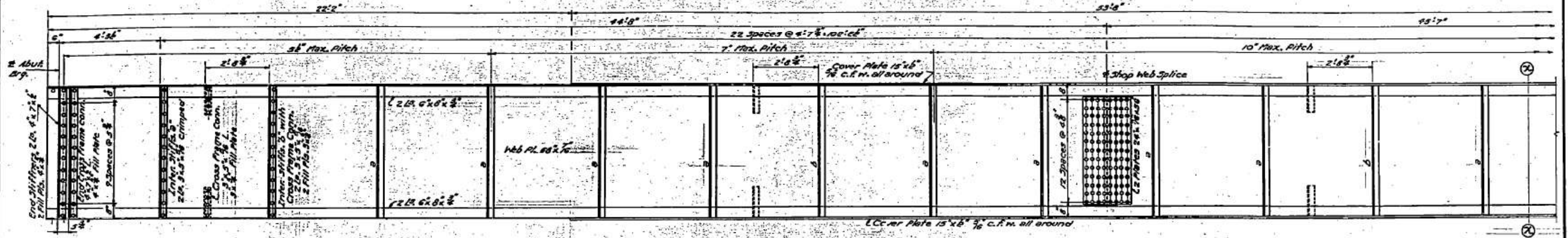
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE PAINT 2022-1	VARIOUS	51	30
ILLINOIS			CONTRACT NO. 78881	

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 SHEET: 17 OF 17

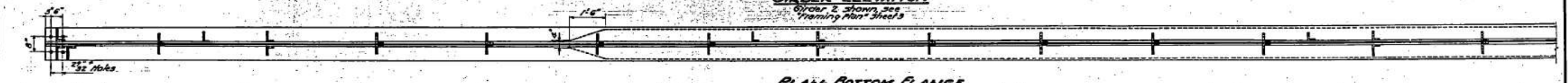
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	METHOD	SURVEY	TOTAL SHEETS	SHEET NO.
S.A. 113	1028	White Gallatin	17	8
FED. ROAD DIST. NO. 1	ALWAYS	FED. ROAD PROJECT		

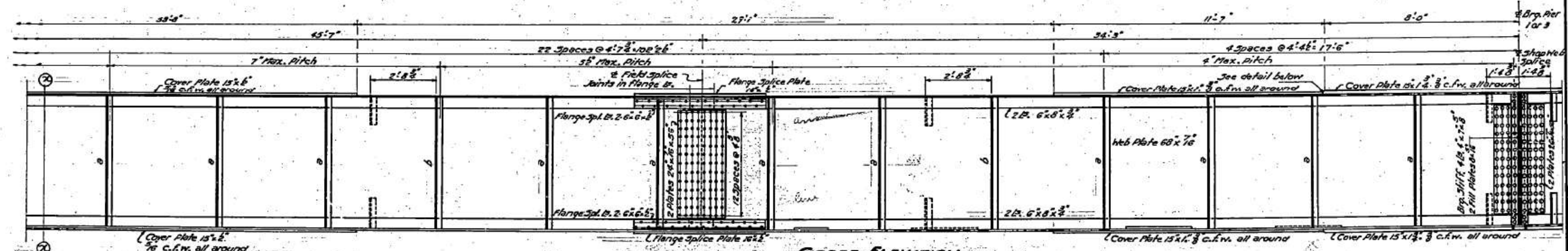
SHEET NO. 4
12 SHEETS



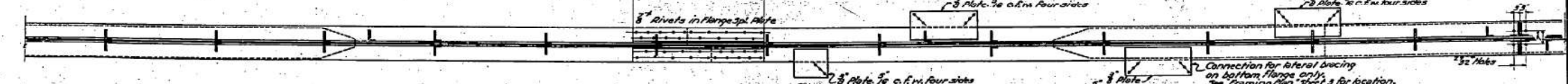
GIRDER ELEVATION
Girder 2 shown, see Framing Plan Sheet 3



PLAN - BOTTOM FLANGE



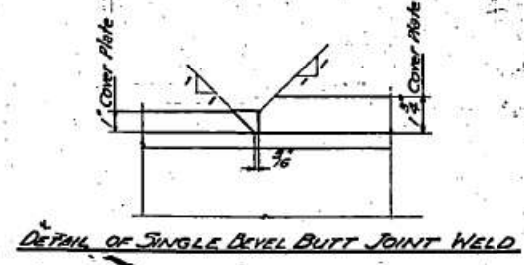
GIRDER ELEVATION



PLAN - BOTTOM FLANGE

Note: 15" rivets and holes 7/8" except in flange splice plates, 1 1/2" rivets and open holes 1 1/2" flange splice plates. For location of Cross Frame connections see Framing Plan Sheet 3

DESIGNED <i>C. R. Hillman</i>	EXAMINED <i>W. M. Rasmussen</i>	DATE <i>APRIL 25 1955</i>
CHECKED <i>M. G. Regan</i>	PASSED <i>E. J. Schindler</i>	
DRAWN <i>C. R. Hillman</i>	APPROVED <i>B. H. Bachlemer</i>	
CHECKED <i>M. A. R.</i>		



DETAIL OF SINGLE BEVEL BUTT JOINT WELD

FOR INFORMATION ONLY
SN 097-0030

GIRDER DETAILS
LITTLE WABASH RIVER AT NEW HAVEN
PART II - SEC. 102 B
WHITE - GALLATIN COUNTIES
STATION 30+14

MODEL: Default
FILE NAME: p:\pubwork\sn097-0030\pwwork\sn097-0030\dwg\097-0030.dwg
PROJECT: 78881
CADD: DataCAD
PROJECT: 78881
SHEET: 8

USER NAME = klrtbyea	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 6/24/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.

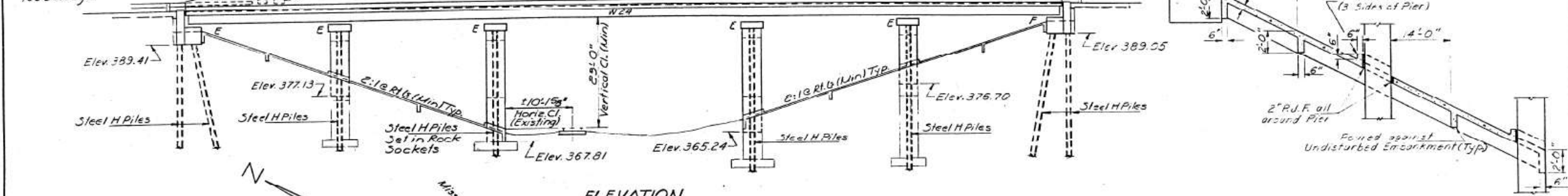
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE PAINT 2022-1	VARIOUS	51	31
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78881	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

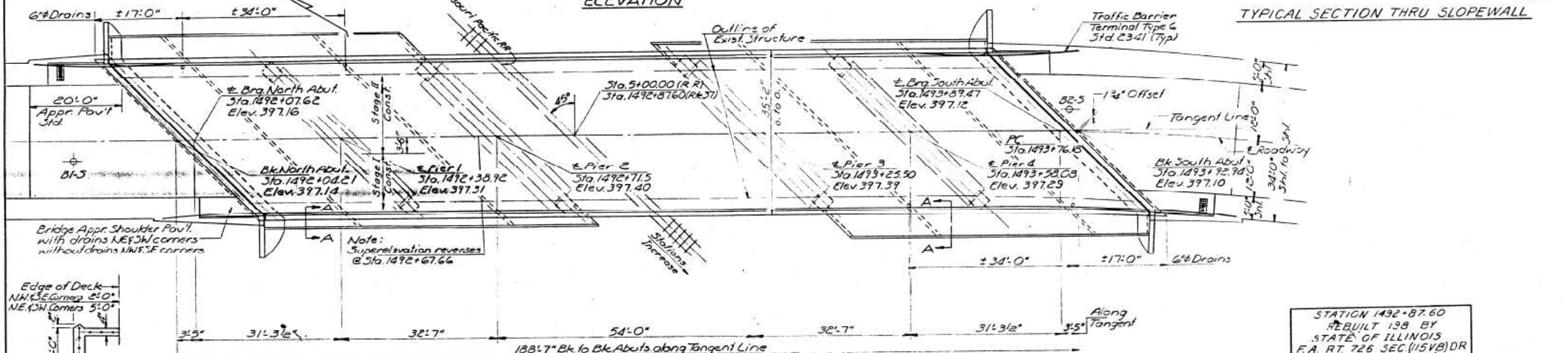
FOR INFORMATION ONLY SN 044-0012

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
044-0012	(115VB) DR	Johnson	36	17
20 SHEETS				

Bench Mark: "A" cul N.E. corner of abut, 14' LI Sta 1491+91
Elev. 396.84
Existing Structure: "044-0012" The existing structure was built in 1934 as 3-BT Rte 147, Section 112, VANRA. The structure is 106'-0" Bk. to Bk. five simple span bridge with superstructure width of 27'-6" out to out. The existing abutments and superstructure shall be entirely removed. The proposed superstructure shall consist of a new five span continuous beam system supporting a R.C. slab. The substructure shall consist of new abutment bents and widened existing piers. One lane traffic shall be maintained at all times utilizing stage construction.
No salvage.



TYPICAL SECTION THRU SLOPEWALL



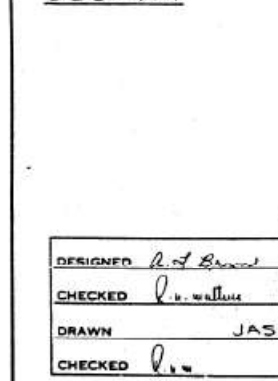
PLAN
TOP OF RAIL ELEVATIONS
MISSOURI PACIFIC RR

Sta.	North Rail Elev.	South Rail Elev.
4+0000	372.02	376.01
5+0000	371.43	371.41
6+0000	370.78	370.77

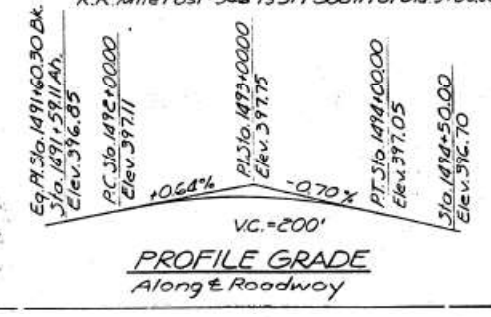
R.R. Mile Post #346 is 319' South of Sta. 5+0000

CURVE DATA

$\Delta = 42^\circ 11' 11''$	$\Delta = 47^\circ 47' 50''$
$T = 442.32'$	$T = 423.67'$
$D = 4^\circ 59' 45''$	$D = 5^\circ 59' 33''$
$L = 844.30'$	$L = 797.63'$
$R = 1,146.69'$	$R = 756.14'$
$E = 82.35'$	$E = 89.66'$
Prop. SE = 0.08%	Prop. SE = 0.08%
Attain SE = Sta. 1481+72.00	Attain SE = Sta. 1492+67.66
to Sta. 1483+88.00	to Sta. 1494+83.66
Remove SE = Sta. 1490+52.85	Remove SE = Sta. 1501+01.81
to Sta. 1492+67.66	to Sta. 1503+13.72
Equation PT = Sta. 1491+60.30 Bk.	PC = Sta. 1493+76.18
= Sta. 1491+59.11 Ah.	to Sta. 1503+13.72
Prop. SE = 0.00 (F/af) AT Sta. 1492+67.66	



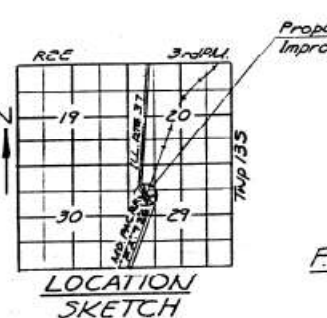
SEC. A-A



DESIGN STRESSES

$f_c = 3,500$ psi
$f_y = 60,000$ psi
$f_y = 50,000$ psi (Struct) (M 223 Gr. 50)
$f_y = 36,000$ psi (Struct) (M 163)

Design Specifications: 1983 AASHTO
Allow 25% for future wearing surface
LOADING H520-44



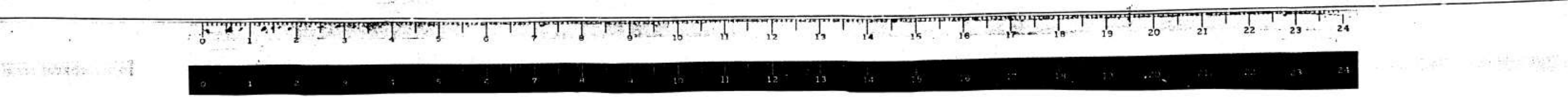
LOCATION SKETCH

STATION 1492+87.60
REBUILT 198 BY
STATE OF ILLINOIS
F.A. RT. 726 SEC. (115VB) DR
F.A. PROJ. B-F-726(33)
LOADING H520
STR. No. 044-0012

NAME PLATE
See Std. 2113

GENERAL PLAN
ILLINOIS RTE. 37 OVER
MISSOURI PACIFIC RR
F.A. RTE. 726 SEC. (115VB) DR
JOHNSON COUNTY
STA. 1492+87.60

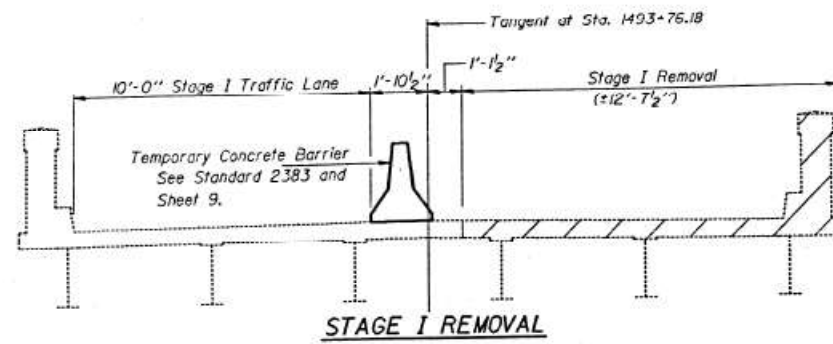
DESIGNED: R. J. B...
CHECKED: J. W. W...
DRAWN: JAS.
CHECKED: J. W. W...
APPROVED: JAMES J. B...
MAY 14 1985
DIRECTOR OF HIGHWAYS



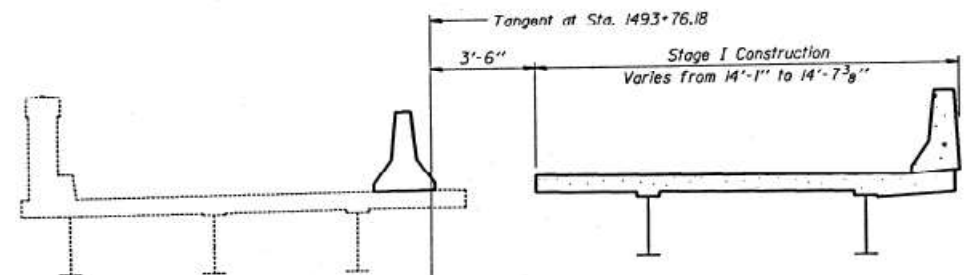
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	SHEET NO.	TOTAL SHEETS
726	(115VB) DR	36	18
SHEET NO. 2		20 SHEETS	

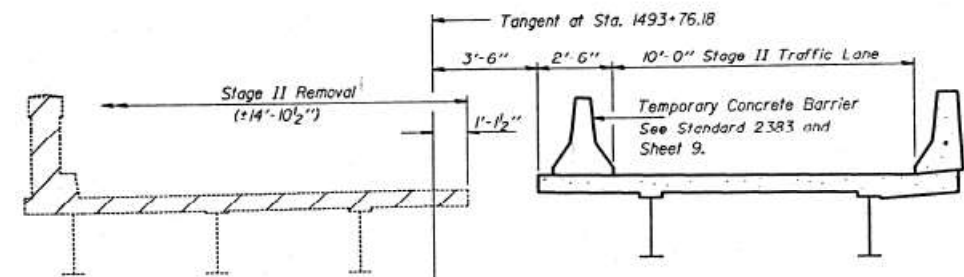
FOR INFORMATION ONLY SN 044-0012



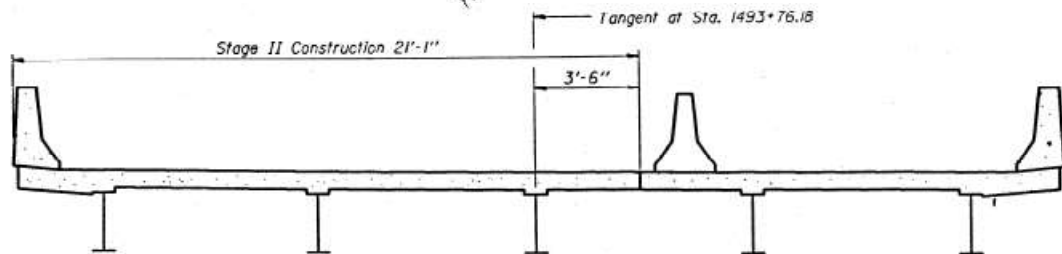
STAGE I REMOVAL



STAGE I CONSTRUCTION



STAGE II REMOVAL



STAGE II CONSTRUCTION

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.			171
Floor Drains	Each	4		4
Protective Coat	Sq. Yd.	805		805
Class X Concrete	Cu. Yd.	204.5	153.2	357.7
Structural Steel	L. Sum			1
Stud Shear Connectors	Each	2,020		2,020
Reinforcement Bars	Lbs.		12,280	12,280
Reinforcement Bars (Epoxy Coated)	Lbs.	53,350		53,350
Furnishing Steel Piles HP8x36	Lin. Ft.		465	465
Furnishing Steel Piles HPI2x53	Lin. Ft.		207	207
Driving Steel Piles	Lin. Ft.		€12	€12
Test Pile Steel HP8x36	Each		1	1
Test Pile Steel HPI2x53	Each		1	1
Name Plates	Each	1		1
Slope Wall 4 Inch	Sq. Yd.		612	612
Sealing Piles in Rock	Each		2	2
Preformed Joint Seal 1 1/2"	Lin. Ft.	49		49
Elastomeric Bearing Assembly, Type I	Each	15		15
Elastomeric Bearing Assembly, Type II	Each	5		5
Neoprene Expansion Joint 2 1/2"	Lin. Ft.	48		48
Epoxy Mortar Repair	Cu. Ft.			3.4
Expansion Bolts 3/4 Inch	Each		220	220

* Includes Superstructure and Abutments only.

GENERAL NOTES

See Proposal for Boring Data.
Fasteners shall be high strength bolts. Bolts 7/8"φ, open holes 15/16"φ, unless otherwise noted.
Calculated weight of Structural Steel = 60,050 Lbs. (M 223 - Gr. 50) and 21,130 Lbs. (M 153).
The Zinc-silicate and vinyl paint system shall be used for shop and field painting of Structural Steel except where otherwise noted.
Field welding of construction accessories will not be permitted in the bottom flange of beams nor to the top flange for a distance equal to one-fourth the span length each way from the pier supports. Field welding in other areas will be permitted only when approved by the Engineer.
Anchor bolts shall be set before bolting diaphragms over supports.
The structural steel bearing plates of the Elastomeric Bearing Assembly shall conform to the requirements of AASHTO M 222.
The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are wide flange beams and all splice plate material.
Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-53 Grade 60.
Slope wall shall be reinforced with welded wire fabric, 6" x 6" - W4.0 x 4.0, weighing 58 lbs. per 100 sq. ft.
The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.
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.
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 HPI2x53 test pile in a permanent location at Pier 3 and one Steel HP8x36 test pile in a permanent location at the North Abutment as directed by the Engineer before ordering the remainder of piles.

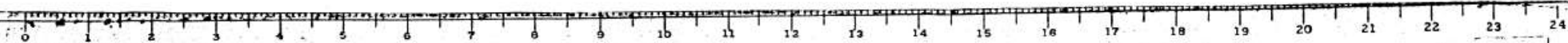
DESIGNED *R. P. Summer*
CHECKED *R. P. Summer*
DRAWN *R. P. Summer*
CHECKED *R. P. Summer*

EXAMINED *R. P. Summer*
PASSED *R. P. Summer*
APPROVED *R. P. Summer*

May 14 1985

Notes: All views are looking South.
Hatched areas indicate "Removal of Existing Structures."
For quantity of Temporary Concrete Barrier, see Roadway Plans.

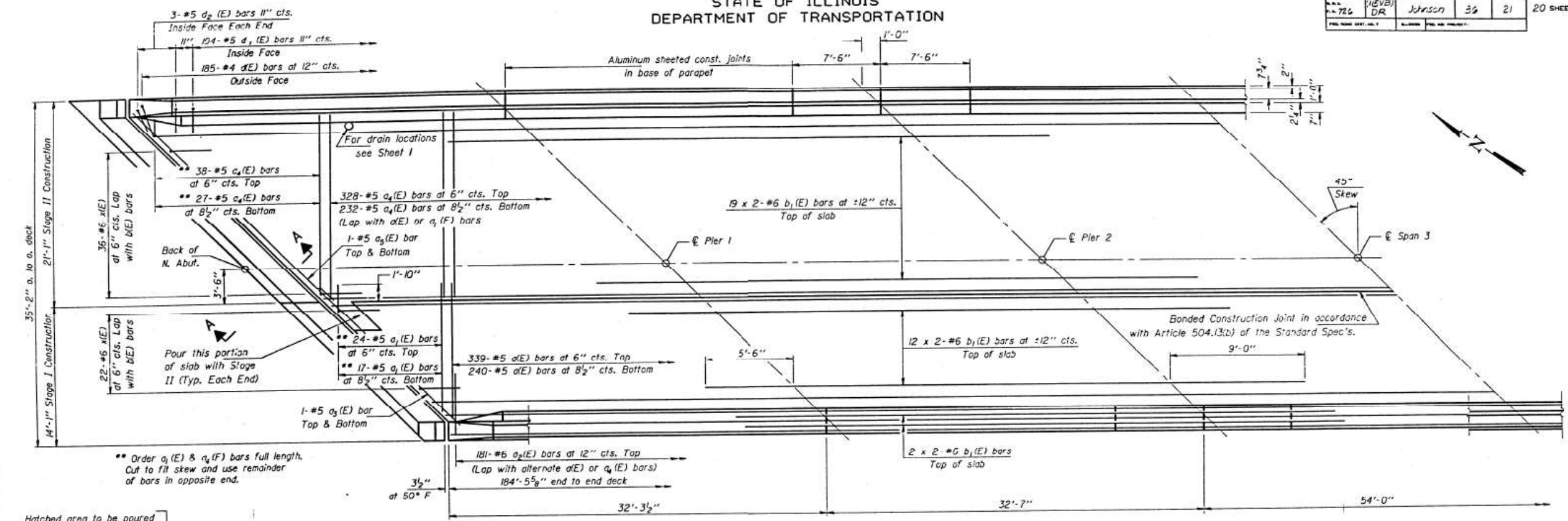
STAGE CONSTRUCTION DETAILS
F.A. RT. 726 SEC. (115VB)DR
JOHNSON COUNTY
STA. 1492+87.60



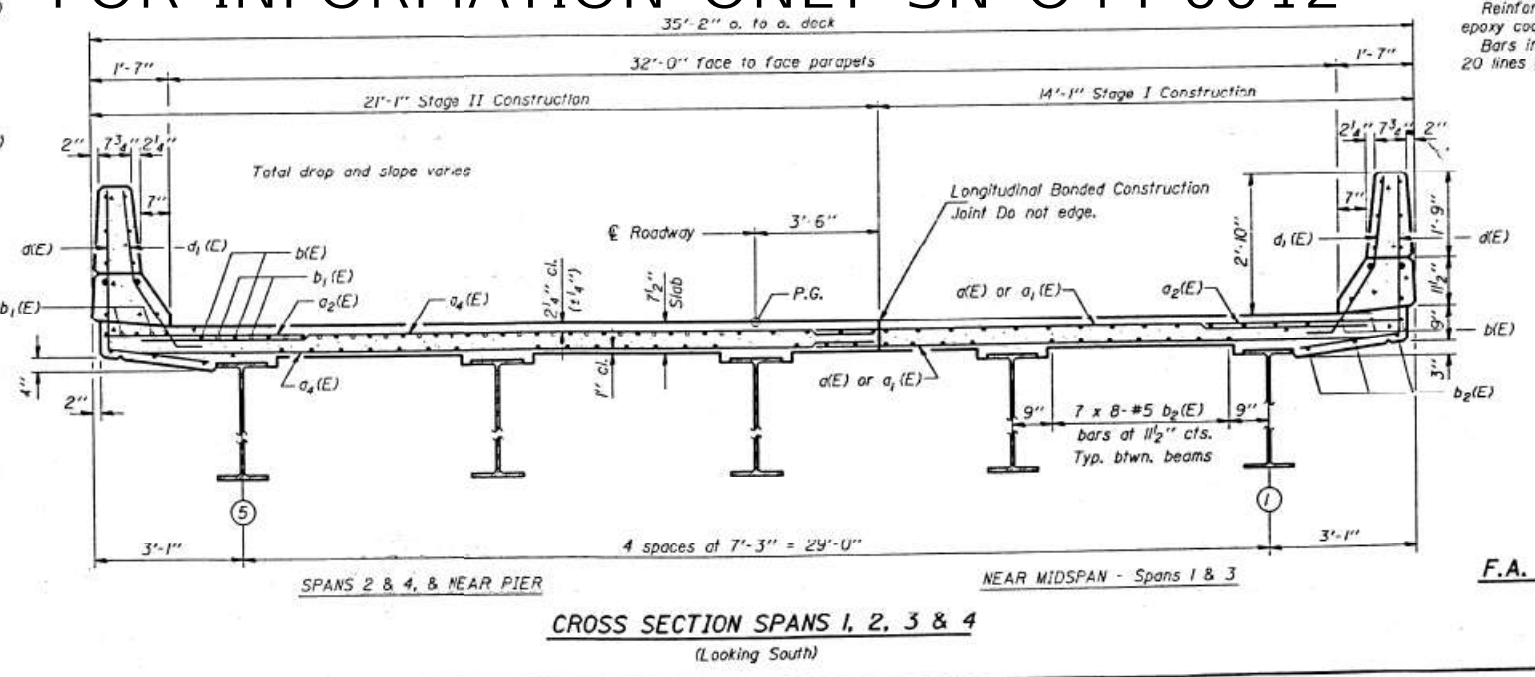
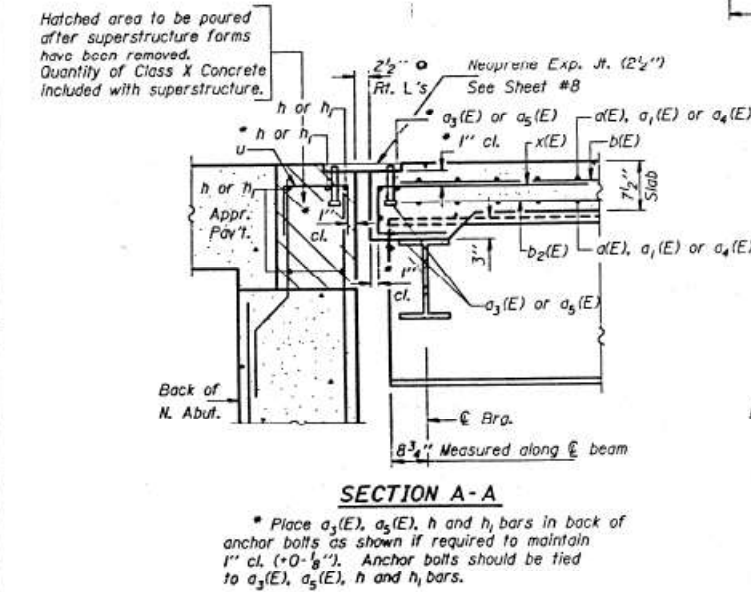
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
F.A. RT. 726	(115VB) DR	Johnson	39	21
SHEET NO. 5 20 SHEETS				



FOR INFORMATION ONLY SN 044-0012



Notes: See sheet #7 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.

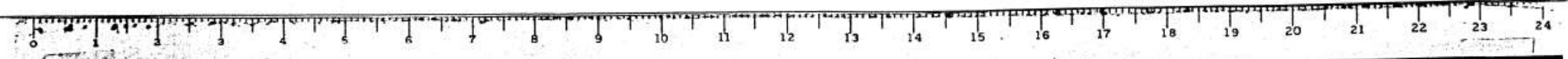
MIN. BAR LAPS
#5 = 1'-8"
#6 = 2'-0"

SUPERSTRUCTURE
F.A. RT. 726 SEC. (115VB)DR
JOHNSON COUNTY
STA. 1492+87.60

DESIGNED *[Signature]*
CHECKED *[Signature]*
DRAWN *[Signature]*
CHECKED *[Signature]*

DATE: May 14, 1985
APPROVED: *[Signature]*
DIRECTOR OF HIGHWAYS

S-1-R(15°) 12-1-83

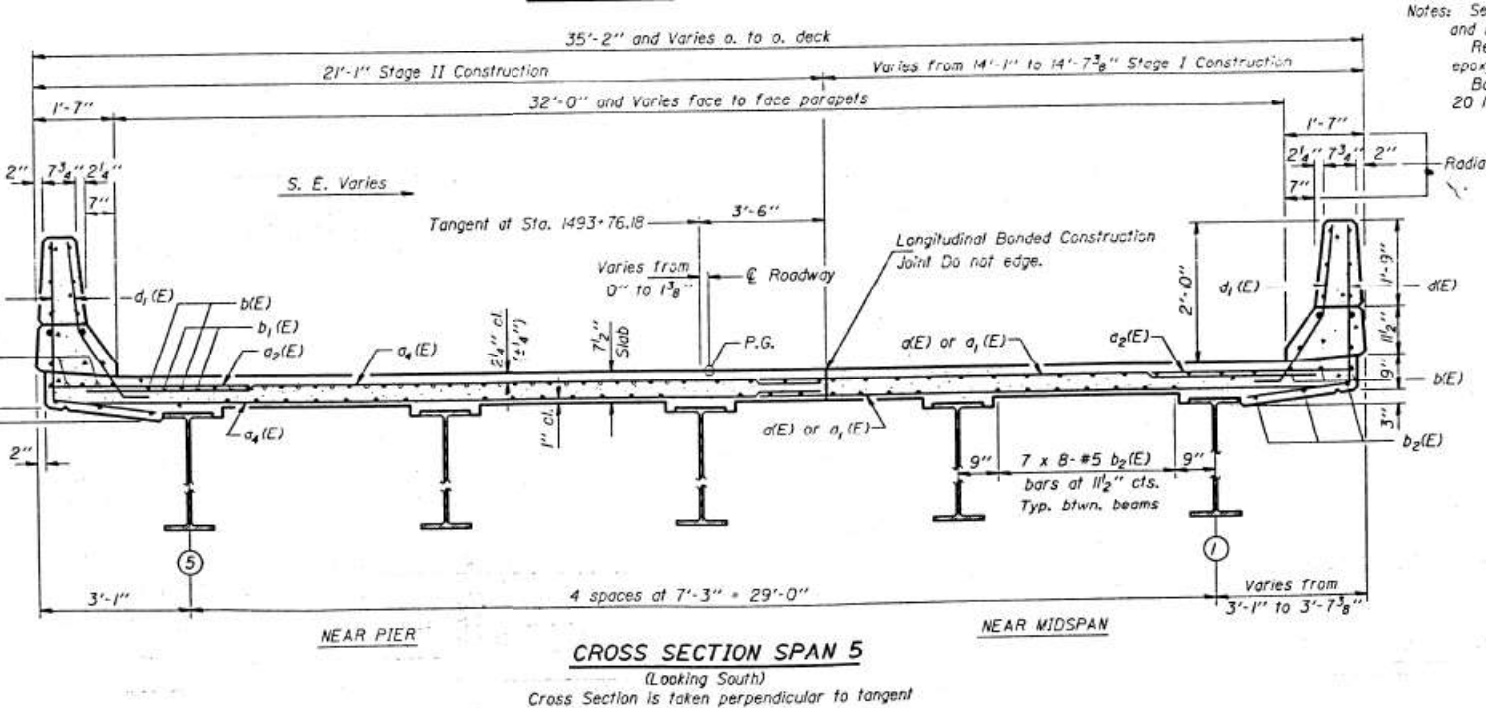
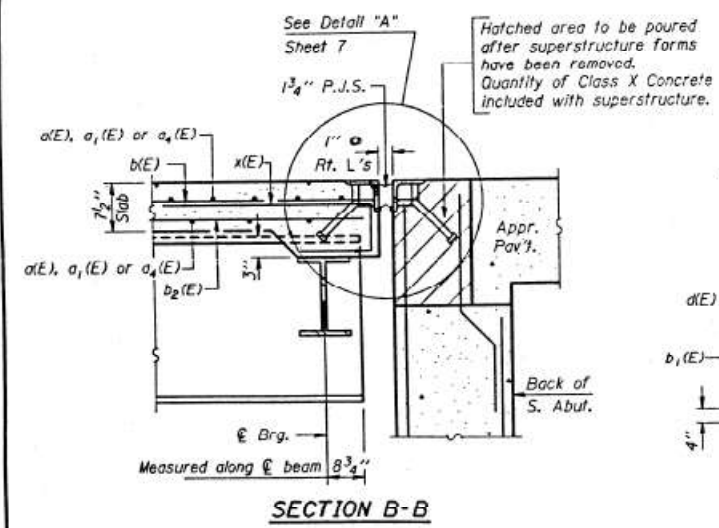
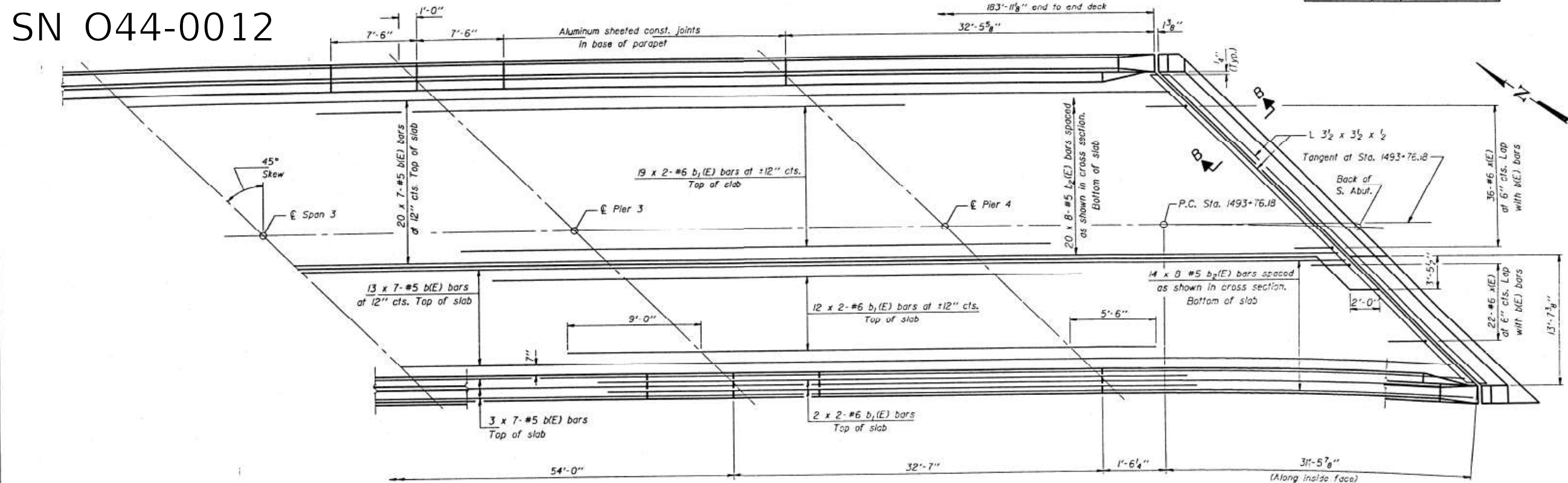


USER NAME = klrtbyea	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		SN 044-0012		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -					VAR	D9 BRIDGE PAINT 2022-1	VARIOUS	51	35
PLOT DATE = 6/24/2021	CHECKED -	REVISED -					SCALE:		SHEET OF SHEETS STA. TO STA.		CONTRACT NO. 78881
	DATE -	REVISED -					ILLINOIS		FED. AID PROJECT		

FOR INFORMATION ONLY
SN 044-0012

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	DATE	DISTRICT	SECTION	SHEET NO.	TOTAL SHEETS
726	1/15/85	DR	Johnson	34	22
					20 SHEETS

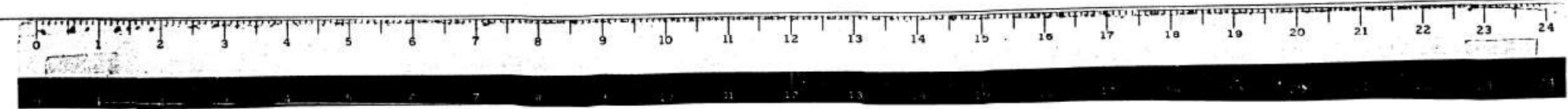


Notes: See sheet #7 for superstructure details and Bill of Material.
Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

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

SUPERSTRUCTURE
F.A. RT. 726 SEC. (115VB)DR
JOHNSON COUNTY
STA. 1492+87.60

DESIGNED	<i>A. J. Brown</i>	EXAMINED	<i>May 14, 1985</i>
CHECKED	<i>R. P. Sumner</i>	PASSED	<i>[Signature]</i>
DRAWN	<i>R. P. Sumner</i>	APPROVED	<i>[Signature]</i>
CHECKED	<i>[Signature]</i>		



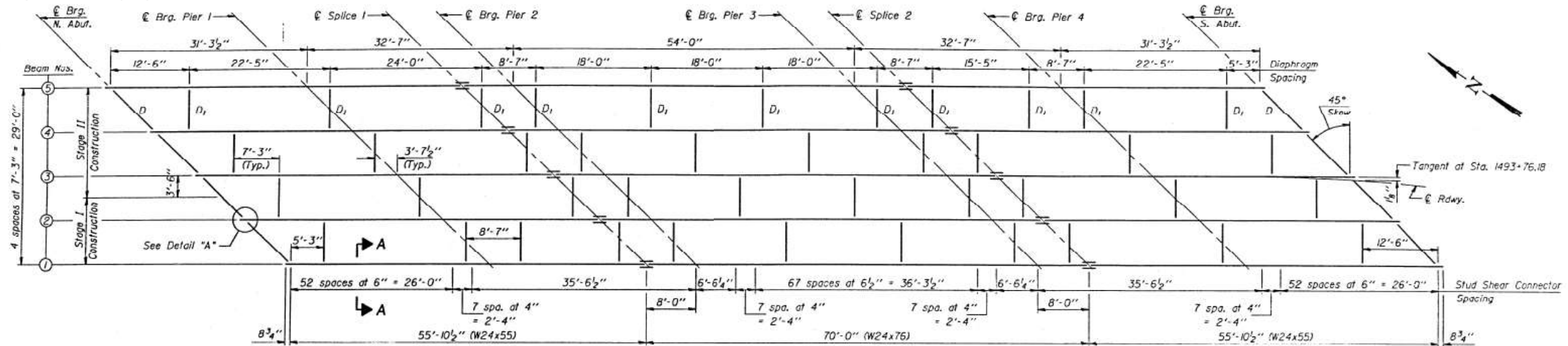
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PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -			VAR	D9 BRIDGE PAINT 2022-1	VARIOUS	51	36
PLOT DATE = 6/24/2021	CHECKED -	REVISED -			SCALE:	SHEET	OF	SHEETS	STA.
	DATE -	REVISED -							TO STA.
									ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY
SN 044-0012

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	SHEET NO.	TOTAL SHEETS
726	(115VB)DR	36	20

SHEET NO. 10
20 SHEETS

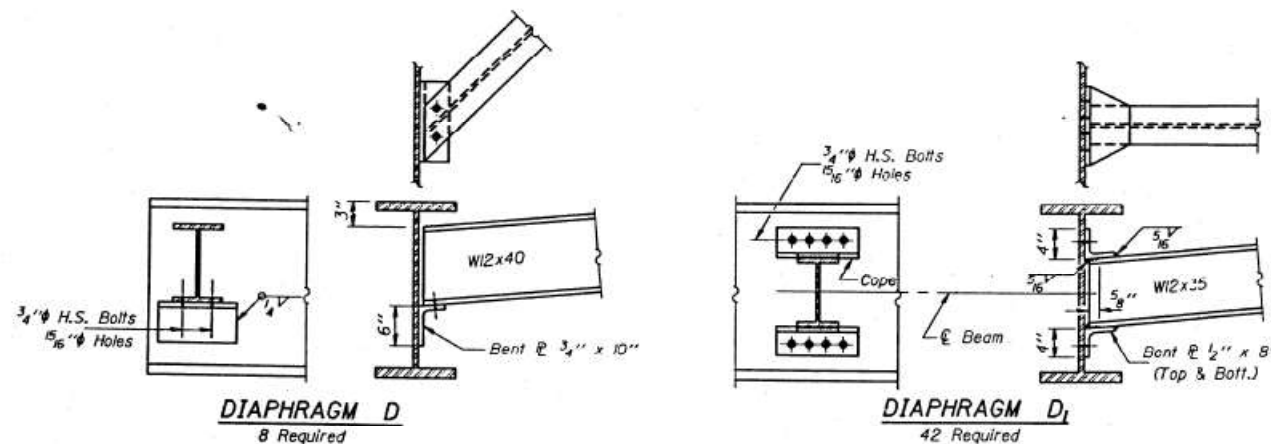


FRAMING PLAN

The wide flange beams and all splice plate material shall be AASHTO M 223 (Gr. 50) and shall conform to the Supplemental Requirements for Notch Toughness Zone 2.

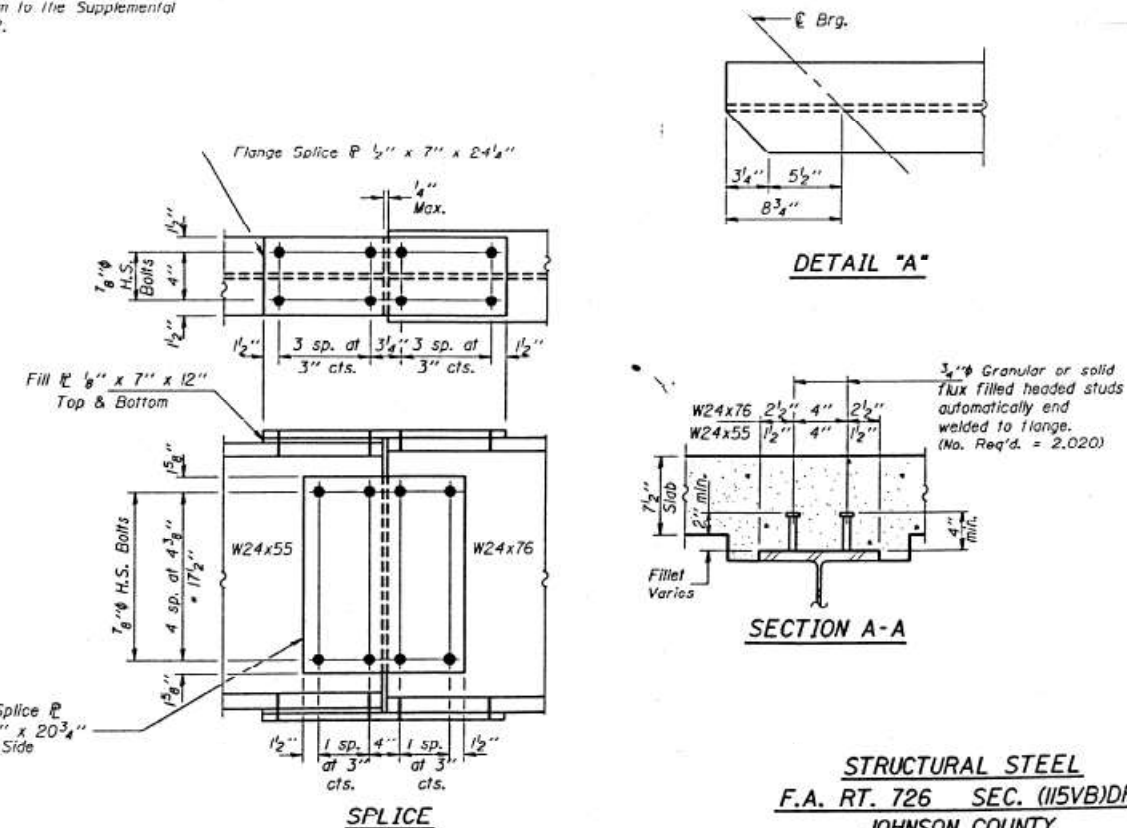
TOP OF BEAM ELEVATIONS

	€ Brg. N. Abut.	€ Pier 1	€ Splice 1		€ Pier 2	€ Pier 3	€ Splice 2		€ Pier 4	€ Brg. S. Abut.
			W24x55	W24x76			W24x76	W24x55		
Beam 1	396.81	396.69	396.59	396.60	396.55	396.20	396.14	396.13	395.92	395.64
Beam 2	369.67	396.65	396.63	396.64	396.61	396.43	396.40	396.39	396.25	396.07
Beam 3	396.49	396.56	396.62	396.63	396.63	396.62	396.62	396.61	396.54	396.40
Beam 4	396.26	396.44	396.57	396.58	396.61	396.77	396.79	396.78	396.79	396.81
Beam 5	396.00	396.27	396.48	396.49	396.54	396.87	396.92	396.91	397.00	397.11



DESIGNED *R.P. Summer* May 14, 1985
 CHECKED *R.P. Summer*
 DRAWN *R.P. Summer*
 CHECKED *R.P. Summer*
 I-2-D 8-30-80

Note: Two hardened washers shall be required over all 5/16" holes.

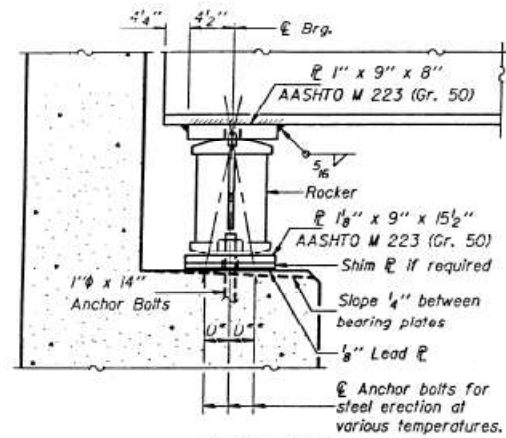


STRUCTURAL STEEL
 F.A. RT. 726 SEC. (115VB)DR
 JOHNSON COUNTY
 STA. 1492+87.60

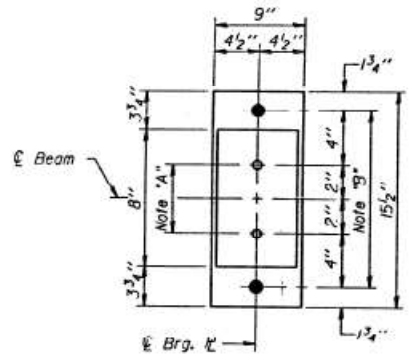
USER NAME = klrbyea	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SN 044-0012	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -			VAR	D9 BRIDGE PAINT 2022-1	VARIOUS	51	37
PLOT DATE = 6/24/2021	CHECKED -	REVISED -			SCALE:	SHEET OF SHEETS	STA.	TO STA.	CONTRACT NO. 78881
	DATE -	REVISED -							ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

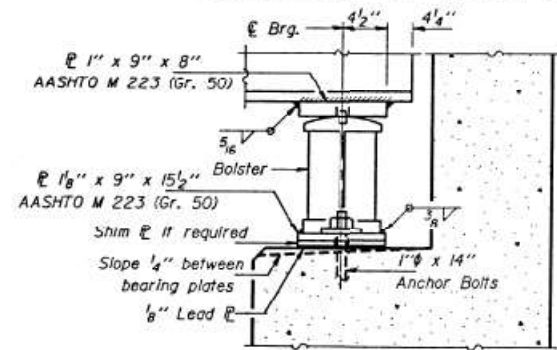
DATE	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
7/26	(115VB) DR	JOHNSON	36	27
SHEET NO. 11 20 SHEETS				



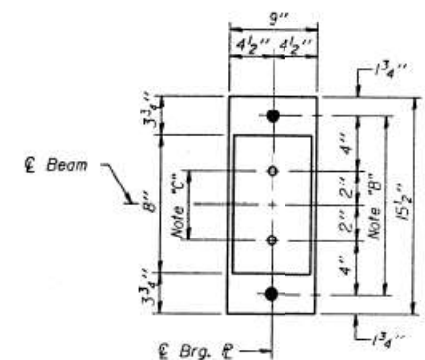
ELEVATION



PLAN
AT N. ABUTMENT



ELEVATION



PLAN
AT S. ABUTMENT

Note "A"
1 3/8" Holes-1" deep in top E for 1 1/4" Pintles. Thread or press fit pintles in bottom E.

Note "B"
1 1/2" Holes for 1" Anchor Bolts-2 1/2" x 2 1/2" x 5/8" E washer under nut.

Note "C"
1 3/8" Holes-1" deep in top E only for 1 1/4" Pintles.

BEARING ASSEMBLY DETAILS

FOR INFORMATION ONLY
SN 044-0012

NOTES FOR SETTING OF ANCHOR BOLTS
AT EXPANSION BEARINGS

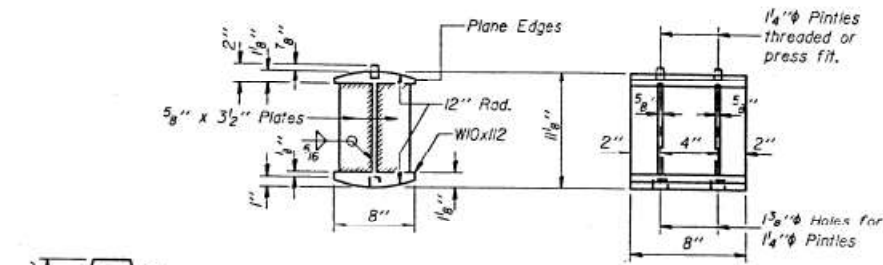
- a.) D* (Side of brg. away from fixed brg.)
D* = 1/8" per each 100' of expansion for every 15° fall below the normal temp. of 50° F.
- D** (Side of brg. toward fixed brg.)
D** = 1/8" per each 100' of expansion for every 15° rise above the normal temp. of 50° F.
- b.) After beams have been erected and dimensions D* & D** determined, holes shall be drilled and anchor bolts shall be installed as shown on sheet #13. All fixed anchor bolts may be built into the masonry.

DESIGNED	(Signature)
CHECKED	(Signature)
DRAWN	R. P. Sumner
CHECKED	(Signature)

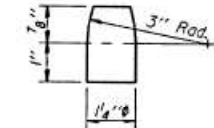
May 14, 1985

EXAMINED (Signature)
PASSED (Signature)
APPROVED (Signature)

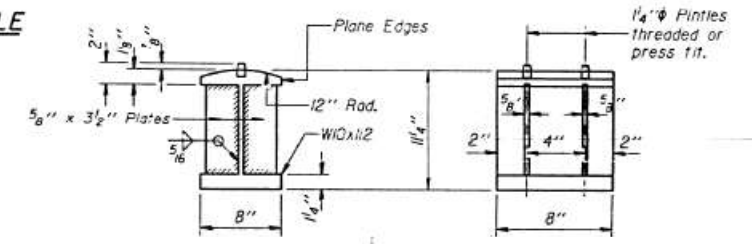
I-2-B 12-1-83



ROCKER



PINTLE



BOLSTER

	0.4 Sp. 1 or 0.6 Sp. 5	Piers 1 or 4	0.5 Sp. 2 or 0.5 Sp. 4	Piers 2 & 3	0.5 Sp. 3
I _s (in ⁴)	1350	1350	1350	2100	2100
I _c (in ⁴)	5094	—	—	—	6937
S _s (in ³)	114	114	114	176	176
S _c (in ³)	205	—	—	—	285
W (K/ft.)	750	1095	1095	1121	776
M _P (K)	65	81	2	206	130
S _P (K/ft.)	345	—	—	—	345
M _S (K)	31	—	—	—	73
M _L (K)	178	109	122	148	335
M (Imp) (K)	53	33	37	43	94
M _u (K)	385	237	265	318	715
M _a (K)	625	413	347	681	1193
M _u (K)	—	—	—	—	1688
f _s P non-comp (k.s.i.)	6.8	8.5	.2	14.0	8.9
f _s P (comp) (k.s.i.)	1.8	—	—	—	5.0
f _s S ₂ (k+I) (k.s.i.)	22.5	24.9	27.9	21.7	30.1
f _s (Overload) (k.s.i.)	31.1	33.4	28.1	35.7	44.0
f _s (Total) (k.s.i.)	40.4	43.4	36.5	46.4	—
VR (K)	46.1	—	—	—	44.6

	Abut.	Piers 1 or 4	Piers 2 or 3
R _P (K)	14.5	33.7	51.9
R _L (K)	32.2	40.3	43.7
Imp. (K)	9.7	12.1	12.7
R (Total) (K)	56.4	86.1	108.3

I_s and S_s are the moment of inertia and section modulus of the steel section used in computing f_s (Total & Overload).

I_c and S_c are the moment of inertia and section modulus of the composite section used in computing f_s (Total & Overload).

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

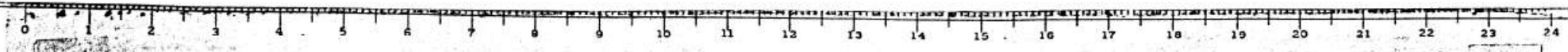
M_a (Applied Moment) = 1.3[M_P + M_S + S₂(M_L + I)].

M_u is the Full Plastic Moment Capacity for Compact, Braced section.

f_s (Overload) is the sum of the stresses due to M_P + M_S + S₂(M_L + I).

f_s (Total) is the sum of the stresses due to 1.3[M_P + M_S + S₂(M_L + I)].

BEARING DETAILS
F.A. RT. 726 SEC. (115VB)DR
JOHNSON COUNTY
STA. 1492+87.60



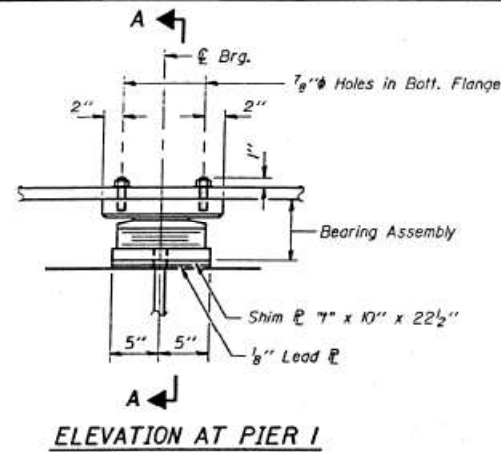
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USER NAME = klrbyea	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SN 044-0012	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 100,000' / in.	DRAWN -	REVISED -			VAR	D9 BRIDGE PAINT 2022-1	VARIOUS	51	38
PLOT DATE = 6/24/2021	CHECKED -	REVISED -			SCALE:				CONTRACT NO. 78881
	DATE -	REVISED -			SHEET	OF	SHEETS	STA.	TO STA.
							ILLINOIS	FED. AID PROJECT	

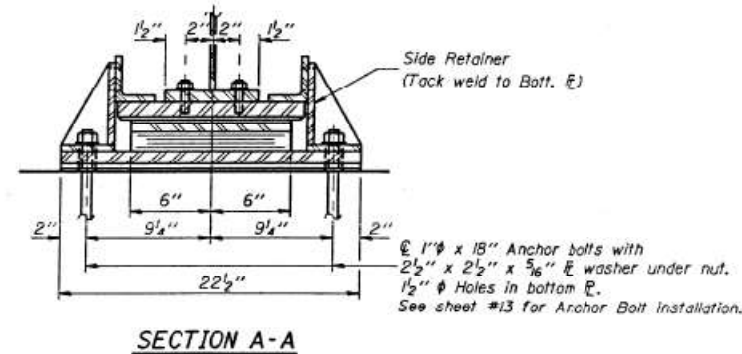
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	DATE	SHEET NO.	TOTAL SHEETS
726	(115VB)DR	Johnson	36	28
SHEET NO. 12 20 SHEETS				

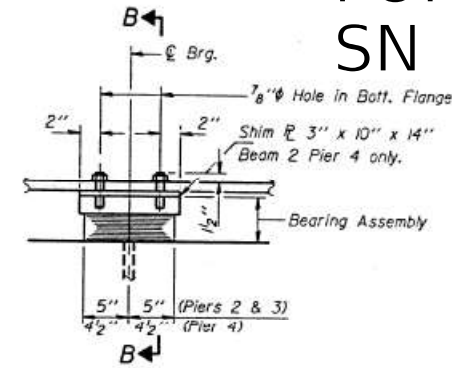
FOR INFORMATION ONLY
SN 044-0012



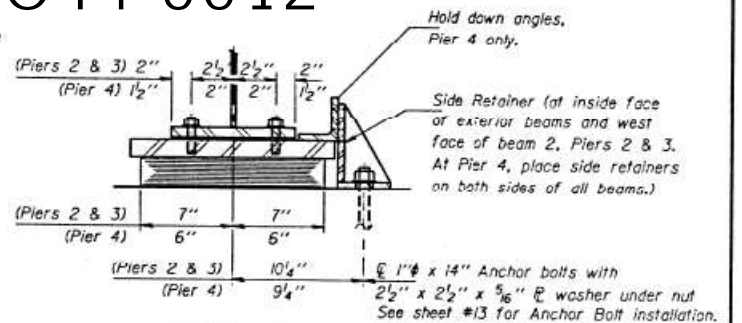
ELEVATION AT PIER 1



SECTION A-A

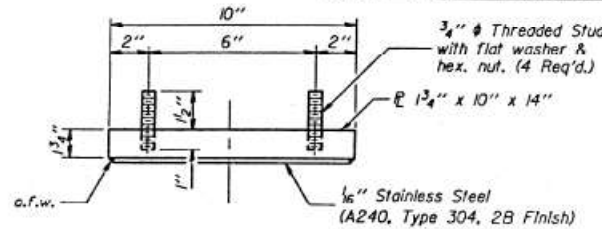


ELEVATION AT PIERS 2, 3 & 4

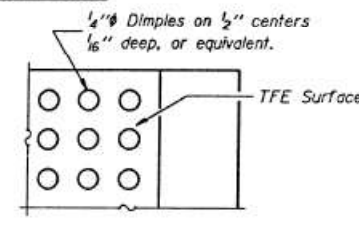


SECTION B-B

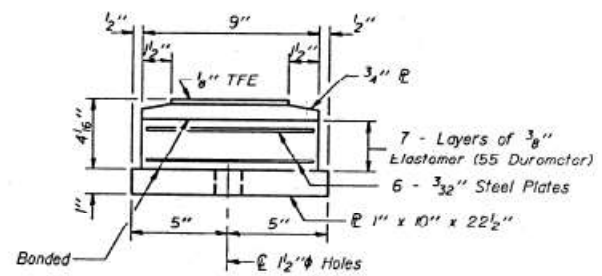
TYPE II TFE ELASTOMERIC EXP. BRG.



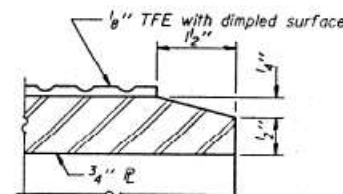
TOP BEARING ASSEMBLY



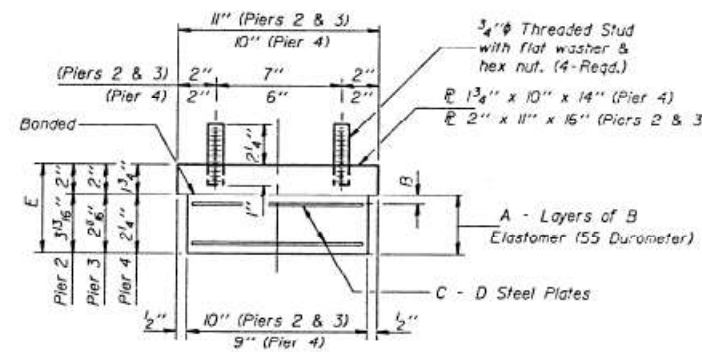
PLAN-TFE SURFACE



BOTTOM BEARING ASSEMBLY



SECTION THRU TFE



BEARING ASSEMBLY

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

TYPE I ELASTOMERIC BRG. TABLE

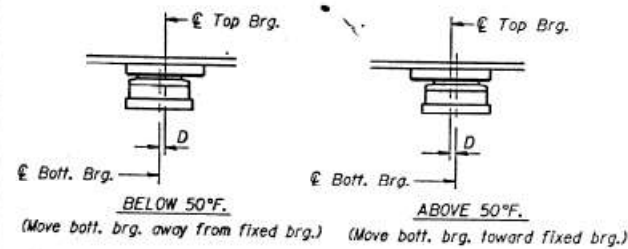
	"A"	"B"	"C"	"D"	"E"
Pier 2	7	7/16"	6	1/8"	5 13/16"
Pier 3	5	7/16"	4	1/8"	4 1/8"
Pier 4	5	3/8"	4	3/32"	4"

SHIM PLATE THICKNESS 7" FOR PIER 1

Beam 2	Beam 3	Beam 4	Beam 5
2-2" R & 1-3/8" R	1-1 1/2" R & 1-2" R	1-1 1/2" R & 1-1 1/2" R	1-1 1/2" R

Note: All structural steel in the bearing assemblies shall be AASHTO M 222.

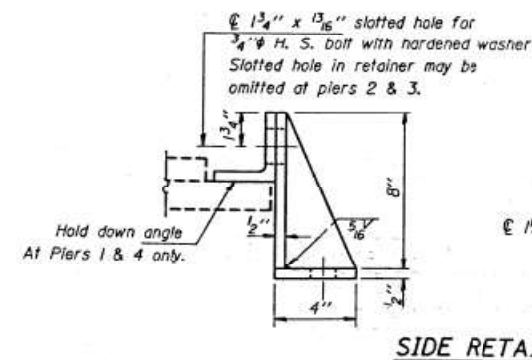
Notes: The 1/8" TFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces. Bonding of 1/8" TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.



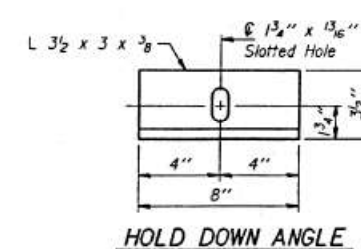
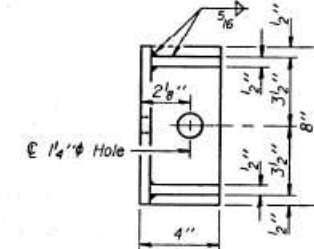
SETTING ANCHOR BOLTS AT PIER 1

D = 1/8" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°.

DESIGNED	R. P. Summer	EXAMINED	R. P. Summer	DATE	May 14, 1985
CHECKED	R. P. Summer	PASSED	R. P. Summer		
DRAWN	R. P. Summer	APPROVED	R. P. Summer		
CHECKED	R. P. Summer				



SIDE RETAINER



HOLD DOWN ANGLE

Hold down angle and bolts shall be removed after the deck pour.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	15
Elastomeric Bearing Assembly Type II	Each	5

BEARING DETAILS
F.A. RT. 726 SEC. (115VB)DR
JOHNSON COUNTY
STA. 1492+87.60

GENERAL NOTES

The contractor shall drive one concrete test pile in a permanent location at the west abutment and one timber test pile in the vicinity of pier 2 as directed by the engineer before ordering the remaining piles.

Course aggregate to be used in parapet handrail 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 Article 51.19 of the Standard Specifications.

The slope wall shall be reinforced with welded wire fabric, 6" X 6" mesh, weighing 56 per 100 sq. ft.

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

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

Anchor bolts shall be set before riveting diaphragms over supports.

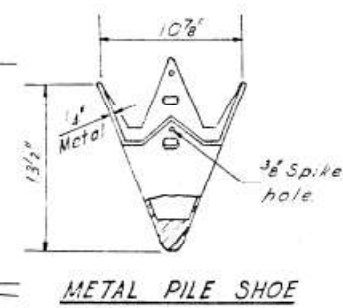
Rivets 3/4" #, open holes 1 1/8", unless otherwise noted.

The exposed surfaces of the end of slab protective device 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.

The end of slab protective devices are included in the quantity of structural steel. Estimated weight 640 lbs.

Except as otherwise provided, all structural steel shall receive one shop coat of red lead paint and two field coats of aluminum paint. See Articles 56.1 to 56.5 inclusive of the Standard Specifications.

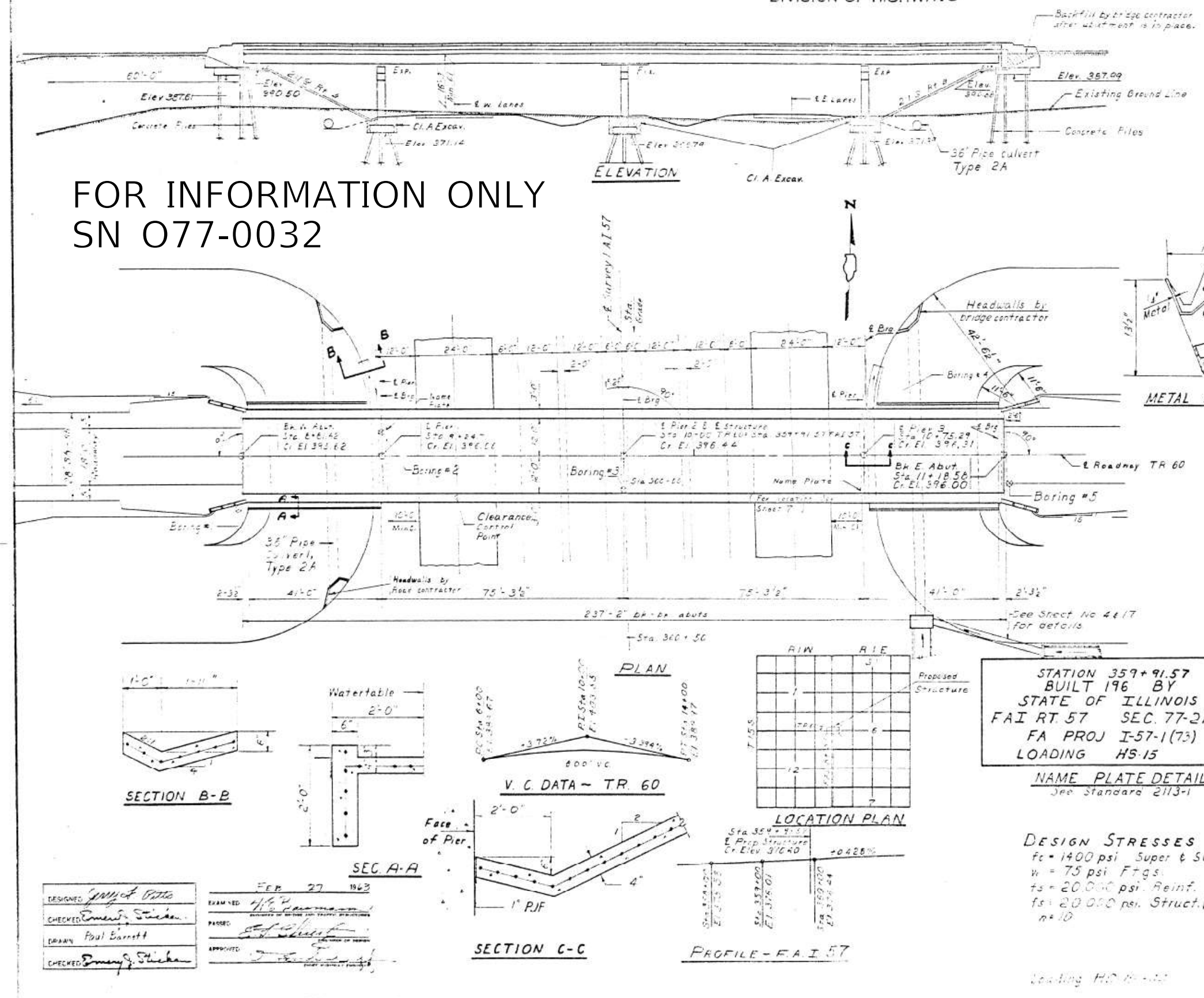
Concrete piles at the abutments shall be driven in holes precast through the embankment in accordance with Article 60.9 of the Standard Specifications.



BILL OF MATERIAL

Item	Unit	Super.	Sub.	Total
Class A Excavation	Cu. Yds		130	130
Class X Concrete	Cu. Yds	212.8	201.0	413.8
Structural Steel	Lbs	173580		173580
Handrail (Aluminum)	Lin. Ft	468		468
Reinforcement Bars	Lbs	45710	16,690	62,400
Crested Piles (Jp 20)	Lin. Ft.			420
Crested Piles (20'-38')	Lin. Ft.			782
Test Piles (Timber)	Each			1
Concrete Piles	Lin. Ft.			765
Test Piles (Concrete)	Each			1
Name Plates	Each		2	2
Slope Wall (4")	Sq. Yd.			360
Protective Coat	Sq. Yd.	930		930
Pipe Culvert (Type 2A) 36" Dia	Lin. Ft.			194
Metal Shoes	Each			55

FOR INFORMATION ONLY
SN 077-0032



STATION 359+91.57
BUILT 196 BY
STATE OF ILLINOIS
FAI RT. 57 SEC. 77-2HB-1
FA PROJ I-57-1(73)
LOADING HS-15

NAME PLATE DETAIL
See Standard 2113-1

DESIGN STRESSES
fc = 1400 psi Super & Sub
w = 75 psi Ftgs.
ts = 20,000 psi Reinf.
fs = 20,000 psi Struct. (A-36 Steel)
n = 10

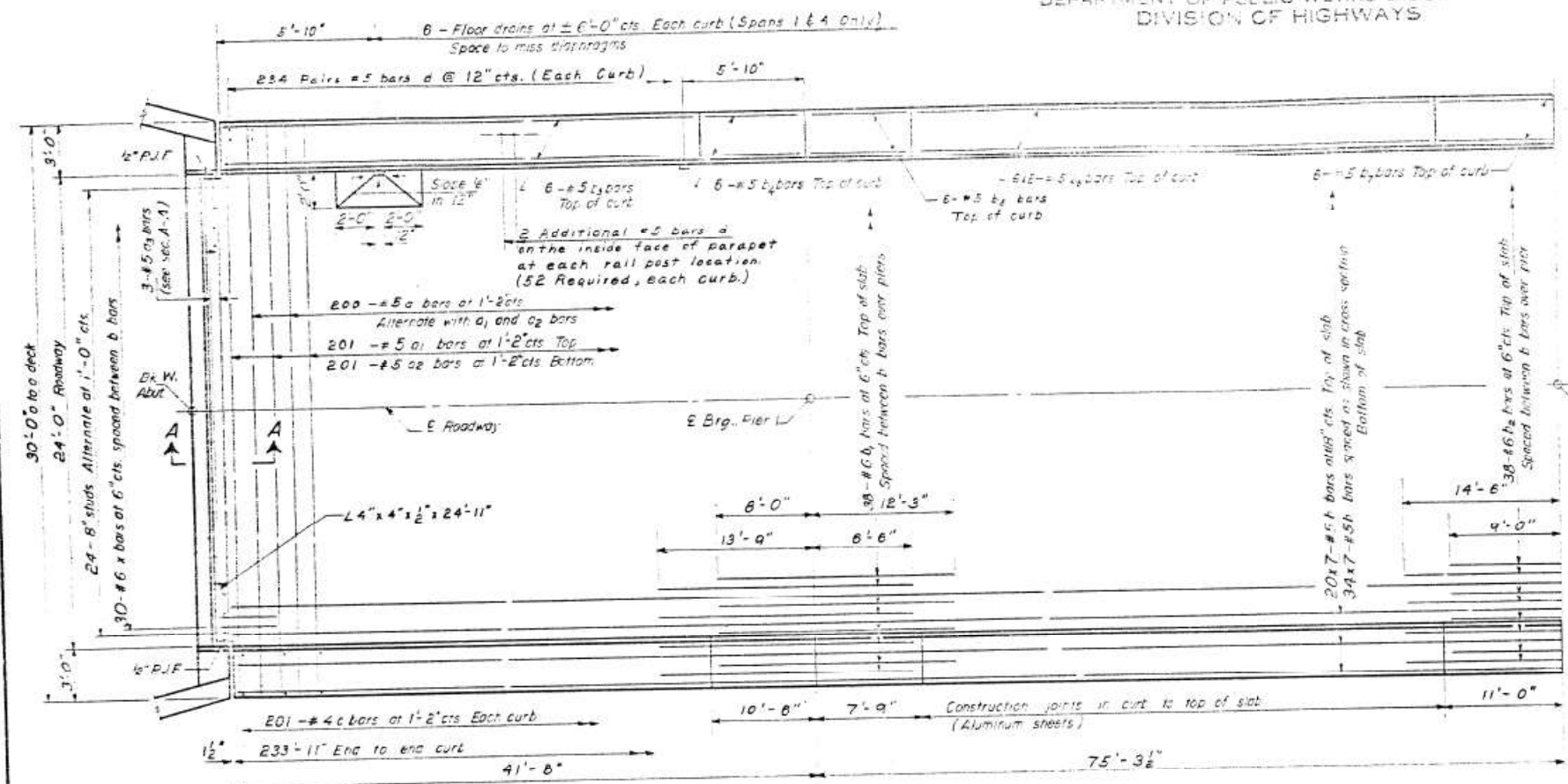
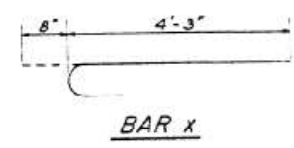
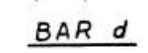
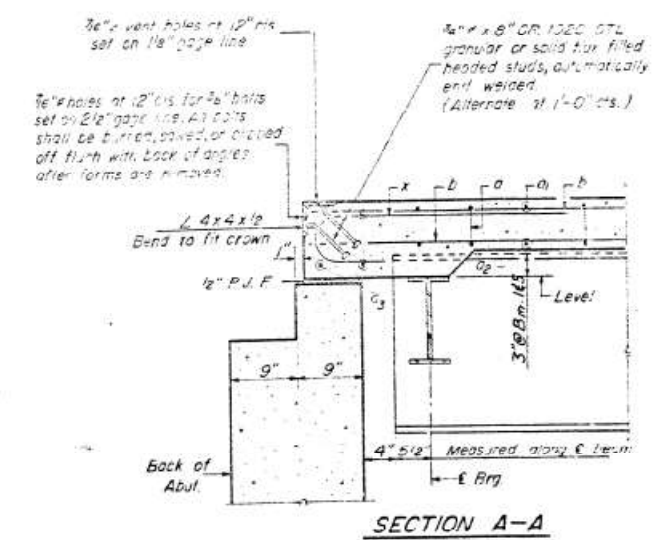
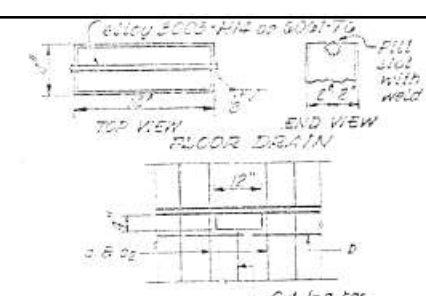
PROJ I-57-1(73)14
T.R. 60 OVER F.A.I. RT. 57
SEC. 77-2HB-1
PULASKI COUNTY
STA. 359+91.57

DESIGNED: *Wm. J. Otto*
CHECKED: *Emery J. Sticken*
DRAWN: *Paul Barrett*
CHECKED: *Emery J. Sticken*

EXAMINED: *Wm. J. Otto*
APPROVED: *Wm. J. Otto*

FEB. 27 1963

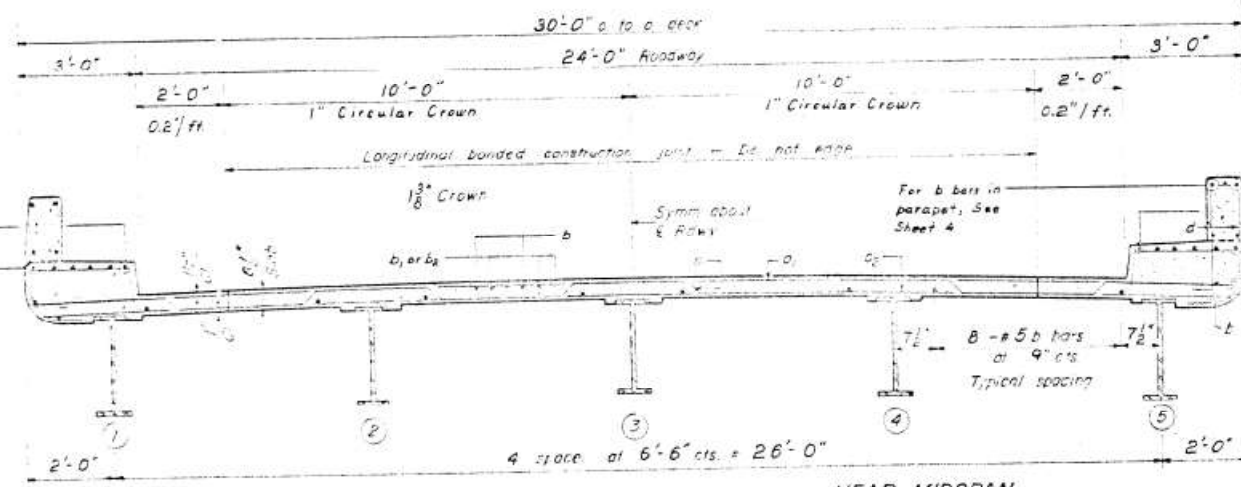
Revised W.H. 721-63 1965 Cu. Yds. bottom Excavation removed. Quantity of Pipe Culvert 36" Type 2A changed from 170 Lin. Ft. to 194 Lin. Ft. Detail of Metal Shoe.



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

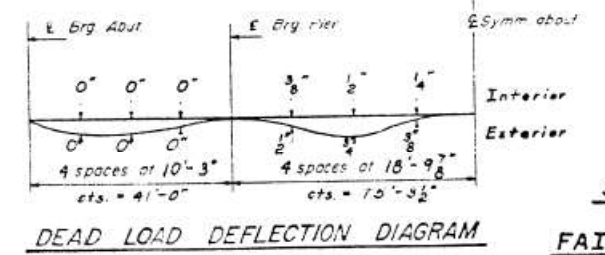
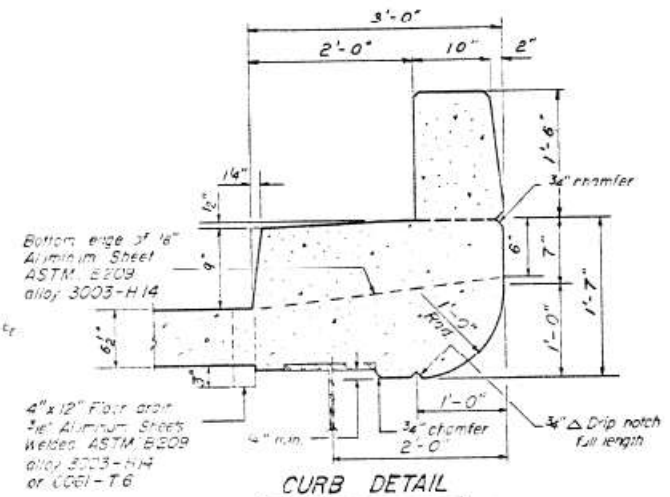
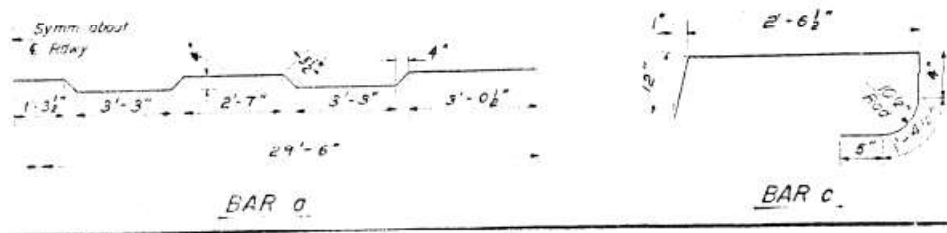
STANDARD FILLET DETAIL

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 Elevation Adjusted for Dead Load Deflections" shown on sheet 3, minus slab thickness, equals the fillet height "t" above top of beams



NEAR PIERS

NEAR MIDSPAN
For shear connectors, see sheet 5



BILL OF MATERIAL

Bar	No.	Size	Length	Spaced
a	200	#5	30'-6"	
a ₁	201	#5	29'-6"	
a ₂	201	#5	28'-6"	
a ₃	6	#5	23'-9"	
b	378	#5	34'-6"	
b ₁	76	#5	20'-3"	
b ₂	38	#6	23'-6"	
b ₃	41	#5	30'-11"	
b ₄	40	#5	10'-3"	
b ₅	40	#5	7'-6"	
b ₆	46	#5	28'-9"	
b ₇	40	#5	10'-9"	
b ₈	32	#5	15'-4"	
c	402	#4	5'-5"	
d	1040	#5	2'-9"	
x	60	#6	4'-11"	
b ₉	64	#5	13'-10"	
Reinforcement Bars				Lbs. 45,710
Structural Steel				Lbs. 173,550
Class X Concrete				Cu. Yds. 212.8

* Weight of bearing assemblies with load plates, and anchor bolts are included as structural steel.
Est. Wt. = 6470*

SUPERSTRUCTURE
FAI RT. 57 SEC 77-2HB-1
PULASKI COUNTY
STA. 359+91.57

DESIGNED: Jerry J. O'Brien
CHECKED: Robert J. Strohman
DRAWN: P. B. Barnatt
DATE: 6/24/2021

FAI 27 1163
DATE: 6/24/2021

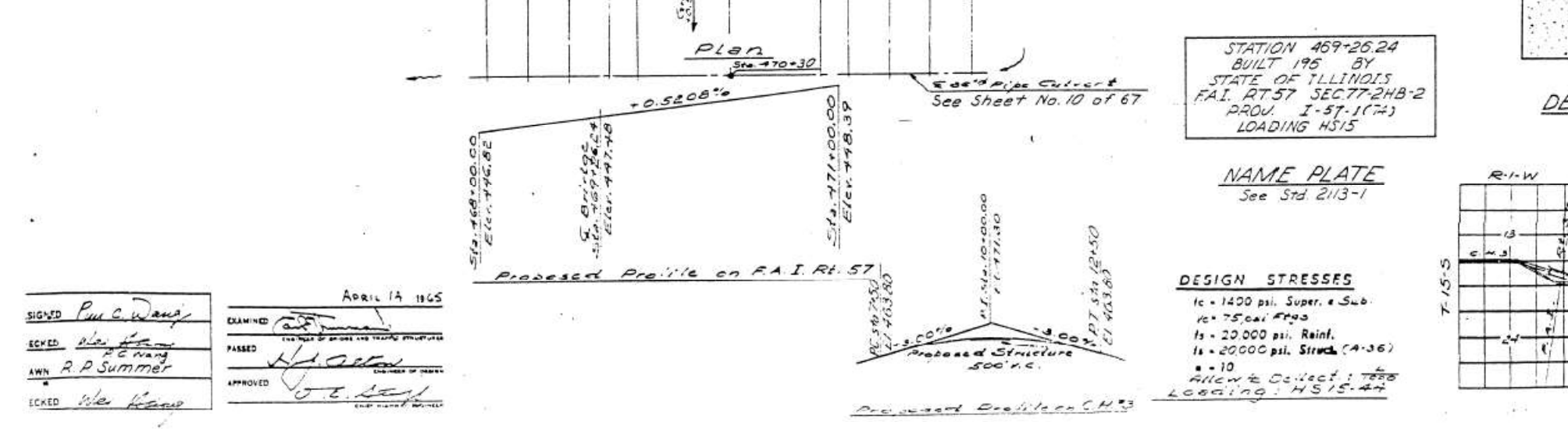
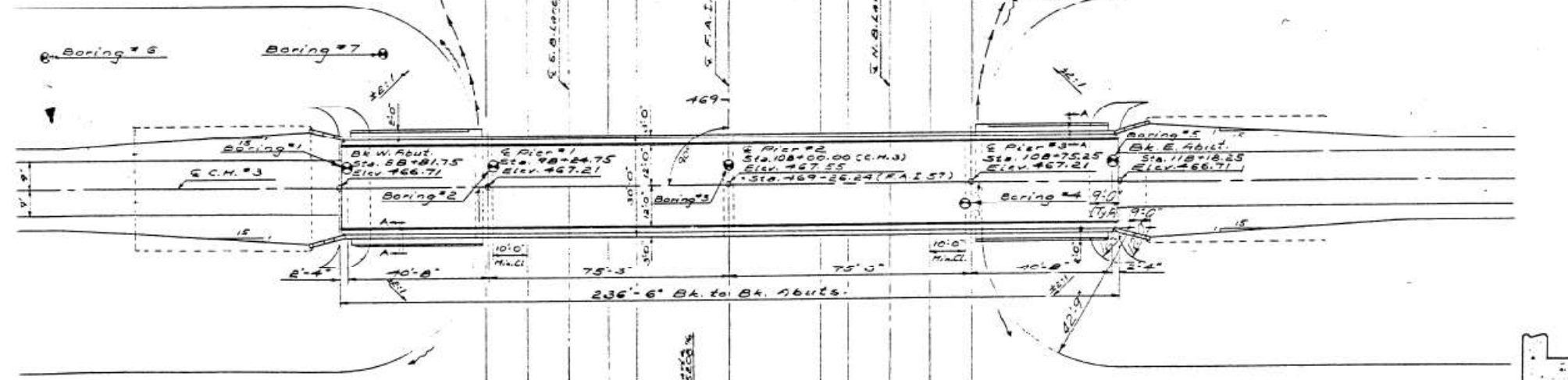
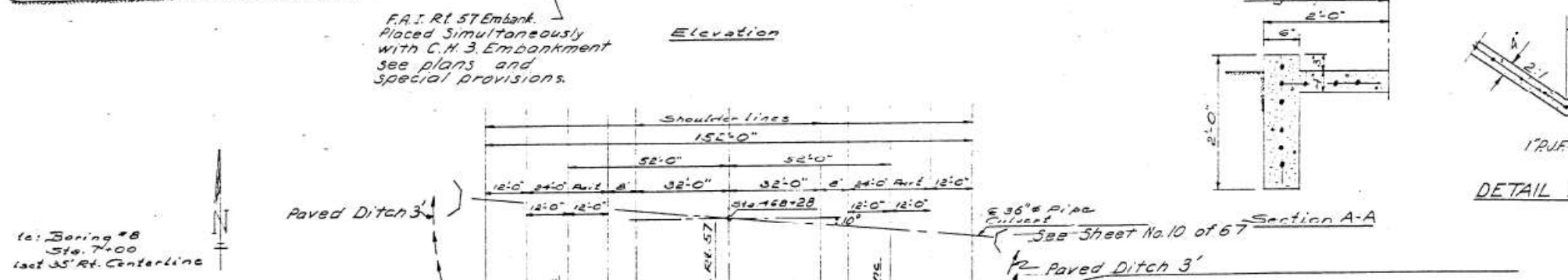
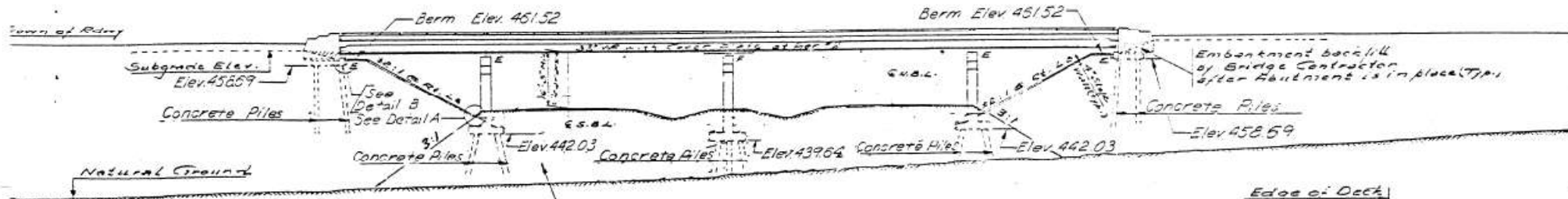
FOR INFORMATION ONLY SN 077-0032

M: U.S.G.S. Standard Disc. Stamped 1927
166' Lt. Sta. 469+02 Elev. 436.64.

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

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
177-2	PULASKI	68	14	11 SHEETS

FOR INFORMATION ONLY SN 077-0033

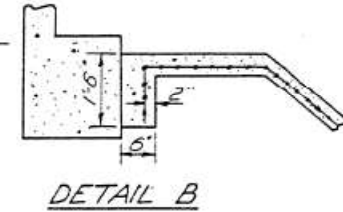


GENERAL NOTES

Coarse aggregate to be used in parapet handrails and end post must be free of chert, flint, limonite, lignite and soft sandstone. The concrete floor slab shall be finished in accordance with Art. 519 of the Standard Specifications. Slope Wall 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. All structural steel shall conform to ASTM Designation A-36. Rivets 3/4", Open Holes 1 1/8", 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 = 760 Lbs. Except as otherwise provided, all structural steel shall receive one shop coat of red lead paint and two field coats of aluminum paint. See Article 56.1 to 56.5 inclusive of the Standard Specifications. All concrete Piles shall be driven in holes precast thru the embankment in accordance with Article 60.9 (c) of the Standard Specifications. The contractor shall drive one concrete test pile at the West Abutment, and one conc. test pile at Pier #2, both in the perm. locations as directed by the Engineer before ordering the remainder of piles. Excavation for portions of structures in the embankment shall not be classified.

TOTAL BILL OF MATERIAL

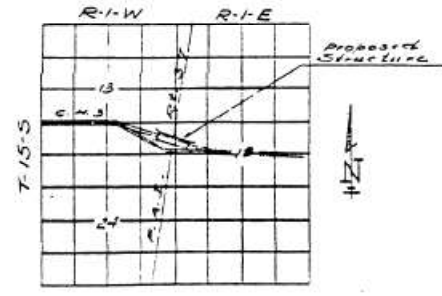
Item	Unit	Super	Sub	Total
Class X Concrete	Cu Yds.	214.0	182.3	396.3
Structural Steel	Lbs.	187,910		187,910
Aluminum Handrail	Lin. Ft.	466		466
Reinforcement Bars	Lbs.	43,750	15,450	59,200
Concrete Piles	Lin. Ft.		28.31	28.31
Test Piles (Concrete)	Ea.		2	2
Name Plates	Ea.		2	2
Slope Wall (4")	Sq. Yds.			36.0
Protective Coat	Sq. Yds.	857		857



STATION 469+26.24
BUILT 195 BY
STATE OF ILLINOIS
F.A.I. RT 57 SEC. 77-2HB-2
PROV. I-57-1(74)
LOADING HS15

NAME PLATE
See Std. 2113-1

DESIGN STRESSES
fc = 1400 psi. Super. & Sub.
fs = 75,000 psi. Frgs.
fs = 20,000 psi. Reinf.
fs = 20,000 psi. Struck (A-36)
n = 10
Allow. to Collect: 1750
LOADING: HS15-44



SIGNED: *Paul C. Ward*
CHECKED: *W. P. Summer*
APPROVED: *W. P. Summer*

EXAMINED: *[Signature]*
PASSED: *[Signature]*
APPROVED: *[Signature]*

APRIL 14 1965

MODEL: Default
 FILE: NAME: pulaski.dwg
 PROJECT: I-57-1(74)
 SHEET: 11
 DATE: 6/24/2021

USER NAME = klrbyea	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 6/24/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

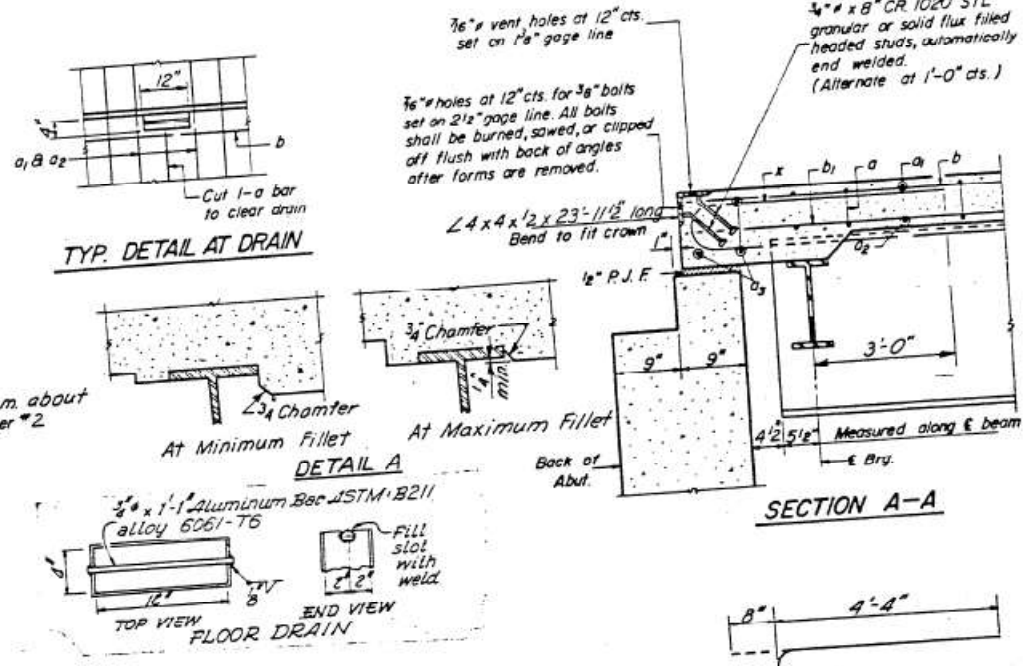
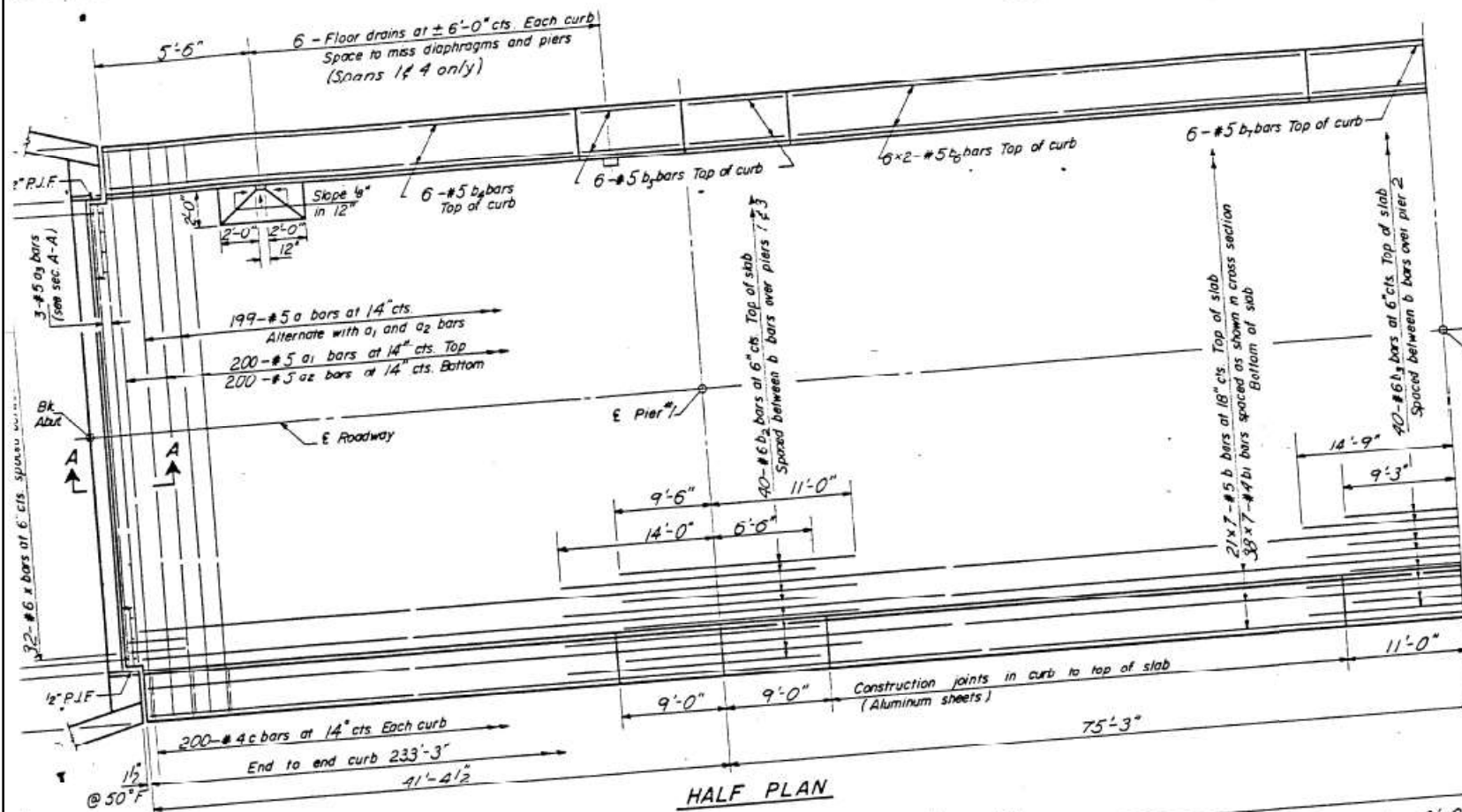
SN 077-0033

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE PAINT 2022-1	VARIOUS	51	43
			CONTRACT NO. 78881	
		ILLINOIS	FED. AID PROJECT	

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

F.A. RT. 57 SEC. 77-2HB-2
PULASKI COUNTY
STA. 469+26.24



Optional Construction Joint - See Special Provisions. Not permitted with longitudinal joints.

4" wide Joint Sealant with horizontal joint. See Special Provisions.

Bottom edge of 1/2" Aluminum Sheet ASTM B209 alloy 3003-H14

4" x 12" Floor drain 3/16" Aluminum Sheets Welded ASTM B209 alloy 3003-H14 or 6061-T6

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

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	199	#5	30'-7"	
a1	200	#5	29'-7"	
a2	200	#5	28'-9"	
a3	0	#5	23'-9"	
b	147	#5	34'-3"	
b1	266	#4	34'-9"	
b2	80	#6	20'-6"	
b3	40	#6	24'-0"	
b4	24	#5	32'-0"	
b5	48	#5	8'-9"	
b6	48	#5	28'-3"	
b7	24	#5	10'-9"	
c	400	#4	5'-9"	
x	64	#6	5'-0"	

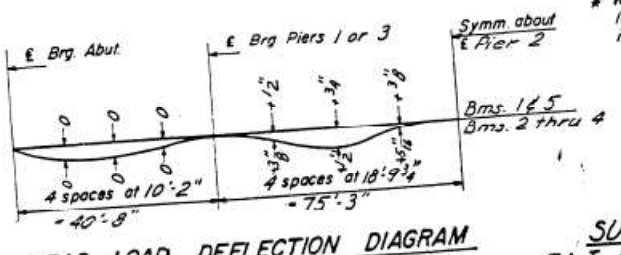
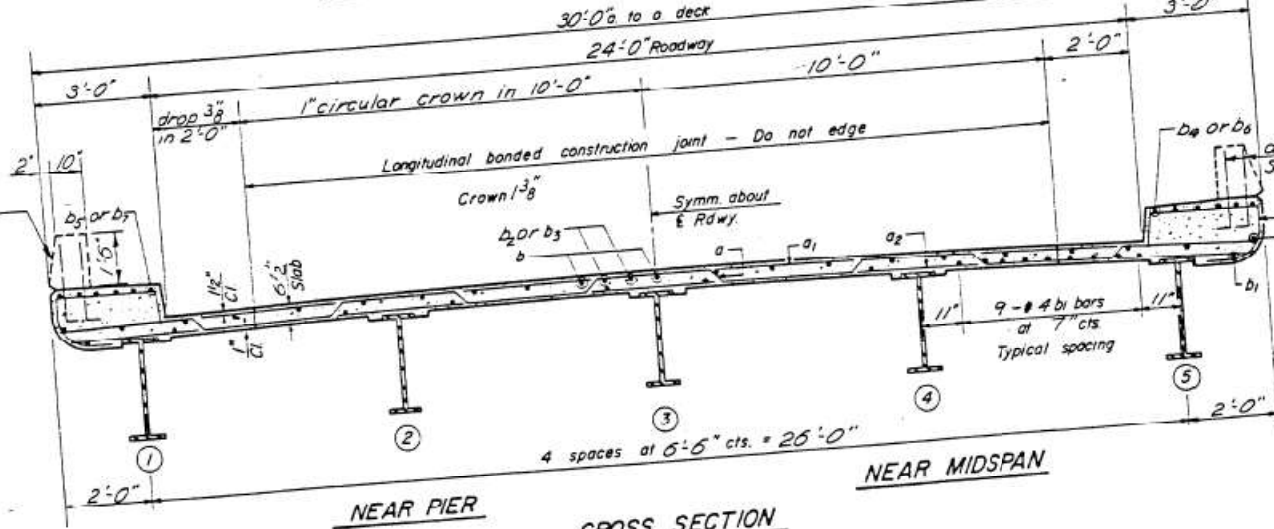
Reinforcement Bars Lbs. 38,850
Structural Steel Lbs. 18,790
Class X Concrete Cu. Yd. 190.2

* Weight of bearing assemblies with lead plates, and anchor bolts are included as structural steel. Est. Wt. = 6870 Lbs.

Bars indicated thus 20x3-#5 etc. indicates 20 lines of bars with 3 lengths per line. 4 in bar laps = 20 dia.

STANDARD FILLET DETAIL
"mine 1" - After all structural steel has been placed, elevations of the top flanges of the beams are taken at intervals shown on sheet 2. These are subtracted from the "Grade Elevations Adjusted for Load Deflections" shown on sheet 2, minus "rod thickness," equals the fillet heights "1" above top flanges.

APRIL 14 1965
DESIGNED: Paul C. Wang
CHECKED: Wm. H. ...
APPROVED: J. E. ...



(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 2.

SUPERSTRUCTURE
F.A.I. RT. 57 SEC. 77-2HB-2
PULASKI COUNTY
STA. 469+26.24

FOR INFORMATION ONLY SN 077-0033

USER NAME = klrbyea	DESIGNED -	REVISED -	F.A. RT. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 100,000' / 1 in.	DRAWN -	REVISED -	VAR D9 BRIDGE PAINT 2022-1	VARIOUS	51	44
PLOT DATE = 6/24/2021	CHECKED -	REVISED -	CONTRACT NO. 78881			
	DATE -	REVISED -	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

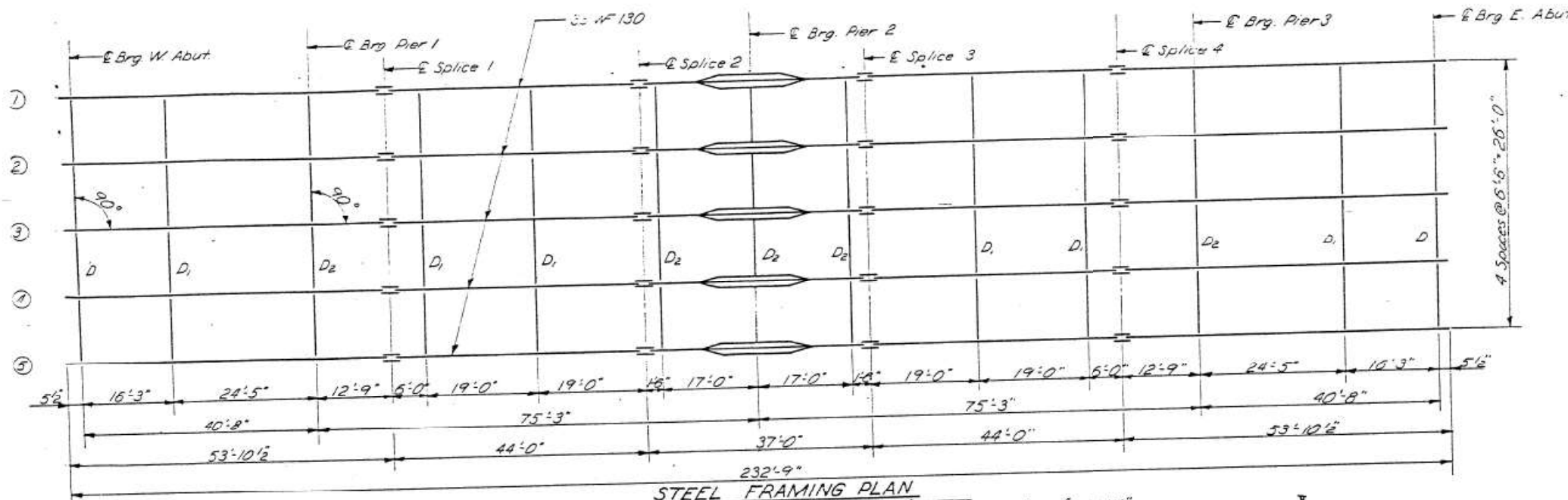
SN 077-0033

SCALE: SHEET OF SHEETS STA. TO STA.

FOR INFORMATION ONLY SN 077-0033

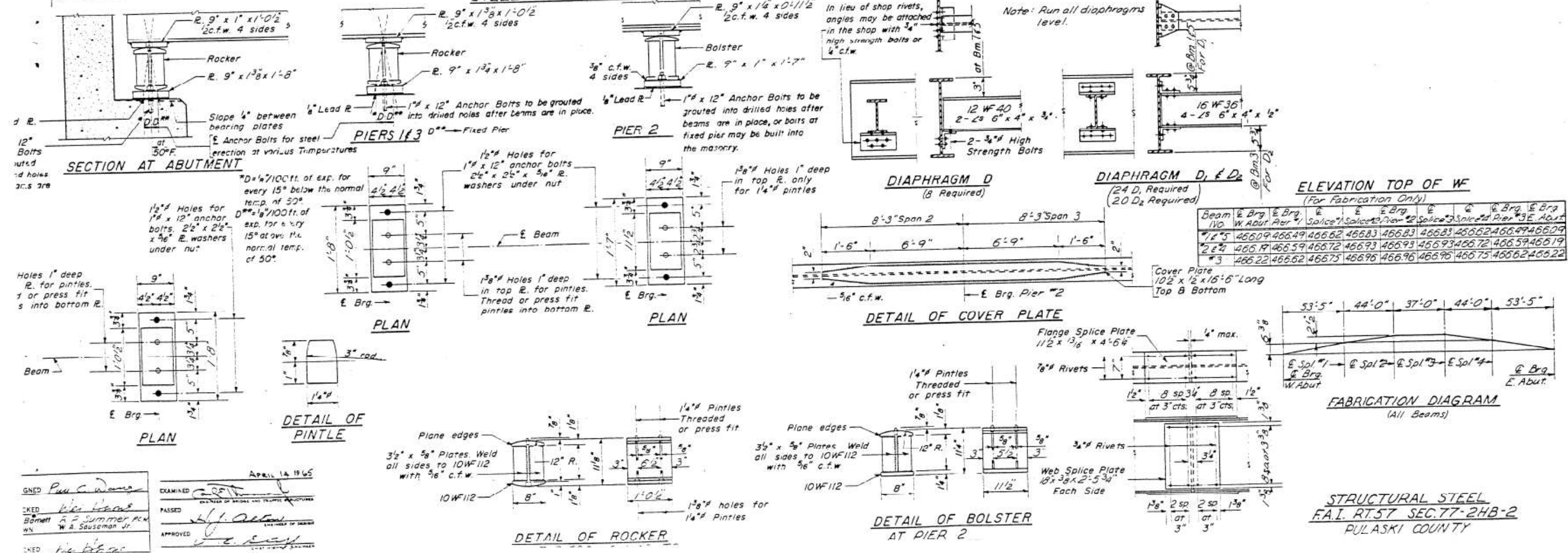
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
77	24B-1	PULASKI	68	17
SHEET NO. 17 OF 68 SHEETS				



**TABLE OF MOMENTS AND REACTIONS
INTERIOR BEAMS**

	Moments (K' Ft.)				Reactions (K)		
	04 Span 1	Pier 1	05 Span 2	Pier 2	Abut.	Pier 1	Pier 2
D.L.	53.5	325.0	224.0	524.0	10.8	58.6	72.5
L.L.	170.0	220.5	270.8	277.0	23.6	32.3	35.5
Imp.	51.0	60.5	74.2	76.0	7.0	9.0	8.9
Total	274.5	606.0	569.0	877.0	41.2	99.9	119.0



APRIL 14 1965
 EXAMINED: [Signature]
 PASSED: [Signature]
 APPROVED: [Signature]

**ELEVATION TOP OF WF
(For Fabrication Only)**

Beam	E Brg. W. Abut.	E Brg. Pier 1	E Brg. Pier 2	E Brg. Pier 3	E Brg. E. Abut.
10 W. Abut.	466.09	466.49	466.62	466.83	466.83
12 W. Span 1	466.09	466.49	466.62	466.83	466.83
15 W. Span 2	466.09	466.49	466.62	466.83	466.83
18 W. Span 3	466.09	466.49	466.62	466.83	466.83
21 W. Abut.	466.09	466.49	466.62	466.83	466.83

B.M. 2 Spikes in root of 24" Oak
305' Lt. Sta. 614+45 Elev. 455.52

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

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO. / TOTAL SHEETS
77-340	PULASKI	37	8	9 SHEETS
PROJECT: I-57-1(81)				

FOR INFORMATION ONLY SN 077-0034

GENERAL NOTES

Coarse aggregate to be used in parapet handrails and wingwalls must be absolutely free of chert, flint, 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 weighing 58 lbs per 100 sq. ft.

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

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

Rivets 3/4" 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.

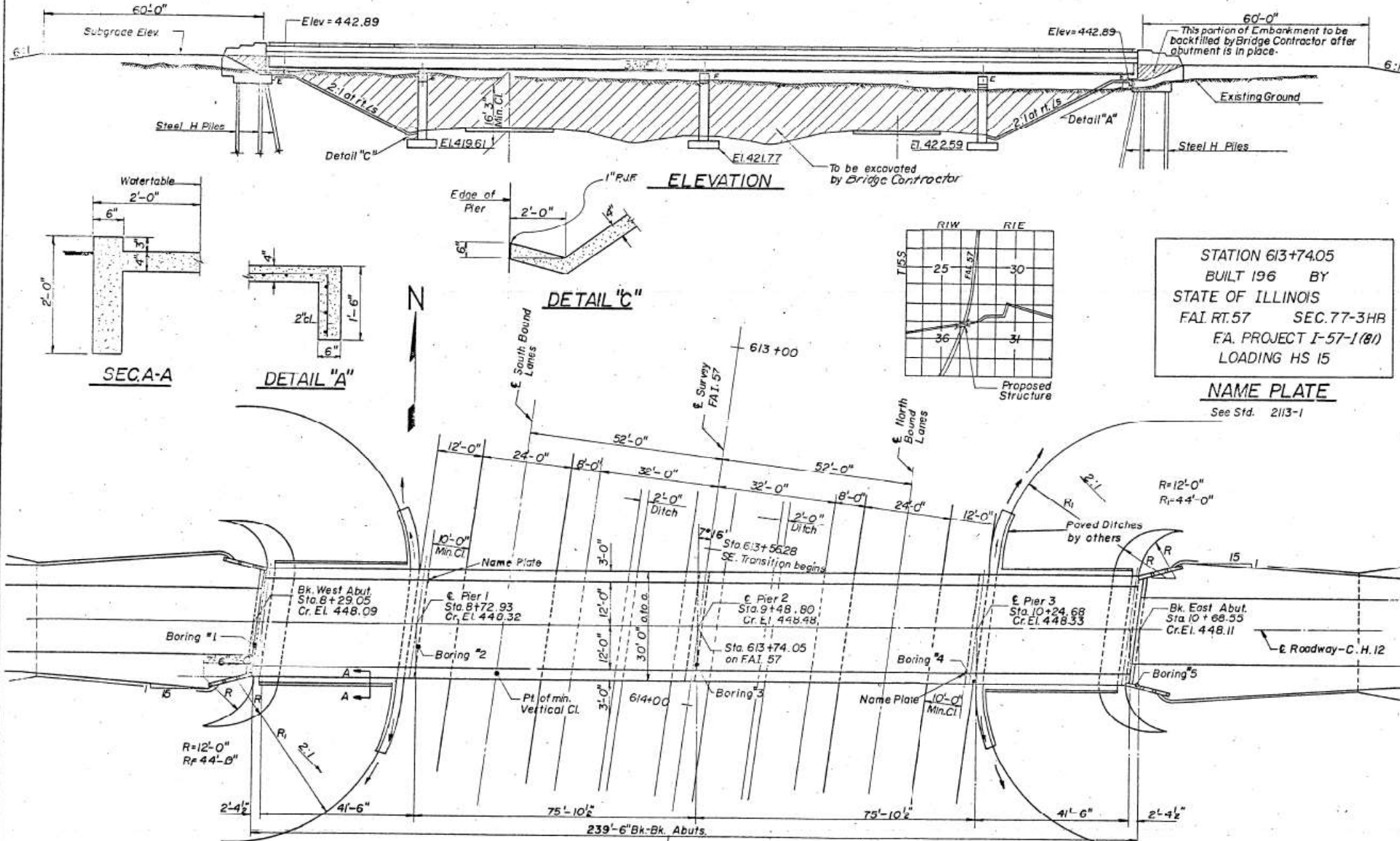
Expansion guards are included in the quantity of Structural Steel. Estimated weight - 670 Lbs.

Except as otherwise provided, all Structural Steel shall receive one shop coat of red lead paint and two field coats of aluminum paint. See Article 56.1 to 56.5 inclusive of the Standard Specifications.

The Contractor shall drive One (8BP36) Steel Test Pile in a permanent location at the East Abutment as directed by the Engineer before ordering the remainder of piles.

Permanent forms will not be permitted in forming the concrete deck. Excavation for portions of structures in the embankments shall not be classified.

STUD SHEAR CONNECTORS ON THE BEAM FLANGERS SHALL BE PLACED IN THE FIELD AFTER THE STEEL HAS BEEN ERECTED AND THE DECK FORMS ARE IN PLACE.



STRESS TABLES

TABLE of MOMENTS & REACTIONS-INTERIOR BEAMS.

	MOMENTS: Ft.-Kips.				REACTIONS: Kips.			SHEAR-Kips	
	4 Span	Pier 1	.5 Span 2	Pier 2	Abut.	Pier 1	Pier 2	4 Span 2	Span 2
D.L.	44.6	261.0	176.4	422.0	8.7	46.5	58.9	-	-
S.D.L.	16.6	62.0	64.4	97.6	2.7	12.8	16.2	3.4	-0.5
L.L.	170.0	177.0	336.0	239.0	23.4	30.7	30.0	26.0	14.5
IMR.	51.0	48.0	84.4	66.0	7.0	8.4	7.5	6.5	3.6
TOTAL	282.2	548.0	663.2	824.6	41.8	98.4	112.6	35.9	17.6

PROPERTIES: $I_x = 5886.9 \text{ in}^4$, $I_y = 8808.2 \text{ in}^4$
 $S_x = 358.3 \text{ in}^3$, $S_y = 1292.6 \text{ in}^3$
 $S_{xc} = 508.3 \text{ in}^3$

TOTAL BILL OF MATERIALS

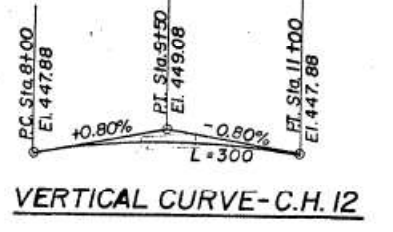
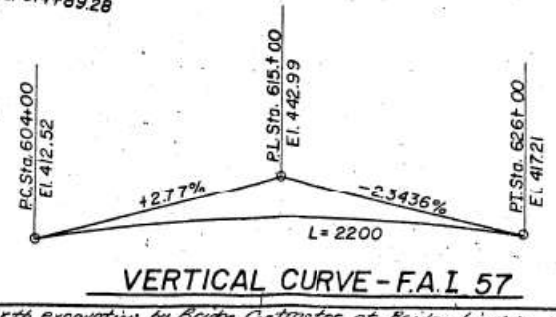
PAY ITEMS	UNIT	SUPER	SUB	TOTAL
Class A Excavation for Structures	Cu. Yds.		350	350
Class X Concrete	Cu. Yds.	215.0	202.9	417.9
Structural Steel	Lbs.	173540		173540
Aluminum Handrail	Lin. Ft.	473		473
Reinforcement Bars	Lbs.	47270	22700	69970
Steel Piles (8BP36)	Lin. Ft.		364	364
Test Piles (8BP36) Steel	Each		1	1
Name Plates	Each		2	2
Slope Wall (4")	Sq. Yds.		370	370
Protective Coat	Sq. Yds.	909		909

* Includes excavation for slopewalls.

DESIGNED	I. K. ASDR	APPROVED	[Signature]
CHECKED	[Signature]	DATE	April 28, 1966
DRAWN	Richard Ferrando		
CHECKED	[Signature]		

DESIGN STRESSES

$f_c = 1400 \text{ psi}$ (Super & Sub)
 $f_s = 20,000 \text{ psi}$ (Reint)
 $f_a = 20,000 \text{ psi}$ (Struct)
 $V_c = 75 \text{ psi}$ (Figs.)
 $n = 10$
 $\Delta = \frac{L}{1000} = \text{non-composite}$
 $1200 = \text{composite}$
 LOADING HS 15-44



GENERAL PLAN & ELEVATION
 PROJECT: I-57-1(81) //
 CH. 12 OVER FAI RT. 57
 FAI RT. 57 SEC. 77-3HR
 PULASKI COUNTY
 STATION 613+74.05

Rev. 1-6-66 Remove Pipe Culverts, Borrow Embankment. Add paved ditch @ south ends of slope walls. Add note for earth excavation by Bridge Contractor at Bridge location. ix
 Rev. 5-4-66 Changed quantity of Reinforce bars 454 lbs. to 47,410 lbs. and 67,840 to 70,110 Lbs. ix.

USER NAME = klrtbyea	DESIGNED -	REVISOR -	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 100,000' / in.	DRAWN -	REVISOR -	VAR	D9 BRIDGE PAINT 2022-1	VARIOUS	51	46
PLOT DATE = 6/24/2021	CHECKED -	REVISOR -	CONTRACT NO. 78881				
	DATE -	REVISOR -	SCALE:	SHEET	OF SHEETS	STA.	TO STA.

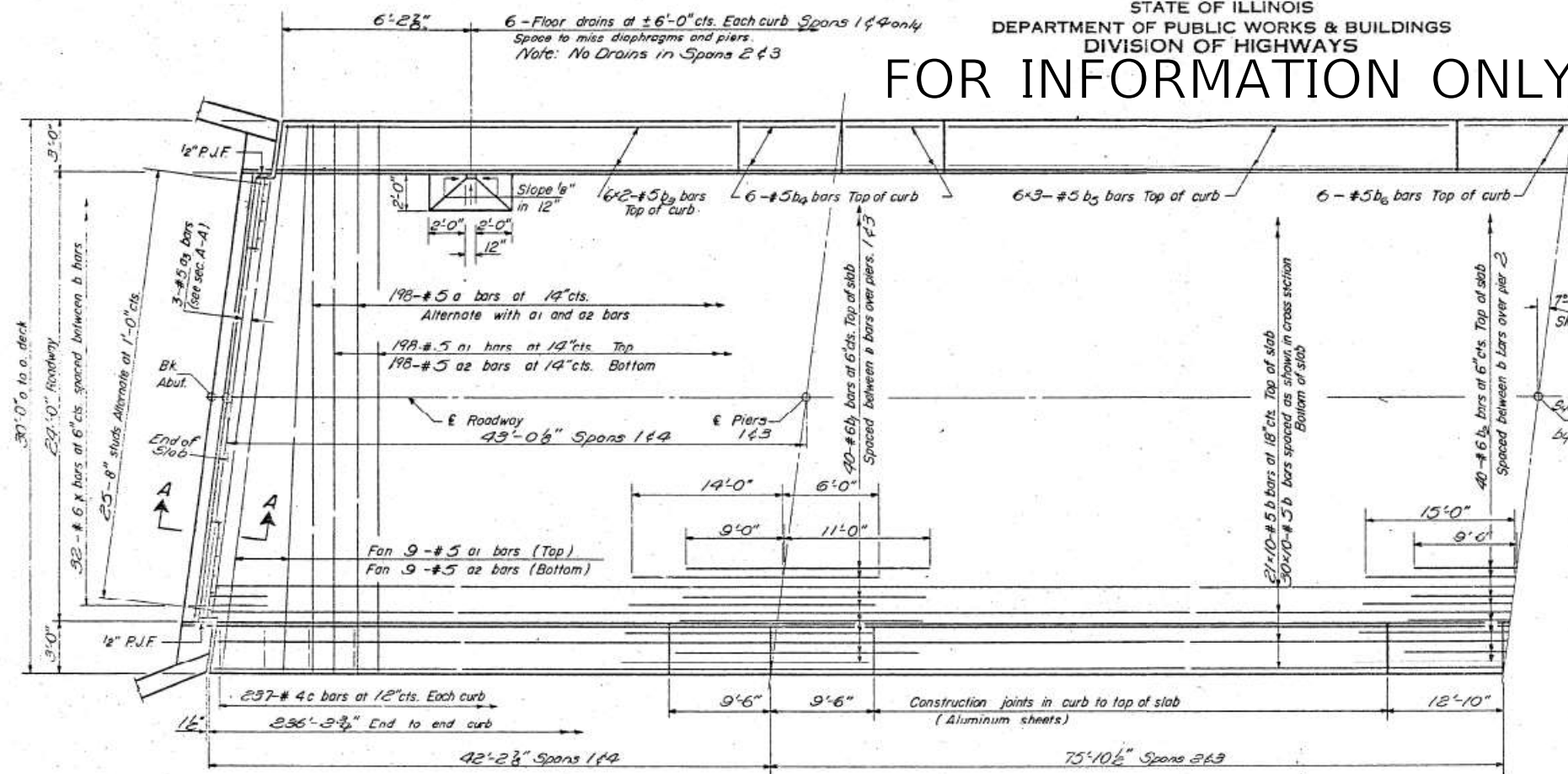
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 077-0034

ILLINOIS FED. AID PROJECT

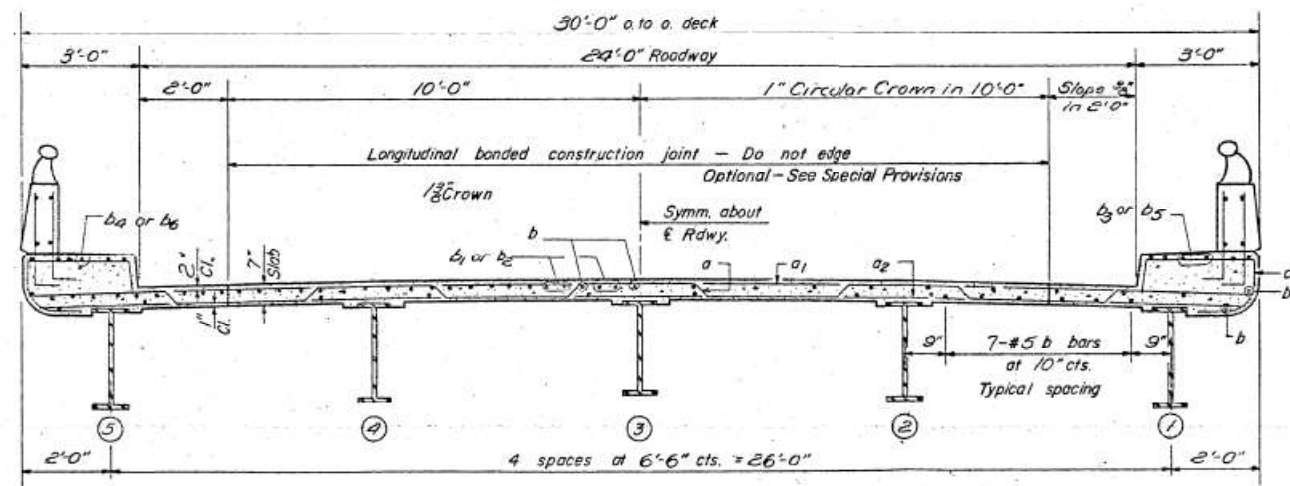
FOR INFORMATION ONLY SN 077-0034

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 2
1-18-57	77-3HB	PULASKI	37	9	9 SHEETS
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT			



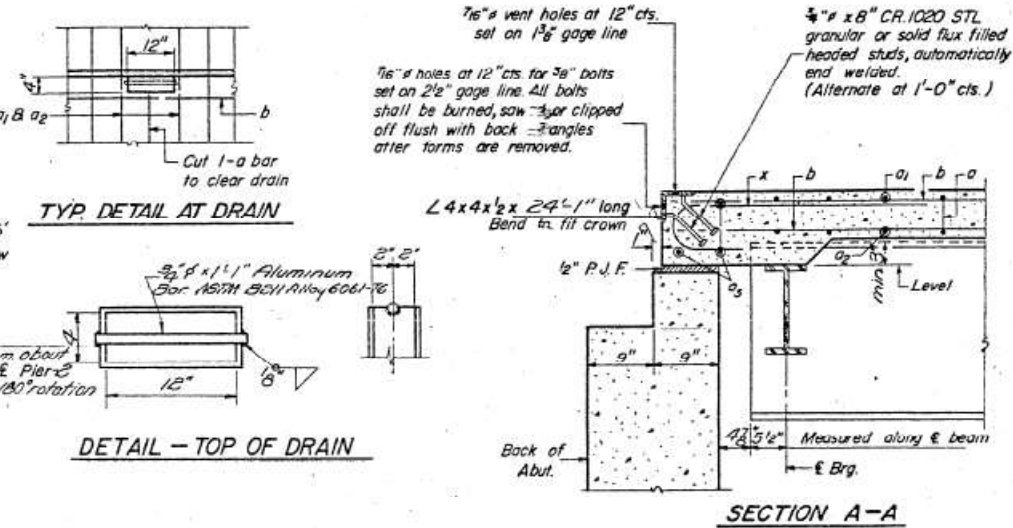
HALF PLAN

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



NEAR PIER NEAR MIDSPAN

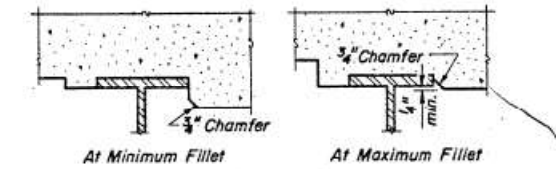
CROSS SECTION



TYP DETAIL AT DRAIN

DETAIL - TOP OF DRAIN

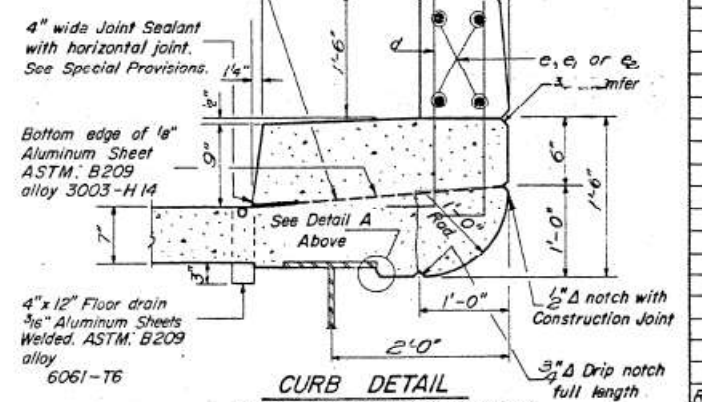
SECTION A-A



DETAIL A

BAR x

Optional Construction Joint - See Special Provisions. Not permitted with longitudinal joints.
4" wide Joint Sealant with horizontal joint. See Special Provisions.
Bottom edge of 1/8" Aluminum Sheet ASTM B209 alloy 3003-H14
4"x12" Floor drain 1/8" Aluminum Sheets Welded, ASTM B209 alloy 6061-T6

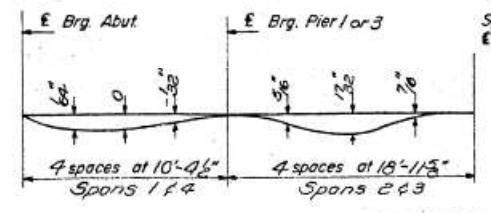


CURB DETAIL

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	198	#5	30'-2"	~
a1	216	#5	29'-6"	~
a2	216	#5	28'-9"	~
a3	6	#5	23'-10"	~
b	510	#5	25'-6"	~
b1	30	#6	20'-0"	~
b2	40	#6	24'-6"	~
b3	48	#5	17'-0"	~
b4	48	#5	9'-3"	~
b5	72	#5	16'-6"	~
b6	24	#5	12'-6"	~
c	474	#4	5'-10"	~
d	1052	#5	3'-9"	~
x	64	#6	3'-6"	~

Reinforcement Bars Lbs. 45340
Structural Steel Lbs. 173540
Class X Concrete Cu Yd. 2130
* Weight of bearing assemblies with lead plates, and anchor bolts are included as structural steel.
Est Wt = 7,005 Lbs. 205.34
** Includes Parapet Quantities See Sheet 3



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

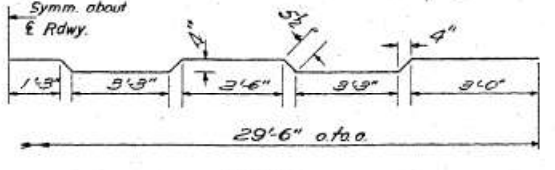
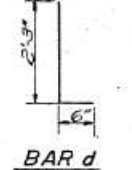
SUPERSTRUCTURE
CH12 OVER FAI 57
FAI RT. 57 SEC. 77-3HB
PULASKI COUNTY
STATION 613+74.05

STANDARD FILLET DETAIL

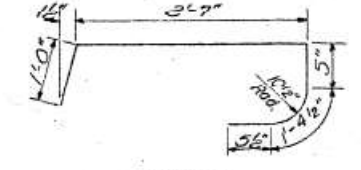
To determine "f": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown on sheet 5. These elevations subtracted from the "Grade Elevations Adjusted for Dead Load Deflections" shown on sheet 4, minus slab thickness, equals the fillet heights "f" above top of beams.

DESIGNED	I. Kuspor	EXAMINED	Ch. E. Furman
CHECKED	R. G. Barnett	PASSED	H. J. ...
DRAWN	J. K. DL Beemer	APPROVED	...
CHECKED	...		

I-5-L (≤ 15°) 10-10-62 Rev. 11-1-63 5-1-64



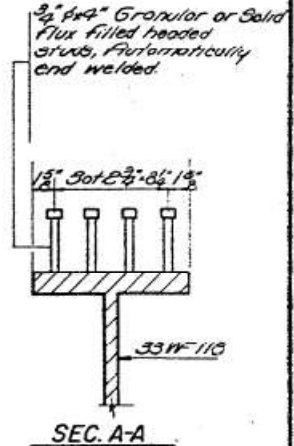
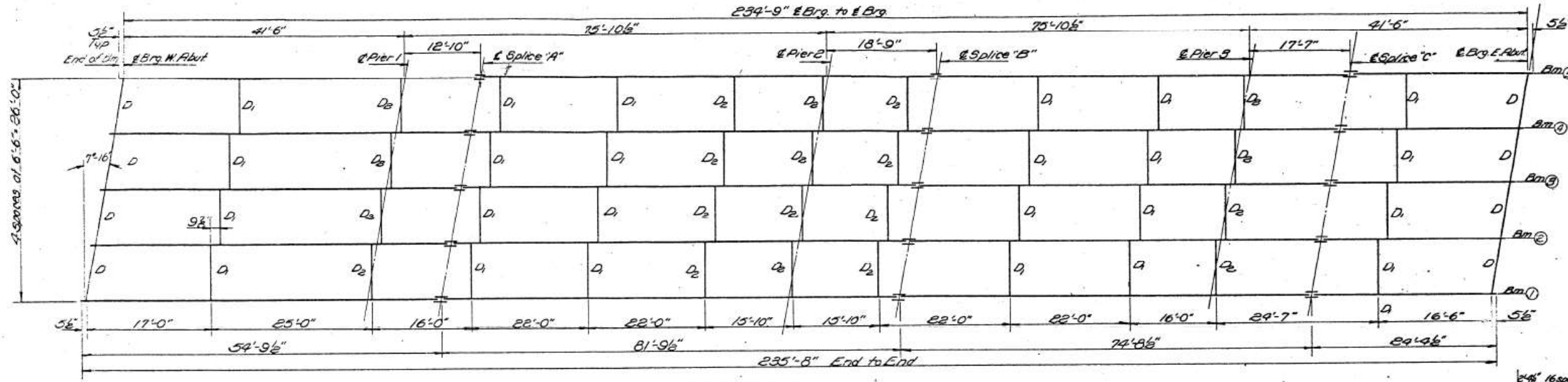
BAR a



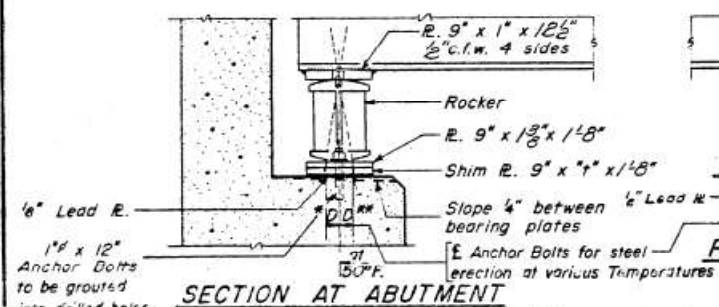
BAR c

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

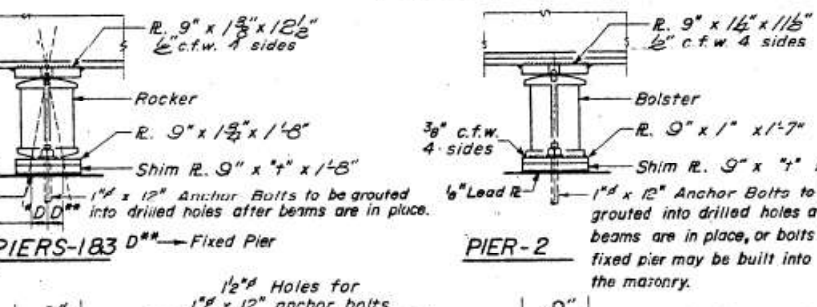
DATE	SECTION	COUNTY	NO.	SHEET	SHEET NO.
7-2-57	77-348	Pulaski	37	12	9 SHEETS



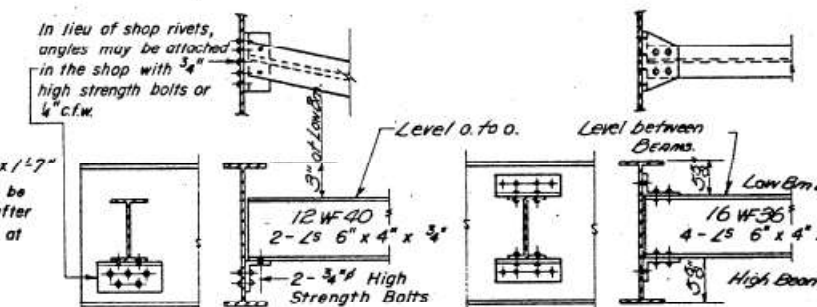
FRAMING PLAN
(Fill Beams 33WF118)



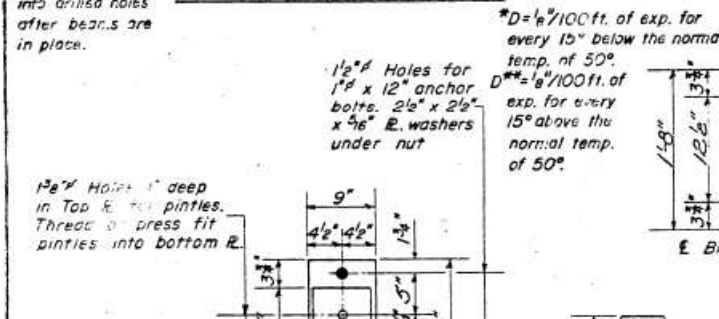
SECTION AT ABUTMENT



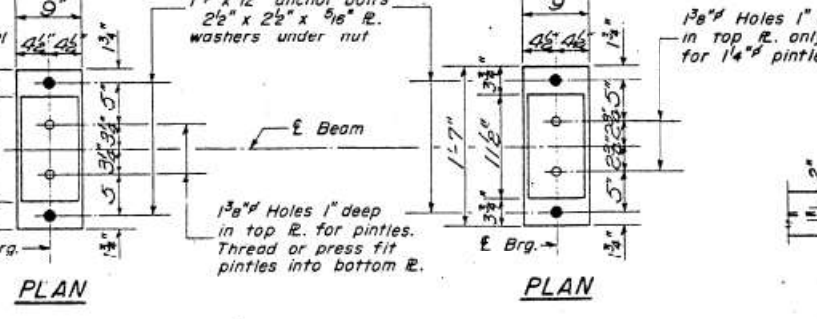
PIER-2



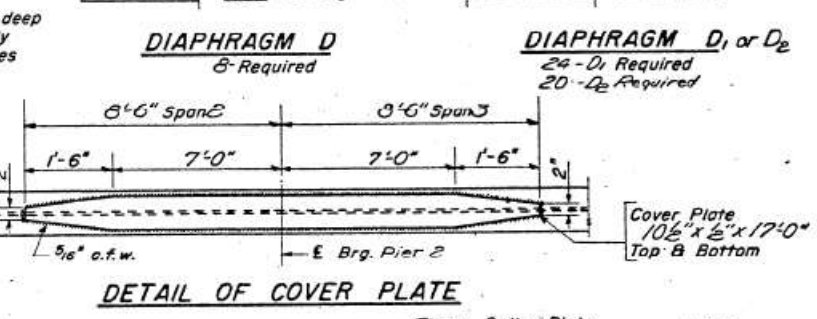
DIAPHRAGM D



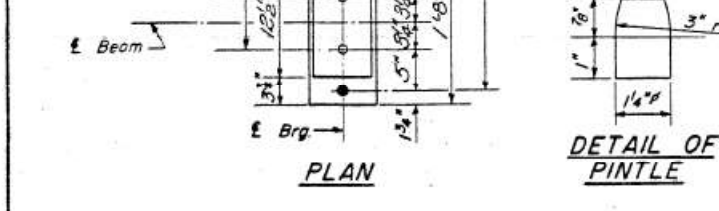
PLAN



PLAN



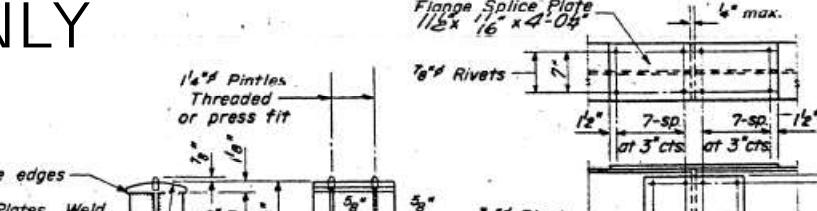
DETAIL OF COVER PLATE



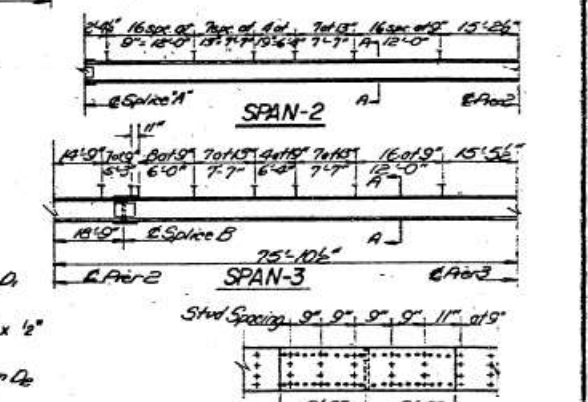
DETAIL OF PINTLE



DETAIL OF ROCKER AT PIERS 1B3 & ABUTS



DETAIL OF BOLSTER AT PIER-2



ELEVATION OF BEAMS SHOWING STUD SPACING

ELEVATION TOP OF WF

Locations	Bm1	Bm2	Bm3	Bm4	Bm5
E Brg. W. Abut	44738	44748	44752	44760	44758
E Brg. Pier 1	44750	44765	44769	44766	44756
E Splice A	44761	44771	44775	44772	44762
E Brg. Pier 2	44769	44779	44783	44780	44770
E Splice B	44771	44781	44785	44782	44772
E Brg. Pier 3	44773	44783	44787	44784	44774
E Splice C	44783	44793	44797	44794	44784
E Brg. E. Abut	44793	44798	44792	44782	44790

Location	Bm1	Bm2	Bm3	Bm4	Bm5
E Brg. W. Abut	0	0	2	2	0
E Brg. Pier 1	0	0	2	2	0
E Brg. Pier 2	0	0	2	2	0
E Brg. Pier 3	0	0	2	2	0
E Brg. E. Abut	0	0	2	2	0

STRUCTURAL STEEL
CH.12 OVER FAI RT. 57
FAI RT. 57— SEC. 77-3HB
PULASKI COUNTY
STATION 613+7405

FOR INFORMATION ONLY
SN 077-0034

DESIGNED	I. Kaspar	EXAMINED	April 29 1965
CHECKED	W. A. Sausaman Jr.	APPROVED	
DRAWN	W. A. Sausaman Jr.		

I-2-C 7-2-62 Rev. 11-9-62 Rev. 8-16-63 Rev. 12-10-63

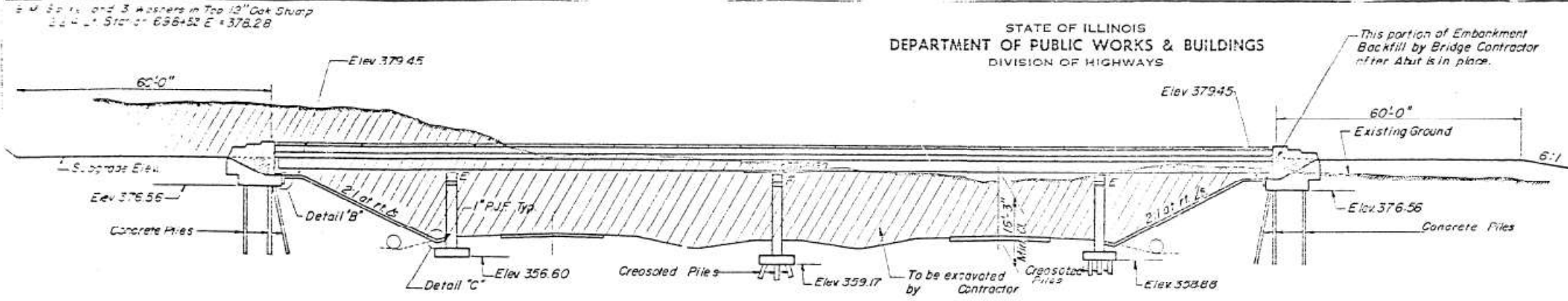
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 077-0034

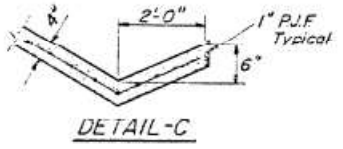
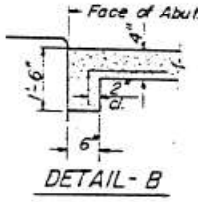
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE PAINT 2022-1	VARIOUS	51	48

SCALE: SHEET OF SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT CONTRACT NO. 78881



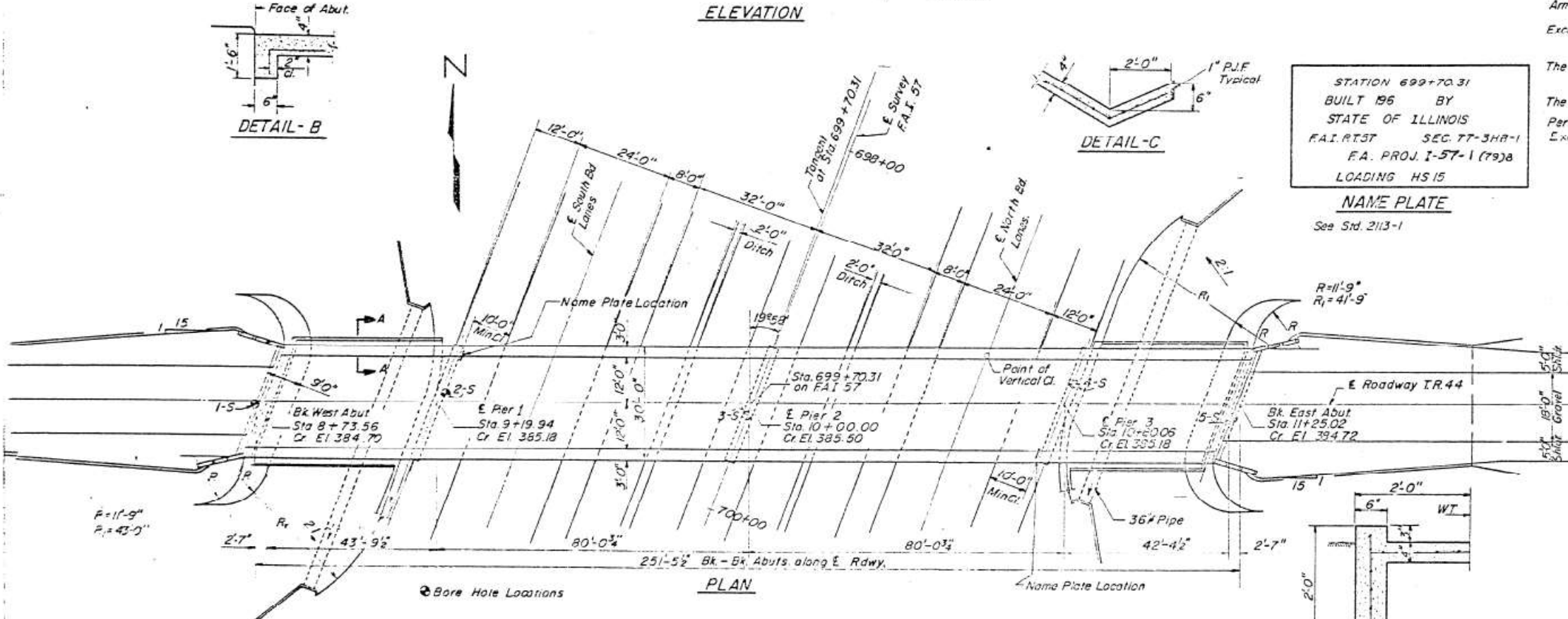
ELEVATION



STATION 699+70.31
BUILT BY
STATE OF ILLINOIS
F.A. RT. 57 SEC. 77-348-1
F.A. PROJ. I-57-1 (79)8
LOADING HS 15

NAME PLATE

See Std. 2113-1



PLAN

GENERAL NOTES

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

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

Slope walls shall be reinforced with welded wire fabric 6"x6" mesh, weighing 35# per 100 Sq. Ft.

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

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

Rivets 3/4", Open holes 1 1/2" unless otherwise noted.

Anchor bolts shall be set before riveting diaphragms over supports.

The exposed surfaces of the armor angles 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.

Armor angles are included in the quantity of Structural Steel. Estimated weight 710 Lbs.

Except as otherwise provided, all Structural Steel shall receive one shop coat of red lead paint and two field coats of aluminum paint. See Article 56.1 to 56.5 inclusive of the Standard Specifications.

The contractor shall drive one timber test pile in the vicinity of pier 2 and one concrete test pile in a permanent location at the East Abutment, as directed by the Engineer before ordering the remainder of piles.

The contractor shall use metal pile shoes in driving the timber piles.

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

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

STRESS TABLES

Table of Moments & Reactions - Interior Beams

Moments = Ft-Kips	Reactions = Kips			Shears = Kip
	Pier 1	5 Sp2	Pier 2	
D.L.	50.70	293.90	203.4	47.97
* S.D.L.	18.50	68.9	72.1	108.9
L.L.	184.50	192.0	361.0	261.0
- Imp.	55.40	52.0	87.2	70.3
Total	309.10	608.80	723.7	919.9

Properties: Spans 283 Composite
10 1/2" x 17'-6" Cover Plates at Pier 2

I_s = 6,699 in⁴ I_c = 15,974 in⁴
S_s = 404.8 in³ S_c = 1,357 in³
S_s at Pier 2 = 566.6 in³ S_c = 563.5 in³

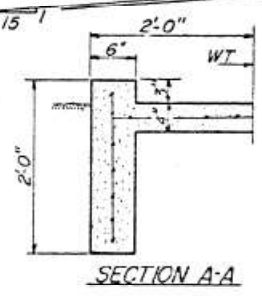
* S.D.L. = Superimposed Dead Load

STUD STRAIN CONNECTORS ON THE BEAM FLANGES SHALL BE PLACED IN THE FIELD AFTER THE STEEL HAS BEEN ERECTED AND THE DECK FORMS ARE IN PLACE.

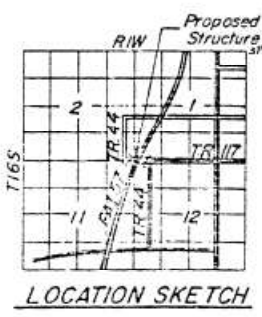
TOTAL BILL OF MATERIALS

Item	Unit	Super.	Sub.	Total
Class 2 Excavation for Structures	Cu Yds.		280	280
Class 1 Concrete	Cu Yds.	237.5	227.7	465.2
Structural Steel	Lbs.	196,360		196,360
Aluminum Handrail	Lin. Ft.	496		496
Pile Culverts Type 2A	36" Lin. Ft.		192	192
Reinforcement Bars	Lbs.	49,250	21,300	70,550
Creosoted Piles	Lin. Ft.		836	836
Test Piles (Timber)	Each		1	1
Concrete Piles	Lin. Ft.		612	612
Test Piles (Concrete)	Each		1	1
Metal Shoes	Each		44	44
Name Plates	Each		2	2
Slope Wall	Sq. Yds.		380	380
Protective Coat	Sq. Yds.	962		962

* Includes Excavation for Slope walls.



SECTION A-A



LOCATION SKETCH

HP12 CURVE DATA - FA 157

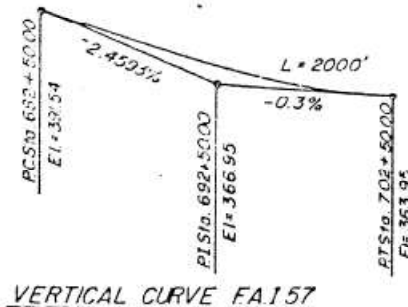
L = 157.54 T = 1197.54
S = 2.50 E = 2353.33
R = 22,563.33 E = 3.25

DESIGN STRESSES

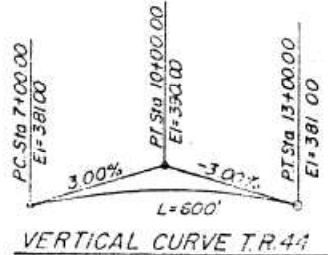
f_c = 145 psi (Super & Sub)
f_s = 20,000 psi (Reinf.)
f_s = 24,000 psi (Struct.)
v_c = 75 psi (Figs.)
n = 10

4 A L Composite
4 A L Non-Composite
10/20

LOADING HS15-44



VERTICAL CURVE FA 157



VERTICAL CURVE T.R. 44

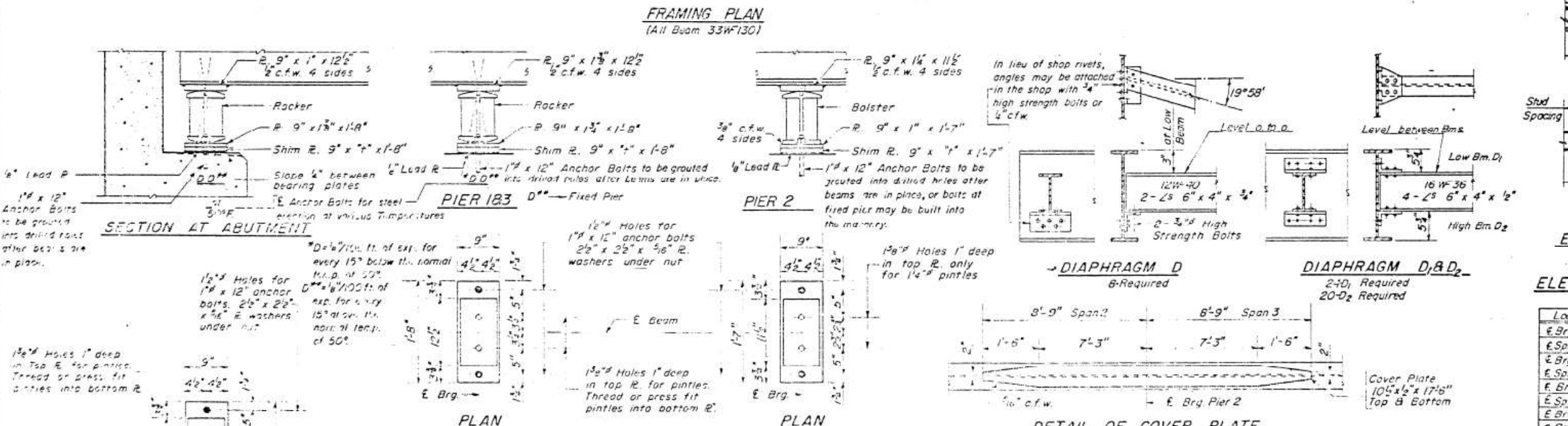
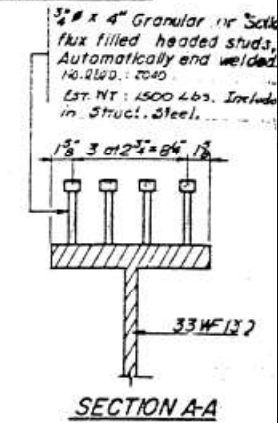
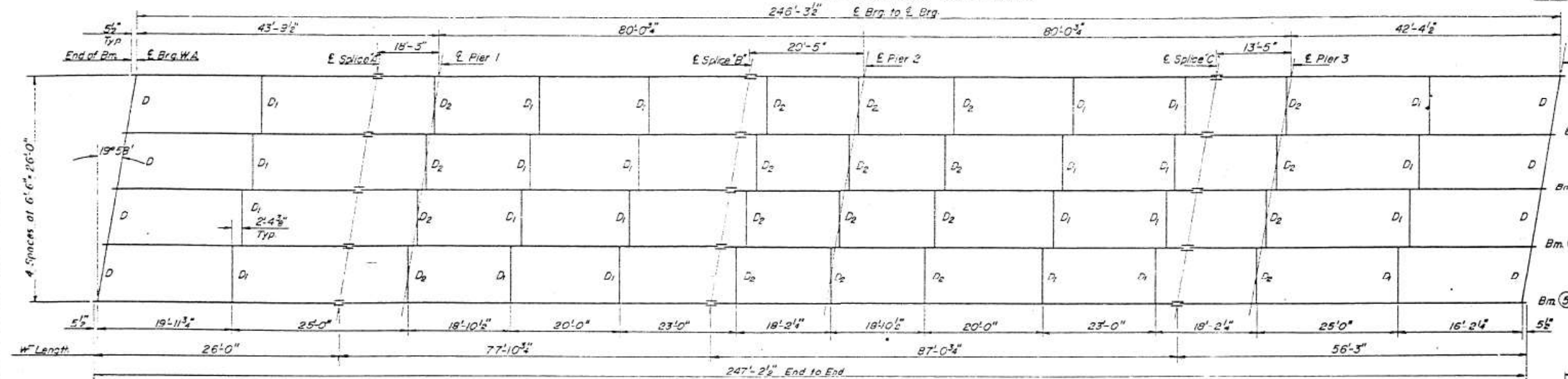
DESIGNED BY: [Signature]
DRAWN BY: [Signature]
CHECKED BY: [Signature]
DATE: 6/24/2021

FOR INFORMATION ONLY
SN 077-0031

GENERAL PLAN & ELEVATION
T.R. 44 over FA 157
F.A. RT. 57 SEC. 77-348-1
PULASKI COUNTY
STATION 699+70.31
F.A. PROJECT I-57-1 (79)8

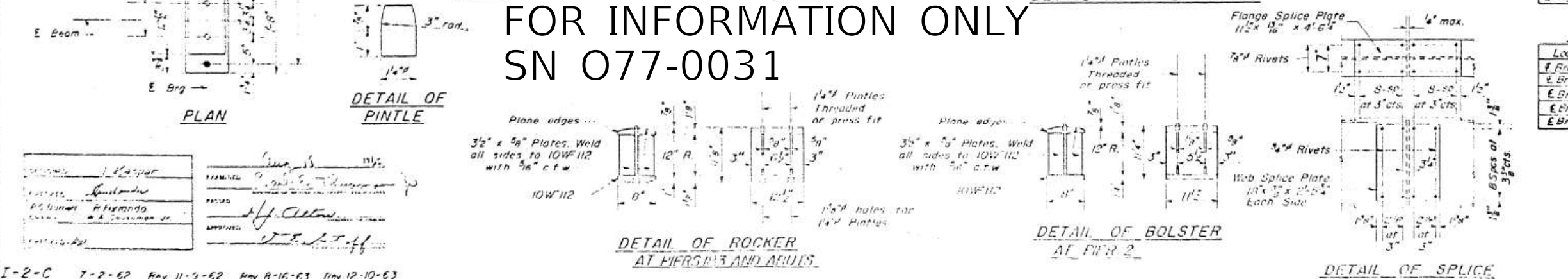
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

DATE	7/13/57	COUNTY	PULASKI	TOTAL SHEETS	138	SHEET NO.	29	SHEET TOTAL	12 SHEETS
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Locations	Bm 1	Bm 2	Bm 3	Bm 4	Bm 5
E. Brg. W. Abut.	383.96	384.08	384.15	384.09	383.9
E. Splice A	384.00	384.32	384.59	384.32	384.26
E. Brg. Pier 1	384.31	384.43	384.5	384.43	384.31
E. Splice B	384.06	384.78	384.28	384.78	384.66
E. Brg. Pier 2	384.61	384.73	384.5	384.73	384.61
E. Splice C	384.46	384.58	384.65	384.58	384.46
E. Brg. Pier 3	384.34	384.46	384.53	384.46	384.34
E. Brg. E. Abut.	383.96	384.08	384.15	384.08	383.96

Locations	Bm 1	Bm 2	Bm 3	Bm 4	Bm 5
E. Brg. W. Abut.	0	0	0	0	0
E. Brg. Pier 1	0	0	0	0	0
E. Brg. Pier 2	0	0	0	0	0
E. Brg. Pier 3	0	0	0	0	0
E. Brg. E. Abut.	0	0	0	0	0



STRUCTURAL STEEL
TR-44 OVER FAI 57
FAI RT 57 SEC. 77-3HS-1
PULASKI COUNTY
STATION 699+70.3

DESIGNED: [Signature]
DRAWN: [Signature]
CHECKED: [Signature]
DATE: 7-2-57

FOR INFORMATION ONLY
SN 077-0031

I-2-C 7-2-57 Rev 11-9-52 Rev 8-15-53 Rev 12-10-53