

FOR INDEX OF SHEETS AND LIST OF
HIGHWAY STANDARDS, SEE SHEET NO. 2

04-22-2016 LETTING ITEM 019

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAS 1198 (US 30)
S.N. 098-0034 OVER ROCK RIVER
SECTION (110BR)M
BRIDGE REHABILITATION
WHITESIDE COUNTY

C-92-025-16

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1198	(110BR)M	WHITESIDE	34	1
ILLINOIS			CONTRACT NO. 64L09	

D-92-022-16



FUNCTIONAL CLASSIFICATION
MAJOR COLLECTOR
AADT = 5200
P.V. = 87% EST. TRUCK 13%
HOPKINS TOWNSHIP
SECTION 30

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SUBMITTED Jan. 29th 2016
Paul E. [Signature]
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
March 10, 2016
Muhammad M. Addis, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT
March 10, 2016
Omar Osman, P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS



Signed Joseph M. Glennon
Joseph Glennon, P.E.
Il. Lic. No. 062-046610
Expires 11-30-2017

Date 1-22-2016



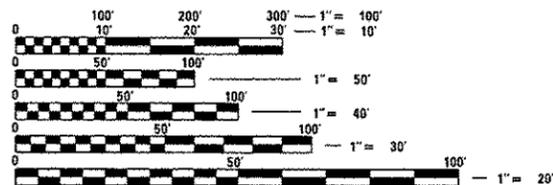
Signed Moussa A. Issa
Dr. Moussa A. Issa, S.E.
Il. Lic. No. 081-005738
Expires 11-30-2016

Date 01/22/2016

UTILITY NOTE
THE LOCATIONS OF THOSE BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE, ARE SHOWN FOR CONTRACTOR INFORMATIONAL USE ONLY, AND ARE NOT TO BE REFERENCED FOR CONSTRUCTION PURPOSES. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVEGROUND UTILITY LOCATION, IDENTIFICATION, AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR, REROUTING, DISCONNECTION, PROTECTION, ETC. OF AN UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS ASSOCIATED WITH BURIED AND ABOVEGROUND UTILITIES, REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.



Know what's below.
Call before you dig.



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

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

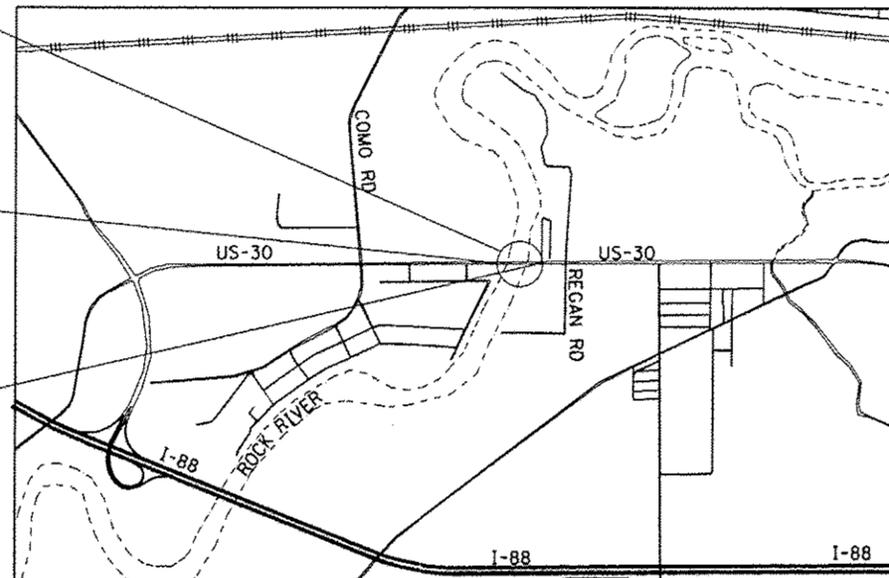
PROJECT MANAGER: MAHMOUD ETEMADI, P.E. (815) 284-5393
DESIGN PROJECT MANAGER: MOUSSA ISSA (708) 236-0900

CONTRACT NO. 64L09

PROJECT LOCATION
US 30 OVER ROCK RIVER
STRUCTURE NO. 089-0034
LENGTH = 1136'-7"
BRIDGE REHABILITATION

IMPROVEMENT BEGINS
STA. 148 + 66.71

IMPROVEMENT END
STA. 160 + 93.29



HOPKINS TOWNSHIP
LOCATION MAP
NOT TO SCALE

GROSS LENGTH = 1226.58 FT. = 0.23 MILE
NET LENGTH = 1266.58 FT. = 0.23 MILE

PREPARED BY



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INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES, UTILITY NOTES
3	SUMMARY OF QUANTITIES
4	SCHEDULE OF QUANTITIES
5	BRIDGE APPROACH PAVEMENT RESURFACING PLAN AND SECTIONS
6	TRAFFIC CONTROL PLAN - DETOUR
7-29	BRIDGE PLANS
30	D2 STANDARD 40.1 TYPICAL APPLICATION FOR ROAD CLOSURE
31-33	D2 STANDARD 41.1 TYPICAL PAVEMENT MARKINGS
34	D2 STANDARD 43.4 REQUIRED COLD MILLED SURFACE TEXTURE

HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
482011-03	HMA SHOULDER STRIPS/SHOULDERS WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
630001-10	STEEL PLATE BEAM GUARDRAIL
630201-06	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
631031-14	TRAFFIC BARRIER TERMINAL, TYPE 6
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
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701901-05	TRAFFIC CONTROL DEVICES
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

3. BITUMINOUS AND AGGREGATE PRIME COAT SHALL BE PLACED IN ACCORDANCE WITH SECTION 406 OF THE STANDARD SPECIFICATIONS. THE COST OF THE PRIME COATS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER TON FOR LEVELING BINDER (MACHINE METHOD) OF THE TYPE SPECIFIED.

4. TIE BARS SHALL BE INSTALLED TO TIE PCC APPURTENANCE TO ADJACENT EXISTING CONCRETE PAVEMENT.

TIE THE FOLLOWING TO THE EXISTING CONCRETE PAVEMENT LENGTH, SIZE, AND SPACING OF TIE BARS

GUTTER OR CURB & GUTTER STD. 606001 24" LONG NO. 6 @ 24" CENTERS

PCC BASE COURSE STD. 353001 24" LONG NO. 6 @ 30" CENTERS

PCC PAVEMENT STD. 420101 24" LONG NO. 6 @ 30" CENTERS

TIE BARS TO BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF ARTICLE 420.05(B) OF THE STANDARD SPECIFICATIONS. SEE HIGHWAY STANDARD 420001 FOR DETAIL ON LONGITUDINAL CONSTRUCTION JOINT GROUTED-IN-PLACE TIE BAR. THE COST OF THE TIE BARS TO BE INCLUDED IN THE COST OF THE PCC APPURTENANCE ADJACENT TO THE EXISTING PAVEMENT.

5. REFLECTOR MARKERS TYPE B SHALL BE INSTALLED ON THE TOP OF BRIDGE PARAPET WALLS. THE MARKERS SHALL BE ACCORDING TO STANDARD 635011 AND THE COLOR AND SPACING ACCORDING TO STANDARD 635006, EXCEPT THE MINIMUM IS 2 PER SIDE.

6. PAVEMENT MARKING SHALL BE DONE ACCORDING TO STANDARD 780001, EXCEPT AS FOLLOWS:

- ALL WORDS, SUCH AS ONLY, SHALL BE 8 FEET HIGH.
- ALL NON-FREEWAY ARROWS SHALL BE THE LARGE SIZE.
- THE DISTANCE BETWEEN YELLOW NO-PASSING LINES SHALL BE 8 INCHES, NOT 7 INCHES, AS SHOWN IN THE DETAIL OF TYPICAL LANE AND EDGE LINES.
- CENTERLINE SKIP DASH PAVEMENT MARKING ON MULTI-LANE DIVIDED, MULTI-LANE UNDIVIDED, AND ONE-WAY ROADWAY SHALL BE ACCORDING TO DISTRICT STANDARD 41.1.

UTILITY NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. A MINIMUM OF 48 HOURS NOTICE IS REQUIRED FOR NON-EMERGENCY WORK.

2. MEMBER OF JULIE KNOWN TO BE WITHIN OR IMMEDIATELY ADJACENT TO THE LIMITS OF IMPROVEMENT ARE:

ELECTRIC:
COMMONWEALTH EDISON COMPANY
ATTN: DAVE SCHACHT 630-437-2129
123 ENERGY AVENUE
ROCKFORD, IL 61109

TELEPHONE:
VERIZON
ATTN: KALIN HINSHAW 815-895-1515
112 WEST ELM STREET
SYCAMORE, IL 60178

CABLE TELEVISION:
INSIGHT COMMUNICATIONS
ATTN: MIKE OWENS, DONNA ZIES, TOM YUCCAS
815-395-8977
4450 KISHWAUKEE STREET
ROCKFORD, IL 61109

TELEPHONE:
SBC/AMERITECH COMPANY
ATTN: STEVEN JONES 815-394-7271
2404 EISHON AVE.
ROCKFORD, IL 61108

NATURAL GAS:
NICOR GAS COMPANY
ATTN: CONNIE LANE 630-983-8676
1844 FERRY ROAD
NAPERVILLE, IL 60563

3. NONMEMBERS OF JULIE KNOWN TO BE WITHIN OR IMMEDIATELY ADJACENT TO THE LIMITS OF THE IMPROVEMENT ARE:

GOVERNMENT:
IDOT-DISTRICT 2
ATTN: KRISTIE NYDEREK 815-284-5469
819 DEPOT AVENUE
DIXON, IL 61021

4. ALL ELECTRIC LINES WILL REMAIN ENERGIZED DURING CONSTRUCTION UNLESS OTHERWISE COORDINATED WITH THE UTILITY COMPANY.

GENERAL NOTES

- IN ADDITION TO THE REQUIREMENTS OF ARTICLE 107.16, THE CONTRACTOR SHALL PROTECT THE SURFACE OF ALL BRIDGE DECKS AND BRIDGE APPROACH PAVEMENTS IN A MANNER SATISFACTORY TO THE ENGINEER BEFORE ANY EQUIPMENT IS ALLOWED TO CROSS THE STRUCTURE. PROTECTION SHALL BE PROVIDED FOR ALL EQUIPMENT, AS DEFINED IN ARTICLE 101.17, REGARDLESS IF TRACK MOUNTED OR WHEELED.
- ALL BORROW/WASTE/USE SITES MUST BE APPROVED BY THE DEPARTMENT PRIOR TO REMOVING ANY MATERIAL FROM THE PROJECT OR INITIATING ANY EARTH MOVING ACTIVITIES, INCLUDING TEMPORARY STOCKPILING OUTSIDE THE LIMITS OF CONSTRUCTION.

HOT-MIX ASPHALT MIXTURE TABLES

MIXTURE USE(S):	RESURFACING	
	SURFACE	LEVEL BINDER (MACHINE METHOD)
PG:	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0 @ N70	4.0 @ N70
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL 9.5 OR 12.5	IL 9.5
FRICITION AGGREGATE	D	
20 YEAR ESAL	3.9	3.9
MIX UNIT WEIGHT	112 LBC/SY/IN	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, HIGHWAY STANDARDS AND GENERAL NOTES
US ROUTE 30 OVER ROCK RIVER STRUCTURE NO. 098-0034

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1198	(110 BRM)	WHITESIDE	34	02
				CONTRACT NO. 64L09
ILLINOIS FED. AID PROJECT				

CONSTR. CODE
100%
STATE
BRIDGE
0014

CODE NO.	ITEM	UNIT	QUANTITY
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	28
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	59
44000153	HOT-MIX ASPHALT SURFACE REMOVAL, 1"	SQ YD	200
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	12
50102400	CONCRETE REMOVAL	CU YD	27.5
50300100	FLOOR DRAINS	EACH	148
50300255	CONCRETE SUPERSTRUCTURE	CU YD	30.0
50300260	BRIDGE DECK GROOVING	SQ YD	4617
50300300	PROTECTIVE COAT	SQ YD	45
* 50606701	CLEANING AND PAINTING STRUCTURAL STEEL, LOCATION 1	L SUM	1
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3940
50800515	BAR SPLICERS	EACH	54
52000110	PREFORMED JOINT STRIP SEAL	FOOT	86
52000212	FINGER PLATE EXPANSION JOINT, 4"	FOOT	40
52000600	FABRIC REINFORCED ELASTOMERIC TROUGH	FOOT	40
58700300	CONCRETE SEALER	SQ FT	2923
59000200	EPOXY CRACK INJECTION	FOOT	763
60600605	CONCRETE CURB, TYPE B	FOOT	64
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4

* SPECIALTY ITEMS

CONSTR. CODE
100%
STATE
BRIDGE
0014

CODE NO.	ITEM	UNIT	QUANTITY
63200310	GUARDRAIL REMOVAL	FOOT	238
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	7
67100100	MOBILIZATION	LSUM	1
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	3681
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	2
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	8
X0325748	ACRYLIC COATING	SQ YD	1568
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	100
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
Z0006012	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/4 INCHES	SQ YD	4815
* Z0007114	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES	L SUM	1
Z0010400	CLEANING BRIDGE SEATS	SQ FT	489
Z0012130	BRIDGE DECK SCARIFICATION, 3/4"	SQ YD	4815
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	425
Z0015802	PLUG EXISTING DECK DRAINS	EACH	148
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	51
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	235
Z0038117	PORTLAND CEMENT CONCRETE SURFACE REMOVAL 1"	SQ YD	178

18

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
US ROUTE 30 OVER ROCK RIVER STRUCTURE NO. 098-0034

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1198	110 BRIM	WHITESIDE	34	03
CONTRACT NO. 64L09			ILLINOIS FED. AID PROJECT	

LEVELING BINDER (MACHINE METHOD), N70				40600635		COMMENT
STATION	STATION	LENGTH FOOT	AVE WIDTH FOOT	AVE. DEPTH INCH	WEIGHT TON	
149+11.71	149+31.71	20	40	1	5.19	WEST APPROACH SLAB SEGMENT
148+66.71	149+11.71	45	30	1	8.75	WEST APPROACH ROADWAY SEGMENT
160+28.29	160+48.29	20	40	1	5.19	EAST APPROACH SLAB SEGMENT
160+48.29	160+93.29	45	30	1	8.75	EAST APPROACH ROADWAY SEGMENT
TOTAL					28.0	

MODIFIED URETHANE PAVEMENT MARKING - LINE 4"			78009004	COMMENT
STATION	STATION	LENGTH FOOT		
148+66.71	160+93.29	1227		YELLOW 30 SKIP-10 DASH
148+66.71	160+93.29	1227		SOLID WHITE-NORTH
148+66.71	160+93.29	1227		SOLID WHITE-SOUTH
TOTAL			3681	

HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70						40603340	APPROACH
STATION	STATION	LENGTH FOOT	WIDTH FOOT	THICKNESS INCH	WEIGHT TON		
148+66.71	148+81.71	15	30	1.5	4.38	WEST	
148+81.71	149+11.71	30	30	2.0	11.67	WEST	
149+11.71	149+31.71	20	40	2.5	12.96	WEST	
160+28.29	160+48.29	20	40	2.5	12.96	EAST	
160+48.29	160+78.29	30	30	2.0	11.67	EAST	
160+78.29	160+93.29	15	30	1.5	4.38	EAST	
TOTAL					59.0		

RAISED REFLECTIVE PAVEMENT MARKER		78100100
LOCATION		EACH
EAST BRIDGE APPROACH		1
WEST BRIDGE APPROACH		1
TOTAL		2

RAISED REFLECTIVE PAVEMENT MARKER REMOVAL		78300200
LOCATION		EACH
EAST BRIDGE APPROACH		1
WEST BRIDGE APPROACH		2
BRIDGE DECK		5
TOTAL		8

HOT-MIX ASPHALT SURFACE REMOVAL, 1"					44000153	COMMENT
STATION	STATION	LENGTH FOOT	WIDTH FOOT	AREA SQ-YD		
148+81.71	149+11.71	30	30	100.0	WEST SEGMENT	
160+48.29	160+78.29	30	30	100.0	EAST SEGMENT	
TOTAL					200.0	

HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH					X4401198	COMMENT
STATION	STATION	LENGTH	WIDTH FOOT	AREA SQ-YD		
148+66.71	148+81.71	15	30	50.0	WEST SEGMENT	
160+78.29	160+93.29	15	30	50.0	EAST SEGMENT	
TOTAL					100.0	

AGGREGATE WEDGE SHOULDER, TYPE B					48102100	COMMENT
STATION	STATION	LENGTH FOOT	CROSS SECT. SO-FT	AREA	WEIGHT TON	
148+66.71	149+11.71	45	1.00	3.0	3.0	NORTH WEST SEGMENT
148+66.71	149+11.71	45	1.00	3.0	3.0	SOUTH WEST SEGMENT
160+48.29	160+93.29	45	1.00	3.0	3.0	NORTH EAST SEGMENT
160+48.29	160+93.29	45	1.00	3.0	3.0	SOUTH EAST SEGMENT
TOTAL					12.0	

PORTLAND CEMENT CONCRETE SURFACE REMOVAL, 1"					Z0038117	COMMENT
STATION	STATION	LENGTH FOOT	WIDTH FOOT	AREA SQ-YD		
149+11.71	149+31.71	20	20	88.89	WEST SEGMENT	
160+28.29	160+48.29	20	20	88.89	EAST SEGMENT	
TOTAL					178	

GUARDRAIL REMOVAL			63200310	COMMENT
STATION	STATION	LENGTH FOOT		
148+76.06	149+35.46	59.40	NORTH-WEST GUARDRAIL	
148+76.06	149+35.46	59.40	SOUTH-WEST GUARDRAIL	
160+24.54	160+83.94	59.40	NORTH-EAST GUARDRAIL	
160+24.54	160+83.94	59.40	SOUTH-EAST GUARDRAIL	
TOTAL			238	

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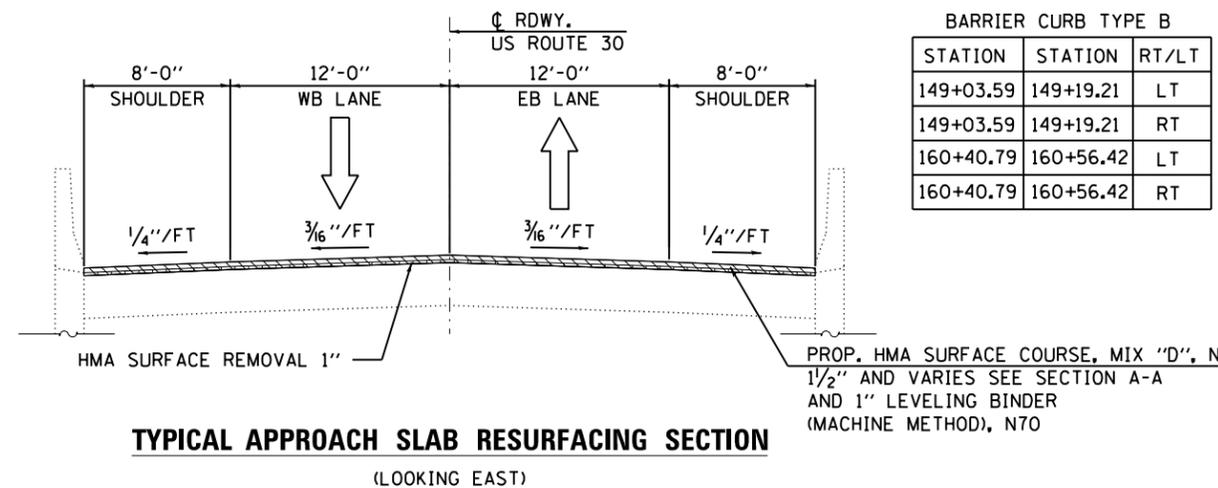
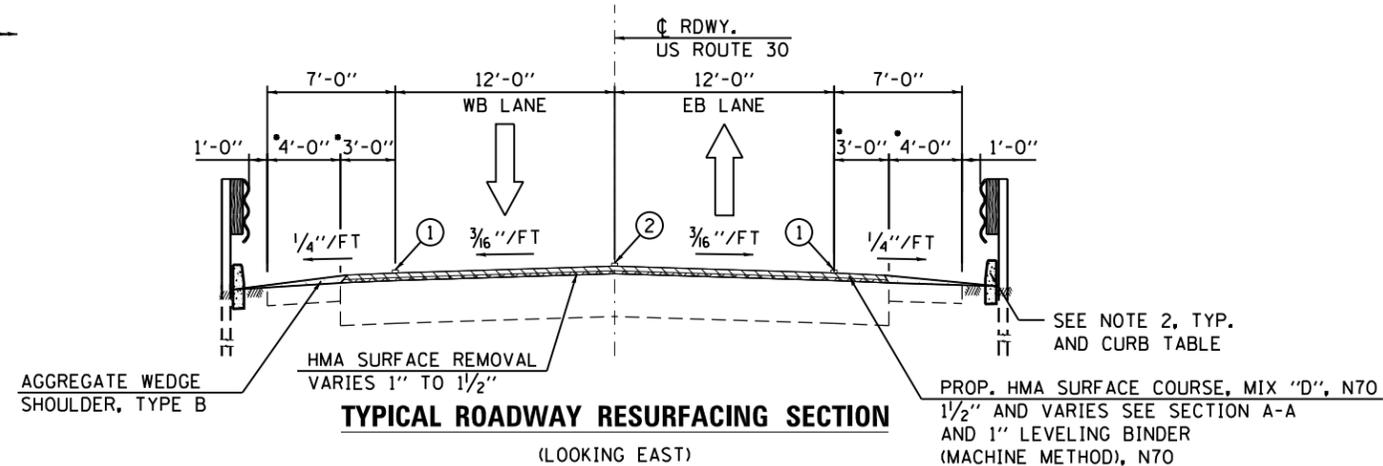
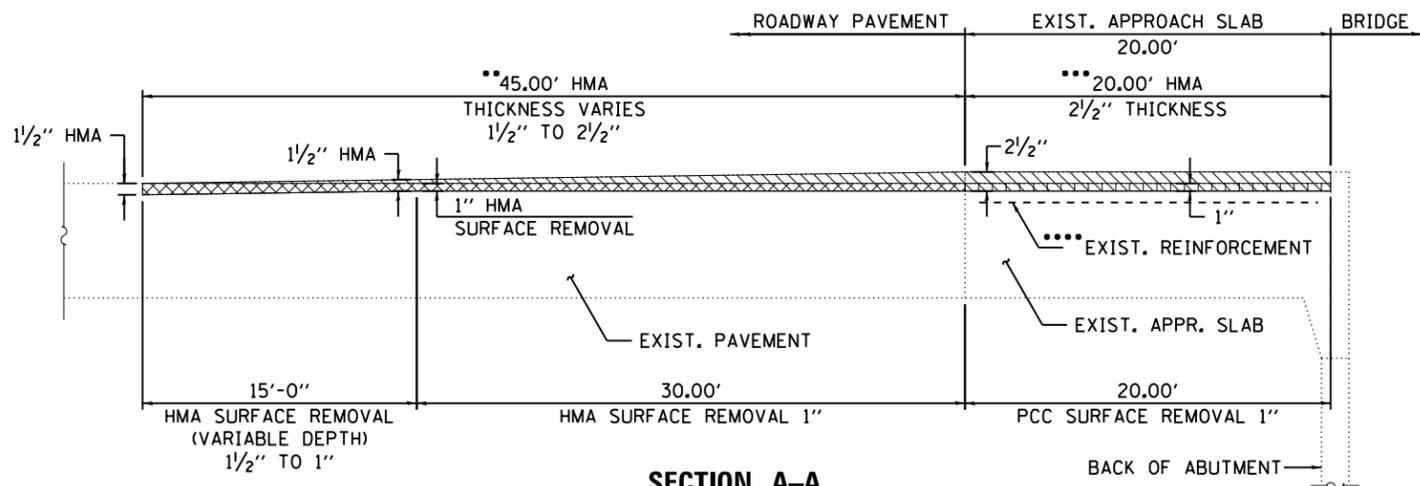
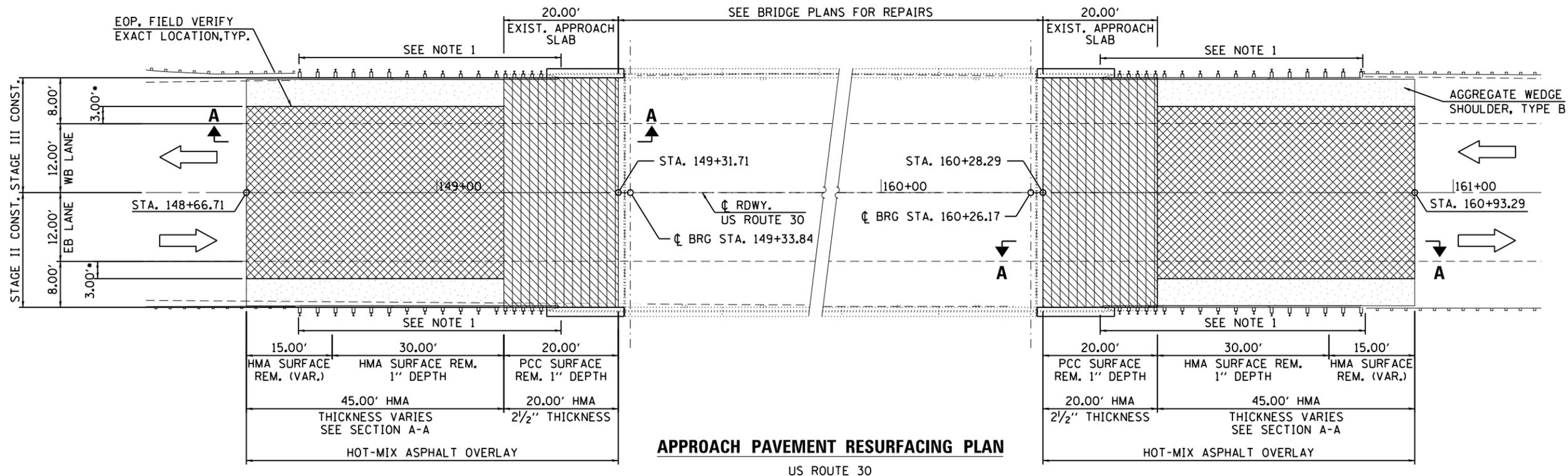


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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES			
US ROUTE 30 OVER ROCK RIVER STRUCTURE NO. 098-0034			
SCALE:	SHEET 1	OF 2 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1198	(110 BRM)	WHITESIDE	34	04
CONTRACT NO. 64L09				
ILLINOIS FED. AID PROJECT				



BARRIER CURB TYPE B

STATION	STATION	RT/LT
149+03.59	149+19.21	LT
149+03.59	149+19.21	RT
160+40.79	160+56.42	LT
160+40.79	160+56.42	RT

- LEGEND**
- AGGREGATE WEDGE SHOULDER, TYPE B
 - HMA SURFACE COURSE, MIX "D", N70
 - HMA SURFACE REMOVAL
 - PCC SURFACE REMOVAL
 - HMA SURFACE REMOVAL & HMA REPLACEMENT
 - PCC SURFACE REMOVAL & HMA REPLACEMENT
 - ① MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (WHITE)
 - ② MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (YELLOW 30' SKIP - 10' DASH)
- WIDTH VARIES NEAR BRIDGE VERIFY IN FIELD
 - HMA SURFACE COURSE, MIX "D", N70 1 1/2" AND VARIES
 - HMA SURFACE COURSE, MIX "D", N70 1 1/2" AND VARIES AND 1" LEVELING BINDER (MACHINE METHOD), N70
 - FIELD VERIFY APPROACH SLAB REINFORCEMENT COVER IN FIELD

NOTES:

1. REMOVE EXIST. G.R. AS REQ'D TO INSTALL NEW TRAFFIC BARRIER, TYPE 6.
2. PROVIDE CONCRETE BARRIER CURB, TYPE B TO BE LOCATED PER HIGHWAY STANDARD 630001 SECTION "GUARDRAIL PLACED BEHIND CURB" AND LOCATED LONGITUDINALLY PER STANDARD 631031, TRAFFIC BARRIER TERMINAL, TYPE 6. REDUCE HEIGHT OF CURB FROM 6" TO 3" BETWEEN POSTS 7 AND 8.

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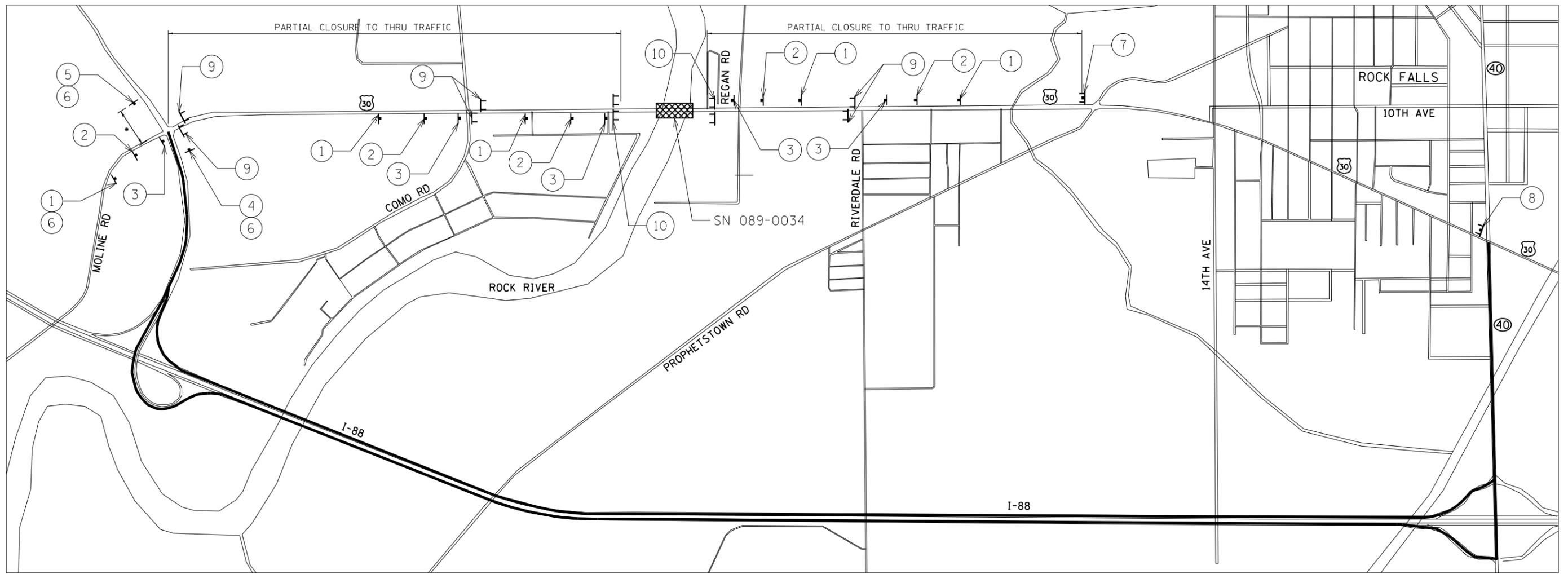
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROACH PAVEMENT PLAN AND SECTIONS
US ROUTE 30 OVER ROCK RIVER STRUCTURE NO. 098-0034

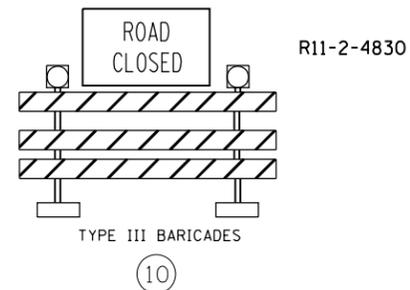
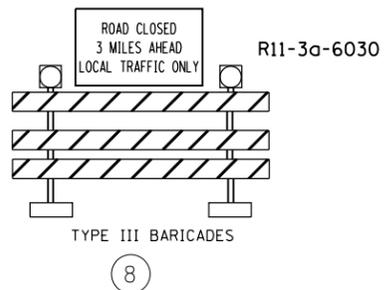
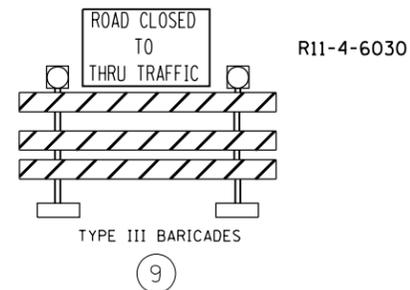
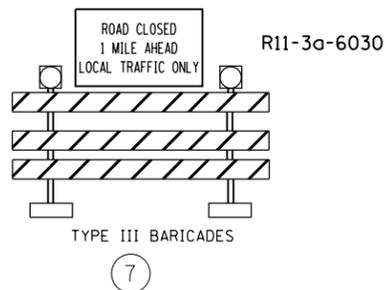
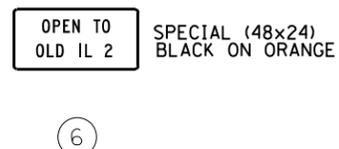
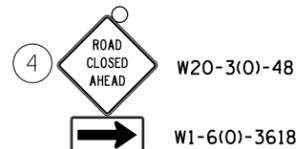
SCALE: SHEET 1 OF 1 SHEETS STA. 148+66.71 TO STA. 160+93.29

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1198	(110 BRM)	WHITESIDE	34	05
CONTRACT NO. 64L09				
ILLINOIS FED. AID PROJECT				



•SEE NOTE 2 (TYPICAL)

PLAN



NOTES

- SEE STRUCTURAL DRAWINGS FOR WORK ACTIVITIES ON BRIDGE. SEE CIVIL DRAWINGS FOR WORK ON APPROACH ROADWAY
- SEE DISTRICT 1 STANDARD 40.1 FOR SIGN SPACING & OFFSET FROM WORK ZONE OR ADJACENT ROAD AND OTHER DETAILS NOT SHOWN

LEGEND

- WORK ZONE
- SIGN
- TYPE III BARRICADE
- DETOUR ROUTE
- SIGN NUMBER

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETOUR PLAN
US ROUTE 30 OVER ROCK RIVER STRUCTURE NO. 098-0034**

SCALE: NTS SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1198	(110 BRM)	WHITESIDE	34	06
CONTRACT NO. 64L09				
ILLINOIS FED. AID PROJECT				

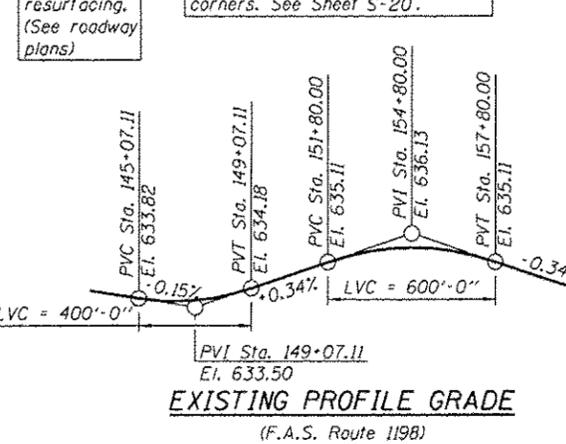
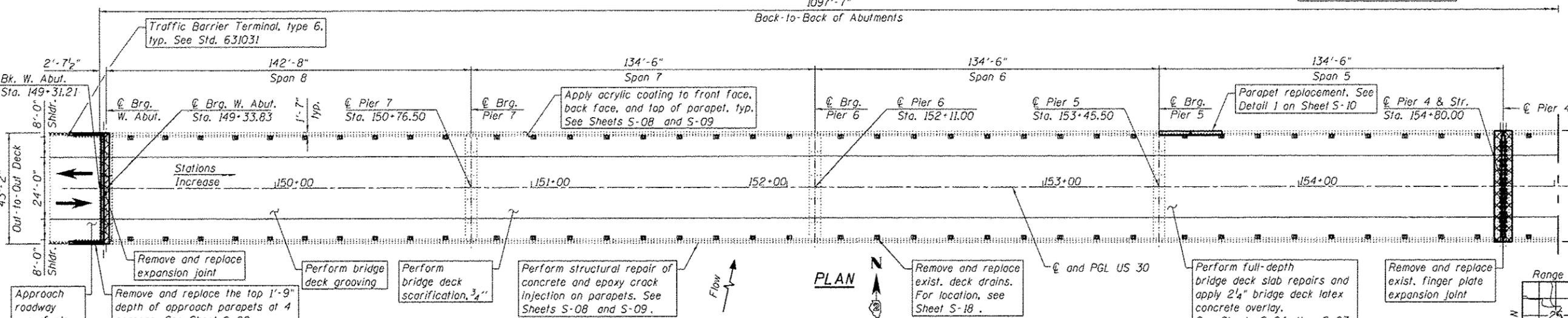
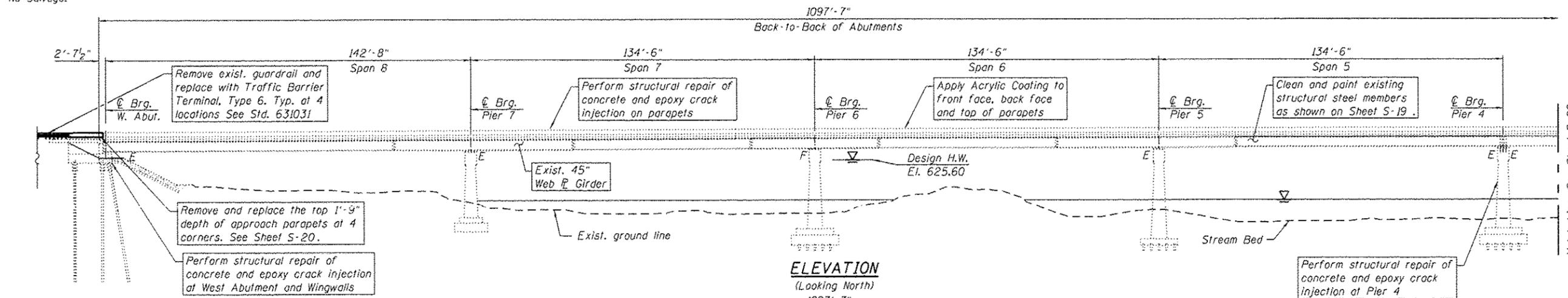
Existing Structure: S.N. 098-0034 was originally constructed in 1940 carrying one lane of eastbound and one lane of westbound US Route 30 over Rock River (F.A. Route 141/Section 110-BFP) and is 31'-7" wide 1078'-3" long. The structure consists of two 4-span continuous units symmetrical about the center pier (Pier 4) and supported by reinforced stub abutments on steel piles and wall piers on timber or steel piles. In 1989, the bridge length was increased from 1078'-3" to 1097'-7" (back-to-back-abutments), and the width was increased from 31'-7" to 43'-2". The existing 8-span steel superstructure and abutments were removed. The existing piers remained and had their pier caps extended. A new steel plate girder superstructure and new pile bent abutments were built.

The structure will be closed to vehicular traffic during construction.

No Salvage.

LEGEND

-  Concrete Removal
-  Traffic Direction



LOADING
HS20-44

REHABILITATION (1989)
Allow 25 #/sq. ft. for future wearing surface

DESIGN SPECIFICATIONS
2002 AASHTO Standard Specifications for Highway Bridges

REHABILITATION (1989)
1983 AASHTO, 1984 thru 1988 Interim Specifications

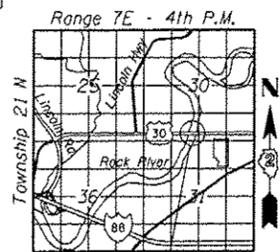
DESIGN STRESSES

FIELD UNITS
 $f'_c = 4,000$ psi (Concrete)
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (M270 Grade 50)

REHABILITATION (1989)
 $f'_c = 3,500$ psi (Concrete)
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (M270 Grade 50)
 $f_y = 36,000$ psi (M270 Grade 36)

NOTES:

1. For bridge approach pavement resurfacing and bridge approach shoulder pavement replacement and resurfacing, see Roadway Plans.
2. For guardrail removal and replacement, see Roadway Plans.



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
SPANS 5 THRU 8
US ROUTE 30 (F.A.S. ROUTE 1198)
OVER ROCK RIVER
WHITESIDE COUNTY
STATION 154+80
STRUCTURE NO. 098-0034



Signed Moussa A. Issa
Moussa A. Issa, HBM II. Lic. No. 081-005738
Expires 11-30-2016

Date 01/22/2016 For Sheets S-01 Thru S-23
(Total of S-23 Sheets)



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	DATE - 1/22/2016	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

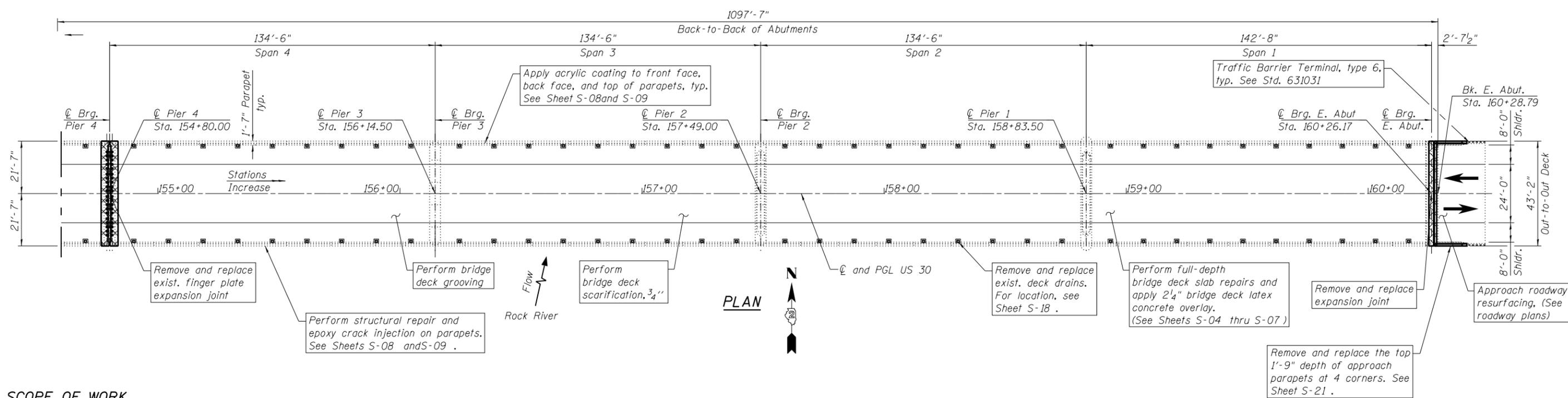
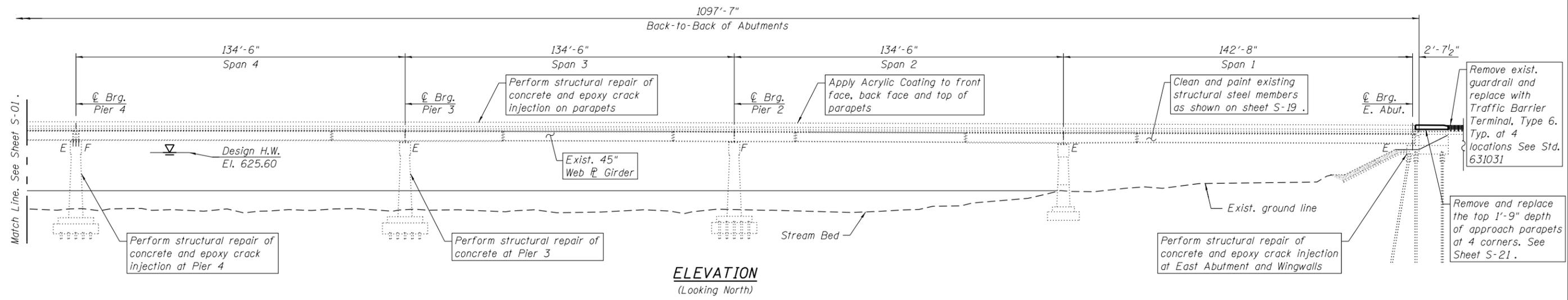
GENERAL PLAN AND ELEVATION (SPANS 5 THRU 8)
US ROUTE 30 OVER THE ROCK RIVER STRUCTURE NO. 098-0034

SHEET S-01 OF S-23 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1198	110 BRM	WHITESIDE	34	01
			CONTRACT NO. 64L09	

[ILLINOIS] FED. AID PROJECT

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SCOPE OF WORK

1. Scarify 3/4" from the bridge deck slab.
2. Perform full depth deck slab repairs.
3. Remove and replace existing deck drains.
4. Remove and replace the neoprene expansion joints at the East and West Abutments with strip seal joints. Remove and replace the finger plate expansion joint at Pier 4 in kind.
5. Perform structural repair of concrete, epoxy crack injection and/or partial replacement of the parapets as required.
6. Apply a 2 1/4" bridge deck latex concrete overlay to the bridge deck slab.
7. Perform bridge deck grooving for the 2 1/4" bridge deck latex concrete overlay and reconstructed transverse expansion joints.
8. Apply protective coat for the reconstructed parapets and reconstructed expansion joint areas.
9. Apply acrylic paint for the inside face, back face and top of existing and reconstructed parapets.
10. Clean and repaint existing outside face of fascia girders and bottom face of their bottom flanges on both sides of the bridge as required. Clean and repaint all steel elements located under the expansion joints at East and West Abutments and Pier 4.
11. Repair, clean and paint the existing bearings located under the expansion joints at the East and West Abutments and Pier 4.
12. Perform structural concrete repairs and crack sealing repairs for the abutments, wingwalls, and Piers 3 and 4.
13. Clean bridge seats and apply concrete sealant at the East and West Abutments and Pier 4.
14. Repaint pavement markings on the top of deck.

NOTES:

1. For bridge approach pavement resurfacing and bridge approach shoulder pavement replacement and resurfacing, see Roadway Plans.
2. For guardrail removal and replacement, see Roadway Plans.

LEGEND

- Concrete Removal
- Traffic Direction

**GENERAL PLAN AND ELEVATION
SPANS 1 THRU 4
US ROUTE 30 (F.A.S. ROUTE 1198)
OVER ROCK RIVER
WHITESIDE COUNTY
STATION 154+80
STRUCTURE NO. 098-0034**



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION (SPANS 1 THRU 4)
US ROUTE 30 OVER THE ROCK RIVER STRUCTURE NO. 098-0034**

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1198	(110 BRM)	WHITESIDE	34	08
			CONTRACT NO. 64L09	

SHEET S-02 OF S-23 SHEETS

ILLINOIS FED. AID PROJECT

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GENERAL NOTES

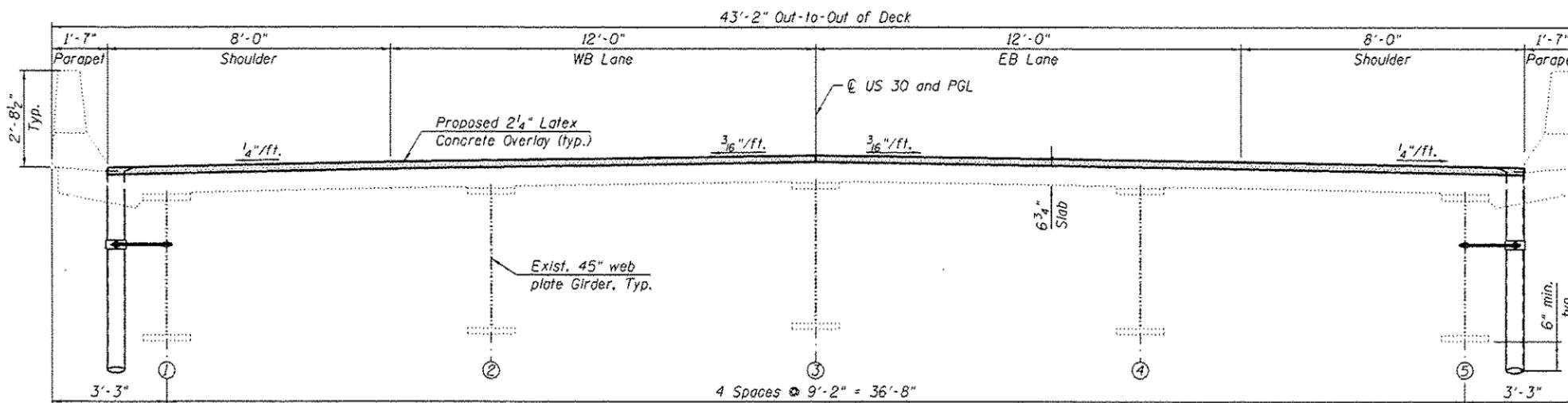
- Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations 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.
- Reinforcement bars designated (E) shall be epoxy coated.
- All exposed concrete edges shall have a 3/4" x 45° chamfer, except where shown otherwise.
- Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by method that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.
- Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.
- Areas of deck repairs shown are estimated. The Engineer shall show actual locations of deck repairs on As-built Plans.
- Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50 °F.
- The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat shall be interstate green, Munsell No. 7.5G 4/8.

INDEX OF SHEETS

- S-01 General Plan and Elevation (Spans 5 thru 8)
- S-02 General Plan and Elevation (Spans 1 thru 4)
- S-03 General Notes, Index of Sheets and Total Bill of Material
- S-04 Bridge Deck Repair Plan (Spans 1 and 2)
- S-05 Bridge Deck Repair Plan (Spans 3 and 4)
- S-06 Bridge Deck Repair Plan (Spans 5 and 6)
- S-07 Bridge Deck Repair Plan (Spans 7 and 8)
- S-08 North Parapet Repair Elevation
- S-09 South Parapet Repair Elevation
- S-10 Parapet Repair Sections and Details
- S-11 West Abutment Joint Removal and Replacement
- S-12 East Abutment Joint Removal and Replacement
- S-13 Preformed Joint Strip Seal
- S-14 Pier 4 Finger plate Joint Concrete Removal and Replacement
- S-15 Pier 4 Finger Plate Joint Plan and Elevation
- S-16 Pier 4 Finger Plate Joint Sections and Details(Sheet 1 of 2)
- S-17 Pier 4 Finger Plate Joint Sections and Details(Sheet 2 of 2)
- S-18 Drainage Plan and Details
- S-19 Framing Plan and Painting Details
- S-20 West Abutment and Wingwalls Repair
- S-21 East Abutment and Wingwalls Repair
- S-22 Pier 4 Repairs
- S-23 Pier 3 Repairs

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.	27.5	-	27.5
Floor Drains	Each	148	-	148
Concrete Superstructure	Cu. Yd.	30	-	30
Bridge Deck Grooving	Sq. Yd.	4617	-	4617
Protective Coat	Sq. Yd.	45	-	45
Cleaning and Painting Structural Steel, Location 1	L Sum	1	-	1
Reinforcement Bars, Epoxy Coated	Pound	3,940	-	3,940
Preformed Joint Strip Seal	Foot	86	-	86
Finger Plate Expansion Joint, 4"	Foot	40	-	40
Fabric Reinforced Elastomeric Trough	Foot	40	-	40
Concrete Sealer	Sq. Ft.	-	2923	2923
Epoxy Crack Injection	Foot	611	152	763
Acrylic Coating	Sq. Yd.	1,568	-	1,568
Bridge Deck Latex Concrete Overlay, 2 1/4 Inches	Sq. Yd.	4815	-	4815
Containment and Disposal of Non-Lead Paint Cleaning Residues	L Sum	1	-	1
Cleaning Bridge Seats	Sq. Ft.	-	489	489
Bridge Deck Scarification, 3/4"	Sq. Yd.	4815	-	4815
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	322	103	425
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	51	-	51
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	235	-	235



FINAL CROSS SECTION
(Looking East)

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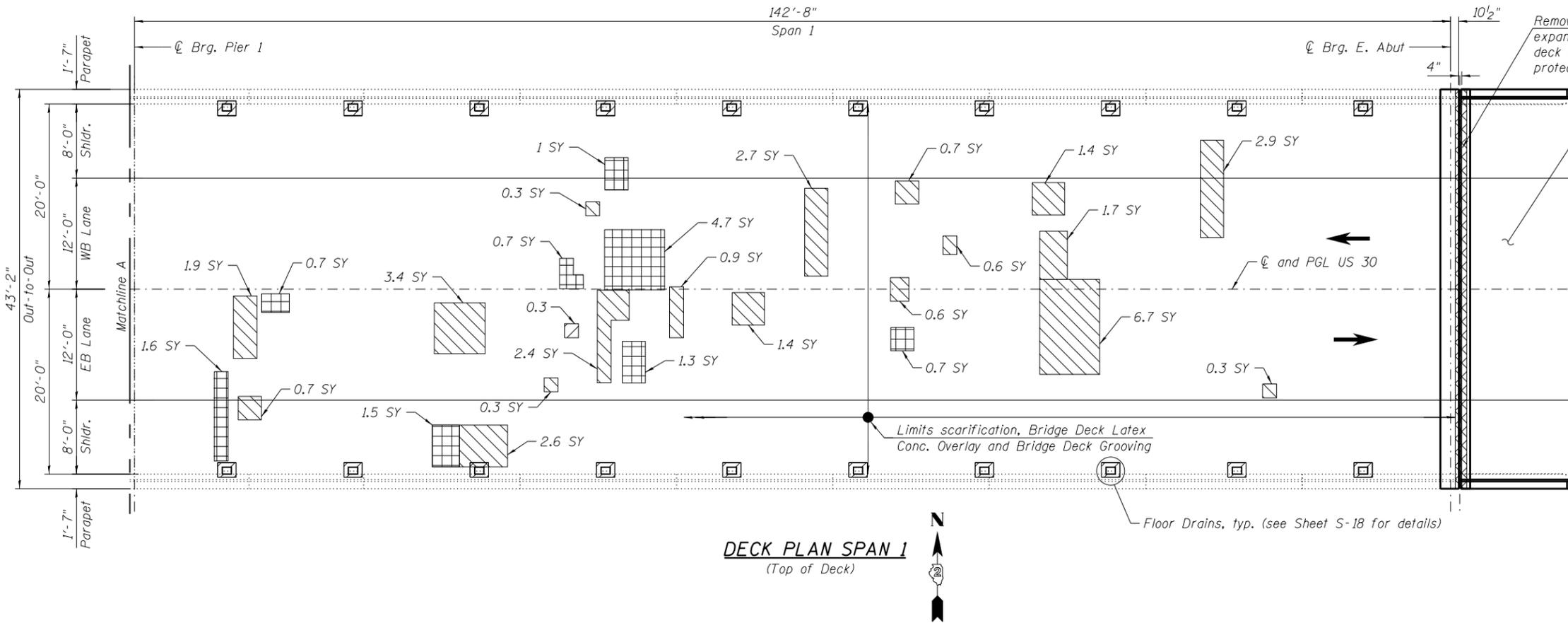


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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, INDEX OF SHEETS AND TOTAL BILL OF MATERIAL
US ROUTE 30 OVER THE ROCK RIVER STRUCTURE NO. 098-0034

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1198	1110 BRIM	WHITESIDE	34	09
CONTRACT NO. 64L09				
ILLINOIS FED. AID PROJECT				



Remove and replace transverse expansion joint, perform bridge deck grooving, and apply protective coat

PCC surface removal 1" of existing approach and apply 2 1/2" of Hot-mix asphalt. See Roadway plans for details and quantities. (Typ. at both approaches)

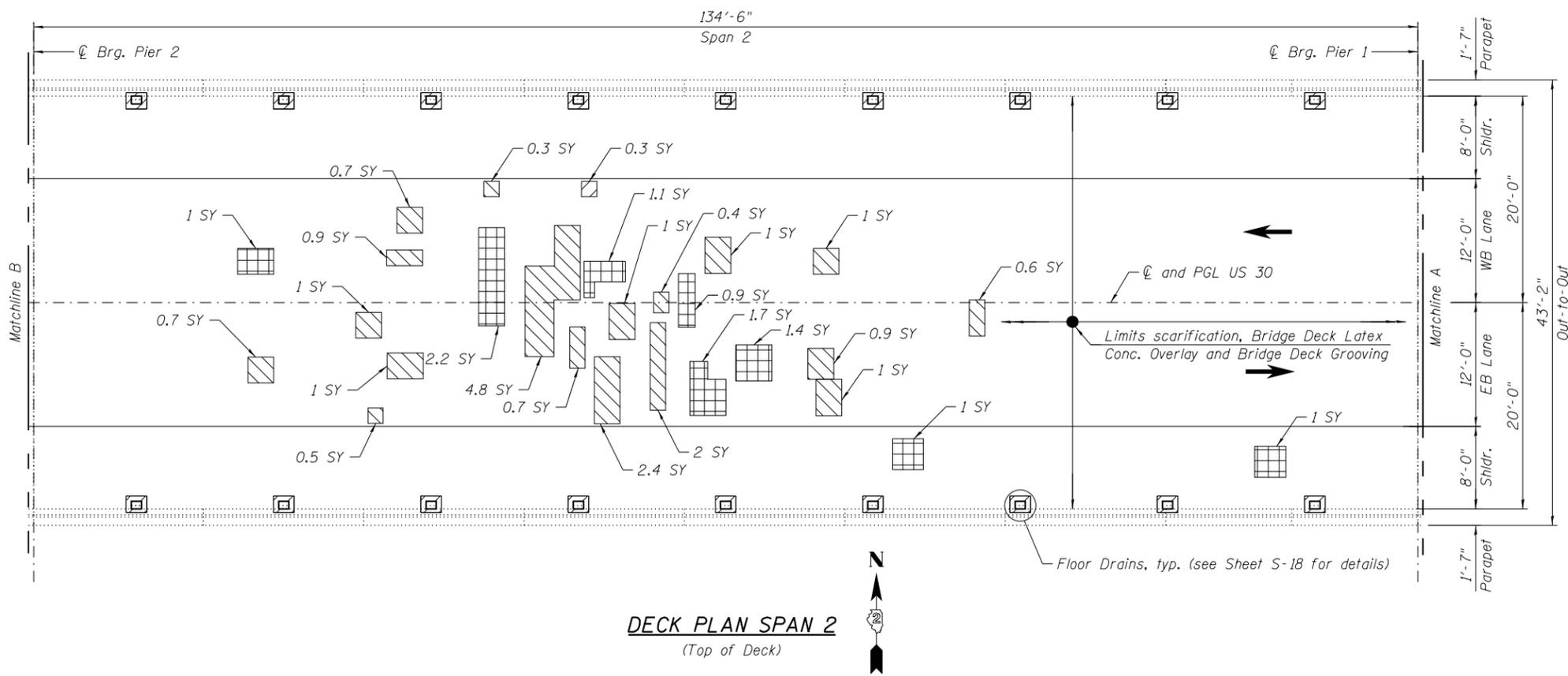
LEGEND

	Concrete Removal
	Deck Slab Repair (Partial) *
	Deck Slab Repair, (Full Depth, Type I)
	Deck Slab Repair, (Full Depth, Type II)
	Traffic direction
SY	Square Yard

* Approximately an additional 51 Sq. Yd. in roadway area for estimating purposes only (For Information Only)

NOTES

1. Areas of deck repair shown are estimated. The Engineer shall show actual locations of deck repairs at the time of construction.
2. For General Notes and Total Bill of Material, see Sheet S-03.
3. For Bill of Material see Sheet S-07.
4. For transverse joints at East and West abutments removal and reconstruction, see Sheets S-11 and S-12.
5. For Finger Plate joint at pier 4 removal and reconstruction, see Sheets S-14 thru S-17.
6. For bridge deck final cross section, see Sheet S-03.
7. Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into new construction. Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost included with Concrete Superstructure.
8. Perform bridge deck grooving for the bridge deck latex concrete overlay and the deck portion of the reconstructed transverse expansion joints.
9. Protective coat shall be applied to the transverse joints reconstructed areas.
10. Acrylic coating shall be applied to the inside face, back face and top of existing and reconstructed parapets.
11. The minimum thickness of the bridge deck latex concrete overlay shall be 2 1/4".
12. For floor drains details and deck repairs to remove and replace the floor drains, see sheet S-18.



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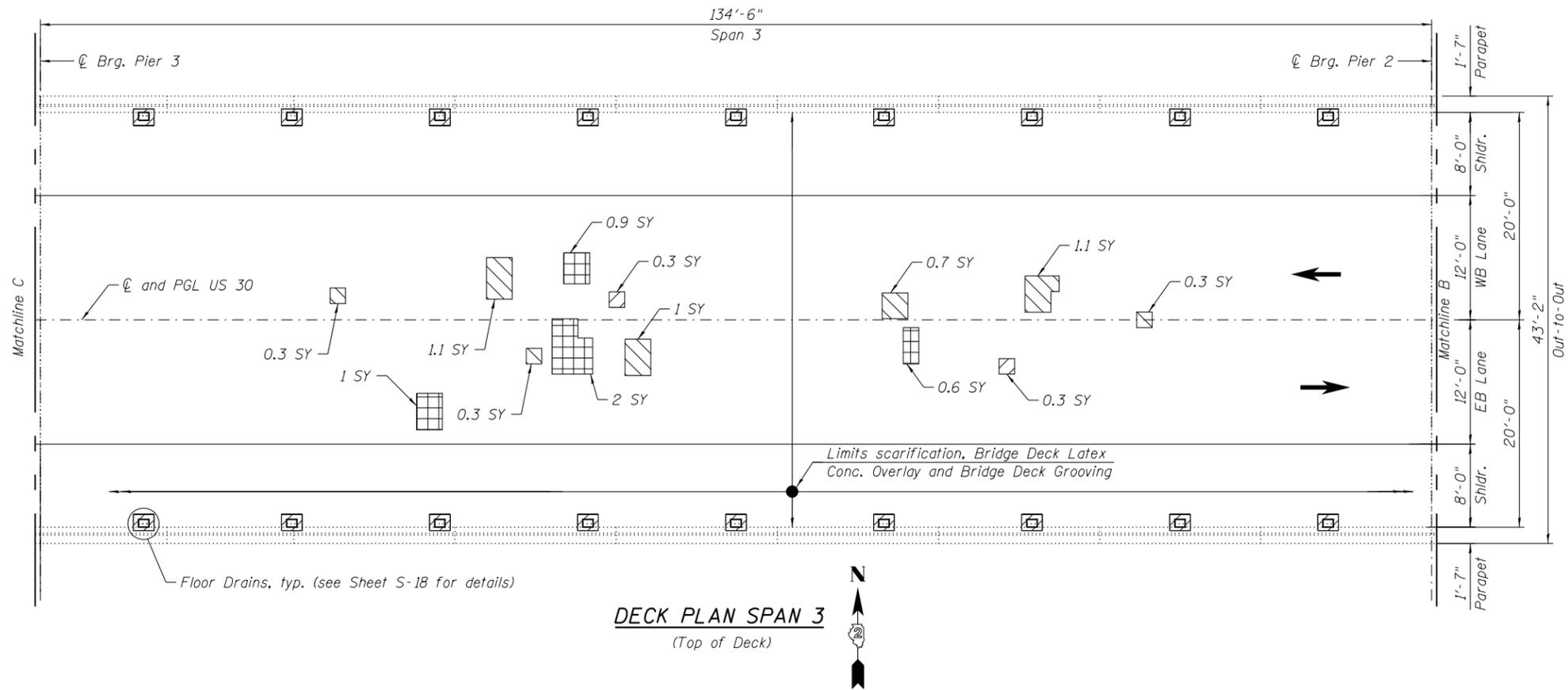
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE DECK REPAIR PLAN (SPANS 1 AND 2)
US ROUTE 30 OVER THE ROCK RIVER STRUCTURE NO. 098-0034

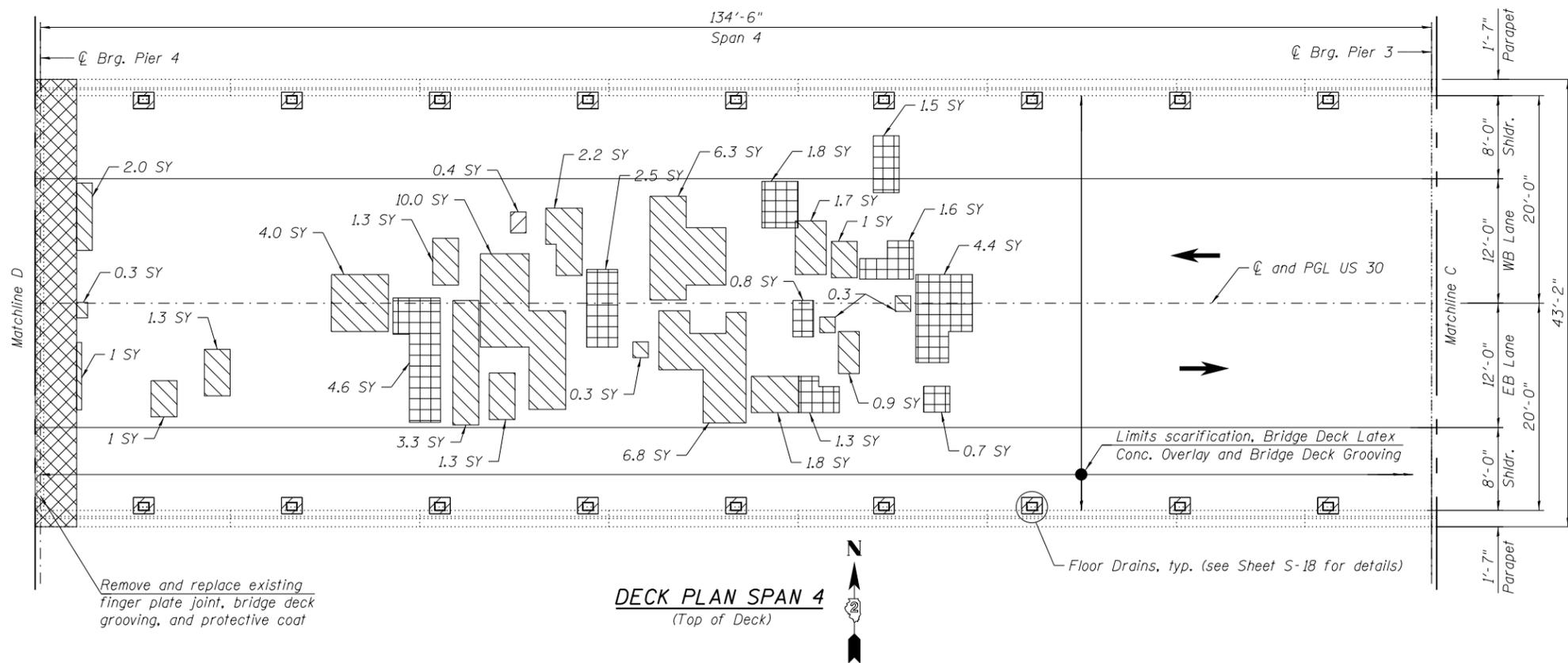
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1198	(110 BRM)	WHITESIDE	34	10
CONTRACT NO. 64L09				

SHEET S-04 OF S-23 SHEETS

ILLINOIS FED. AID PROJECT



DECK PLAN SPAN 3
(Top of Deck)



DECK PLAN SPAN 4
(Top of Deck)

NOTES

1. For Notes, see Sheet S-04.

LEGEND

- Concrete Removal
- Deck Slab Repair (Partial)*
- Deck Slab Repair, (Full Depth, Type I)
- Deck Slab Repair, (Full Depth, Type II)
- Traffic direction
- SY Square Yard

* Approximately an additional 52 Sq. Yd. in roadway area for estimating purposes only (For Information Only)

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

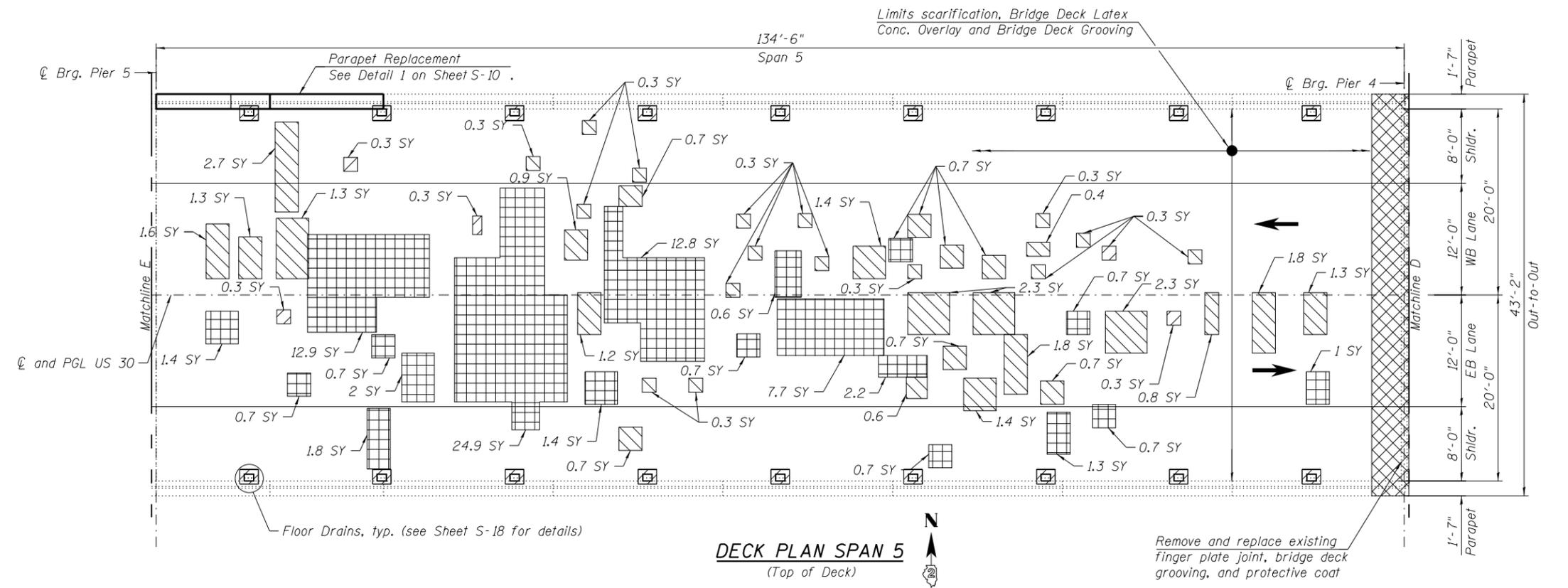
**BBRIDGE DECK REPAIR PLAN (SPANS 3 AND 4)
US ROUTE 30 OVER THE ROCK RIVER STRUCTURE NO. 098-0034**

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1198	(110 BRM)	WHITESIDE	34	11
CONTRACT NO. 64L09				

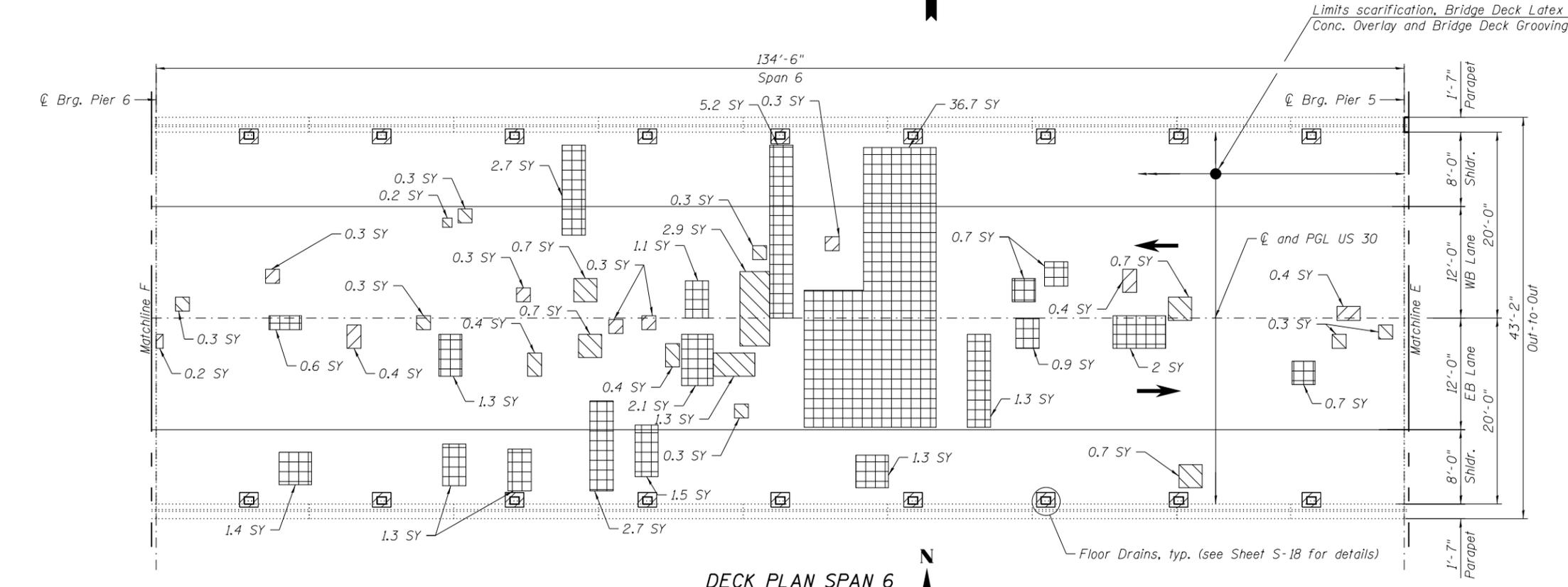
SHEET S-05 OF S-23 SHEETS

ILLINOIS FED. AID PROJECT

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DECK PLAN SPAN 5
(Top of Deck)



DECK PLAN SPAN 6
(Top of Deck)

NOTES
1. For Notes, see Sheet S-04.

LEGEND

- Concrete Removal
- Deck Slab Repair (Partial)*
- Deck Slab Repair, (Full Depth, Type I)
- Deck Slab Repair, (Full Depth, Type II)
- Traffic direction
- SY Square Yard

*Approximately an additional 45 Sq. Yd. in roadway area for estimating purposes only (For Information Only)



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE DECK REPAIR PLAN (SPANS 5 AND 6)
US ROUTE 30 OVER THE ROCK RIVER STRUCTURE NO. 098-0034

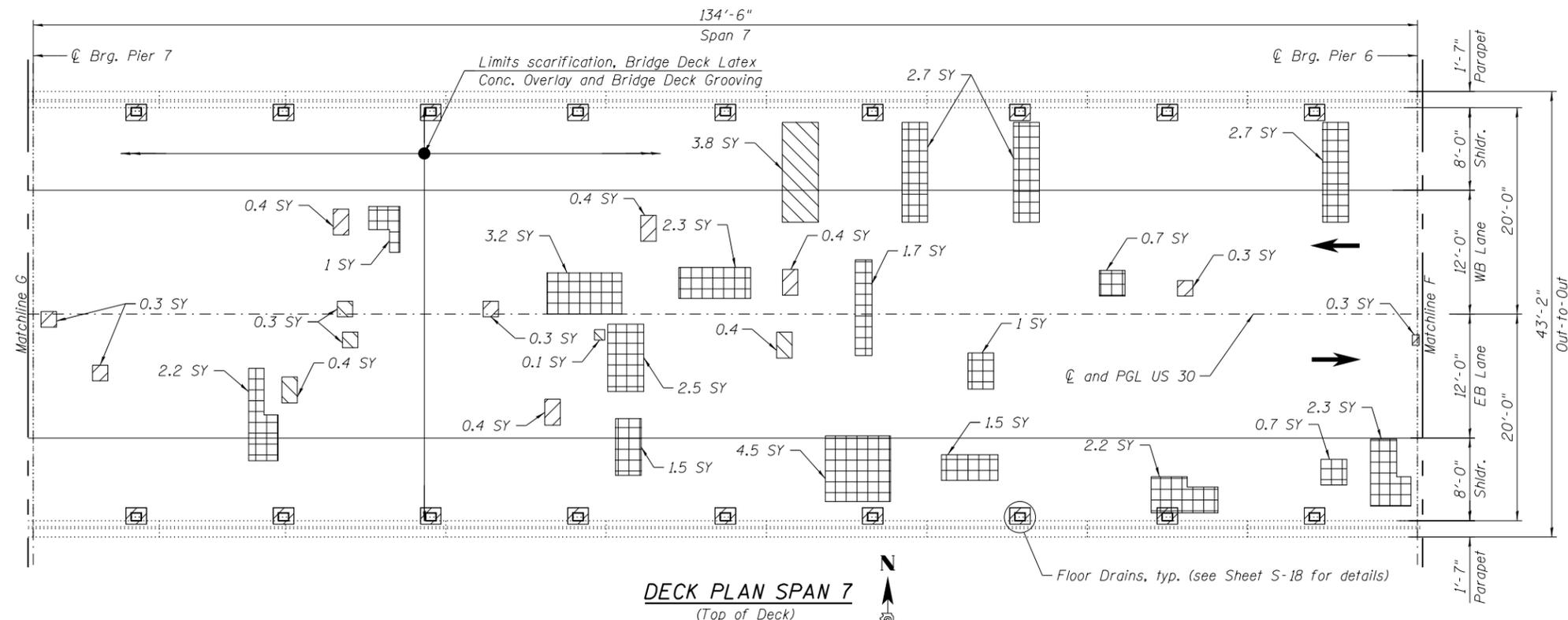
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1198	(110 BRM)	WHITESIDE	34	12
CONTRACT NO. 64L09				

SHEET S-06 OF S-23 SHEETS

ILLINOIS FED. AID PROJECT

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Bridge Deck Grooving	Sq. Yd.	4575
Bridge Deck Latex Concrete Overlay, 2 1/4 Inches	Sq. Yd.	4815
Bridge Deck Scarification, 3/4"	Sq. Yd.	4815
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	11
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	235

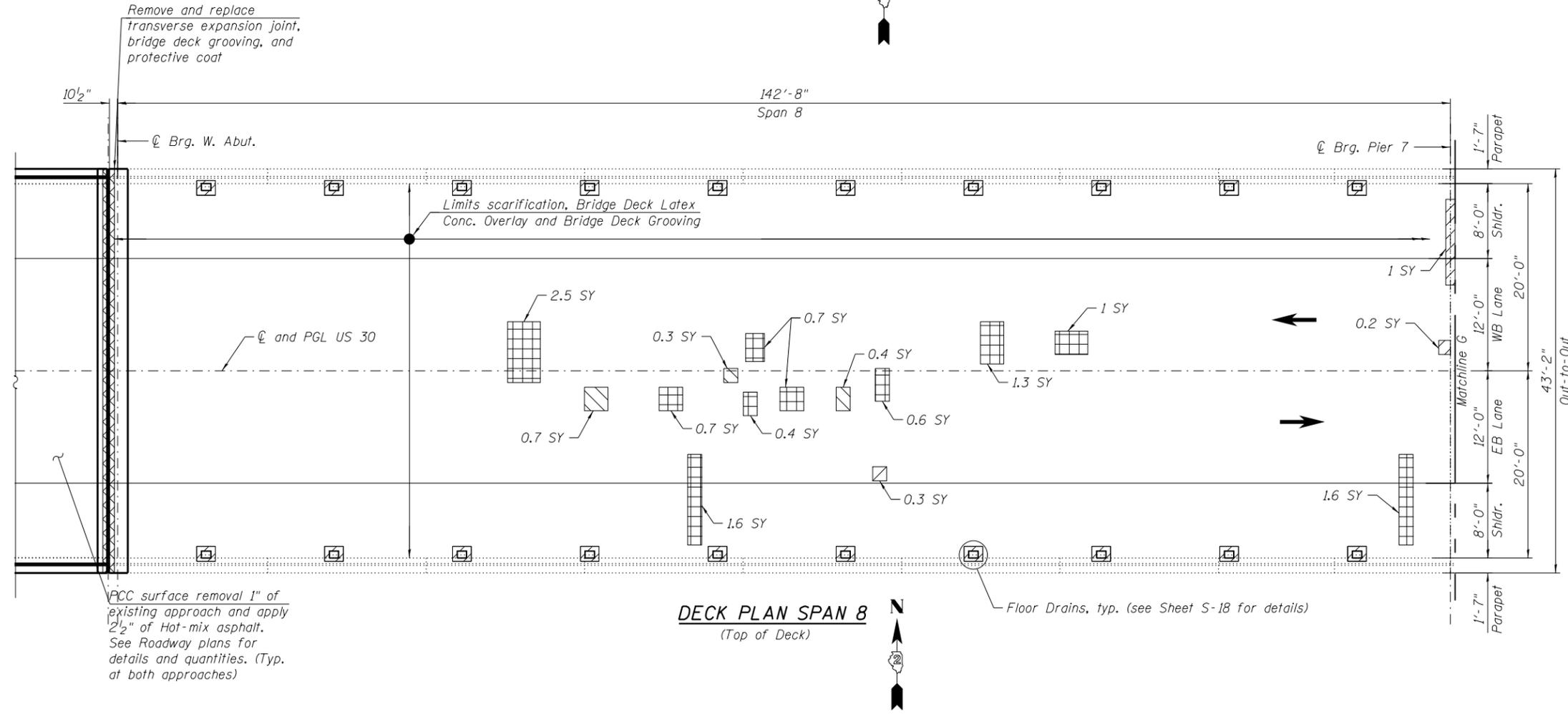


NOTES
1. For Notes, see Sheet S-04.

LEGEND

- Concrete Removal
- Deck Slab Repair (Partial)*
- Deck Slab Repair, (Full Depth, Type I)
- Deck Slab Repair, (Full Depth, Type II)
- Traffic direction
- SY Square Yard

* Approximately an additional 7 Sq. Yd. in roadway area for estimating purposes only (For Information Only)



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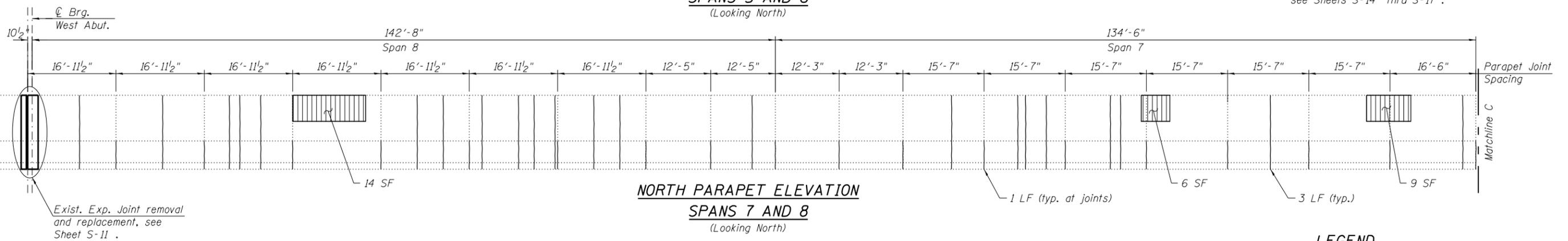
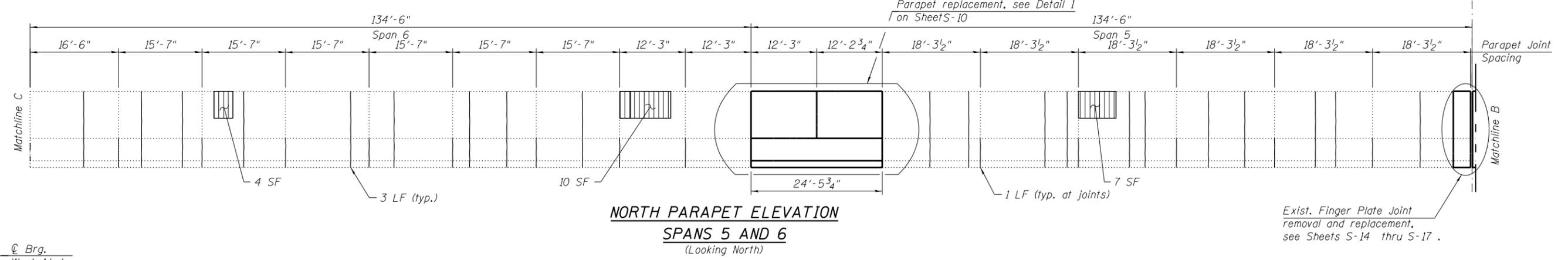
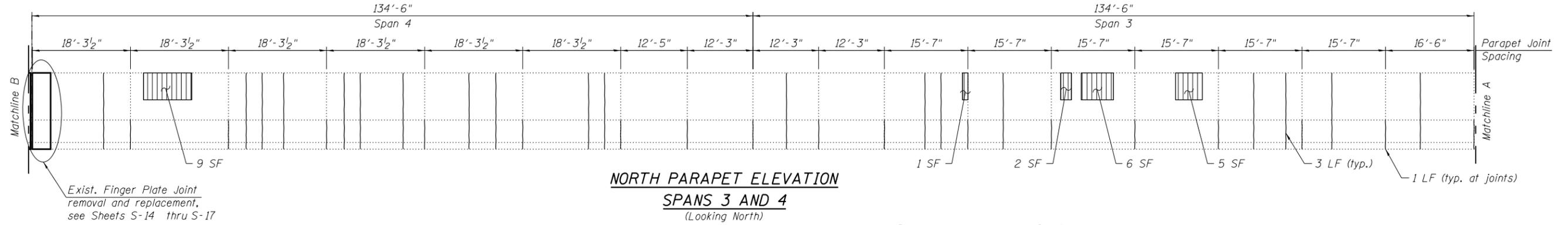
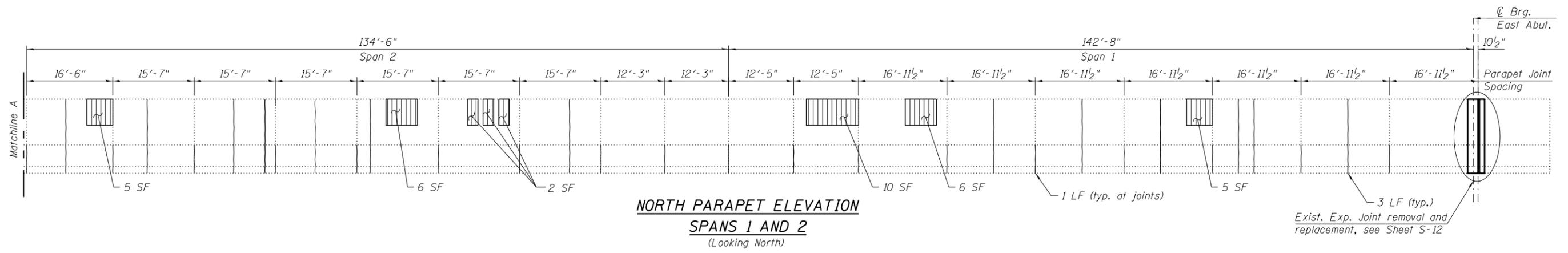
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE DECK REPAIR PLAN (SPANS 7 AND 8)
US ROUTE 30 OVER THE ROCK RIVER STRUCTURE NO. 098-0034

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1198	(110 BRM)	WHITESIDE	34	13
CONTRACT NO. 64L09				

SHEET S-07 OF S-23 SHEETS

ILLINOIS FED. AID PROJECT



NOTE

- Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired and the type(s) of repairs to be used will be determined by the Engineer in the field at the time of construction.
- For Bill of Material and additional Notes, see Sheet S-10.

LEGEND

	Structural Repair of Concrete (Depth Equal to or Less Than 5")
	Low Pressure Epoxy Injection (Width >0.06")

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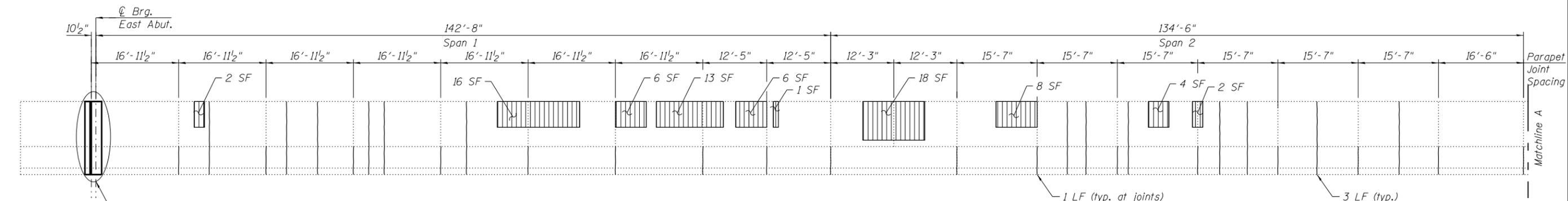
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**NORTH PARAPET REPAIRS ELEVATION
US ROUTE 30 OVER THE ROCK RIVER STRUCTURE NO. 098-0034**

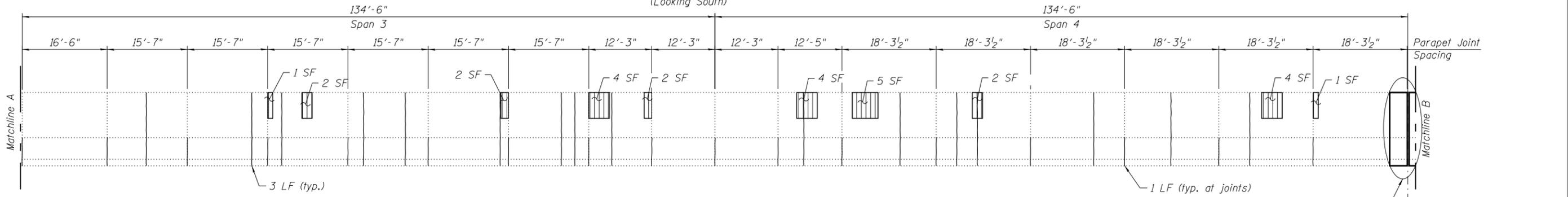
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1198	(110 BRM)	WHITESIDE	34	14
CONTRACT NO. 64L09				

SHEET S-08 OF S-23 SHEETS

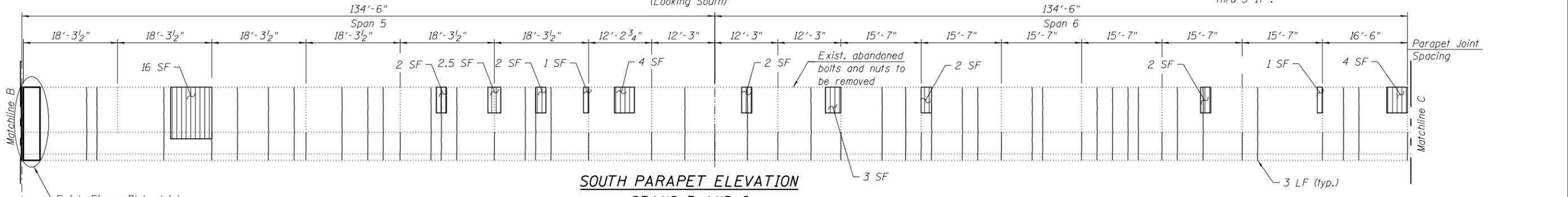
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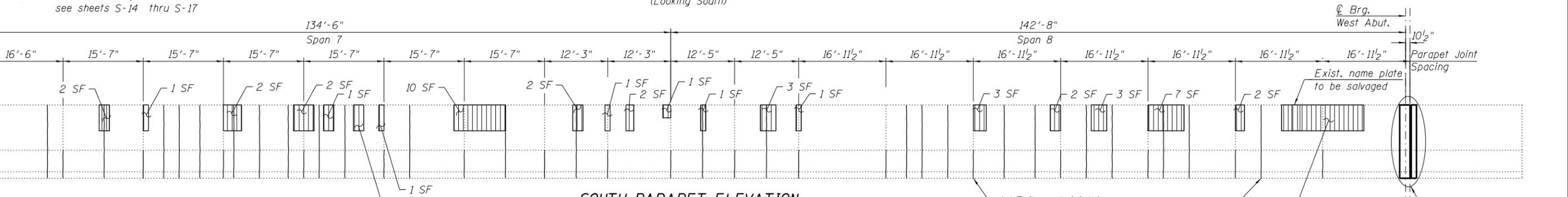
**SOUTH PARAPET ELEVATION
SPANS 1 AND 2**
(Looking South)



**SOUTH PARAPET ELEVATION
SPANS 3 AND 4**
(Looking South)



**SOUTH PARAPET ELEVATION
SPANS 5 AND 6**
(Looking South)



**SOUTH PARAPET ELEVATION
SPANS 7 AND 8**
(Looking South)

NOTE

- Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired and the type(s) of repairs to be used will be determined by the Engineer in the field at the time of construction.
- For Bill of Material and additional Notes, see Sheet S-10.

LEGEND

- Structural Repair of Concrete (Depth Equal to or Less Than 5")
- Low Pressure Epoxy Injection (Width >0.06")

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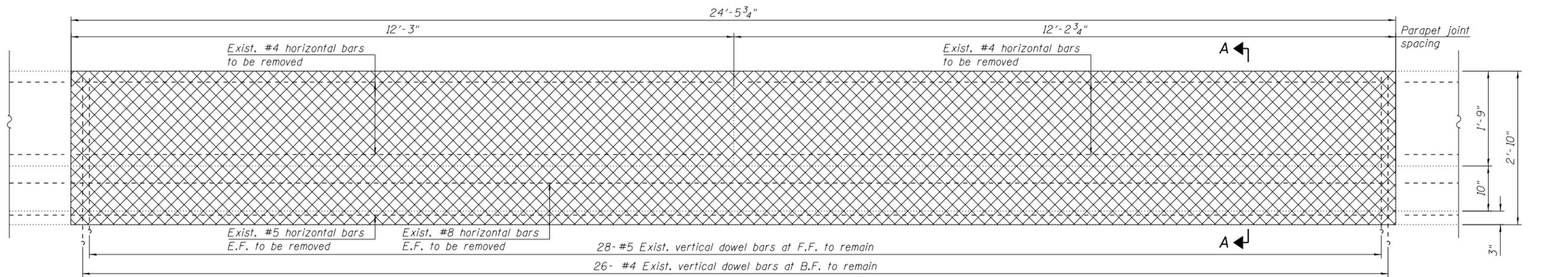
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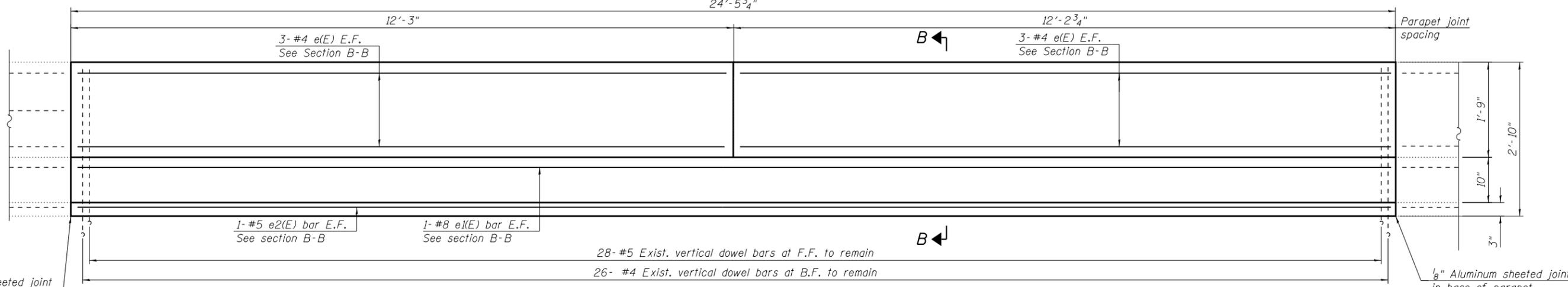
**SOUTH PARAPET REPAIR ELEVATION
US ROUTE 30 OVER THE ROCK RIVER STRUCTURE NO. 098-0034**

SHEET S-09 OF S-23 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1198	(110 BRM)	WHITESIDE	34	15
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L09	



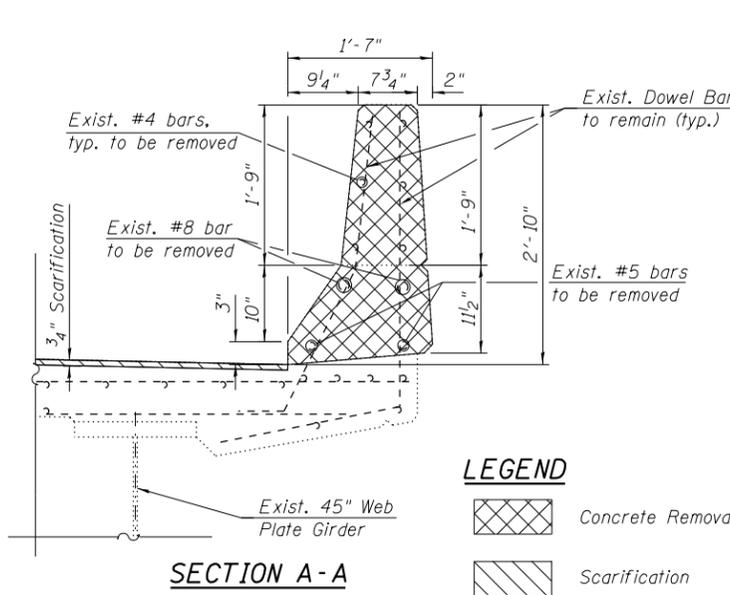
DETAIL 1 REMOVAL ELEVATION



DETAIL 1 CONSTRUCTION ELEVATION

NOTES

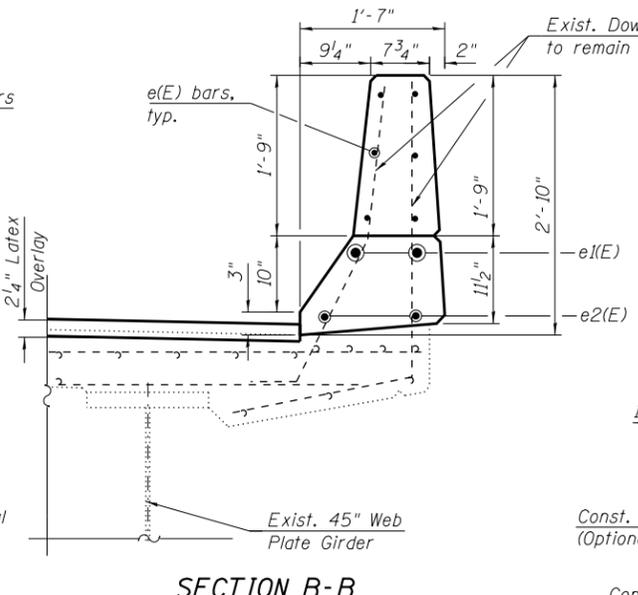
- For General Notes and Total Bill of Material, see Sheet S-03.
- The Contractor is responsible to remove, support and reinstall all existing utilities interfering with the work. Cost shall be included with structural Repair of Concrete (Depth Equal to or Less Than 5")
- Existing dowel reinforcement bars extending into the removal areas shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.
- Acrylic coating shall be applied to the inside face, back face and top of new and existing parapets.



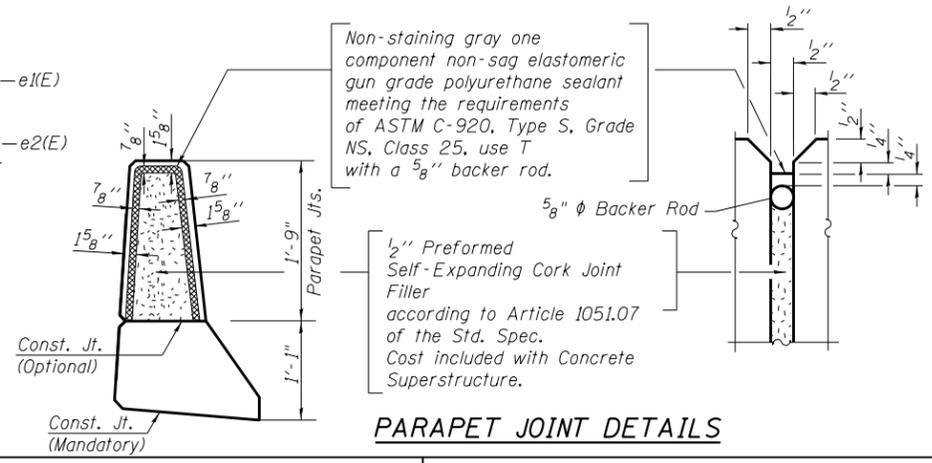
SECTION A-A

LEGEND

- Concrete Removal
- Scarification



SECTION B-B



PARAPET JOINT DETAILS

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
e(E)	12	#4	11'-11"	—
e(I(E)	2	#8	24'-2"	—
e2(E)	2	#5	24'-2"	—
Concrete Removal			Cu. Yd.	2.5
Concrete Superstructure			Cu. Yd.	2.5
Reinforcement Bars, Epoxy Coated			Pound	257
Epoxy Crack Injection			Foot	611
Acrylic Coating			Sq. Yd.	1,528
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)			Sq. Ft.	322

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**PARAPET SECTIONS AND DETAILS
US ROUTE 30 OVER THE ROCK RIVER STRUCTURE NO. 098-0034**

SHEET S-10 OF S-23 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1198	(110 BRM	WHITESIDE	34	16
CONTRACT NO. 64L09				

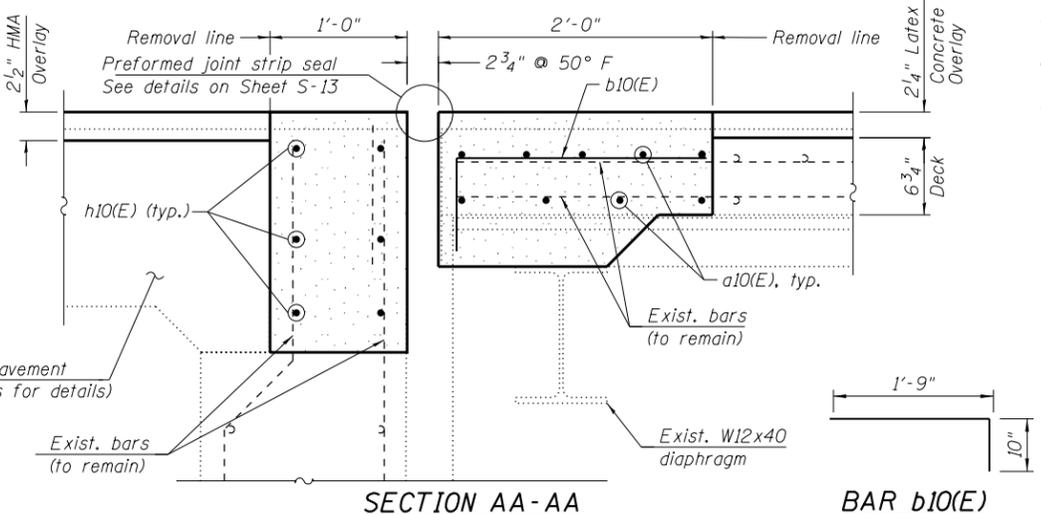
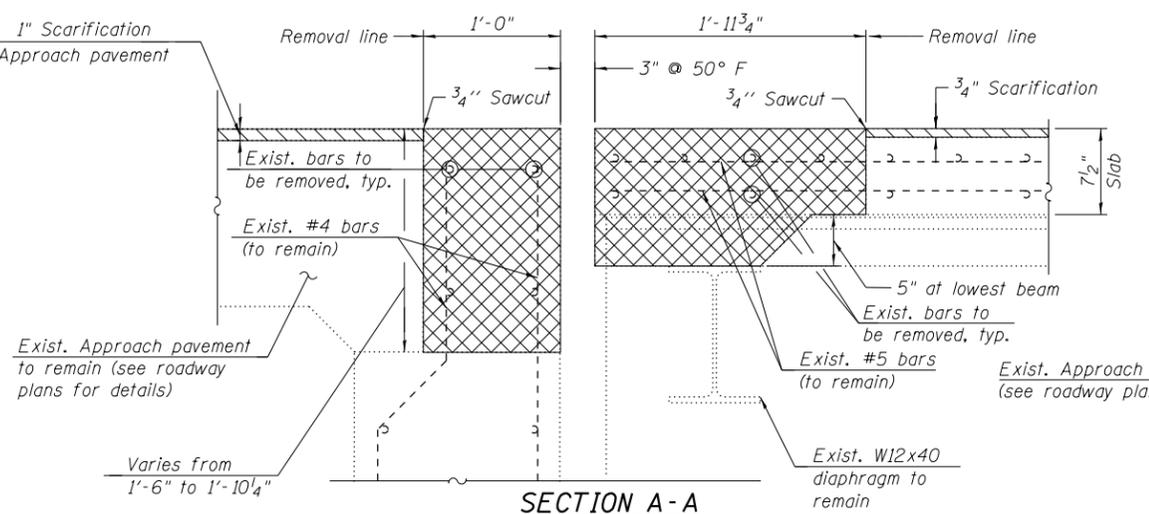
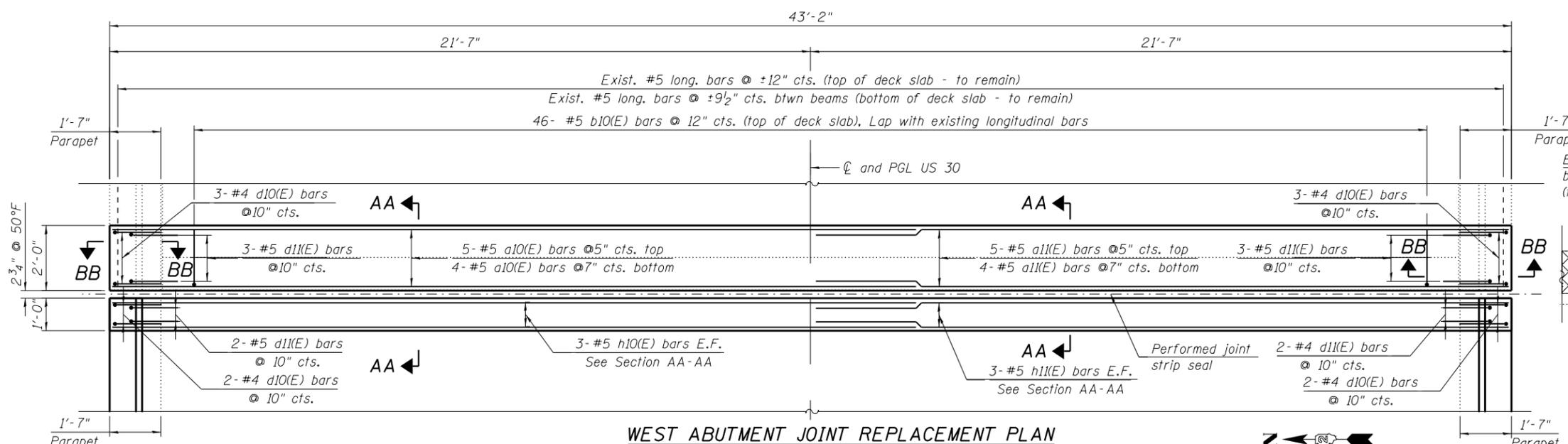
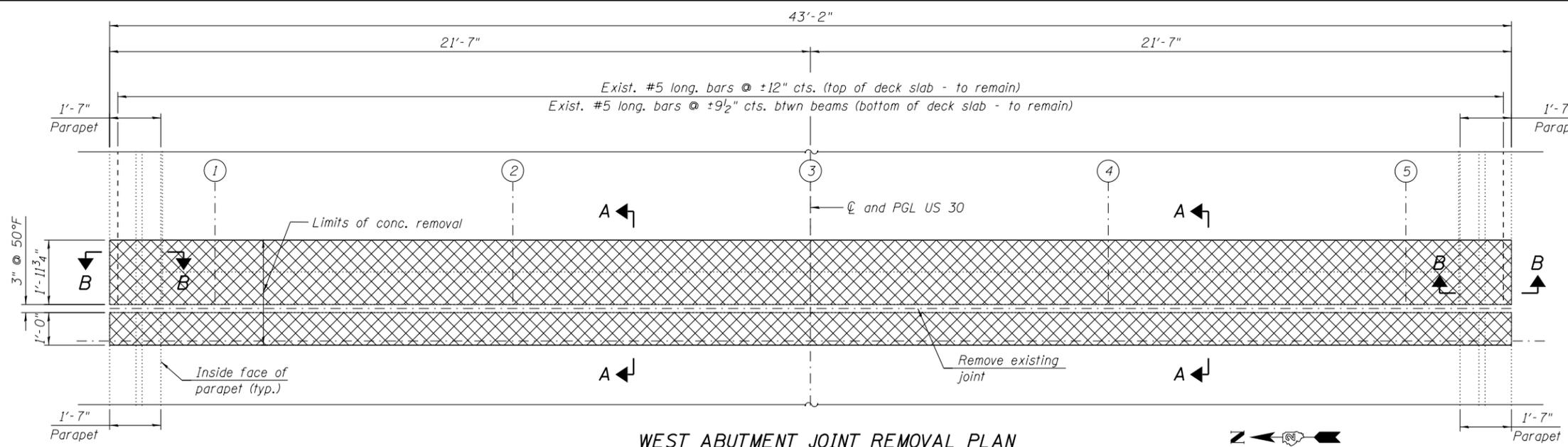
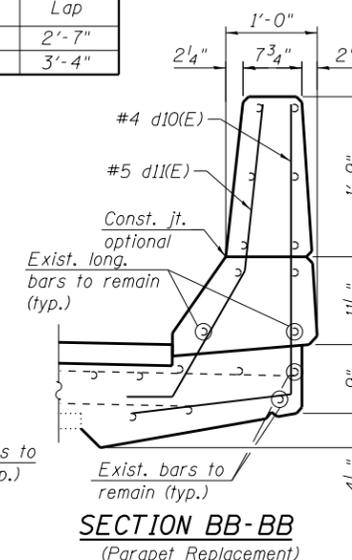
ILLINOIS FED. AID PROJECT

BILL OF MATERIAL

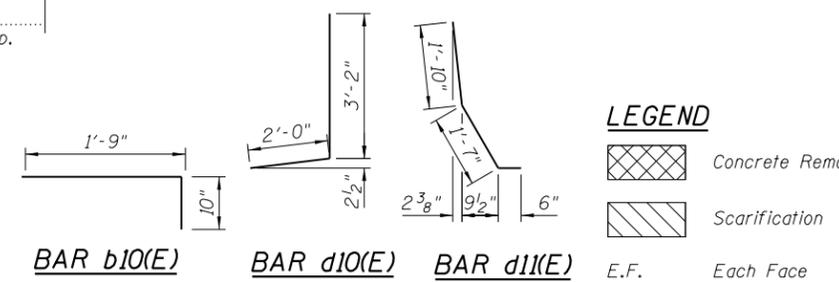
Bar	No.	Size	Length	Shape
a10(E)	9	#5	24'-9"	—
a11(E)	9	#5	21'-5"	—
b10(E)	46	#5	2'-7"	└
d10(E)	10	#4	5'-2"	J
d11(E)	10	#5	3'-11"	└
h10(E)	6	#5	24'-9"	—
h11(E)	6	#5	21'-5"	—
Concrete Removal		Cu. Yd.	6.3	
Concrete Superstructure		Cu. Yd.	6.9	
Bridge Deck Grooving		Sq. Yd.	13	
Protective Coat		Sq. Yd.	14	
Reinforcement Bars, Epoxy Coated		Pound	922	

Reinforcement bars designated (E) shall be epoxy coated.

Bar	Lap
#4	2'-7"
#5	3'-4"



- NOTES:**
- For General Notes and Total Bill of Material, see Sheet S-03.
 - For preformed joint strip seal details, see Sheet S-13.
 - Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.



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**STATE OF ILLINOIS
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**WEST ABUTMENT JOINT REMOVAL AND REPLACEMENT
 US ROUTE 30 OVER THE ROCK RIVER STRUCTURE NO. 098-0034**

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1198	(110 BRM)	WHITESIDE	34	17
CONTRACT NO. 64L09				

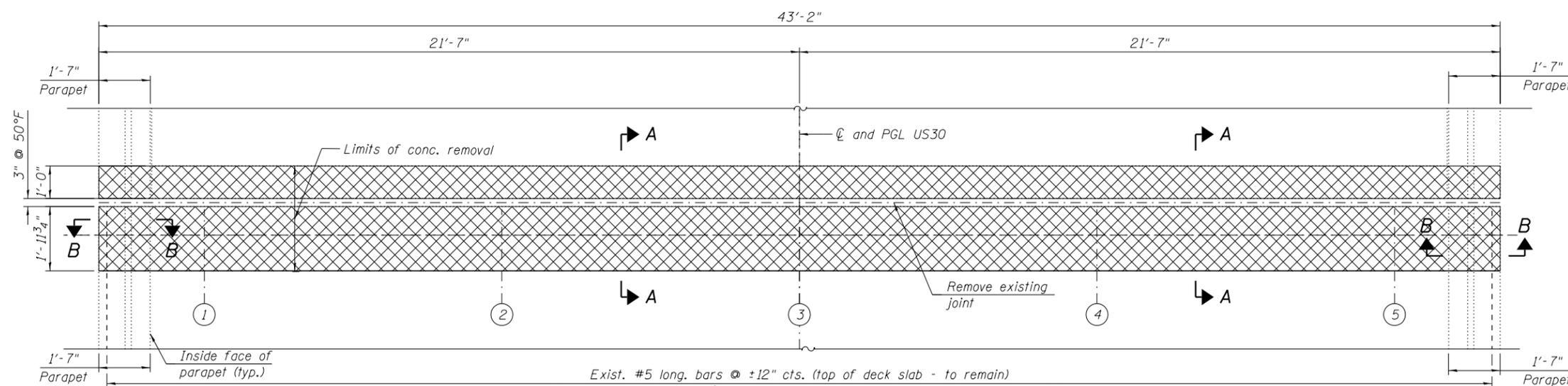
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BILL OF MATERIAL

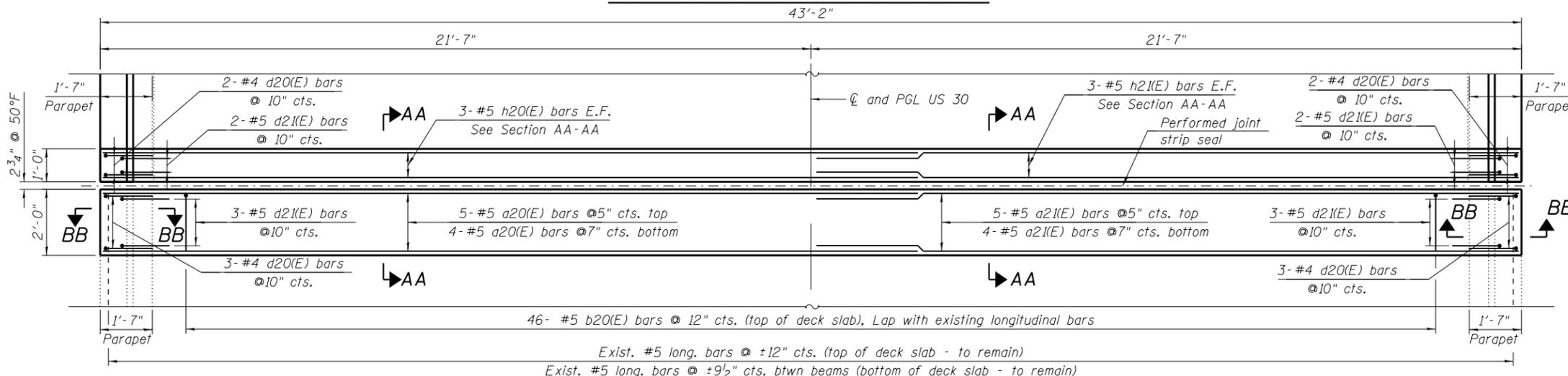
Bar	No.	Size	Length	Shape
a20(E)	9	#5	24'-9"	—
a21(E)	9	#5	21'-5"	—
b20(E)	46	#5	2'-7"	└
d20(E)	10	#4	5'-2"	┘
d21(E)	10	#5	3'-11"	┘
h20(E)	6	#5	24'-9"	—
h21(E)	6	#5	21'-5"	—
Concrete Removal			Cu. Yd.	6.3
Concrete Superstructure			Cu. Yd.	6.9
Bridge Deck Grooving			Sq. Yd.	13
Protective Coat			Sq. Yd.	14
Reinforcement Bars, Epoxy Coated			Pound	922

Reinforcement bars designated (E) shall be epoxy coated.

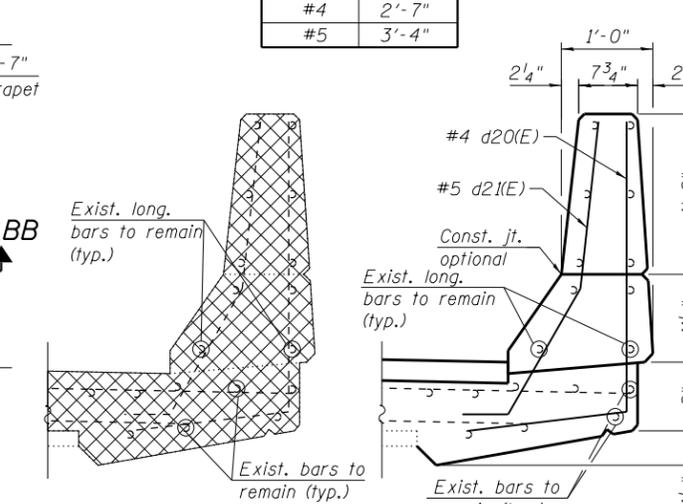
Minimum Bar Laps	
Bar	Lap
#4	2'-7"
#5	3'-4"



EAST ABUTMENT JOINT REMOVAL PLAN

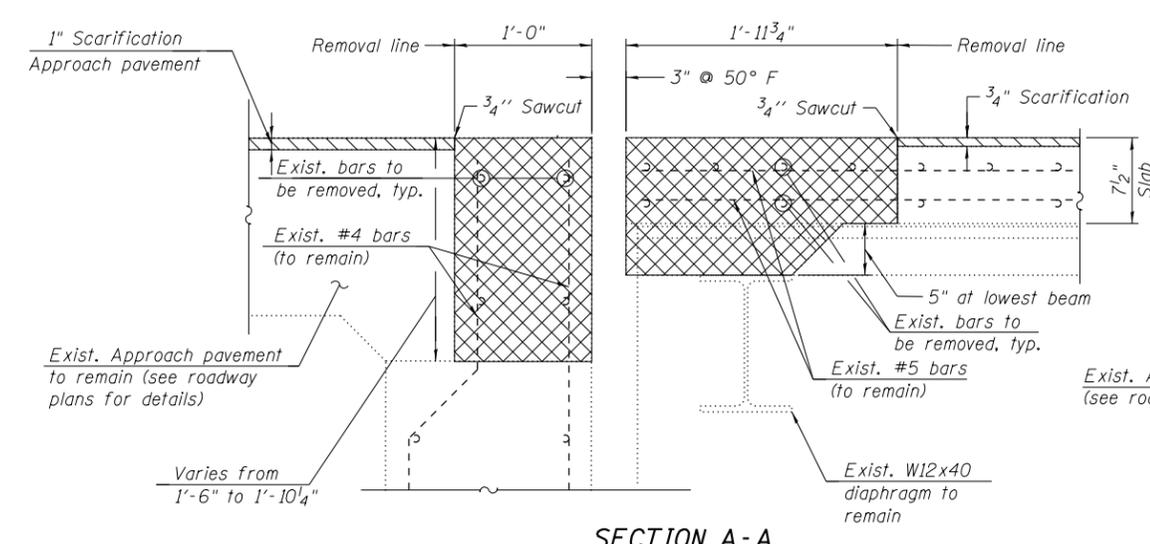


EAST ABUTMENT JOINT REPLACEMENT PLAN

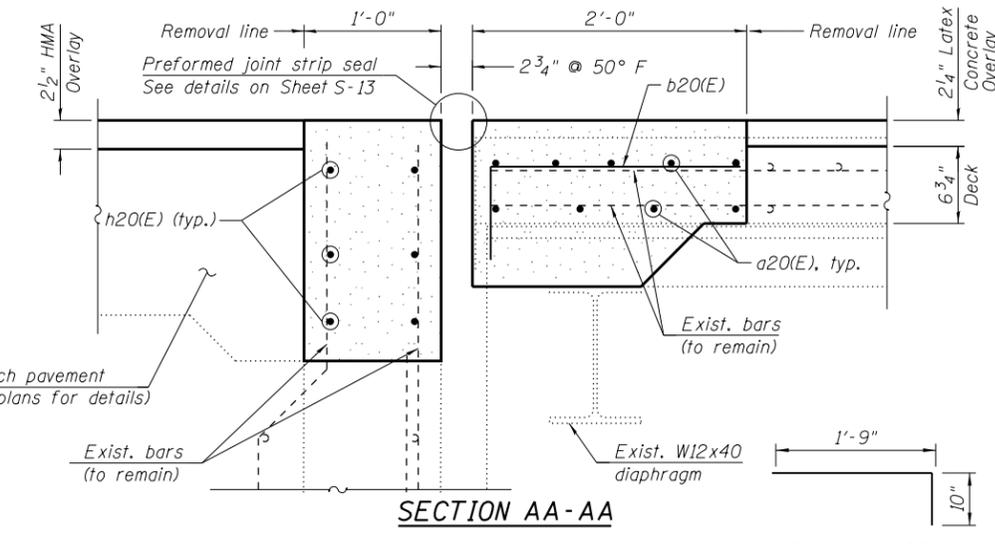


SECTION B-B
(Parapet Removal)

SECTION BB-BB
(Parapet Replacement)



SECTION A-A



SECTION AA-AA

BAR b20(E)

BAR d20(E)

BAR d21(E)

LEGEND

- Concrete Removal
- Scarification
- E.F. Each Face

NOTES:

- For General Notes and Total Bill of Material, see Sheet S-03.
- For preformed joint strip seal details, see Sheet S-13.
- Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.



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EAST ABUTMENT JOINT REMOVAL AND REPLACEMENT
US ROUTE 30 OVER THE ROCK RIVER STRUCTURE NO. 098-0034

F.A.S. RTE.	SECTION	TOTAL SHEETS	SHEET NO.
1198	(110 BRM)	34	18
COUNTY		CONTRACT NO.	
WHITESIDE		64L09	

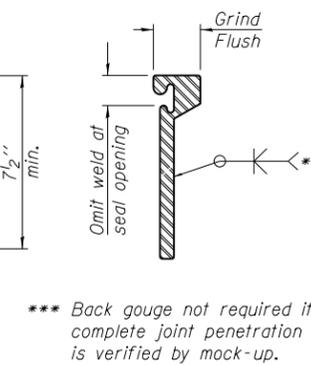
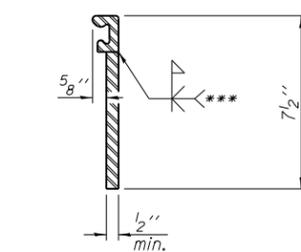
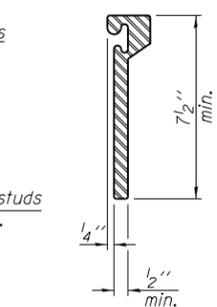
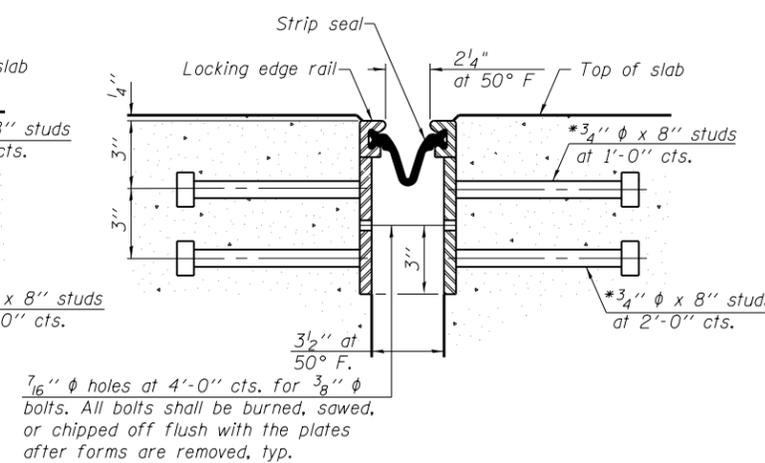
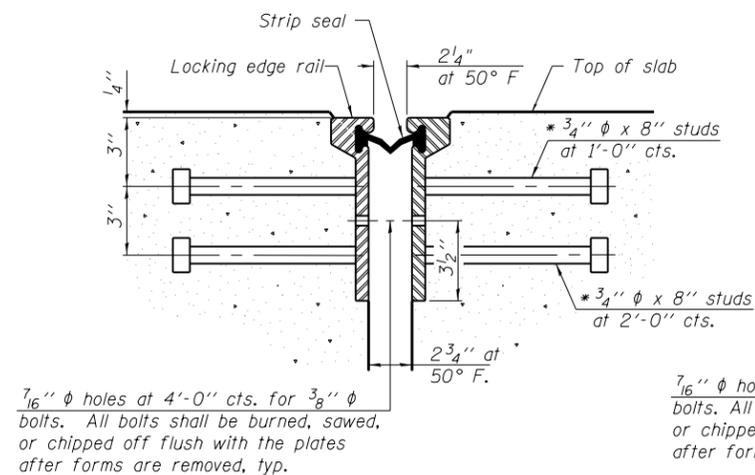
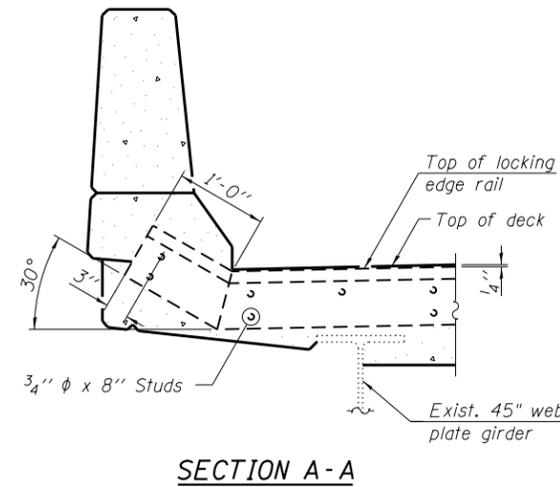
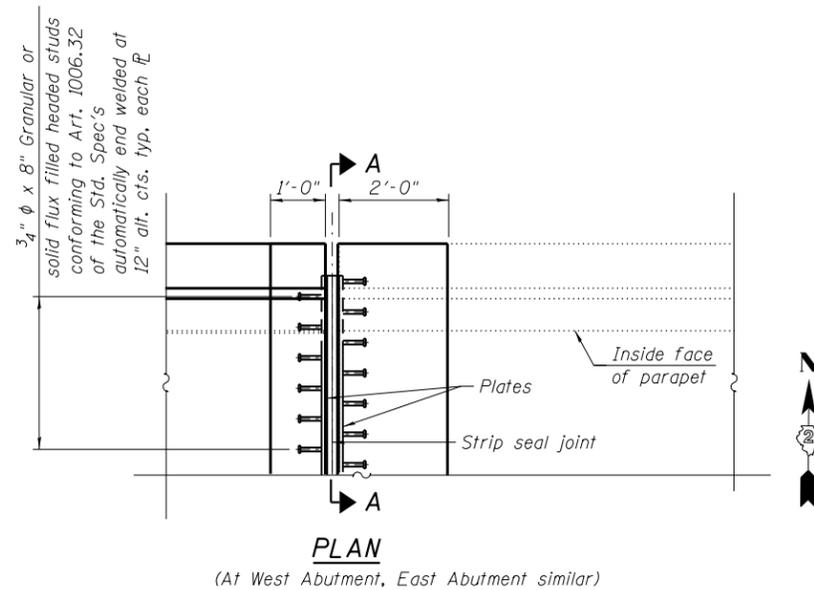
SHEET S-12 OF S-23 SHEETS

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NOTES:

1. The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.
2. The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.
3. The manufacturer's recommended installation methods shall be followed.
4. The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.
5. All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.
6. Maximum space between rail segments shall be 3/16" sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.



LOCKING EDGE RAILS

The inside of the locking edge rail groove shall be free of weld residue.
Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	86

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



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DEPARTMENT OF TRANSPORTATION**

**PREFORMED JOINT STRIP SEAL
US ROUTE 30 OVER THE ROCK RIVER STRUCTURE NO. 098-0034**

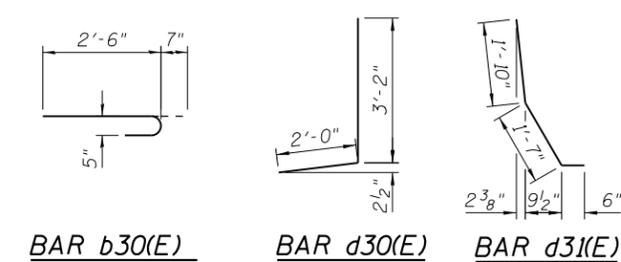
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1198	(110 BRM)	WHITESIDE	34	19
CONTRACT NO. 64L09				
ILLINOIS FED. AID PROJECT				

SHEET S-13 OF S-23 SHEETS

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a30(E)	24	#5	24'-9"	—
a31(E)	24	#5	21'-5"	—
b30(E)	92	#5	3'-1"	⌋
d30(E)	20	#4	5'-2"	J
d31(E)	20	#5	3'-11"	⌋
Concrete Removal		Cu. Yd.	9.2	
Concrete Superstructure		Cu. Yd.	10.5	
Bridge Deck Grooving		Sq. Yd.	16	
Protective Coat		Sq. Yd.	17	
Reinforcement Bars		Pound	1602	
Epoxy Coated				
Mechanical Splicers		Each	92	

Reinforcement bars designated (E) shall be epoxy coated.

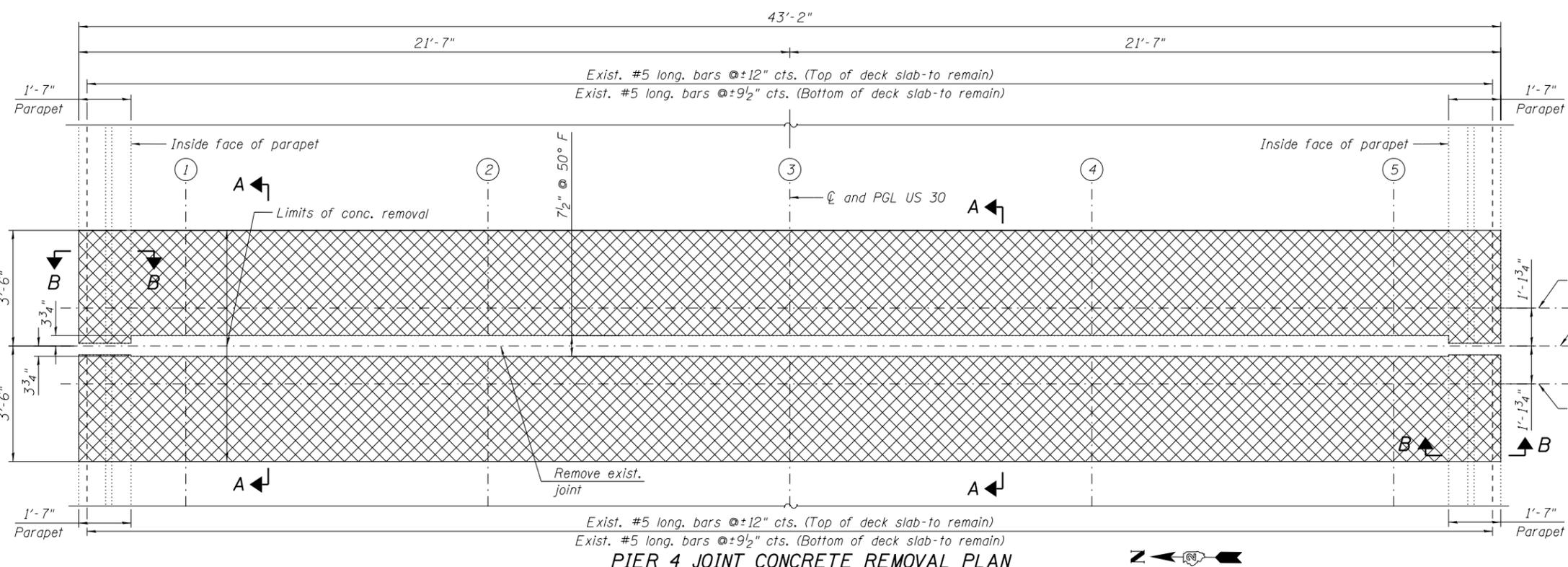


BAR b30(E) **BAR d30(E)** **BAR d31(E)**

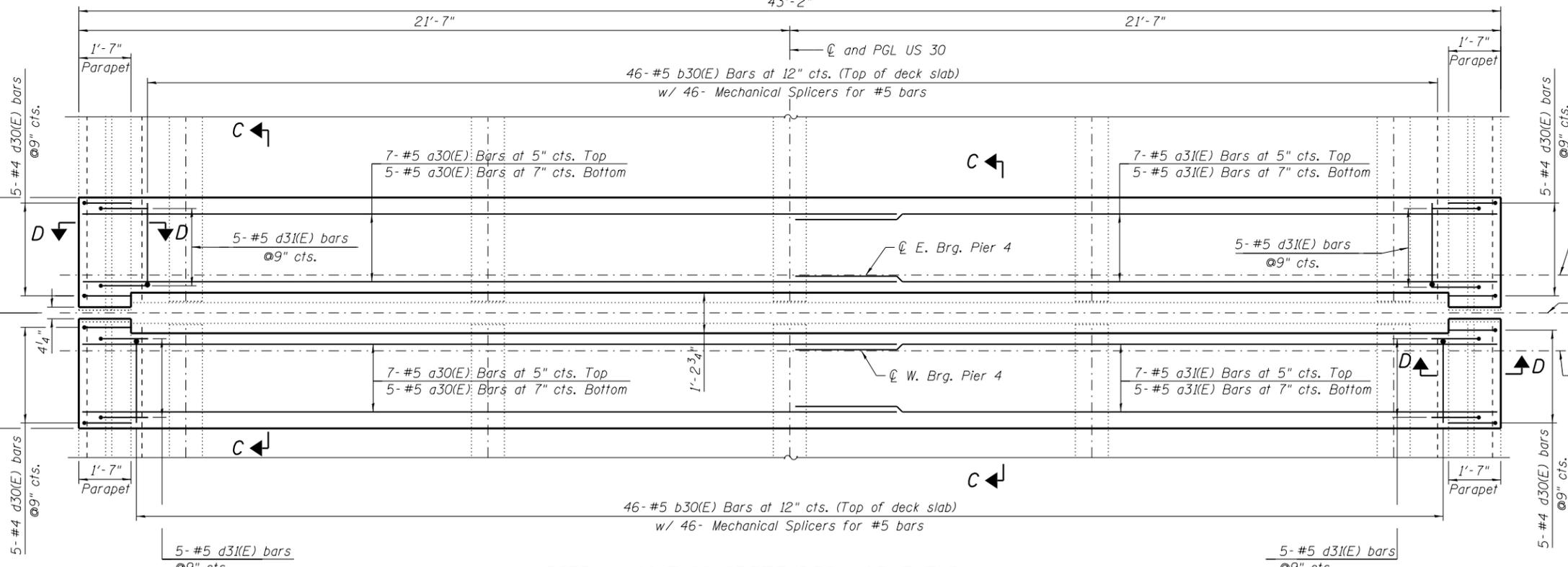
NOTES:

- For General Notes and Total Bill of Material, see Sheet S-03.
- For Sections A-A, B-B, C-C and D-D, see Sheet S-16.
- Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.
- Perimeter of concrete removal area shall be sawcut 3/4" prior to removal.
- Work this sheet with sheets S-15 thru S-17.
- Cost of removal and disposal of existing Finger Plate Expansion Joint and Fabric Reinforced Elastomeric Trough shall not be paid separately and shall be included in the cost of Concrete Removal.

LEGEND



PIER 4 JOINT CONCRETE REMOVAL PLAN



PIER 4 JOINT CONCRETE REPLACEMENT PLAN

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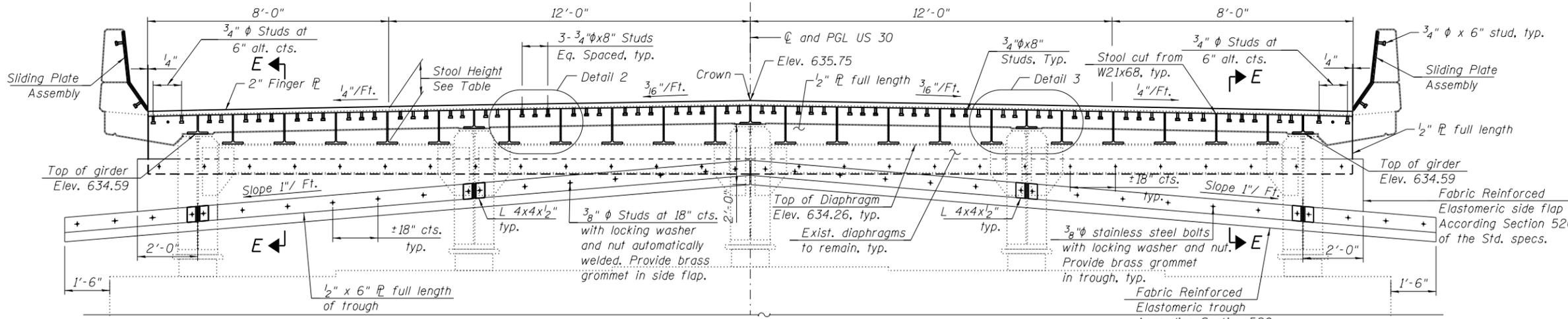
**PIER 4 FINGER PLATE JOINT CONCRETE REMOVAL AND REPLACEMENT
US ROUTE 30 OVER THE ROCK RIVER STRUCTURE NO. 098-0034**

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1198	(110 BRM)	WHITESIDE	34	20
CONTRACT NO. 64L09				
ILLINOIS FED. AID PROJECT				

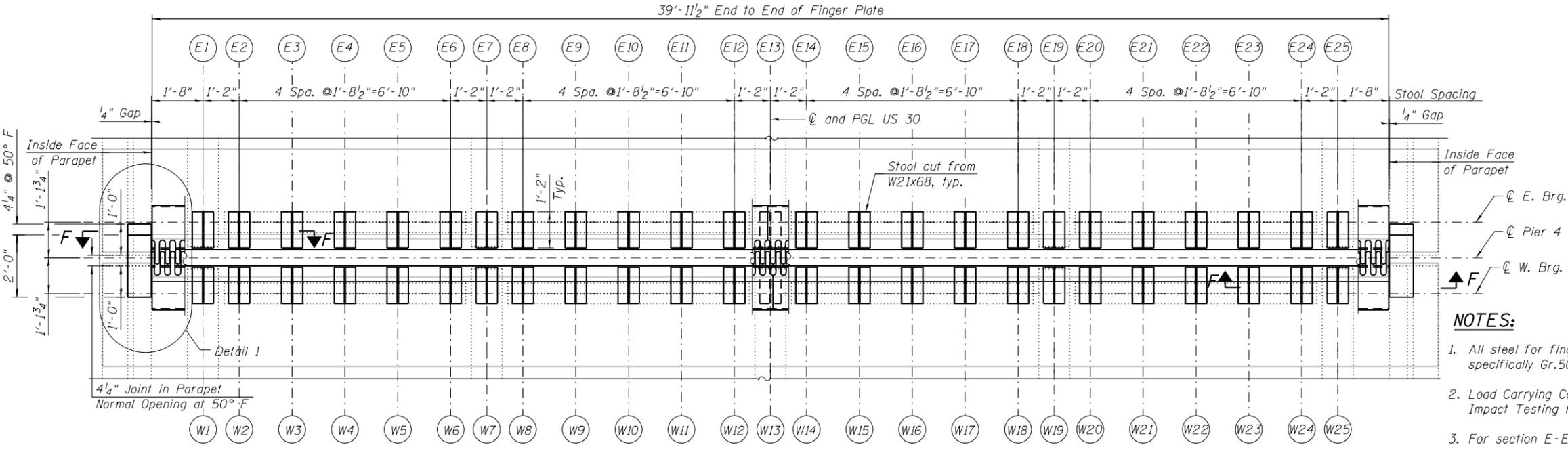
SHEET S-14 OF S-23 SHEETS

STOOLS SCHEDULE

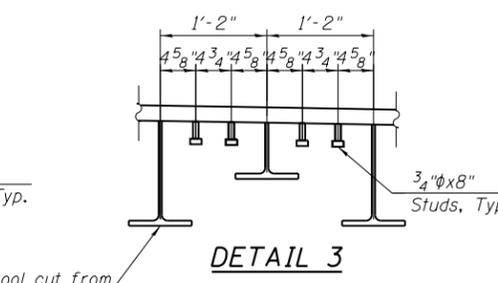
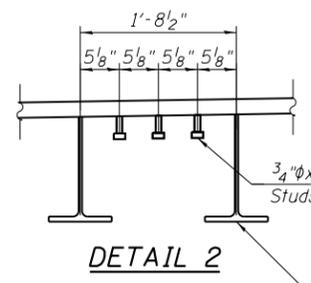
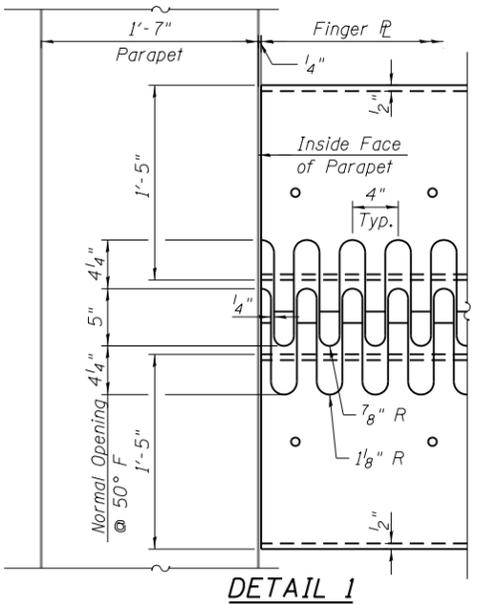
Stool No	Stool Height (Inches)	Stool No	Stool Height (Inches)
E1	7 5/16	W1	7 5/16
E2	11 5/8	W2	11 5/8
E3	12	W3	12
E4	12 7/16	W4	12 7/16
E5	12 7/8	W5	12 7/8
E6	13 3/16	W6	13 3/16
E7	7 5/16	W7	7 5/16
E8	13 5/8	W8	13 5/8
E9	13 15/16	W9	13 15/16
E10	14 1/4	W10	14 1/4
E11	14 5/8	W11	14 5/8
E12	14 15/16	W12	14 15/16
E13	7 5/16	W13	7 5/16
E14	14 15/16	W14	14 15/16
E15	14 5/8	W15	14 5/8
E16	14 1/4	W16	14 1/4
E17	13 15/16	W17	13 15/16
E18	13 3/4	W18	13 3/4
E19	7 5/16	W19	7 5/16
E20	13 3/16	W20	13 3/16
E21	12 7/8	W21	12 7/8
E22	12 7/16	W22	12 7/16
E23	12	W23	12
E24	11 3/4	W24	11 3/4
E25	7 5/16	W25	7 5/16



ELEVATION OF FINGER PLATE EXPANSION JOINT
(Looking East)



PLAN OF FINGER PLATE EXPANSION JOINT
(At Pier 4)



**FINGER PLATE EXPANSION JOINT
INSTALLATION PROCEDURE**

1. Perimeter of concrete removal area shall be saw cut 3/4" prior to removal.
2. Remove Concrete Deck and parapet shown.
3. After concrete deck is removed, the finger plate and stools shall be removed. Cost included with Concrete Removal.
4. Install new Finger plate assembly with new shims and bolts. Adjust stools to account for any temperature variation from 50°F.
5. Install through to match slope shown.

BILL OF MATERIAL

Item	Unit	Total
Finger Plate Expansion Joint, 4"	Foot	40
Fabric Reinforced Elastomeric Trough	Foot	40

NOTES:

1. All steel for finger plate joint shall conform to AASHTO M270 specifically Gr.50 (NTR).
2. Load Carrying Components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.
3. For section E-E and F-F, see sheet S-16.
4. Shims shall be added under the stools as required by the Engineer to make a smooth finger joint. Cost shall be included in the cost of "Finger Plate Expansion Joint, 4".
5. Holes in new stools are to be field drilled using holes in existing connection as template.
6. Existing stools shall be removed and replaced with proposed stools in the same location.
7. Contractor shall verify all stool locations and top of diaphragm elevations.
8. Holes on stools shall be field drilled using existing holes in diaphragms as templates.
9. Field drill 5/16" diameter hole in top flange of existing girder where stool bears on girder.
10. Finger plate expansion joints shall be assembled in their final relative position with ends in place for shop inspection and acceptance.
11. All field measurements and hole drilling prior to and after the structural steel for the Finger Plate Expansion Joint fabrication shall not be paid separately and shall be included with the Finger Plate Expansion Joint, 4".

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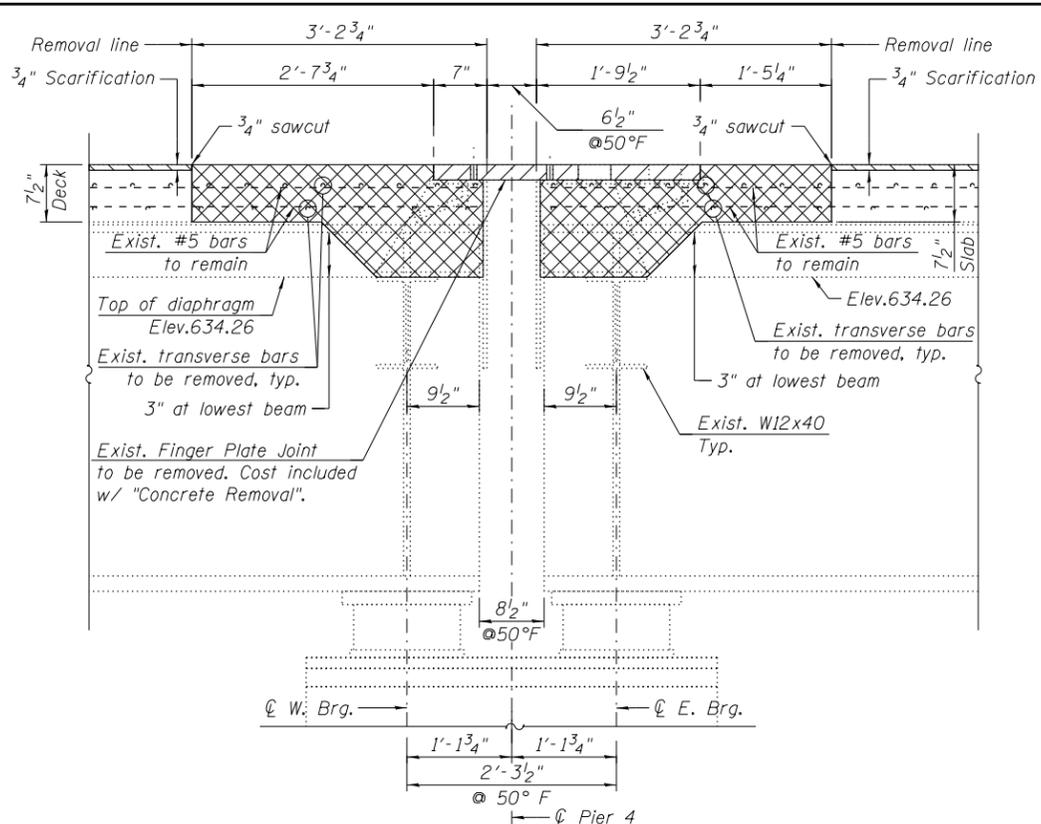
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PLOT SCALE =	CHECKED - MAI, MI	REVISED
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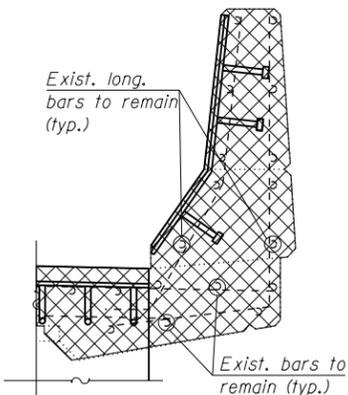
**PIER 4 FINGER PLATE JOINT PLAN AND ELEVATION
US ROUTE 30 OVER THE ROCK RIVER STRUCTURE NO. 098-0034**

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1198	(110 BRM)	WHITESIDE	34	21
CONTRACT NO. 64L09				
ILLINOIS FED. AID PROJECT				

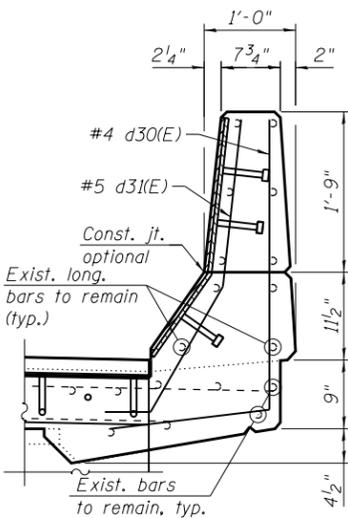
SHEET S-15 OF S-23 SHEETS



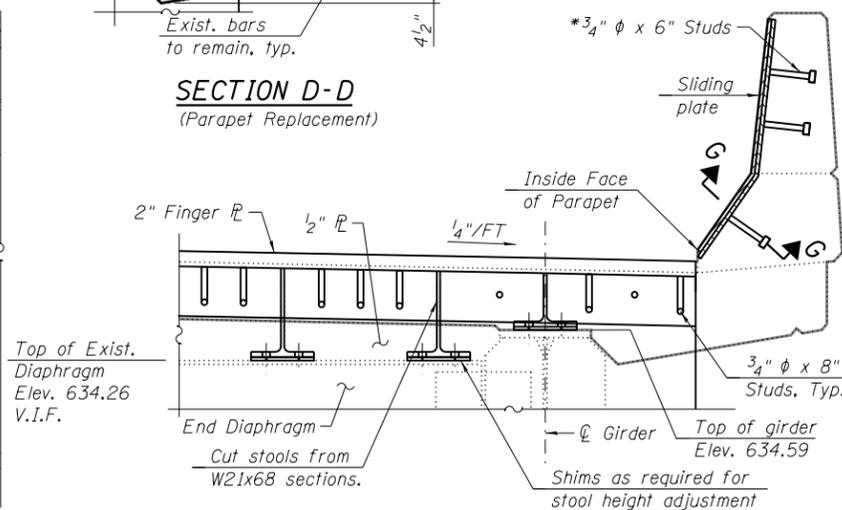
SECTION A-A



SECTION B-B
(Parapet Removal)



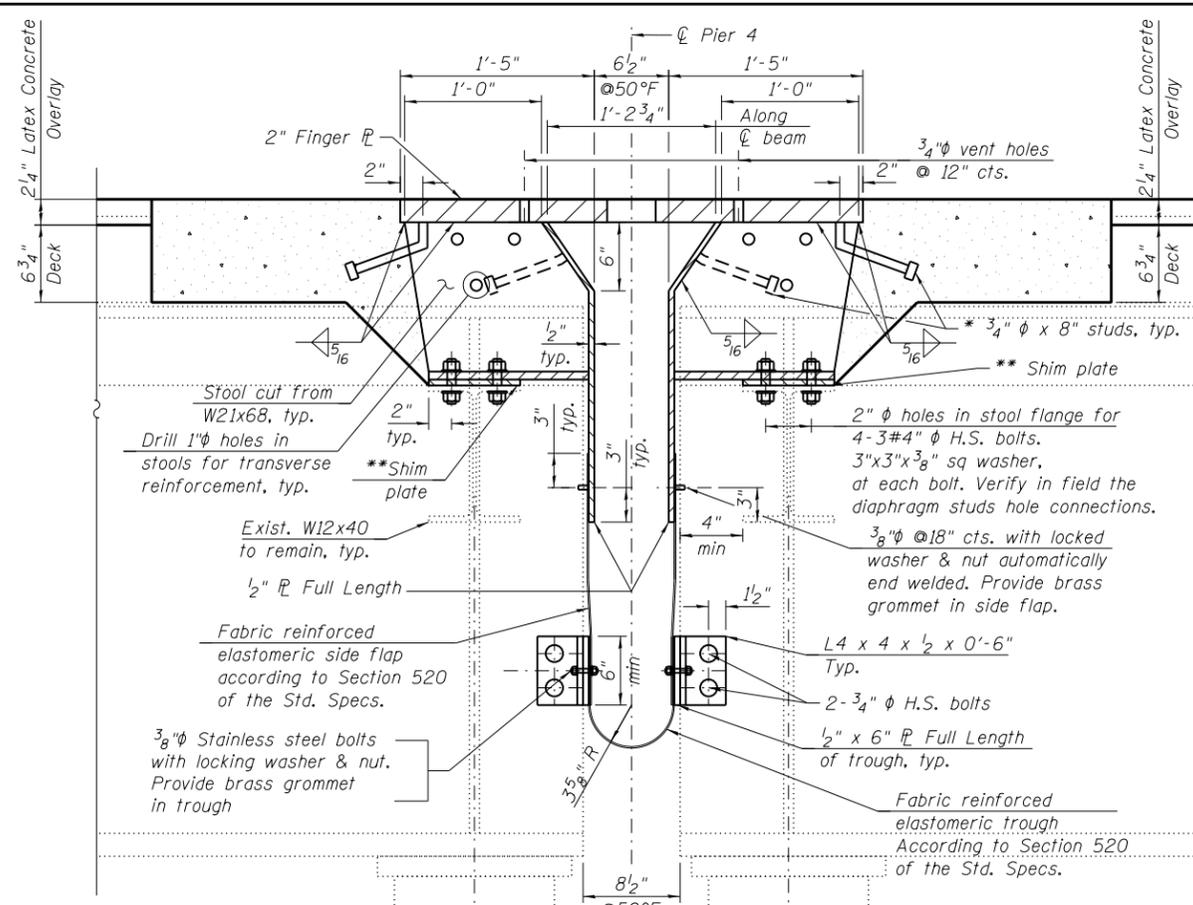
SECTION D-D
(Parapet Replacement)



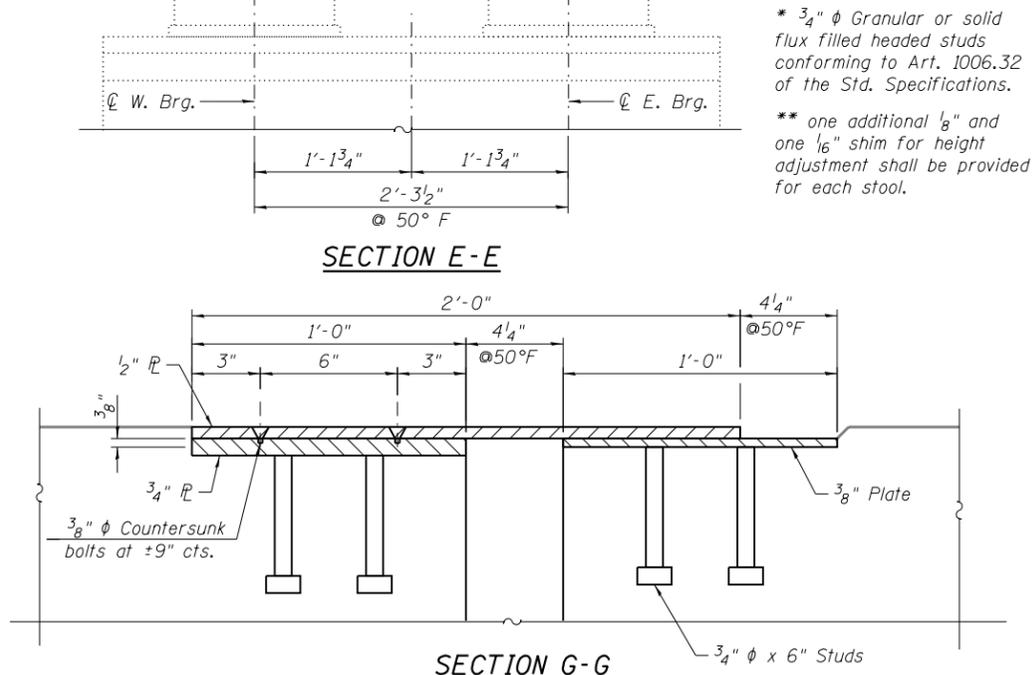
SECTION F-F

NOTE:

1. For Notes, see Sheet S-15.



SECTION E-E



SECTION G-G

LEGEND

- Concrete Removal
- Concrete Scarification
- V.I.F. Verify in field

1/22/2016 2:43:59 PM P:\1208-562 IDOT Various-Variabus (District 2)\Work Order 7\Sheets\Structural\S16-PlatJointSec1.dgn



USER NAME =	DESIGNED - MI, SK	REVISED
CHECKED - MAI, MI	REVISOR	
PLOT SCALE =	DRAWN - SK	REVISOR
PLOT DATE	DATE - 1/22/2016	REVISOR

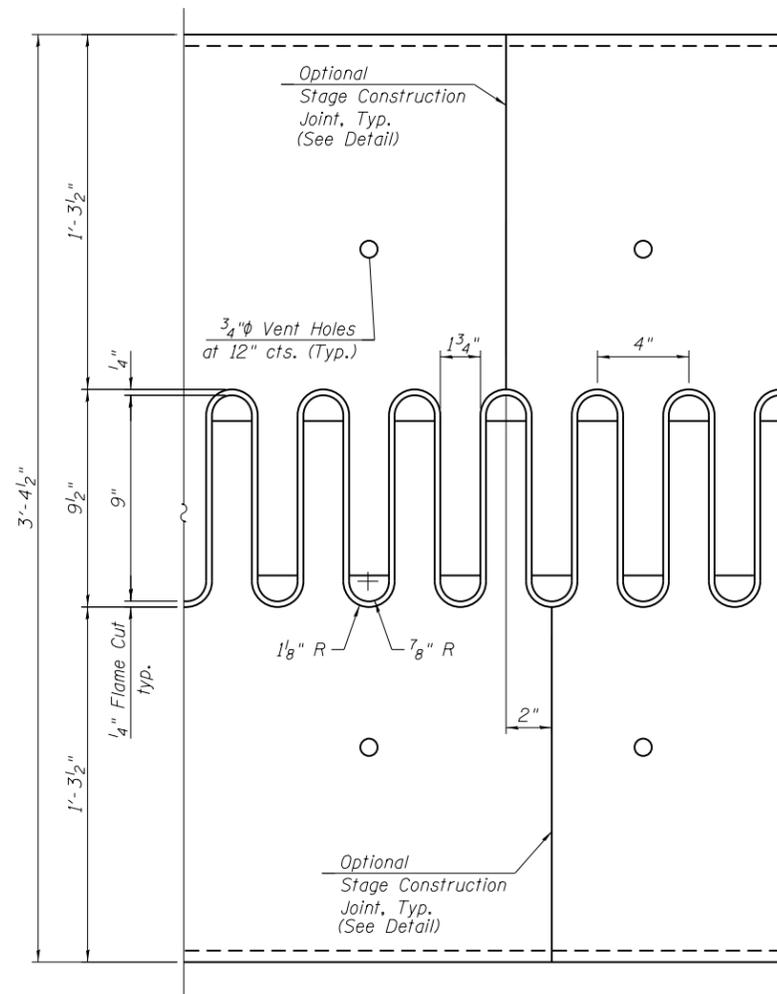
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIER 4 FINGER PLATE JOINT SECTIONS AND DETAILS (SHEET 1 OF 2)
US ROUTE 30 OVER THE ROCK RIVER STRUCTURE NO. 098-0034**

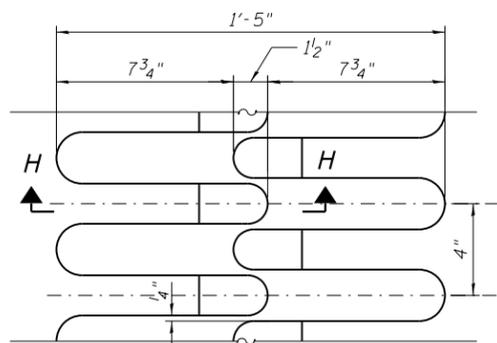
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1198	(110 BRM)	WHITESIDE	34	22
CONTRACT NO. 64L09				

SHEET S-16 OF S-23 SHEETS

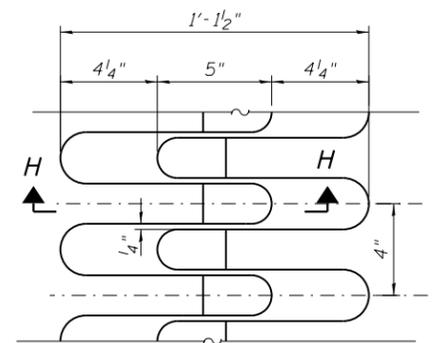
ILLINOIS FED. AID PROJECT



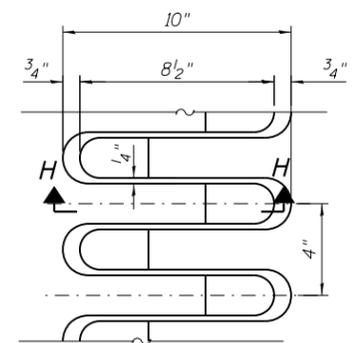
FLAME CUTTING DIAGRAM
Cut from \bar{P} 2"x40 1/2"x39'-11 1/2" (M270-Gr.50)



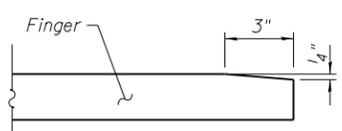
AT -30°F POSITION



AT NORMAL 50°F TEMPERATURE

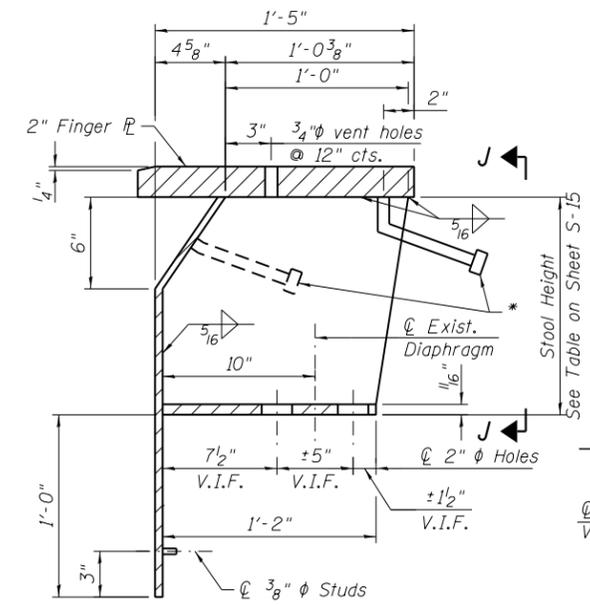


AT 130°F POSITION

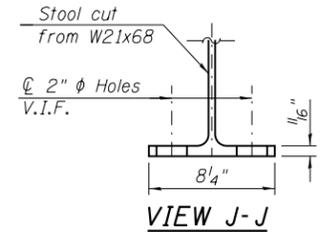


SECTION H-H
(Bevel Detail)

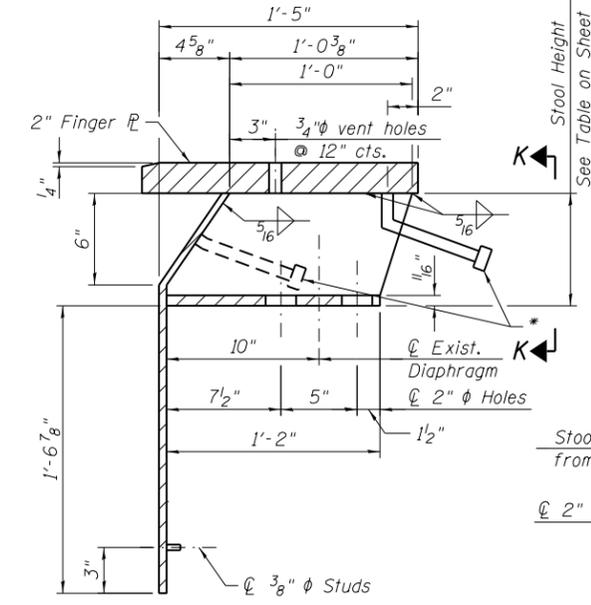
NOTE:
1. For Notes, see Sheet S-15.



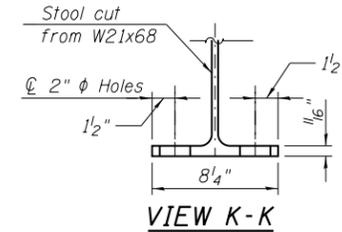
TYP. STOOL DETAIL OVER DIAPHRAGM



VIEW J-J

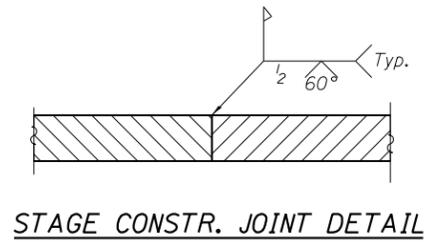


TYP. STOOL DETAIL OVER GIRDERS

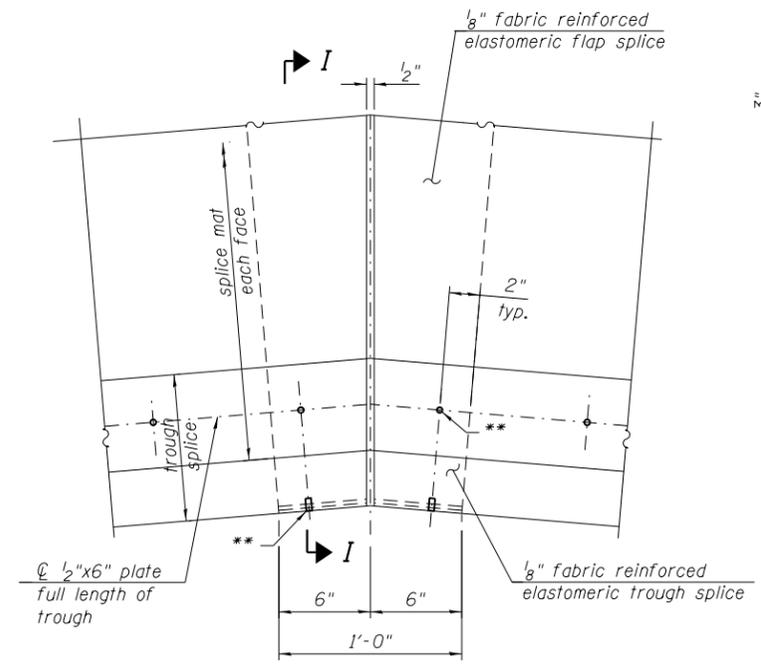


VIEW K-K

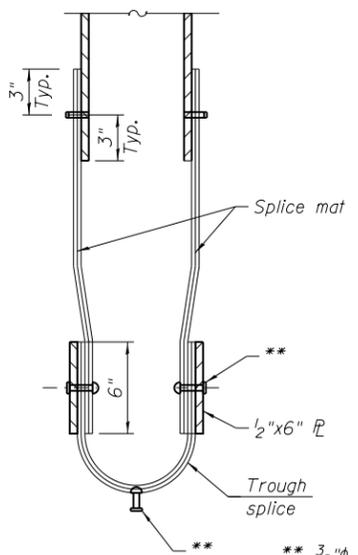
* 3/4" ϕ x 8" Granular or solid flux filled headed studs conforming to Art. 1006.32 of the Std. Specifications.



STAGE CONSTR. JOINT DETAIL



TROUGH SPLICE DETAIL



SECTION I-I

** 3/8" ϕ Stainless Steel bolts w/ washers & nuts. Provide brass grommet in trough.

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USER NAME =	DESIGNED - MI, SK	REVIS
CHECKED - MAI, MI	REVIS	
PLOT SCALE =	DRAWN - SK	REVIS
PLOT DATE =	DATE - 1/22/2016	REVIS

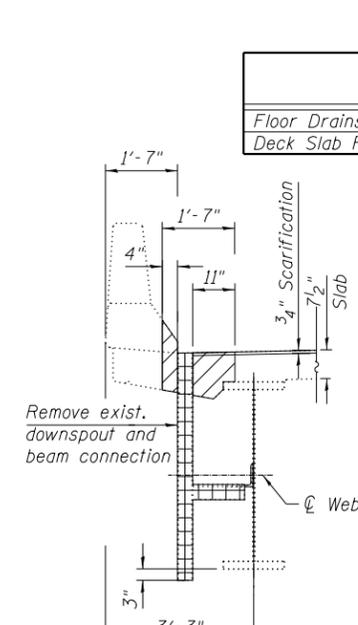
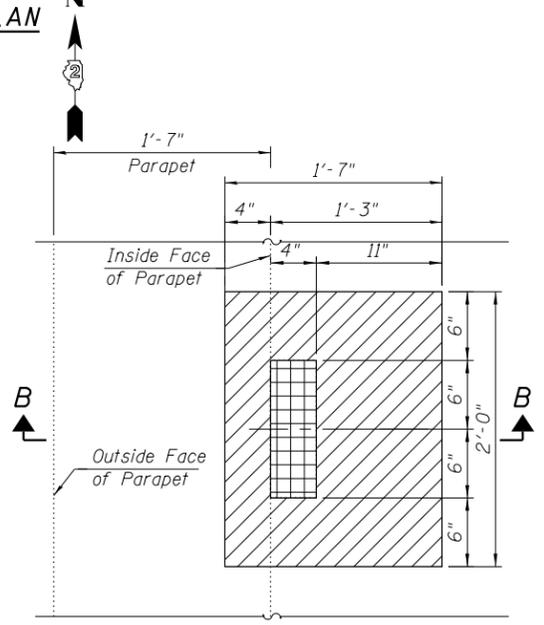
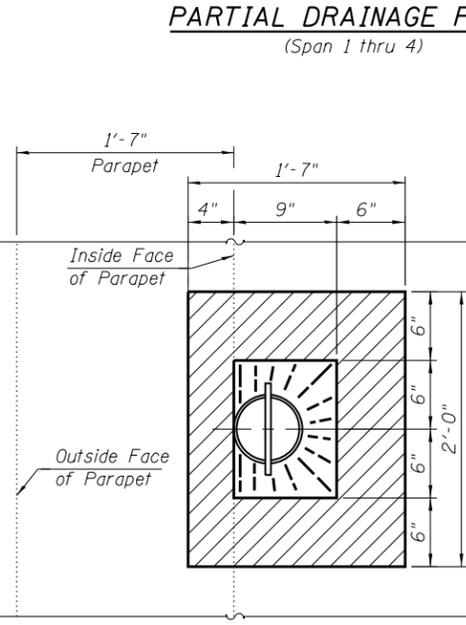
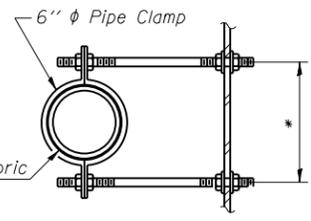
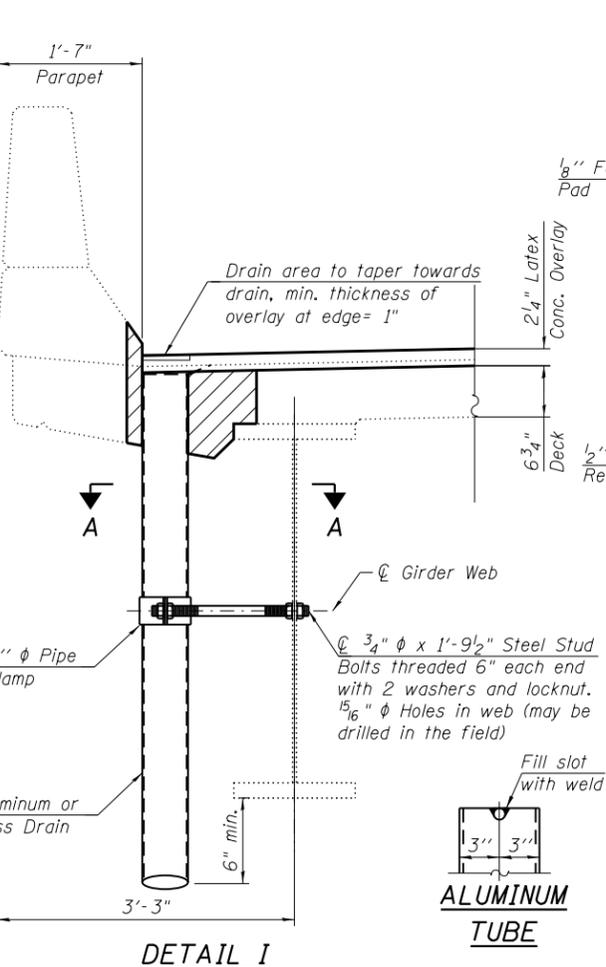
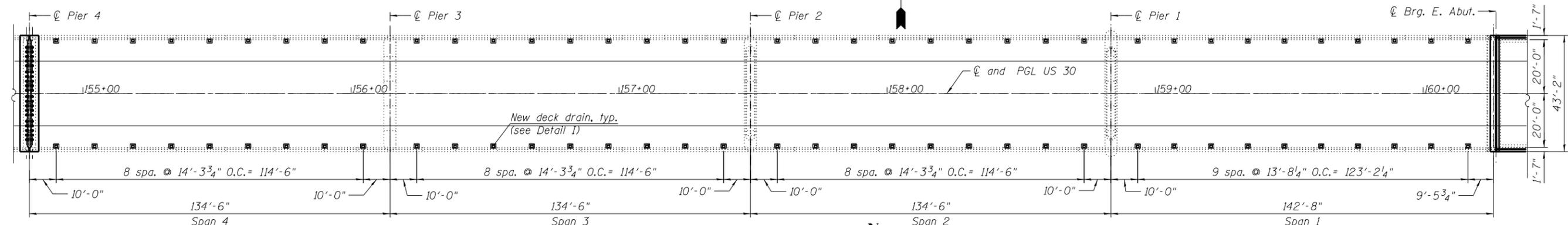
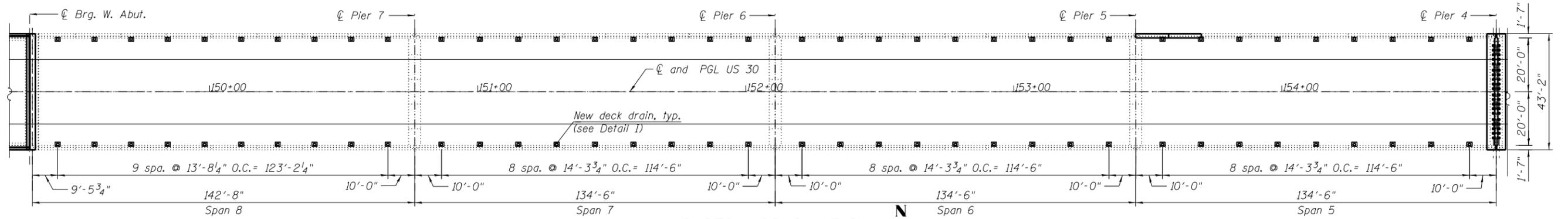
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 4 FINGER PLATE JOINT SECTIONS AND DETAILS (SHEET 2 OF 2)
US ROUTE 30 OVER THE ROCK RIVER STRUCTURE NO. 098-0034

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1198	(110 BRM	WHITESIDE	34	23
CONTRACT NO. 64L09				

SHEET S-17 OF S-23 SHEETS

ILLINOIS FED. AID PROJECT



BILL OF MATERIAL

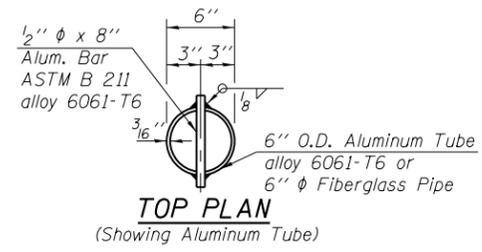
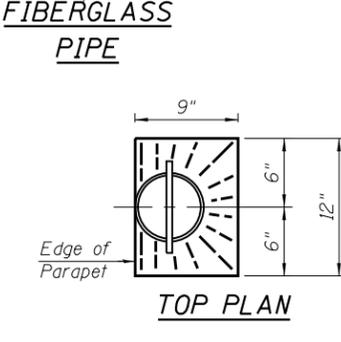
ITEM	UNIT	QUANTITY
Floor Drains	Each	148
Deck Slab Repair (Full depth, Type I)	Sq. Yd.	40

NOTES

- The exterior surfaces of the floor drains shall be painted with the finish coat as specified in the special provisions for Cleaning and Painting New Metal Structures. The exterior surfaces of the drains shall be cleaned according to Society of Protective Coatings Spec. SSPC-SP1 prior to painting.
- Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
- Galvanize clamping device according to AASHTO M232. Cost of clamping device and inserts is included with Floor Drains.
- For approach drain details see Roadway Plans.
- The cost for existing floor drain removal shall not be paid separately and shall be included with Floor Drain.
- The cost for parapet removal and replacement shall be included with Deck Slab Repair (Full Depth, Type I).

LEGEND

- Deck Slab Repair, (Full Depth, Type I)
- Existing Floor Drain Removal (See Note 5)



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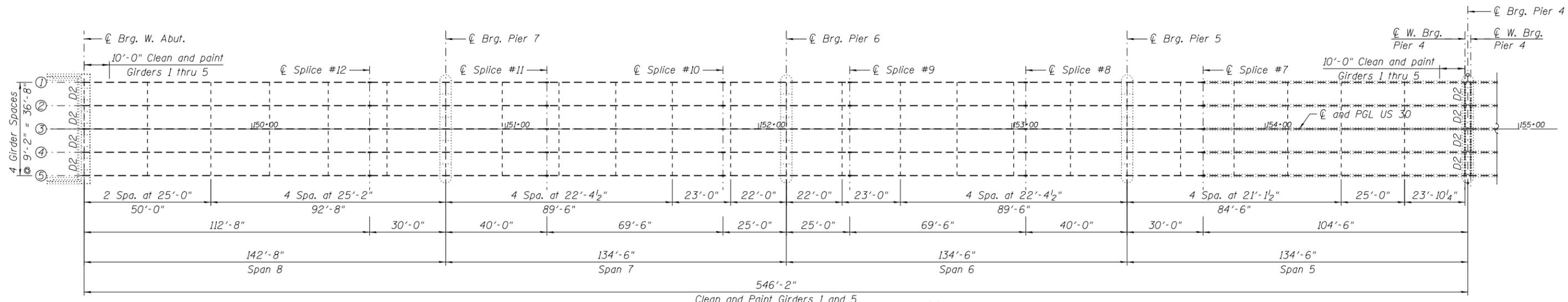
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PLOT SCALE =	CHECKED - MAI, MI	REVISED
PLOT DATE	DRAWN - MAA	REVISED
	DATE - 1/22/2016	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

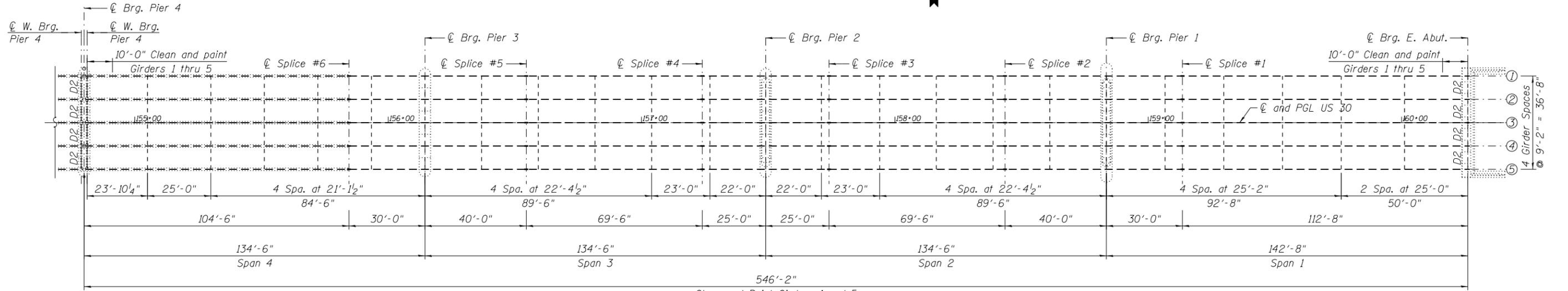
DRAINAGE PLAN AND DETAILS
US ROUTE 30 OVER THE ROCK RIVER STRUCTURE NO. 098-0034

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1198	(110 BRM)	WHITESIDE	34	24
CONTRACT NO. 64L09				
ILLINOIS FED. AID PROJECT				

SHEET S-18 OF S-23 SHEETS



PARTIAL FRAMING PLAN
(Spans 5 thru 8)



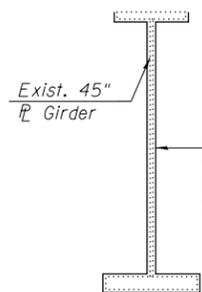
PARTIAL FRAMING PLAN
(Spans 1 thru 4)

BILL OF MATERIAL

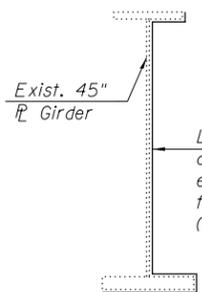
ITEM	UNIT	QUANTITY
Cleaning and Painting Structural Steel, Location 1	L Sum	1
Containment and Disposal of Non-Lead Paint Cleaning Residues	L Sum	1

NOTES:

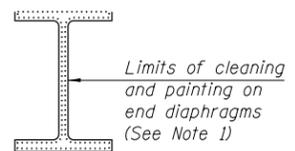
- Structural steel within the 10'-0" limits, near bearings shall be cleaned according to SSPC-SP10.
- Structural steel for fascia beams outside the 10'-0" limits, near bearings shall be cleaned according to SSPC-SP15.
- The Designated areas cleaned per Near White Blast Cleaning-SSPC-SP10 and per Commercial Grade Power Tool Cleaning-SSPC-SP15 shall be painted according to the requirement of Paint System 1-OZ/E/U. The color of the final finish coat shall be interstate Green, Munsell No. 7.5G 4/8.



TYP. INTERIOR AND EXTERIOR GIRDER
(Span 1 at E. Abut., Spans 4 & 5 at Pier 4 and Span 8 at W. Abut.)



TYP. EXTERIOR GIRDER
(Spans 1 thru 8)



TYP. W12x40 DIAPHRAGM
(Diaphragm D2 at Abutments & Pier 4)

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USER NAME =	DESIGNED - FA	REVISED
PLOT SCALE =	CHECKED - MAI, MI	REVISED
PLOT DATE =	DRAWN - FA	REVISED
	DATE - 1/22/2016	REVISED

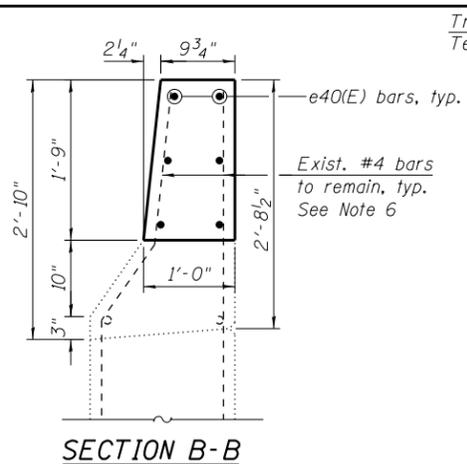
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRAMING PLAN AND PAINTING DETAILS
US ROUTE 30 OVER THE ROCK RIVER STRUCTURE NO. 098-0034

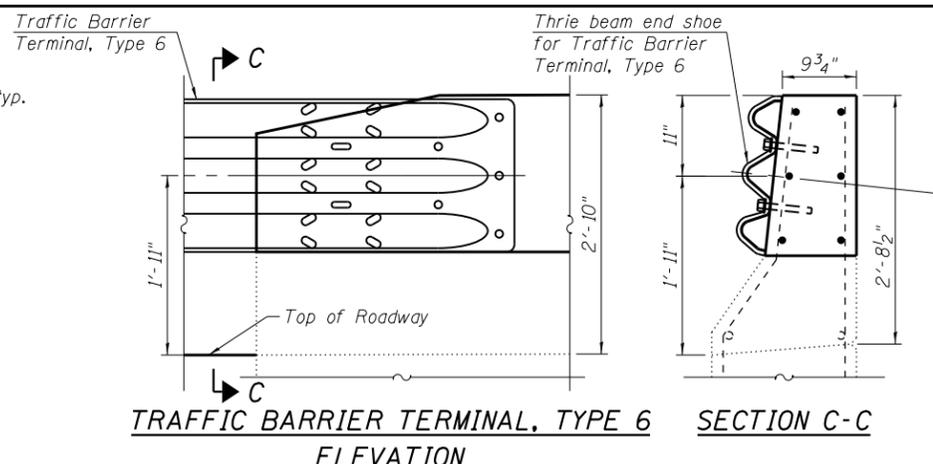
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1198	(110 BRM)	WHITESIDE	34	25
CONTRACT NO. 64L09				

SHEET S-19 OF S-23 SHEETS

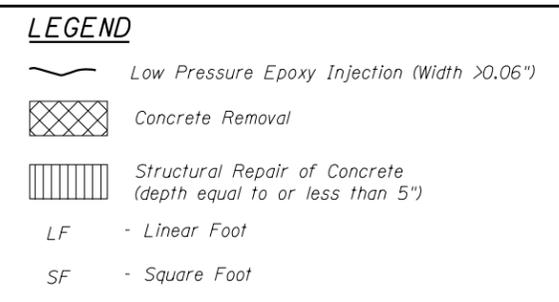
ILLINOIS FED. AID PROJECT



SECTION B-B



TRAFFIC BARRIER TERMINAL, TYPE 6 ELEVATION



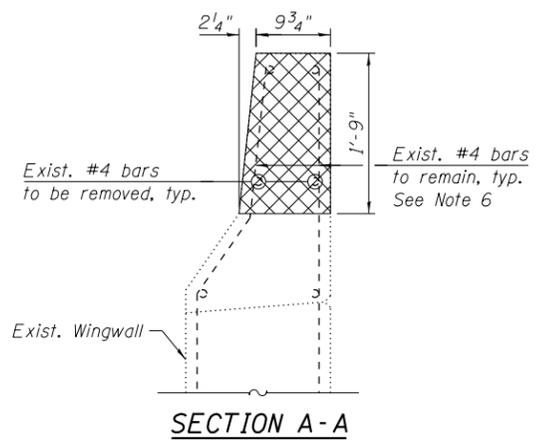
LEGEND

BILL OF MATERIAL

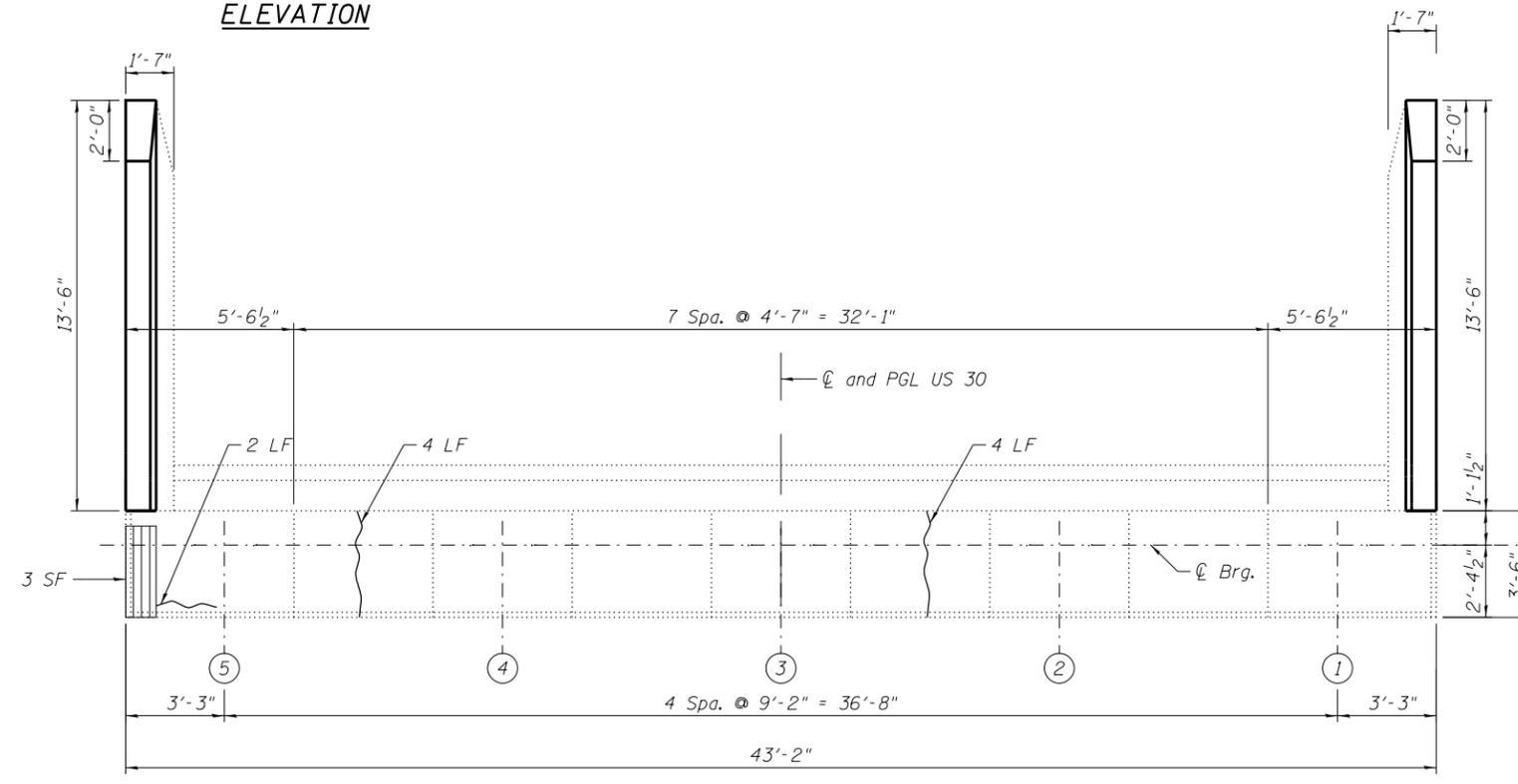
Bar	No.	Size	Length	Shape
e40(E)	12	#4	13'-1"	—
Concrete Removal			Cu. Yd.	1.6
Concrete Superstructure			Cu. Yd.	1.6
Reinforcement Bars, Epoxy Coated			Pound	105
Concrete Sealer			Sq. Ft.	535
Epoxy Crack Injection			Foot	69
Acrylic Coating			Sq. Yd.	20
Cleaning Bridge Seats			Sq. Ft.	151
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)			Sq. Ft.	10

NOTES:

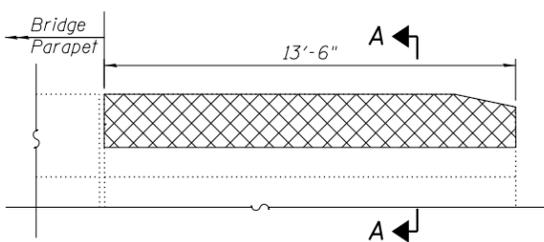
- For General Notes and Total Bill of Material, see Sheet S-03.
- Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired and the type(s) of repairs to be used will be determined by the engineer in the field at the time of construction.
- The Contractor is responsible to remove, support and reinstall all existing utilities interfering with the work. Cost shall be included with Structural Repair of Concrete (Depth Equal to or Less Than 5").
- Concrete Sealer shall be applied to the top bearing area and all exposed south face and ends of abutment.
- Acrylic coating shall be applied to front face, back face, and top of parapet.
- Existing reinforcement bars extending into the removal areas shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.
- For bridge railing quantities and details, see Roadway Plans.



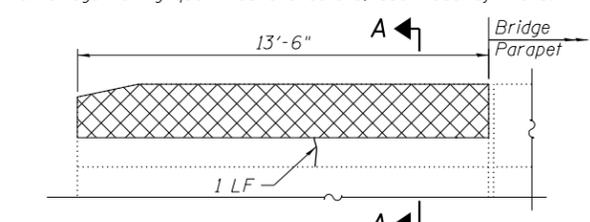
SECTION A-A



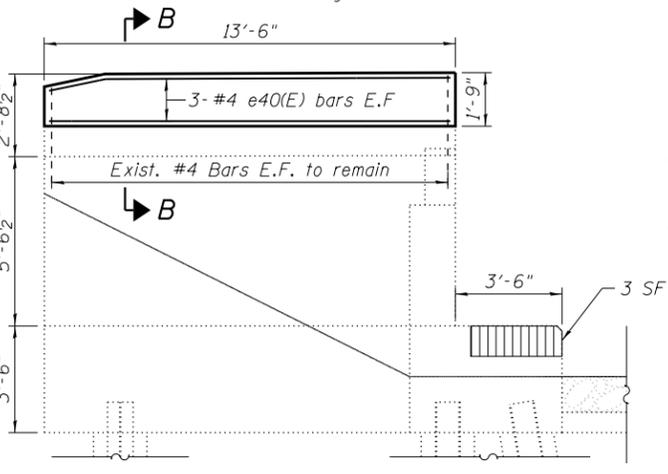
PLAN - WEST ABUTMENT



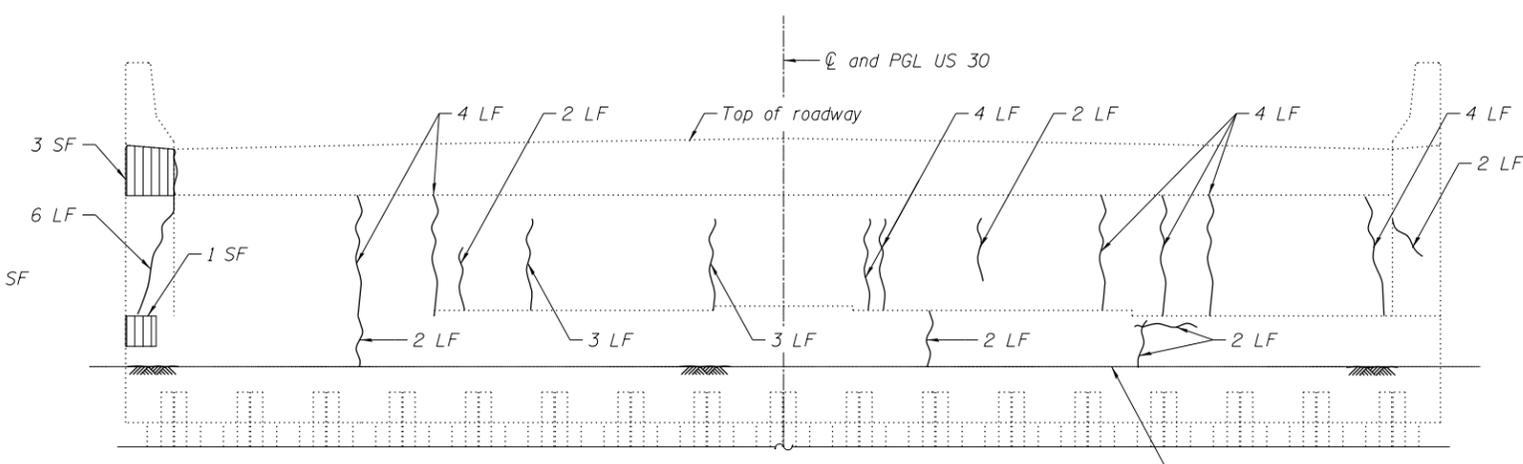
SOUTHWEST WINGWALL PARAPET (Looking South)



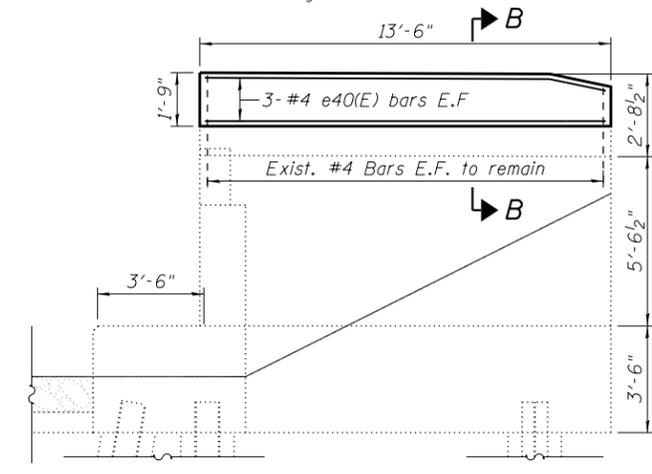
NORTHWEST WINGWALL PARAPET (Looking North)



SOUTHWEST WINGWALL (Looking North)



ELEVATION - WEST ABUTMENT (Looking West)



NORTHWEST WINGWALL (Looking South)

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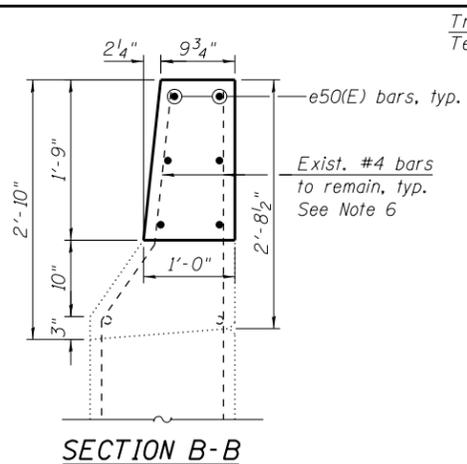
USER NAME =	DESIGNED - FA	REVISED
PLOT SCALE =	CHECKED - MAI, MI	REVISED
PLOT DATE	DRAWN - FA	REVISED
	DATE - 1/22/2016	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

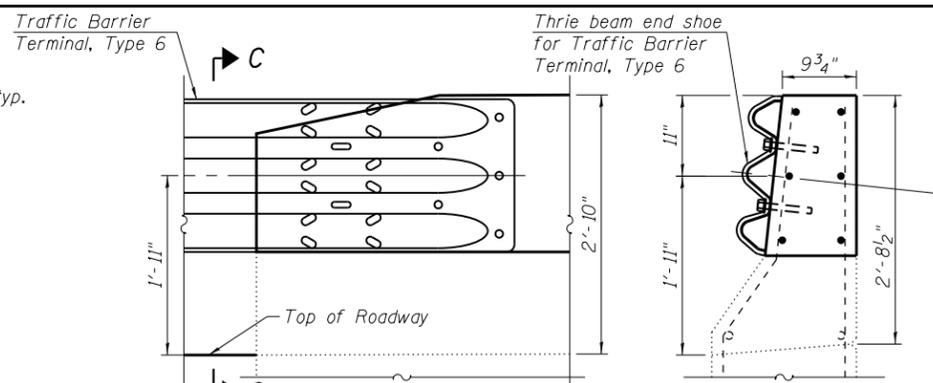
WEST ABUTMENT AND WINGWALLS REPAIRS
US ROUTE 30 OVER THE ROCK RIVER STRUCTURE NO. 098-0034

SHEET S-20 OF S-23 SHEETS

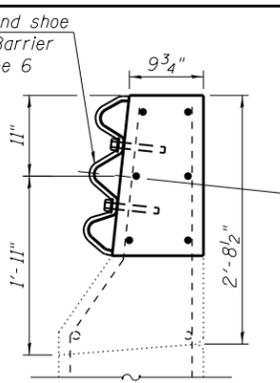
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1198	(110 BRM)	WHITESIDE	34	26
CONTRACT NO. 64L09			ILLINOIS FED. AID PROJECT	



SECTION B-B



TRAFFIC BARRIER TERMINAL, TYPE 6 ELEVATION



SECTION C-C

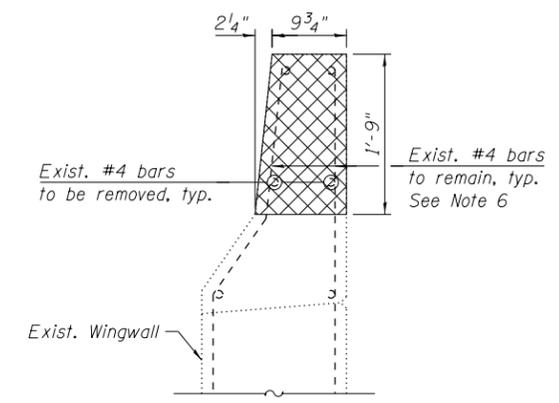
- LEGEND**
- Low Pressure Epoxy Injection (Width >0.06")
 - Concrete Removal
 - Structural Repair of Concrete (depth equal to or less than 5")
 - LF - Linear Foot
 - SF - Square Foot

BILL OF MATERIAL

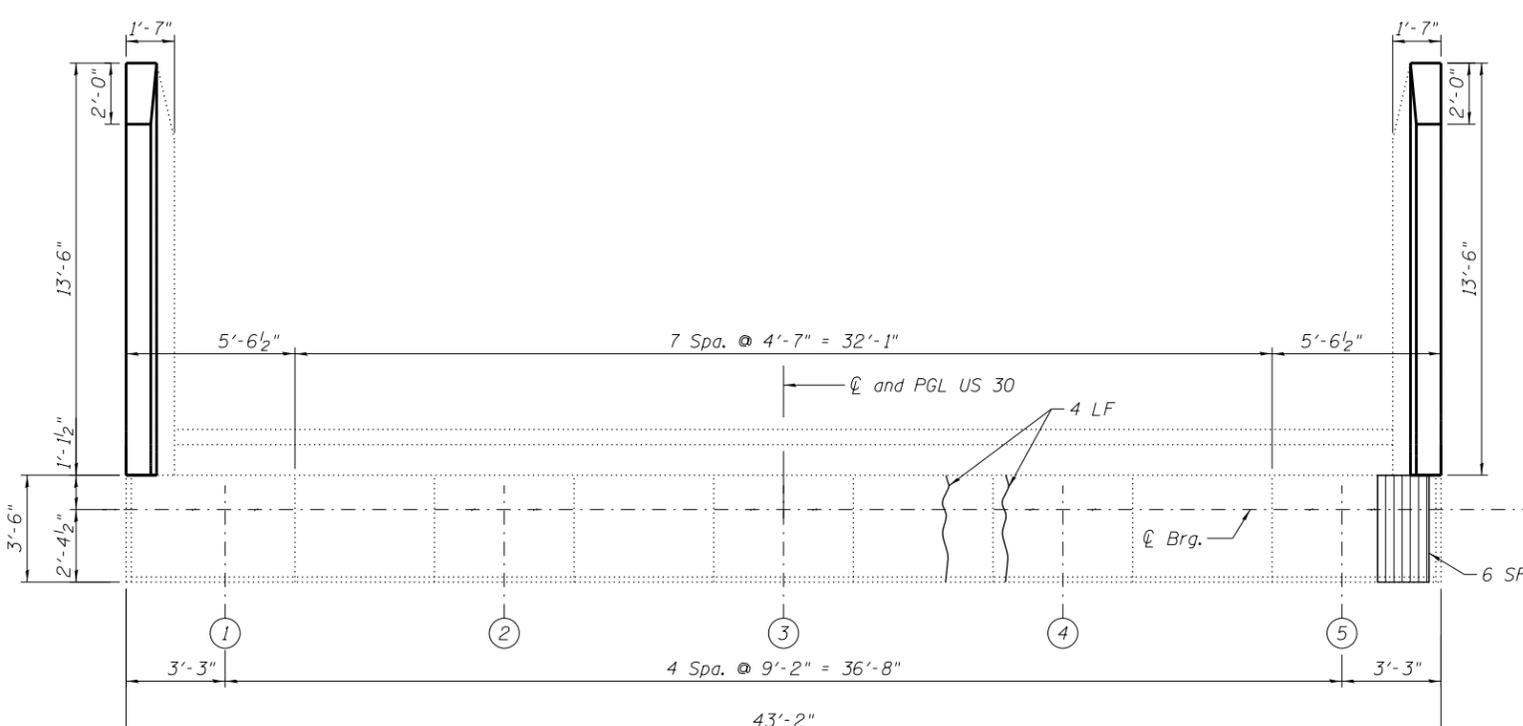
Bar	No.	Size	Length	Shape
e50(E)	12	#4	13'-1"	—
Concrete Removal			Cu. Yd.	1.6
Concrete Superstructure			Cu. Yd.	1.6
Reinforcement Bars, Epoxy Coated			Pound	105
Concrete Sealer			Sq. Ft.	535
Epoxy Crack Injection			Foot	43
Acrylic Coating			Sq. Yd.	20
Cleaning Bridge Seats			Sq. Ft.	151
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)			Sq. Ft.	6

NOTES:

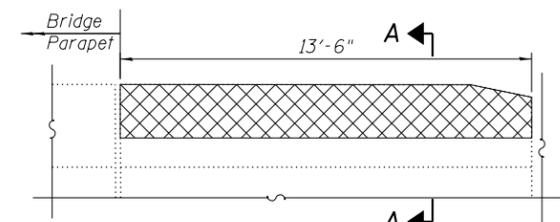
1. For General Notes and Total Bill of Material, see Sheet S-03.
2. Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired and the type(s) of repairs to be used will be determined by the engineer in the field at the time of construction.
3. The Contractor is responsible to remove, support and reinstall all existing utilities interfering with the work. Cost shall be included with Structural Repair of Concrete (Depth Equal to or Less Than 5").
4. Concrete Sealer shall be applied to the top bearing area and all exposed south face and ends of abutment.
5. Acrylic coating shall be applied to front face, back face, and top of parapet.
6. Existing reinforcement bars extending into the removal areas shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.
7. For bridge railing quantities and details, see Roadway Plans.



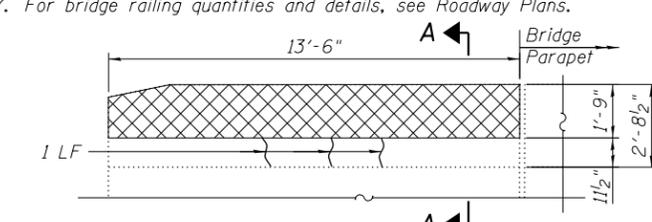
SECTION A-A



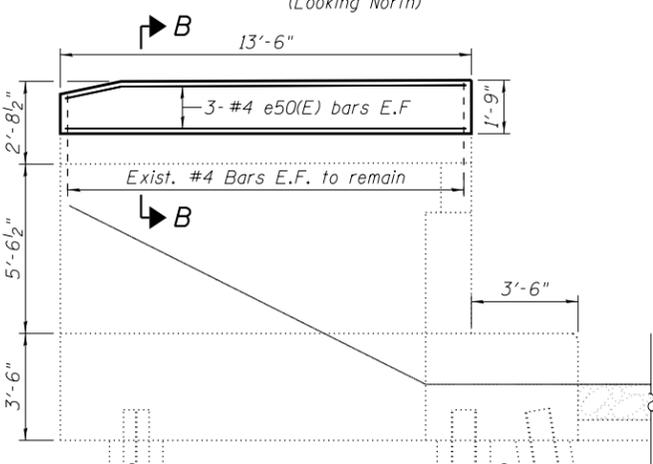
PLAN - EAST ABUTMENT



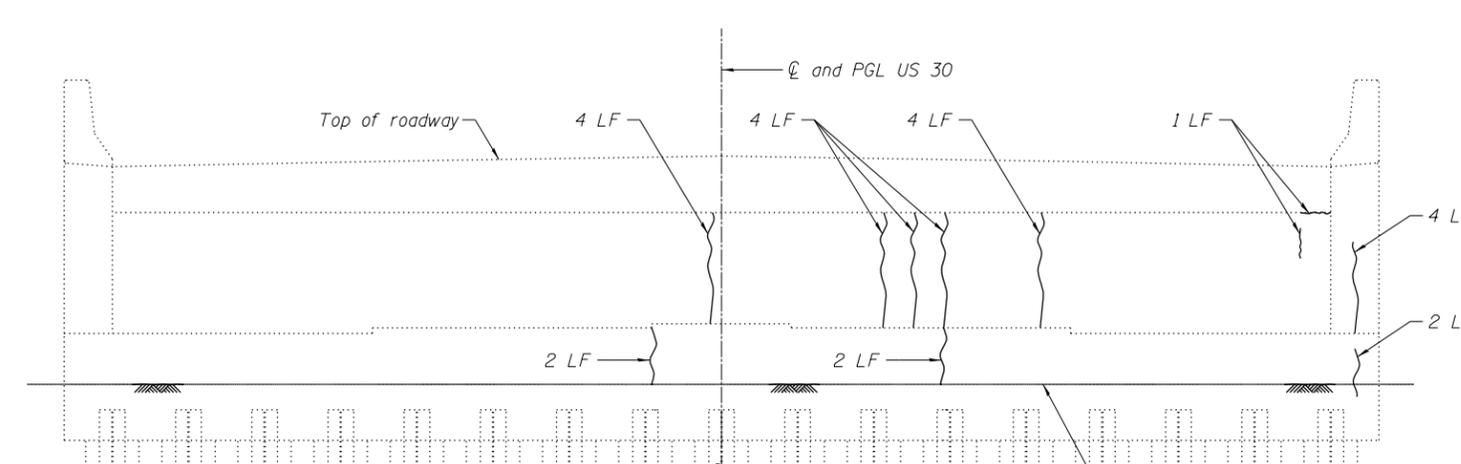
NORTHEAST WINGWALL PARAPET (Looking North)



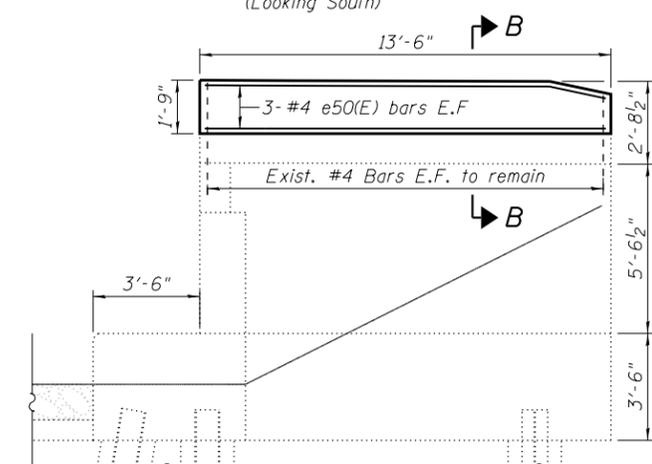
SOUTHEAST WINGWALL PARAPET (Looking South)



NORTHEAST WINGWALL (Looking South)



ELEVATION - EAST ABUTMENT (Looking East)



SOUTHEAST WINGWALL (Looking North)

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USER NAME =	DESIGNED - FA	REVISED
CHECKED - MAI, MI	REVISIONS	
PLOT SCALE =	DRAWN - FA	REVISIONS
PLOT DATE	DATE - 1/22/2016	REVISIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT AND WINGWALLS REPAIRS
US ROUTE 30 OVER THE ROCK RIVER STRUCTURE NO. 098-0034

SHEET S-21 OF S-23 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1198	(110 BRM	WHITESIDE	34	27
CONTRACT NO. 64L09			ILLINOIS FED. AID PROJECT	

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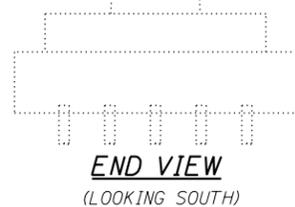
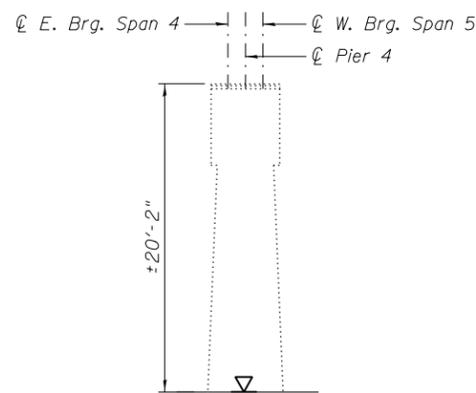
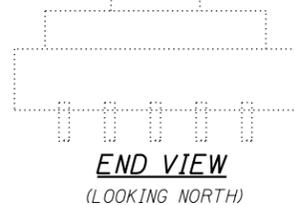
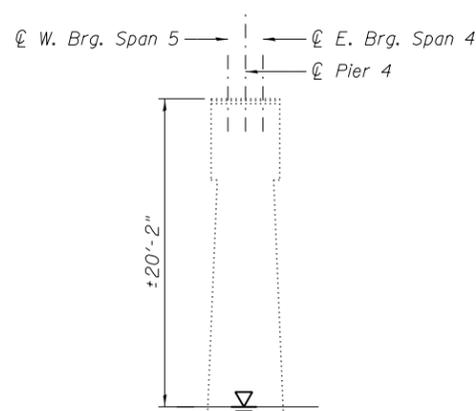
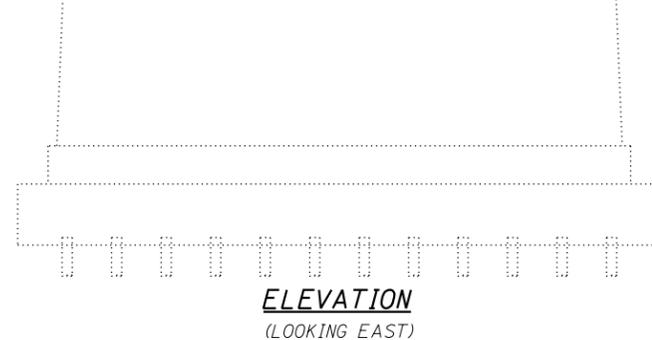
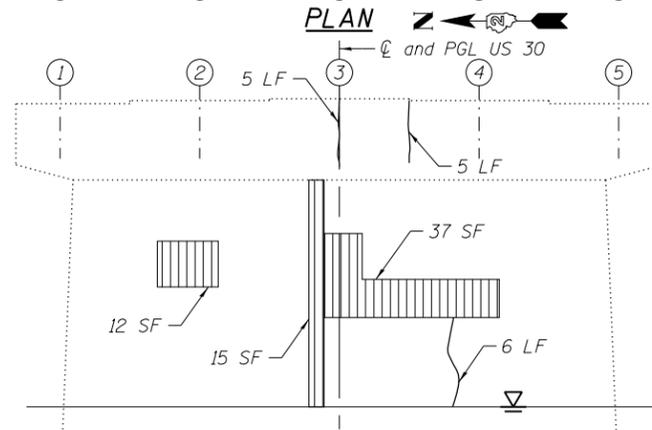
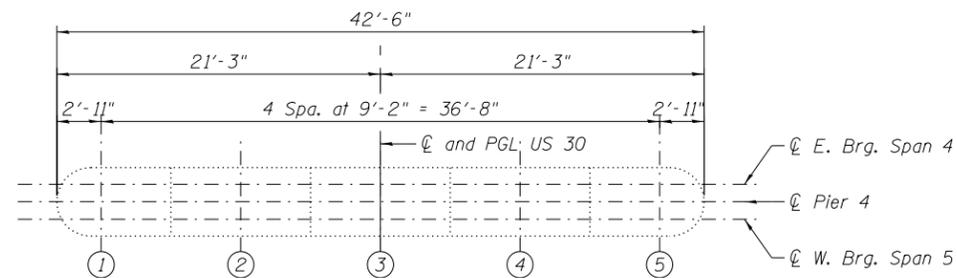
ITEM	UNIT	QUANTITY
Concrete Sealer	Sq. Ft.	1853
Epoxy Crack Injection	Foot	40
Cleaning Bridge Seats	Sq. Ft.	187
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	75

NOTES

- For General Notes and Total Bill of Material, see Sheet S-03.
- Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired and the type(s) of repairs to be used will be determined by the Engineer in the field at the time of construction.
- The Contractor is responsible to remove, support and reinstall all existing utilities interfering with the work. Cost shall be included with Structural Repair of Concrete (Depth Equal to or Less Than 5").
- Concrete Sealer shall be applied to the top bearing area and all exposed faces of pier 4.

LEGEND

-  Low Pressure Epoxy Injection (Width >0.06")
-  Structural Repair of Concrete (Depth equal to or less than 5")
- LF - Linear Foot
- SF - Square Foot



1/22/2016 2:44:02 PM P:\1208-562\DOT Various-Variou (District 2)\Work Order 7\Sheets\Structural\S22-Pier4Repair.dgn



USER NAME =	DESIGNED - FA	REVISED
PLOT SCALE =	CHECKED - MAI, MI	REVISED
PLOT DATE =	DRAWN - FA	REVISED
	DATE - 1/22/2016	REVISED

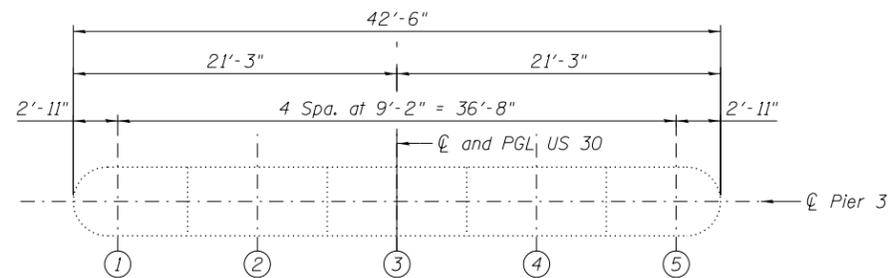
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIER 4 REPAIRS
US ROUTE 30 OVER THE ROCK RIVER STRUCTURE NO. 098-0034**

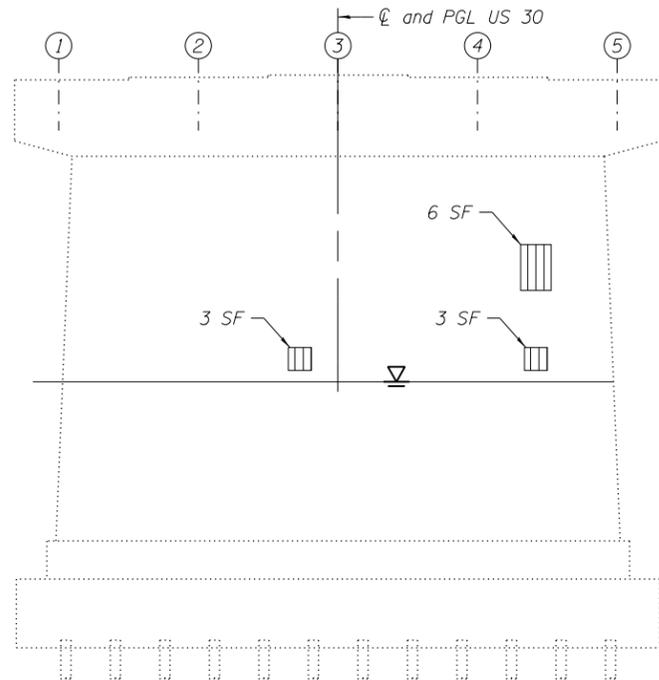
SHEET S-22 OF S-23 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1198	(110 BRM)	WHITESIDE	34	28
				CONTRACT NO. 64L09

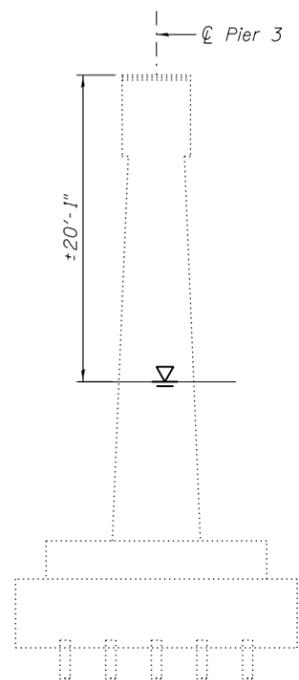
ILLINOIS FED. AID PROJECT



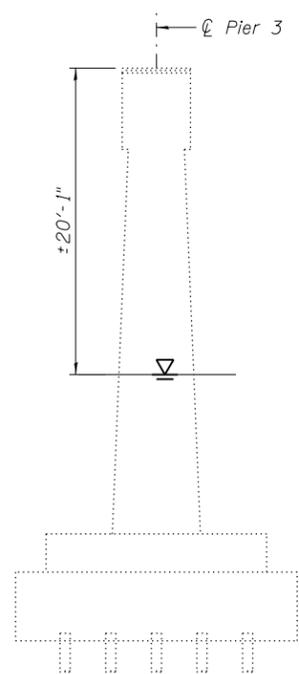
PLAN



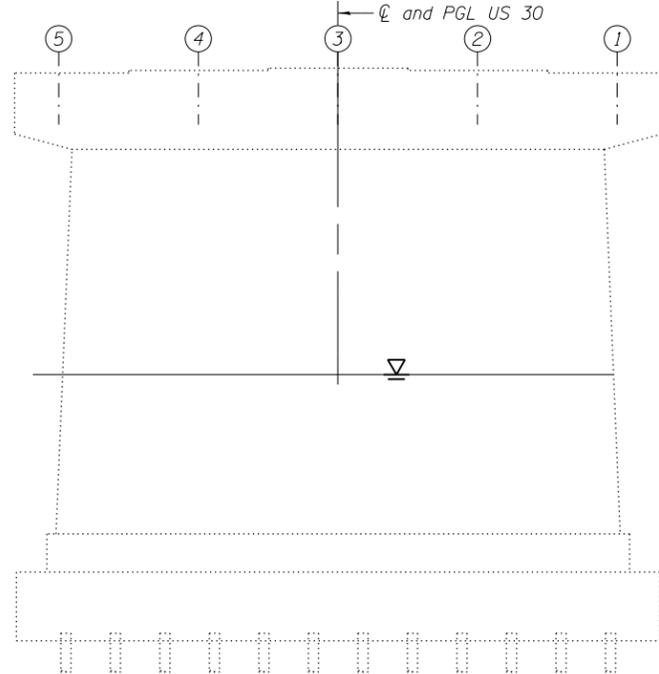
PIER 3 ELEVATION
(LOOKING EAST)



END VIEW
(LOOKING NORTH)



END VIEW
(LOOKING SOUTH)



PIER 3 ELEVATION
(LOOKING WEST)

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	12

NOTES

- For General Notes and Total Bill of Material, see Sheet S-03.
- Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired and the type(s) of repairs to be used will be determined by the Engineer in the field at the time of construction.
- The Contractor is responsible to remove, support and reinstall all existing utilities interfering with the work. Cost shall be included with Structural Repair of Concrete (Depth Equal to or Less Than 5").

LEGEND

- Structural Repair of Concrete (Depth equal to or less than 5")
- SF - Square Foot

1/22/2016 2:44:03 PM P:\1208-562\DOT Various-Variou (District 2)\Work Order 7\Sheets\Structural\S23-Pier3Repair.dgn



USER NAME =	DESIGNED - FA	REVISED
	CHECKED - MAI, MI	REVISED
PLOT SCALE =	DRAWN - FA	REVISED
PLOT DATE =	DATE - 1/22/2016	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

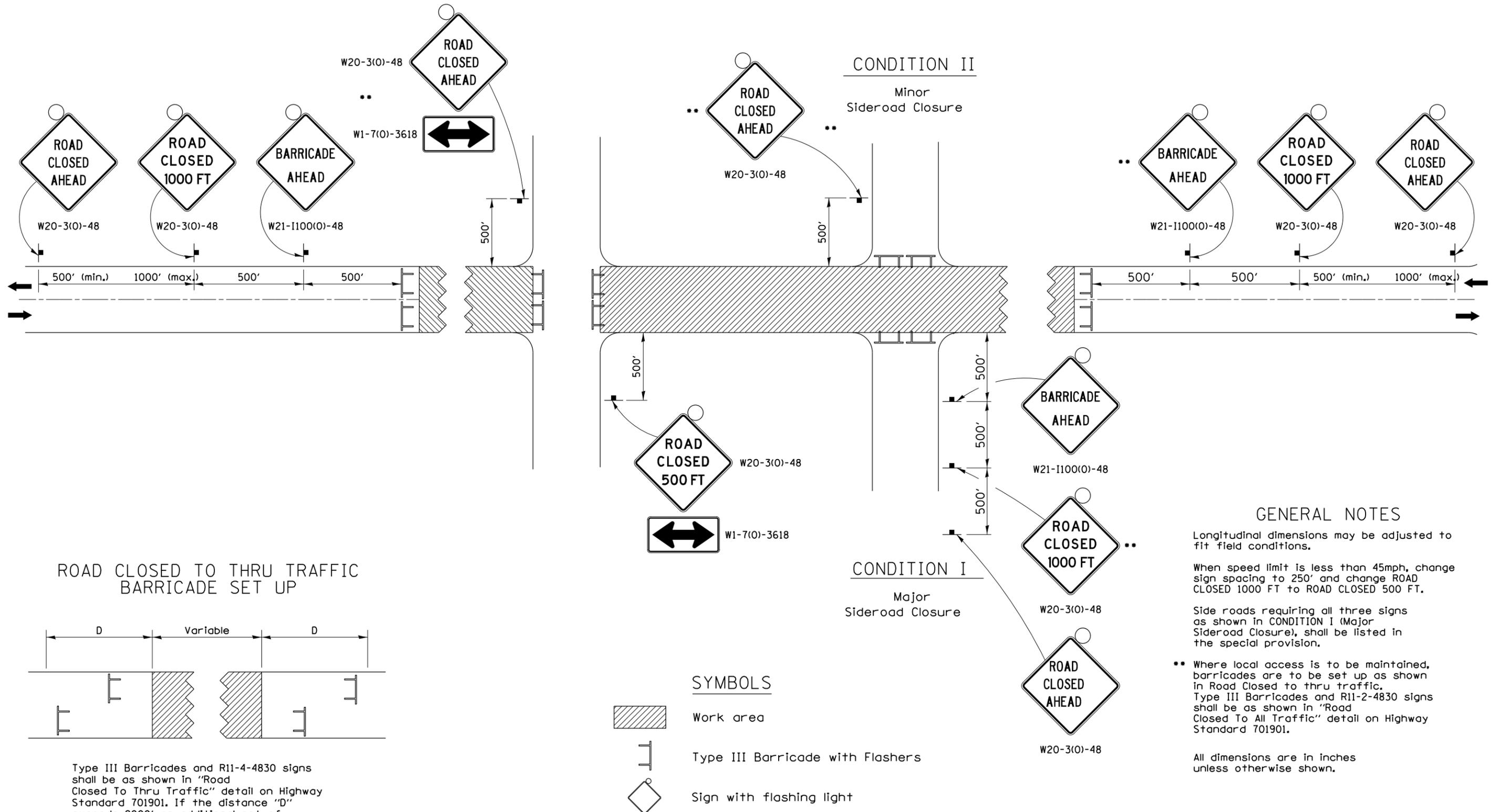
**PIER 3 REPAIRS
US ROUTE 30 OVER THE ROCK RIVER STRUCTURE NO. 098-0034**

SHEET S-23 OF S-23 SHEETS

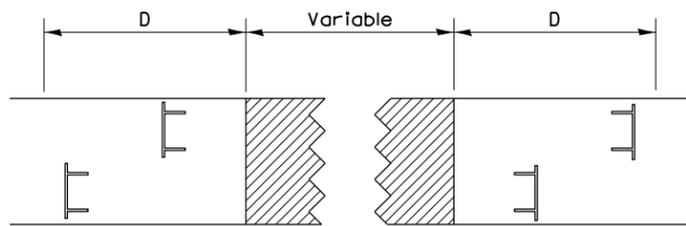
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1198	(110 BRM)	WHITESIDE	34	29
				CONTRACT NO. 64L09

ILLINOIS FED. AID PROJECT

TRAFFIC CONTROL FOR ROAD CLOSURE



ROAD CLOSED TO THRU TRAFFIC BARRICADE SET UP



Type III Barricades and R11-4-4830 signs shall be as shown in "Road Closed To Thru Traffic" detail on Highway Standard 701901. If the distance "D" exceeds 2000' an additional set of barricades and R11-4-4830 shall be placed at each end of the work area.

GENERAL NOTES

Longitudinal dimensions may be adjusted to fit field conditions.

When speed limit is less than 45mph, change sign spacing to 250' and change ROAD CLOSED 1000 FT to ROAD CLOSED 500 FT.

Side roads requiring all three signs as shown in CONDITION I (Major Sideroad Closure), shall be listed in the special provision.

** Where local access is to be maintained, barricades are to be set up as shown in Road Closed to thru traffic. Type III Barricades and R11-2-4830 signs shall be as shown in "Road Closed To All Traffic" detail on Highway Standard 701901.

All dimensions are in inches unless otherwise shown.

TYPICAL APPLICATION FOR ROAD CLOSURE

FILE NAME =	USER NAME = lisa.buntin	DESIGNED -	REVISED - 8-27-13
P:\1208-562 100T Various-Variou (District	2)\Work Order 7\Sheets\Civil\0XXXX-300\Std	DRAWN -	REVISED - 10-17-11
		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

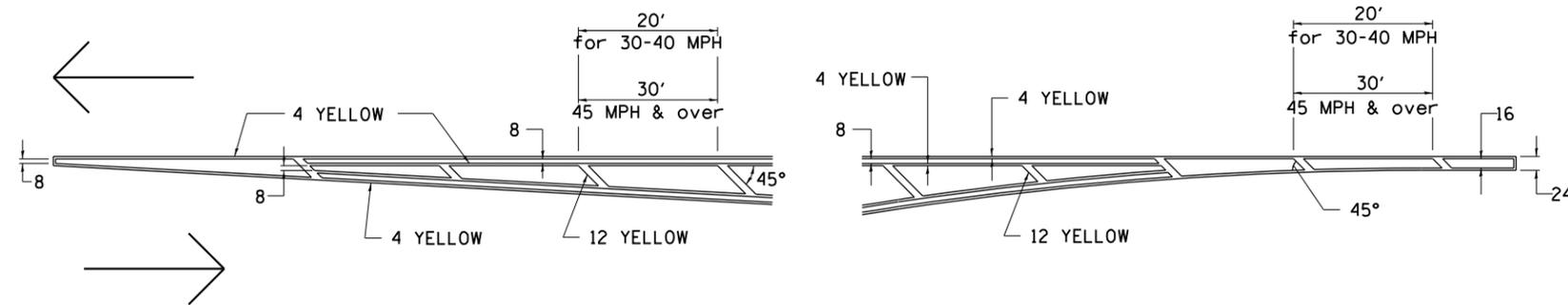
REGION 2 / DISTRICT 2 STANDARD 40.1
TRAFFIC CONTROL FOR ROAD CLOSURE

SCALE: SHEET NO. OF SHEETS STA. TO STA.

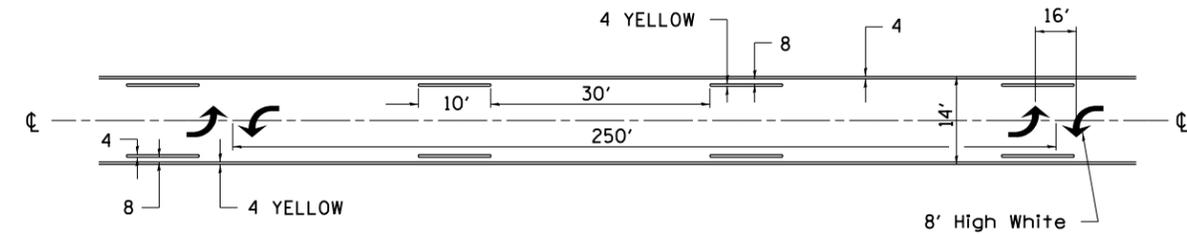
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1198	(100 BRIM	WHITESIDE	34	30
CONTRACT NO. 64L09				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

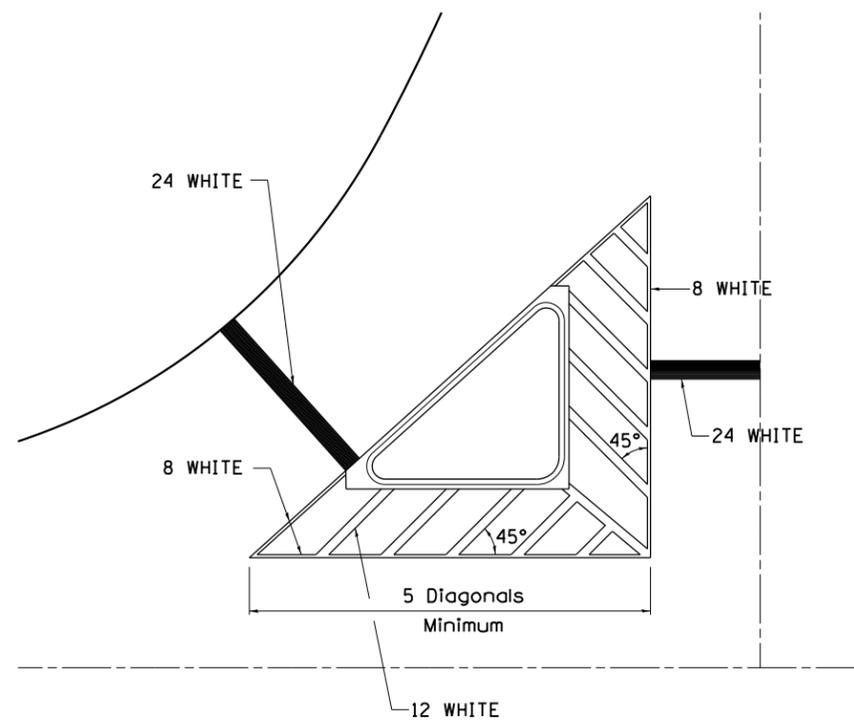


MEDIAN PAVEMENT MARKING



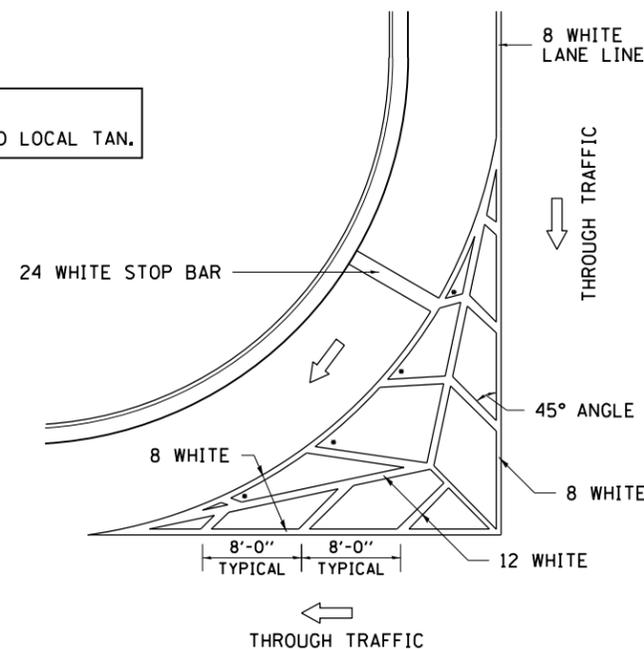
•• ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH



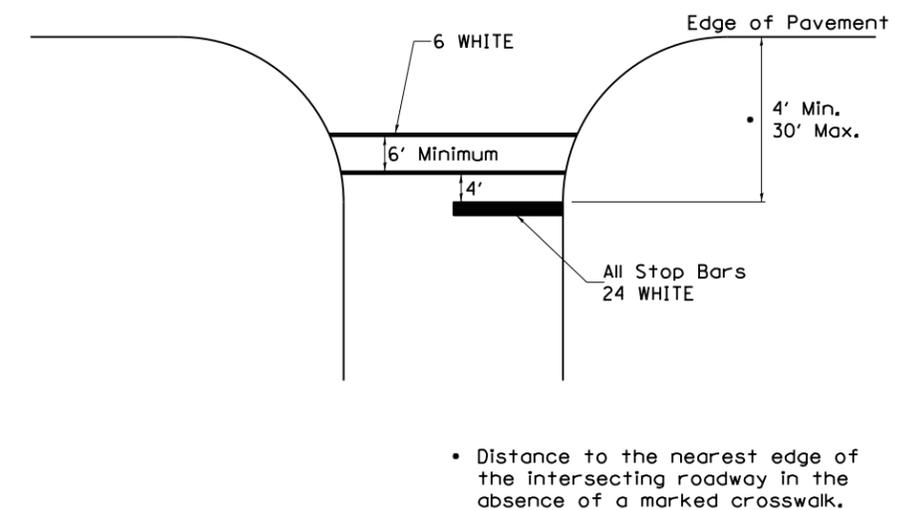
TYPICAL MARKING FOR PAINTED ISLANDS

NOTE:
* 45° TO LOCAL TAN.



STANDARD CROSSWALK MARKING

See Schedules for Locations



• Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

FILE NAME =	USER NAME = lisa.buntin	DESIGNED -	REVISED - 6-27-14
P:\1208-562 IDOT Various-Variou (District	2)\Work Order 7\Sheets\Civil\0XXXXX-3\DistS	DRAWN = M1.1-1of3.dgn	REVISED - 3-05-12
PLOT SCALE = 100:0.0000 ' / in.	CHECKED -	REVIS	REVISED -
PLOT DATE = 1/22/2016	DATE -	REVIS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

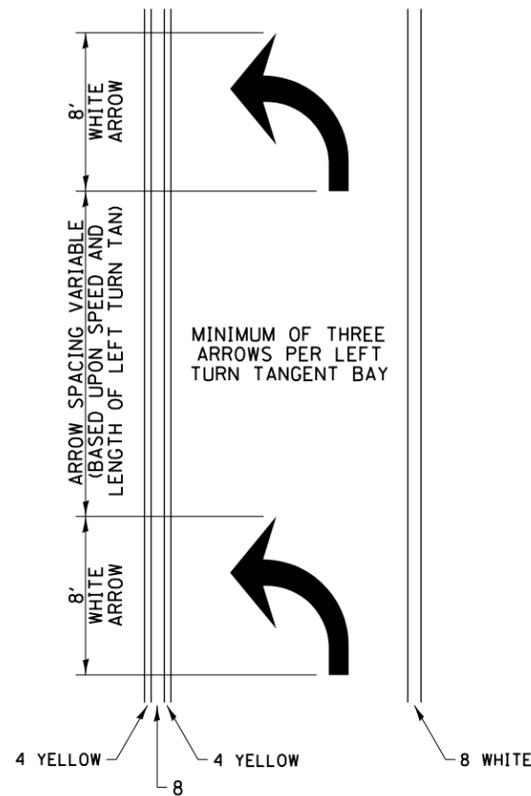
REGION 2 / DISTRICT 2 STANDARD 41.1
TYPICAL PAVEMENT MARKINGS

SCALE: SHEET NO. 1 OF 3 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1198	(110 BRM)	WHITESIDE	34	31
CONTRACT NO. 64L09				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TYPICAL PAVEMENT MARKINGS

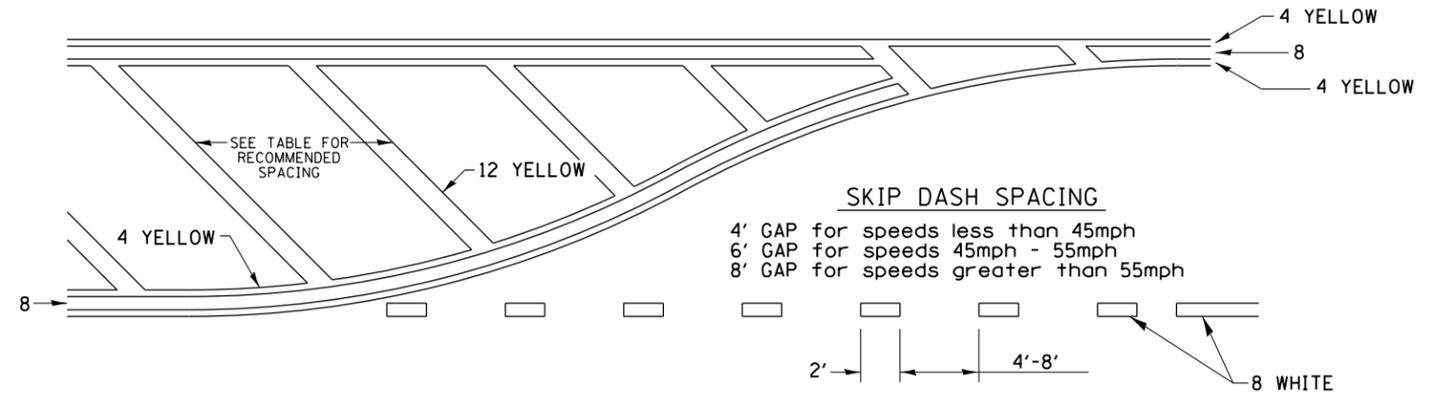
ARROW LAYOUT



- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

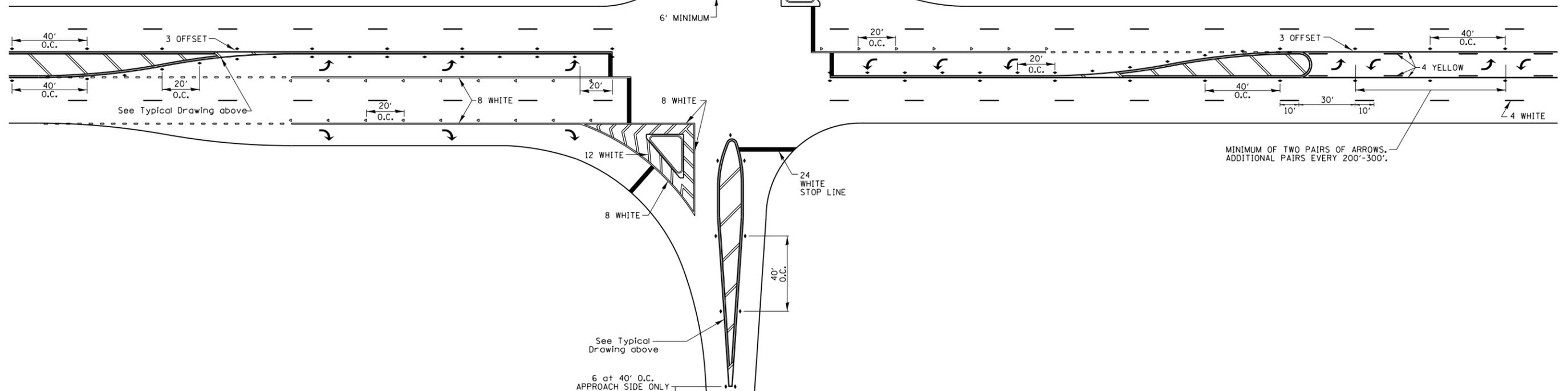
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 30MPH	50'	15'	10'
30-40MPH	75'	20'	15'
45MPH & over	75'	30'	20'

NOTE: if the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.



FILE NAME =	USER NAME = lisa.buntin	DESIGNED -	REVISED - 6-27-14
P:\1208-562 IDOT Various-Variou (District	2\Work Order 7\Sheets\Civil\DXXXX-32Dist	DRAWN 41.1-2of3.dgn	REVISED - 3-05-12
PLOT SCALE = 100:0.0000 ' / in.	CHECKED -	REVIS	REVISED -
PLOT DATE = 1/22/2016	DATE -	REVISED -	

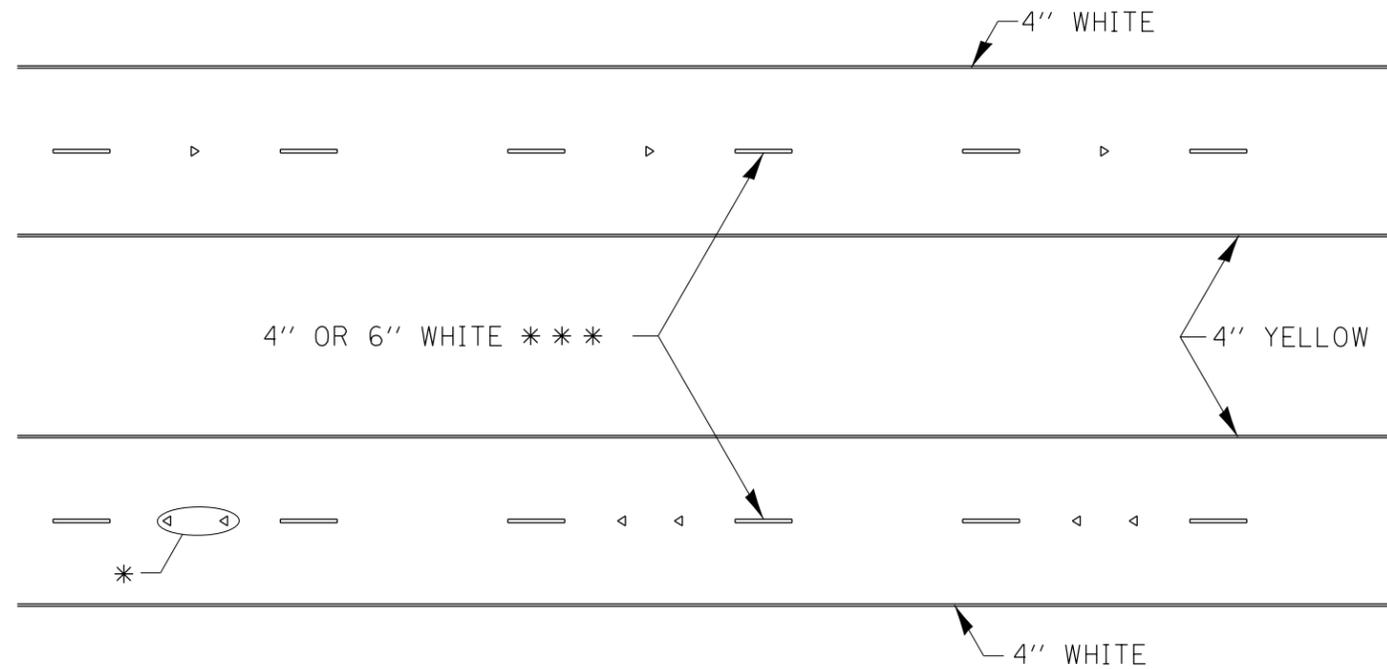
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD 41.1
TYPICAL PAVEMENT MARKINGS

SCALE: SHEET NO. 2 OF 3 SHEETS STA. TO STA.

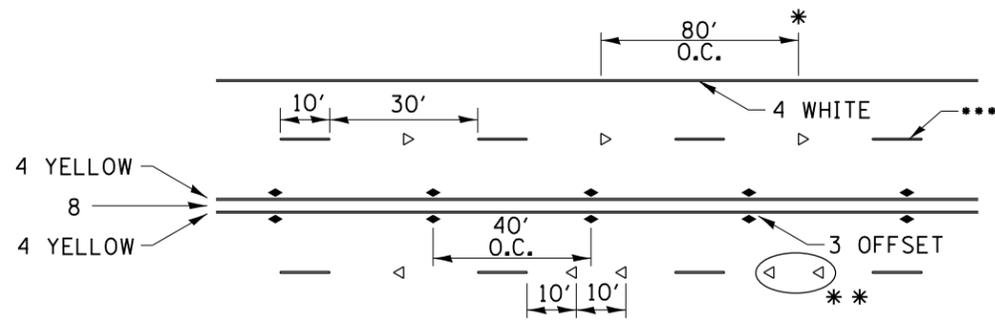
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1198	(110 BRM)	WHITESIDE	34	32
CONTRACT NO. 64L09				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TYPICAL PAVEMENT MARKINGS



* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS.
USE DOUBLE MARKERS WHEN ADT > 20,000.

MULTI-LANE / DIVIDED



* REDUCE TO 40' O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH LOWER THAN POSTED SPEEDS.

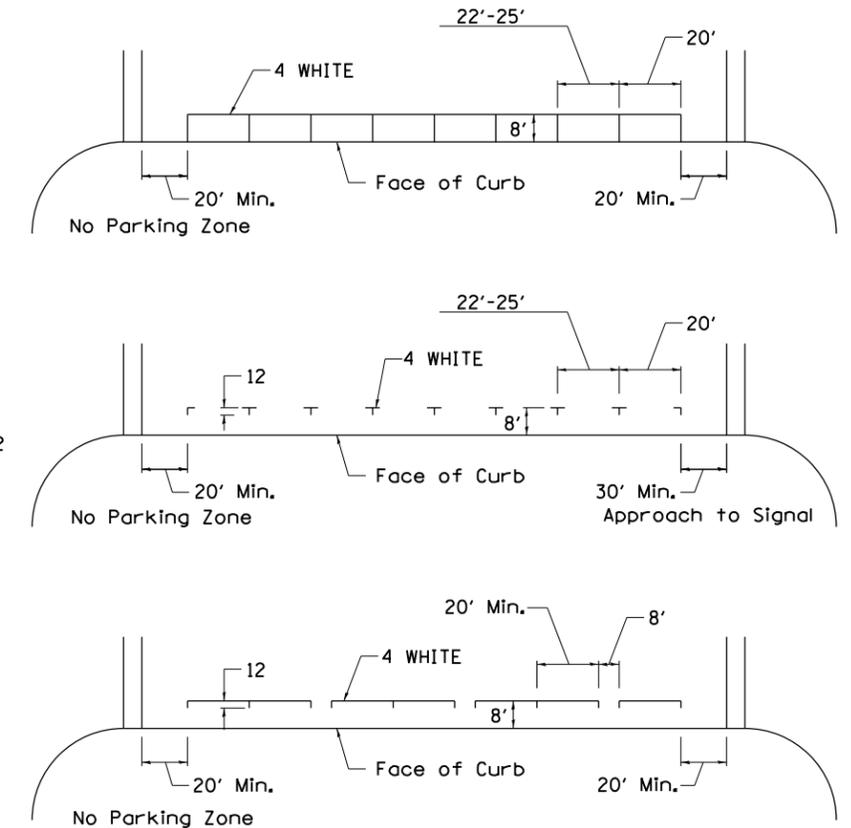
** USE DOUBLE MARKERS WHEN ADT ≥ 20,000

*** CENTERLINE SKIP DASH PAVEMENT MARKING SPEED LIMIT LESS THAN 40 MPH USE 4" LINE. SPEED LIMIT 40 MPH AND OVER USE 6" LINE.

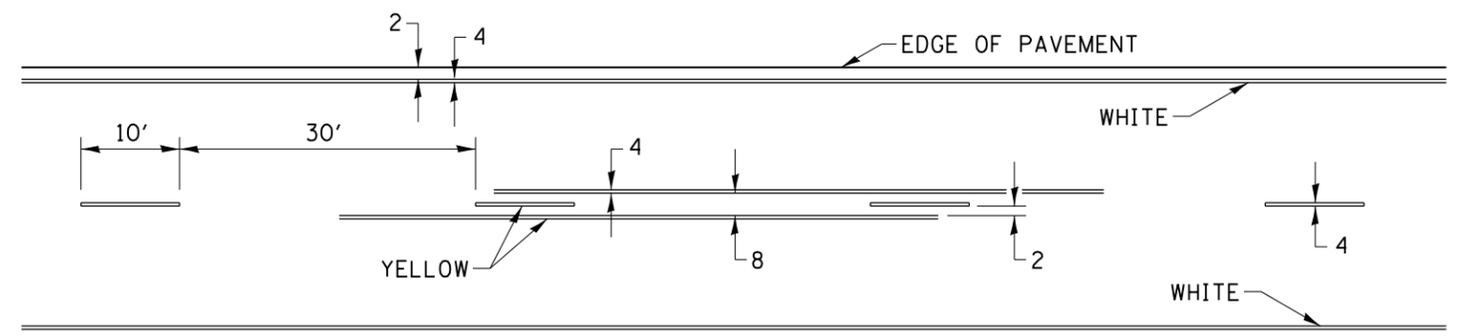
MULTI-LANE / UNDIVIDED & ONE WAY

(FOR MULTI-LANE UNDIVIDED HIGHWAYS USE THIS DETAIL NOT HIGHWAY STANDARD 781001)

TYPICAL PARKING SPACING



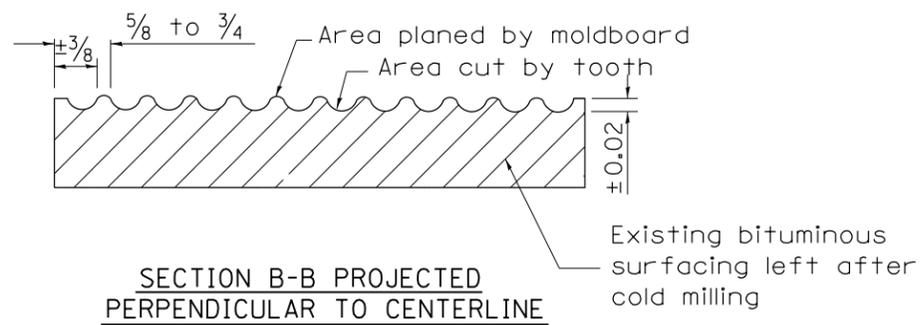
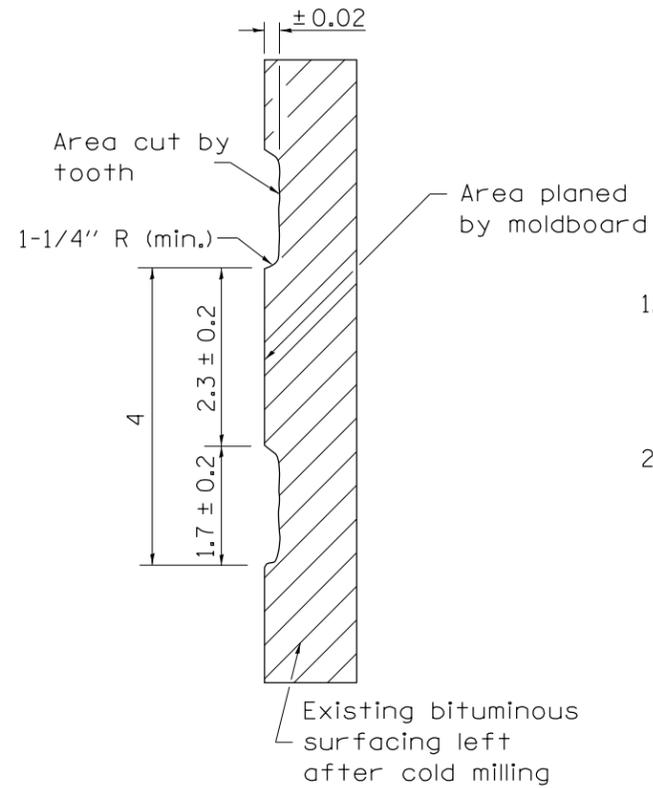
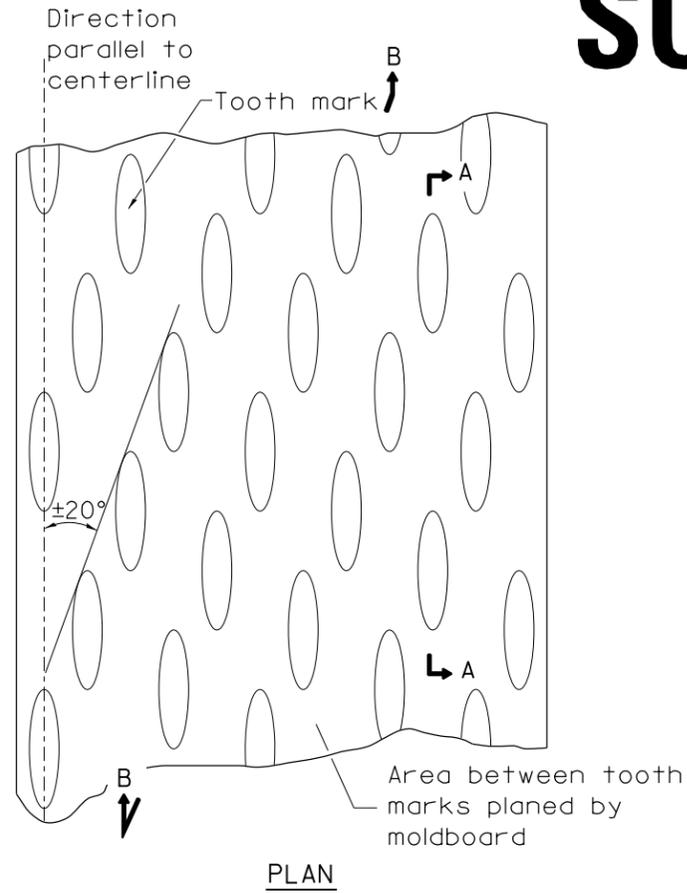
TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION – NO PASSING ZONES



SYMBOLS

FILE NAME =	USER NAME = lisa.buntin	DESIGNED -	REVISED - 6-27-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD 41.1 TYPICAL PAVEMENT MARKINGS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
P:\1208-562 IDOT Various-Variou (District 2)\Work Order 7\Sheets\Civil\DXXXX-330\Std DRAWN 41.1-3of3.dgn	CHECKED -	REVISED - 8-27-13	1198			(110 BRIM)	WHITESIDE	34	33	
PLOT SCALE = 100:0.0000 ' / in.	DATE -	REVISED - 11-28-12	CONTRACT NO. 64L09							
PLOT DATE = 1/22/2016	DATE -	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

REQUIRED COLD MILLED SURFACE TEXTURE



NOTES

1. Cold Milling shall consist of two processes: Cutting with carbide teeth mounted on a rotating drum, and planing with a moldboard mounted immediately behind the cutting drum.
2. Other similar patterns will be acceptable if they consist of a smooth, flat, planed surface interspersed with a pattern of discontinuous longitudinal striations.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 10-03-11

FILE NAME =	USER NAME = lisa.buntin	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD 43.4 REQUIRED COLD MILLED SURFACE TEXTURE	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
P:\1208-562 IDOT Various-Variou (District	2)\Work Order 7\Sheets\Civil\DXXXX-34Dist	DRAWN	REVISED			1198	(110 BRIM)	WHITESIDE	34	34	
MODELNAME	PLOT SCALE = 1:10.0000 '1' / in.	CHECKED -	REVISED -			CONTRACT NO. 64L09					
	PLOT DATE = 1/22/2016	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
					SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	