

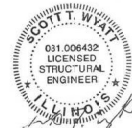
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 309 FAI 88	(195-3B, 195-3HB)BDR	WHITESIDE	50	1
		ILLINOIS	CONTRACT NO. 64S31	

FOR INDEX OF SHEETS, SEE SHEET NO. 2



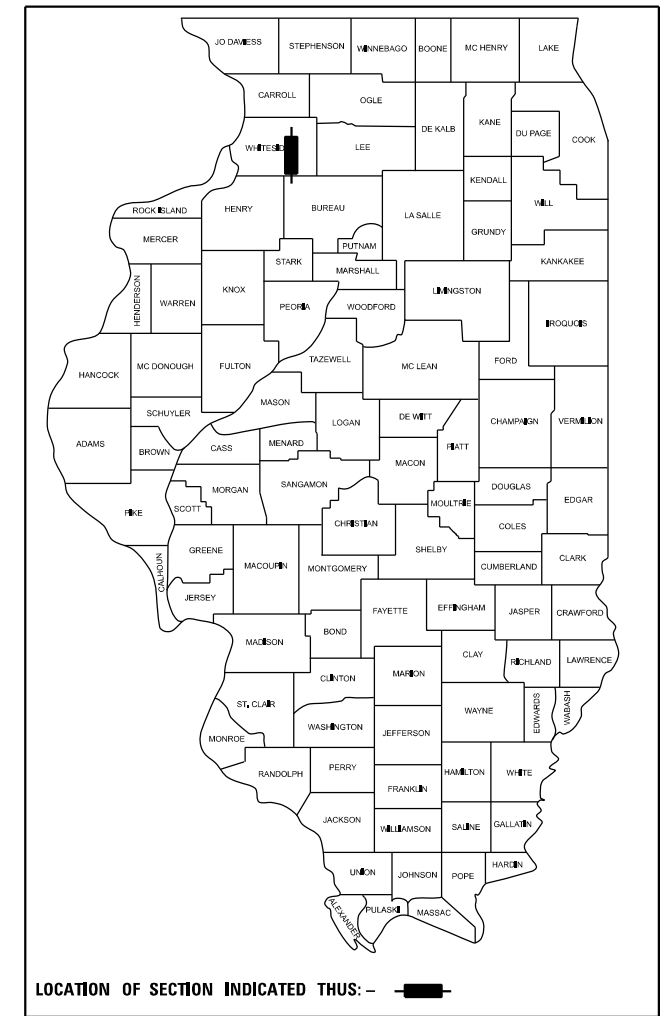
HOWARD J. HAMILTON, P.E. DATE 10/13/23  
LICENSE EXPIRES 11/30/2023  
SHEET RANGE 1 - 15



SCOTT T. WYATT, S.E. DATE 10/13/23  
LICENSE EXPIRES 11/30/2024  
SHEET RANGE 16 - 36

PROPOSED  
HIGHWAY PLANS

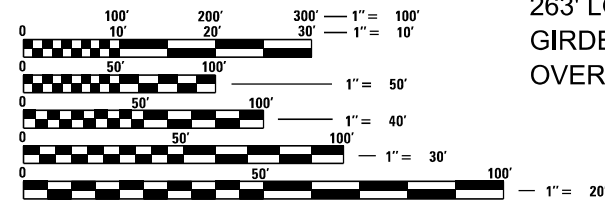
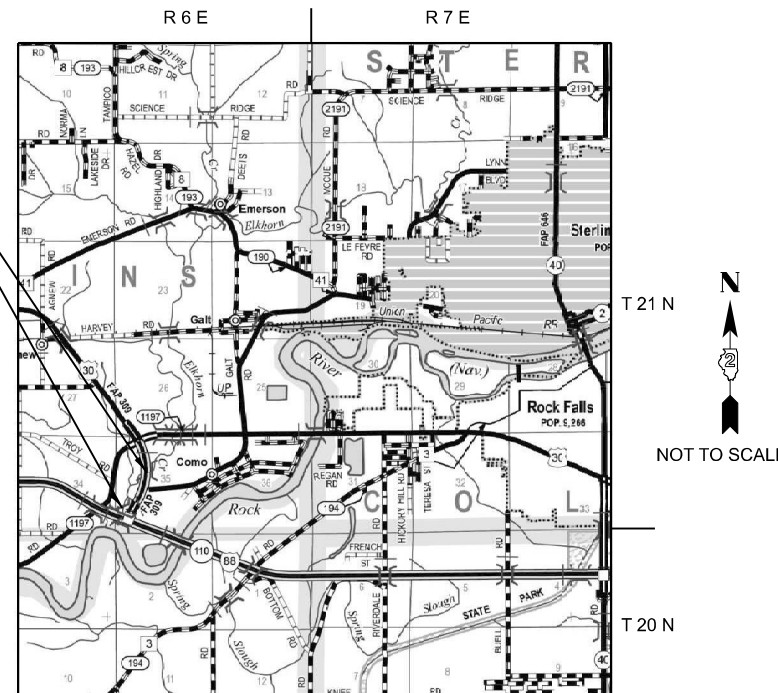
FAP 309 & FAI 88 (US 30 & I88)  
SECTION (195-3B, 195-3HB)BDR  
BRIDGE REPAIRS  
WHITESIDE COUNTY  
PROJECT: HBF-P-NHPP-HCHT(087)  
C-92-062-23



PROJECT LOCATION  
SN 098-0093 & 098-0094 PARALLEL  
319' LONG 3-SPAN MULTI-BEAM  
GIRDER WITH WALL PIERS & PILE  
BENT ABUTMENTS OVER ELKHORN  
CREEK

SN 098-0092 275' LONG 3-SPAN MULTI-  
BEAM GIRDER WITH WALL PIERS & PILE  
BENT ABUTMENTS OVER ELKHORN CR.

SN 098-0077 & 098-0078 PARALLEL  
263' LONG 2-SPAN MULTI-BEAM  
GIRDER WITH PILE BENT ABUTS  
OVER I-88



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 EXCAVATORS  
1-800-892-0123  
OR 811

PROJECT ENGINEER: HOWARD HAMILTON  
PROJECT MANAGER: MAHMOUD ETEMADI

GROSS LENGTH = 1057 FT. = 0.200 MILE  
NET LENGTH = 1057 FT. = 0.200 MILE

CONTRACT NO. 64S31

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED October 13, 2023

*David Arnold*  
REGIONAL ENGINEER

December 8, 2023  
*Scott A. Etkin*  
ENGINEER OF DESIGN AND ENVIRONMENT

December 8, 2023  
*Stephen M. Smith*  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS



# SUMMARY OF QUANTITIES

CONSTRUCTION CODE 0013

80% FEDERAL 20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE			ROADWAY
				SN 098-0093		SN 098-0077	RURAL
				SN 098-0094	SN 098-0092	90% FED 10% STATE SN 098-0078	
40604060	HOT-MIX ASPHALT SURFACE COURSE, IL 9.5, MIX "D", N50	TON	120	90	30		
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	2289	1711	578		
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	579	356	223		
50102400	CONCRETE REMOVAL	CU YD	46	38	8		
50104000	BRIDGE RAIL REMOVAL	FOOT	2862	1272	550	1040	
501157300	PROTECTIVE SHIELD	SQ YD	635			635	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	46	38	8		
50300260	BRIDGE DECK GROOVING	SQ YD	3447	1696	367	1384	
50300300	PROTECTIVE COAT	SQ YD	4883	2721	749	1413	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	4858	3720	1138		
50800515	BAR SPLICERS	EACH	28	28			
52000050	PREFORMED JOINT SEAL, 4"	FOOT	112			112	
52000110	PREFORMED JOINT STRIP SEAL	FOOT	241	186		55	
67100100	MOBILIZATION	L SUM	1	0.34	0.33	0.33	

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 Environmental Design International Inc.  
 Civil, Survey, Environmental and Construction Inspection Services  
 33 W. MONROE STREET, SUITE 1825, CHICAGO, IL 60603  
 PH: (312) 345-1400 FAX (312) 345-9529 www.edienvdesign.com



USER NAME = mbutling	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 2,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/12/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US 30 SPUR CROSSING ELKHORN CREEK AND I-88  
SUMMARY OF QUANTITIES**

SCALE: NA SHEET 3 OF 50 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 309 FAI 88	(195-3B, 195-3HB)BDR	WHITESIDE	50	3
CONTRACT NO. 64S31				
ILLINOIS		FED. AID PROJECT		

# SUMMARY OF QUANTITIES

CONSTRUCTION CODE 0013

80% FEDERAL 20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE			ROADWAY
				SN 098-0093	SN 098-0092	SN 098-0077	RURAL
				SN 098-0094		90% FED 10% STATE SN 098-0078	
70100325	TRAFFIC CONTROL AND PROTECTION, STANDARD 701423	EACH	1	1			
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	2	2			
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1	0.5	0.5		
70100820	TRAFFIC CONTROL AND PROTECTION, STANDARD 701451	L SUM	1			1	
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	7315	7315			
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	2138	2138			
70400100	TEMPORARY CONCRETE BARRIER	FOOT	638	638			
70400125	PINNING TEMPORARY CONCRETE BARRIER	EACH	76	76			
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	638	638			
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	1	1			
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	1	1			
* 78004620	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - LINE 4"	FOOT	8850	4050	800	4000	
* 78011035	GROOVING FOR RECESSED PAVEMENT MARKING - 7"	FOOT	450	450			
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	13	13			
78300202	PAVEMENT MARKING REMOVAL-WATER BLASTING	SQ FT	530	530			

\*= SPECIALTY ITEM

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US 30 SPUR CROSSING ELKHORN CREEK AND I-88  
SUMMARY OF QUANTITIES

SCALE: NA SHEET 4 OF 50 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 309 FAI 88	(195-3B, 195-3HB)BDR	WHITESIDE	50	4
CONTRACT NO. 64S31				
ILLINOIS		FED. AID PROJECT		



# SUMMARY OF QUANTITIES

CONSTRUCTION CODE

80% FEDERAL 20% STATE 0013

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE				ROADWAY
				SN 098-0093		SN 098-0077		
				SN 098-0094	SN 098-0092	90% FED 10% STATE SN 098-0078	RURAL	
X0325748	ACRYLIC COATING	SQ YD	2227	989	430	808		
* X7820007	GUARDRAIL REFLECTORS, TYPE C (SPECIAL)	EACH	216	50	30	136		
Z00I2144	BRIDGE DECK SCARIFICATION 2 1/2"	SQ YD	4883	2721	749	1413		
Z00I2164	BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2 1/2"	SQ YD	4883	2721	749	1413		
Z00I2754	STRUCTURAL REPAIR OF CONCRETE (DEPTH <= 5")	SQ YD	540	250	140	150		
Z00I3797	STABILIZED CONSTRUCTION ENTRANCE	SQ YD	242	242				
Z00I600I	DECK SLAB REPAIR (FULL DEPTH TYPE I)	SQ YD	52	20	16	16		
Z00I6702	DETOUR SIGNING	L SUM	1	0.34	0.33	0.33		
Z0053750	RETROFIT CONCRETE PARAPET	FOOT	2862	1272	550	1040		

\* = SPECIALTY ITEM

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 Environmental Design International Inc.  
 1312 N. Dearborn Street, Suite 100, Chicago, IL 60610  
 Tel: 312.943.1100 Fax: 312.943.1101 www.edi.com

**EDI** ENVIRONMENTAL DESIGN INTERNATIONAL INC.  
 1312 N. DEARBORN STREET, SUITE 100, CHICAGO, IL 60610  
 TEL: 312.943.1100 FAX: 312.943.1101 WWW.EDI.COM

USER NAME = mbutling	DESIGNED -	REVISED -
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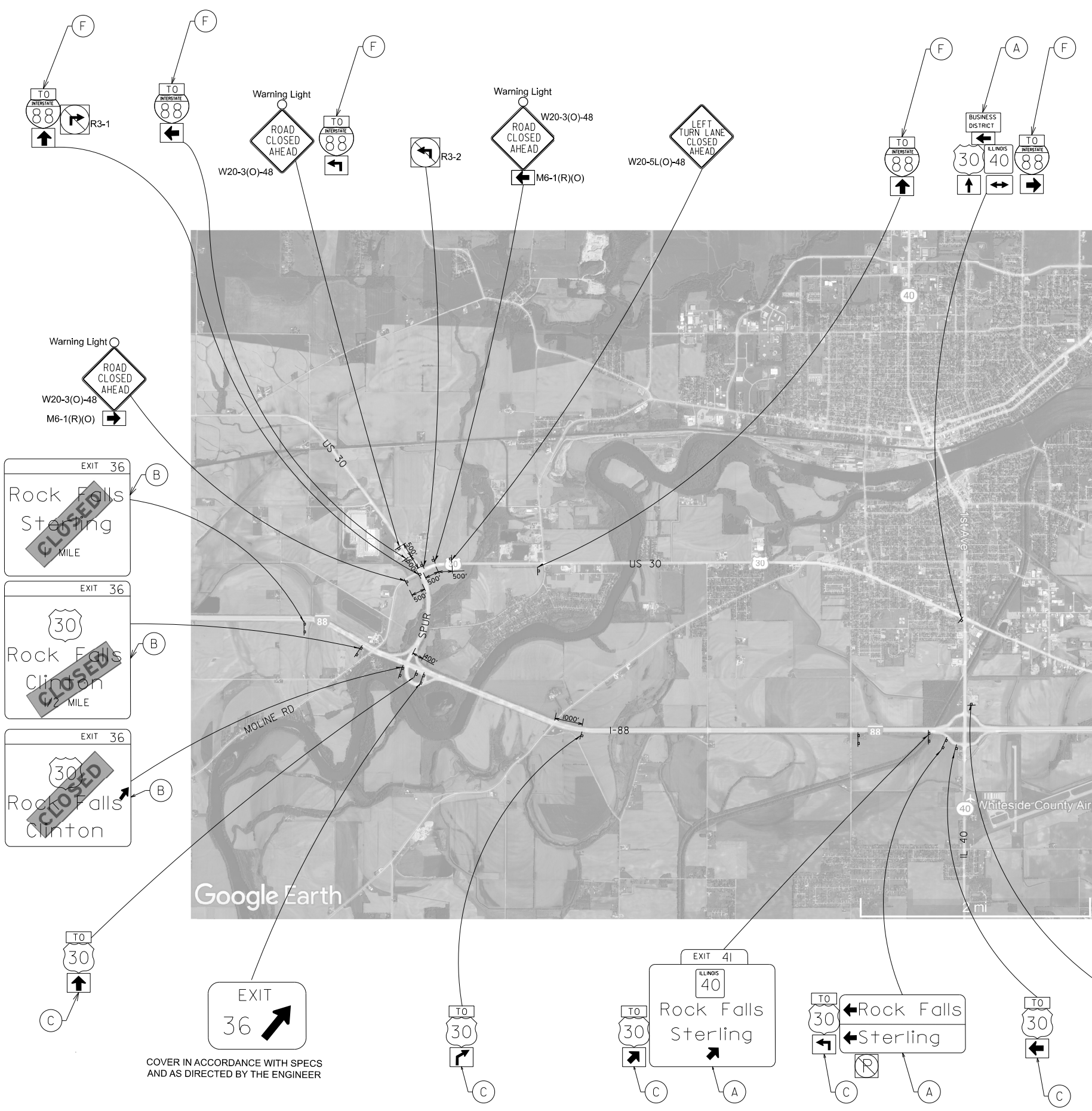
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**US 30 SPUR CROSSING ELKHORN CREEK AND I-88**  
**SUMMARY OF QUANTITIES**

SCALE: NA SHEET 5 OF 50 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 309 FAI 88	(195-3B, 195-3HB)BDR	WHITESIDE	50	5
CONTRACT NO. 64S31			ILLINOIS FED. AID PROJECT	





- ### DETOUR CALLOUTS
- (A) Sign assembly to remain as is. Shown as a proximity and location aid only.
  - (B) Modify panel sign to include "CLOSED" banner. See "Traffic Control South Plan Sheets" for banner dimensions.
  - (C) Install post and sign assembly with the following signs:  
 M4-5(O) 24 x 12 "TO"  
 M1-1 24 x 24 US 30 Shield  
 M5 or M6(O) 21 x 15 Applicable adv. turn or direction arrow
  - (E) Modify existing sign assembly to cover existing direction arrow with the applicable M5 or M6(O) advance turn or direction arrow.
  - (F) Install post and sign assembly with the following signs:  
 M4-5(O) 24 x 12 "TO"  
 M1-1 24 x 24 I-88 Shield  
 M5 or M6(O) 21 x 15 Applicable adv. turn or direction arrow

### DETOUR NOTES

Permanent signs not shown to remain as is. Permanent signs conflicting with detour signs to be covered in accordance with specifications and as directed by the Engineer.

All signs or barricades indicated to be modified or erected on this plan sheet are included in the item "Detour Signs".

COVER IN ACCORDANCE WITH SPECS AND AS DIRECTED BY THE ENGINEER

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 Environmental Design International Inc.  
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 Ph: (312) 345-1000 Fax: (312) 345-2529 www.edi-usa.com



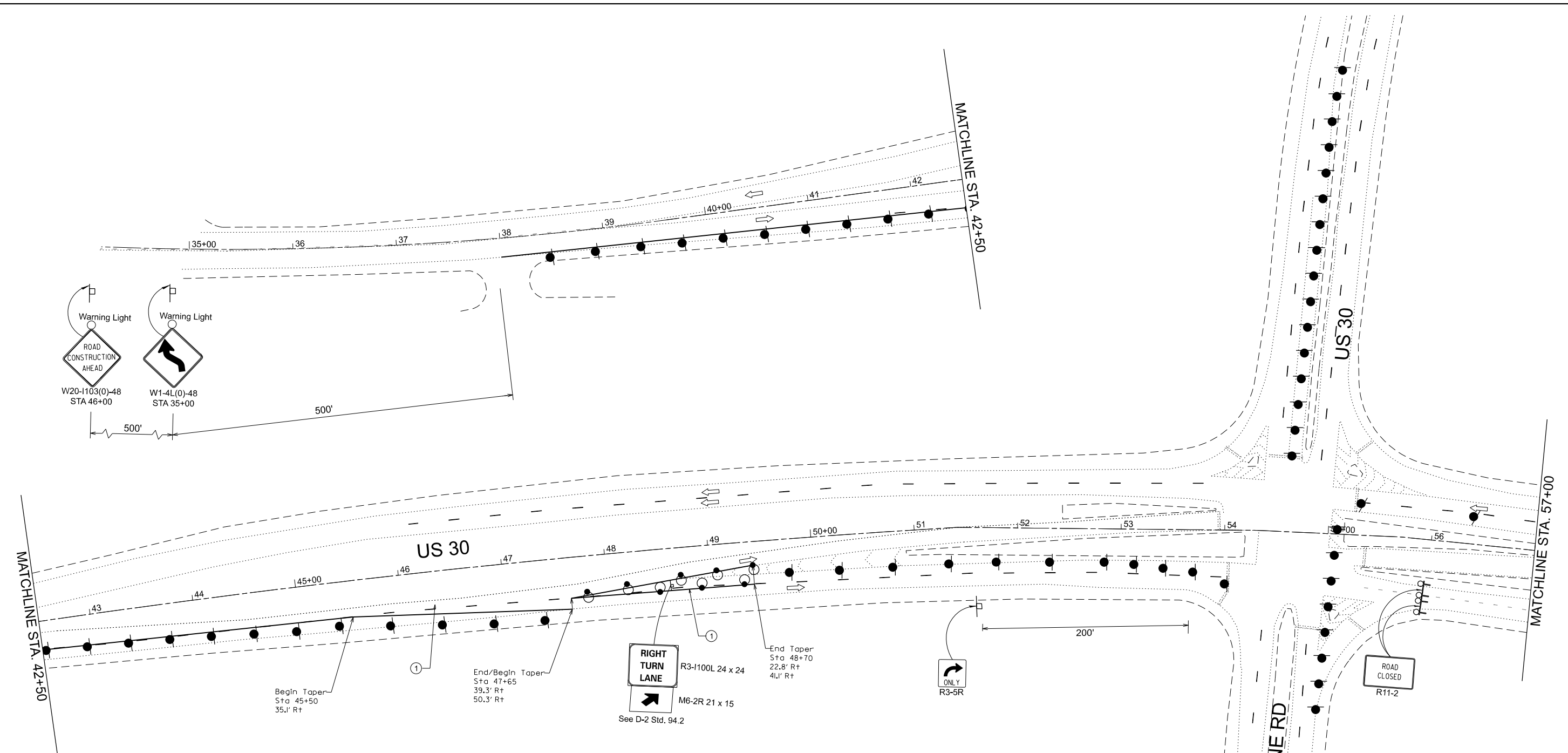
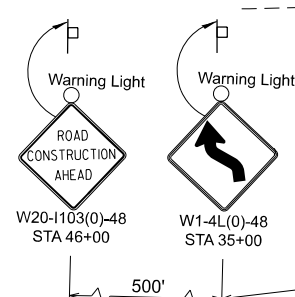
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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US 30 SPUR CROSSING ELKHORN CREEK AND I-88  
MAINTENANCE OF TRAFFIC DETOUR PLAN STAGE 1**

SCALE: 1" = 1 mile    SHEET 7 OF 50 SHEETS    STA. TO STA.

F.A. RTE. FAP 309 FAI 88	SECTION (195-3B, 195-3HB)BDR	COUNTY WHITESIDE	TOTAL SHEETS 50	SHEET NO. 7
CONTRACT NO. 64S31			ILLINOIS FED. AID PROJECT	



**SYMBOLS**

- ⬆ Direction indicator barricade w/ steady burn mono-directional light.
- ⊞ Sign
- Type II or vertical barricade, or drum, with steady burn monodirectional light.
- ⊙ Drums w/ steady burn mono-directional light.
- ⊞ Type III Barricade w/ Flashing Light

**ADDITIONAL CALLOUTS/ NOTES**

- ① Pavement Marking Tape, Type IV, 4" White
- Cost for maintenance of traffic signs, barricades, and barrels for temporary exit to right turn lane included in item "Traffic Control and Protection Standard 701411".
- Cost for all other maintenance of traffic signs, barricades, and barrels shown included in item "Detour Signing".
- See Region 2 / District 2 Standard "Traffic Control for Transition Areas Case 1" for maintenance of traffic setup, dimensions, and offsets in the 2-lane to 4-lane transition.



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 Environmental Design International Inc.  
 33 W. MONROE STREET, SUITE 1825, CHICAGO, IL 60603  
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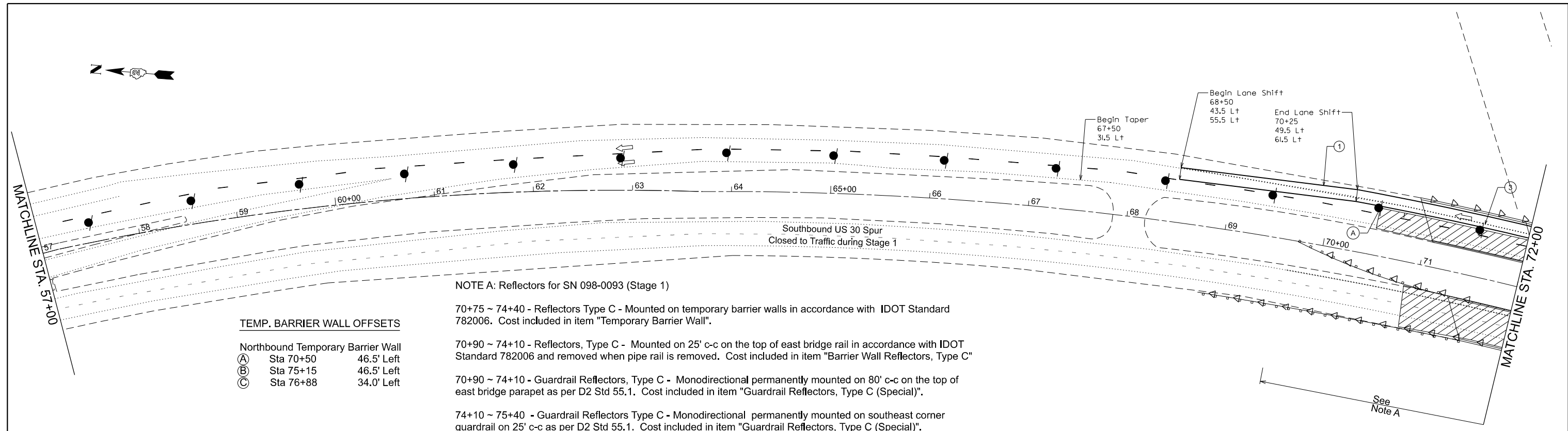
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PLOT DATE = 10/12/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**US 30 SPUR CROSSING ELKHORN CREEK AND I-88**  
**MAINTENANCE OF TRAFFIC NORTH APPROACH STAGE 1**

SCALE: 1"=50'    SHEET 8 OF 50 SHEETS    STA. 59+50 TO STA. 57+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 309 FAI 88	(195-3B, 195-3HB)BDR	WHITESIDE	50	8
CONTRACT NO. 64S31				
ILLINOIS FED. AID PROJECT				



**TEMP. BARRIER WALL OFFSETS**

Northbound Temporary Barrier Wall		
(A)	Sta 70+50	46.5' Left
(B)	Sta 75+15	46.5' Left
(C)	Sta 76+88	34.0' Left

NOTE A: Reflectors for SN 098-0093 (Stage 1)

70+75 ~ 74+40 - Reflectors Type C - Mounted on temporary barrier walls in accordance with IDOT Standard 782006. Cost included in item "Temporary Barrier Wall".

70+90 ~ 74+10 - Reflectors, Type C - Mounted on 25' c-c on the top of east bridge rail in accordance with IDOT Standard 782006 and removed when pipe rail is removed. Cost included in item "Barrier Wall Reflectors, Type C".

70+90 ~ 74+10 - Guardrail Reflectors, Type C - Monodirectional permanently mounted on 80' c-c on the top of east bridge parapet as per D2 Std 55.1. Cost included in item "Guardrail Reflectors, Type C (Special)".

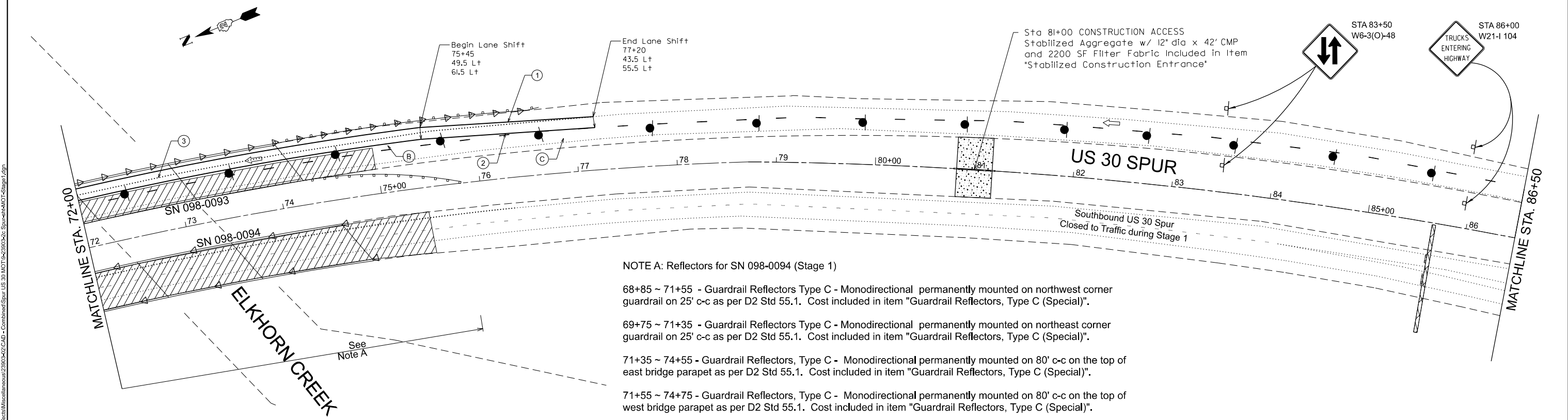
74+10 ~ 75+40 - Guardrail Reflectors Type C - Monodirectional permanently mounted on southeast corner guardrail on 25' c-c as per D2 Std 55.1. Cost included in item "Guardrail Reflectors, Type C (Special)".

**SYMBOLS**

Work area	Arrow board.
Drum	Sign
Monodirectional reflector.	Type II or vertical barricade, or drum, with steady burn monodirectional light.
Temporary impact attenuator, non-redirective, test level 3.	Temp. concrete barrier.

**ADDITIONAL CALLOUTS**

- (1) Pavement Marking Tape, Type IV, 4" White
- (2) Pavement Marking Tape, Type IV, 4" Yellow
- (3) Pavement Marking Removal-Water Blasting



NOTE A: Reflectors for SN 098-0094 (Stage 1)

68+85 ~ 71+55 - Guardrail Reflectors Type C - Monodirectional permanently mounted on northwest corner guardrail on 25' c-c as per D2 Std 55.1. Cost included in item "Guardrail Reflectors, Type C (Special)".

69+75 ~ 71+35 - Guardrail Reflectors Type C - Monodirectional permanently mounted on northeast corner guardrail on 25' c-c as per D2 Std 55.1. Cost included in item "Guardrail Reflectors, Type C (Special)".

71+35 ~ 74+55 - Guardrail Reflectors, Type C - Monodirectional permanently mounted on 80' c-c on the top of east bridge parapet as per D2 Std 55.1. Cost included in item "Guardrail Reflectors, Type C (Special)".

71+55 ~ 74+75 - Guardrail Reflectors, Type C - Monodirectional permanently mounted on 80' c-c on the top of west bridge parapet as per D2 Std 55.1. Cost included in item "Guardrail Reflectors, Type C (Special)".

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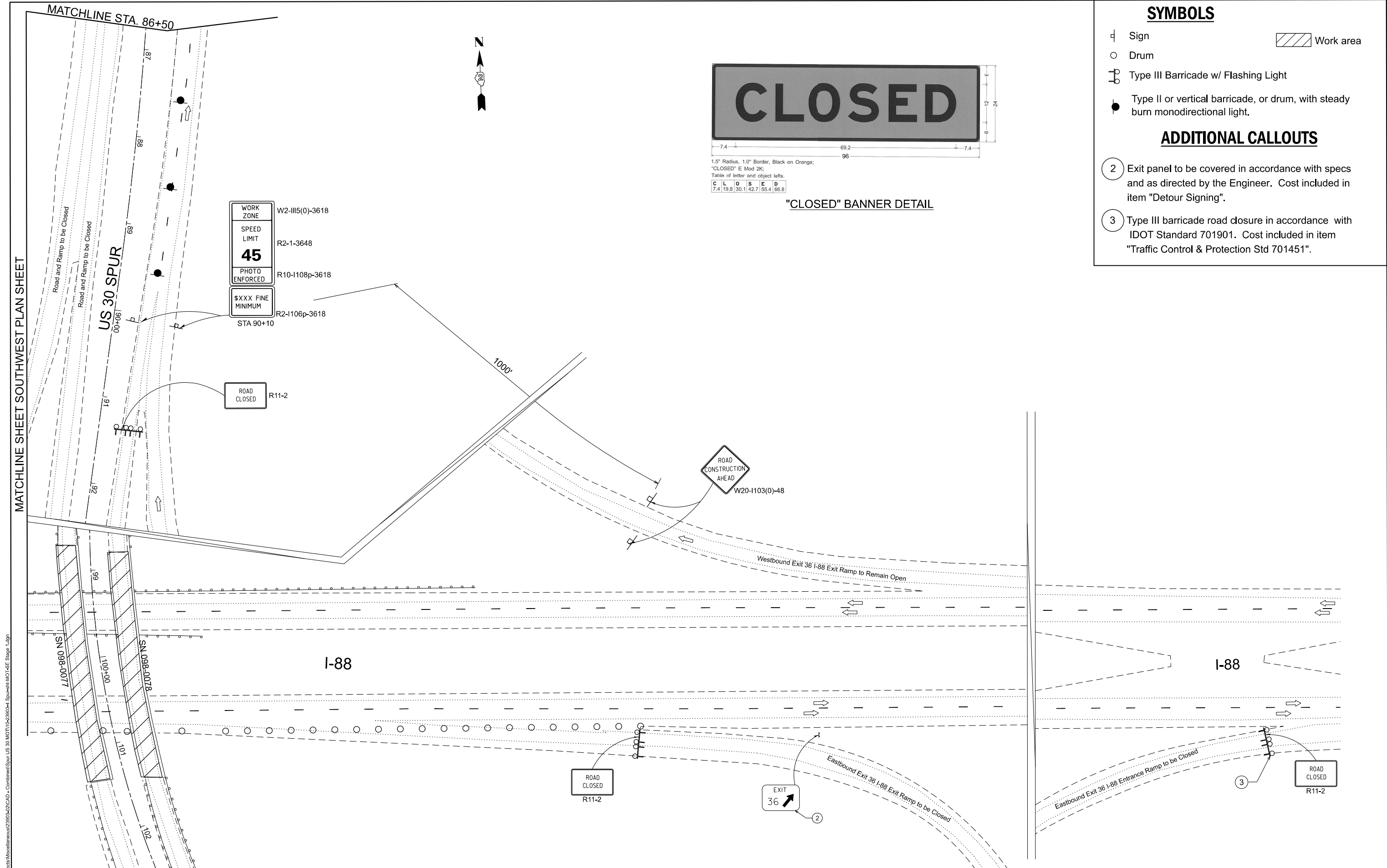
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	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**US 30 SPUR CROSSING ELKHORN CREEK AND I-88  
 MAINTENANCE OF TRAFFIC PLAN STAGE 1**

SCALE: 1"=50' SHEET 9 OF 50 SHEETS STA. 57+00 TO STA. 86+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 309 FAI 88	(195-3B, 195-3HB)BDR	WHITESIDE	50	9
CONTRACT NO. 64S31			ILLINOIS FED. AID PROJECT	



MATCHLINE SHEET SOUTHWEST PLAN SHEET

MODEL: Default  
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PLOT DATE = 10/12/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US 30 SPUR CROSSING ELKHORN CREEK AND I-88  
MAINTENANCE OF TRAFFIC SOUTHEAST APPROACH STAGE 1**

SCALE: 1"=50'    SHEET 10 OF 50 SHEETS    STA. 86+50    TO STA. 102+50

F.A. RTE. FAP 309 FAI 88	SECTION (195-3B, 195-3HB)BDR	COUNTY WHITESIDE	TOTAL SHEETS 50	SHEET NO. 10
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64S31	

**SYMBOLS**

- ⊣ Sign
- Drum
- ⊣ Type III Barricade w/ Flashing Light
- Type II or vertical barricade, or drum, with steady burn monodirectional light.
- Work area

**ADDITIONAL CALLOUTS**


- 2 Exit panel to be covered in accordance with specs and as directed by the Engineer. Cost included in item "Detour Signing".
- 3 Type III barricade road closure in accordance with IDOT Standard 701901. Cost included in item "Traffic Control & Protection Std 701451".



1.5" Radius, 1.0" Border, Black on Orange;  
"CLOSED" E Mod 2K;  
Table of letter and object lefts.  
C L O S E D  
7.4 19.8 30.1 42.7 55.4 66.8

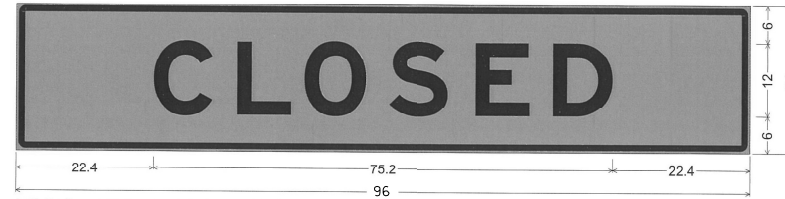
"CLOSED" BANNER DETAIL

**SYMBOLS**

- ⊣ Sign
- Drum
- ⊣ Type III Barricade w/ Flashing Light
-  Work area

**ADDITIONAL CALLOUTS**

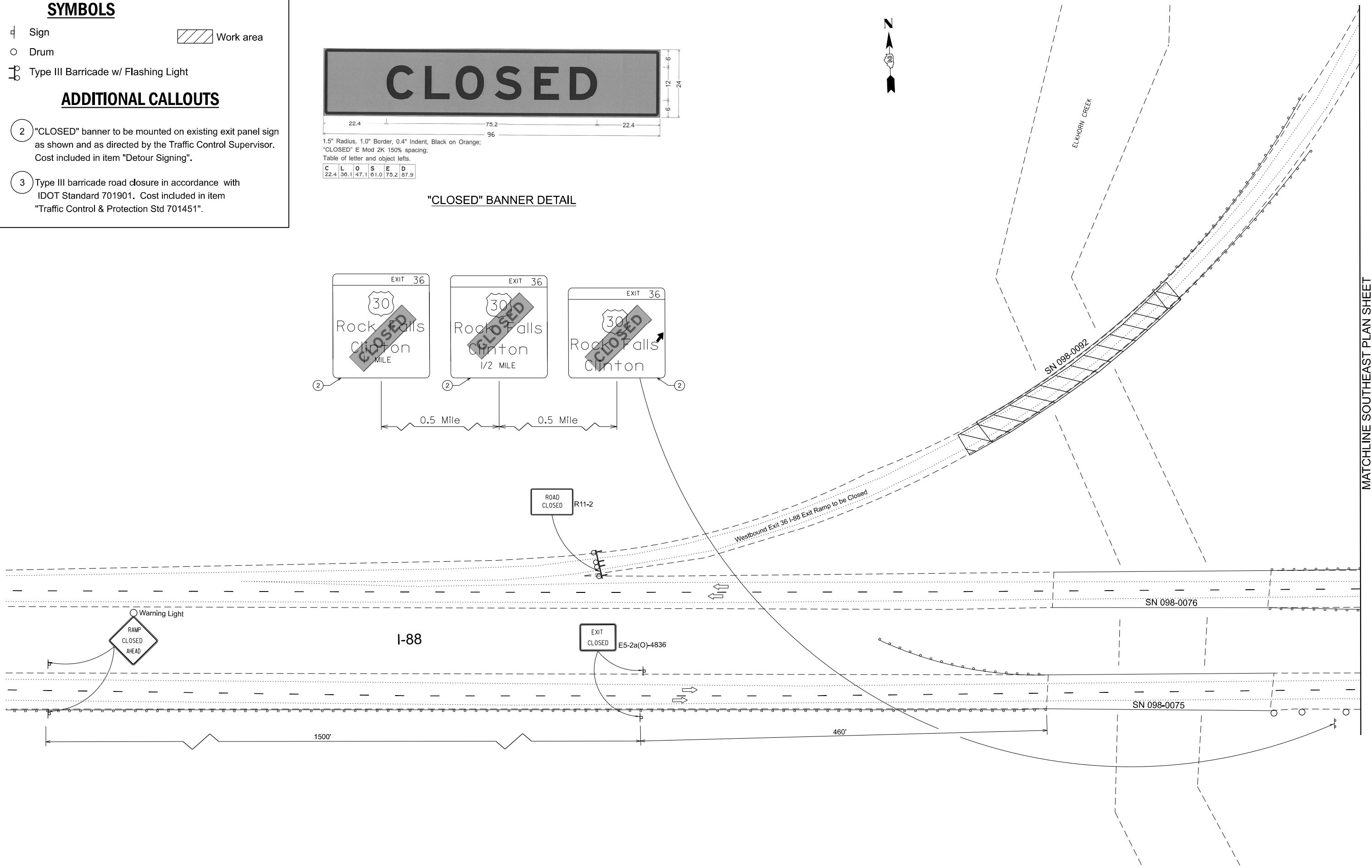
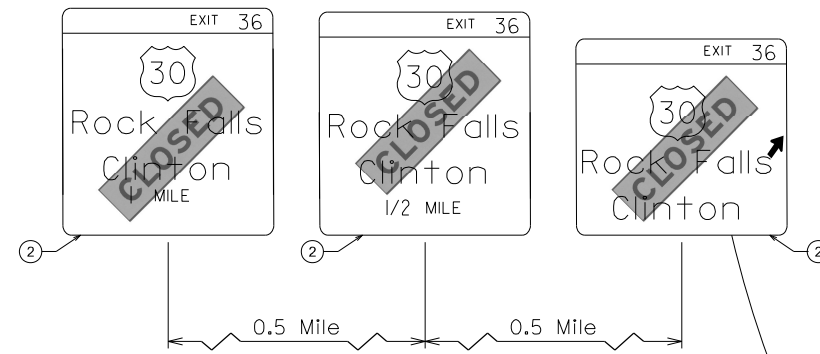
- ② "CLOSED" banner to be mounted on existing exit panel sign as shown and as directed by the Traffic Control Supervisor. Cost included in item "Detour Signing".
- ③ Type III barricade road closure in accordance with IDOT Standard 701901. Cost included in item "Traffic Control & Protection Std 701451".



1.5" Radius, 1.0" Border, 0.4" Indent, Black on Orange;  
 "CLOSED" E Mod 2K 150% spacing;  
 Table of letter and object lefts.

C	L	O	S	E	D
22.4	36.1	47.1	61.0	75.2	87.9

"CLOSED" BANNER DETAIL



MATCHLINE SOUTHEAST PLAN SHEET

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

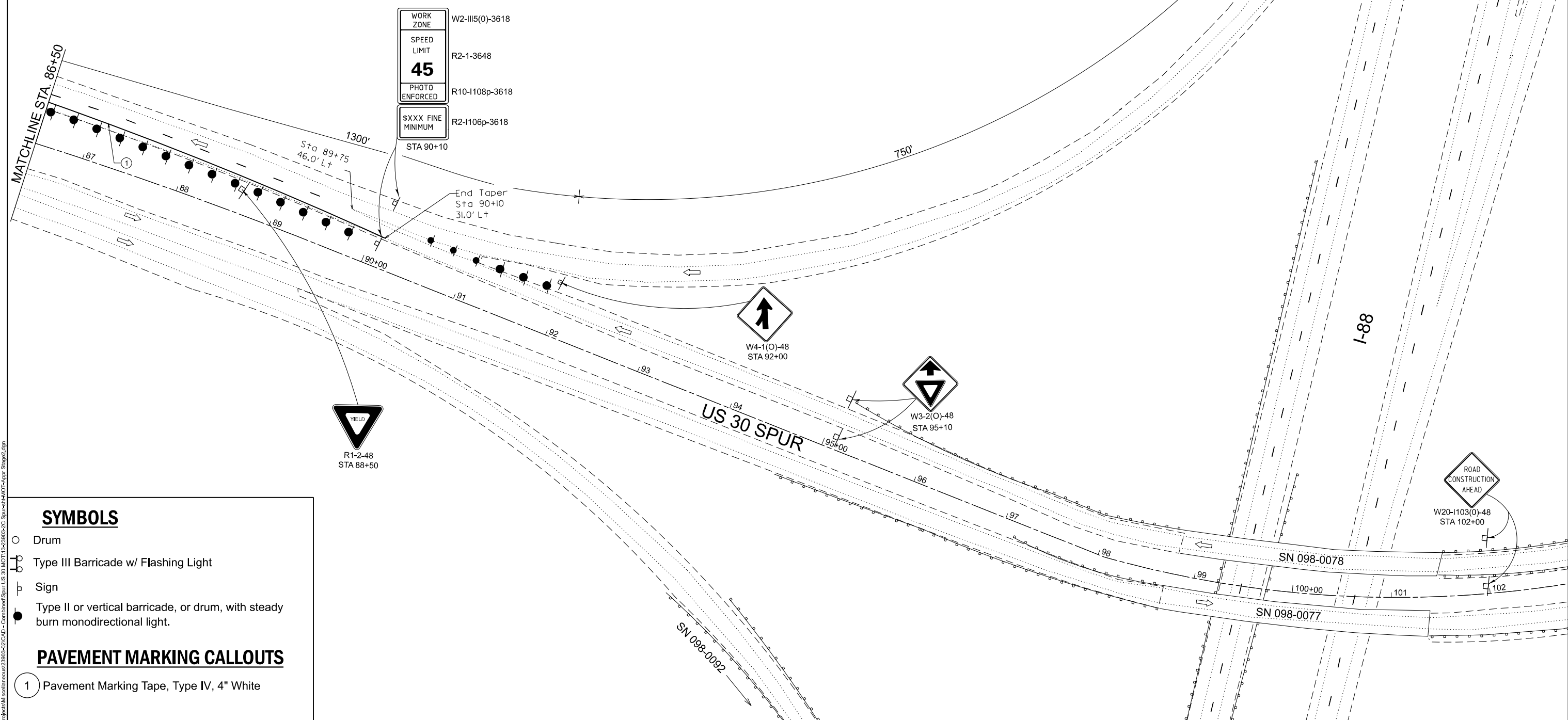
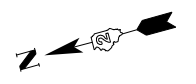
**US 30 SPUR CROSSING ELKHORN CREEK AND I-88  
 MAINTENANCE OF TRAFFIC SOUTHWEST APPROACH STAGE 1**

SCALE: 1"=50' SHEET 11 OF 50 SHEETS STA. TO STA.

F.A. RTE. FAP 309 FAI 88	SECTION (195-3B, 195-3HB)BDR	COUNTY WHITESIDE	TOTAL SHEETS 50	SHEET NO. 11
CONTRACT NO. 64S31			ILLINOIS FED. AID PROJECT	







WORK ZONE	W2-1105(0)-3618
SPEED LIMIT	R2-1-3648
45	
PHOTO ENFORCED	R10-1108p-3618
\$XXX FINE MINIMUM	R2-1106p-3618
STA 90+10	

**SYMBOLS**

- Drum
- ⊕ Type III Barricade w/ Flashing Light
- ⊐ Sign
- Type II or vertical barricade, or drum, with steady burn monodirectional light.

**PAVEMENT MARKING CALLOUTS**

- 1 Pavement Marking Tape, Type IV, 4" White

MODEL: D:\p1\1 Environmental Design International Inc. Environmental Design International Inc. 33 W. MONROE STREET, SUITE 1825, CHICAGO, IL 60603 PH: (312) 345-1400 FAX (312) 345-9529 www.envdesign.com

EDII	Environmental Design International Inc.
USER NAME =	mbulging
PLOT SCALE =	100,0000' / in.
PLOT DATE =	10/12/2023

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

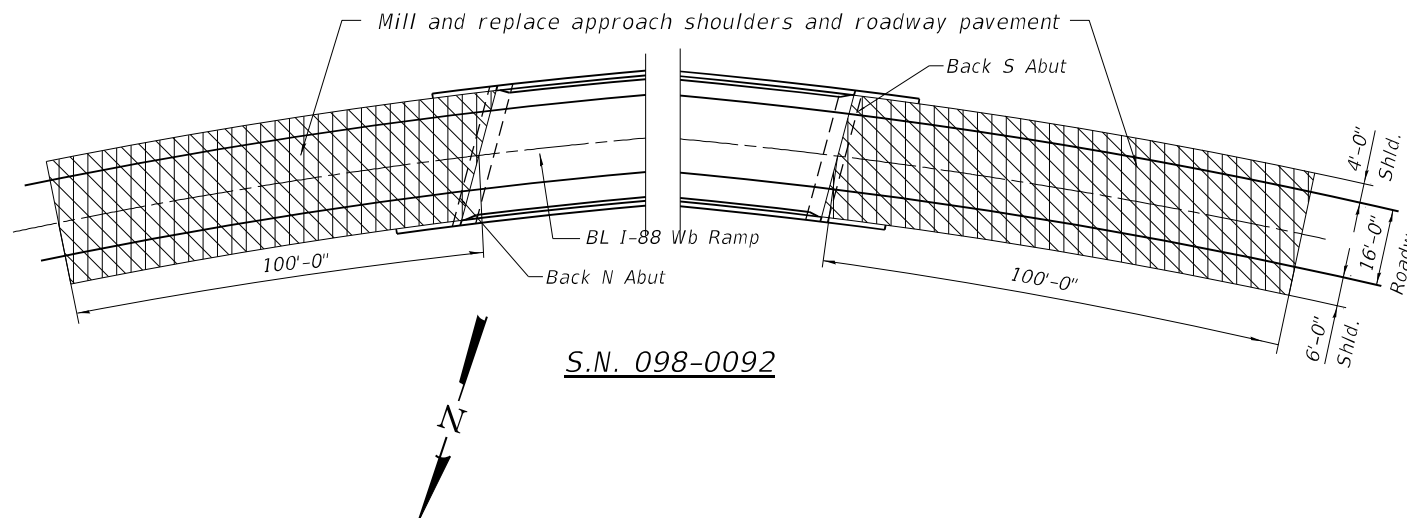
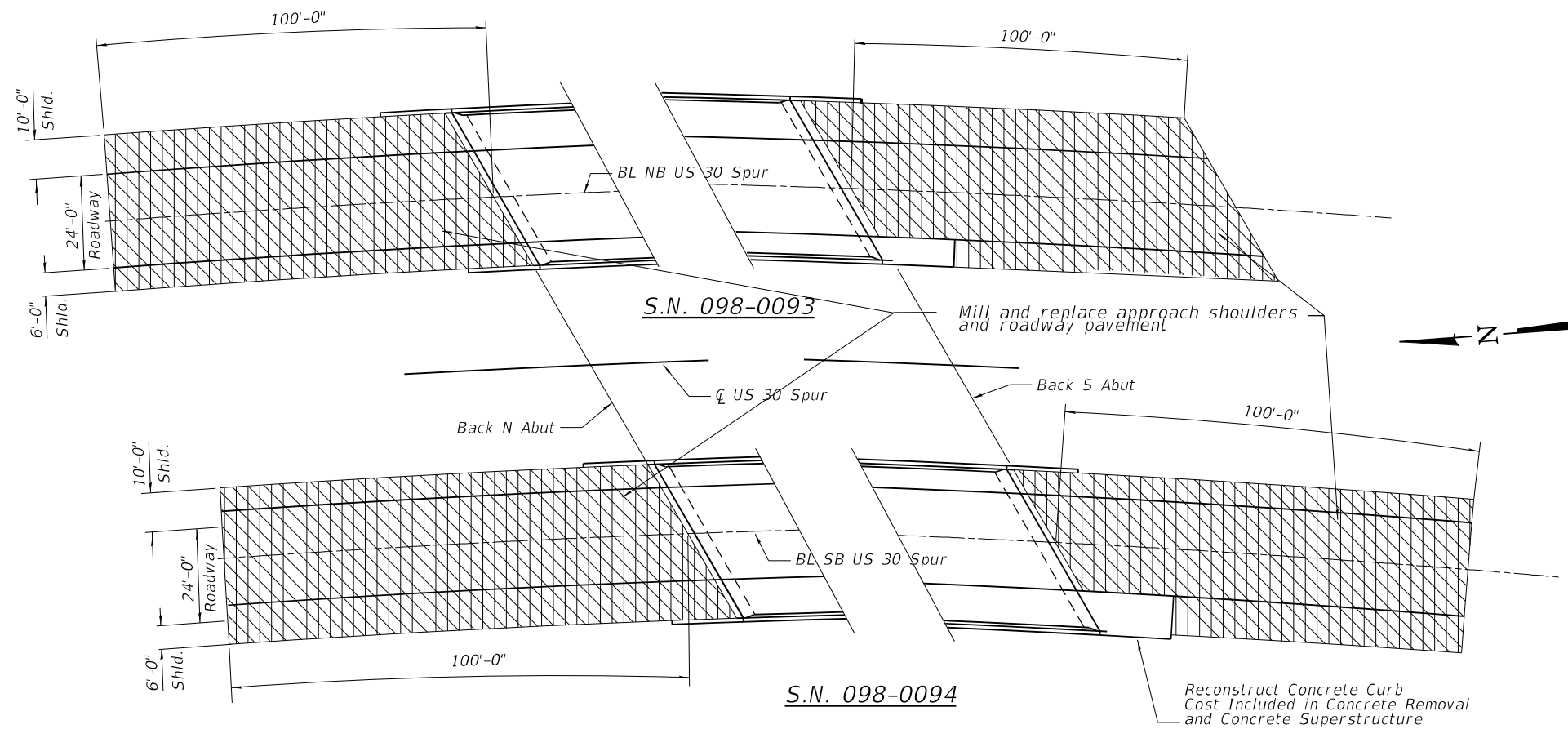
**US 30 SPUR CROSSING ELKHORN CREEK AND I-88  
MAINTENANCE OF TRAFFIC STAGE 2 SOUTH APPROACH**

SCALE: 1"=50' SHEET 13 OF 50 SHEETS STA. 86+50 TO STA. 102+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 309 FAI 88	(195-3B, 195-3HB)BDR	WHITESIDE	50	13
CONTRACT NO. 64S31				
ILLINOIS FED. AID PROJECT				







HMA

Location(s):	Surface	Shoulders	
Mixture Use(s):	Surface	Surface	All Lower Lifts
Binder Grade (AC/PG):	PG 58-28	PG 58-28	PG 58-28
Design Air Voids:	4.0 @ Ndes=50	4.0 @ Ndes=50	4.0 @ Ndes=50
Mixture Composition:			
(Mixture Gradation):	IL 9.5	IL 9.5 OR 9.5FG	IL - 19.0
Friction Aggregate:	Mixture "D"	Mixture "D"	N/A
Mixture Weight:	112 LB/SQ YD/IN	112 LB/SQ YD/IN	N/A
Quality Management Program:	QC/QA	QC/QA	QC/QA
Sublot Size:	N/A	N/A	N/A

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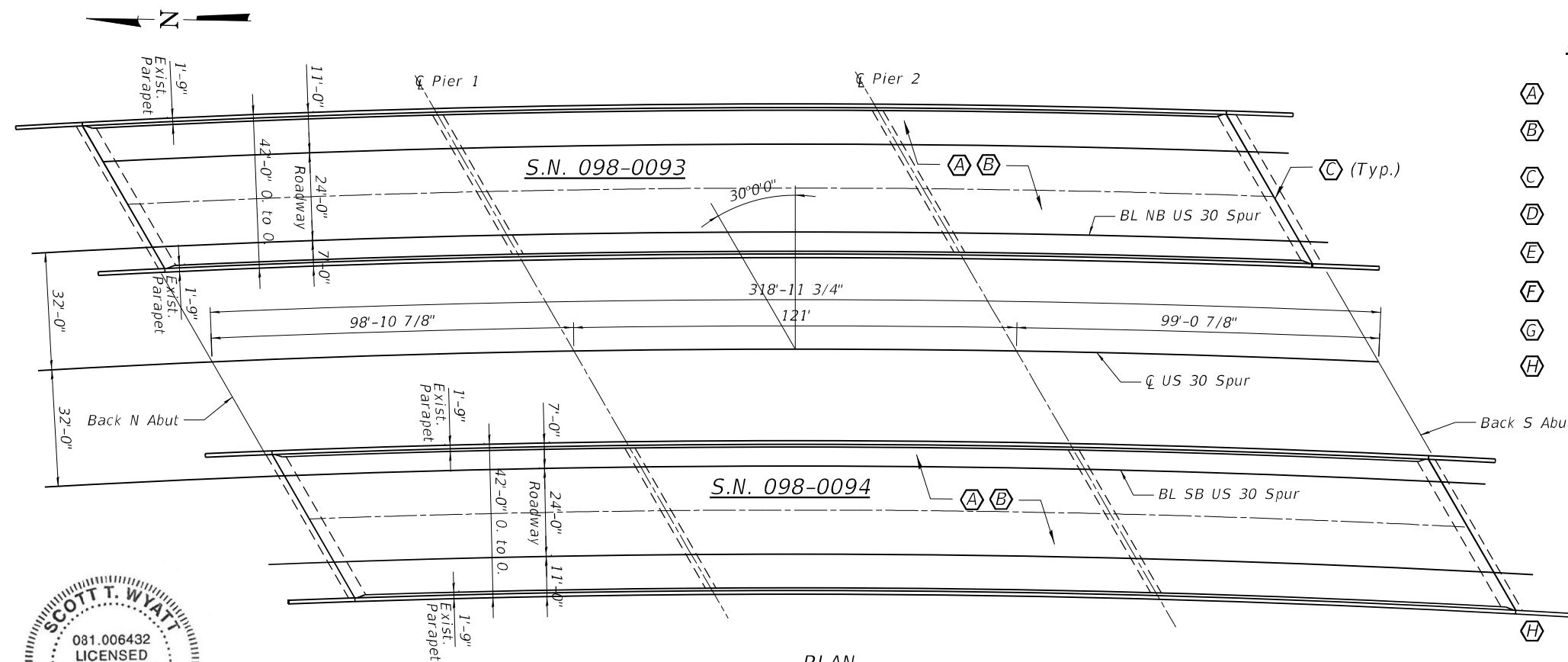


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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

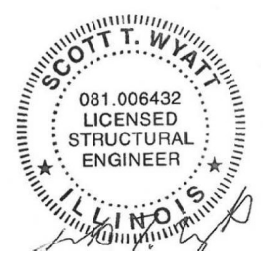
US 30 SPUR CROSSING ELKHORN CREEK AND I-88  
 SN 098-0092 0093, AND 0094 APPROACH PAVEMENT

F.A.P. RTE. 309 & 88	SECTION (195-3B, 195-3B)BDR	COUNTY WHITESIDE	TOTAL SHEETS 50	SHEET NO. 16
CONTRACT NO. 64S31				ILLINOIS FED. AID PROJECT HCT1087



**SCOPE OF WORK**

- (A) Deck Slab Repair
- (B) Scarify existing deck 2 1/2", install new 2 1/2" microsilica concrete overlay
- (C) Replace Expansion Joint
- (D) Barrier Rail Repairs
- (E) Barrier Rail Improvements
- (F) Abutment Repairs
- (G) Approach Repairs
- (H) Curb Repair



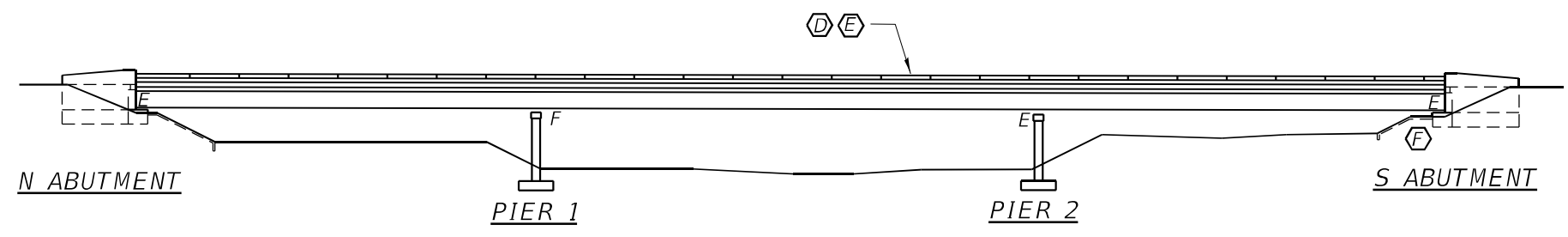
10-13-23  
Exp. 11-30-24

**PLAN**

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. Joint openings shall be adjusted in accordance with Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50°F. Protective coat shall be applied to all new concrete superstructure concrete and all new concrete overlays on the deck surface.

**GENERAL NOTES**

The structure numbers will remain the same SN 098-0093 and 098-0094. Plan dimensions and details relative to the 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 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. Traffic will be staged during construction of 098-0093. Traffic will be detoured during construction of 098-0094. The Contractor shall contact IDOT District 2 Engineer at 815-284-2271 a minimum of 72 hours before beginning work. Reinforcing bars designated (E) shall be epoxy coated.



**ELEVATION**

**TOTAL BILL OF MATERIAL**

(SN 098-0093 and 0094)

ITEM	UNIT	TOTAL
Protective Coat	Sq. Yd.	2721
Bridge Rail Removal	Foot	1272
Retrofit Concrete Parapet	Foot	1272
* Acrylic Coating	Sq. Yd.	989
Bar Splicers	Each	28
Deck Slab Repair (Full Depth Type I)	Sq. Yd.	20
Microsilica Concrete Overlay, 2 1/2"	Sq. Yd.	2721
Bridge Deck Grooving	Sq. Yd.	1696
Preformed Joint Strip Seal	Foot	186
Structural Repair of Concrete <= 5"	Sq. Ft.	250
Bridge Deck Scarification, 2 1/2"	Sq. Yd.	2721
Reinforcement Bars, Epoxy Coated	Pound	3720
Concrete Removal	Cu. Yd.	38
Concrete Superstructure	Cu. Yd.	38

\* On Existing Parapet and Parapet Retrofit

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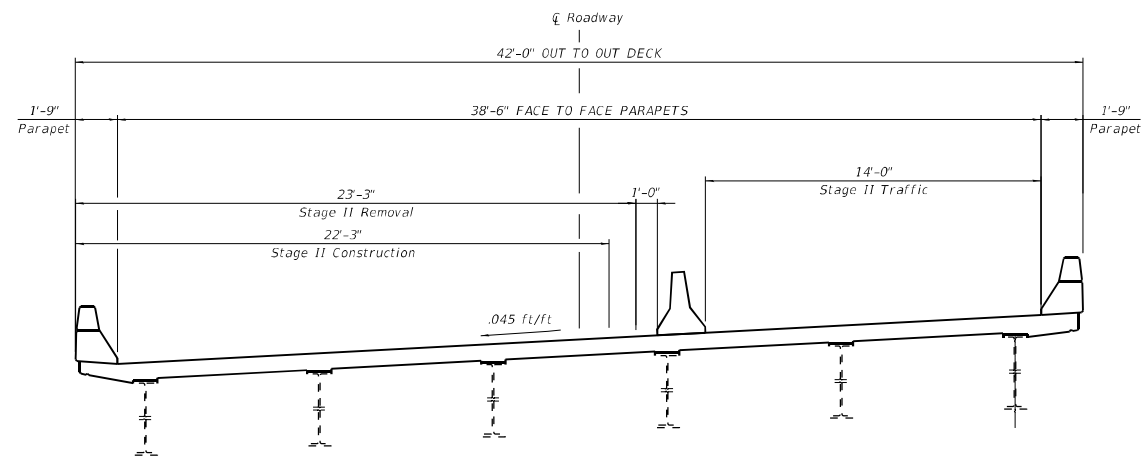


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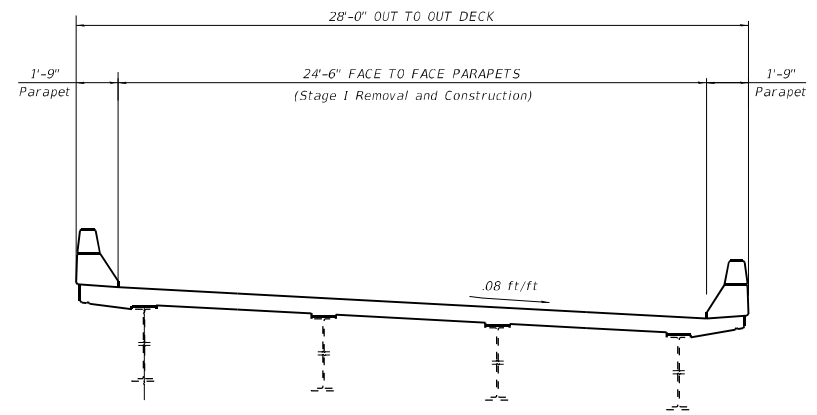
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US 30 SPUR CROSSING ELKHORN CREEK AND I-88  
098-0093 AND 098-0094 PLAN AND ELEVATION

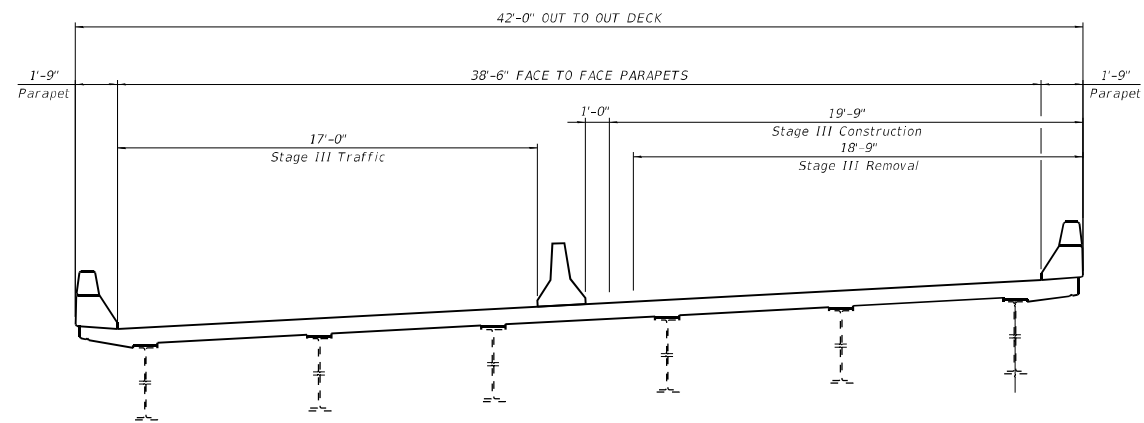
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ILLINOIS FED. AID PROJECT HCHT1087)			CONTRACT NO. 64S31	



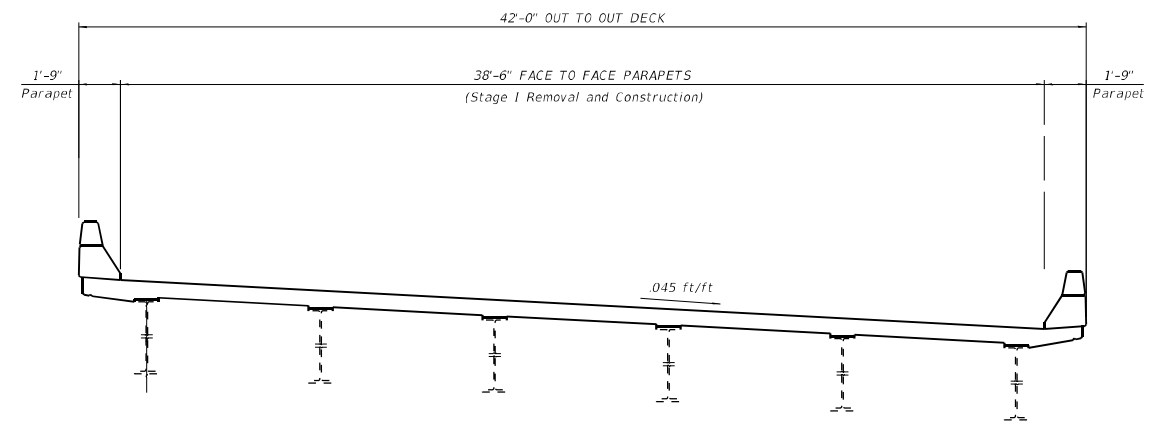
**S.N. 098-0093 DECK CROSS SECTION STAGE I**  
(Looking North)



**S.N. 098-0092 DECK CROSS SECTION**  
(Looking West, Closed for Construction)



**S.N. 098-0093 DECK CROSS SECTION STAGE II**  
(Looking North)



**S.N. 098-0094 DECK CROSS SECTION**  
(Looking South, Closed for Construction)

MODEL: Default  
FILE NAME: \\kpff.com\dis\Bridges\2300222 (WO 2 - US 30 64S31)02\_Design (MS)\64S31-18 - Typ Sec.dgn



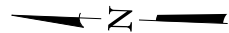
1500 Sherman Ave, Suite 1020  
Evanston, IL 60201  
847-859-7790  
www.kpff.com

USER NAME =	DESIGNED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DRAWN -	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US 30 SPUR CROSSING ELKHORN CREEK AND I-88  
TYPICAL SECTION SN 098-0093, 0094 AND 0092

F.A.P. RTE. 309 & 88	SECTION (195-3B, 195-3HB)BDR	COUNTY WHITESIDE	TOTAL SHEETS 50	SHEET NO. 18
CONTRACT NO. 64S31				ILLINOIS FED. AID PROJECT HCT1087



☿ Pier 1

☿ Pier 2

S.N. 098-0093

Scarify Bridge Deck 2 1/2"  
Install 2 1/2" Microsilica Concrete Overlay

PLAN

☿ US 30 Spur

Back S Abut

Back N Abut

S.N. 098-0094

Legend



Deck Slab Repair (Full Depth Type I)

NOTES:  
PATCHES SHOWN ARE POTENTIAL AREAS OF DECK SLAB REPAIR.  
ACTUAL AREAS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

Date of Survey: 4/27/2023

MODEL: Default  
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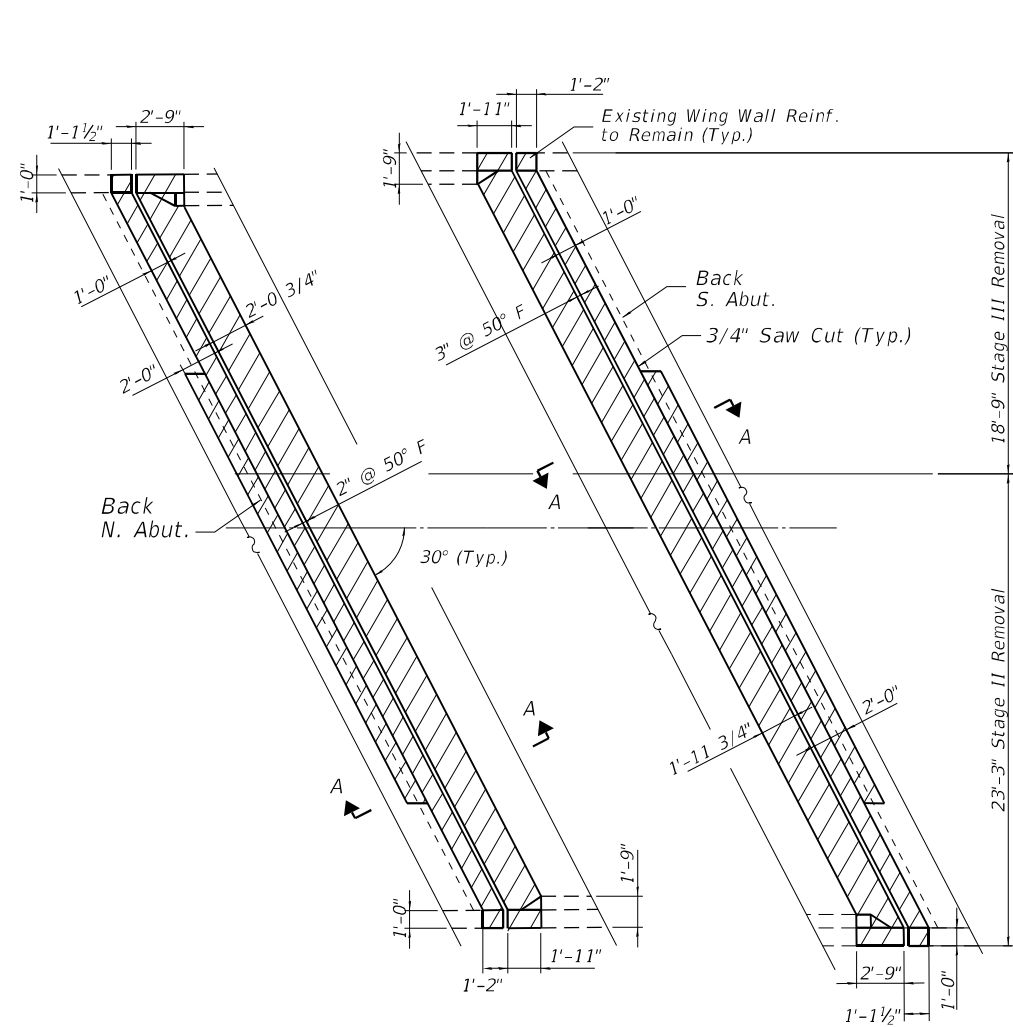


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PLOT DATE =	DRAWN -	REVISED -
	CHECKED -	REVISED -

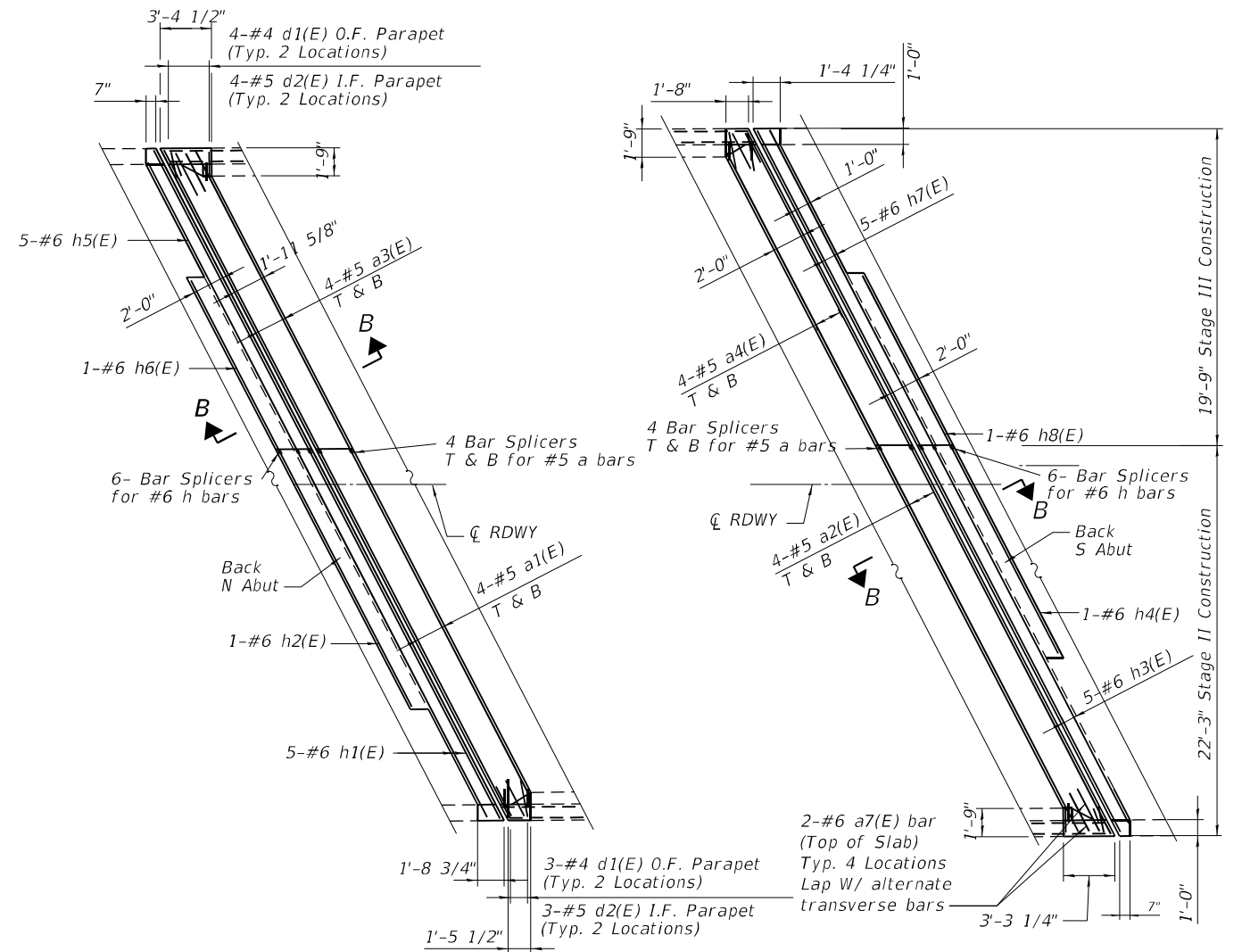
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US 30 SPUR CROSSING ELKHORN CREEK AND I-88  
SN 098-0093 AND 0094 DECK REPAIRS

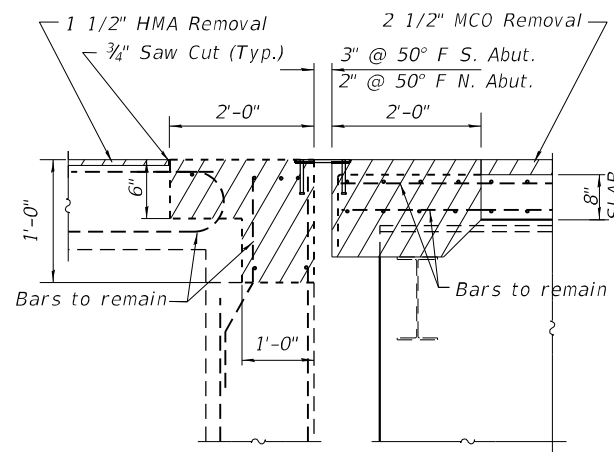
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ILLINOIS FED. AID PROJECT HCH1087)				CONTRACT NO. 64S31



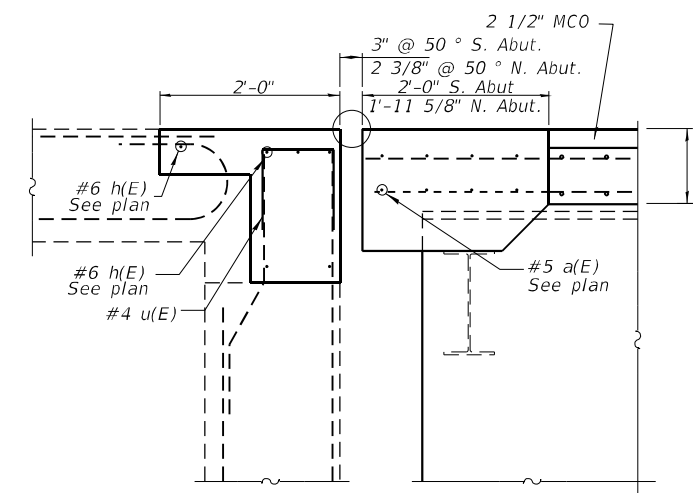
CONCRETE REMOVAL @ EXP JOINT PLAN



CONCRETE REPLACEMENT @ EXP JOINT PLAN



SECTION A-A



SECTION B-B

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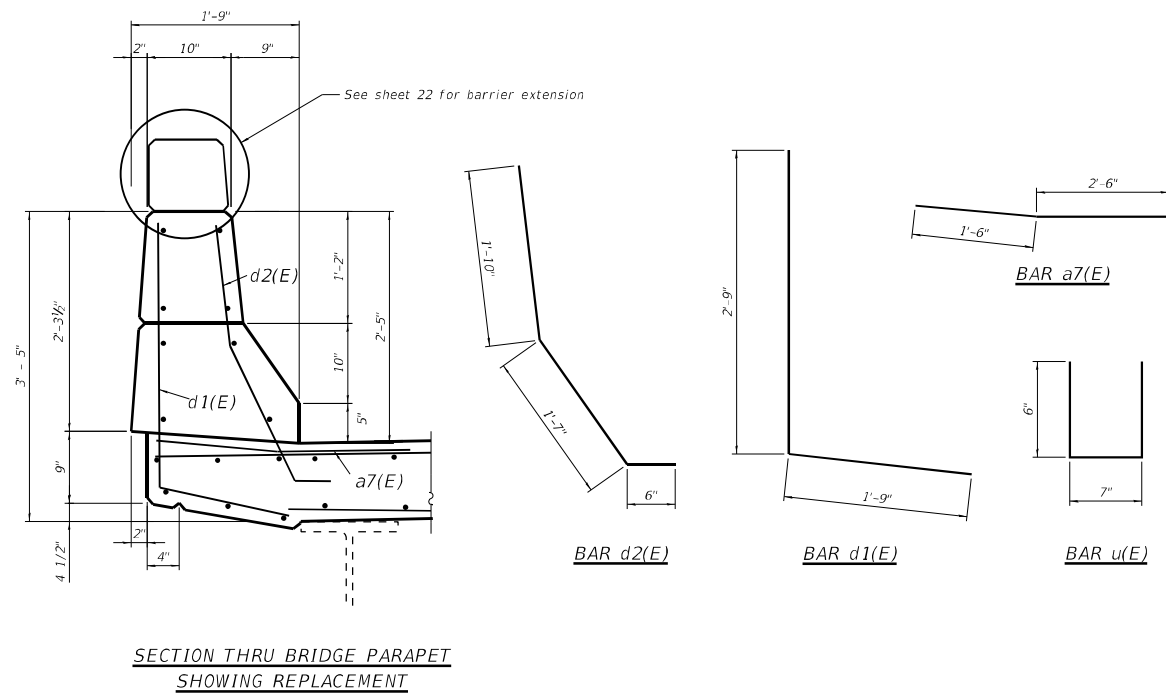
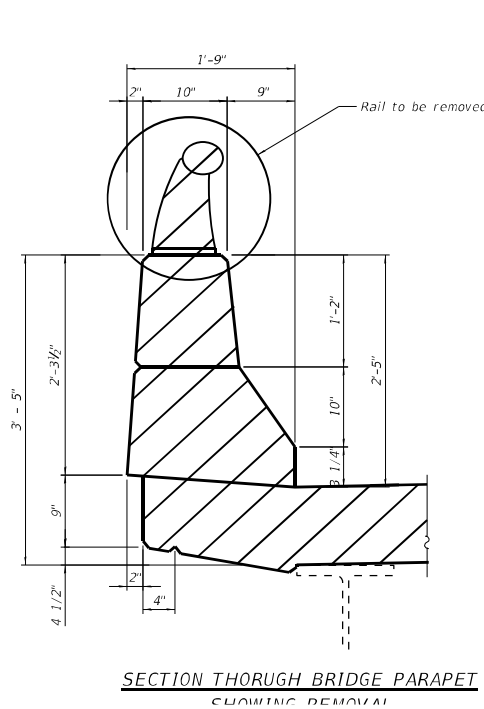
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

US 30 SPUR CROSSING ELKHORN CREEK AND I-88  
 098-0093 JOINT REPLACEMENT PLAN

F.A.P. RTE. 309 & 88	SECTION (195-3B, 195-3B)BDR	COUNTY WHITESIDE	TOTAL SHEETS 50	SHEET NO. 20
CONTRACT NO. 64S31				
ILLINOIS FED. AID PROJECT HCHT087				







**BILL OF MATERIAL**  
(SN 098-0093)

Bar	No.	Size	Length	Shape
a1(E)	8	5	23'-9"	—
a2(E)	8	5	25'-1"	—
a3(E)	8	5	20'-9"	—
a4(E)	8	5	22'-0"	—
a7(E)	8	6	4'-0"	—
h1(E)	5	6	29'-5"	—
h2(E)	1	6	12'-11"	—
h3(E)	5	6	20'-5"	—
h4(E)	1	6	11'-5"	—
h5(E)	5	6	5'-6"	—
h6(E)	1	5	3'-11"	—
h7(E)	5	6	1'-7"	—
h8(E)	1	5	20'-5"	—
d1(E)	14	4	5'-6"	L
d2(E)	14	5	3'-11"	L
u(E)	90	4	1'-7"	U
Concrete Removal			Cu. Yd	19
Concrete Superstructure			Cu. Yd	19
Bar Splicers			Each	28
Reinforcing Bars, Epoxy Coated			Pound	1793

**BILL OF MATERIAL**  
(SN 098-0094)

Bar	No.	Size	Length	Shape
a5(E)	8	5	48'-1"	—
a6(E)	8	5	51'-0"	—
a7(E)	8	6	4'-0"	—
h9(E)	5	6	48'-1"	—
h10(E)	1	6	27'-3"	—
h11(E)	5	6	51'-0"	—
h12(E)	1	6	28'-11"	—
d1(E)	14	4	5'-6"	L
d2(E)	14	5	3'-11"	L
u(E)	90	4	1'-7"	U
Concrete Removal			Cu. Yd	19
Concrete Superstructure			Cu. Yd	19
Reinforcing Bars, Epoxy Coated			Pound	1927

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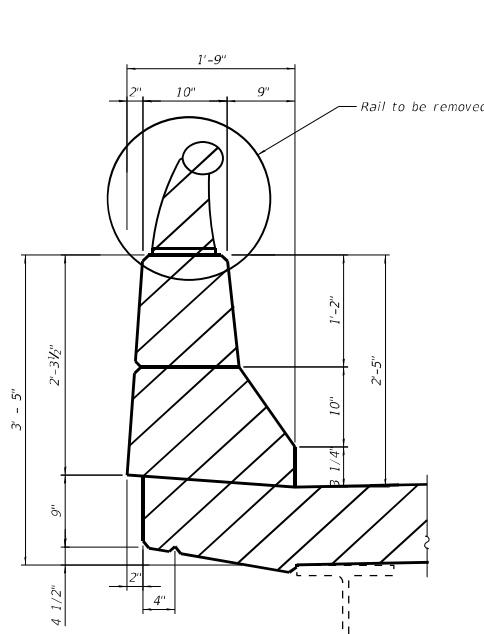


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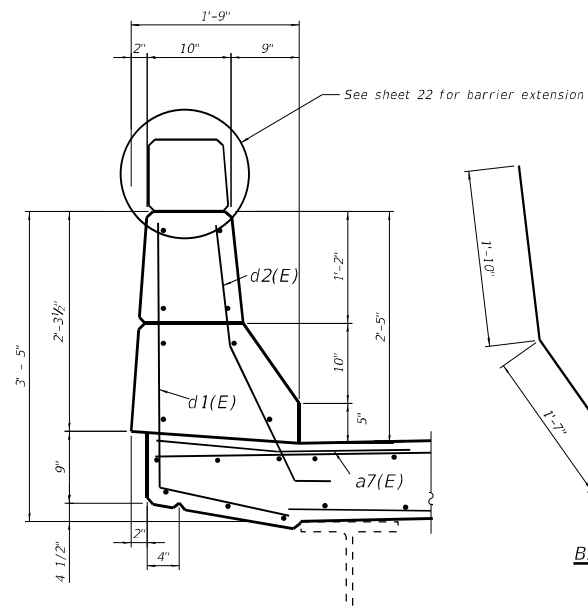
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US 30 SPUR CROSSING ELKHORN CREEK AND I-88  
JOINT DETAILS

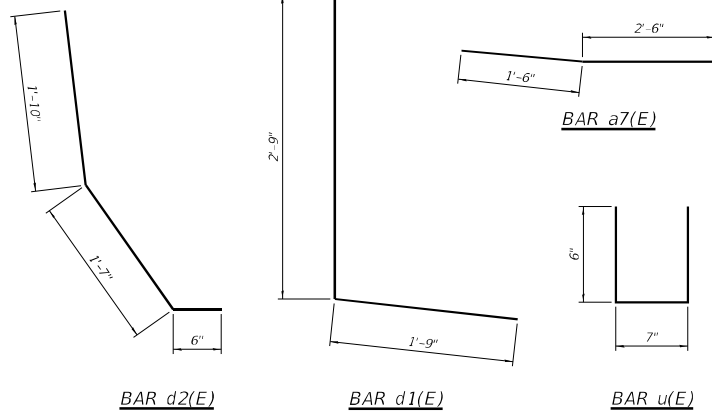
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ILLINOIS FED. AID PROJECT HCHT1087			CONTRACT NO. 64S31	



SECTION THRU BRIDGE PARAPET  
SHOWING REMOVAL



SECTION THRU BRIDGE PARAPET  
SHOWING REPLACEMENT

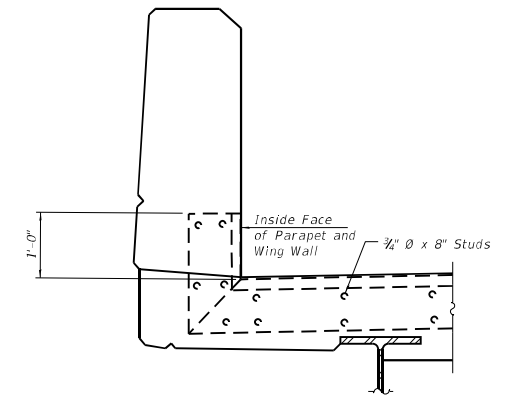


**BILL OF MATERIAL**  
(SN 098-0093)

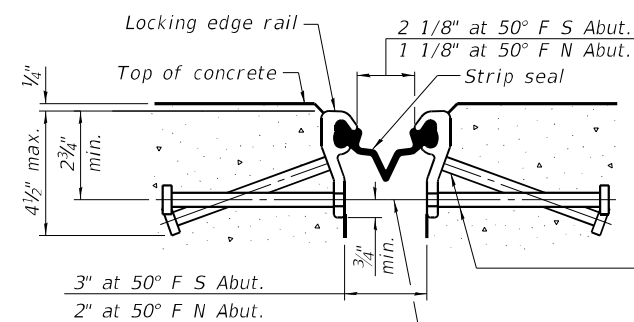
Bar	No.	Size	Length	Shape
a1(E)	8	5	23'-9"	—
a2(E)	8	5	25'-1"	—
a3(E)	8	5	20'-9"	—
a4(E)	8	5	22'-0"	—
a7(E)	8	6	4'-0"	—
h1(E)	5	6	29'-5"	—
h2(E)	1	6	12'-11"	—
h3(E)	5	6	20'-5"	—
h4(E)	1	6	11'-5"	—
h5(E)	5	6	5'-6"	—
h6(E)	1	5	3'-11"	—
h7(E)	5	6	1'-7"	—
h8(E)	1	5	20'-5"	—
d1(E)	14	4	5'-6"	┌
d2(E)	14	5	3'-11"	┌
u(E)	90	4	1'-7"	┌
Concrete Removal		Cu. Yd	19	
Concrete Superstructure		Cu. Yd	19	
Bar Splicers		Each	28	
Reinforcing Bars, Epoxy Coated		Pound	1793	

**BILL OF MATERIAL**  
(SN 098-0094)

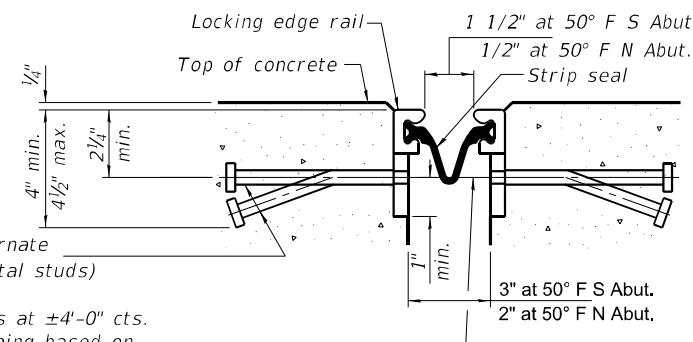
Bar	No.	Size	Length	Shape
a5(E)	8	5	48'-1"	—
a6(E)	8	5	51'-0"	—
a7(E)	8	6	4'-0"	—
h9(E)	5	6	48'-1"	—
h10(E)	1	6	27'-3"	—
h11(E)	5	6	51'-0"	—
h12(E)	1	6	28'-11"	—
d1(E)	14	4	5'-6"	┌
d2(E)	14	5	3'-11"	┌
u(E)	90	4	1'-7"	┌
Concrete Removal		Cu. Yd	19	
Concrete Superstructure		Cu. Yd	19	
Reinforcing Bars, Epoxy Coated		Pound	1927	



SECTION @ Joint



SHOWING ROLLED RAIL JOINT

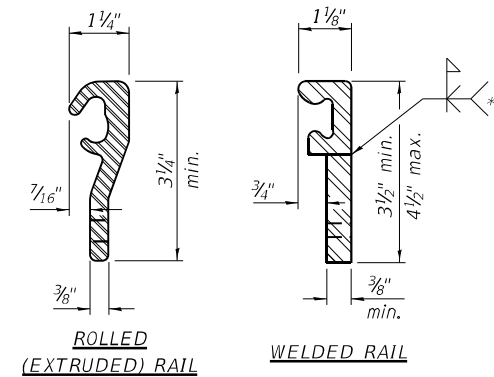


SHOWING WELDED RAIL JOINT

\* 5/8" Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)  
 3/8" Ø threaded rods in 7/16" Ø holes at ±4'-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

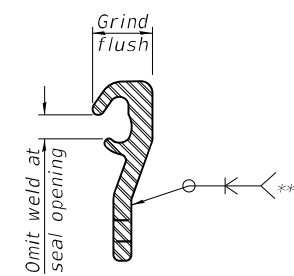
**SECTION A-A**

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



**LOCKING EDGE RAILS**

\*\* Back gouge not required if complete joint penetration is verified by mock-up.



**LOCKING EDGE RAIL SPLICE**

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

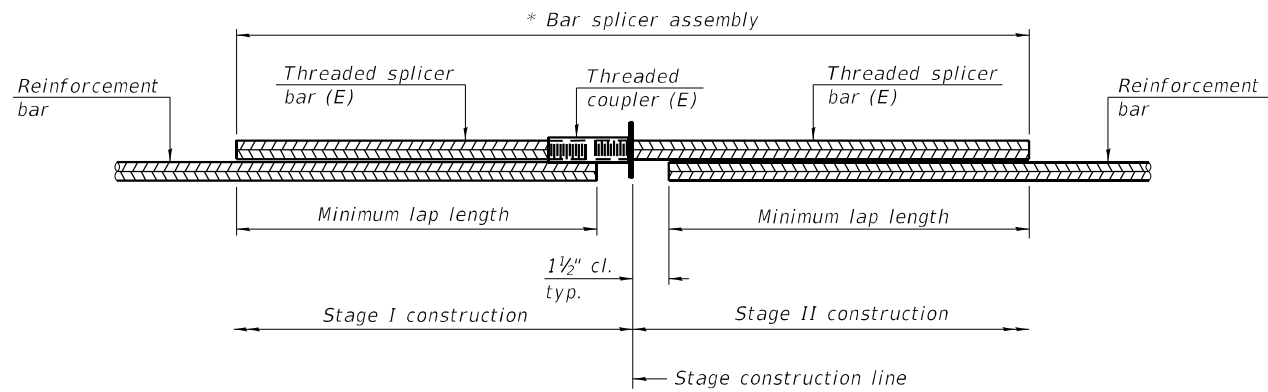
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 1500 Sherman Ave, Suite 1020  
 Evanston, IL 60201  
 847-859-7790  
 www.kpff.com

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PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DRAWN -	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

US 30 SPUR CROSSING ELKHORN CREEK AND I-88  
 JOINT DETAILS

F.A.P. RTE. 309 & 88	SECTION (195-3B, 195-3B)BDR	COUNTY WHITESIDE	TOTAL SHEETS 50	SHEET NO. 22
ILLINOIS FED. AID PROJECT HCT1087)			CONTRACT NO. 64S31	

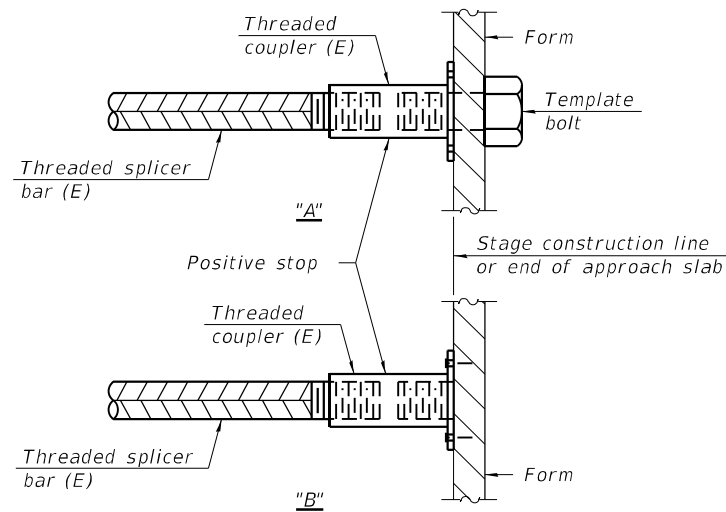


**STANDARD BAR SPLICER ASSEMBLY PLAN**  
 (All components shall be provided from one supplier)

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Deck	#5	16	3'-6"
Abutment	#6	12	4'-0"



**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.

"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.

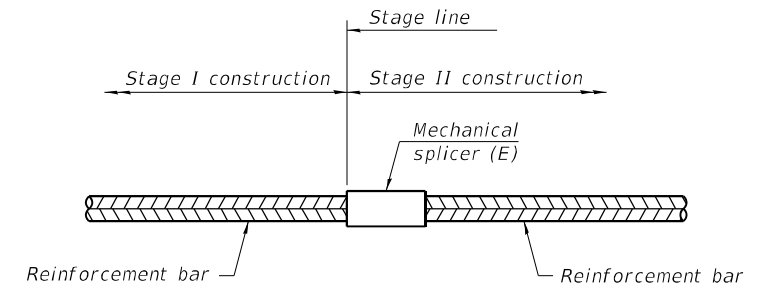
**Notes:**

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.



**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required

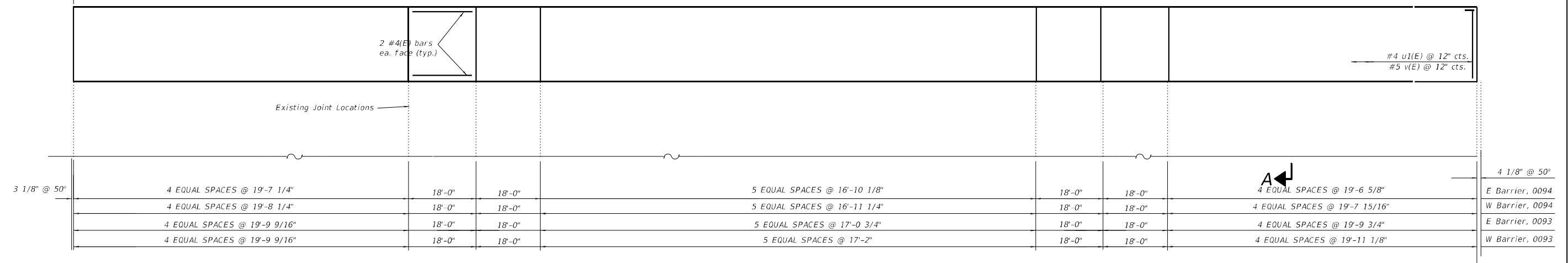
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PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DRAWN -	REVISED -
	CHECKED -	REVISED -

F.A.P. RTE. 309 & 88	SECTION (195-3B, 195-3B)BDR	COUNTY WHITESIDE	TOTAL SHEETS 50	SHEET NO. 23
CONTRACT NO. 64S31				
ILLINOIS FED. AID PROJECT HCT1087				

- 310'-3" E Barrier, 0094
- 311'-8" W Barrier, 0094
- 313'-1" E. Barrier, 0093
- 314'-6" W Barrier, 0093

A ↙

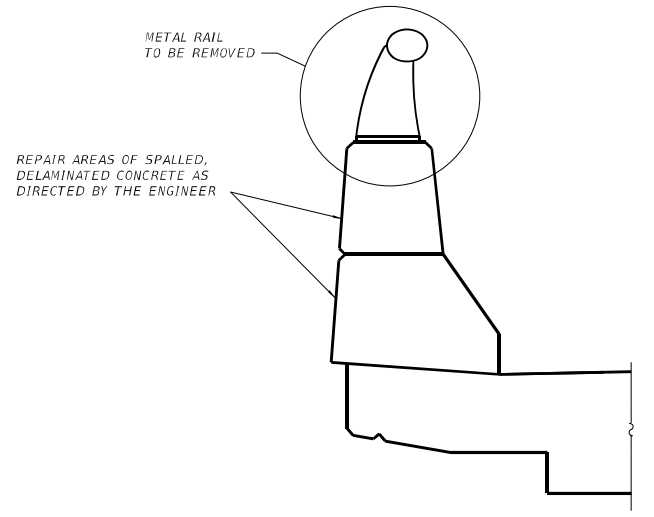


If the anchorage section of the approach guardrail conflicts with the barrier improvements, it shall be removed during rail removal and replaced after the barrier concrete has cured. Cost included with Remove Barrier Rail.

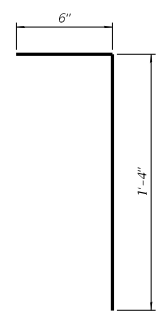
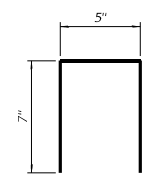
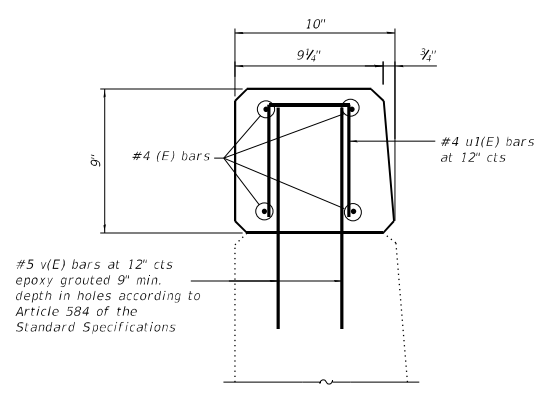
**NOTES**

1. All exposed edges shall be chamfered 3/4"
2. Cost of all materials, labor and equipment to complete the work as detailed and specified in the Special Provisions shall be included in the cost of "Retrofit Concrete Parapet" with the exception of Bridge Rail removal and Acrylic Coating.
3. Retrofit Concrete Parapet shall be used on both sides of the structures over the full length of the structures.
4. Acrylic Coating to be applied to inside face, outside face and top surface of the existing and reconstructed parapet.

**INSIDE ELEVATION**



EXISTING BARRIER SECTION



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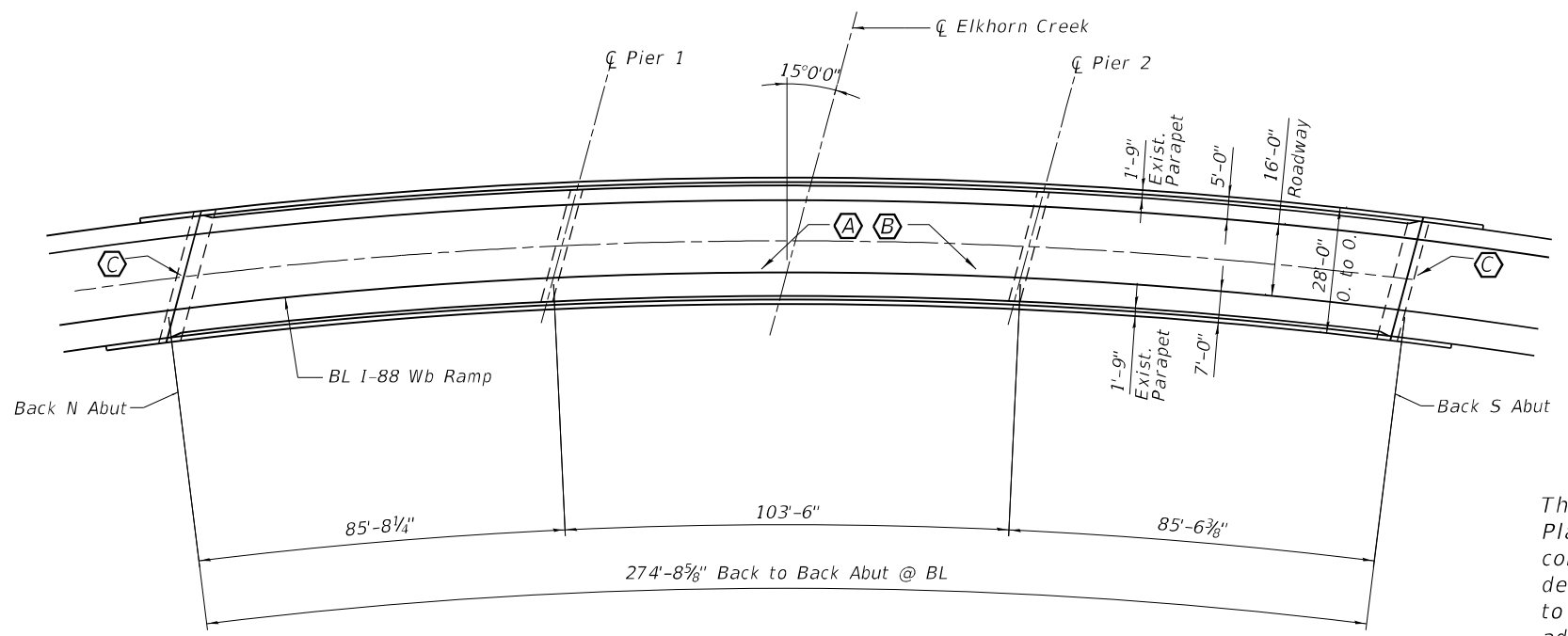
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US 30 SPUR CROSSING ELKHORN CREEK AND I-88  
BARRIER IMPROVEMENTS SN 0093 AND 0094

F.A.P RT.E. 309 & 88	SECTION (195-3B, 195-3HB)BDR	COUNTY WHITESIDE	TOTAL SHEETS 50	SHEET NO. 24
CONTRACT NO. 64S31				ILLINOIS FED. AID PROJECT HCHT1087

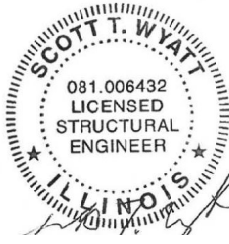


PLAN

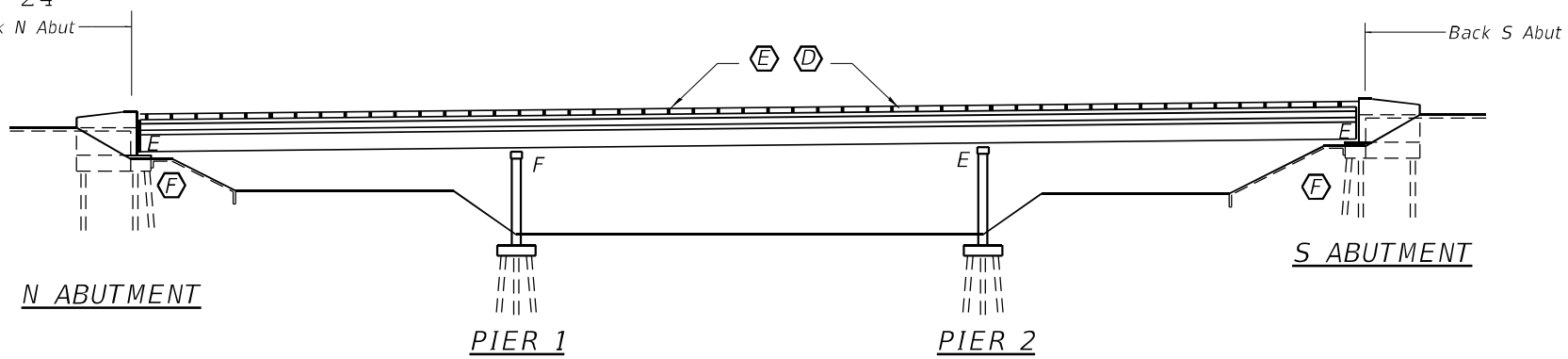
- (A) Deck Slab Repair
- (B) Scarify existing deck 2 1/2", install new 2 1/2" microsilica concrete overlay
- (C) Expansion Joint Replacement
- (D) Barrier Rail Repairs
- (E) Barrier Rail Improvements
- (F) Abutment Repairs

**GENERAL NOTES**

The structure number will remain the same SN 098-0092  
 Plan dimensions and details relative to the 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 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. Traffic will be detoured during construction.  
 Reinforcement bars designated (E) shall be epoxy coated.  
 Joint openings shall be adjusted in accordance with Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50°F.  
 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.  
 Protective coat shall be applied to all new concrete superstructure and all new concrete overlays on the deck.



10-13-23  
 Exp. 11-30-24



ELEVATION

**TOTAL BILL OF MATERIAL**

(SN 098-0092)

ITEM	UNIT	TOTAL
Concrete Superstructure	Sq. Yd.	749
Concrete Removal	Cu Yd	8
Protective Coat	Sq. Yd.	749
Bridge Rail Removal	Foot	550
Retrofit Concrete Parapet	Foot	550
* Acrylic Coating	Sq. Yd.	430
Reinforcment Bars, Epoxy Coated	Pound	1138
Deck Slab Repair (Partial)	Sq. Yd.	16
Microsilica Concrete Overlay, 2 1/2"	Sq. Yd	749
Bridge Deck Grooving	Sq. Yd.	367
Preformed Joint Strip Seal	Foot	55
Structural Repair of Concrete <= 5"	Sq. Ft.	140
Bridge Deck Scarification, 2 1/2"	Sq. Yd	749

\* On Existing Parapet and Parapet Retrofit

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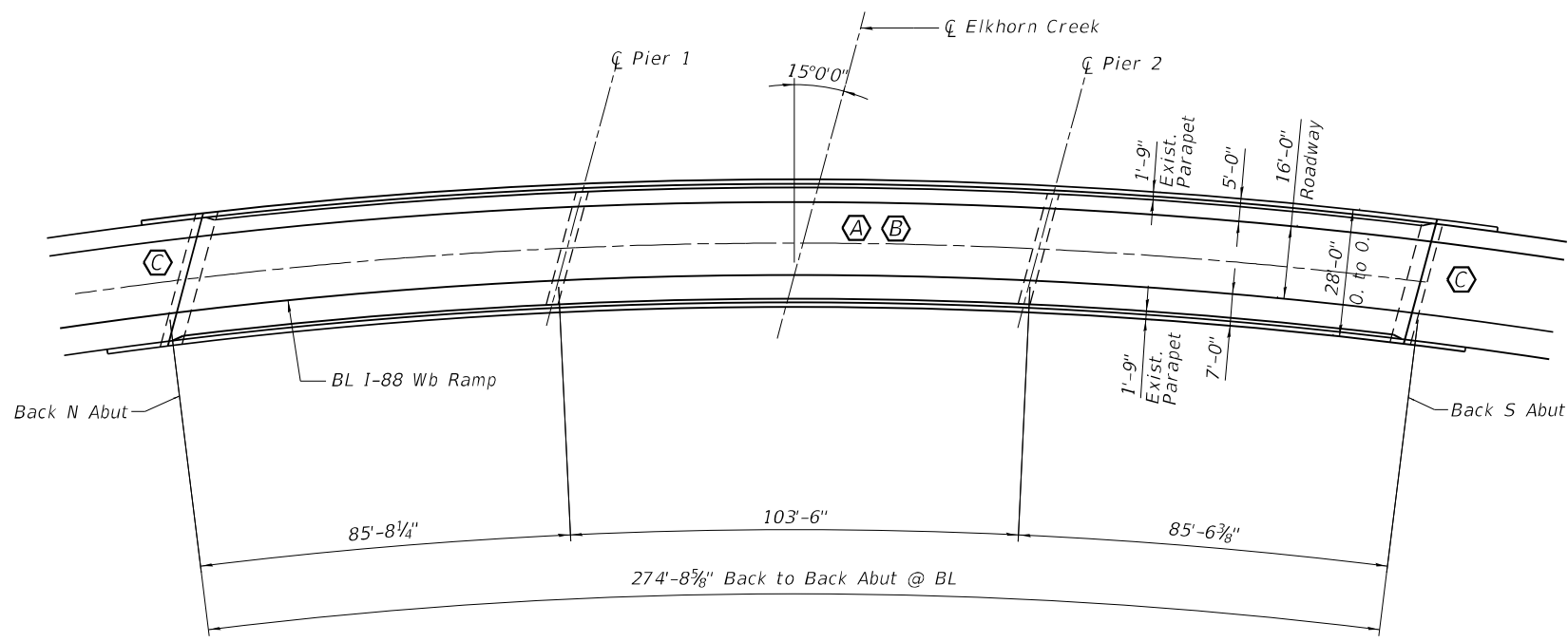


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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

US 30 SPUR CROSSING ELKHORN CREEK AND I-88  
 SN 098-0092 PLAN AND ELEVATION

F.A.P. RTE. 309 & 88	SECTION (195-3B, 195-3B)BDR	COUNTY WHITESIDE	TOTAL SHEETS 50	SHEET NO. 26
ILLINOIS FED. AID PROJECT HCHT1087			CONTRACT NO. 64S31	



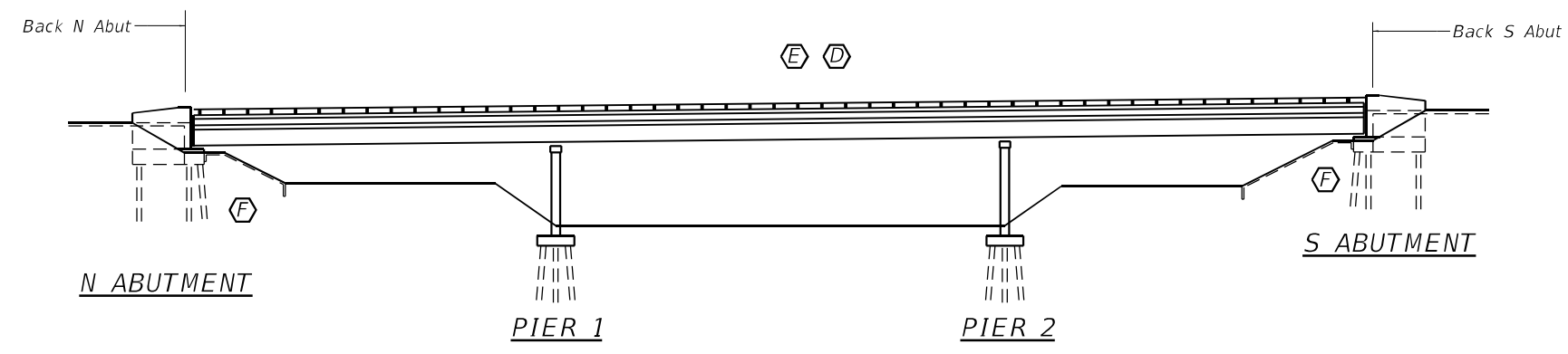
PLAN

- (A) Deck Slab Repair
- (B) Scarify existing deck 2 1/2", install new 2 1/2" microsilica concrete overlay
- (C) Expansion Joint Replacement
- (D) Barrier Rail Repairs
- (E) Barrier Rail Improvements
- (F) Abutment Repairs

SCOTT T. WYATT  
 081.006432  
 LICENSED  
 STRUCTURAL  
 ENGINEER  
 ILLINOIS  
 10-13-23  
 Exp. 11-30-24

**GENERAL NOTES**

The structure number will remain the same SN 098-0092  
 Plan dimensions and details relative to the 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 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.  
 Traffic will be detoured during construction.  
 Reinforcement bars designated (E) shall be epoxy coated.



ELEVATION

**TOTAL BILL OF MATERIAL**

(SN 098-0092)

ITEM	UNIT	TOTAL
Concrete Superstructure	Sq. Yd.	749
Concrete Removal	Cu Yd	8
Protective Coat	Sq. Yd.	749
Bridge Rail Removal	Foot	550
Retrofit Concrete Parapet	Foot	550
* Acrylic Coating	Sq. Yd.	430
Reinforcement Bars, Epoxy Coated	Pound	1138
Deck Slab Repair (Partial)	Sq. Yd.	16
Microsilica Concrete Overlay, 2 1/2"	Sq. Yd	749
Bridge Deck Grooving	Sq. Yd.	367
Preformed Joint Seal	Foot	55
Structural Repair of Concrete <= 5"	Sq. Ft.	140
Bridge Deck Scarification, 2 1/2"	Sq. Yd	749

\* On Existing Parapet and Parapet Retrofit

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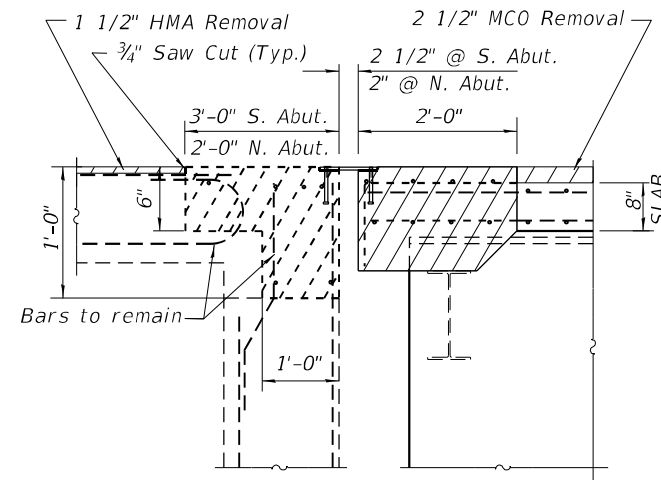


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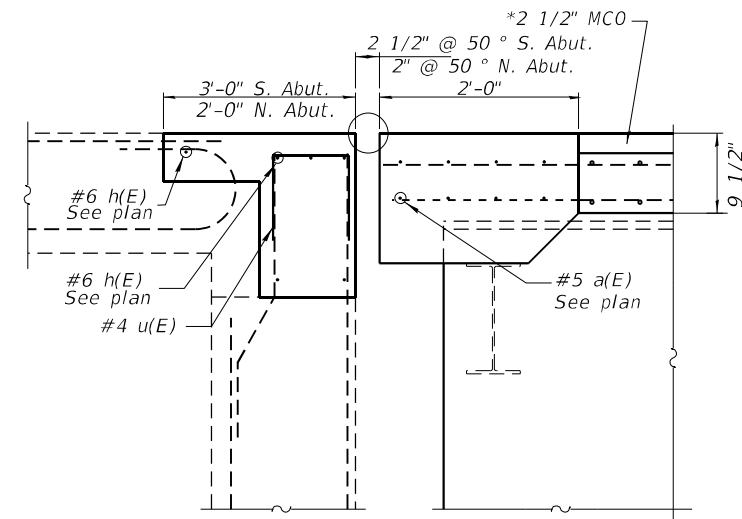
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

US 30 SPUR CROSSING ELKHORN CREEK AND I-88  
 SN 098-0092 PLAN AND ELEVATION

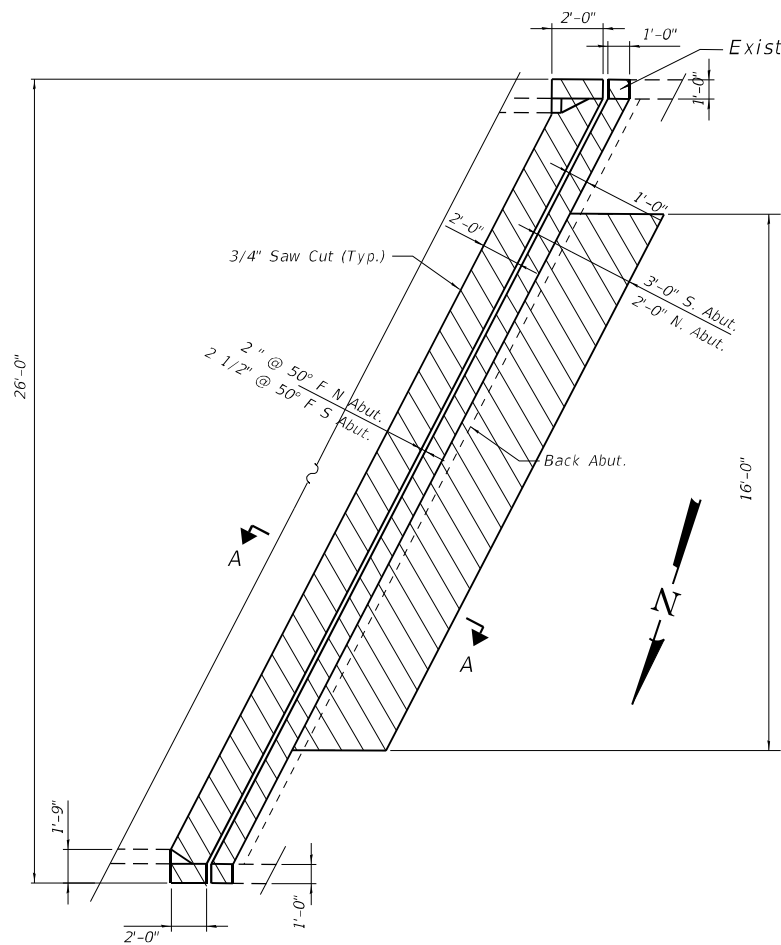
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ILLINOIS FED. AID PROJECT HCHT1087				CONTRACT NO. 64S31



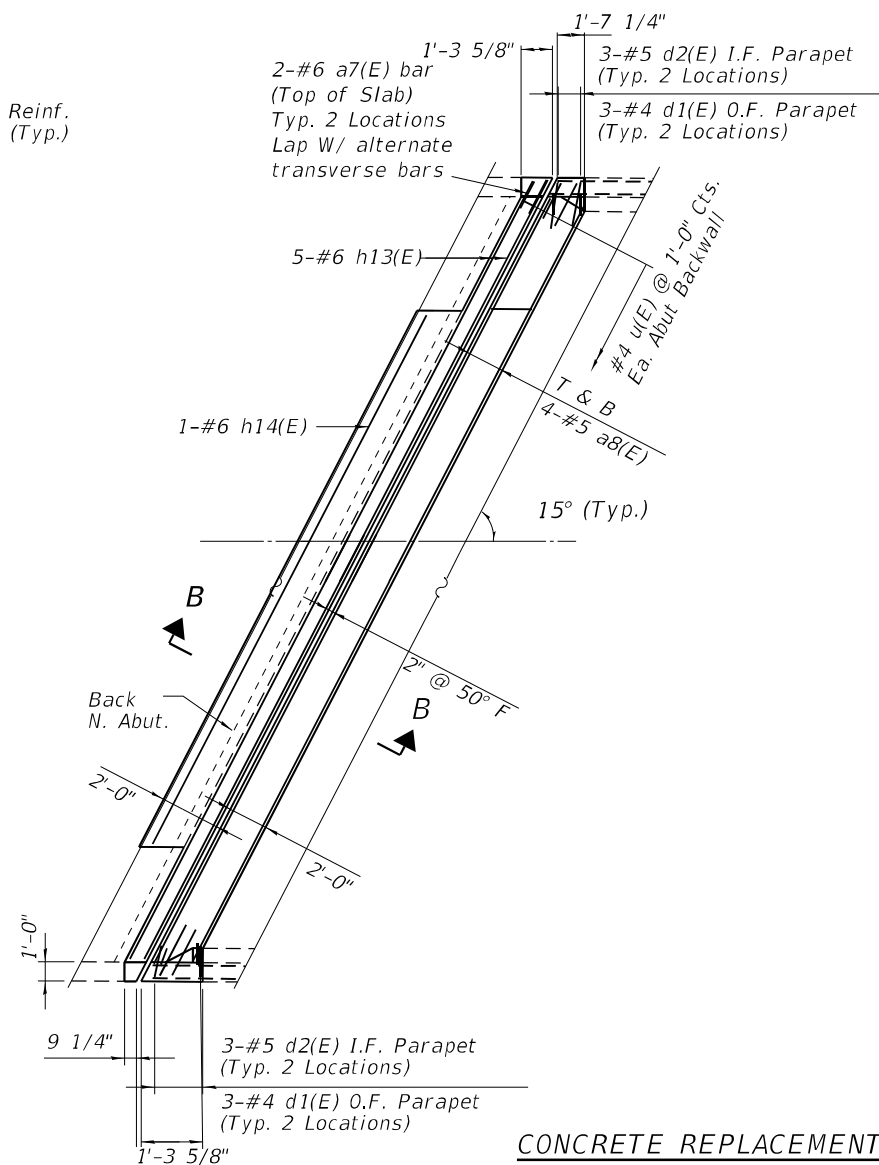
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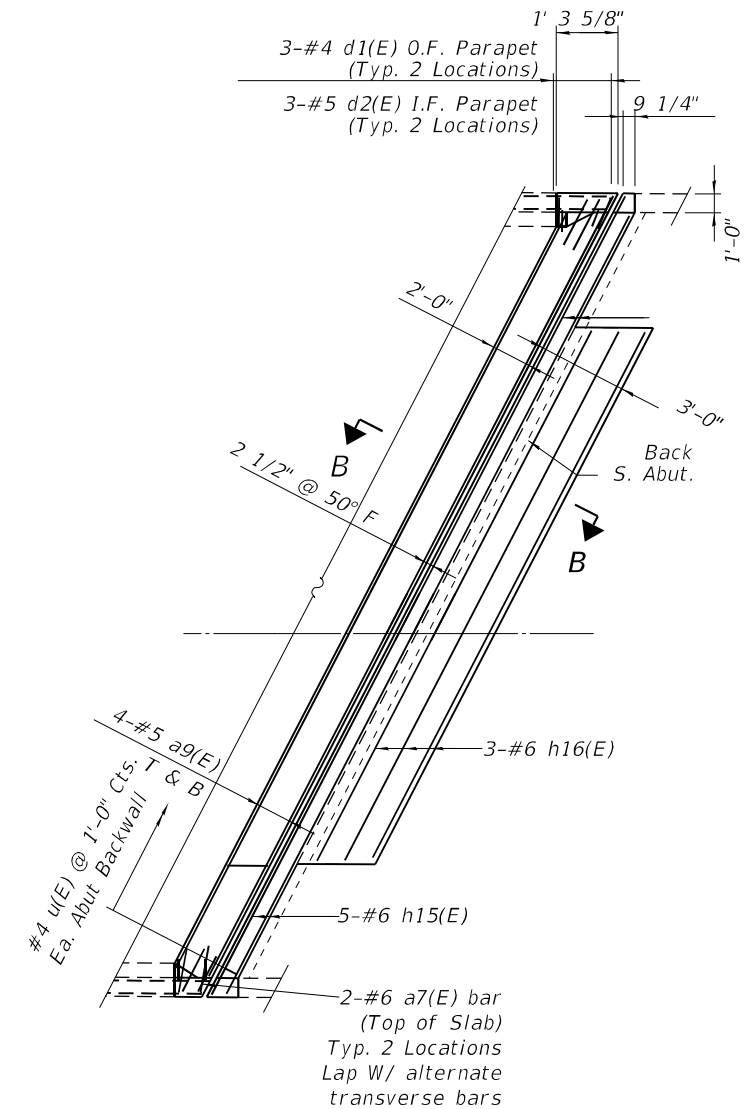
SECTION B-B  
\*Prior to 1/4\"/>



CONCRETE REMOVAL @ EXPANSION JOINT PLAN



CONCRETE REPLACEMENT @ EXPANSION JOINT PLAN



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 DEPARTMENT OF TRANSPORTATION

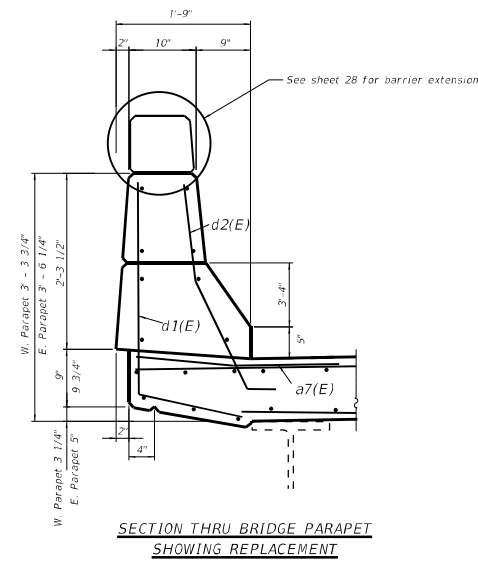
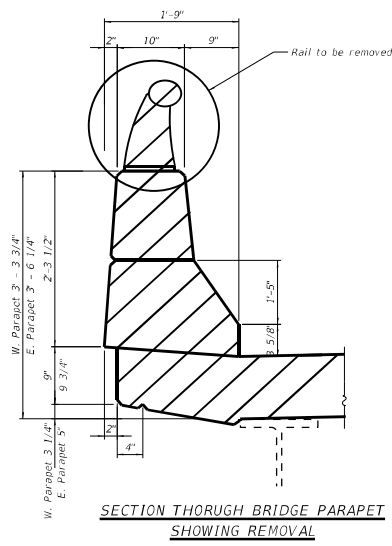
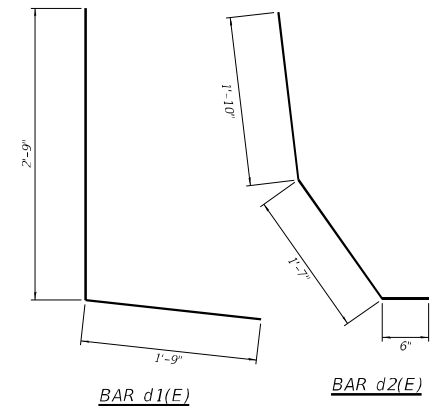
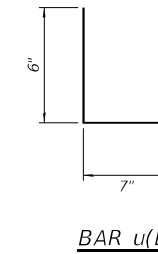
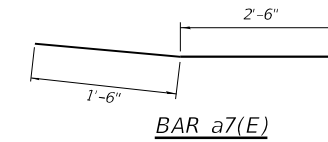
US 30 SPUR CROSSING ELKHORN CREEK AND I-88  
 SN 098-0092 JOINT REPLACEMENT

F.A.P. RTE. 309 & 88	SECTION (195-3B, 195-3B)BDR	COUNTY WHITESIDE	TOTAL SHEETS 50	SHEET NO. 28
CONTRACT NO. 64S31				
ILLINOIS FED. AID PROJECT HCHT087				



**BILL OF MATERIAL**  
SN 098-0092

Bar	No.	Size	Length	Shape
a8(E)	8	5	29'-10"	—
a7(E)	8	6	4'-0"	—
a8(E)	8	5	27'-11"	—
h13(E)	5	5	29'-10"	—
h14(E)	1	6	16'-11"	—
h15(E)	5	5	27'-11"	—
h16(E)	3	6	15'-10"	—
d1(E)	12	4	5'-6"	L
d2(E)	12	5	3'-11"	L
u(E)	54	4	1'-7"	U
Concrete Removal			Cu. Yd	8
Concrete Superstructure			Cu. Yd	8
Reinforcing Bars, Epoxy Coated			Pound	1138



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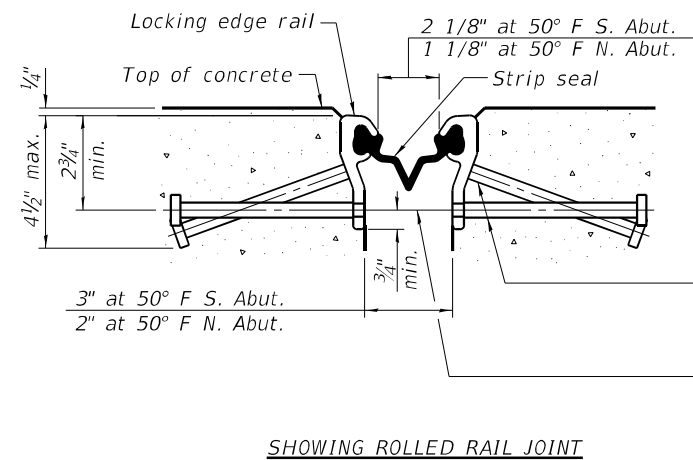
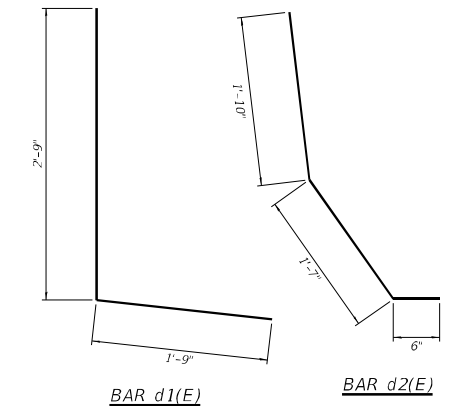
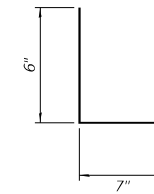
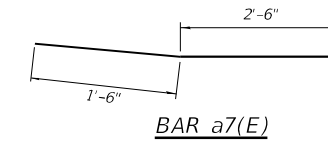
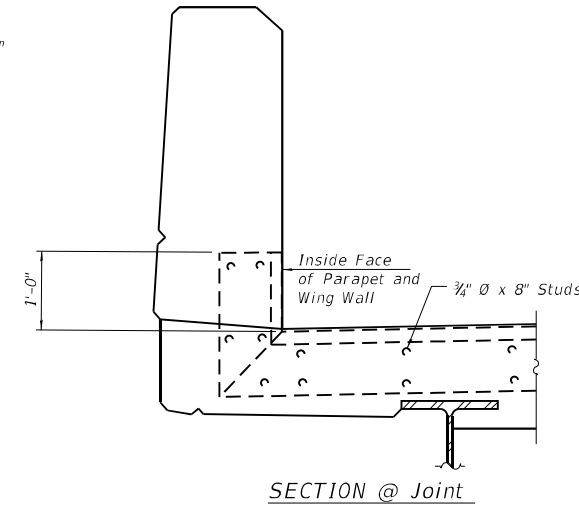
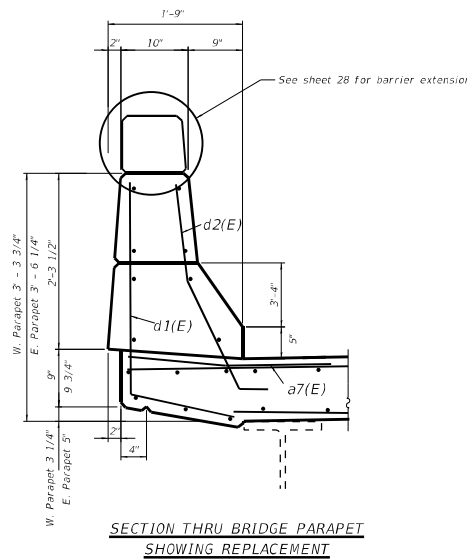
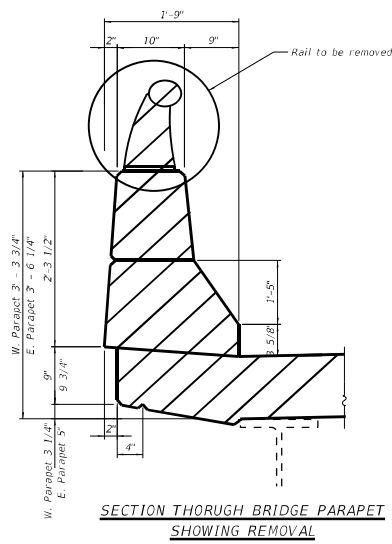
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US 30 SPUR CROSSING ELKHORN CREEK AND I-88  
SN 098-0092 JOINT DETAILS

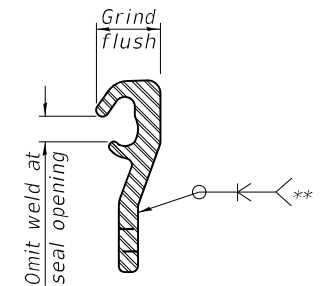
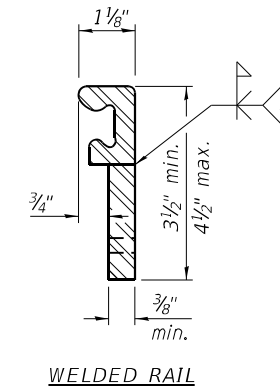
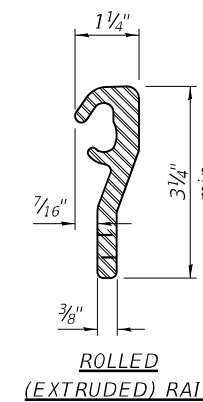
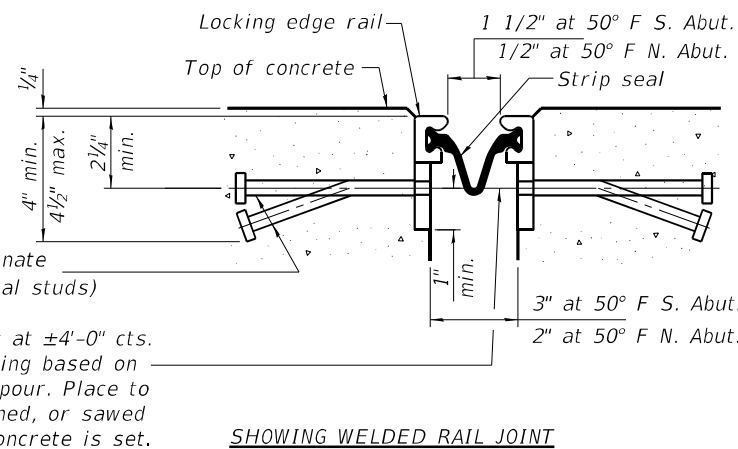
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ILLINOIS FED. AID PROJECT HCT1087			CONTRACT NO. 64S31	

**BILL OF MATERIAL**  
SN 098-0092

Bar	No.	Size	Length	Shape
a8(E)	8	5	29'-10"	—
a7(E)	8	6	4'-0"	—
a8(E)	8	5	27'-11"	—
h13(E)	5	5	29'-10"	—
h14(E)	1	6	16'-11"	—
h15(E)	5	5	27'-11"	—
h16(E)	3	6	15'-10"	—
d1(E)	12	4	5'-6"	—
d2(E)	12	5	3'-11"	—
u(E)	54	4	1'-7"	—
Concrete Removal			Cu. Yd	8
Concrete Superstructure			Cu. Yd	8
Reinforcing Bars, Epoxy Coated			Pound	1138



\* 5/8" Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)  
3/8" φ threaded rods in 7/16" φ holes at ±4'-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.



**LOCKING EDGE RAILS**

\*\* Back gouge not required if complete joint penetration is verified by mock-up.

**LOCKING EDGE RAIL SPLICE**

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

**SECTION A-A**

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

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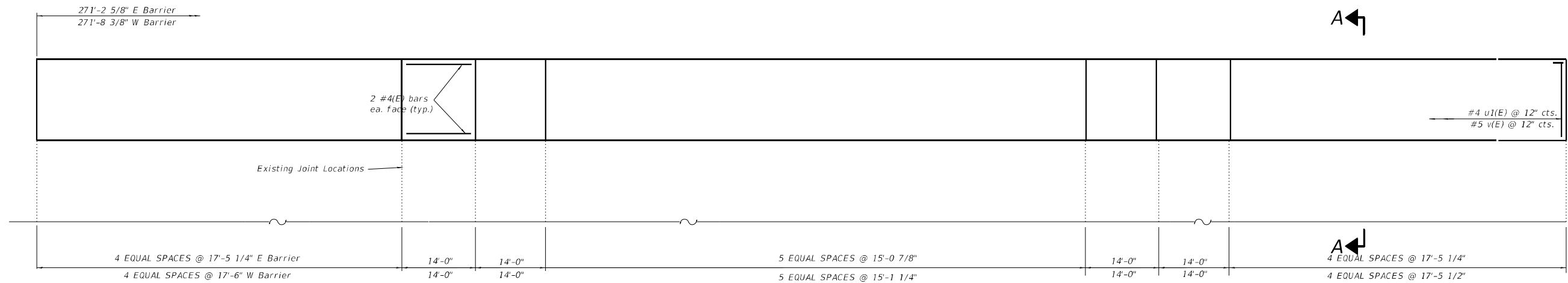


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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US 30 SPUR CROSSING ELKHORN CREEK AND I-88  
SN 098-0092 JOINT DETAILS

F.A.P. RTE. 309 & 88	SECTION (195-3B, 195-3B)BDR	COUNTY WHITESIDE	TOTAL SHEETS 50	SHEET NO. 29
ILLINOIS FED. AID PROJECT HCHT087)			CONTRACT NO. 64S31	

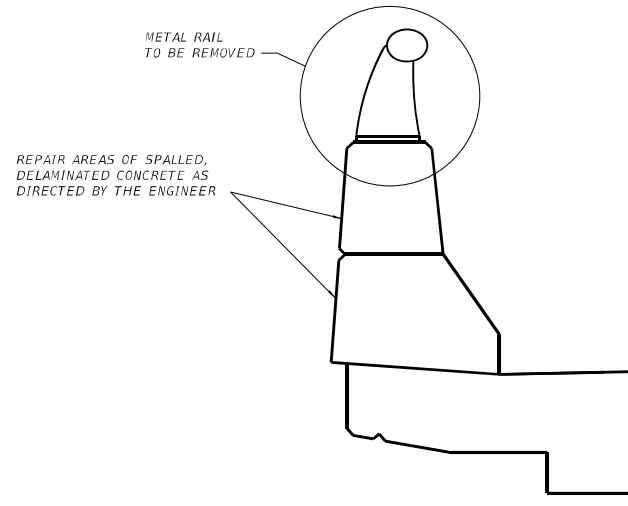


If the anchorage section of the approach guardrail conflicts with the barrier improvements, it shall be removed during rail removal and replaced after the barrier concrete has cured. Cost included with Remove Barrier Rail.

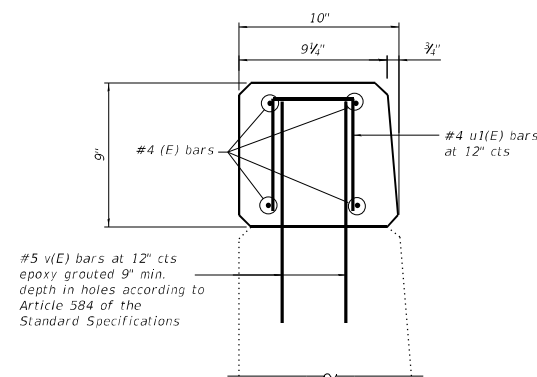
**NOTES**

1. All exposed edges shall be chamfered  $\frac{3}{4}$ "
2. Cost of all materials, labor and equipment to complete the work as detailed and specified in the Special Provisions shall be included in the cost of "Retrofit Concrete Parapet" with the exception of Bridge Rail removal and Acrylic Coating.
3. Retrofit Concrete Parapet shall be used on both sides of the structures over the full length of the structures.
4. Acrylic Coating to be applied to inside face, outside face and top surface of the existing and reconstructed parapet.

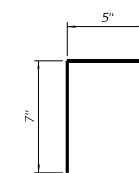
**INSIDE ELEVATION**



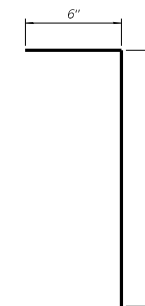
**EXISTING BARRIER SECTION**



**SECTION A-A**



**BAR u1(E)**



**BAR v(E)**

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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

US 30 SPUR CROSSING ELKHORN CREEK AND I-88  
 BARRIER IMPROVEMENTS SN 098-0092

F.A.P. RTE. 309 & 88	SECTION (195-3B, 195-3HB)BDR	COUNTY WHITESIDE	TOTAL SHEETS 50	SHEET NO. 30
ILLINOIS FED. AID PROJECT HCT1087				CONTRACT NO. 64S31

**SCOPE OF WORK**

- (A) Deck Slab Repair
- (B) Scarify existing deck 2 1/2", install new 2 1/2" microsilica concrete overlay
- (C) Replace Compression Joint Seal
- (D) Barrier Rail Repairs
- (E) Barrier Rail Improvements
- (F) Abutment Repairs

**GENERAL NOTES**

The structure numbers will remain the same SN 098-0077 and 098-0078

Do not scale plans for construction dimensions.

Plan dimensions and details relative to the 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 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.

The Contractor shall contact IDOT District 2 Engineer at 815-284-2271 a minimum of 72 hours before beginning work.

Traffic will be detoured during construction.

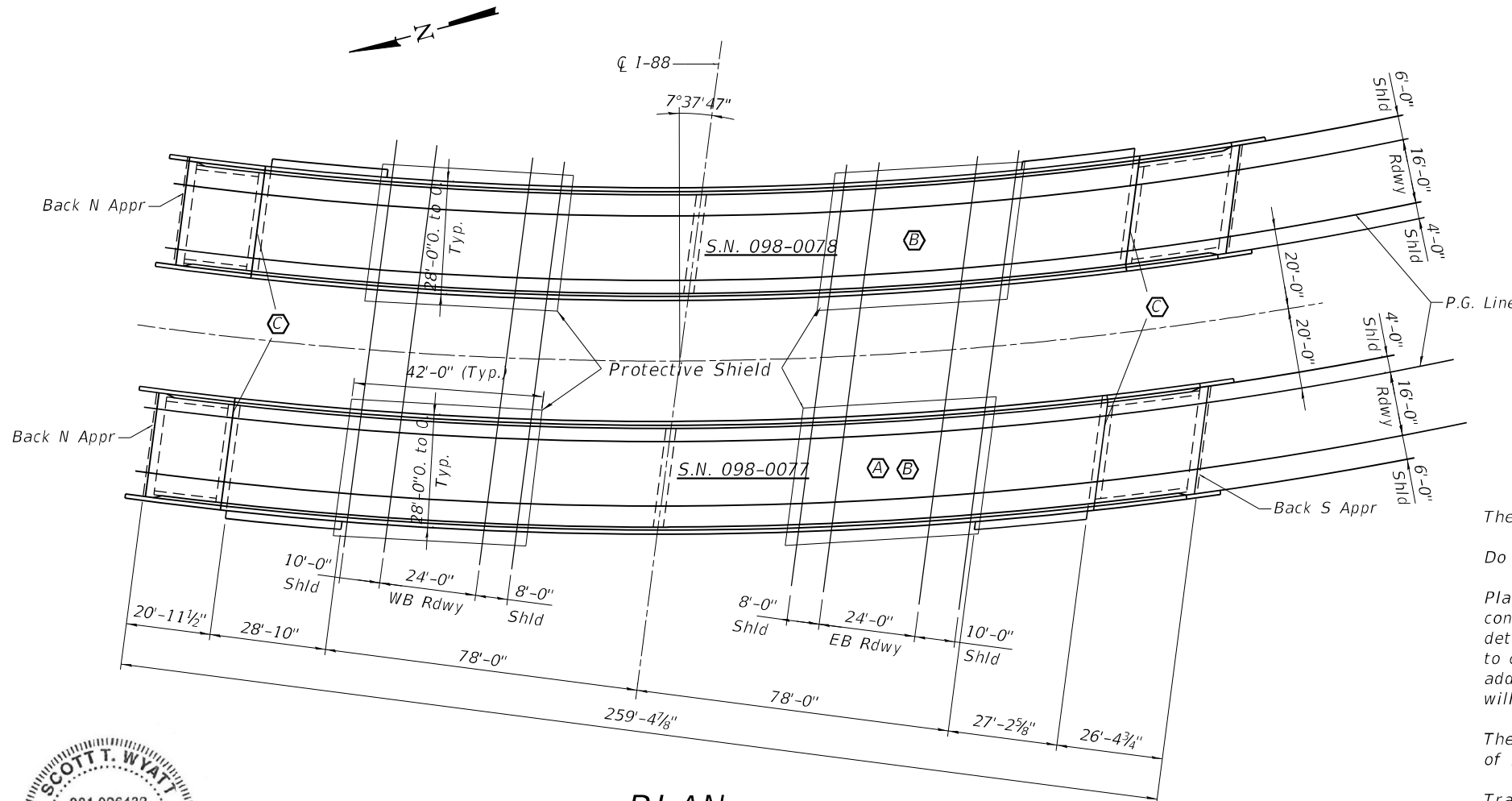
Protective coat to be applied to all new concrete superstructure and all new concrete overlays on the deck.

**TOTAL BILL OF MATERIAL**

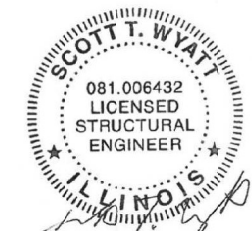
(SN 098-0077 and 0078)

ITEM	UNIT	TOTAL
Protective Coat	Sq. Yd.	1413
Bridge Rail Removal	Foot	1040
Retrofit Concrete Parapet	Foot	1040
* Acrylic Coating	Sq. Yd.	808
Protective Shield	Sq. Yd.	635
Deck Slab Repair (Full Depth Type I)	Sq. Yd.	16
Microsilica Concrete Overlay, 2 1/2"	Sq. Yd.	1413
Bridge Deck Grooving	Sq. Yd.	1384
Preformed Joint Seal, 4"	Foot	112
Structural Repair of Concrete <= 5"	Sq. Ft.	150
Bridge Deck Scarification, 2 1/2"	Sq. Yd.	1413

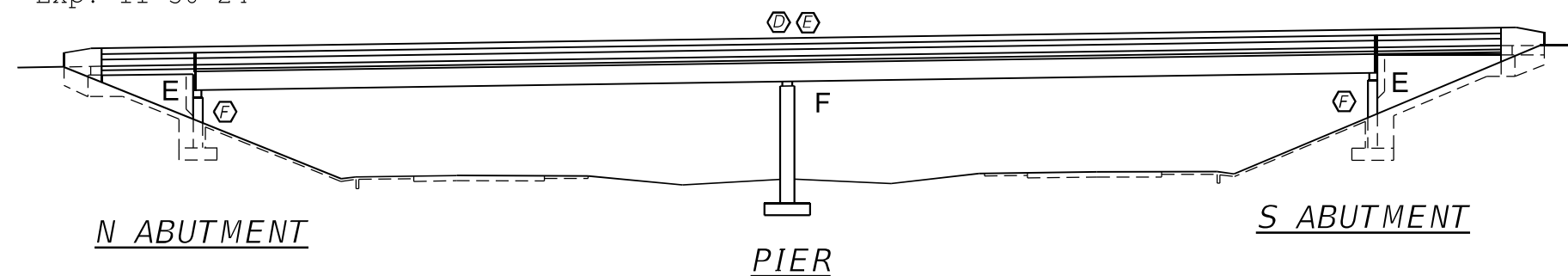
\* On Existing Parapet and Parapet Retrofit



**PLAN**



10-13-23  
Exp. 11-30-24



**ELEVATION**

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	CHECKED -	REVISED -

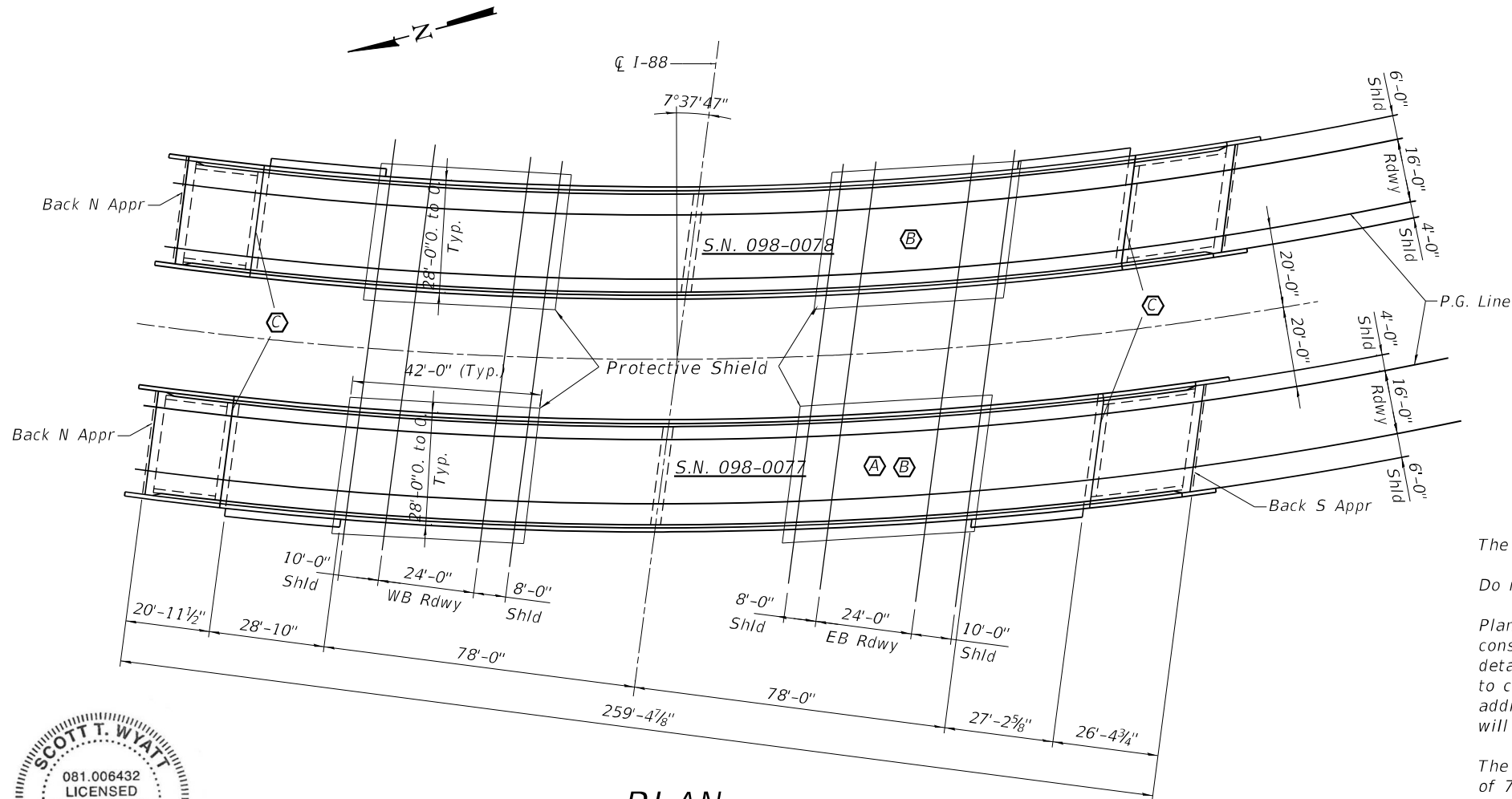
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US 30 SPUR CROSSING ELKHORN CREEK AND I-88  
PLAN AND ELEVATION

F.A.I. RTE. 309 & 88	SECTION (195-3B, 195-3B)BDR	COUNTY WHITESIDE	TOTAL SHEETS 50	SHEET NO. 32
CONTRACT NO. 64S31				
ILLINOIS FED. AID PROJECT HCHT087				

**SCOPE OF WORK**

- (A) Deck Slab Repair
- (B) Scarify existing deck 2 1/2", install new 2 1/2" microsilica concrete overlay
- (C) Replace Compression Joint Seal
- (D) Barrier Rail Repairs
- (E) Barrier Rail Improvements
- (F) Abutment Repairs



**PLAN**

**GENERAL NOTES**

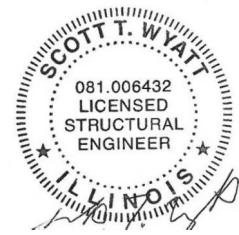
The structure numbers will remain the same SN 098-0077 and 098-0078

Do not scale plans for construction dimensions.

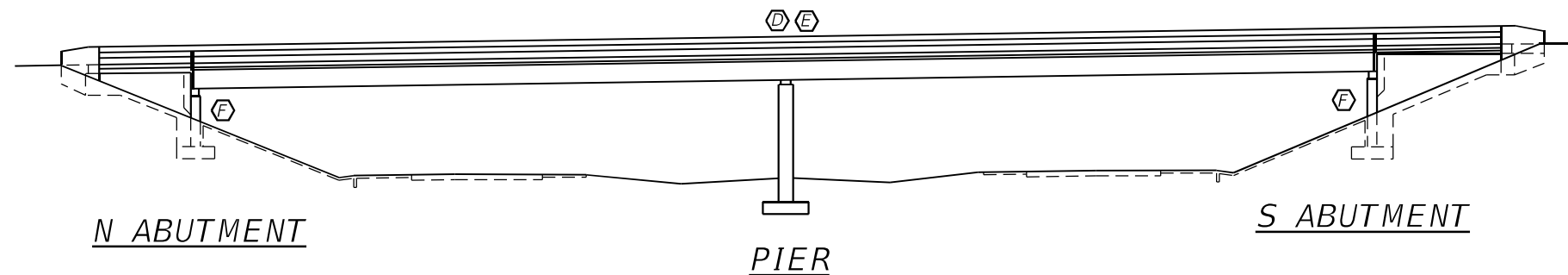
Plan dimensions and details relative to the existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering materials. Such variations 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.

The Contractor shall contact IDOT District 2 Engineer at 815-284-2271 a minimum of 72 hours before beginning work.

Traffic will be detoured during construction.



10-13-23  
Exp. 11-30-24



**ELEVATION**

**TOTAL BILL OF MATERIAL**

(SN 098-0077 and 0078)

ITEM	UNIT	TOTAL
Protective Coat	Sq. Yd.	1413
Bridge Rail Removal	Foot	1040
Retrofit Concrete Parapet	Foot	1040
Acrylic Coating	Sq. Yd.	808
Protective Shield	Sq. Yd.	635
Deck Slab Repair (Full Depth Type I)	Sq. Yd.	16
Microsilica Concrete Overlay, 2 1/2"	Sq. Yd.	1413
Bridge Deck Grooving	Sq. Yd.	1384
Preformed Joint Strip Seal	Foot	112
Structural Repair of Concrete <= 5"	Sq. Ft.	150
Bridge Deck Scarification, 2 1/2"	Sq. Yd.	1413

\* On Existing Parapet and Parapet Retrofit

MODEL: Default; kpff.com\disc\Bridges\2300223 (WO 4 US 30 Ramp 64532)\02\_Design (MS)\4531\_32\_Plan and Elevation 077 and 0078.dgn



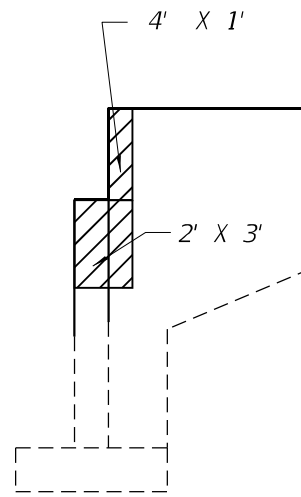
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PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DRAWN -	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

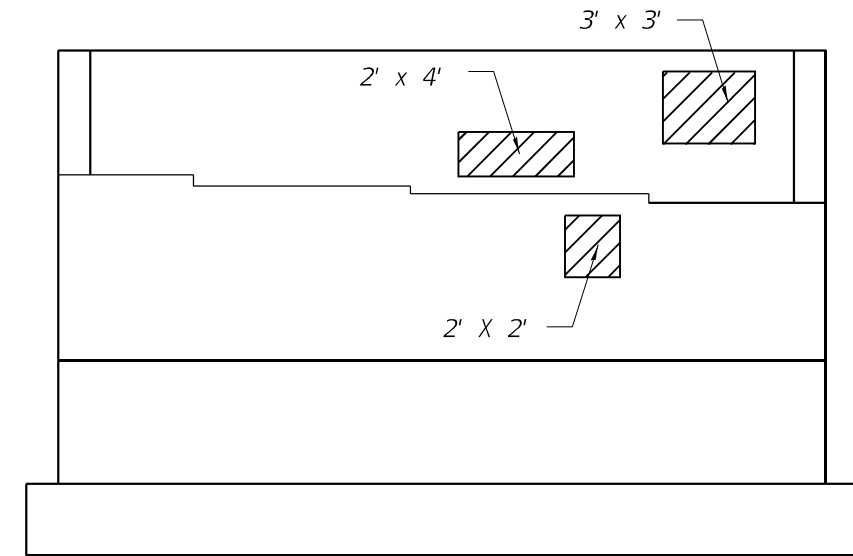
US 30 SPUR CROSSING ELKHORN CREEK AND I-88  
PLAN AND ELEVATION

F.A.I. RTE. 309 & 88	SECTION (195-3B, 195-3B)BDR	COUNTY WHITESIDE	TOTAL SHEETS 50	SHEET NO. 32
ILLINOIS FED. AID PROJECT HCHT1087)				CONTRACT NO. 64S31

NOTES:  
 AREAS SHOWN ARE POTENTIAL AREAS OF CONCRETE REPAIR <5".  
 ACTUAL AREAS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.



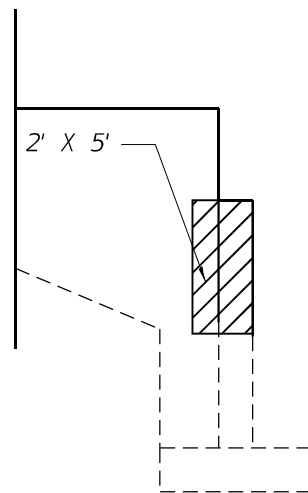
NORTH ABUTMENT EAST CURTAINWALL



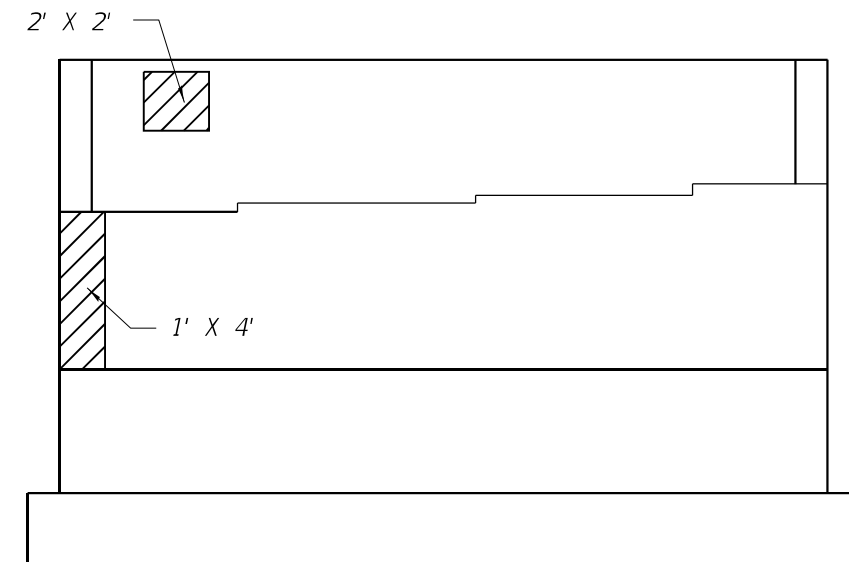
NORTH ABUTMENT

**LEGEND**

 Structural Repair of Concrete <= 5"



SOUTH ABUTMENT EAST CURTAINWALL



SOUTH ABUTMENT

MODEL: Default  
 FILE NAME: \\kpff.com\dfs\Bridges\2300223 (WO 4 US 30 Ramp 64532)\02\_Design (MS)\4531\_34 - 0077 Abutment Repairs.dgn



1500 Sherman Ave, Suite 1020  
 Evanston, IL 60201  
 847-859-7790  
 www.kpff.com

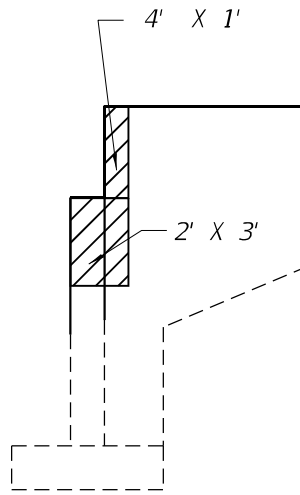
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PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DRAWN -	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

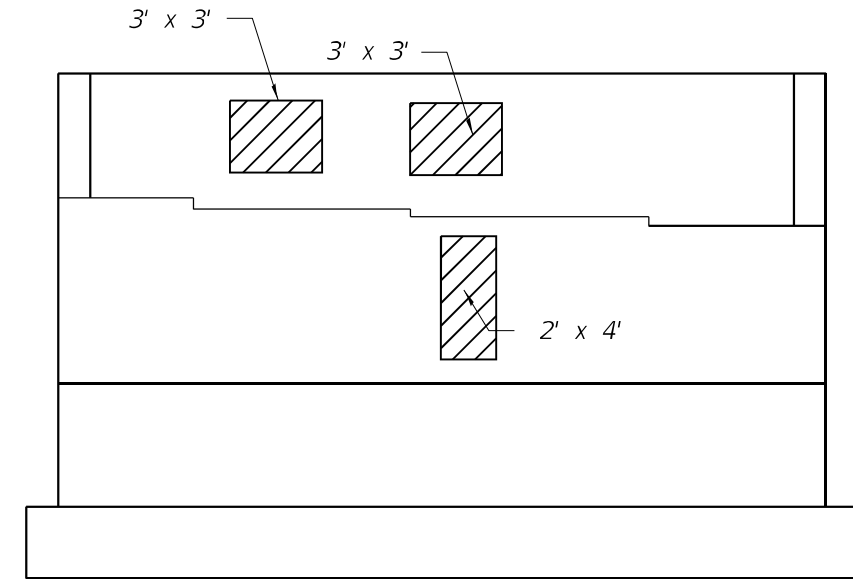
US 30 SPUR CROSSING ELKHORN CREEK AND I-88  
 SN 098-0077 ABUTMENT REPAIRS

F.A.I. RT.E. 309 & 88	SECTION (195-3B, 195-3B)BDR	COUNTY WHITESIDE	TOTAL SHEETS 50	SHEET NO. 34
ILLINOIS FED. AID PROJECT HCHT087				CONTRACT NO. 64S31

NOTES:  
 AREAS SHOWN ARE POTENTIAL AREAS OF CONCRETE REPAIR <5".  
 ACTUAL AREAS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.



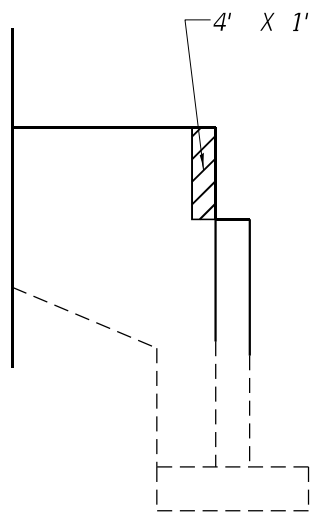
NORTH ABUTMENT EAST CURTAINWALL



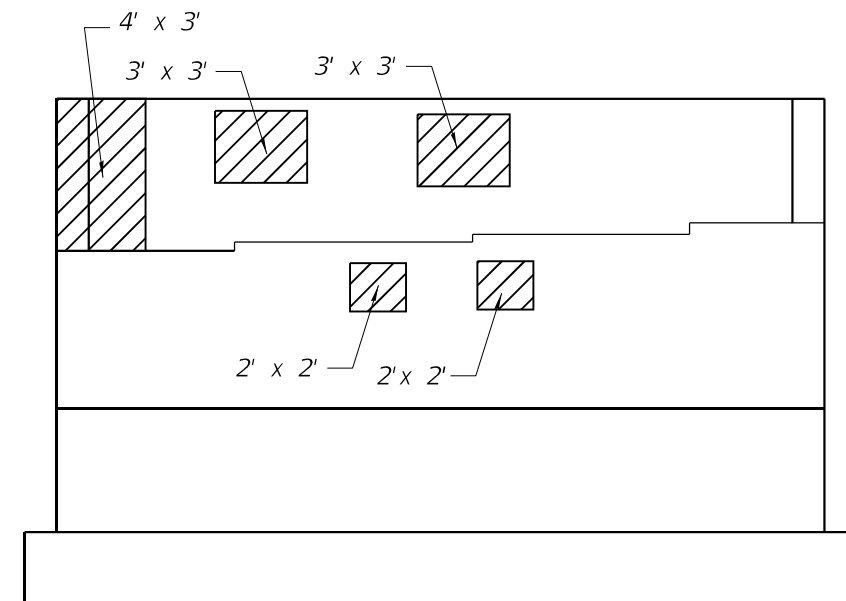
NORTH ABUTMENT

**LEGEND**

 Structural Repair of Concrete <= 5"



SOUTH ABUTMENT EAST CURTAINWALL



SOUTH ABUTMENT

MODEL: Default  
 FILE NAME: \\kpff.com\dfs\Bridges\2300223 (WO 4 US 30 Ramp 64S32)\02\_Design (MS)\64S31\_36 - 0078 Abutment Repairs.dgn



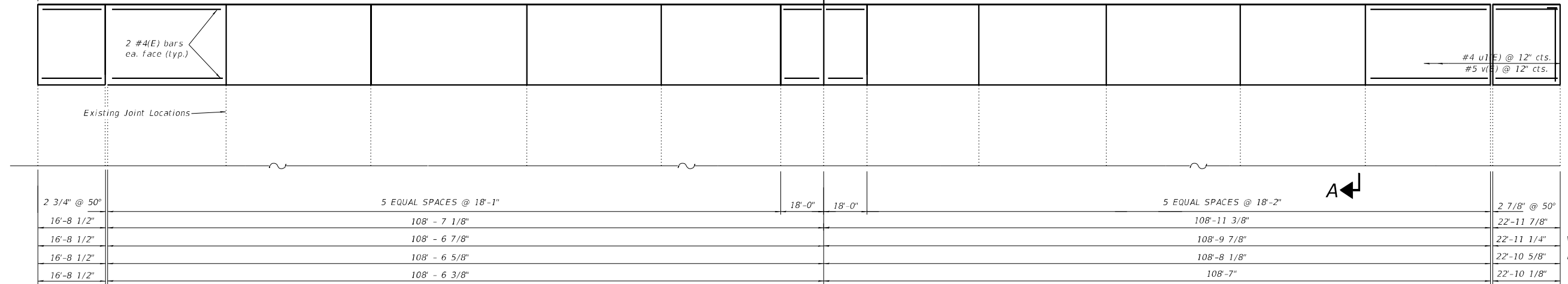
USER NAME =	DESIGNED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DRAWN -	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

US 30 SPUR CROSSING ELKHORN CREEK AND I-88  
 SN 098-0078 ABUTMENT REPAIRS

F.A.I. RT. 309 & 88	SECTION (195-3B, 195-3B)BDR	COUNTY WHITESIDE	TOTAL SHEETS 50	SHEET NO. 35
ILLINOIS FED. AID PROJECT HCT1087				CONTRACT NO. 64S31

257-8 1/4" E Barrier, WB Bridge  
 257-6 1/8" W Barrier, WB Bridge  
 257-3 1/2" E. Barrier, EB Bridge  
 257-1 5/8" W Barrier, EB Bridge

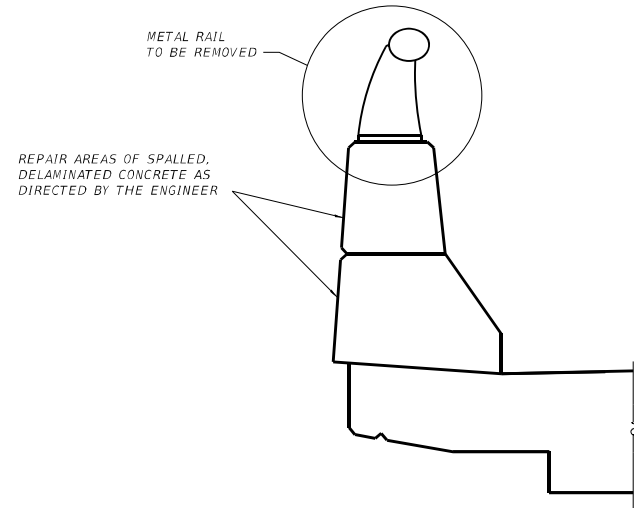


If the anchorage section of the approach guardrail conflicts with the barrier improvements, it shall be removed during rail removal and replaced after the barrier concrete has cured. Cost included with Remove Barrier Rail.

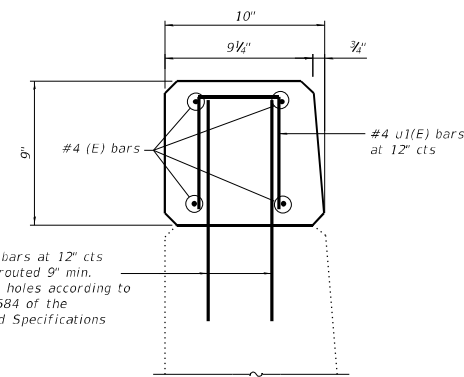
**NOTES**

1. All exposed edges shall be chamfered 3/4"
2. Cost of all materials, labor and equipment to complete the work as detailed and specified in the Special Provisions shall be included in the cost of "Retrofit Concrete Parapet" with the exception of Bridge Rail removal and Acrylic Coating.
3. Retrofit Concrete Parapet shall be used on both sides of the structure over the full length of the structure.
4. Acrylic Coating to be applied to inside face, outside face and top surface of the existing and reconstructed parapet.

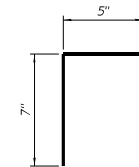
**INSIDE ELEVATION**



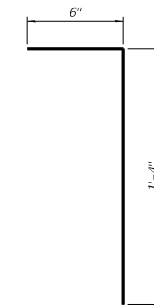
**EXISTING BARRIER SECTION**



**SECTION A-A**



**BAR u1(E)**



**BAR v(E)**

MODEL: Default  
 FILE NAME: \\kpf.com\dis\Bridges\2300223 (WO 4 US 30 Ramp 64S32)\02\_Design (MS)\44531-36- Barrier Improvements.dgn  
 10/13/2023 8:17:40 AM



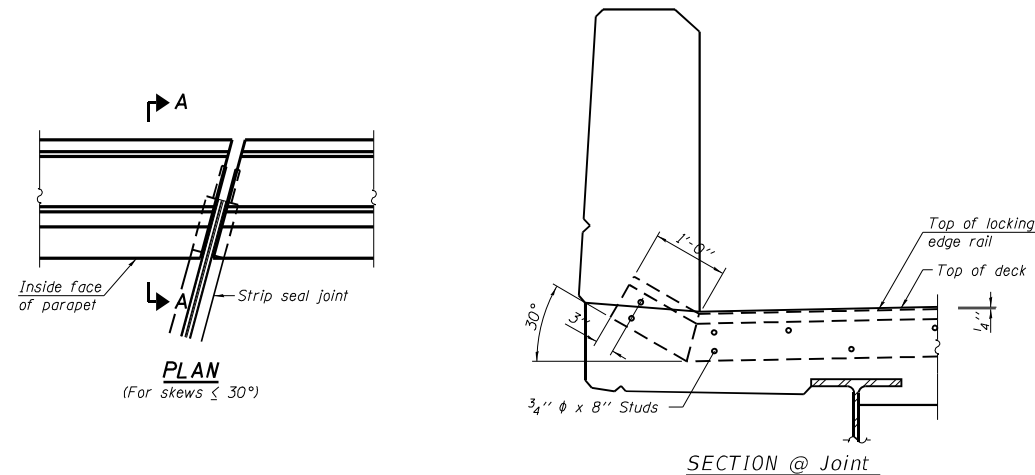
USER NAME =	DESIGNED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DRAWN -	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

US 30 SPUR CROSSING ELKHORN CREEK AND I-88  
 SN 098-0077 and 0078 BARRIER IMPROVEMENTS

F.A.I. RTE. 309 & 88	SECTION (195-3B, 195-3B)BDR	COUNTY WHITESIDE	TOTAL SHEETS 50	SHEET NO. 36
ILLINOIS FED. AID PROJECT HCHT087				CONTRACT NO. 64S31





**BILL OF MATERIAL**

Item	Unit	Total
Preformed Joint Strip Seal	Foot	241

**Joint Openings**

Locations	A	B	C	D
0092, 93, 94 N Abut	2 3/8"	1 1/2"	1 1/2"	3"
0092, 93, 94 S Abut	3"	2 1/8"	1 1/2"	3"

**Notes:**

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.

The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4 1/2" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

The manufacturer's recommended installation methods shall be followed.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

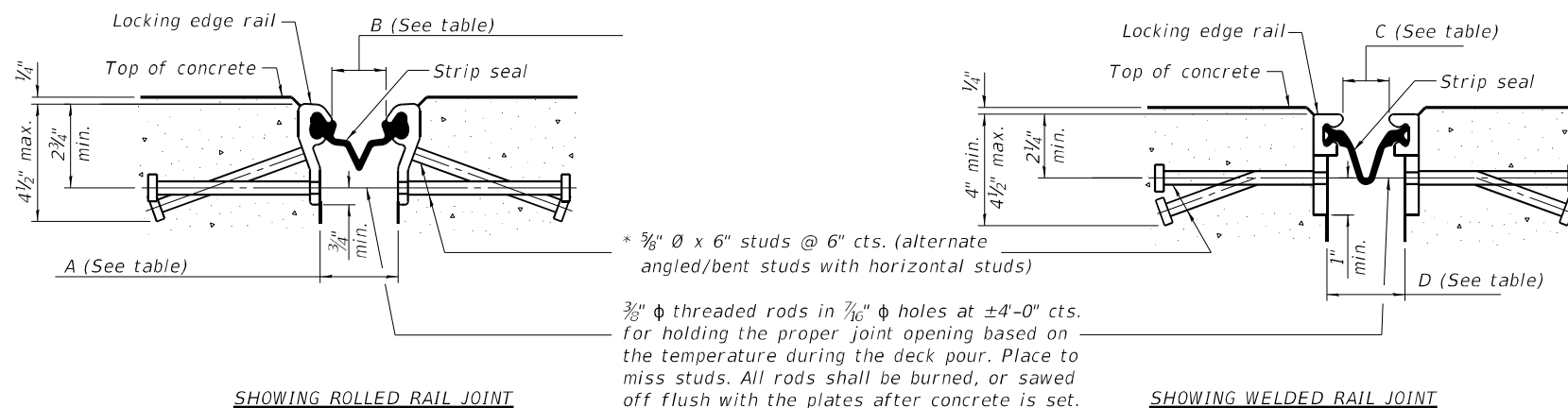
The Maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

The top surface of sidewalk sliding plates shall have a raised pattern according to ASTM A786.

Cost of parapet sliding plates, sidewalk sliding plates, embedded plates, anchorage studs, and expansion anchors included with Preformed Joint Strip Seal.

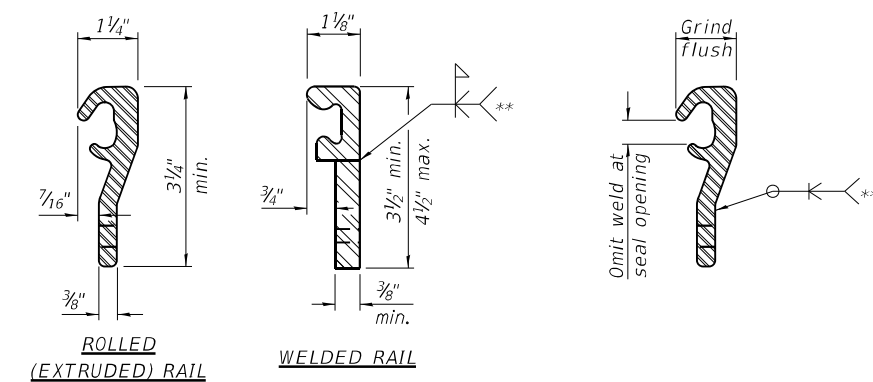
39" constant slope barrier shown, 44" constant slope barrier similar as noted.

The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.



**SECTION A-A**

\* 5/8" Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)  
 3/8" Ø threaded rods in 7/16" Ø holes at ±4'-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.



**LOCKING EDGE RAILS**

\*\* Back gouge not required if complete joint penetration is verified by mock-up.

**LOCKING EDGE RAIL SPLICE**

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

MODEL: Default  
 FILE NAME: \\kpf.com\dfs\Bridges\2300222 (WCO 2 - US 30 64S31)\02\_Design (MS)\64S31-35-Joint\_Details.dgn



USER NAME =	DESIGNED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DRAWN -	REVISED -
	CHECKED -	REVISED -

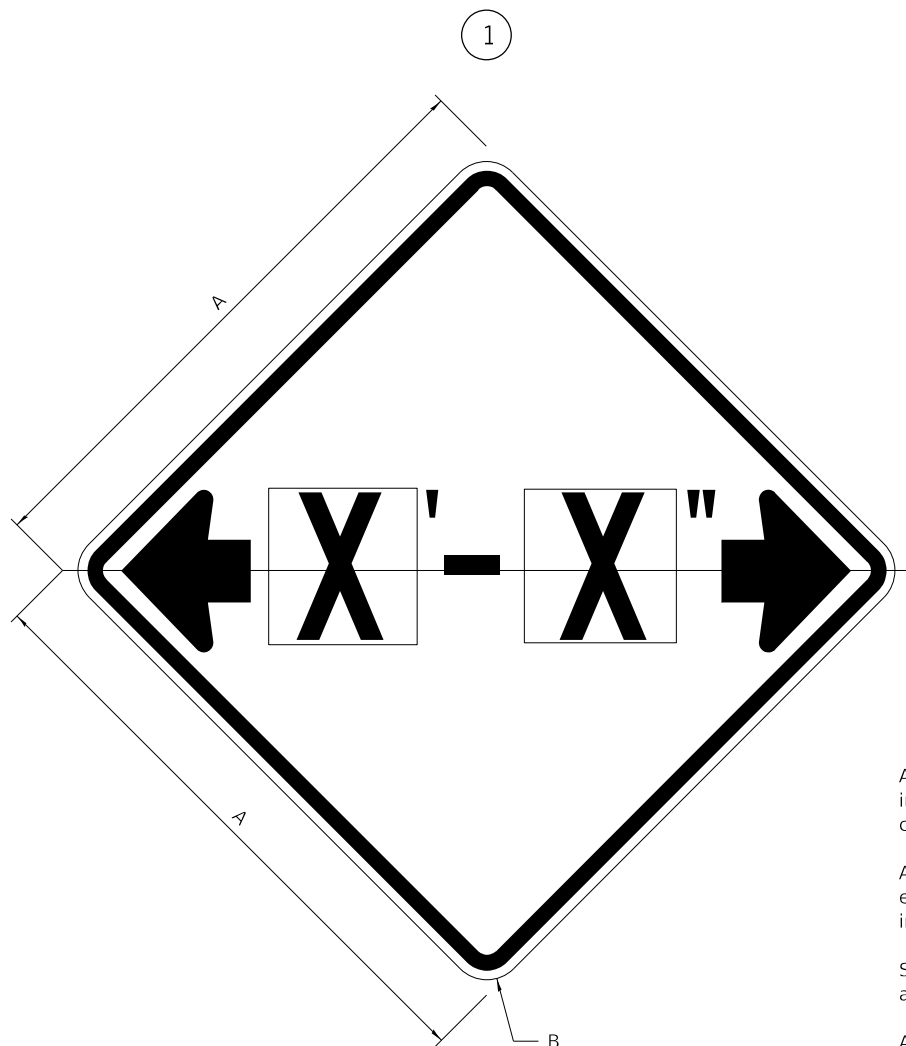
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**US 30 SPUR CROSSING ELKHORN CREEK AND I-88  
 PREFORMED JOINT STRIP SEAL DETAILS**

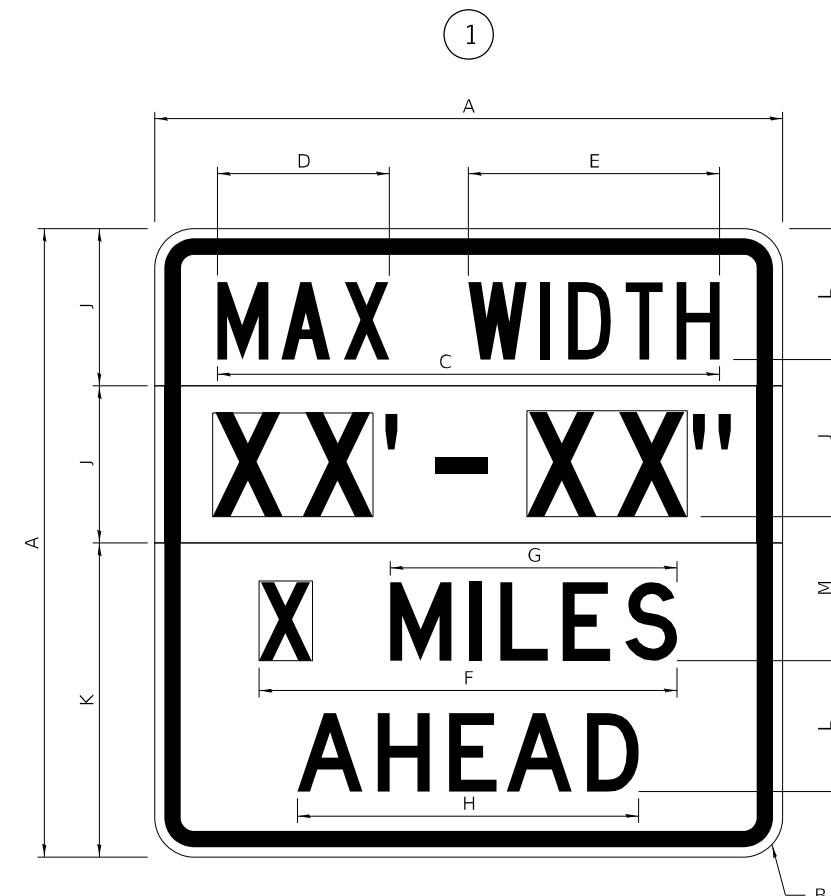
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309 & 88	(195-3B, 195-3B)BDR	WHITESIDE	50	37
CONTRACT NO. 64S31				
ILLINOIS FED. AID PROJECT HCHT1087				

# WORK ZONE SIGN DETAILS

## ILLINOIS STANDARD W12-I102



## ILLINOIS STANDARD W12-I103



### GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

COLOR LEGEND AND BORDER BACKGROUND BLACK FL ORANGE NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS	
	A	B
48 x 48	48.00	3.00

① Illinois Standard signs W12-I102 and W12-I103 shall be used as described in the special provisions.

SIGN SIZE	SERIES BY LINE	MARGIN	BORDER
	1		
48 x 48	12C	0.750	1.250

Sign not to scale

COLOR LEGEND AND BORDER BACKGROUND BLACK FL ORANGE NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS											
	A	B	C	D	E	F	G	H	J	K	L	M
48 x 48	48.00	3.00	38.40	13.20	19.20	32.00	22.00	26.20	12.00	24.00	10.00	11.00

SIGN SIZE	SERIES BY LINE				MARGIN	BORDER
	1	2	3	4		
48 x 48	6C	8D	6D	6D	0.750	1.250

Sign not to scale

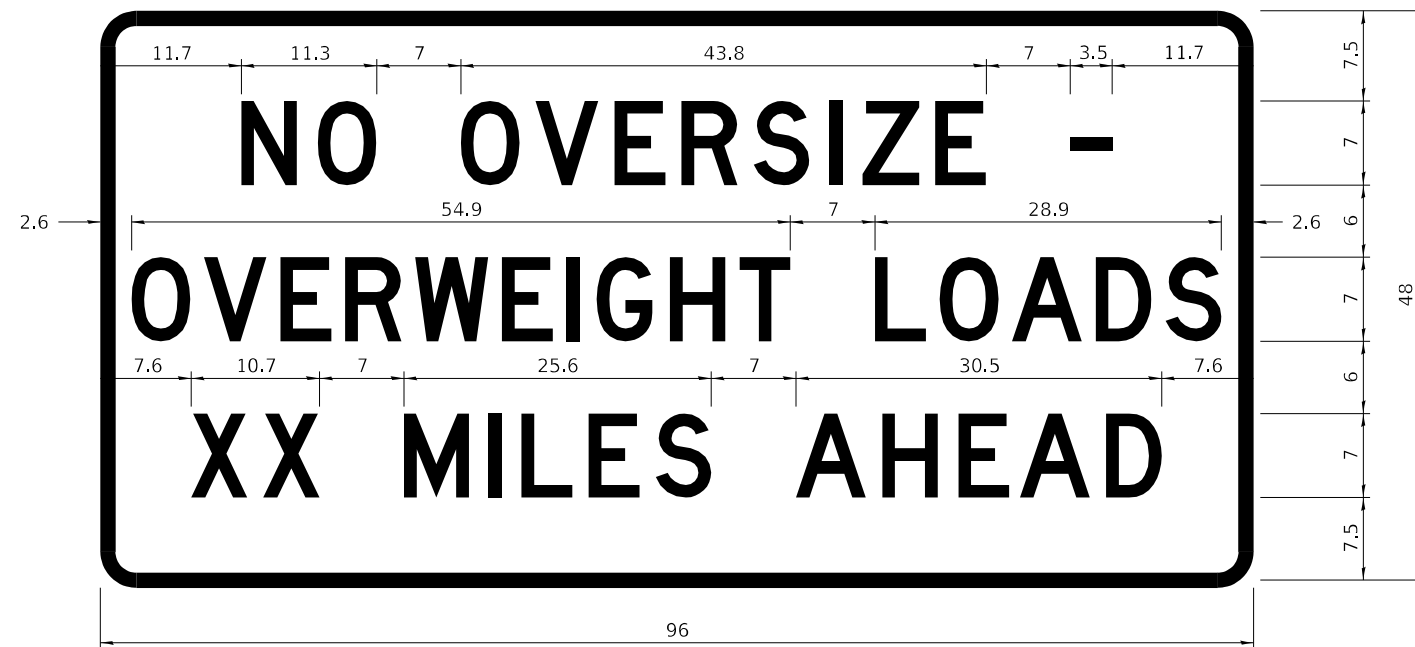
XX'-XX" WIDTH AND X MILES ARE VARIABLE TOP AND BOTTOM OF BACKGROUND WHITE

FILE NAME: District 2 Standard	USER NAME = IDOT/District 2	DESIGNED -	REVISED - 3-02-16	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1,0000' / in.	DRAWN -	REVISED -			FAP 309	(195-3B,195-3HB)BDR	WHITESIDE	50	38
	PLOT DATE = 5/17/2023	CHECKED -	REVISED -			FAI 88				CONTRACT NO. 64S31
	DATE -	REVISED -		SCALE: NTS	SHEET 2 OF 4 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

# WORK ZONE SIGN DETAILS

## ROAD CLOSED TO OVERSIZED LOADS

## STOP LINE SIGN FOR TEMPORARY SIGNALS



COLOR	LEGEND AND BORDER BACKGROUND	BLACK ORANGE	NON-REFLECTORIZED REFLECTORIZED
-------	------------------------------	--------------	---------------------------------

COLOR	LEGEND AND BORDER BACKGROUND	BLACK WHITE	NON-REFLECTORIZED REFLECTORIZED
-------	------------------------------	-------------	---------------------------------

Permit Loads - Loads Over 13 Feet; 3.0" Radius, 1.3" Border;  
 [NO OVERSIZE -] D; [OVERWEIGHT LOADS] D 85% spacing; [XX MILES AHEAD] D;  
 Table of letter and object lefts.

SIGN SIZE	SERIES BY LINE		
	1	2	3
24 x 24	4C	4C	4C

N	O	O	V	E	R	S	I	Z	E	-
11.7	18.1	30.0	36.2	42.8	48.4	54.4	60.7	63.5	69.5	80.8

Sign not to scale

O	V	E	R	W	E	I	G	H	T	L	O	A	D	S
2.6	8.6	15.0	20.4	26.2	33.4	38.8	41.3	47.4	53.2	64.5	69.9	75.9	82.9	88.7

### GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

X	X	M	I	L	E	S	A	H	E	A	D
7.6	13.6	25.3	32.3	35.1	40.6	46.2	57.9	65.1	71.4	76.6	83.7

Sign not to scale

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

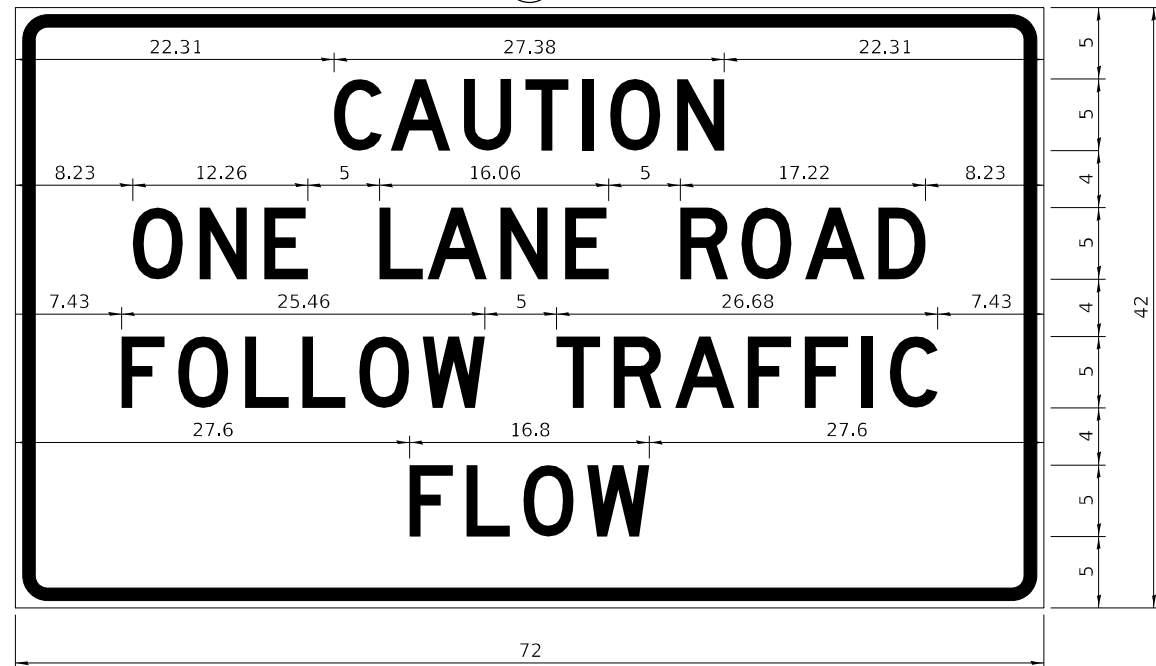
All dimensions are in inches unless otherwise noted.

FILE NAME: District 2 Standard	USER NAME = IDOT/District 2	DESIGNED -	REVISED - 3-02-16	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>REGION 2 / DISTRICT 2 STANDARD</b>			F.A. RTE. FAP 309 FAI 88	SECTION (195-3B,195-3HB)BDR	COUNTY WHITESIDE	TOTAL SHEETS 50	SHEET NO. 39			
	PLOT SCALE = 1,0000' / in.	DRAWN -	REVISED -					SCALE: NTS	SHEET 3	OF 4 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 64S31	
	PLOT DATE = 5/17/2023	CHECKED -	REVISED -												
		DATE -	REVISED -												

**ENTRANCE SIGN FOR USE  
WITH TEMPORARY SIGNALS**

**WORK ZONE SIGN DETAILS**

2



COLOR	LEGEND AND BORDER BACKGROUND	BLACK ORANGE	NON-REFLECTORIZED REFLECTORIZED
-------	------------------------------	--------------	---------------------------------

2.25" Radius, 0.88" Border, 0.50" Indent;  
[CAUTION] D; [ONE LANE ROAD] D;  
[FOLLOW TRAFFIC] D; [FLOW] D

2 This sign shall be installed at entrances located between the temporary signals as shown in the staging plans.

**Table Of Widths And Spaces**

22.31	C	A	U	T	I	O	N	22.31
3.36	3.36	4.18	3.36	3.04	0.78	3.52	3.36	
0.62	0.94	0.94	0.94	0.94	1.17	1.17	0.94	

8.23	O	N	E
3.51	3.36	3.36	3.04
1.17	1.18		

5.00	L	A	N	E
3.05	3.36	4.18	3.36	3.05
0.31	0.94	0.94	1.17	

5.00	R	O	A	D
3.36	3.52	4.18	3.36	3.36
0.93	0.94	0.93	8.23	

7.43	F	O	L	L	O	W
3.04	3.52	3.04	3.05	3.51	0.94	4.37
0.94	1.17	0.94	0.94	0.94		

5.00	T	R	A	F	F	I	C
3.05	3.36	4.18	3.05	3.04	0.94	0.78	3.35
0.94	0.94	0.93	0.94	0.94	1.18	7.43	

27.60	F	L	O	W
3.05	3.04	3.52	4.38	27.60
0.94	0.94	0.93		

Sign not to scale

**GENERAL NOTES**

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

**STAY IN YOUR LANE**



COLOR	LEGEND AND BORDER BACKGROUND	BLACK ORANGE	NON-REFLECTORIZED REFLECTORIZED
-------	------------------------------	--------------	---------------------------------

48.0" across sides 3.8" Radius, 1.0" Border, 0.6" Indent;  
"STAY" E Mod; "IN YOUR" E Mod; "LANE" E Mod;

**Table of Letter and Object Lefts**

S	T	A	Y
20.7	26.8	31.6	38.0

I	N	Y	O	U	R
13.2	15.9	26.7	33.9	40.5	46.8

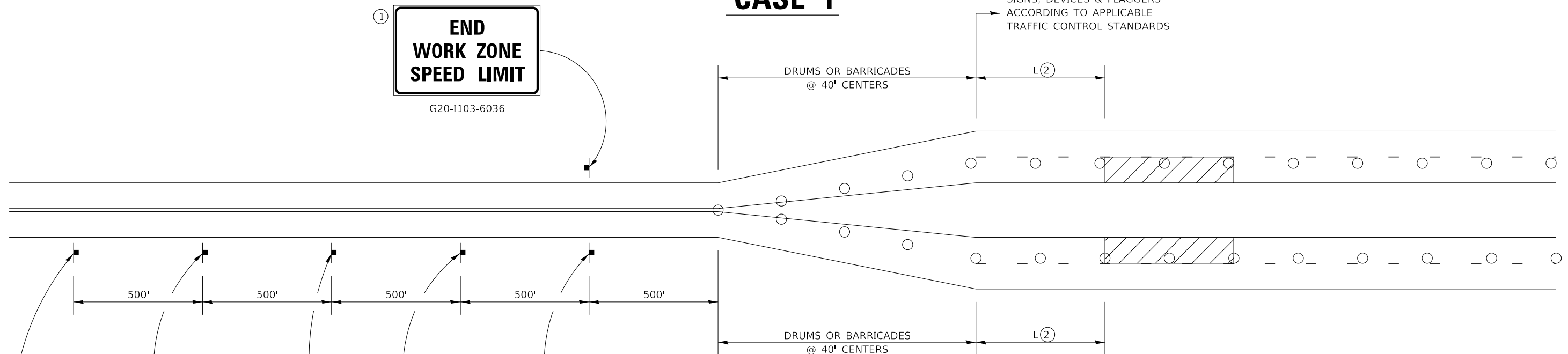
L	A	N	E
20.9	25.8	33.1	39.4

Sign not to scale

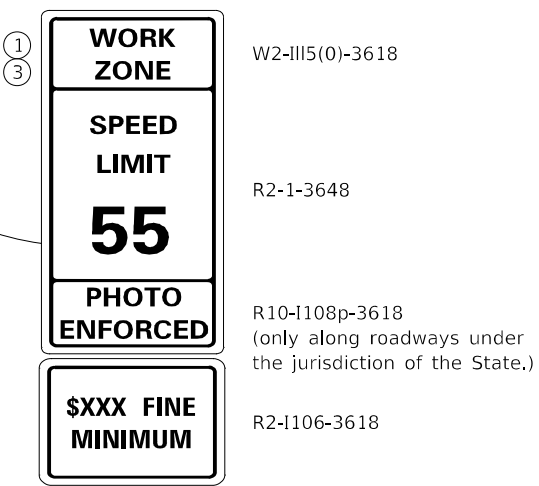
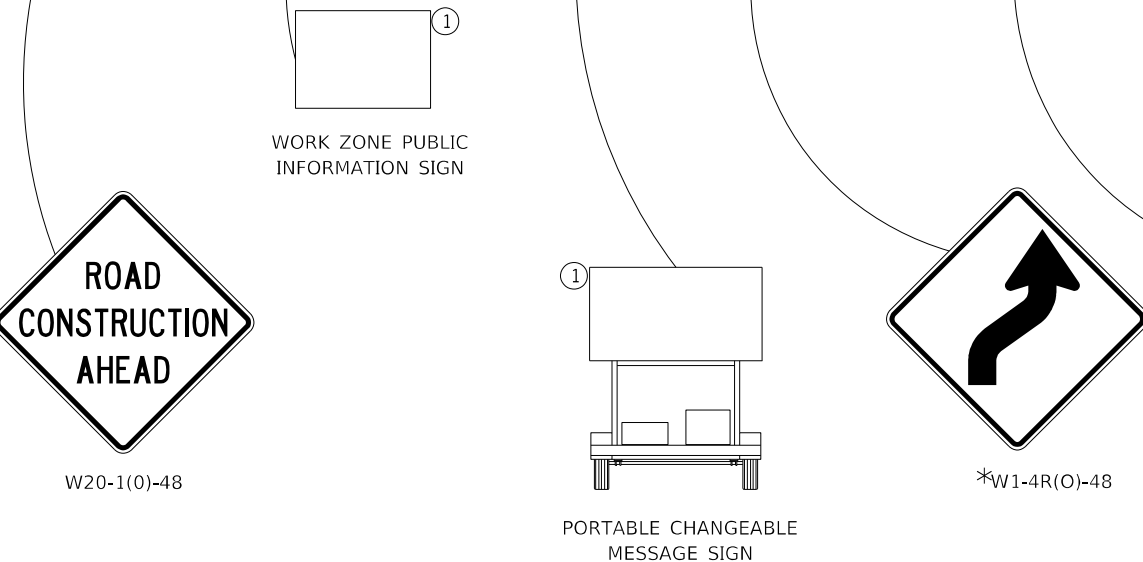
# TRAFFIC CONTROL FOR TRANSITION AREAS

## CASE 1

SIGNS, DEVICES & FLAGGERS  
ACCORDING TO APPLICABLE  
TRAFFIC CONTROL STANDARDS



SIGNS, DEVICES & FLAGGERS  
ACCORDING TO APPLICABLE  
TRAFFIC CONTROL STANDARDS



GENERAL NOTES  
THIS DETAIL IS TO BE USED IN CONJUNCTION  
WITH THE APPLICABLE MULTILANE TRAFFIC  
CONTROL AND PROTECTION STANDARD.

1. If applicable. Use if shown on applicable multilane Traffic Control and Protection Standard being used.
2. If the work is within 2500 feet of the transition when the speed is > 40 mph, or 1500 feet for all other speeds, the detail shall be used.
3. WORK ZONE SPEED LIMIT 55 SIGN ASSEMBLY shall be replaced with WORK ZONE SPEED LIMIT 45 SIGN ASSEMBLY where the workers are within 500 feet of the transition.

THIS TRAFFIC CONTROL DETAIL SHALL BE INCLUDED  
IN THE COST OF SPECIFIED TRAFFIC CONTROL  
STANDARDS OR ITEMS.

○ DRUMS OR BARRICADES WITH LIGHTS

▨ WORK AREA

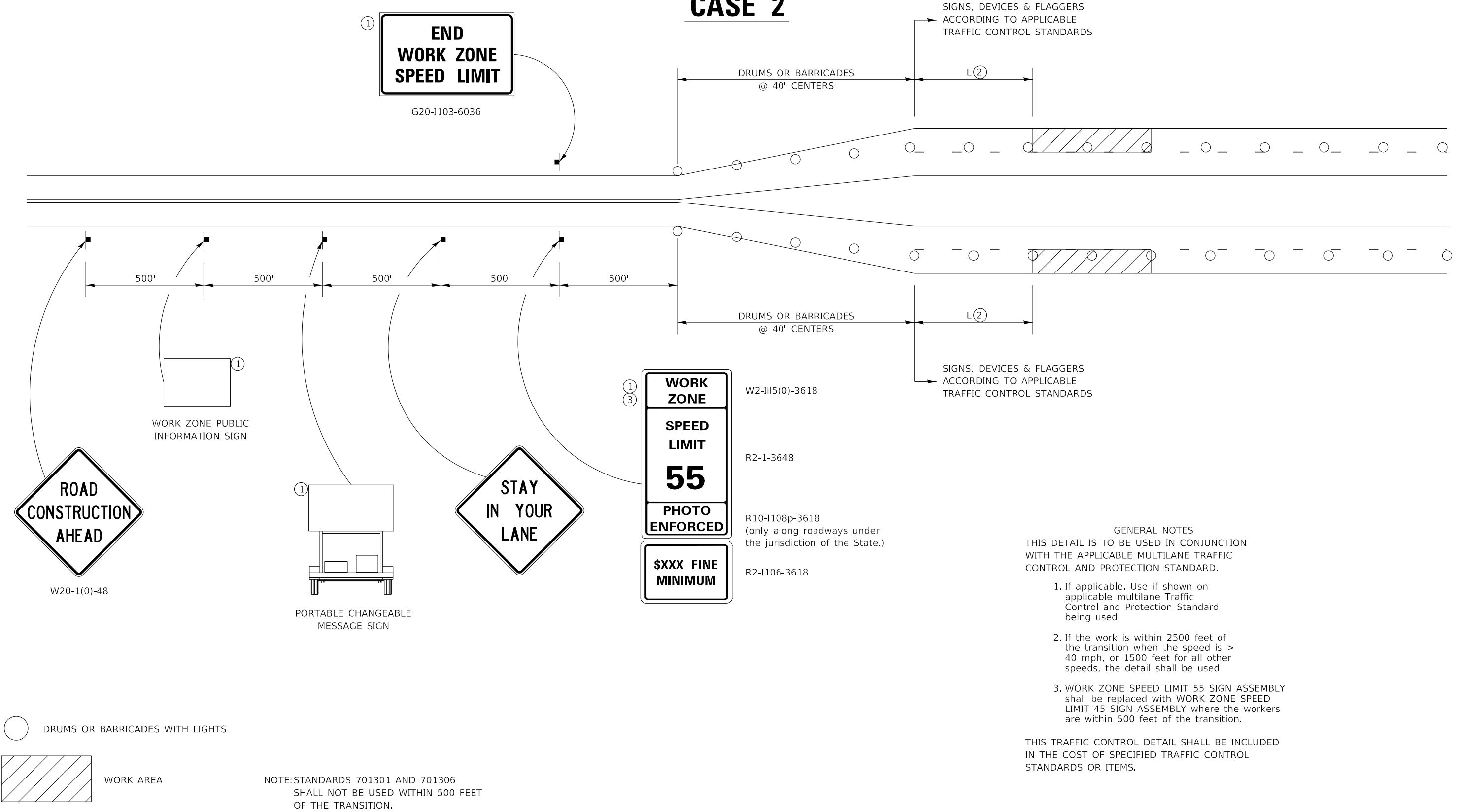
NOTE: STANDARDS 701301 AND 701306  
SHALL NOT BE USED WITHIN 500 FEET  
OF THE TRANSITION.

\*DEPENDS ON GEOMETRICS  
OF THE TRANSITION. MAY  
SWITCH THE "STAY IN YOUR  
LANE" AND "WEAVE SIGNS"

FILE NAME: District 2 Standard	USER NAME = IDOT/District 2	DESIGNED -	REVISED - 4-20-17	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1,0000' / in.	DRAWN -	REVISED - 1-05-16					FAP 309 FAL88	(195-3B,195-3HB)BDR	WHITESIDE	50	41
	PLOT DATE = 5/17/2023	CHECKED -	REVISED - 8-27-13									
	DATE -	REVISED - 1-16-13		SCALE: NTS	SHEET 1 OF 4 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT CONTRACT NO. 64S31				

# TRAFFIC CONTROL FOR TRANSITION AREAS

## CASE 2



**GENERAL NOTES**  
 THIS DETAIL IS TO BE USED IN CONJUNCTION WITH THE APPLICABLE MULTILANE TRAFFIC CONTROL AND PROTECTION STANDARD.

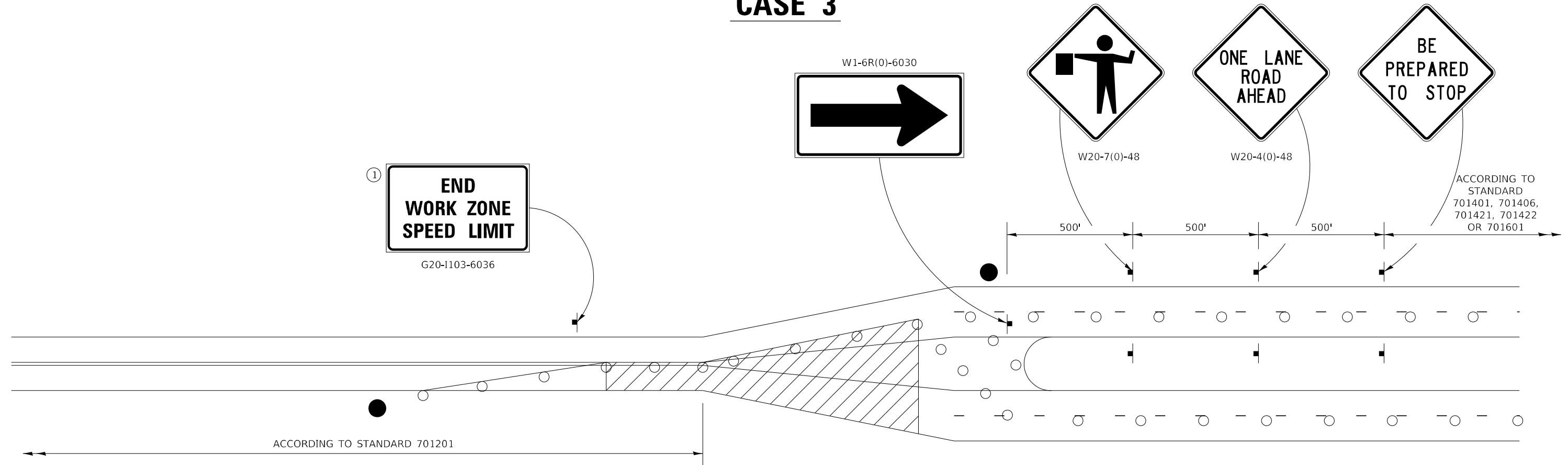
1. If applicable. Use if shown on applicable multilane Traffic Control and Protection Standard being used.
2. If the work is within 2500 feet of the transition when the speed is > 40 mph, or 1500 feet for all other speeds, the detail shall be used.
3. WORK ZONE SPEED LIMIT 55 SIGN ASSEMBLY shall be replaced with WORK ZONE SPEED LIMIT 45 SIGN ASSEMBLY where the workers are within 500 feet of the transition.

THIS TRAFFIC CONTROL DETAIL SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

FILE NAME: District 2 Standard	USER NAME = IDOT/District 2	DESIGNED -	REVISED - 4-20-17	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>REGION 2 / DISTRICT 2 STANDARD</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1,0000' / in.	CHECKED -	REVISED - 1-05-16			FAP 309 FAL 88	(195-3B,195-3HB)BDR	WHITESIDE	50	42
	PLOT DATE = 5/17/2023	DATE -	REVISED - 8-27-13							

# TRAFFIC CONTROL FOR TRANSITION AREAS

## CASE 3



**GENERAL NOTES**  
 THIS DETAIL IS TO BE USED IN CONJUNCTION WITH THE APPLICABLE MULTILANE TRAFFIC CONTROL AND PROTECTION STANDARD.

1. If applicable. Use if shown on applicable multilane Traffic Control and Protection Standard being used.
2. If the work is within 2500 feet of the transition when the speed is > 40 mph, or 1500 feet for all other speeds, the detail shall be used.
3. WORK ZONE SPEED LIMIT 55 SIGN ASSEMBLY shall be replaced with WORK ZONE SPEED LIMIT 45 SIGN ASSEMBLY where the workers are within 500 feet of the transition.

THIS TRAFFIC CONTROL DETAIL SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

● FLAGGER WITH TRAFFIC CONTROL SIGN

○ DRUMS OR BARRICADES WITH LIGHTS

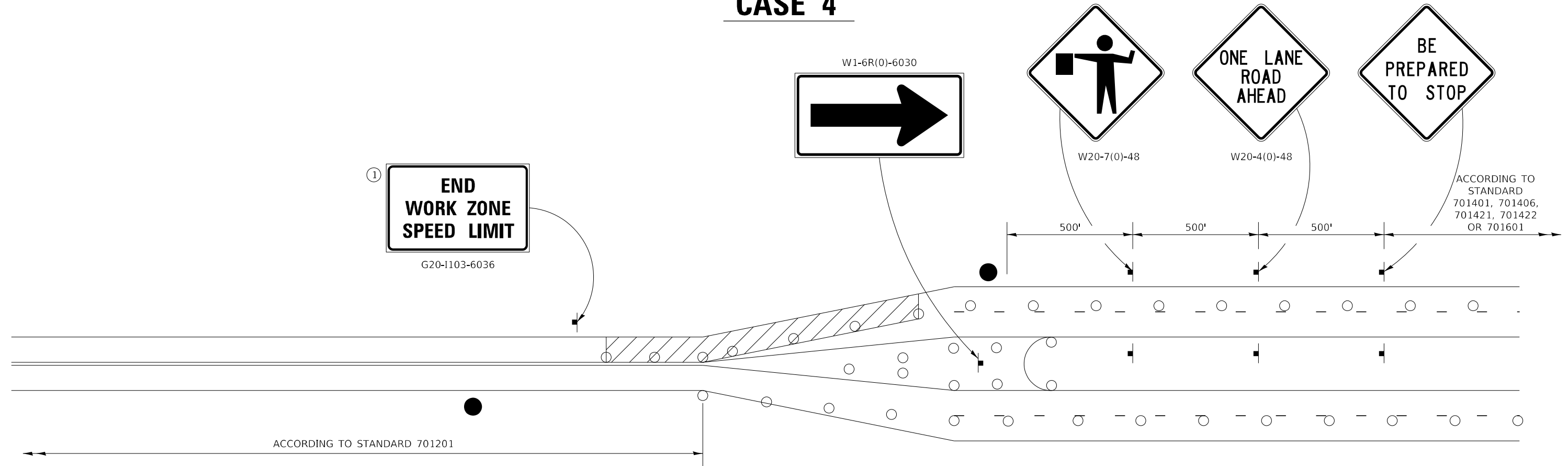
▨ WORK AREA

NOTE: STANDARDS 701301 AND 701306 SHALL NOT BE USED WITHIN 500 FEET OF THE TRANSITION.

FILE NAME: District 2 Standard	USER NAME = IDOT/District 2	DESIGNED -	REVISED - 4-20-17	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>REGION 2 / DISTRICT 2 STANDARD</b>			F.A. RTE. FAP 309 FAL 88	SECTION (195-3B,195-3HB)BDR	COUNTY WHITESIDE	TOTAL SHEETS 50	SHEET NO. 43
	PLOT SCALE = 1,0000" / in.	CHECKED -	REVISED - 8-27-13					CONTRACT NO. 64S31				
	PLOT DATE = 5/17/2023	DATE -	REVISED - 3-05-12					SCALE: NTS	SHEET 3 OF 4 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT	

# TRAFFIC CONTROL FOR TRANSITION AREAS

## CASE 4



**GENERAL NOTES**  
 THIS DETAIL IS TO BE USED IN CONJUNCTION WITH THE APPLICABLE MULTILANE TRAFFIC CONTROL AND PROTECTION STANDARD.

1. If applicable. Use if shown on applicable multilane Traffic Control and Protection Standard being used.
2. If the work is within 2500 feet of the transition when the speed is > 40 mph, or 1500 feet for all other speeds, the detail shall be used.
3. WORK ZONE SPEED LIMIT 55 SIGN ASSEMBLY shall be replaced with WORK ZONE SPEED LIMIT 45 SIGN ASSEMBLY where the workers are within 500 feet of the transition.

THIS TRAFFIC CONTROL DETAIL SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

● FLAGGER WITH TRAFFIC CONTROL SIGN

○ DRUMS OR BARRICADES WITH LIGHTS

WORK AREA

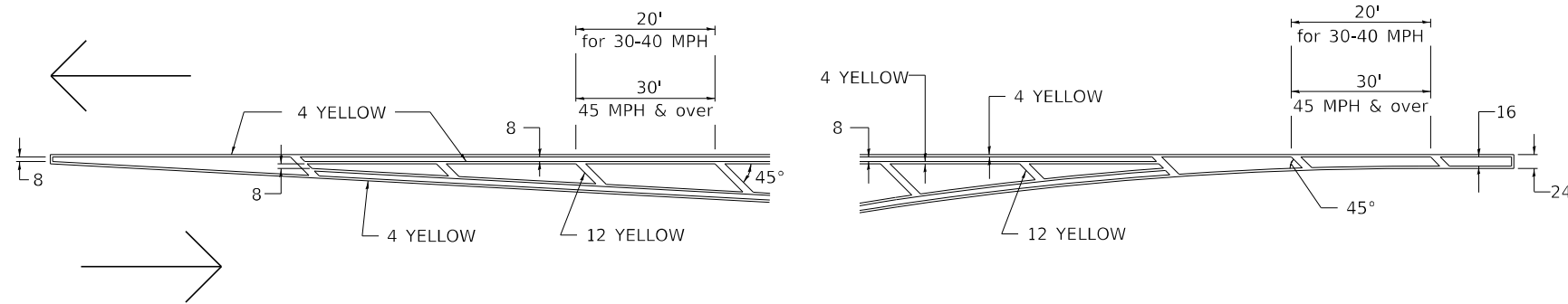
NOTE: STANDARDS 701301 AND 701306 SHALL NOT BE USED WITHIN 500 FEET OF THE TRANSITION.

FILE NAME: District 2 Standard	USER NAME = IDOT/District 2	DESIGNED -	REVISED - 4-20-17	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>REGION 2 / DISTRICT 2 STANDARD</b>			SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1,0000" / in.	CHECKED -	REVISED - 1-05-16		(195-3B,195-3HB)BDR	WHITESIDE	50	44			
PLOT DATE = 5/17/2023	DATE -	REVISED - 8-27-13	REVISED - 3-05-12		SCALE: NTS	SHEET 4 OF 4 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT CONTRACT NO. 64S31			

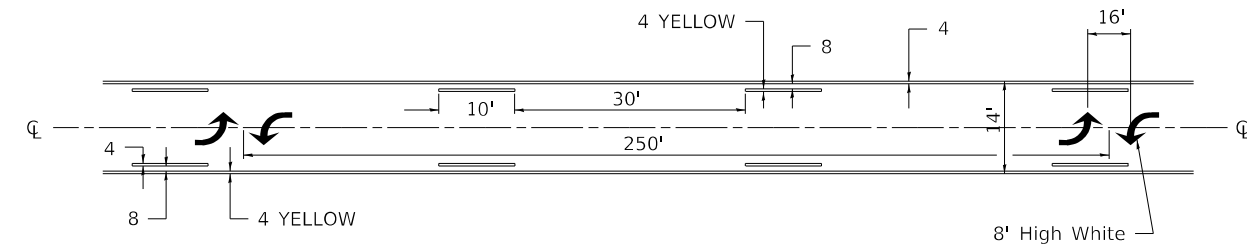


# TYPICAL PAVEMENT MARKINGS

## TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

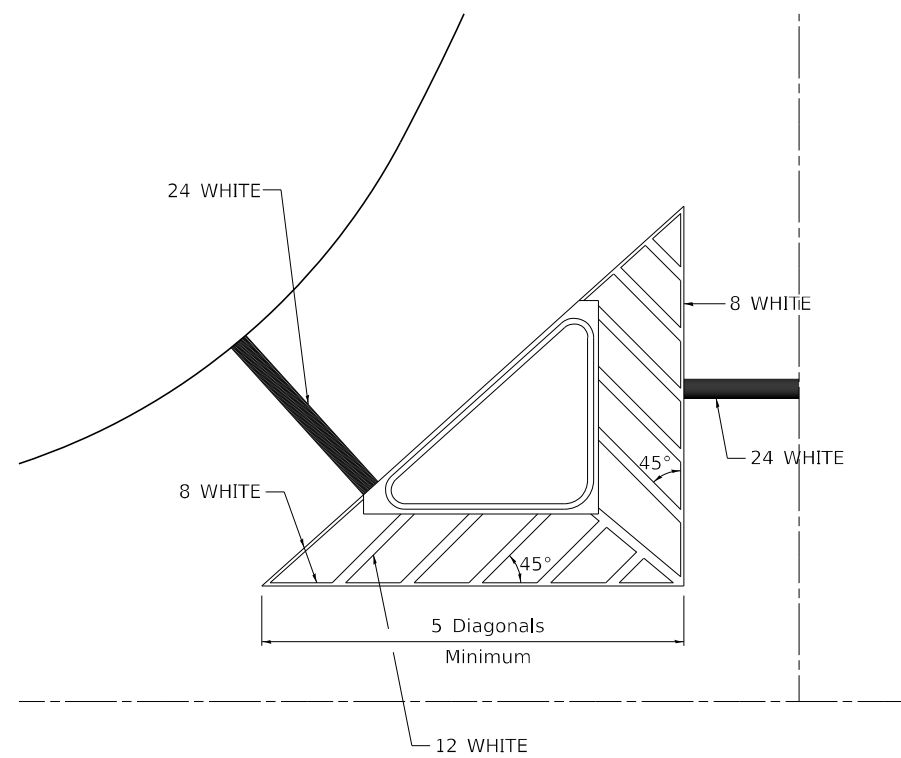


## MEDIAN PAVEMENT MARKING



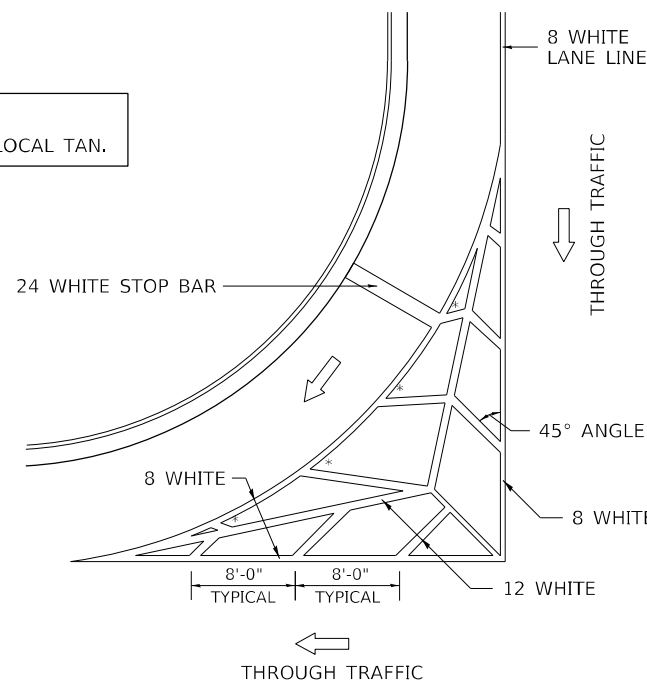
\*\* ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

## TYPICAL ISLAND OFFSET SHOULDER WIDTH



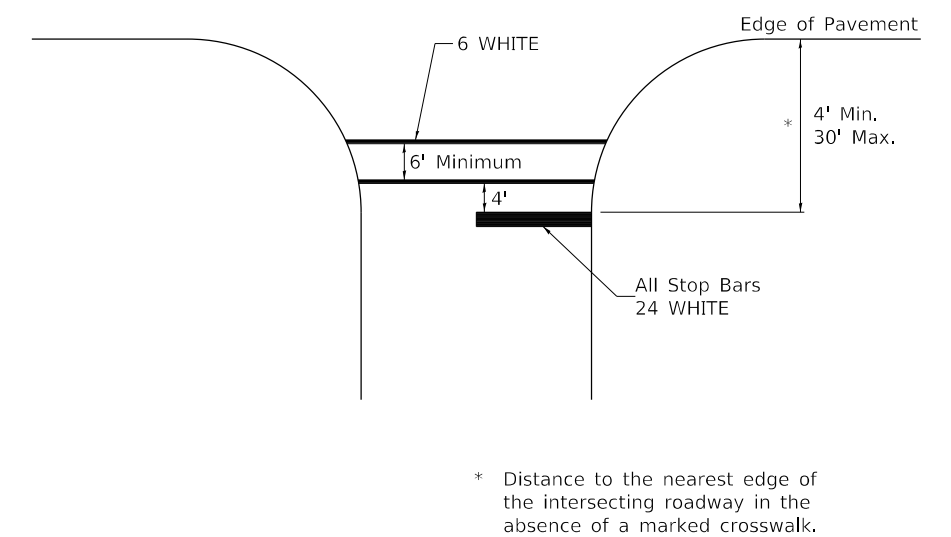
## TYPICAL MARKING FOR PAINTED ISLANDS

NOTE:  
\* 45° TO LOCAL TAN.



## STANDARD CROSSWALK MARKING

See Schedules for Locations

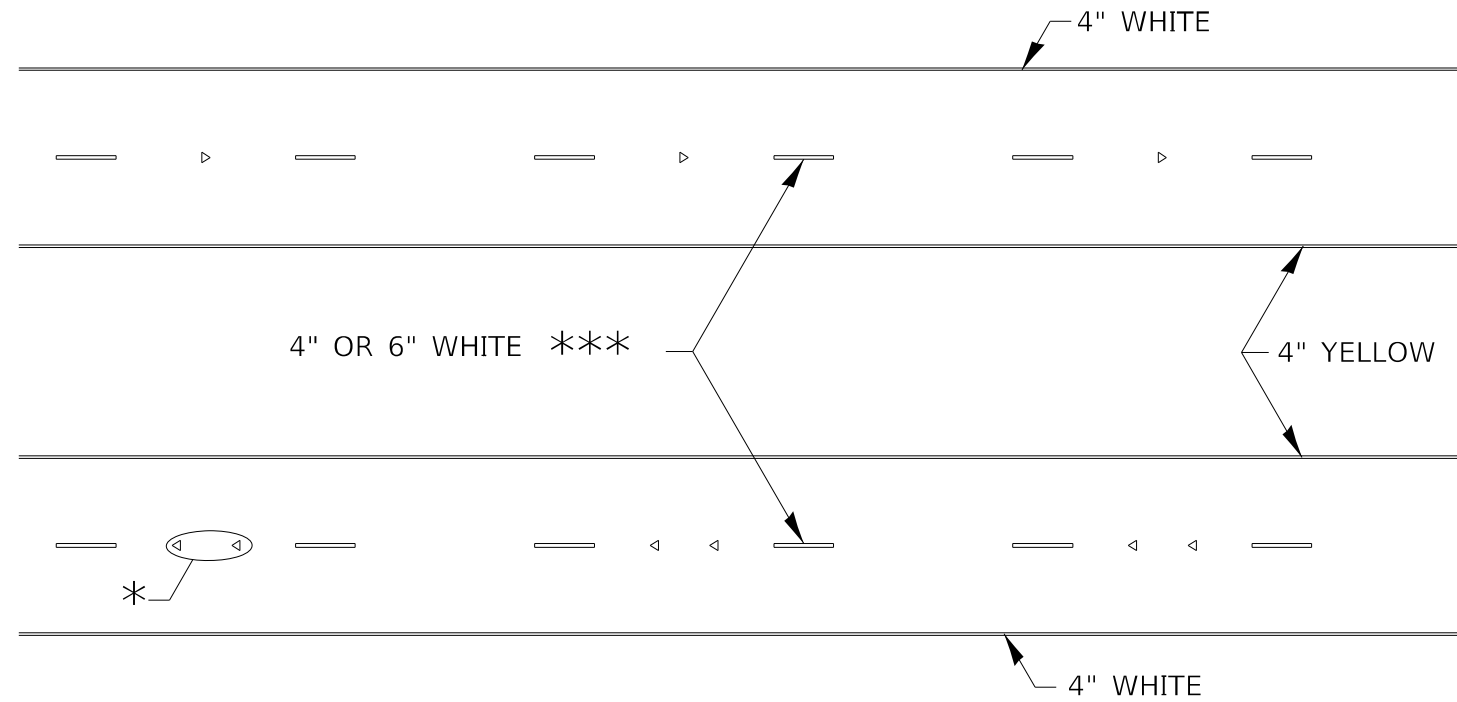


\* Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

FILE NAME: District 2 Standard	USER NAME = IDOT/District 2	DESIGNED -	REVISED - 6-27-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1,0000' / in.	DRAWN -	REVISED - 3-05-12					FAP 309 FAL88	(195-3B,195-3HB)BDR	WHITESIDE	50	45
	PLOT DATE = 5/17/2023	CHECKED -	REVISED -		SCALE: NTS	SHEET 1 OF 3 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT		CONTRACT NO. 64S31		

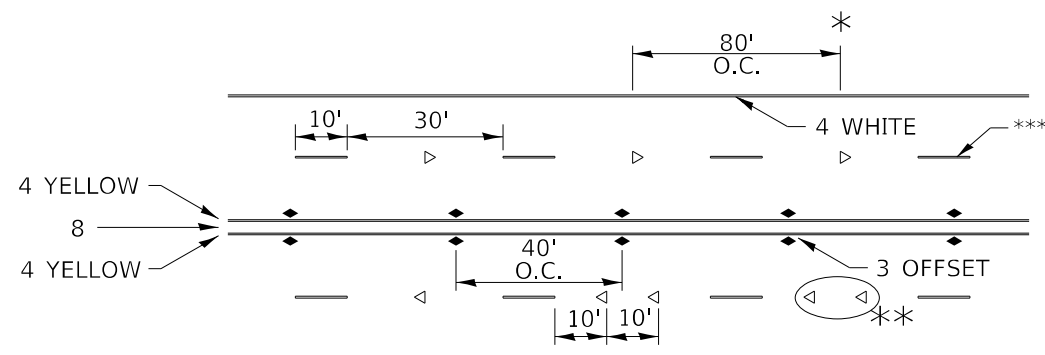


# TYPICAL PAVEMENT MARKINGS



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

## MULTI-LANE / DIVIDED



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

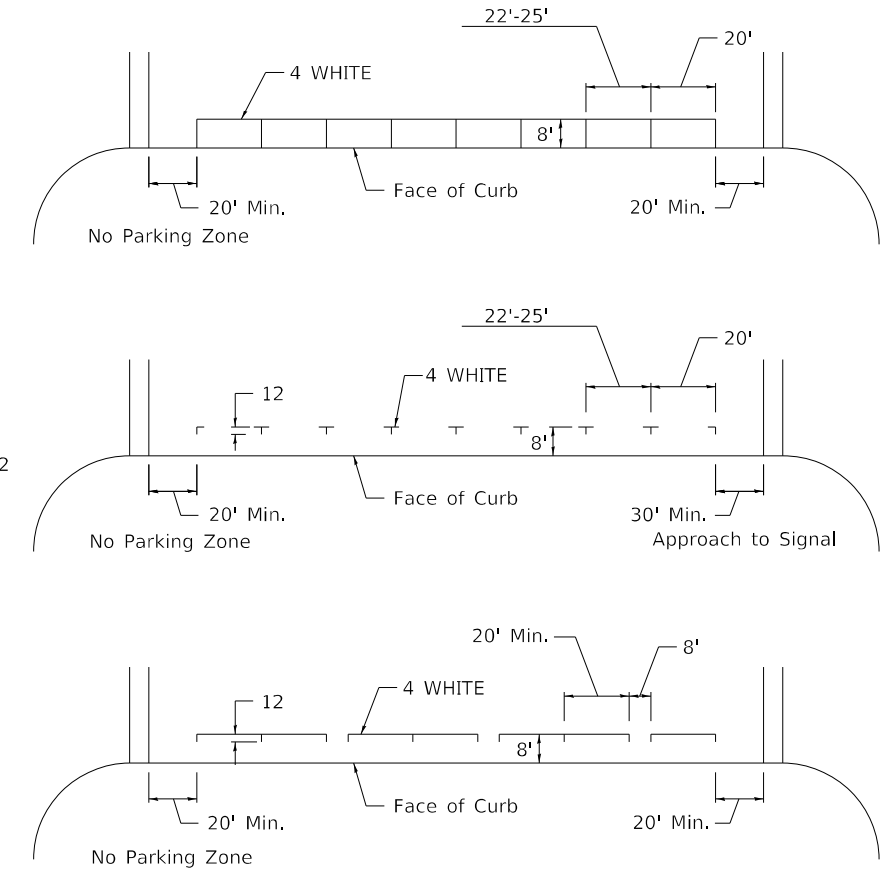
\*\* USE DOUBLE MARKERS WHEN ADT  $\geq$  20,000

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

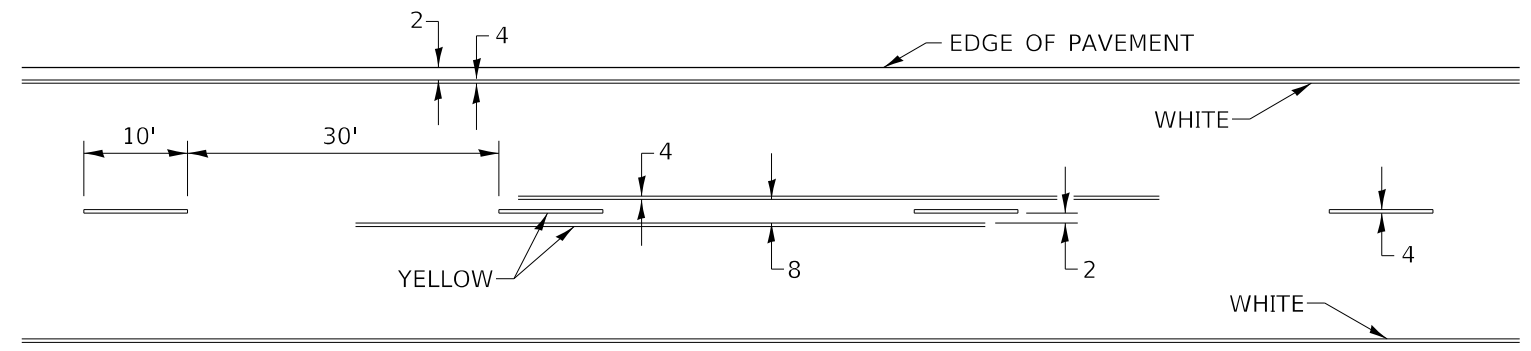
## MULTI-LANE / UNDIVIDED & ONE WAY

(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

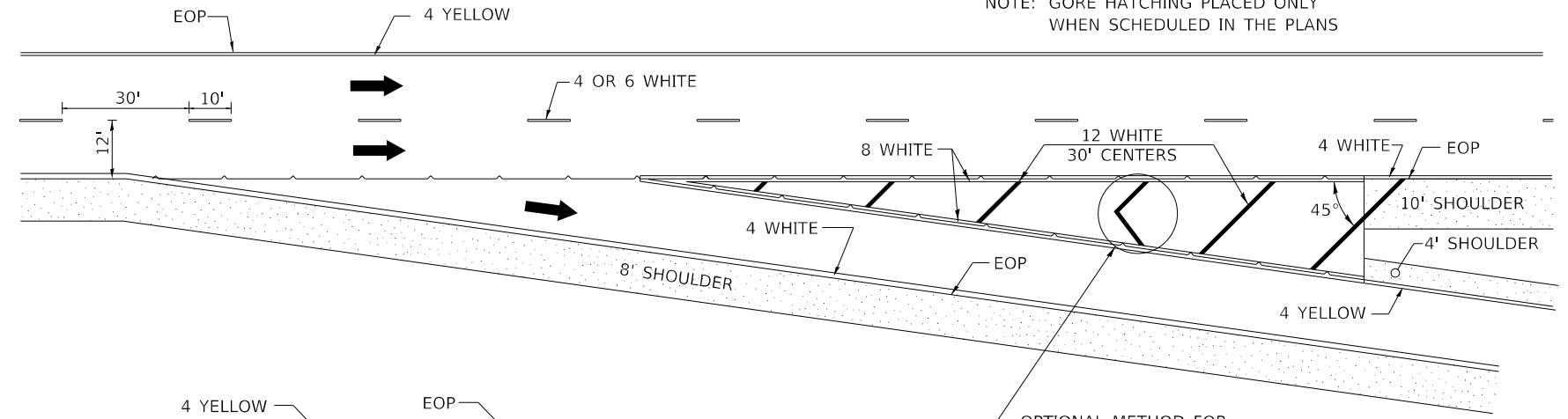
FILE NAME: District 2 Standard	USER NAME = IDOT/District 2	DESIGNED -	REVISED - 6-27-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1,0000' / in.	DRAWN -	REVISED - 8-27-13			FAP 309 FAI 88	(195-3B,195-3HB)BDR	WHITESIDE	50	47
	PLOT DATE = 5/17/2023	CHECKED -	REVISED - 11-28-12		SCALE: NTS	SHEET 3 OF 3 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT CONTRACT NO. 64S31	

# PAINING DETAILS

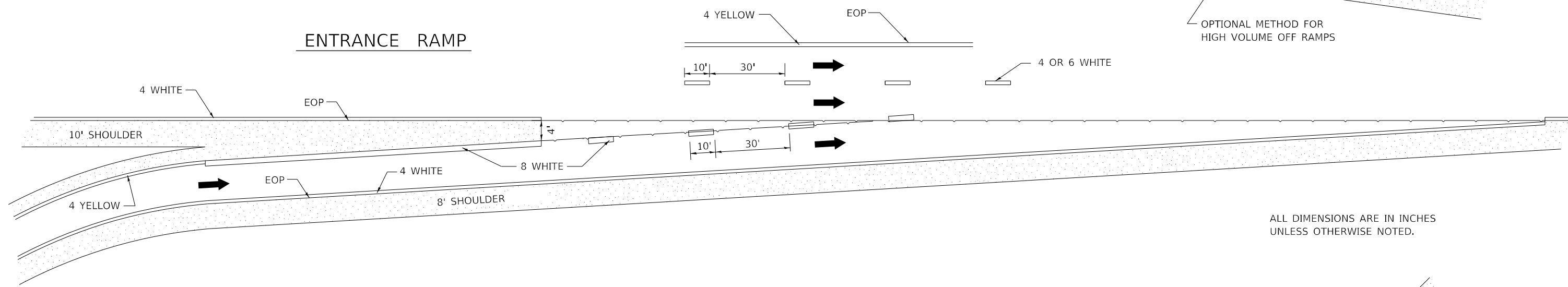
## EXIT RAMP

NOTE: GORE HATCHING PLACED ONLY WHEN SCHEDULED IN THE PLANS

CENTERLINE SKIP DASH PAVEMENT MARKING WIDTH SHALL BE 4" WHEN THE POSTED SPEED LIMIT IS UNDER 40 MPH AND 6" WHEN THE POSTED SPEED LIMIT IS 40 MPH AND OVER.

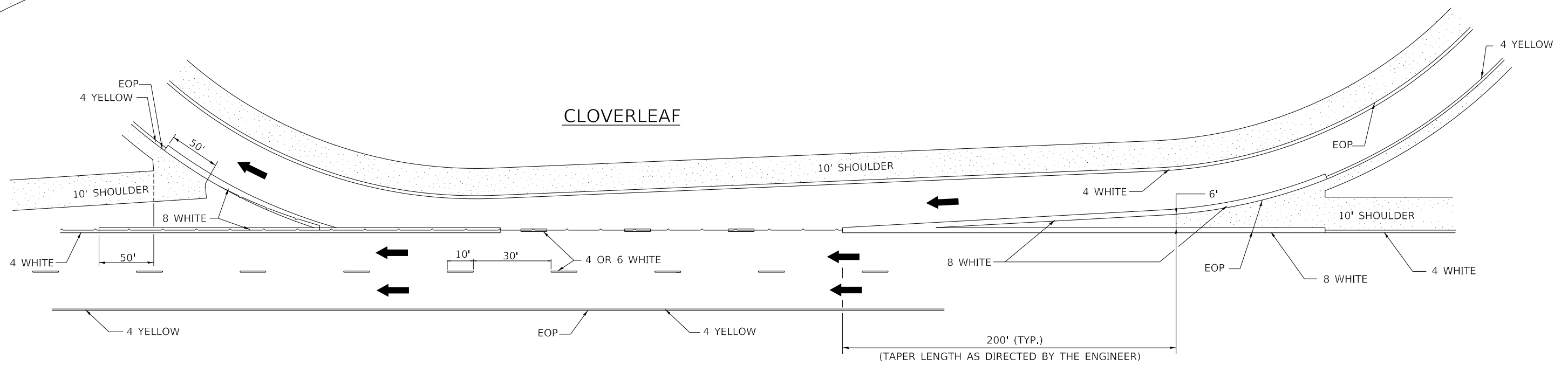


## ENTRANCE RAMP



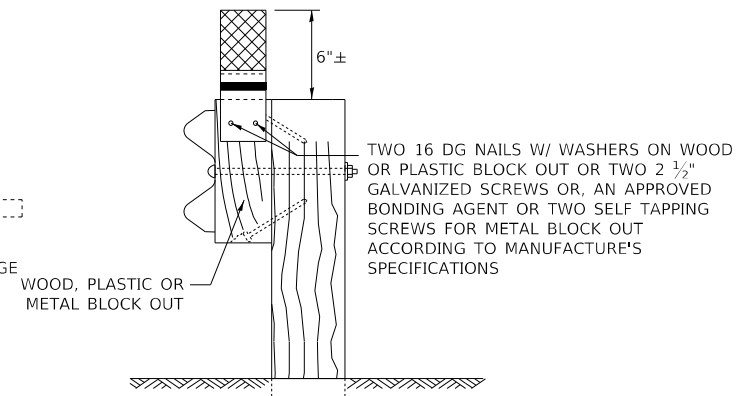
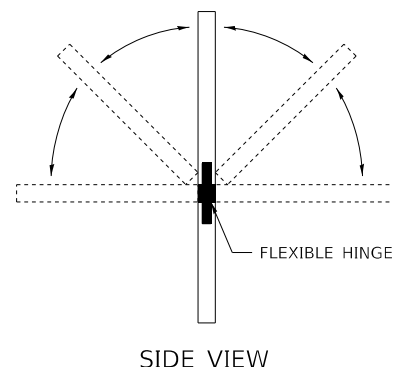
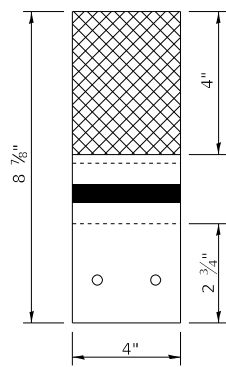
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

## CLOVERLEAF



FILE NAME: District 2 Standard	USER NAME = IDOT/District 2	DESIGNED -	REVISED - 8-27-13	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>REGION 2 / DISTRICT 2 STANDARD</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1,0000' / in.	DRAWN -	REVISED - 10-18-11					FAP 309	(195-3B,195-3HB)BDR	WHITESIDE	50	48
	PLOT DATE = 5/17/2023	CHECKED -	REVISED -					FAI 88				CONTRACT NO. 64S31
				SCALE: NTS SHEET OF SHEETS STA. TO STA.				ILLINOIS FED. AID PROJECT				

# GUARDRAIL AND BARRIER WALL REFLECTORS, TYPE C (SPECIAL)

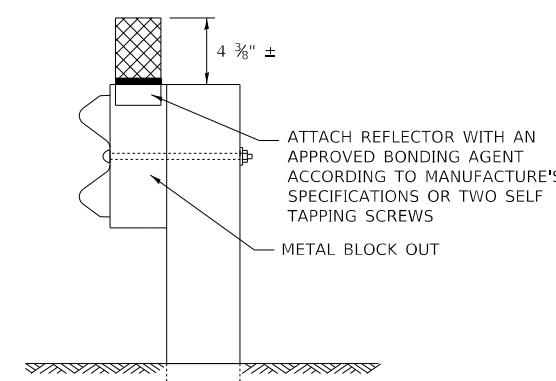
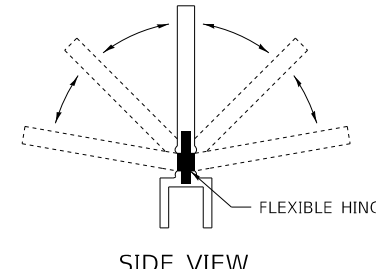
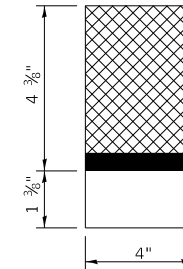


REFLECTORS SHALL BE MOUNTED DIRECTLY TO WOOD OR PLASTIC BLOCK OUTS.

REFLECTORS MOUNTED ON WOODEN OR PLASTIC BLOCK OUT SHALL BE MOUNTED USING TWO 16 DG NAILS AND TWO 3/16" WASHERS OR TWO 2 1/2" GALVANIZED SCREWS WITH WASHERS.

MOUNTED ON A WOOD OR PASTIC GUARDRAIL BLOCK OUT

## REFLECTORS MOUNTED ON WOOD OR PLASTIC GUARDRAIL BLOCK OUT



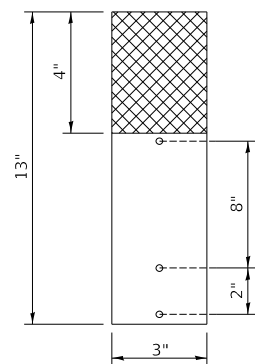
REFLECTORS SHALL BE MOUNTED DIRECTLY TO METAL BLOCK OUT.

REFLECTORS MOUNTED ON METAL BLOCK OUT SHALL BE MOUNTED USING AN APPROVED BONDING AGENT PER THE MANUFACTURE'S SPECIFICATIONS OR TWO SELF TAPPING GALVANIZED SCREWS WITH WASHERS.

MOUNTED ON A METAL GUARDRAIL BLOCK OUT

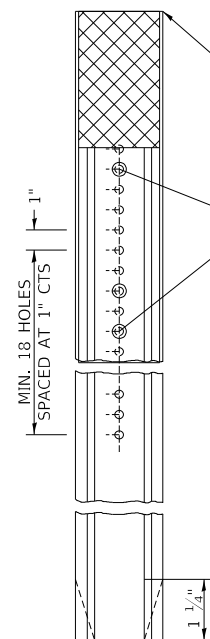
## REFLECTORS MOUNTED ON METAL GUARDRAIL BLOCK OUT

### STRAIGHT GUARDRAIL / DELINEATOR REFLECTOR



SIDE VIEW

ADDITIONAL SHEETING MAY BE ADDED AS NEEDED FOR TURN AROUNDS AS SHOWN IN THE PLANS



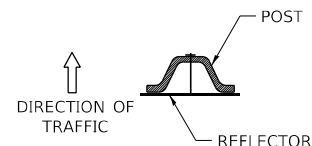
TOP OF REFLECTOR PLACED FLUSH WITH TOP OF POST UNLESS DOUBLE SIDED REFLECTOR IS CALLED FOR, THEN REFLECTOR SHALL BE PLACED SUCH THAT THE REFLECTOR IS ABOVE THE TOP OF THE POST AND VISIBLE.

10/24 X 1 1/2" BOLTS WITH WASHERS AND NUT (ADDITIONAL HOLES MAY BE DRILLED AS NEEDED)

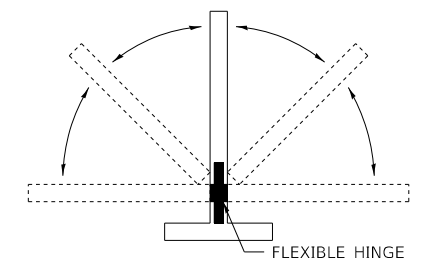
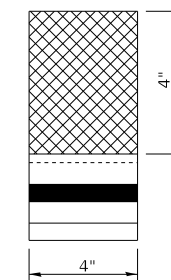
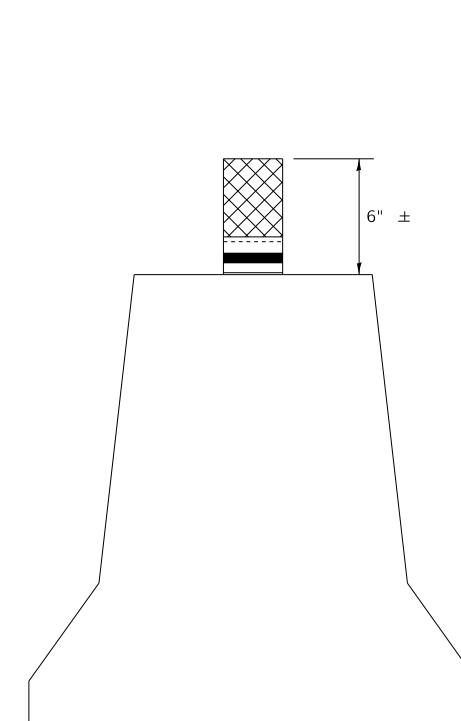
MOUNTED ON A DELINEATOR POST

REFLECTORS MAY BE MOUNTED TO DELINEATOR POST USING TWO 10/24 X 1 1/2" BOLTS WITH NUTS AND WASHERS.

ADDITIONAL HOLES SHALL BE DRILLED IN THE REFLECTORS AS SHOWN ABOVE.



DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180°. THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE REFLECTOR ATTACHECD AS SHOWN ABOVE.



SIDE VIEW

NOTE:

REFLECTORS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR GUARDRAIL REFLECTORS, TYPE C (SPECIAL), WHICH PRICE SHALL ALSO INCLUDE SCREWS/NAILS, WASHERS OR AN APPROVED BONDING AGENT.

REFLECTORS INSTALLED ON TWO LANE ROADS SHALL BE DOUBLE SIDED AND BOTH SIDES SHALL BE CRYSTAL.

REFLECTORS INSTALLED ON CENTER BARRIER SHALL BE DOUBLE SIDE AND BOTH SIDES SHALL BE AMBER.

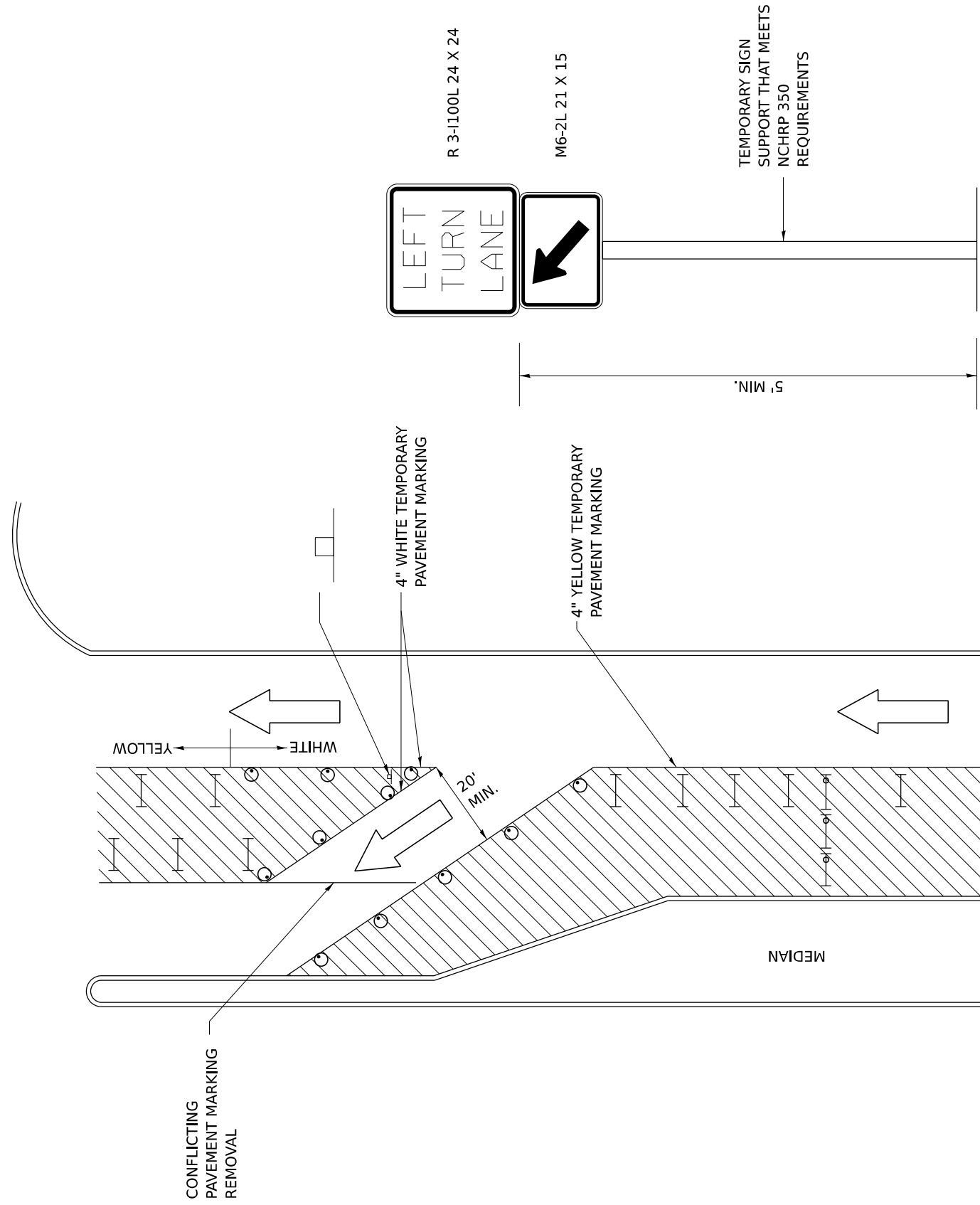
REFLECTORS INSTALLED ON DIVIDED HIGHWAYS SHALL BE SINGLE SIDED CRYSTAL.

SPACING FOR REFLECTORS SHALL BE ACCORDING TO STANDARD 782006 UNLESS OTHERWISE NOTED IN THE PLANS.

## REFLECTORS MOUNTED ON BARRIER WALL

FILE NAME: District 2 Standard	USER NAME = IDOT/District 2	DESIGNED -	REVISED - 4-27-23	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RT. SECTION COUNTY TOTAL SHEETS SHEET NO.	CONTRACT NO. 64S31
	PLOT SCALE = 1,0000' / in.	DRAWN -	REVISED - 6-21-21			(195-3B,195-3HB)BDR WHITESIDE 50 49	
	PLOT DATE = 5/17/2023	CHECKED -	REVISED -			ILLINOIS FED. AID PROJECT	

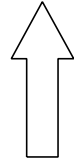
# TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)



## LEGEND



WORK AREA



LANE OPEN TO TRAFFIC



TYPE I OR II BARRICADE OR DRUM WITH FLASHING BURNING LIGHT



DRUM OR BARRICADE WITH STEADY BURN LIGHT



SIGN (SEE DETAIL)



TYPE I OR II CHECK BARRICADE WITH STEADY LIGHT BURN

## GENERAL NOTES

CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 IN HEIGHT.

STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS WILL BE MONODIRECTIONAL.

TEMPORARY PAVEMENT MARKING SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.

THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 X 24 AND M6-2R 21 X 15 SHALL BE USED.

THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

MODEL: 94r2  
 FILE NAME: District 2 Standard  
 PLOT DATE = 9/20/2023

REVISED - 10-14-11	REGION 2 / DISTRICT 2 STANDARD		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -			FAP 309	(195-3B, 195-3HB)BDR	WHITESIDE	50	50
REVISED -			FAL88				
REVISED -	SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 64S31