

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17A	(102BR-1)BRR	OGLE	30	1
		ILLINOIS	CONTRACT NO. 64T47	

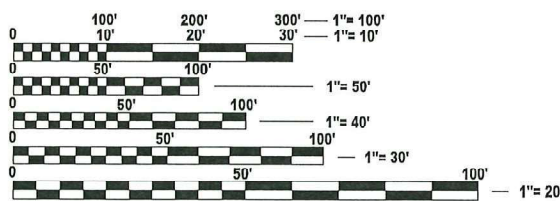
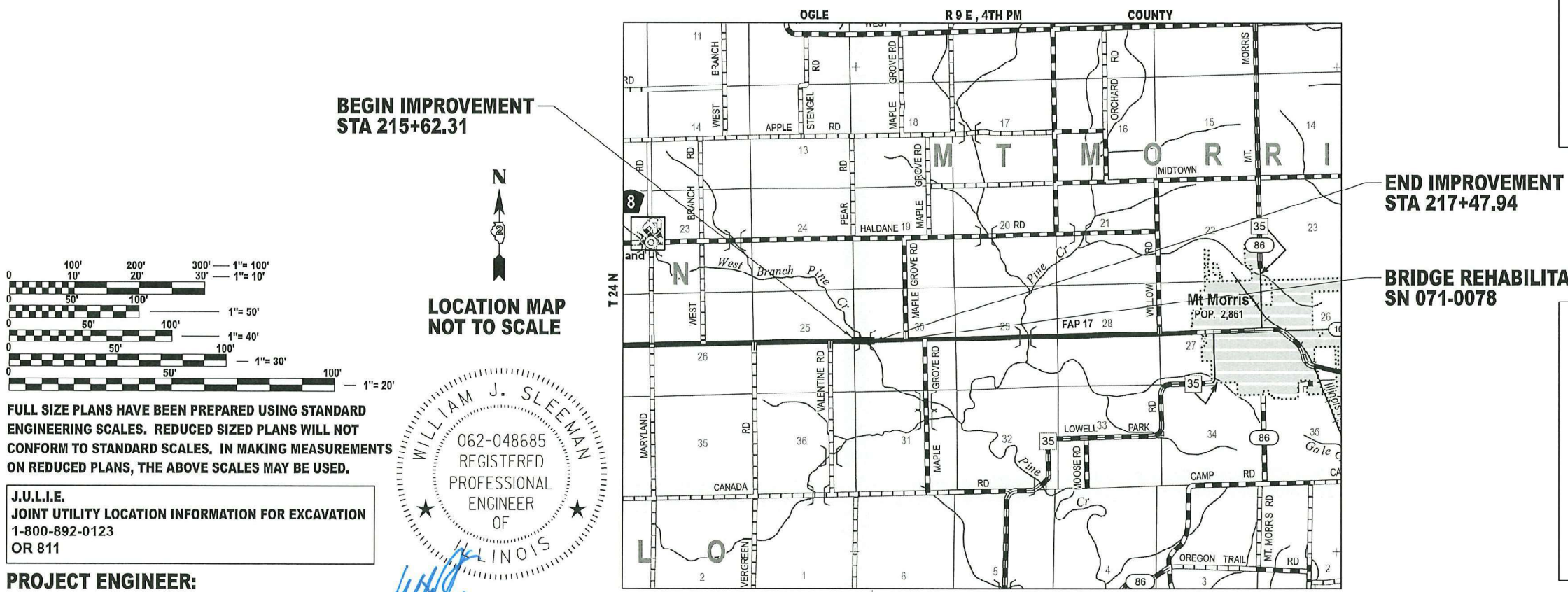
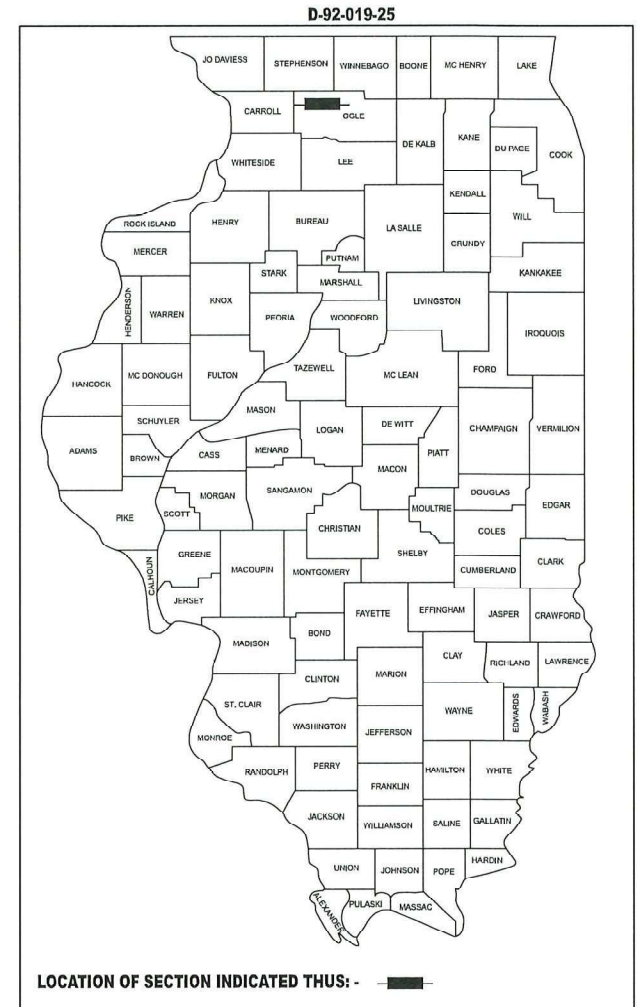
FOR INDEX OF SHEETS, SEE SHEET NO. 2  
FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

# PROPOSED HIGHWAY PLANS

FAP ROUTE 17A (IL 64)  
SECTION (102BR-1)BRR  
PROJECT STP-IQ9D(389)  
BRIDGE REHABILITATION  
OGLE COUNTY  
C-92-131-24

DESIGN DESIGNATION

TRAFFIC DATA



BEGIN IMPROVEMENT  
STA 215+62.31

END IMPROVEMENT  
STA 217+47.94

BRIDGE REHABILITATION  
SN 071-0078



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

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

PROJECT ENGINEER:

PROJECT MANAGER: DERRICK LOPEZ, PE  
(815) 284-5398

CONTRACT NO. 64T47

GROSS LENGTH = 185.63 FT. = 0.035 MILE  
NET LENGTH = 185.63 FT. = 0.035 MILE



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 25 20 26

*Julia Thompson*  
REGIONAL ENGINEER

May 8 20 26  
*[Signature]*  
ENGINEER OF DESIGN AND ENVIRONMENT

May 8 20 26  
*[Signature]*  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

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## HIGHWAY STANDARDS

000001-09 - STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS  
 001001-02 - AREAS OF REINFORCEMENT BARS  
 001006- DECIMAL OF AN INCH AND A FOOT  
 701006-05 - OFF-RD OPERATIONS 2L 2W 15' TO 24' FROM PAVEMENT EDGE  
 701201-05 - LANE CLOSURE, 2L 2W, DAY ONLY 45 MPH OR MORE  
 701301-04 - LANE CLOSURE, 2L 2W SHORT TIME OPERATIONS  
 701311-03 - LANE CLOSURE 2L 2W, MOVING OPERATIONS DAY ONLY  
 701321-19 - LANE CLOSURE, 2L 2W, BRIDGE REPAIR WITH BARRIER  
 701326-04 - LANE CLOSURE, 2L 2W, PAVEMENT WIDENING 45 MPH OR MORE  
 701901-11 - TRAFFIC CONTROL DEVICES  
 704001-08 - TEMPORARY CONCRETE BARRIER  
 780001-05 - TYPICAL PAVEMENT MARKINGS

## GENERAL NOTES

- ALL BORROW/WASTE/USE SITES MUST BE APPROVED BY THE DEPARTMENT PRIOR TO REMOVING ANY MATERIAL FROM THE PROJECT OR INITIATING ANY EARTHMOVING ACTIVITIES, INCLUDING TEMPORARY STOCKPILING OUTSIDE THE LIMITS OF CONSTRUCTION.
- THE CONTRACTOR SHALL SUBMIT A SEQUENCE OF CONSTRUCTION OPERATIONS TO THE RESIDENT ENGINEER FOR APPROVAL BEFORE THIS PROJECT IS STARTED.
- THE CONTRACTOR SHALL NOTIFY TRAFFIC OPERATIONS A MINIMUM OF 5 WORKING DAYS PRIOR TO PLACING PERMANENT PAVEMENT MARKING OR SIGNING.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED FOR NON-EMERGENCY WORK. THE JULIE NUMBER IS 800-892-0123.
- IDOT IS NOT A MEMBER OF JULIE. IF YOU ARE NEAR ANY OVERHEAD LIGHTING, INTERSECTION LIGHTING, OR TRAFFIC SIGNALS, CONTACT THE IDOT TRAFFIC OFFICE AT 815-284-5469 AT LEAST 48 HOURS PRIOR TO WORK.
- IN ADDITION TO FIELD REVIEW AND AERIAL DATA, PLAN DIMENSIONS AND DETAILS RELATING TO THE EXISTING FACILITIES HAVE BEEN TAKEN FROM EXISTING PLANS AND AERIALS AND ARE SUBJECT TO CONSTRUCTION VARIATIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THIS PROJECT, SPECIFICALLY AS THEY RELATE TO THE LUMP SUM PAY ITEMS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS, SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR CHANGE IN SCOPE OF WORK. HOWEVER, CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE BID PRICE FOR THE WORK.
- NO STREAM PERMITS HAVE BEEN PROCURED FOR THIS PROJECT. NONE IS REQUIRED FROM THE REGULATORY AGENCIES IF THERE IS NO DEBRIS FALLING OR BEING PLACED INTO THE STREAM. ANY TEMPORARY FILL IN THE STREAM OR THE COMPROMISING OF THE DIKE (IF APPLICABLE) WILL NOT BE ALLOWED. IF THE CONTRACTOR CHOOSES TO ALTERNATE/MODIFIED CONSTRUCTION METHOD(S), THEY WILL BE RESPONSIBLE FOR OBTAINING THE PROPER PERMITS. NO RELIEF OR COMPENSATION WILL BE GIVEN FOR ANY DELAYS, WORKING DAYS CHARGED, OR CALENDAR DAYS EXPIRED DUE TO THE LOSS OF TIME OR DELAY DURING THE RE-SUBMITTAL PROCESS TO PROCURE ANY NECESSARY PERMIT(S) DUE TO THE CONTRACTOR CHOOSING ALTERNATE/MODIFIED CONSTRUCTION METHOD(S). ABSOLUTELY NO CONSTRUCTION ACTIVITIES WILL TAKE PLACE WITHOUT THE PROPER PERMITS BEING SECURED.
- ALL ELEVATIONS SHOWN REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- IDOT DISTRICT 2 OPERATIONS TRAFFIC SIGNAL SECTION SHALL BE CONTACTED AT 815-284-5474 FOR CONTROLLER PROGRAMMING AND TIMING APPROVAL PRIOR TO ACTIVATING THE TEMPORARY BRIDGE TRAFFIC SIGNALS.
- SAW CUTTING PRIOR TO ANY REMOVAL ITEMS NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEMS BEING REMOVED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COLLECTING AND MAINTAINING AN ELECTRONIC LOG OF ALL STAKEOUT SURVEY THAT IS PERFORMED ON THE JOB, EITHER BY HIM/HER OR ANY SUB-CONTRACTOR PERFORMING THE STAKEOUT. UPON REQUEST, ALL LOGS SHALL BE SUBMITTED TO THE DEPARTMENT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THIS WORK, BUT SHALL BE CONSIDERED INCLUDED IN THE COST FOR CONSTRUCTION LAYOUT.
- UNLESS DIRECTED BY THE ENGINEER, PAVEMENT MARKING LINES SHALL NOT BE LAID DIRECTLY OVER A LONGITUDIAL CRACK OR JOINT NOR OVER A TAR OR ASPHALT PAINTED LINE.
  - THE EDGE OF A CENTERLINE SHALL BE OFFSET A MINIMUM DISTANCE OF 2" FROM A CRACK OR JOINT.
  - EDGE LINES SHALL BE APPROXIMATELY 2" FROM THE EDGE LINE OF PAVEMENT. SEE SECTION 780 OF THE STANDARD SPECIFICATIONS FOR TRAFFICE CONTROL ITEMS.

## MIXTURE REQUIREMENTS

SECTION	(102BR-1)BRR
COUNTY	STEPHENSON
CONTRACT	64T47

MIXTURE USE	SURFACE COURSE	BINDER COURSE
AC/PG	PG58-28	PG58-28
DESIGN AIR VOIDS	4.0% @ Ndes 50	4.0% @ Ndes 50
MIX COMPOSITION (GRADATION)	IL 9.5	IL 19.0
FRICITION AGG	MIXTURE "C"	N/A
QUALITY MANAGEMENT PROGRAM	QC/QA	QC/QA

APPLICATION RATES:

FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

ALL HOT-MIX ASPHALT..... 112 LB/SQ YD/INCH  
 BITUMINOUS MATERIALS (TACK COAT)\*  
 ON MILLED PAVEMENTS..... 0.05 LB/SQ FT  
 BETWEEN HMA LIFTS..... 0.05 LB/SQ FT  
 EXISTING PAVEMENT..... 0.05 LB/SQ FT  
 BITUMINOUS MATERIALS (PRIME COAT).... 0.025 LB/SQ FT  
 ALL AGGREGATE..... 2.05 TON/CU YD  
 \*POLYMER TACK SHALL BE SS-1HP, CSS-1HP,OR NTEA MATERIAL

## COMMITMENTS

- NONE

## GENERAL NOTES (CONTINUED)

- PAVEMENT MARKING SHALL BE DONE ACCORDING TO STANDARD 780001, EXCEPT AS FOLLOWS:
  - ALL WORDS, SUCH AS ONLY, SHALL BE 8 FEET HIGH.
  - ALL NON-FREWAY 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.
- THE QUANTITIES INCLUDED IN THE PLANS FOR HOT-MIX ASPHALT RESURFACING ARE INTENDED TO GIVE THE COVERAGE SHOWN ON THE TYPICAL CROSS SECTIONS. IT IS NOT INTENDED TO INCREASE THE THICKNESS OF THE HOT-MIX ASPHALT MICTURE IN ORDER TO USE ALL OF THE QUANTITIES INCLUDED IN THE CONTRACT.
- THE AREA TO BE TACKED OR PRIMED SHALL BE LIMITED TO THAT WHICH CAN BE COVERED WITH HMA ON THE NEXT DAY'S PRODUCTION, BUT NO MORE THAN FIVE DAYS IN ADVANCE OF THE PLACEMENT OF THE HMA, UNLESS APPROVED BY THE ENGINEER.
- RELOCATE TEMPORARY IMPACT ATTENUATORS SHALL INCLUDE STORAGE AND TRANSPORTATION TO AND FROM STORAGE. WHEN THE DEVICE IS NOT NEEDED FOR A TIME, AS SHOWN ON THE STAGING PLANS. THIS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER EACH IMPACT ATTENUATORS, RELOCATE OF THE TYPE SPECIFIED.
- WHEN RELOCATED TEMPORARY CONCRETE BARRIER IS SPECIFIED, THE WALL SHALL BE REMOVED, STORAGE AND TRANSPORTATION TO AND FROM STORAGE. WHEN THE WALL IS NOT NEEDED FOR A TIME AS SHOWN ON THE STAGING PLANS, RELOCATED AND REINSTATED AT THE NEW LOCATION. THE REINSTALLATION REQUIREMENTS SHALL BE THE SAME AS THOSE FOR A NEW INSTALLATION. THIS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR RELOCATE TEMPORARY CONCRETE BARRIER.
- THE CONTRACTOR SHALL CONFINE HIS/HER OPERATIONS TO THE AREA LOCATED WITHIN THE CONSTRUCTION LIMITS SHOWN ON THE PLANS. ANY AREA DISTURBED BEYOND THESE LIMITS SHALL BE RESTORED TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE DEPARTMENT.
- AREAS OF DECK REPAIRS ARE SHOWN AS ESTIMATED. THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF DECK REPAIRS ON AS-BUILT PLANS.

MODEL - GENERAL NOTES (Sheet) #071-0078\Design\CADD Sheets\071-0078 - sht 002 - General Notes.dgn  
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USER NAME = gsturgeon	DESIGNED - WJS	REVISED -
	DRAWN - GJS	REVISED -
PLOT SCALE = \$SCALES	CHECKED - WJS	REVISED -
PLOT DATE = 3/23/2026	DATE - XX	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, GENERAL NOTES, HIGHWAY STANDARDS,  
COMMITMENTS & MIXTURE REQUIREMENTS**

SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. \_\_\_+\_\_\_ TO STA. \_\_\_+\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17A	(102BR-1)BRR	OGLE	30	2
CONTRACT NO. 64T47				
ILLINOIS		FED. AID PROJECT		

MODEL: SQQ 1  
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				OGLE COUNTY	
				FUNDING: 80% FED/20% STATE	
				ROADWAY	BRIDGE
				0059	0059
				RURAL	S.N. 071-0078
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	372	372	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	326	326	
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	16	16	
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	64	64	
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	339	339	
50102400	CONCRETE REMOVAL	CU YD	33.2		33.2
50300255	CONCRETE SUPERSTRUCTURE	CU YD	35.2		35.2
50300300	PROTECTIVE COAT	SQ YD	62		62
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	4410		4410
50800515	BAR SPLICERS	EACH	36		36
52000110	PREFORMED JOINT STRIP SEAL	FOOT	94		94
53016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	2		2
53101002	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	581		581

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	CHECKED - WJS	REVISED -
PLOT DATE = 3/23/2026	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
 SN 071-0078**

SCALE: 1"=50' SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17A	(102BR-1)BRR	OGLE	30	3
CONTRACT NO. 64T47				
ILLINOIS FED. AID PROJECT				

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				OGLE COUNTY	
				FUNDING: 80% FED/20% STATE	
				ROADWAY	BRIDGE
				0059	0059
				RURAL	S.N. 071-0078
53101408	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/4"	SQ YD	581		581
53212754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	3		3
60260100	INLETS TO BE ADJUSTED	EACH	2		2
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	2	2	
67100100	MOBILIZATION	L SUM	1	1	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	5	5	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	28	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	889	889	
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	2594	2594	
70307210	TEMPORARY PAVEMENT MARKING - LINE 24" - TYPE IV TAPE	FOOT	24	24	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	418	418	

USER NAME = gsturjeon	DESIGNED - GJD	REVISED -
	DRAWN - GJS	REVISED -
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PLOT DATE = 3/23/2026	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
 SN 071-0078**

SCALE: 1"=50' SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17A	(102BR-1)BRR	OGLE	30	4
CONTRACT NO. 64T47			ILLINOIS FED. AID PROJECT	

MODEL: SOQ 3 Sheet  
 FILE NAME: P:\26E4183-1\Structure #071-0078\Design\CADD Sheets\071-0078 - sht 003 - 005 - SOQ.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				OGLE COUNTY	
				FUNDING: 80%FED/20% STATE	
				ROADWAY	BRIDGE
				0059	0059
				RURAL	S.N. 071-0078
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	418	418	
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	1229	1229	
* 78011025	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	800	800	
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	428	428	
X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	298		298
* X7820008	BARRIER WALL REFLECTORS (SPECIAL)	EACH	10	10	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
Z0041895	POLYMER CONCRETE	CU FT	3		3
Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	570		570
Z0043800	PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR	SQ FT	6		6
Z0032400	JOINT REPAIR	EACH	14		14

\*= SPECIALTY ITEM

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PLOT DATE = 3/23/2026	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
 SN 071-0078**

SCALE: 1"=50' SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17A	(102BR-1)BRR	OGLE	30	5
CONTRACT NO. 64T47				
ILLINOIS FED. AID PROJECT				

PAVING SCHEDULE								
LOCATION				40600295	40600982	40603080	40604050	44000157
STATION	TO	STATION	OFFSET	BITUMINOUS MATERIALS (TACK COAT)	HMA SURFACE REMOVAL - BUTT JOINT	HMA BINDER COURSE, IL-19.0 N50 (VARIES)	HMA SURFACE COURSE, IL-9.5 MIX "C", N50	HOT-MIX SURFACE REMOVAL, 2"
				POUND	SQ YD	TON	TON	SQ YD
<b>SHOULDERS - PRESTAGE</b>								
214+42.00	-	216+02.60	RT	33			8	71.4
214+42.00	-	215+73.60	LT	27			6.6	58.5
217+20.22	-	219+59.25	LT	48			11.9	106.3
217+49.22	-	219+79.00	RT	46			11.5	102.2
<b>SHOULDERS - POSTSTAGE</b>								
215+23.42	-	216+02.60	RT	23.8	36	2.2	1.9	
215+23.42	-	215+73.60	LT	15.1	23	1.1	3	
217+20.22	-	217+92.61	LT	21.8	33	2.0	2.8	
217+49.22	-	217+92.61	RT	13.1	20	0.9	1.7	
<b>MAINLINE - POST STAGE</b>								
215+23.42	-	215+63.42	-	72	107	4.5	8.2	
217+52.61	-	217+92.61	-	72	107	4.5	8.2	
<b>TOTAL</b>				<b>372</b>	<b>326</b>	<b>16</b>	<b>64</b>	<b>339</b>

MODIFIED URETHANE PAVEMENT MARKING - LINE 4"					GROOVING	
SN #071-0078 - POST STAGE					78009004	78011025
LOCATION					LENGTH	LENGTH
STATION	TO	STATION	OFFSET	TYPE	FT	FT
212+80.00	-	215+63.42	-	YELLOW	80.0	80.0
214+57.29	-	215+63.42	RT	WHITE	106.1	106.1
214+58.87	-	215+63.42	LT	WHITE	104.5	104.5
215+63.42	-	217+52.61	-	YELLOW	50.0	
215+64.42	-	217+53.61	LT	WHITE	189.2	
215+65.42	-	217+54.61	RT	WHITE	189.2	
217+52.61	-	219+49.26	LT	WHITE	196.6	196.6
217+53.61	-	219+66.56	RT	WHITE	213.0	213.0
217+52.61		221+35.00	-	YELLOW	100.0	100.0
SUBTOTAL					1,229	800
<b>TOTAL</b>					<b>1,229</b>	<b>800</b>

PAVEMENT MARKING REMOVAL - WATER BLASTING				
SN #071-0078 - PRE STAGE				78300202
LOCATION				AREA
STATION	TO	STATION	OFFSET	SQ FT
212+80.00	-	221+35.00	-	76.7
214+42.00	-	219+79.00	RT	179.0
214+42.00	-	219+59.25	LT	172.5
SUBTOTAL				428
<b>TOTAL</b>				<b>428</b>

TRAFFIC CONTROL			
LOCATION			X7820008
STATION	TO	STATION	BARRIER WALL REFLECTORS (SPECIAL)
SN #071-0036 - PRE-STAGE			
SN #071-0036 - PHASE 1			5
SN #071-0036 - PHASE 2			5
SN #071-0036 - POST-STAGE			
<b>TOTAL</b>			<b>10</b>

MODEL: SOQ 1  
 FILE NAME: P:\25E4183-1\Structure #071-0078\Design\Design\CADD Sheets\071-0078 - sht 006 - sht 007 - Schedules.dgn

USER NAME = gsturjeon	DESIGNED - GJS	REVISED -
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	CHECKED - WJS	REVISED -
PLOT DATE = 3/23/2026	DATE -	REVISED -

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

**SCHEDULE OF QUANTITIES**  
**SN 071-0078**

SCALE: 1"=50'    SHEET 1 OF 2 SHEETS    STA. 0+01.73    TO STA. 15+01.73

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17A	(102BR-1)BRR	OGLE	30	6
CONTRACT NO. 64T47				
ILLINOIS   FED. AID PROJECT				

TEMPORARY PAVEMENT MARKING SCHEDULE										
LOCATION				70300150	70307120	70307210	70400100	70400200	70600250	70600350
STATION	TO	STATION	OFFSET	SHORT TERM PAVEMENT MARKING REMOVAL	TEMPORARY PAVEMENT MARKING - LINE 4" TAPE IV TAPE	TEMPORARY PAVEMENT MARKING - LINE 24" TAPE IV TAPE	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3
				SQ FT	FT	FT	FT	FT	EACH	EACH
<b>SN #071-0078 - PRE-STAGE</b>										
212+80.00		0' RT				12				
221+35		0' LT				12				
SN #071-0078 - PRE-STAGE SUBTOTAL				0	0	24	0	0	0	0
<b>SN #071-0078 - STAGE 1</b>										
212+96.00	-	214+88.00	12' RT - 4' LT	64.2	192.7					
214+42.00	-	214+88.00	12' LT - 15' LT	15.4	46.1					
214+46.90		6' RT							1	
214+49.75	-	215+38.42	6' RT - 1.0' LT				88.7			
214+88.00	-	219+10.90	4' LT	141.0	422.9					
214+88.00	-	219+10.90	15' LT	141.0	422.9					
215+38.42	-	217+79.08	3.3' LT				240.7			
217+79.08	-	218+67.75	1.0' LT - 6.0' RT				88.7			
218+67.75		6.0' RT							1	
219+10.90	-	219+58.90	4.0' LT - 0' LT	16.1	48.2					
219+10.90	-	219+59.25	15.0' LT - 12.0' LT	12.8	38.5					
219+58.90	-	220+58.90	0.0' LT - 12.0' RT	33.3	100.0					
SN #071-0078 - STAGE 1 SUBTOTAL				424	1271	0	418	0	2	0
<b>SN #071-0078 - STAGE 2</b>										
213+40.00	-	214+40.00	12' LT - 0' LT	33.3	100.0					
214+49.75		6.0' LT								1
214+49.75	-	215+38.42	6.0' LT - 1.0' RT					88.7		
214+40.00	-	214+88.00	0' RT - 4.0' RT	16.1	48.2					
021+42.00	-	214+88.00	12' RT - 15.0' RT	15.4	46.1					
214+88.00	-	219+33.35	15.0' RT	148.3	445.0					
214+88.00	-	219+33.35	4.0' RT	148.3	445.0					
215+38.42	-	218+79.08	1.0' RT					240.7		
218+79.08	-	218+67.75	1.0' RT - 6.0' LT					88.7		
218+67.75		6.0' LT								1
219+33.00	-	219+79.00	15.0' RT - 12.0' RT	15.4	46.1					
219+33.00	-	221+25.00	4.0' RT - 12.0' LT	64.2	192.7					
SN #071-0078 - STAGE 2 SUBTOTAL				441	1323	0	0	418.0	0	2
<b>SN #071-0078 - POST-STAGE</b>										
212+82.51		0' RT		12						
221+36.64		0' LT		12						
SN #071-0078 - POST-STAGE SUBTOTAL				24	0	0	0	0	0	0
<b>TOTAL</b>				<b>889</b>	<b>2,594</b>	<b>24</b>	<b>418</b>	<b>418</b>	<b>2</b>	<b>2</b>

MODEL: SOQ 2  
FILE NAME: P:\25E4183-1\Structure #071-0078\Design\CADD Sheets\071-0078 - sht 006 - sht 007 - Schedules.dgn

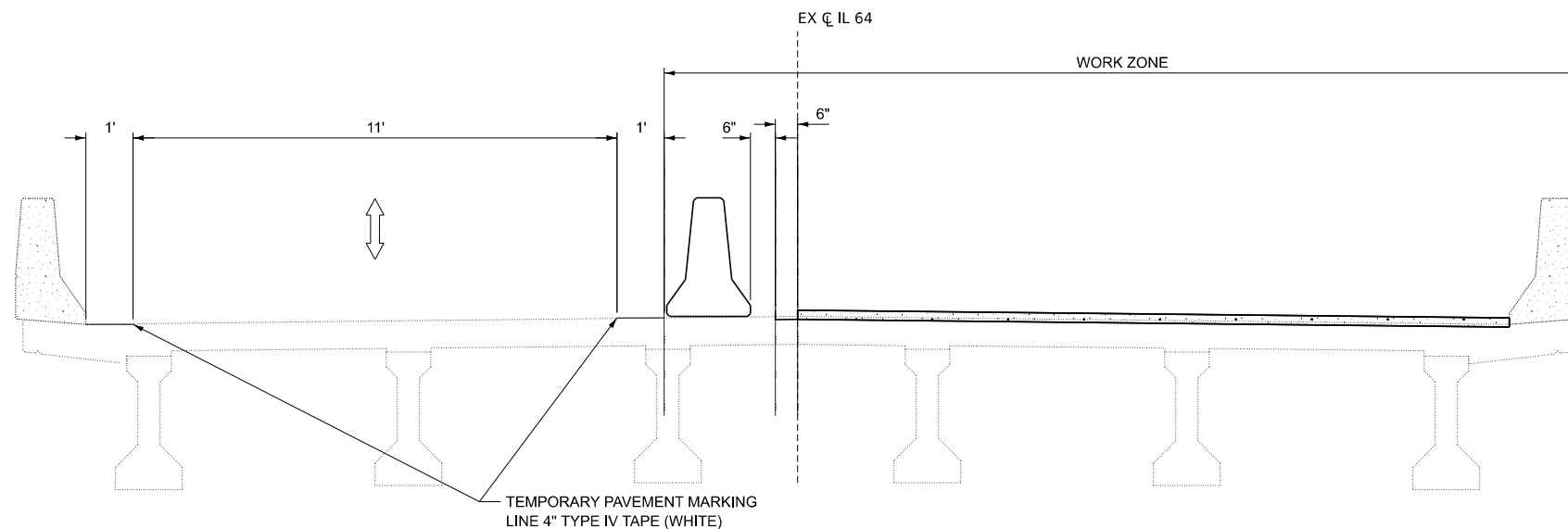
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	CHECKED - WJS	REVISED -
PLOT DATE = 3/23/2026	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES  
SN 071-0078**

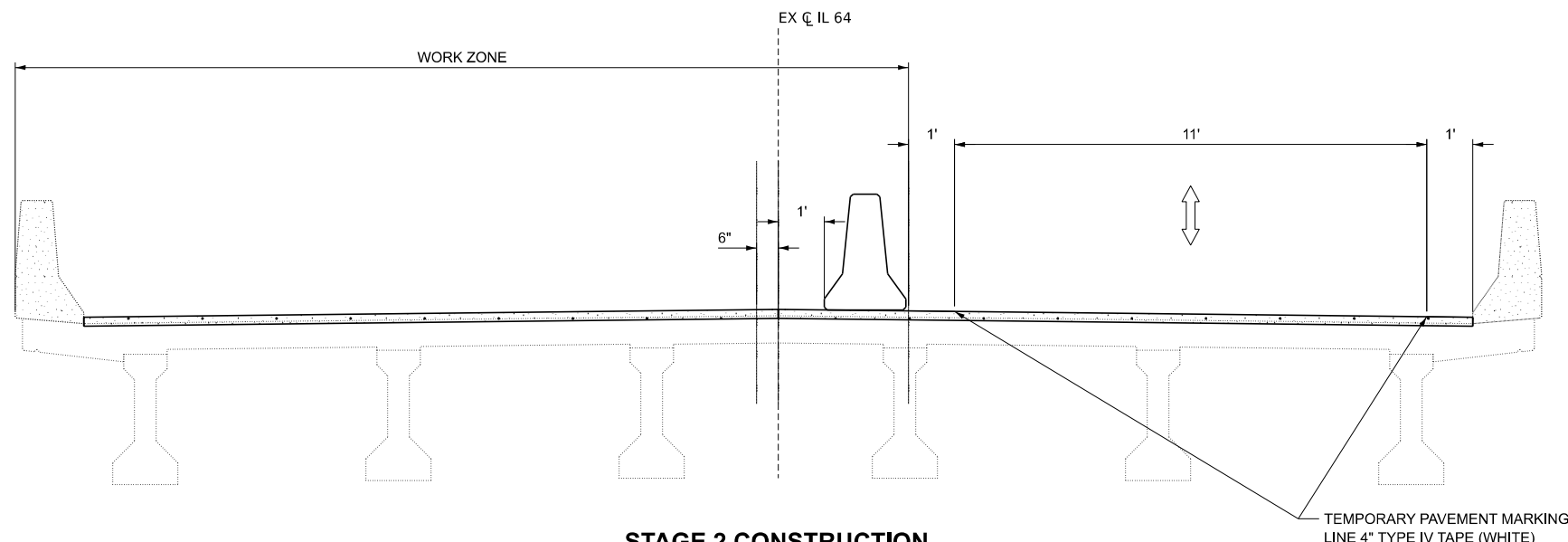
SCALE: 1"=50' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17A	(102BR-1)BRR	OGLE	30	7
			CONTRACT NO. 64T47	
		ILLINOIS	FED. AID PROJECT	



**STAGE 1 CONSTRUCTION**

STA 507+81.25 TO STA 509+70.45  
(LOOKING EAST)



**STAGE 2 CONSTRUCTION**

STA 507+81.25 TO STA 509+70.45  
(LOOKING EAST)

**STAGE CONSTRUCTION NOTES**

**PRE STAGE - SEQUENCE OF CONSTRUCTION**

1. CONSTRUCT HMA SHOULDER WIDENING UTILIZING TRAFFIC CONTROL STANDARD 701326.
2. PLACE "MAX WIDTH" SIGNING AT LOCATIONS SHOWN IN THE PLANS.
3. SET UP STAGE 1 TRAFFIC CONTROL UTILIZING THESE PLANS AND IN CONJUNCTION WITH STANDARD 701321.

**STAGE 1 - SEQUENCE OF CONSTRUCTION**

1. PERFORM STAGE 1 REMOVAL AND PROPOSED CONSTRUCTION FOR SN 071-0078.

**STAGE 2 - SEQUENCE OF CONSTRUCTION**

1. FOLLOWING COMPLETION OF STAGE 1 CONSTRUCTION, REMOVE STAGE 1 TEMPORARY PAVEMENT MARKINGS.
2. SET UP STAGE 2 TRAFFIC CONTROL UTILIZING THESE PLANS AND IN CONJUNCTION WITH STANDARD 701321.
3. PERFORM STAGE 2 REMOVAL AND PROPOSED CONSTRUCTION FOR SN 071-0078.

**POST STAGE - SEQUENCE OF CONSTRUCTION**

1. FOLLOWING THE CONSTRUCTION OF THE PROPOSED CONSTRUCTION WORK FOR THE STRUCTURE, REMOVE TEMPORARY CONCRETE BARRIERS, ATTENUATORS, TEMPORARY PAVEMENT MARKINGS, STOP BARS, ETC. PLACE SHORT TERM PAVEMENT MARKING PRIOR TO OPENING TO TWO-WAY TRAFFIC. PLACE PERMANENT PAVEMENT MARKINGS AND PAINT STEEL ON STRUCTURE UTILIZING APPROPRIATE HIGHWAY STANDARDS.

**TRAFFIC CONTROL NOTES:**

1. THIS TRAFFIC CONTROL PLAN SHALL BE USED IN CONJUNCTION WITH STANDARD 701321. TEMPORARY RUMBLE STRIPS, TEMPORARY SIGNING AND TEMPORARY PAVEMENT MARKINGS NOT SHOWN IN THIS DETAIL WILL BE REQUIRED AND SHALL BE INSTALLED AS SHOWN IN STANDARD 701321. TRAFFIC CONTROL DEVICES NOT SHOWN IN THIS DETAIL SHALL BE PER STANDARD 701321.
2. ALL OFFSETS IN THIS DETAIL REFER TO THE EDGE OF BARRIER OR PAVEMENT MARKING LINE NEAREST TO LIVE TRAFFIC. OUTSIDE PAVEMENT MARKING LINE SHALL BE OFFSET 10' PARALLEL.
3. A QUANTITY OF 825 FEET OF TEMPORARY PAVEMENT MARKING LINE, 6" HAS BEEN INCLUDED IN THE PLANS FOR PAINTING THE BOTTOM VERTICAL 6" OF THE TEMPORARY CONCRETE BARRIERS ON BOTH SIDES. COLOR OF MARKING LINE SHALL BE YELLOW.
4. WHERE PERMANENT RRPM ARE PRESENT AND CONFLICT WITH THE REVISED TRAFFIC PATTERNS, ONLY THE REFLECTORS SHALL BE REMOVED.

MODEL: Sheet 2  
FILE NAME: P:\25E4183-1\Structure #071-0078\Design\CADD\_Sheets\071-0078 - sht.008 - MOT Typical.dgn

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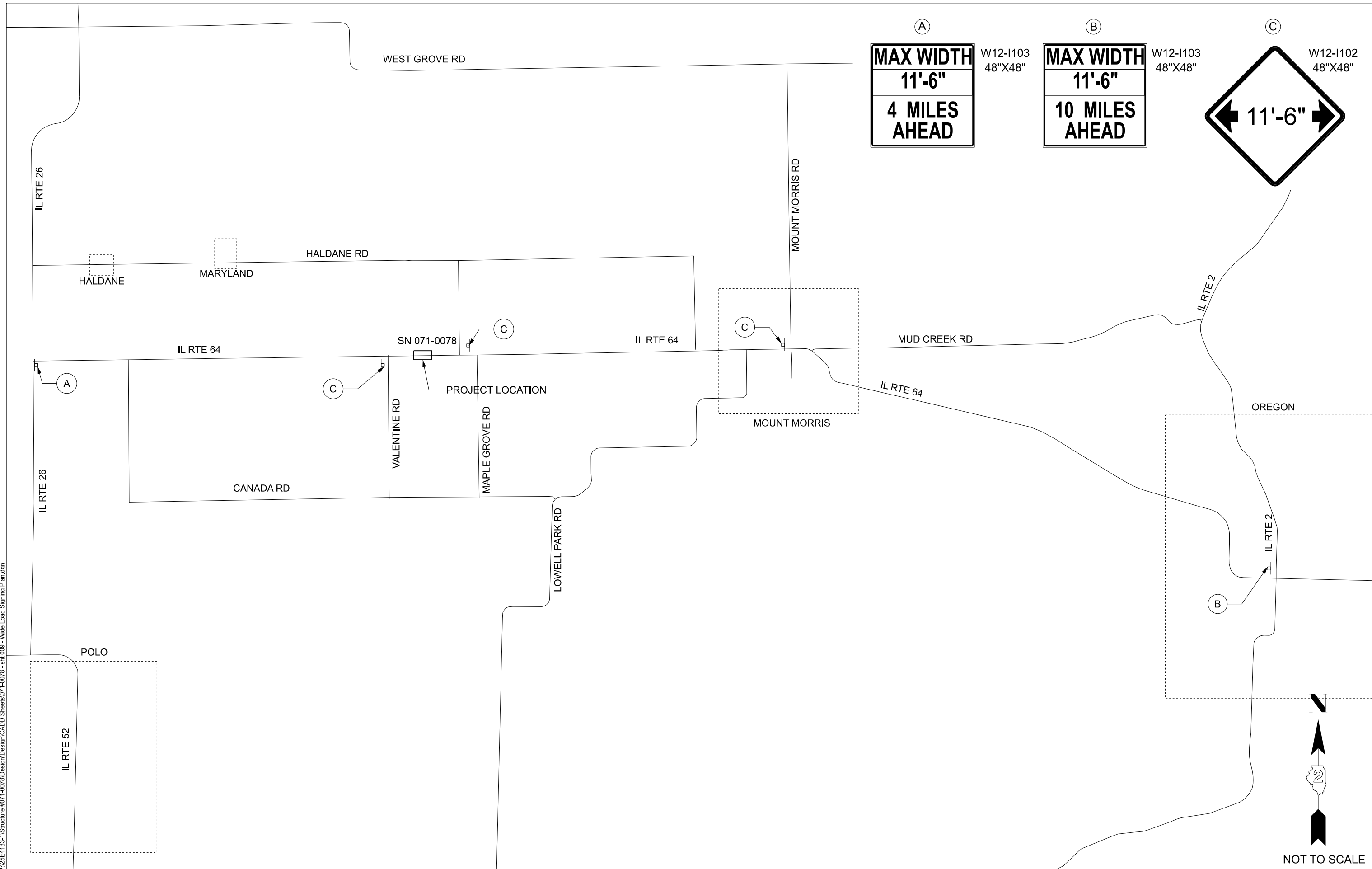
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	CHECKED GJS	REVISED -
PLOT SCALE =	DRAWN GJS	REVISED -
PLOT DATE =	CHECKED WJS	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC - TYPICAL & NOTES  
SN 071-0078 OVER PINE CREEK**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	(102BR-1)BRR	OGLE	30	8
CONTRACT NO. 64T47				
		ILLINOIS	FED. AID PROJECT	

MODEL: Unlited (Sheet)  
 FILE NAME: P:\26E4183-1\Structure #071-0078\Design\CADD Sheets\071-0078 - sht 009 - Wide Load Signing Plan.dgn



Ⓐ

**MAX WIDTH**  
**11'-6"**

---

**4 MILES AHEAD**

W12-I103  
48"X48"

Ⓑ

**MAX WIDTH**  
**11'-6"**

---

**10 MILES AHEAD**

W12-I103  
48"X48"

Ⓒ

**11'-6"**

W12-I102  
48"X48"

USER NAME = gsturjeon	DESIGNED - GJS	REVISED -
	DRAWN - GJS	REVISED -
	CHECKED - WJS	REVISED -
PLOT DATE = 3/17/2026	DATE -	REVISED -

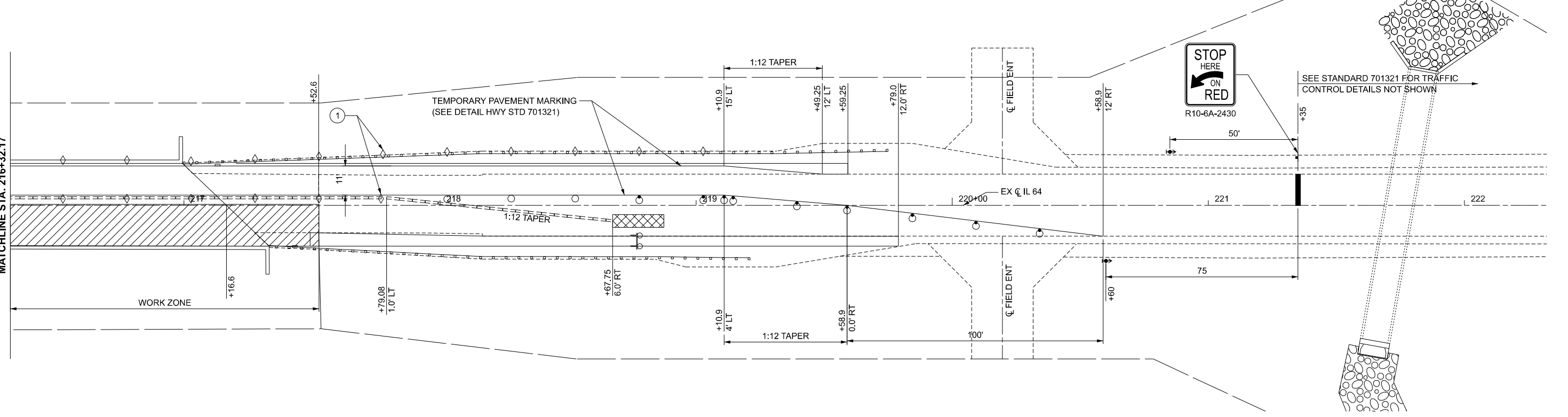
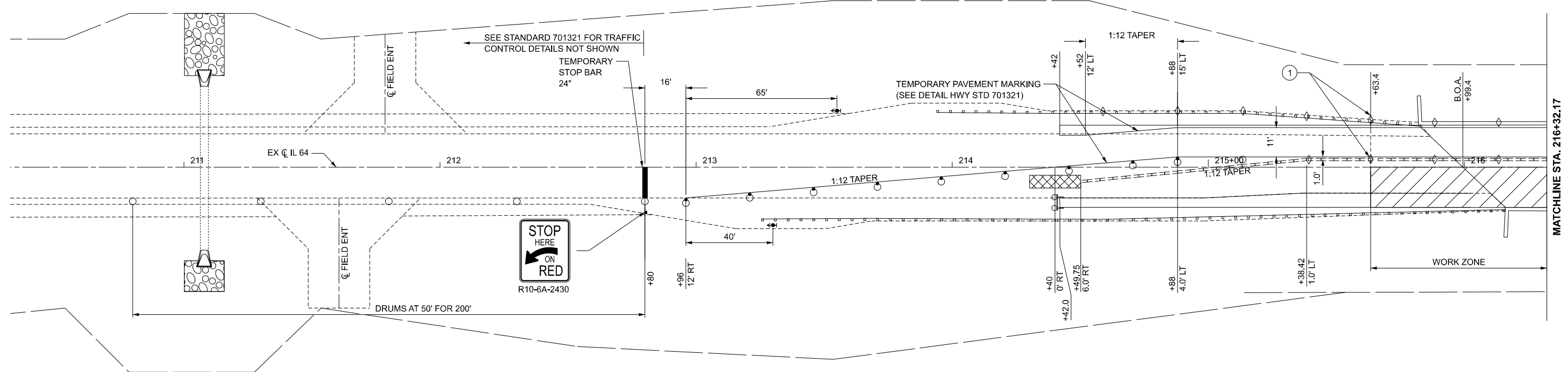
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**WIDE LOAD SIGNING PLAN**  
**SN 071-0078**











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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17A	(102BR-1)BRR	OGLE	30	9
CONTRACT NO. 64T47				
ILLINOIS FED. AID PROJECT				

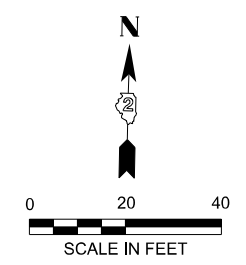
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**SYMBOLS**

-  WORK AREA
-  SIGN
-  TYPE III BARRICADE WITH FLASHING LIGHTS
-  TRAFFIC SIGNAL
-  IMPACT ATTENUATOR
-  TEMPORARY CONCRETE BARRIER
-  DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
-  DRUM
-  DOUBLE VERTICAL PANEL
-  CRYSTAL, BIDIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR

- ① GUARDRAIL/BARRIER WALL REFLECTORS AT 25' CENTERS. SEE STANDARD 704001 AND STANDARD 782006.
- ② VERTICAL PANELS AT 25' CENTERS THROUGHOUT LANE SHIFT WHERE GUARDRAIL IS NOT PRESENT.



USER NAME = gsturjeon	DESIGNED - GJS	REVISED -
	DRAWN - GJS	REVISED -
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PLOT DATE = 3/23/2026	DATE	REVISED -

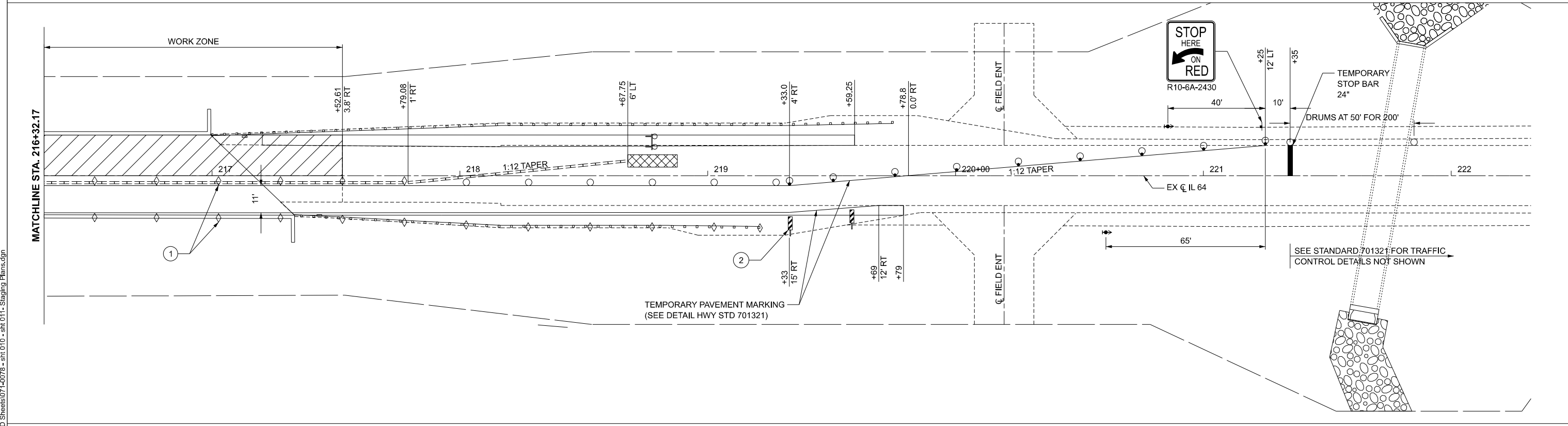
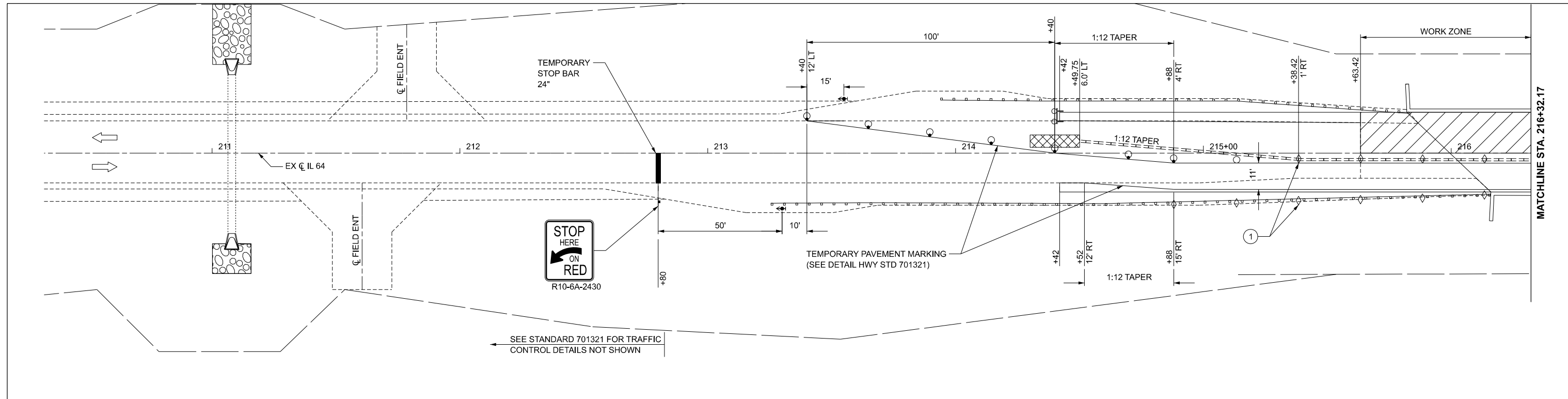
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC - STAGE 1 PLANS  
 SN 071-0078 OVER PINE CREEK**

SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17A	(102BR-1)BRR	OGLE	30	10
CONTRACT NO. 64T47				
		ILLINOIS	FED. AID PROJECT	

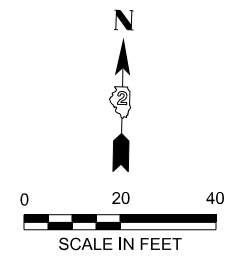
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**SYMBOLS**

- WORK AREA
- SIGN
- TYPE III BARRICADE WITH FLASHING LIGHTS
- TRAFFIC SIGNAL
- IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- DRUM
- DOUBLE VERTICAL PANEL
- CRYSTAL, BIDIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR

- ① GUARDRAIL/BARRIER WALL REFLECTORS AT 25' CENTERS. SEE STANDARD 704001 AND STANDARD 782006.
- ② VERTICAL PANELS AT 25' CENTERS THROUGHOUT LANE SHIFT WHERE GUARDRAIL IS NOT PRESENT.



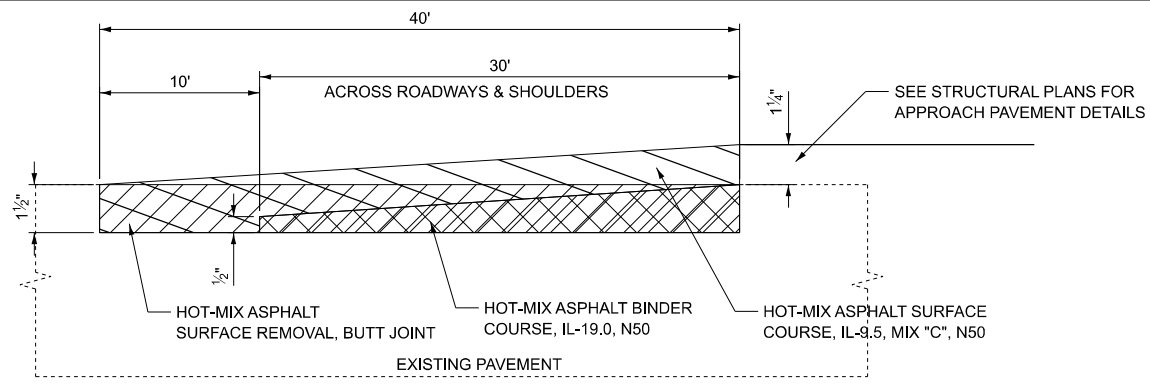
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PLOT DATE = 3/23/2026	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC - STAGE 2 PLANS  
 SN 071-0078 OVER PINE CREEK**

SCALE: 1"=20' SHEET 2 OF 2 SHEETS STA. TO STA.

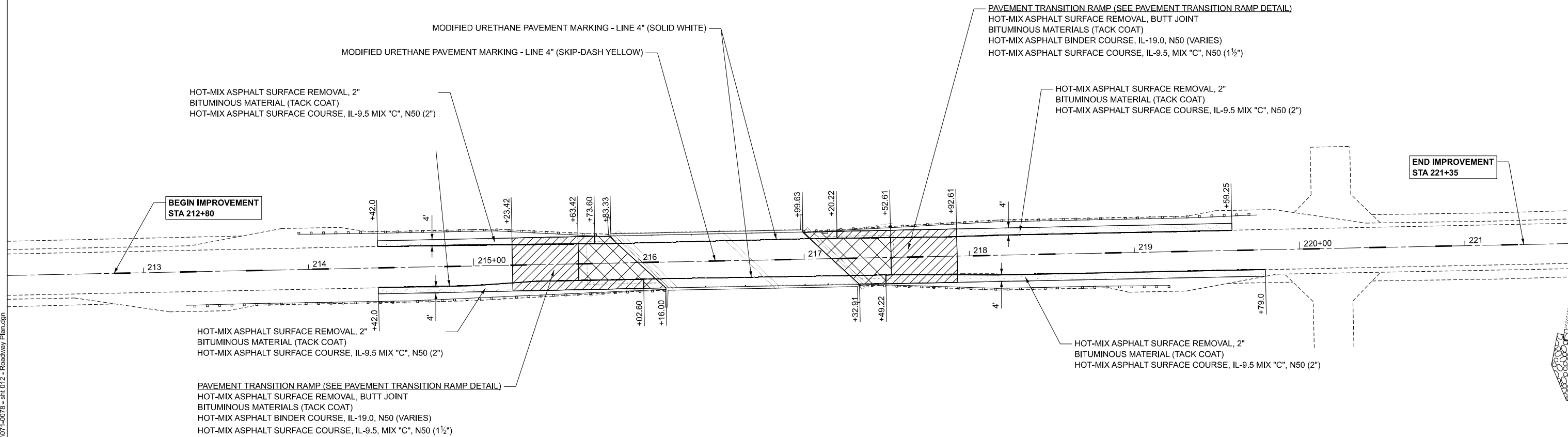
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17A	(102BR-1)BRR	OGLE	30	11
CONTRACT NO. 64T47				
ILLINOIS FED. AID PROJECT				



**PAVEMENT TRANSITION RAMP DETAIL**

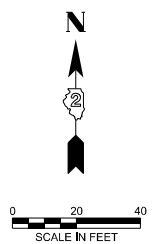
STA 215+23.42 TO STA 215+73.60  
STA 217+20.22 TO STA 217+92.61

**NOTE:**  
PRE-STAGE - SHOULDER REPAVING  
POST STAGE - PAVEMENT TRANSITION RAMP  
- PERMENT PAVEMENT MARKING



**LEGEND**

- BRIDGE APPROACH PAVEMENT
- PAVEMENT TRANSITION RAMP
- SHOULDERS



MODEL: SN 0078 (Sheet)  
FILE NAME: P:\26E4183-1\Structure #071-0078\Design\CADD Sheets\071-0078 - sht 012 - Roadway Plan.dgn

USER NAME = gsturjeon	DESIGNED - MBH	REVISED -
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PLOT DATE = 3/23/2026	DATE -	REVISED -

**STATE OF ILLINOIS  
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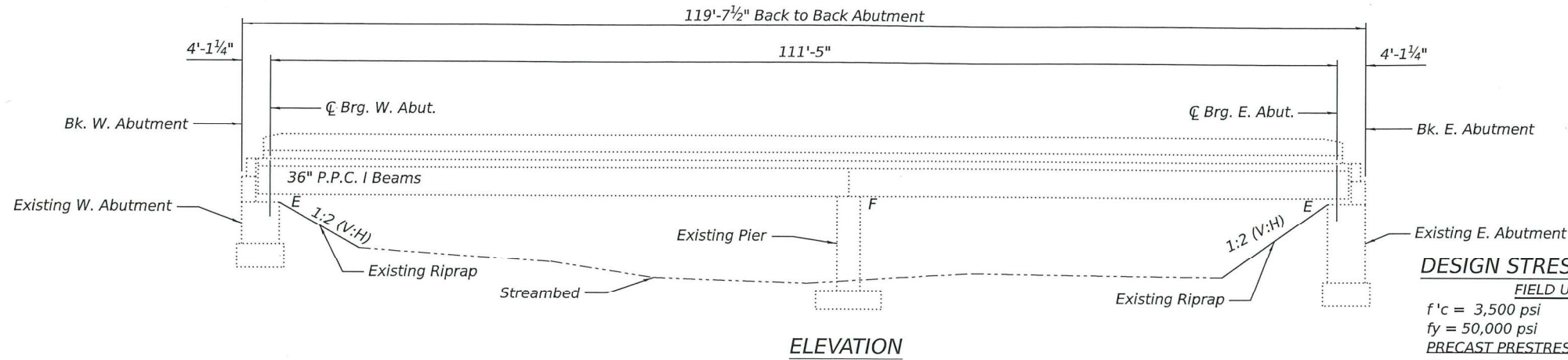
**ROADWAY PLAN  
SN 071-0078 OVER PINE CREEK**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17A	(102BR-1)BRR	OGLE	30	12
CONTRACT NO. 64T47				
ILLINOIS FED. AID PROJECT				

Existing Structure SN 071-0078 is a two span continuous PPC I-beam structure with a reinforced concrete deck and spread footing abutments. The back to back length of the bridge is 119'-7½". The out to out width of the bridge is 35'-2".

Traffic to be maintained during Staged Construction



**DESIGN STRESSES (EXIST.)**

**FIELD UNITS**  
 f'c = 3,500 psi  
 fy = 50,000 psi  
**PRECAST PRESTRESSED UNITS (Existing)**  
 f'c = 6,000 psi  
 f'ci = 5,000 psi  
 f's = 60,000 psi (1/2" Ø Strands)  
 f'si = 50,000 psi (1/2" Ø Strands)

**DESIGN SPECIFICATIONS (EXIST.)**

1989 AASHTO, Standard Specification for Highway Bridges

**INDEX OF SHEETS**

1. General Plan and Elevation
2. General Data & Stage Construction Details
3. Temporary Concrete Barrier
4. Deck Repair
5. Joint Removal
6. Joint Replacement Detail
7. Bar Splicer Detail

**SCOPE OF WORK**

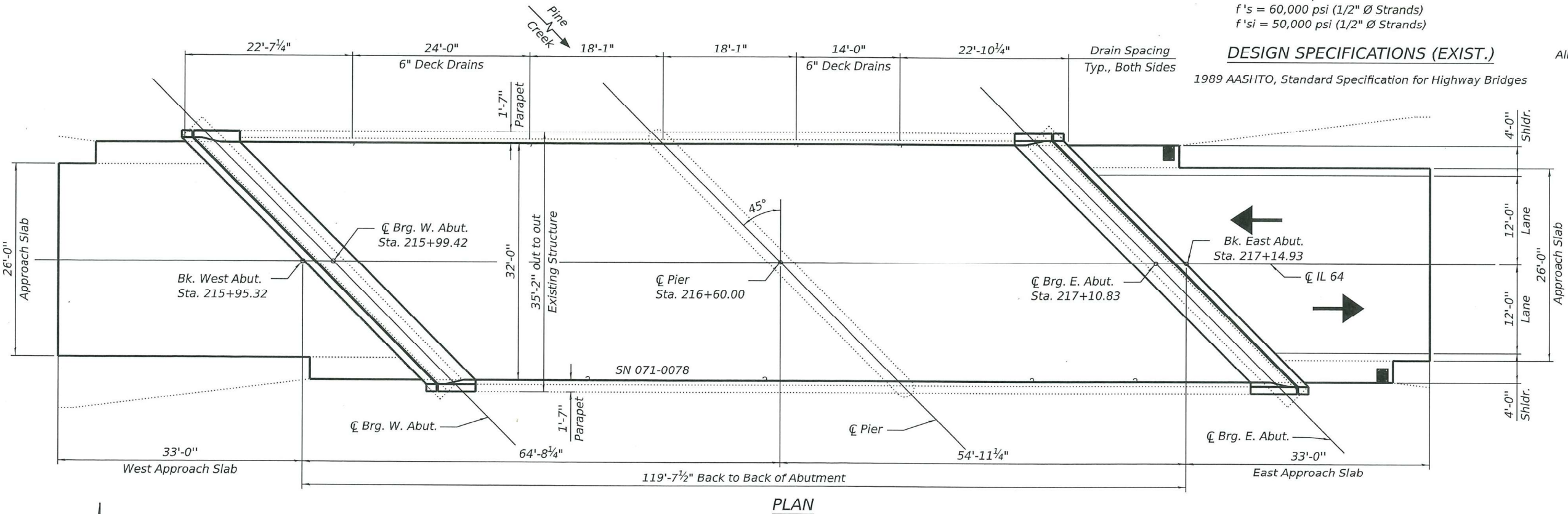
1. Perform ¾" bridge deck scarification
2. Fill void beside approach slab.
3. Remove and Replace expansion joints at abutments.
4. Perform partial/full deck repairs
5. Clean and reseal parapet relief joints.
6. Place 2¼" latex overlay on bridge deck/approach slabs.
7. Perform ¼" diamond grinding on deck overlay.
8. Perform bridge deck grooving (longitudinal) on deck overlay.
9. Apply protective coat to deck and parapets.

**DESIGN STRESSES (NEW CONST.)**

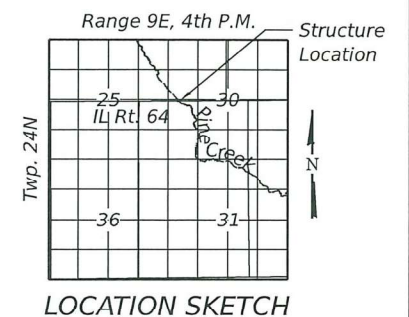
**FIELD UNITS**  
 f'c = 4,000 psi (Superstructure)  
 f'c = 3,500 psi (Substructure)  
 fy = 60,000 psi (Reinforcement)  
 fy = 50,000 psi (M270 Grade 50)

**LOADING HS20-44**

Allow 25 lb/sq. ft. for future wearing surface.



Up to ¼ inch to be ground off the bridge deck and the bridge approach slabs. The Profile Grade shows the final grade after grinding.



**GENERAL PLAN AND ELEVATION**  
**IL RT. 64 OVER PINE CREEK**  
**FAP RT. 17A SECTION (102BR-1)BRR**  
**OGLE COUNTY**  
**STATION 216+60.00**  
**STRUCTURE NO. 071-0078**

MODEL: Sheet 1  
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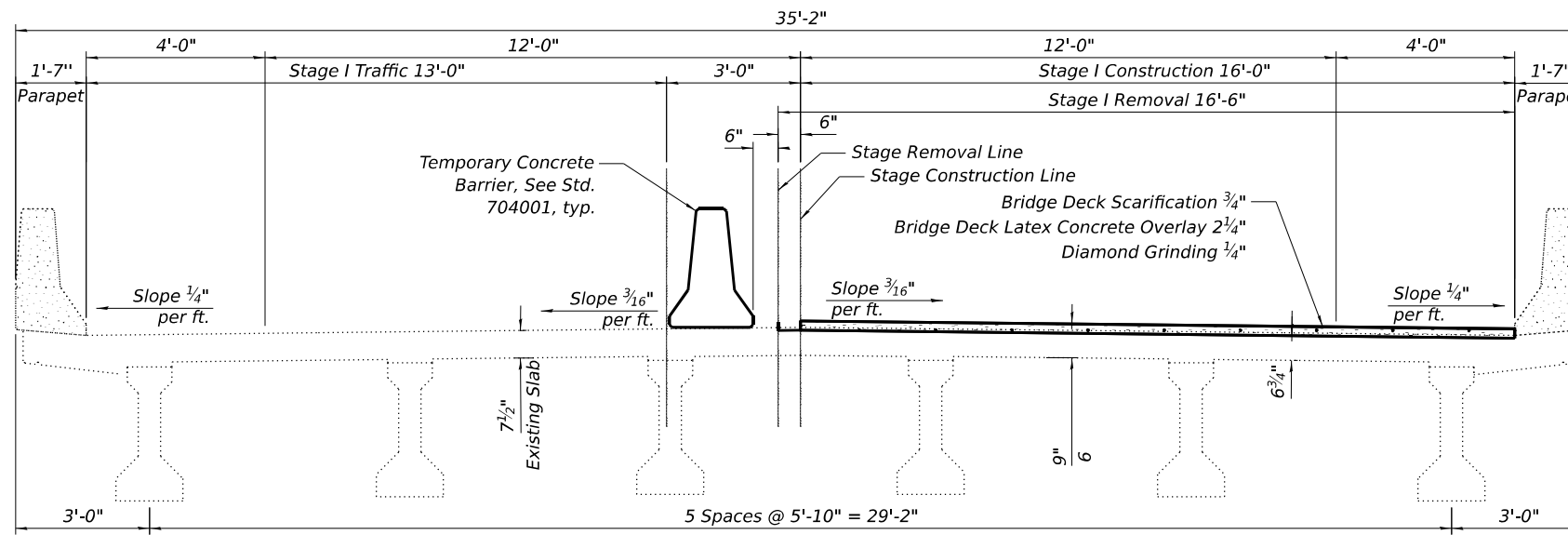


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PLOT DATE =	CHECKED	REVISED -

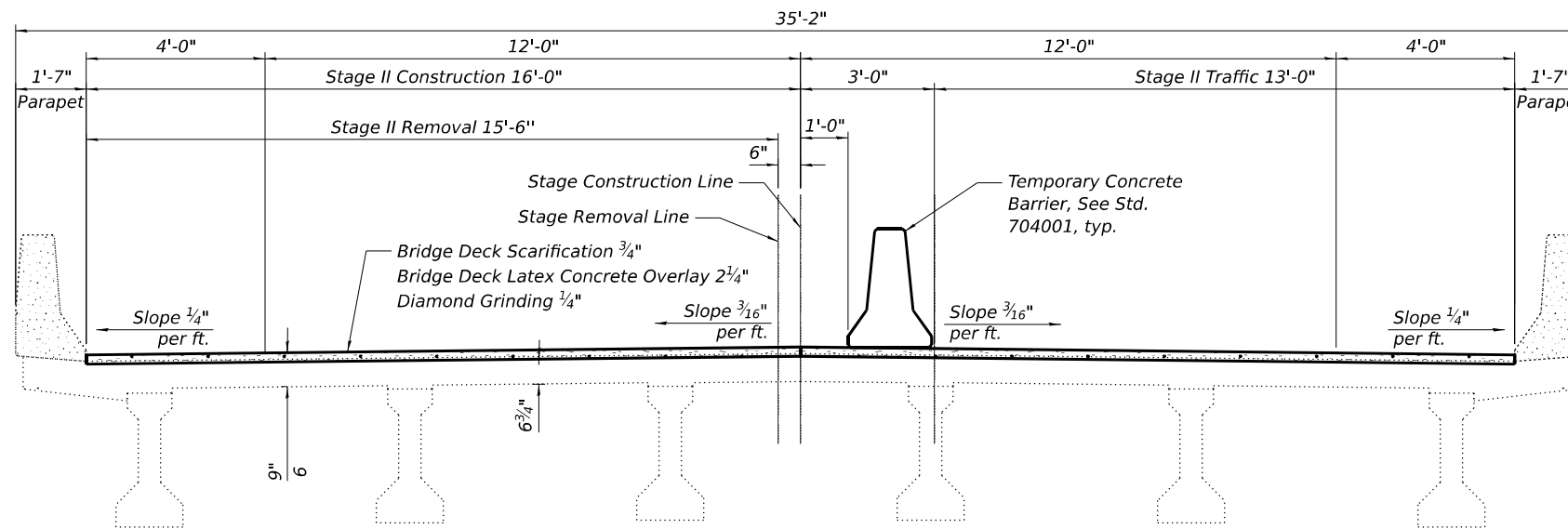
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**BRIDGE PLAN AND ELEVATION**  
**SN 071-0078 OVER PINE CREEK**

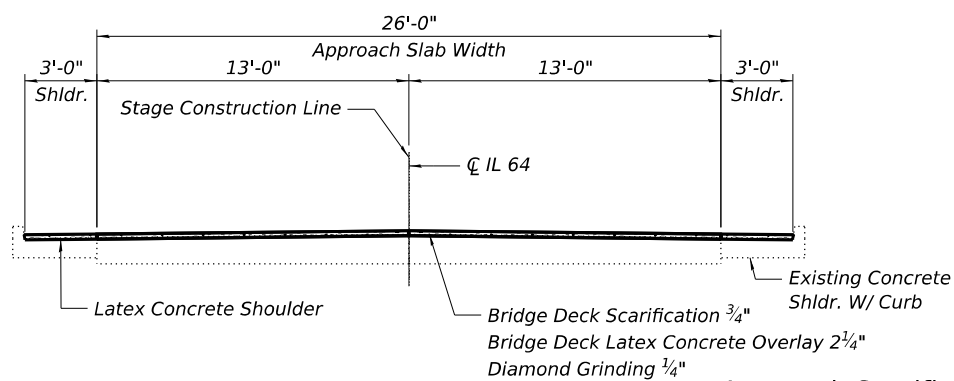
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CONTRACT NO. 64T47				
ILLINOIS FED. AID PROJECT				



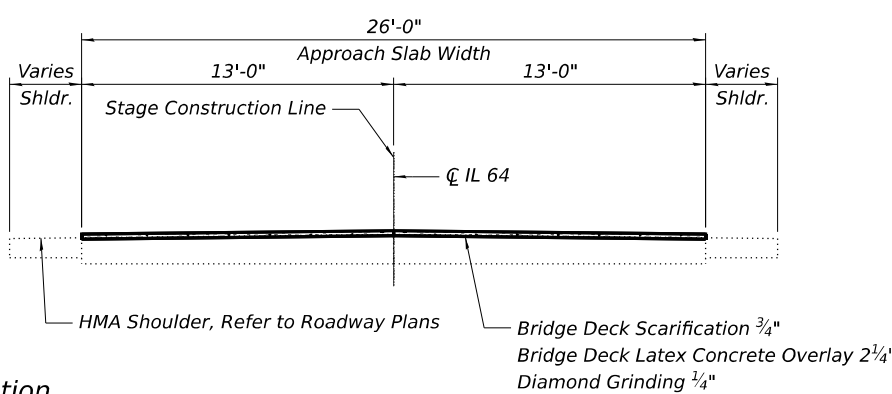
**STAGE I CONSTRUCTION**  
(Looking East)



**STAGE II CONSTRUCTION**  
(Looking East)



**Approach Scarification**  
East and West Approach similar



**GENERAL NOTES**

Reinforcement bars designated (E) shall be epoxy coated.

Plan dimensions and details relative to the existing structure have been taken from existing plans and 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.

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 at the contractor's expense.

The minimum thickness of the concrete overlay shall be 2 1/4" and varies as required to adjust for the existing profile grade beam chamber

The Contractor shall use extreme care during concrete removal so as to not damage the PPC I-Beam.

Joint opening shall be adjusted according to Article 520.04 of the Standard Specifications when the joint concrete is poured at an ambient temperature other than 50°F.

Areas of repairs shown are estimated. The Engineer shall show actual locations and size of repairs on As-built Plans.

Protective coat shall be applied to the concrete at the proposed joint replacement. It shall also be applied to the top and inside vertical faces of new parapet.

The Contractor shall exercise care during removal of existing joints to ensure that the deck slab, beams, girders, and diaphragms integrity will not be detrimentally impacted. The Contractor shall repair any damage(s) to the deck slab, beams, girders, and diaphragms caused by their operation as directed by the Engineer at no additional cost to the Department.

Stage construction shall be utilized to maintain traffic during construction.

All structural steel shall conform to AASHTO classification M-270 Gr. 36, unless otherwise noted

**TOTAL BILL OF MATERIAL**

	Unit	SUPER	SUB	Total
Concrete Removal	Cu. Yd.	33.2		33.2
Concrete Superstructure	Cu. Yd.	35.2		35.2
Protective Coat	Sq. Yd.	62		62
Reinforcement Bars, Epoxy Coated	lbs	4410		4410
Bar Splicers	Each	36		36
Preformed Joint Strip Seal	Ft.	94		94
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	2		2
Bridge Deck Scarification, 3/4"	Sq. Yd.	581		581
Bridge Deck Latex Concrete Overlay, 2 1/4"	Sq. Yd.	581		581
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	3		3
Inlets to be Adjusted	Each	2		2
Approach Slab Repair (Partial)	Sq. Yd.	0.5		0.5
Diamond Grinding (Bridge Section)	Sq. Yd.	570		570
Joint Repair	Each	14		14
Polymer Concrete	Cu. Ft.	3		3
Precast Prestressed Concrete I-Beam Repair	Sq. Ft.	6		6
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	298		298

MODEL: Sheet 2  
FILE NAME: P:\5E4183-1\Structure #071-0078\Design\Design\CADD\_Sheets\Structural\26417-sh01-4-General Data & Stage Construction.dgn

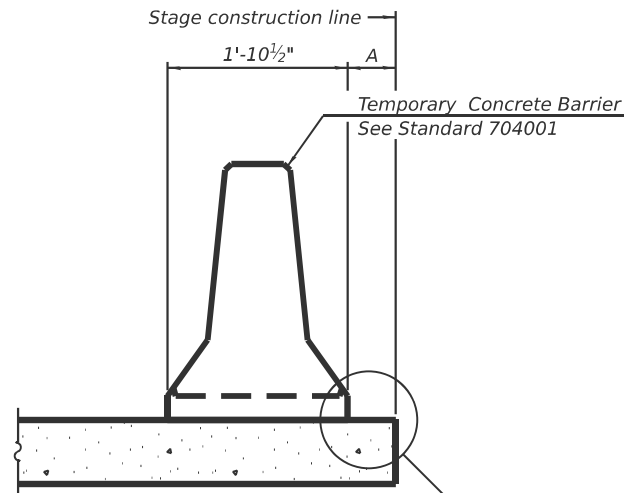
**BENTON ENGINEERING**  
ILLINOIS DESIGN PROFESSIONAL ENGINEERS  
JACKSONVILLE, IL • MACON, IL • TAYLORVILLE, IL • SPRINGFIELD, IL • TULLAH, MO

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

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

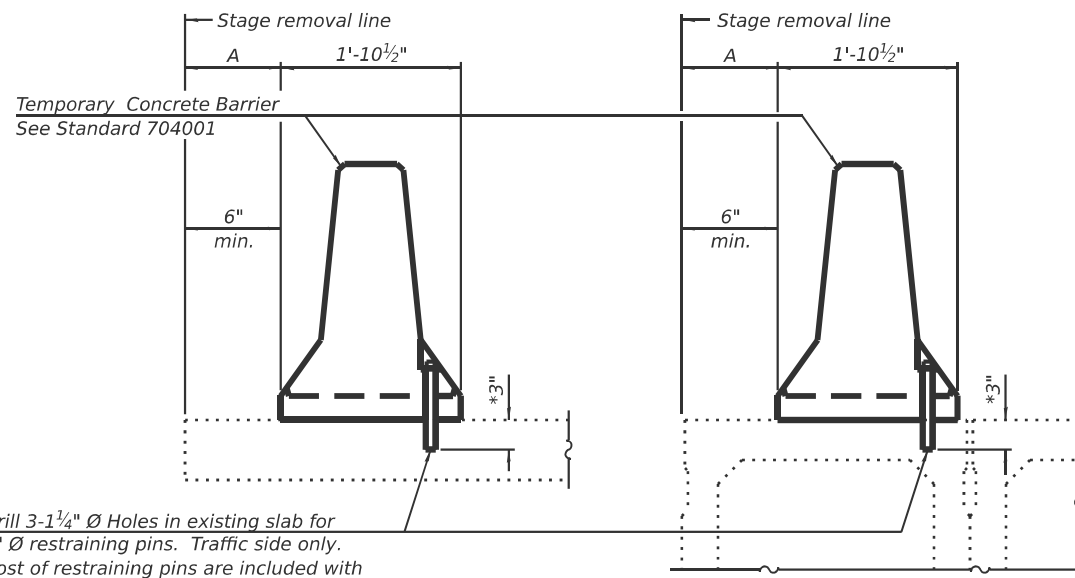
**GENERAL DATA & STAGE CONSTRUCTION DETAILS**  
**SN 071-0078 OVER PINE CREEK**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17A	(102BR-1)BRR	OGLE	30	14
CONTRACT NO. 64T47				
ILLINOIS FED. AID PROJECT				



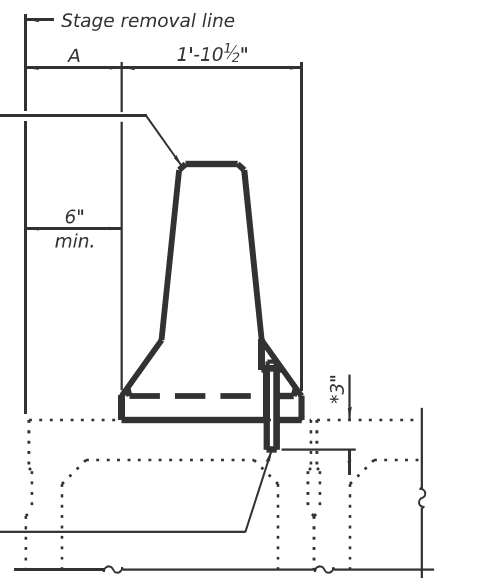
When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

**NEW SLAB OR NEW DECK BEAM**



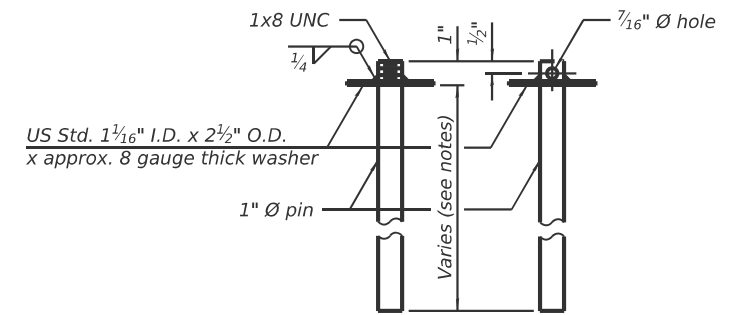
Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

**EXISTING SLAB**



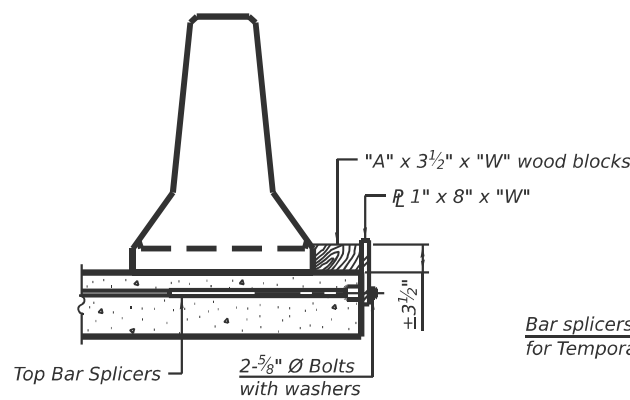
\* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

**EXISTING DECK BEAM**

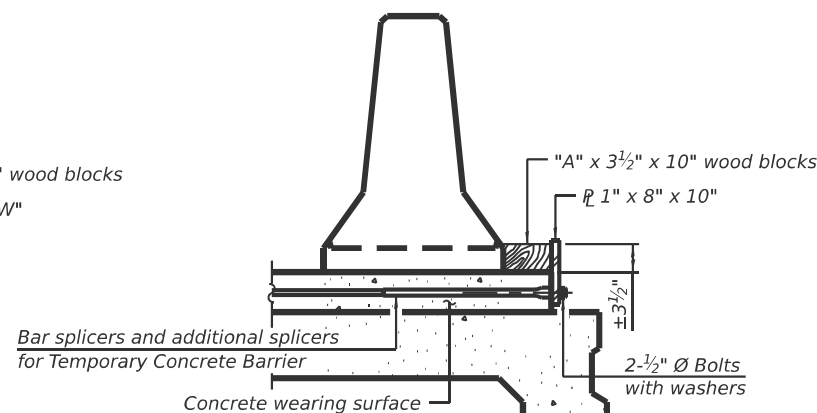


**RESTRAINING PIN**

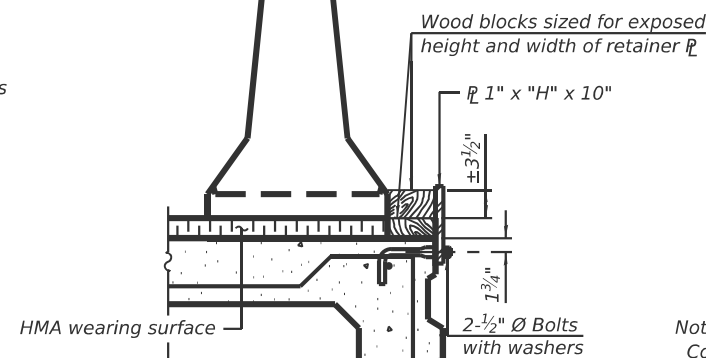
**SECTIONS THRU SLAB OR DECK BEAM**



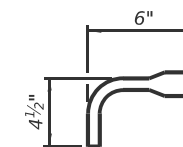
**DETAIL I**



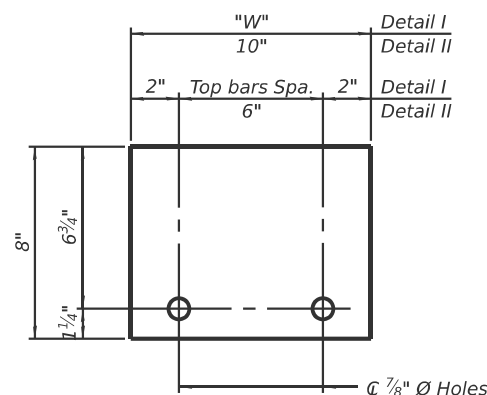
**DETAIL II**



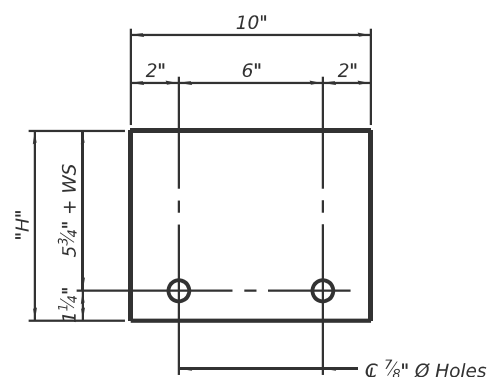
**DETAIL III**



**BAR SPLICER FOR #4 BAR - DETAIL III**



**STEEL RETAINER 1" x 8" x "W"**  
(Detail I and II)



**STEEL RETAINER 1" x "H" x 10"**  
(Detail III)

**Notes:**  
 Cost of retainer assembly is included with Temporary Concrete Barrier.  
 A retainer assembly shall be located at the approximate center of each temporary concrete barrier.  
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.  
 When the 'A' dimension is less than 1 1/2", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate.  
 For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

**RAILING CRITERIA**

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27 5-15-2023

MODEL: Sheet 3  
FILE NAME: P:\2024\183-1\Structure\#071-0078\Design\Drawings\1015-Temporary Concrete Barrier.dwg



USER NAME =	DESIGNED =	REVISIONS =
CHECKED =	CHECKED =	REVISIONS =
PLOT SCALE =	DRAWN = JTS	REVISIONS =
PLOT DATE =	CHECKED =	REVISIONS =

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

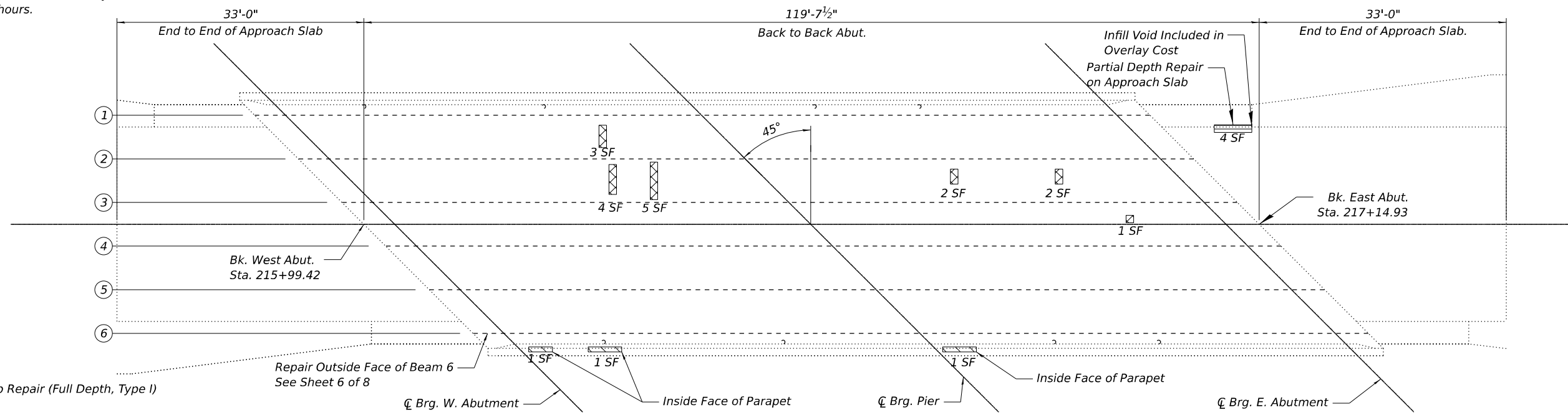
**TEMPORARY CONCRETE BARRIER  
SN 071-0078 OVER PINE CREEK**

SHEET 3 OF 8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17A	(102BR-1)BRR	OGLE	30	15
CONTRACT NO. 64T47			ILLINOIS FED. AID PROJECT	

Notes:  
The engineer shall show actual location and size of deck repairs on As-Built Plans.

If Full Depth Patches are discovered, they shall be covered with steel plates during non work hours.



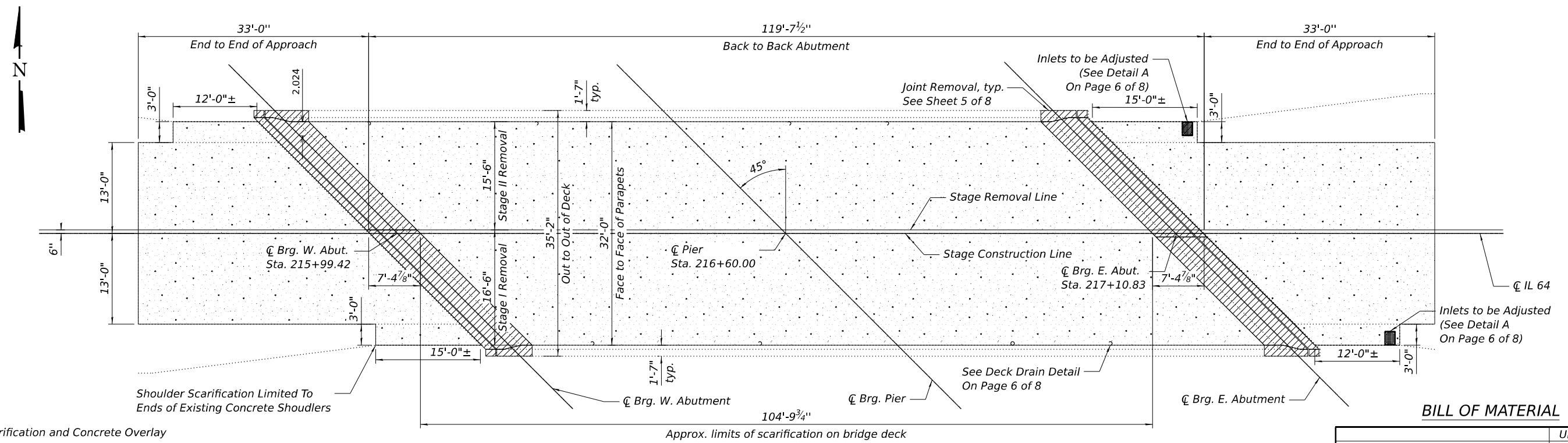
- = Deck Slab Repair (Full Depth, Type I)
- = Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)
- = Approach Slab Repair (Partial)

Identified patching locations are estimated from a deck survey performed on 11/17/2025. The patching survey is included for information only. The engineer shall layout actual patch location in the field.

**DECK REPAIR PLAN**

**BILL OF MATERIAL**

	Unit	Total
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	2
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	3
Approach Slab Repair (Partial)	Sq. Yd.	0.5



- = Scarification and Concrete Overlay
- = Joint Removal and Replacement

**SCARIFICATION PLAN**

**BILL OF MATERIAL**

	Unit	Total
Bridge Deck Scarification, 3/4"	Sq. Yd.	581
Bridge Deck Latex Conc. Overlay, 2 1/4"	Sq. Yd.	581
Inlets to be Adjusted (See Detail A)	Each	2
Diamond Grinding (Bridge Section)	Sq. Yd.	570

MODEL: Sheet 4  
FILE NAME: P:\25E4183-1\Structure #071-0078\Design\CADD\_Sheets\Structural\26417-sh1016-Deck Repair.dgn



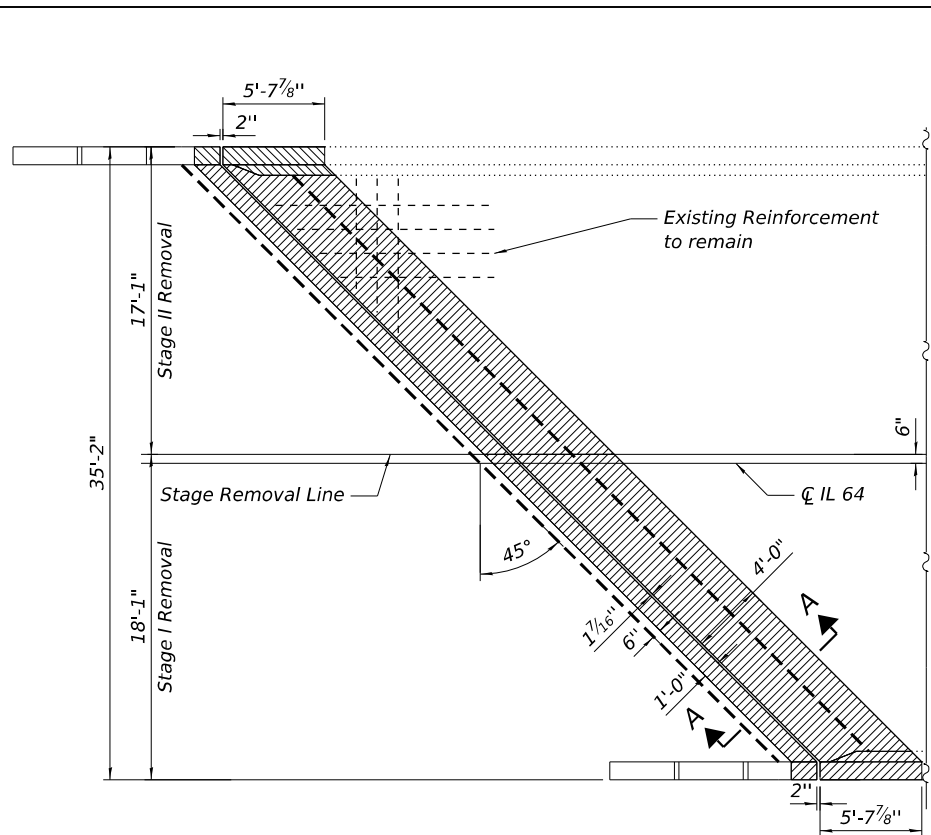
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CHECKED	REVISED -	
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PLOT DATE =	CHECKED	REVISED -

**STATE OF ILLINOIS  
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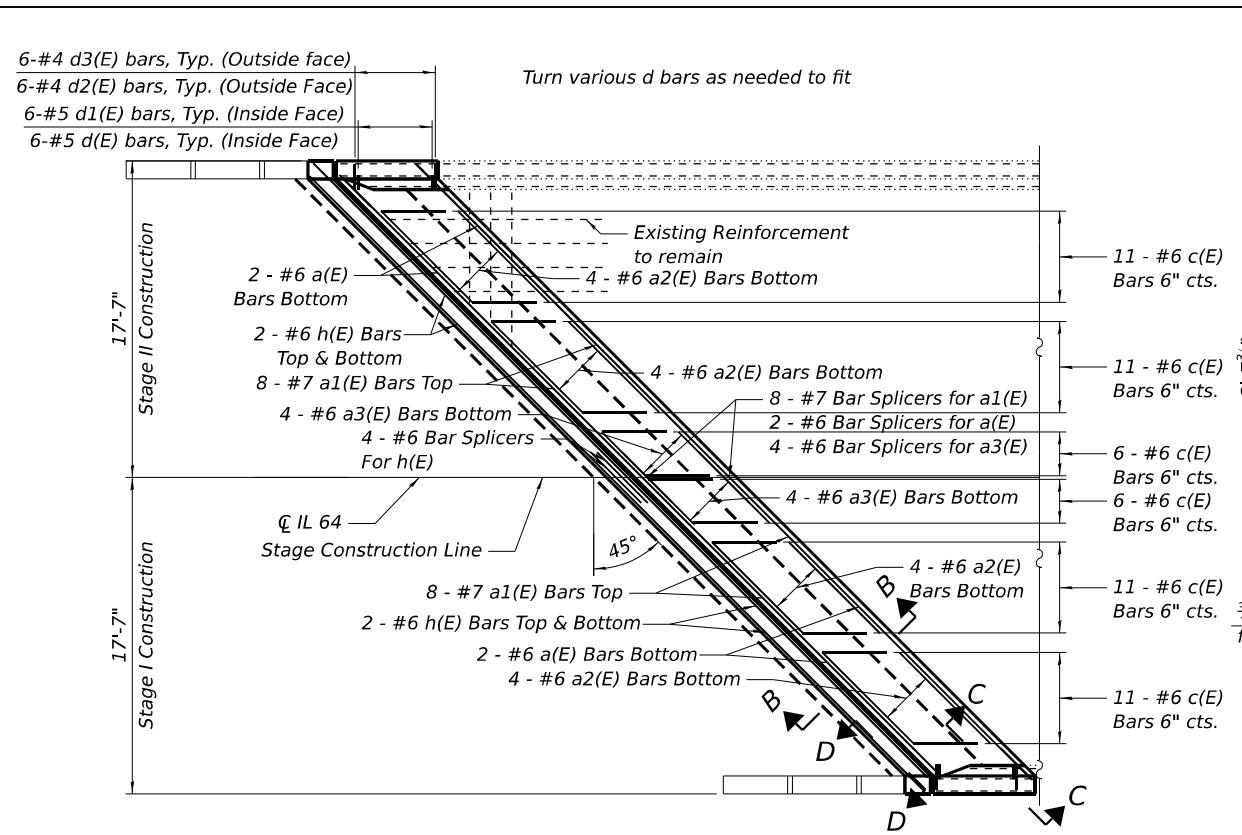
**WEARING SURFACE PLAN  
SN 071-0078 OVER PINE CREEK**

SHEET 4 OF 8 SHEETS

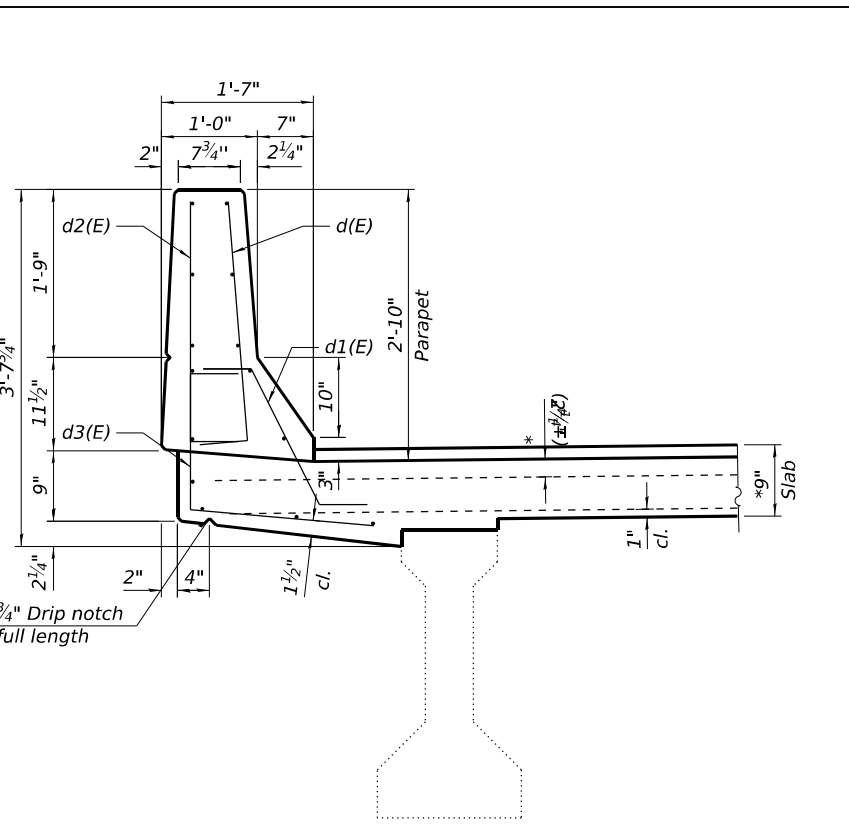
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17A	(102BR-1)BRR	OGLE	30	16
CONTRACT NO. 64T47				
ILLINOIS FED. AID PROJECT				



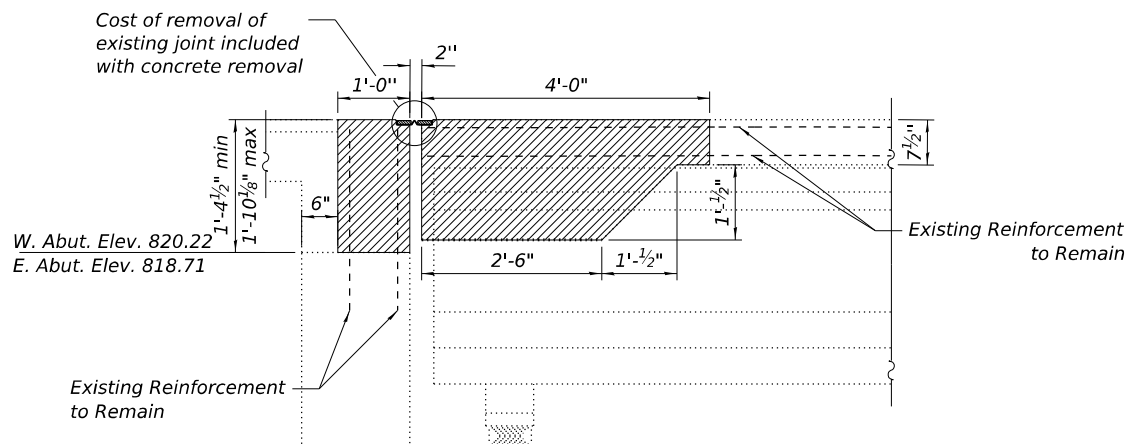
**WEST ABUTMENT JOINT CONCRETE REMOVAL**  
(East Abutment Similar)



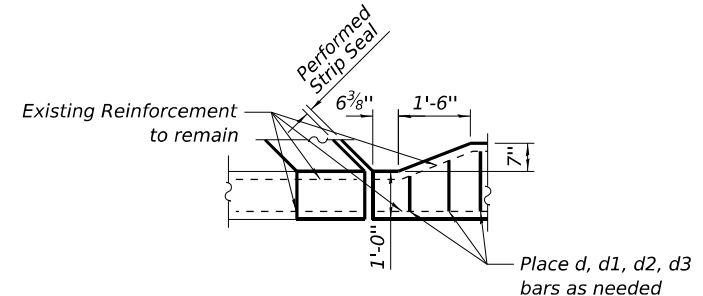
**WEST ABUTMENT JOINT CONCRETE REPLACEMENT**  
(East Abutment Similar)



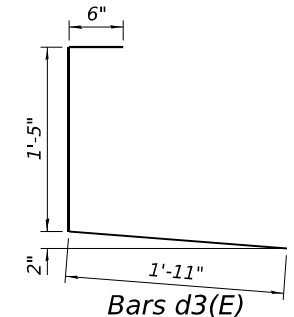
**Section C-C**



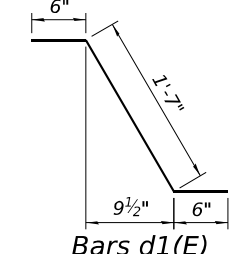
**Section A-A**



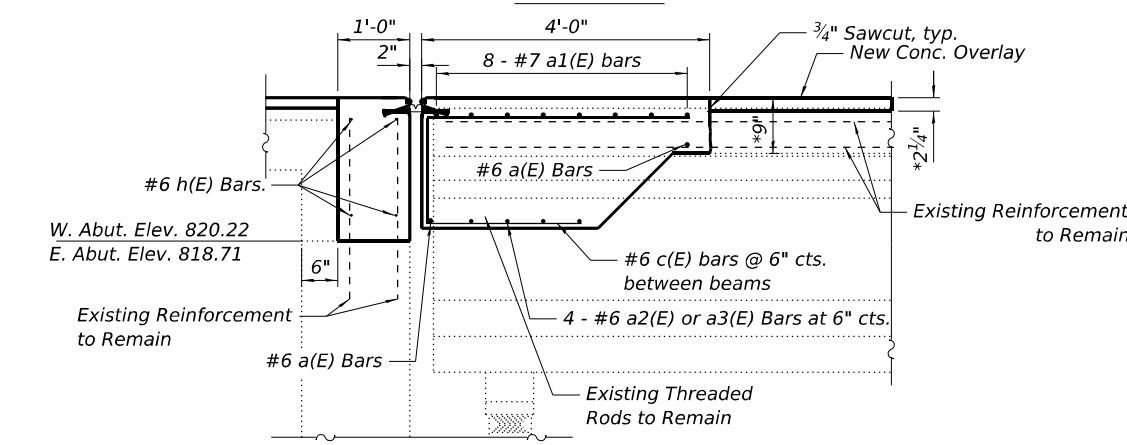
**End Parapet Detail**



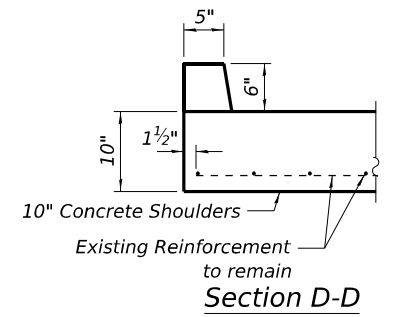
**Bars d3(E)**



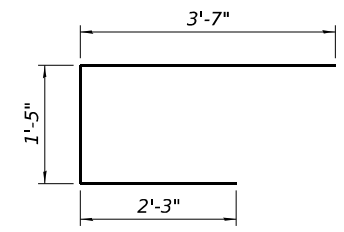
**Bars d1(E)**



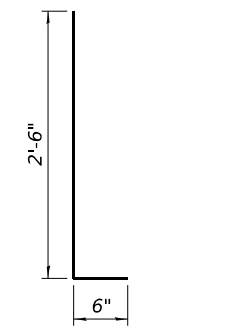
**Section B-B**



**Section D-D**



**Bars c(E)**



**Bars d(E) & d2(E)**

**Required Lap Length**

#6 Bar = 3'-6"  
\* Prior to 1/4" diamond grinding

Existing reinforcement shall be cleaned, straightened, and incorporated into the new construction.

The removal cost of the existing joints and all components are included in the cost of Concrete Removal.

Areas of Joint Removal and Replacement are to Receive 1/4" Diamond Grinding

Turn various d bars as needed to fit

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	8	#6	24'-7"	—
a1(E)	32	#7	24'-7"	—
a2(E)	32	#6	7'-2"	—
a3(E)	16	#6	3'-6"	—
c(E)	112	#6	7'-3"	U
d(E)	24	#5	3'-0"	U
d1(E)	24	#5	2'-7"	U
d2(E)	24	#4	3'-0"	U
d3(E)	24	#4	3'-10"	U
h(E)	16	#6	24'-7"	—
Reinforcement Bars, Epoxy Coated			Lbs.	4410
Concrete Superstructure			Cu. Yds.	35.2
Concrete Removal			Cu. Yds.	33.2
Bar Splicers			Qty.	36

Bars indicated thus 1 x 2-#4 etc. indicates 1 line of bars with 2 lengths per line.

MODEL: Sheet 5  
FILE NAME: P:\2024\183-1\Structure\071-0078\Design\CAD\Drawings\071-0078-17-Joint Removal & Replacement.dwg

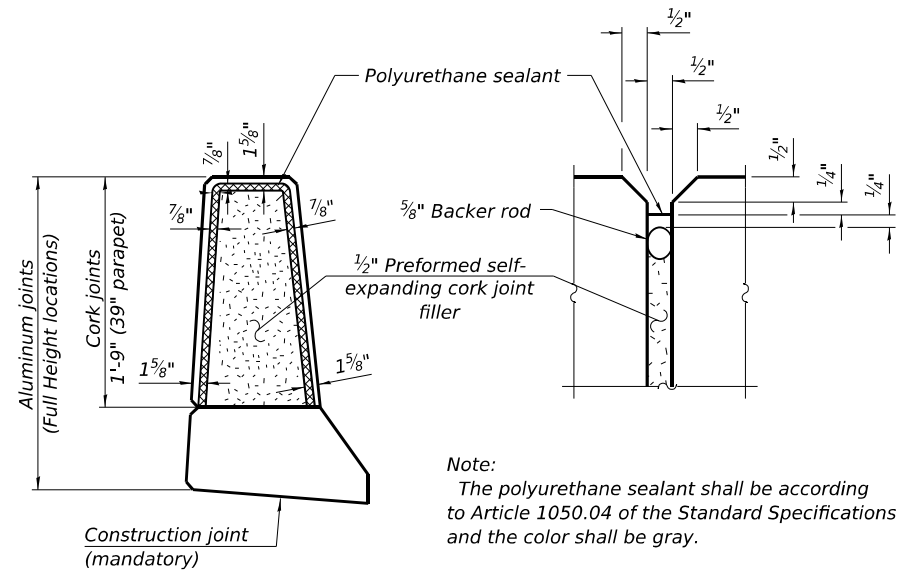
**BENTON ENGINEERING**  
JACKSONVILLE, FLORIDA  
MEMPHIS, TENNESSEE  
INDIANAPOLIS, INDIANA

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

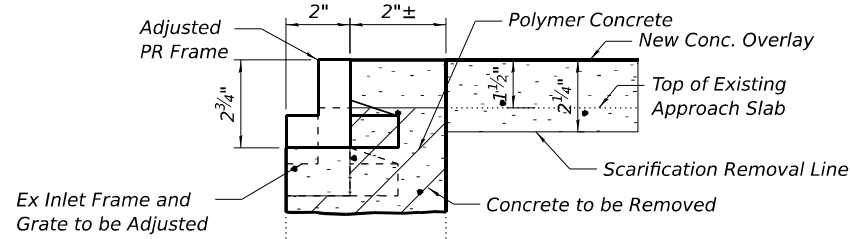
**JOINT REMOVAL AND REPLACEMENT  
SN 071-0078 OVER PINE CREEK**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17A	(102BR-1)BRR	OGLE	30	17
CONTRACT NO. 64T47				
ILLINOIS FED. AID PROJECT				



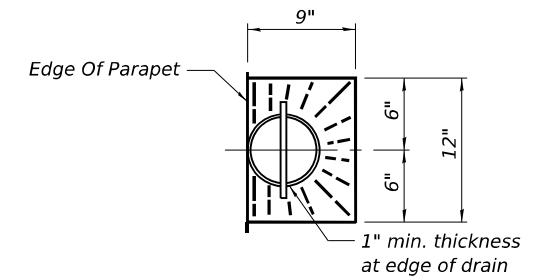
Note:  
The polyurethane sealant shall be according to Article 1050.04 of the Standard Specifications and the color shall be gray.

**PARAPET JOINT DETAILS**

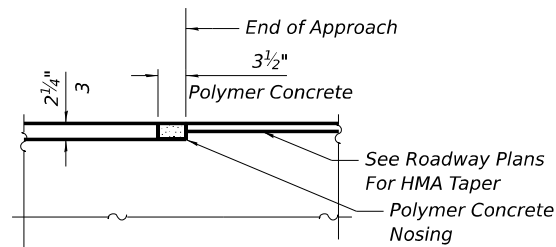


Note:  
Raising Grate is to be included in Inlets to be Adjusted

**Detail A**

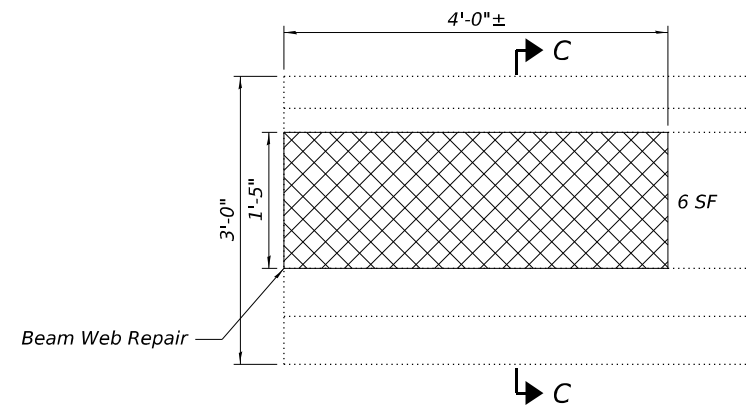


**Deck Drain Detail**

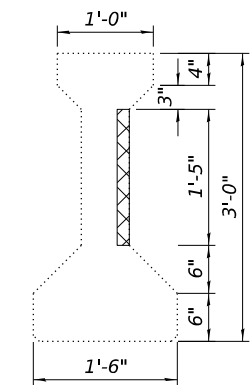


**SECTION AT END OF APPROACH**

Note:  
Polymer Concrete nosing is to be included in Polymer Concrete



**ELEVATION**  
(West End of Beam 6)



**SECTION C-C**

**BILL OF MATERIAL**

	Unit	Total
Polymer Concrete	Cu. Ft.	3
Inlets to be Adjusted	Each	2
Precast Prestressed Concrete I-Beam Repair	Sq. Ft.	6

MODEL: Sheet 6  
FILE NAME: P:\2025\183-1\Structure\#071-0078\Design\CADD\_Sheets\Structural\26417-sh018-Details.dgn

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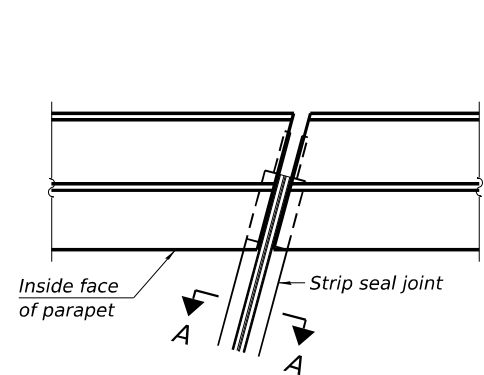
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

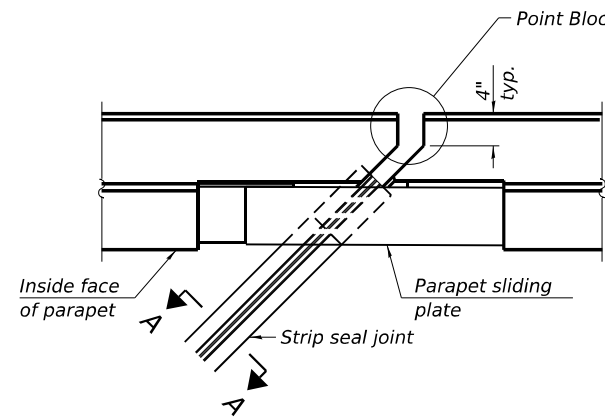
**MISCELLANEOUS DETAILS**  
**SN 071-0078 OVER PINE CREEK**

SHEET 6 OF 8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17A	(102BR-1)BRR	OGLE	30	18
CONTRACT NO. 64T47				
ILLINOIS FED. AID PROJECT				

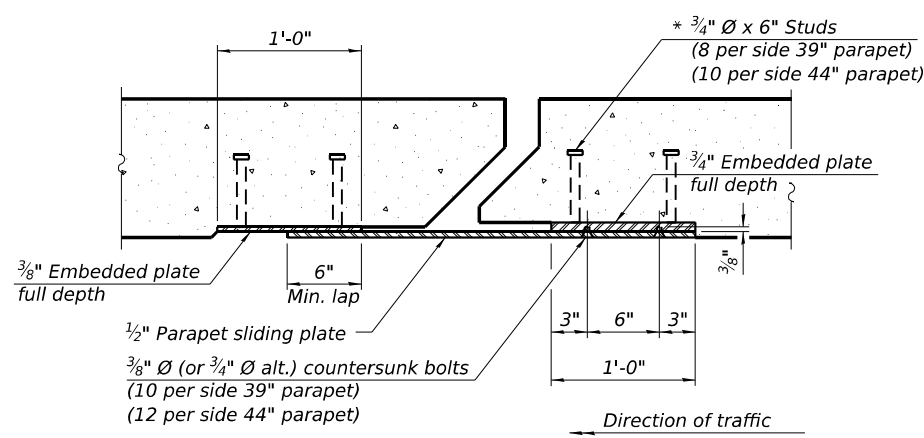


FOR SKEWS ≤ 30°



FOR SKEWS > 30°

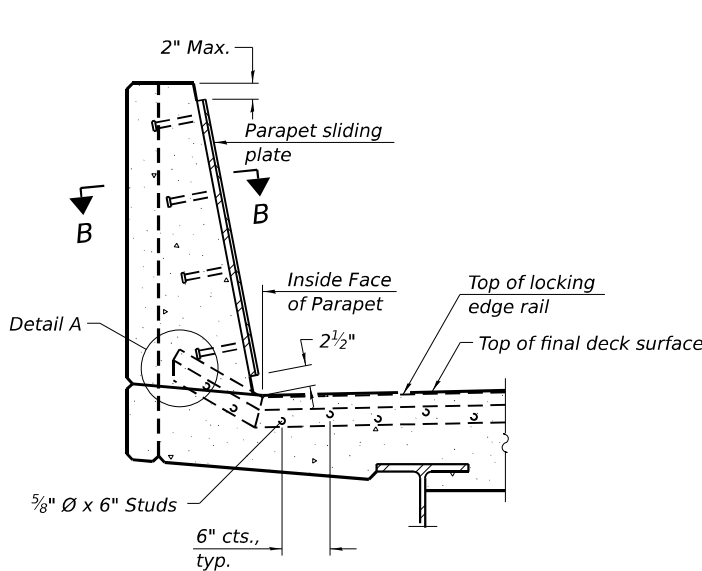
**PLAN AT PARAPET**



**SECTION B-B**

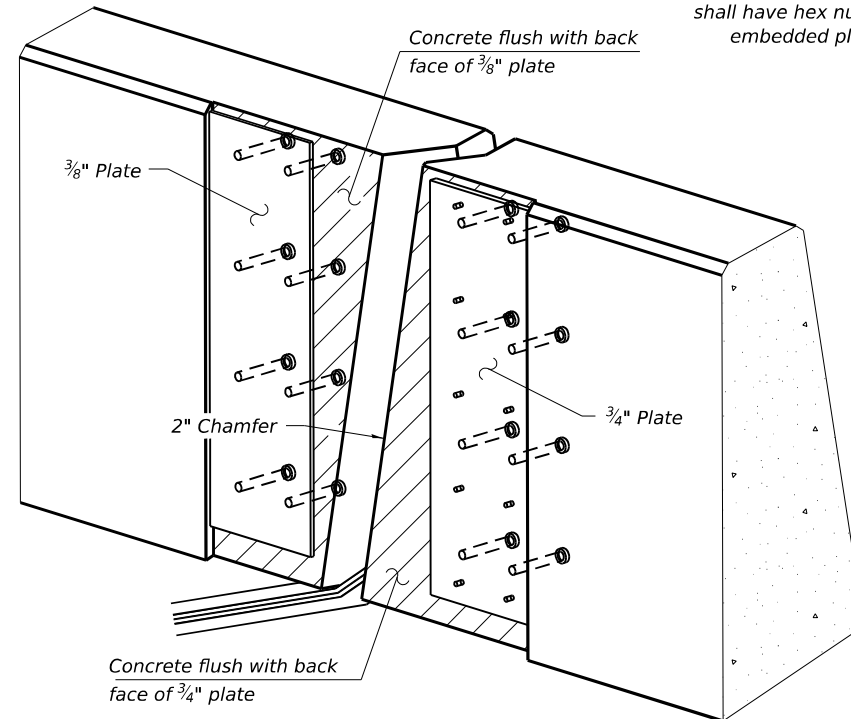
(3/4" Ø countersunk bolts extending into concrete shall have hex nuts tack welded to the back of the embedded plates with end caps provided.)

**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.

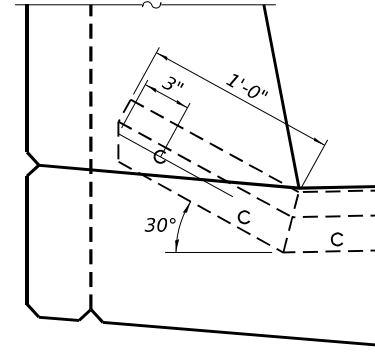


**SECTION AT PARAPET**

(Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)

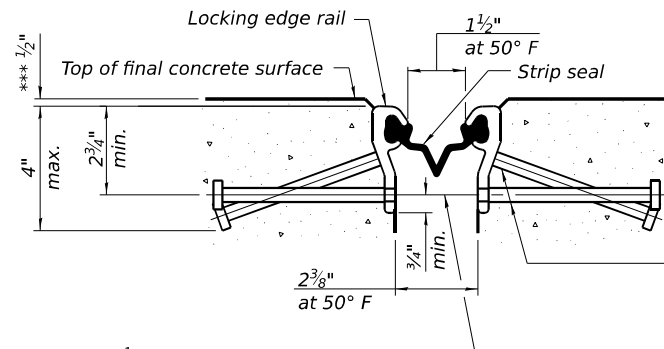


**TRIMETRIC VIEW**  
 (Showing embedded plates only)



**DETAIL A**

(Kick-up at parapet locations shown. See sheet of for kick-up at curb locations.)



**SHOWING ROLLED RAIL JOINT**

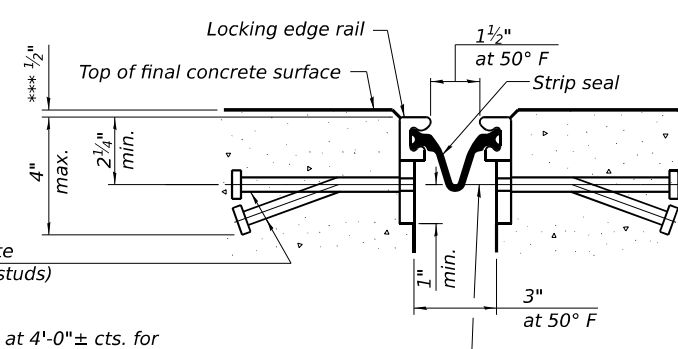
\*\*\* Prior to 1/4" Diamond Grinding

\* 5/8" Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

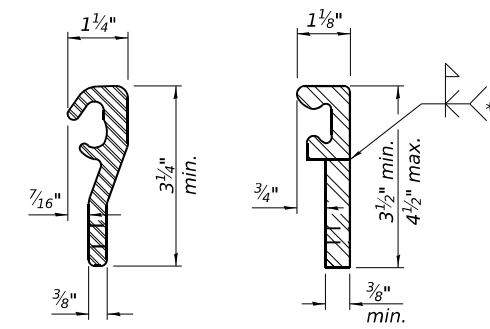
3/8" Ø threaded rods in 7/16" Ø holes at 4'-0" ± cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates within 90 minutes after concrete is set.

**SECTION A-A**

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

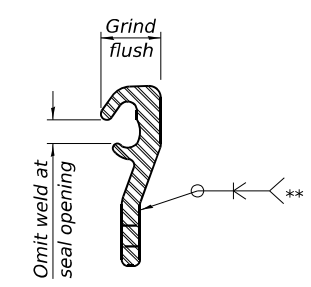


**SHOWING WELDED RAIL JOINT**



**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.

**BILL OF MATERIAL**

Item	Unit	Total
Preformed Joint Strip Seal	Foot	94

MODEL: Sheet 7  
 FILE NAME: P:\2025\183-1\Structure\#071-0078\Design\Design\CADD\_Sheets\Structural\264171-sh019-Preformed Joint Strip Seal.dgn

EJ-SS 10-3-2025



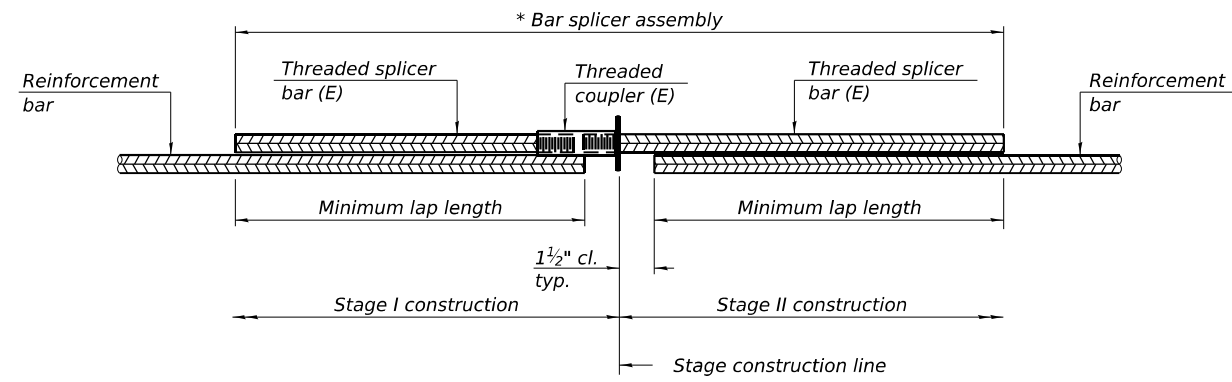
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PLOT DATE =	CHECKED -	REVISOR -

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

**PREFORMED JOINT STRIP SEAL**  
**SN 071-0078 OVER PINE CREEK**

SHEET 7 OF 8 SHEETS

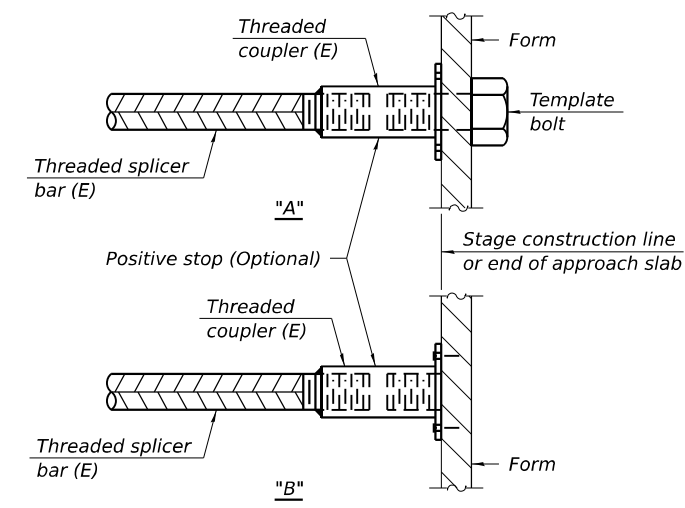
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17A	(102BR-1)BRR	OGLE	30	19
CONTRACT NO. 64T47				
ILLINOIS FED. AID PROJECT				



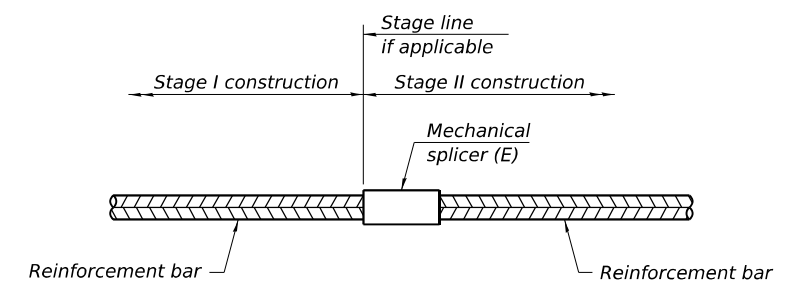
**STANDARD BAR SPLICER ASSEMBLY PLAN**  
 Only bar splicer assemblies as presented on the approved QPL list may be used.

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
W. End of Deck	#7	8	4'-1"
W. End of Deck	#6	2	5'-3"
W. End of Deck	#6	4	5'-3"
W. Abut. Backwall	#6	4	4'-8"
E. End of Deck	#7	8	4'-1"
E. End of Deck	#6	2	5'-3"
E. End of Deck	#6	4	5'-3"
E. Abut. Backwall	#6	4	4'-8"

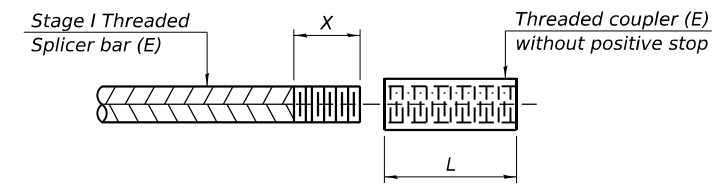


**INSTALLATION AND SETTING METHODS**  
 "A" : Set bar splicer assembly by means of a template bolt.  
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
 (E) : Indicates epoxy coating.



**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required



**THREADING OF ASSEMBLIES**

The threaded length "X" shall be no more than L/2. The bar should be tightened until 0-1 thread(s) is/are exposed.

**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.

MODEL: Sheet 8  
 FILE NAME: P:\2025\183-1\Structure\#071-0078\Design\CADD\_Sheets\Structural\2025-08-08-08-35-27-AM\_Splicer\_Assembly.dgn

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USER NAME =	DESIGNED	REVISIONS
	CHECKED	REVISIONS
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PLOT DATE =	CHECKED	REVISIONS

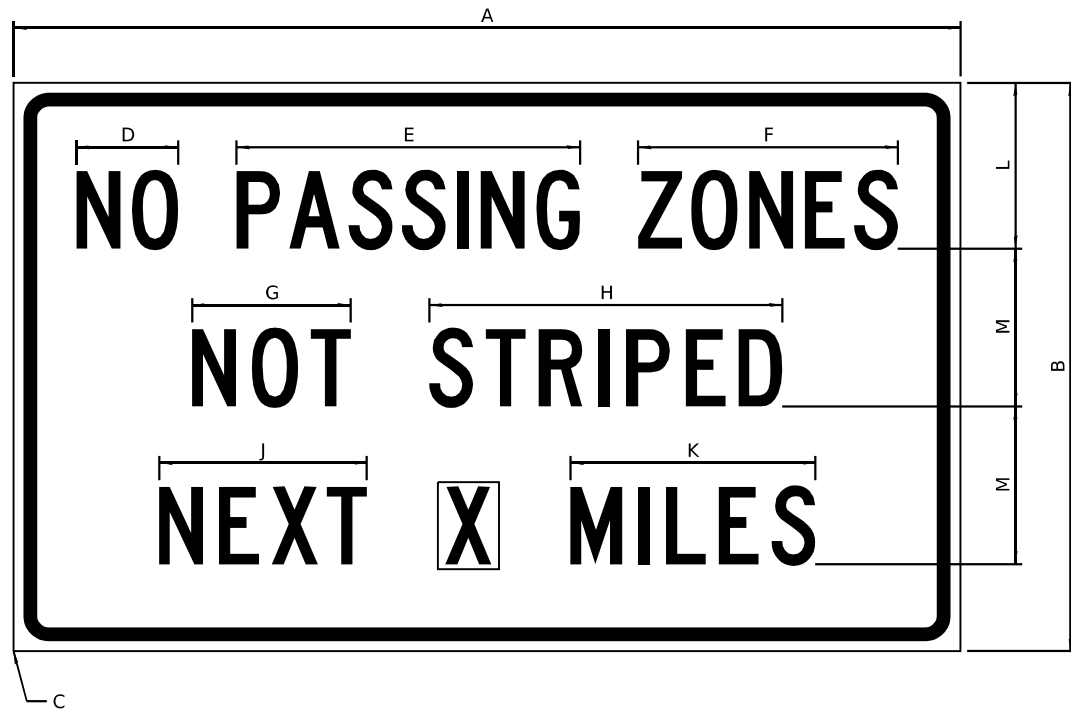
**STATE OF ILLINOIS  
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**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS**  
**SN 071-0078 OVER PINE CREEK**  
 SHEET 8 OF 8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17A	(102BR-1)BRR	OGLE	30	20
CONTRACT NO. 64T47				
ILLINOIS FED. AID PROJECT				

# WORK ZONE SIGN DETAILS

**ILLINOIS STANDARD G20-I100(FO)**



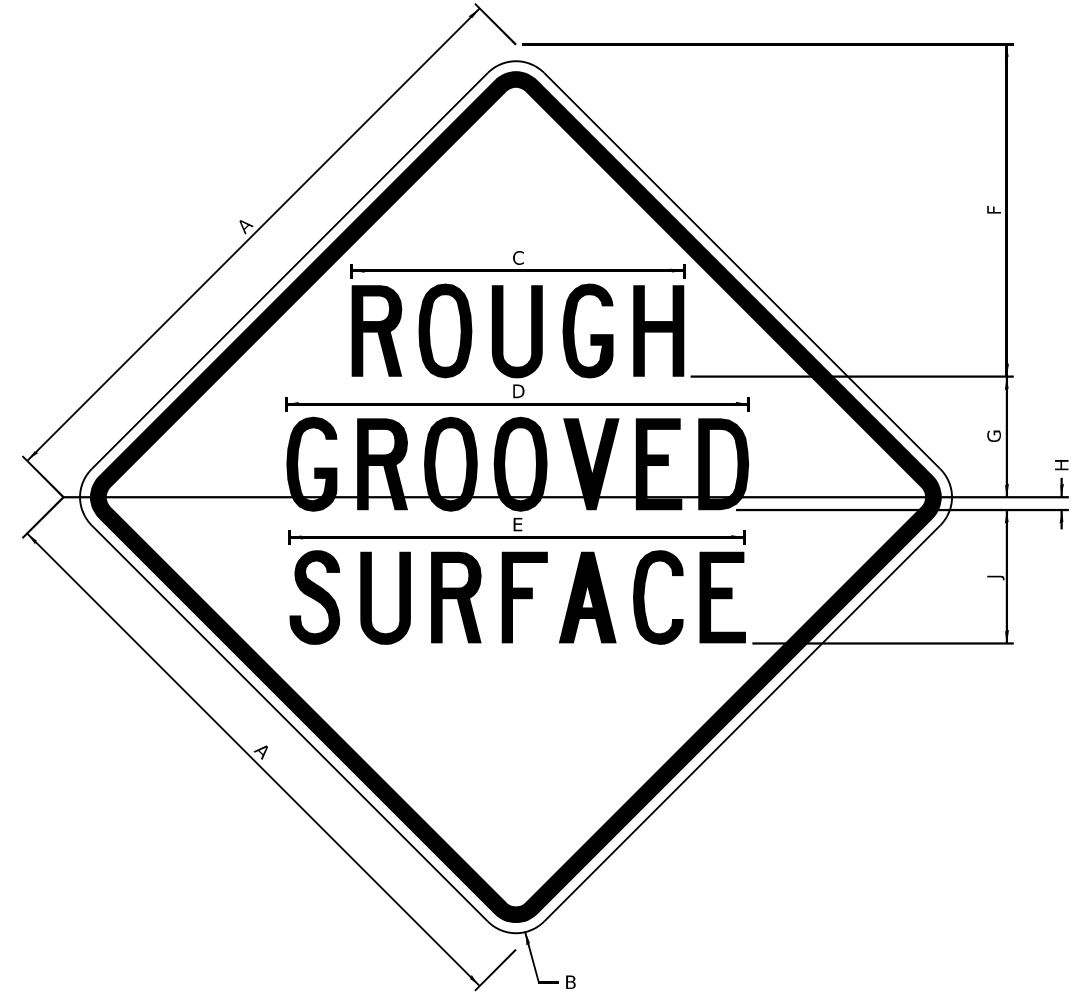
COLOR    LEGEND AND BORDER BACKGROUND    BLACK ORANGE    NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS											
	A	B	C	D	E	F	G	H	J	K	L	M
60 x 36	60.00	36.00	2.25	6.4	21.80	16.40	10.00	22.40	13.20	15.50	10.50	10.00

SIGN SIZE	SERIES BY LINE			MARGIN	BORDER
	1	2	3		
60 x 36	5C	5C	5C	0.625	0.875

Sign not to scale

**ILLINOIS STANDARD W8-I107**



COLOR    LEGEND AND BORDER BACKGROUND    BLACK ORANGE    NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS									
	A	B	C	D	E	F	G	H	J	
48 x 48	48.00	3.00	25.00	34.80	34.20	24.94	9.00	1.00	10.00	

SIGN SIZE	SERIES BY LINE			MARGIN	BORDER
	1	2	3		
48 x 48	7C	7C	7C	1.250	0.750

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.

MODEL: D2 34.1 (Sheet) FILE NAME: P:\2025\4183-1\Structure #071-0078\Design\CADD Sheets\071-0078 - sht.021 - sht.030 - D2 Standards.dgn

USER NAME = gsturjeon	DESIGNED -	REVISED - 5-22-25
	DRAWN -	REVISED - 3-02-16
	CHECKED -	REVISED -
PLOT DATE = 3/17/2026	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

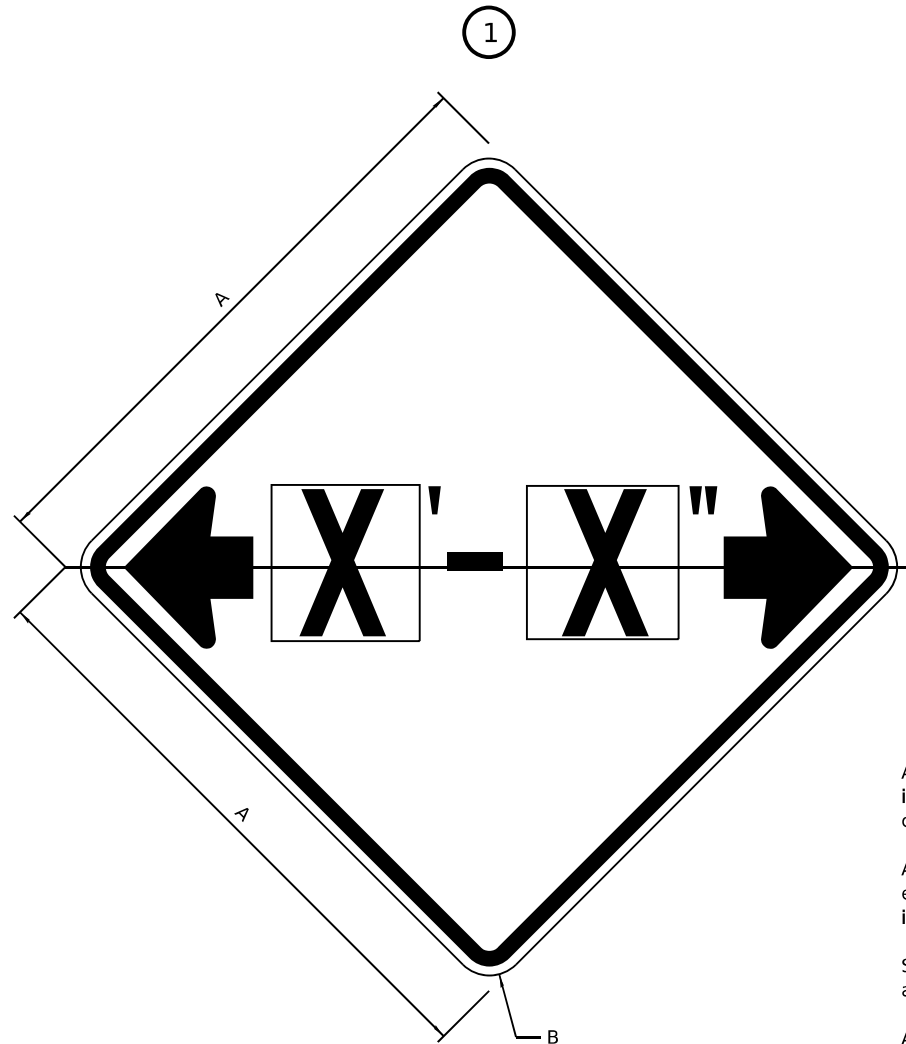
**D2 DETAILS  
SN 071-0078**

SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

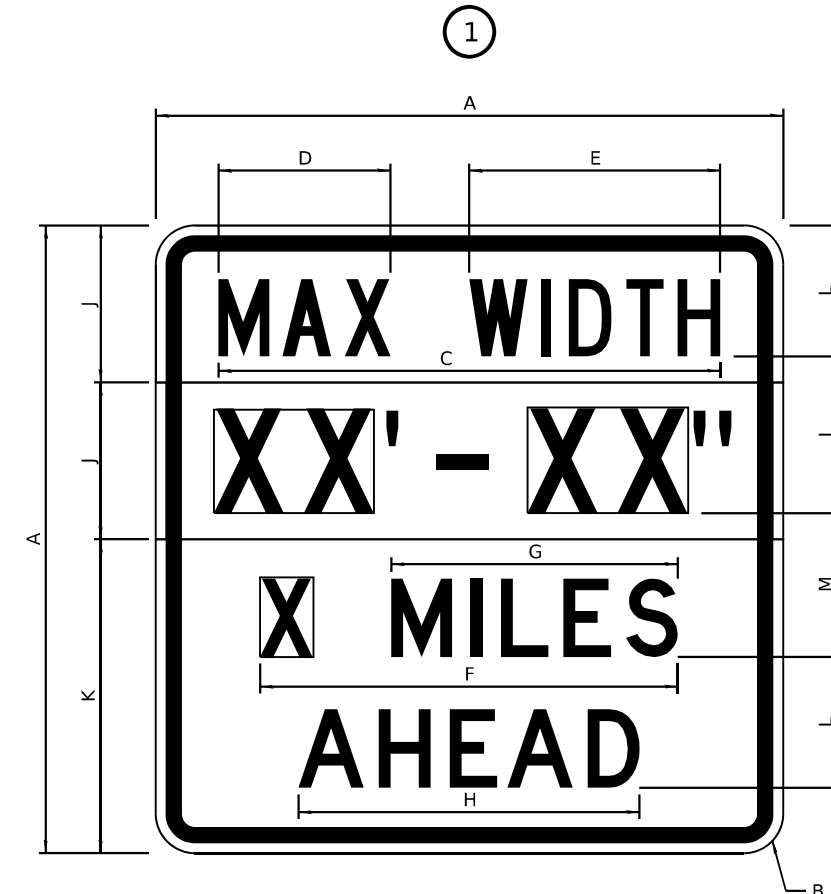
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17A	(102BR-1)BRR	OGLE	30	21
CONTRACT NO. 64T47			ILLINOIS FED. AID PROJECT	

# 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 (WIDTH)      BLACK WHITE FL ORANGE      NON-REFLECTORIZED 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

MODEL: D2 34.1 - 2 (Sheet)  
FILE NAME: P:\2624183-1\Structure #071-0078\Design\CADD Sheets\071-0078 - sht.021 - sht.030 - D2 Standards.dgn

USER NAME = gsturjeon	DESIGNED -	REVISED - 3-02-16
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 3/17/2026	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

D2 DETAILS  
SN 071-0078

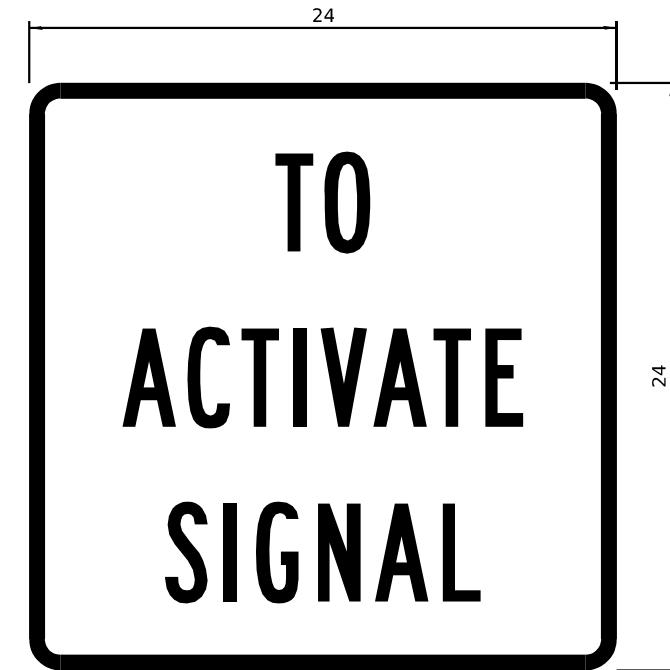
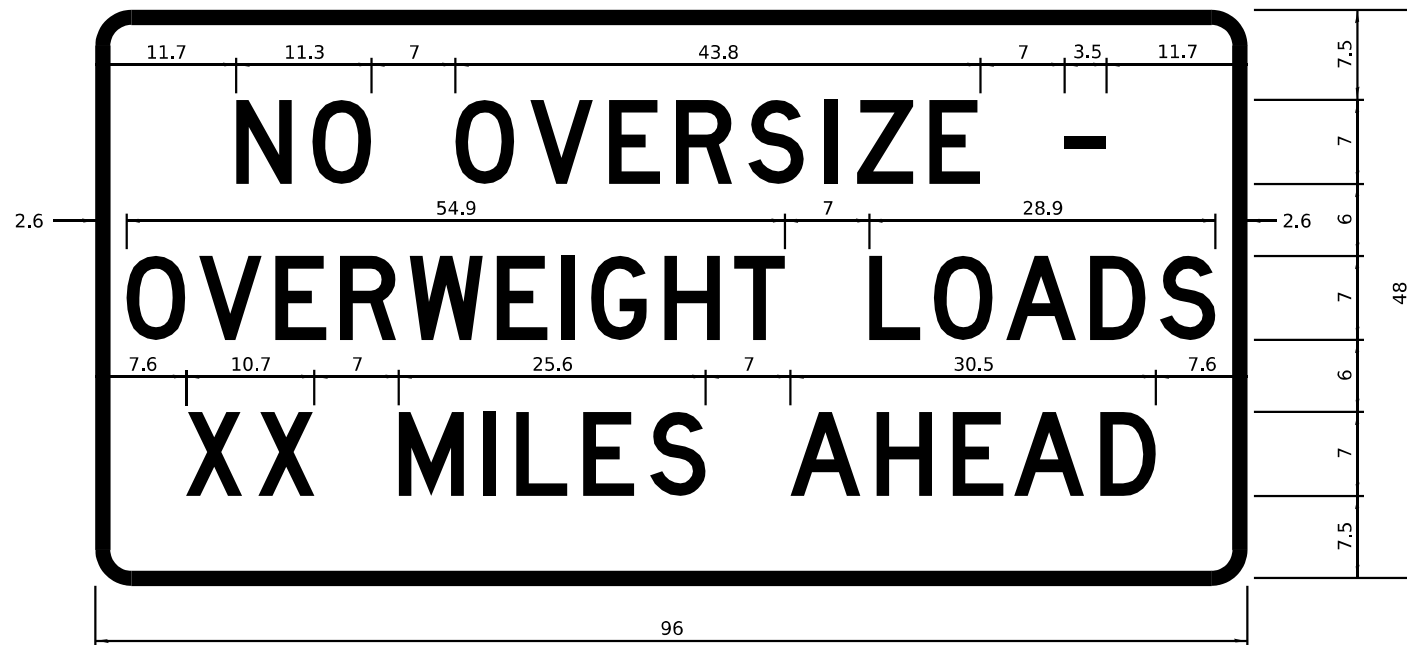
SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17A	(102BR-1)BRR	OGLE	30	22
CONTRACT NO. 64T47				

# 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
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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

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

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

Sign not to scale

### GENERAL NOTES

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

All dimensions are in inches unless otherwise noted.

MODEL: D2 34.1 - 3 (Sheet)  
 FILE NAME: P:\2624183-1\Structure #071-0078\Design\CADD Sheets\071-0078 - sht.021 - sht.030 - D2 Standards.dgn

USER NAME = gsturjeon	DESIGNED -	REVISED - 3-02-16
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 3/17/2026	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

D2 DETAILS  
 SN 071-0078

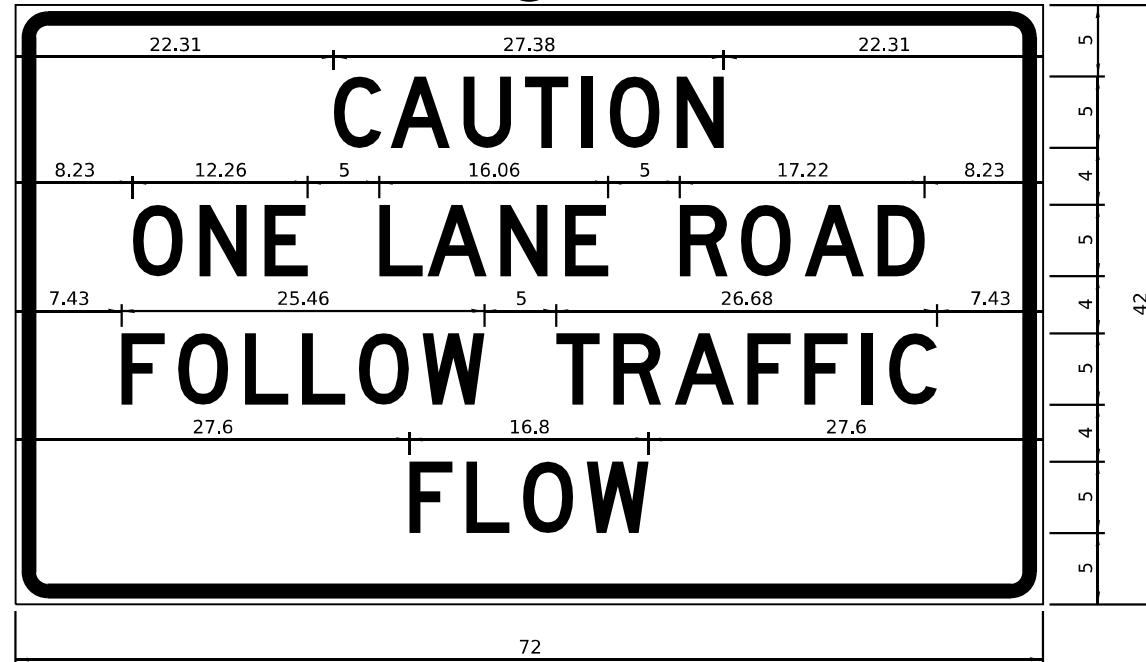
SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17A	(102BR-1)BRR	OGLE	30	23
CONTRACT NO. 64T47				
ILLINOIS FED. AID PROJECT				

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

8.23	O	3.51	1.17	N	3.36	1.18	E	3.04
------	---	------	------	---	------	------	---	------

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

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

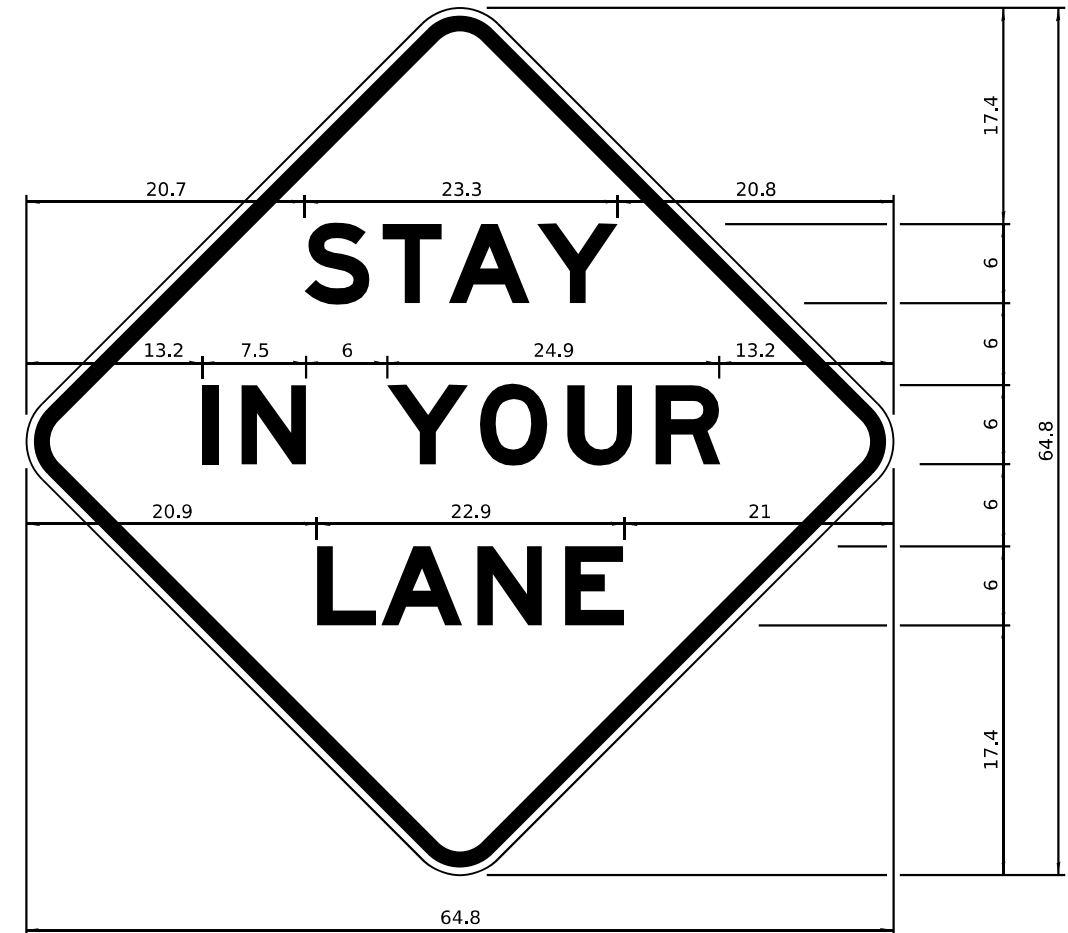
7.43	F	3.04	0.94	O	3.52	1.17	L	3.04	0.94	L	3.05	0.94	O	3.51	0.94	W	4.37
------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------

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

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

Sign not to scale

**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

**GENERAL NOTES**

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All dimensions are in inches unless otherwise noted.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

D2 DETAILS  
SN 071-0078

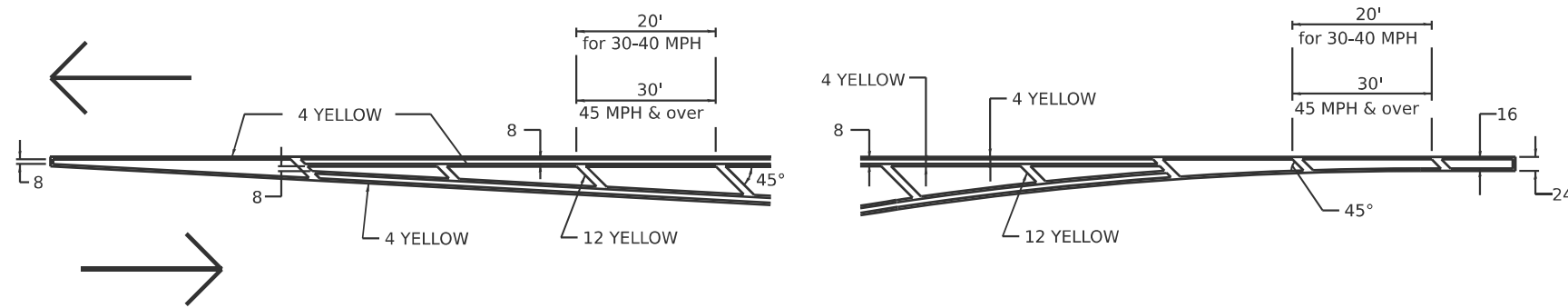
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17A	(102BR-1)BRR	OGLE	30	24
CONTRACT NO. 64T47				
ILLINOIS FED. AID PROJECT				

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

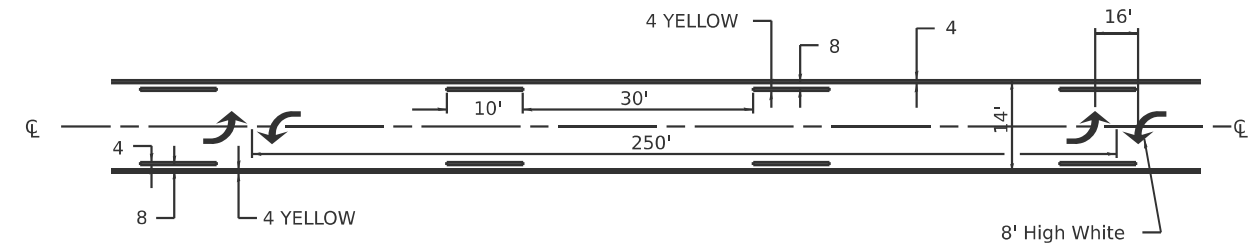
MODEL: D2 34.1 - 4 (Sheet)  
FILE NAME: P:\25E4183-1\Structure #071-0078\Design\CADD Sheets\071-0078 - sht.021 - sht.030 - D2 Standards.dgn

# TYPICAL PAVEMENT MARKINGS

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

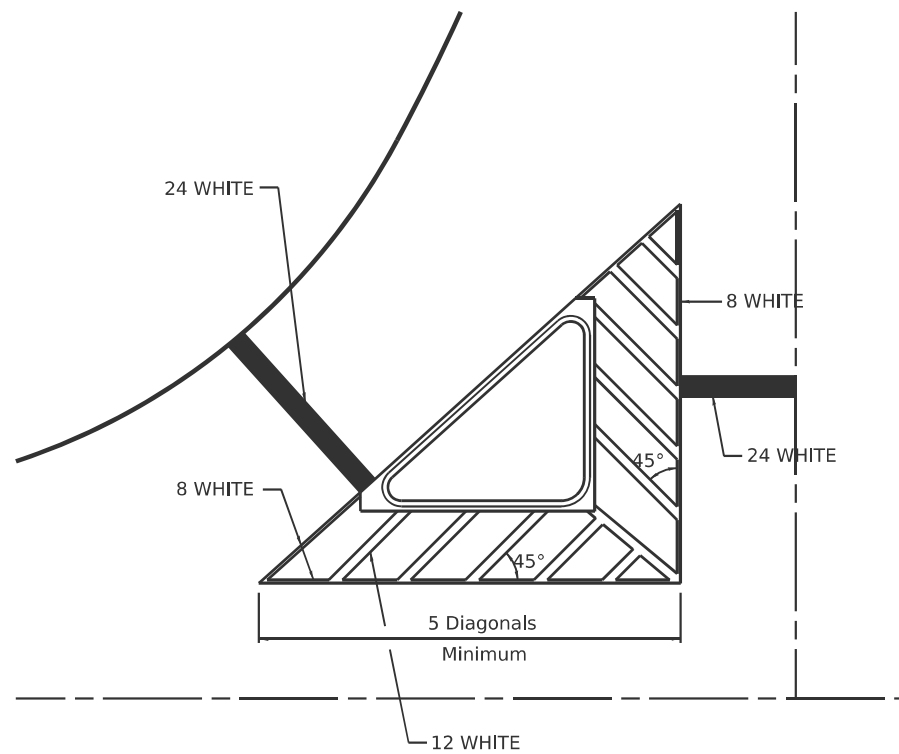


## MEDIAN PAVEMENT MARKING



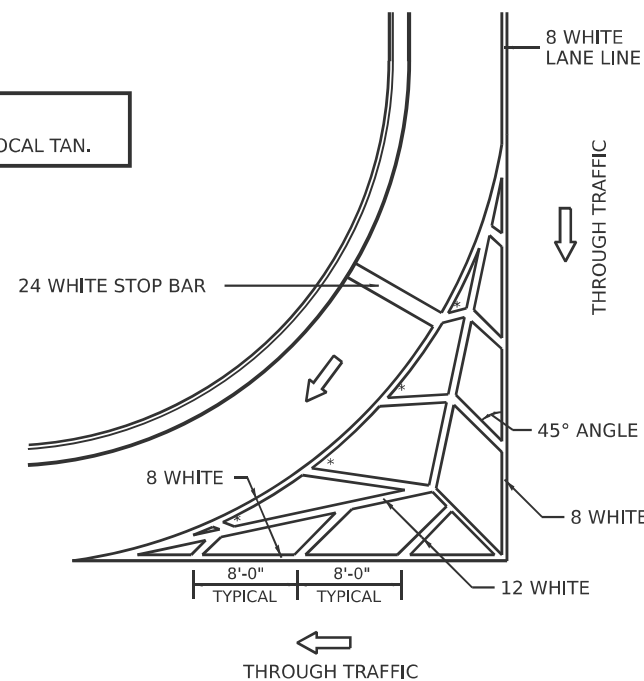
\*\* ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

## TYPICAL ISLAND OFFSET SHOULDER WIDTH



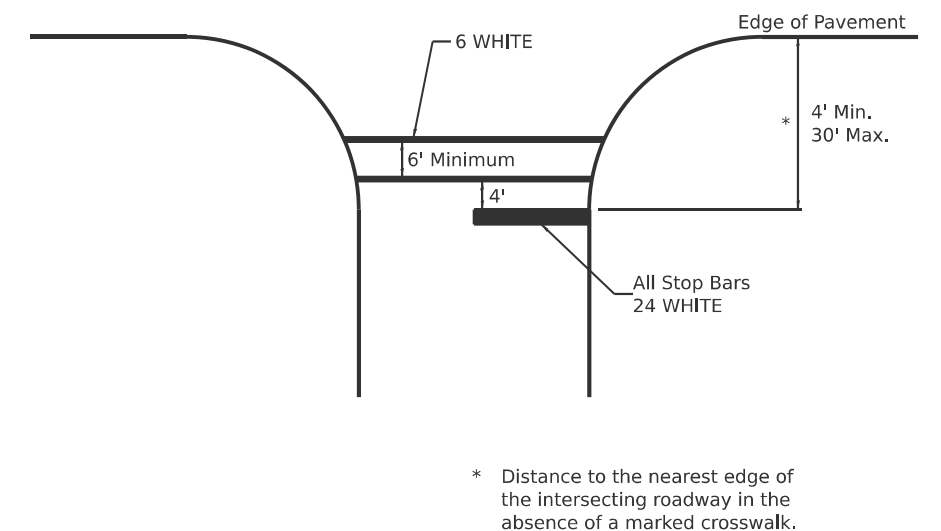
## TYPICAL MARKING FOR PAINTED ISLANDS

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.

MODEL: D2 41.1 (Sheet)  
FILE NAME: P:\2025\4183-1\Structure #071-0078\Design\CADD Sheets\071-0078 - sht.021 - sht.030 - D2 Standards.dgn

USER NAME = gsturjeon	DESIGNED -	REVISED - 6-27-14
	DRAWN -	REVISED - 3-05-12
	CHECKED -	REVISED -
PLOT DATE = 3/17/2026	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

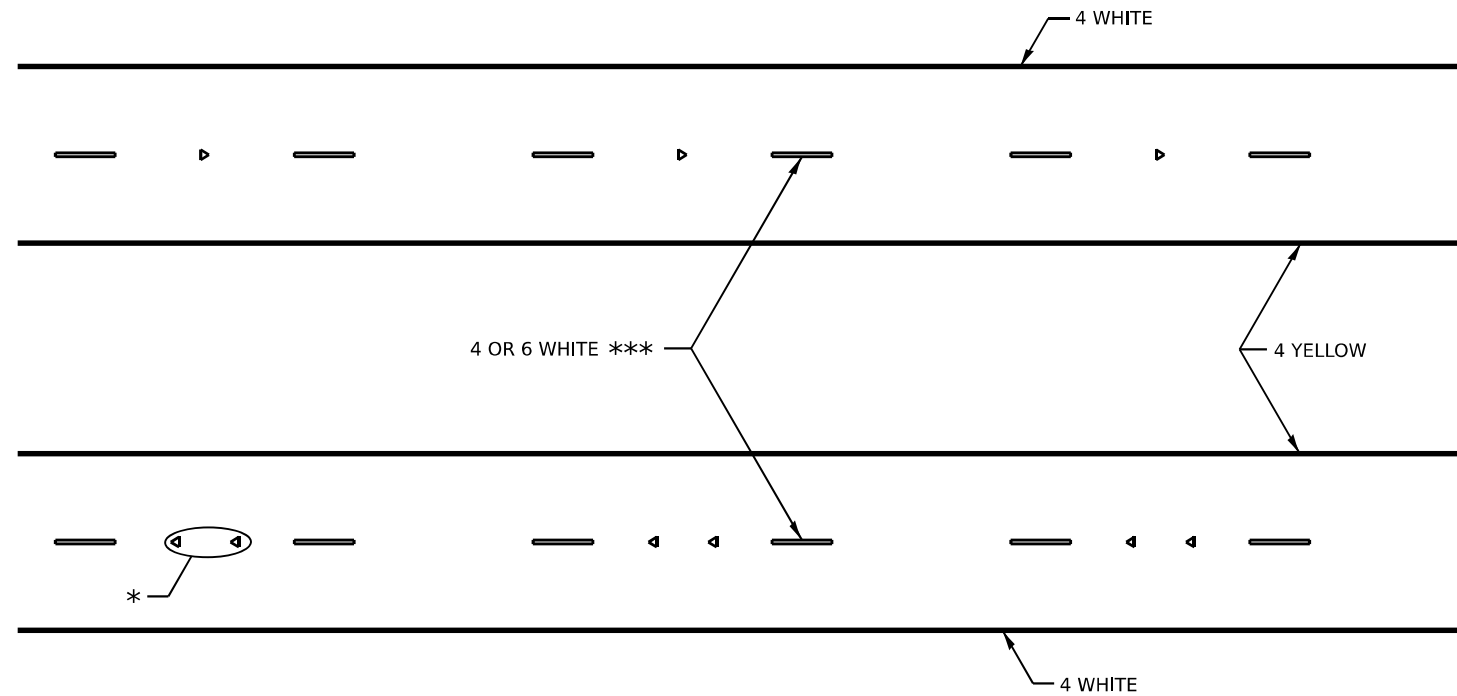
D2 DETAILS  
SN 071-0078

SCALE: SHEET 1 OF 5 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17A	(102BR-1)BRR	OGLE	30	25
CONTRACT NO. 64T47				
ILLINOIS FED. AID PROJECT				

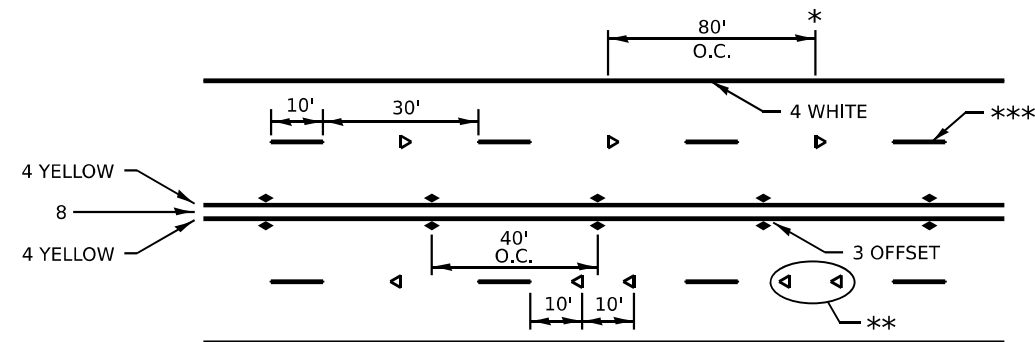


# TYPICAL PAVEMENT MARKINGS



\* 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.

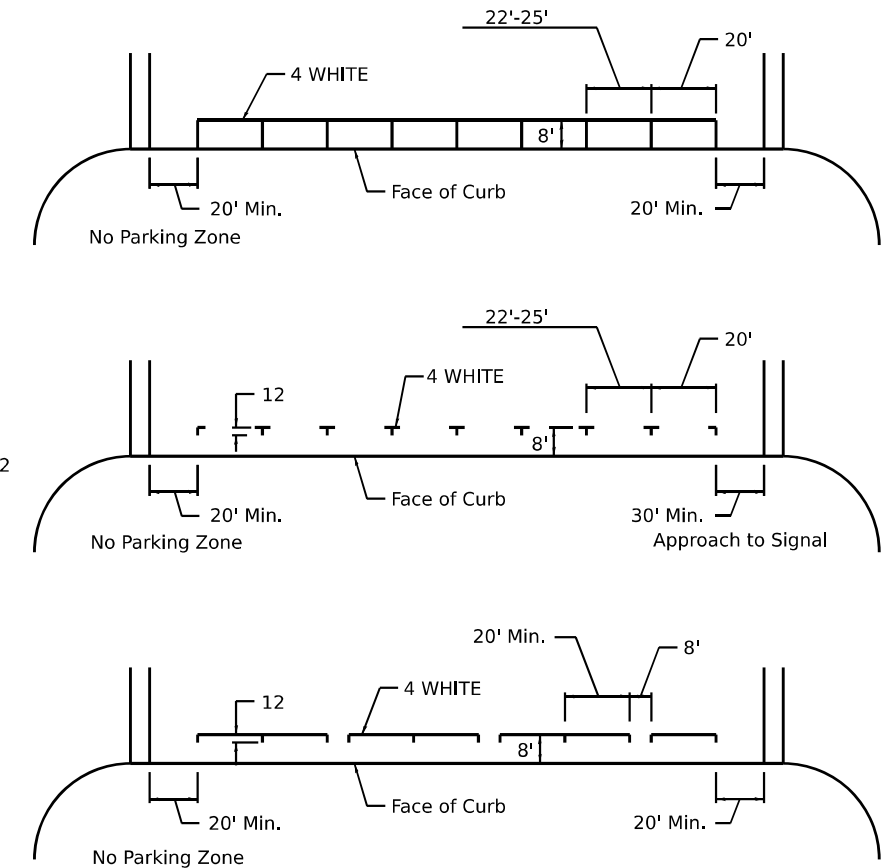
\*\* USE DOUBLE MARKERS WHEN ADT ≥ 20,000

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

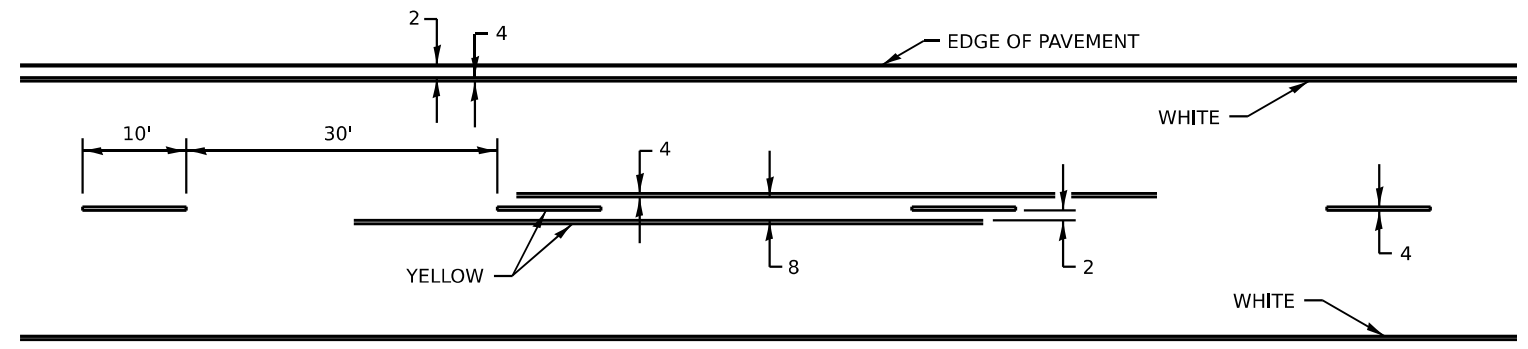
## MULTI-LANE / UNDIVIDED & ONE WAY

(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



MODEL: D2 41.1 - 3 (Sheet)  
FILE NAME: P:\2024\183-1\Structure #071-0078\Design\CADD Sheets\071-0078 - sht.021 - sht.030 - D2 Standards.dgn

USER NAME = gsturjeon	DESIGNED -	REVISED - 6-27-14
	DRAWN -	REVISED - 8-27-13
	CHECKED -	REVISED - 11-28-12
PLOT DATE = 3/17/2026	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

D2 DETAILS  
SN 071-0078

SCALE: SHEET 3 OF 5 SHEETS STA. TO STA.

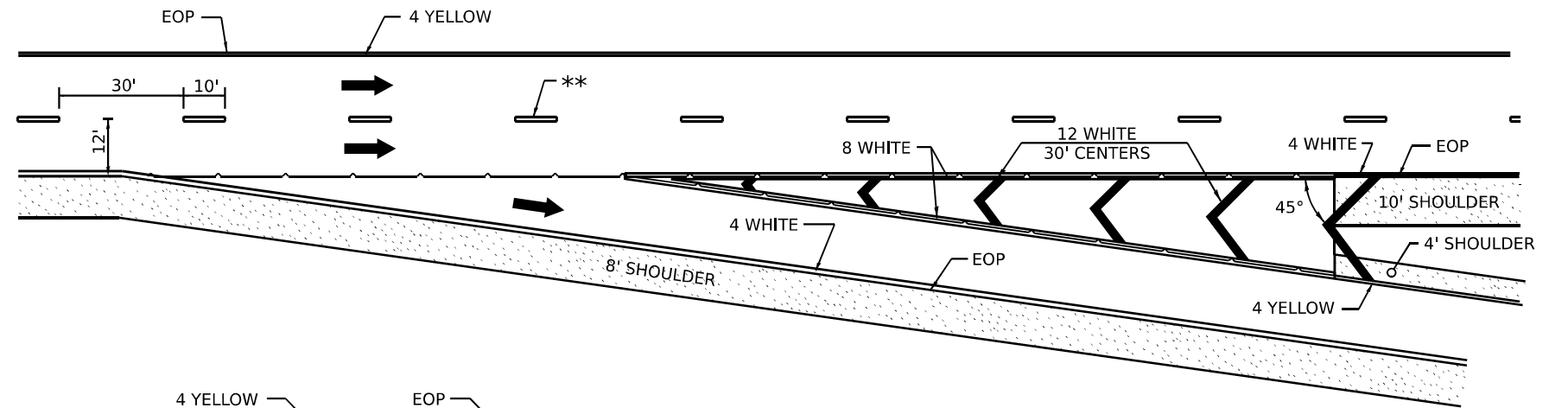
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17A	(102BR-1)BRR	OGLE	30	27
CONTRACT NO. 64T47				
ILLINOIS FED. AID PROJECT				

# TYPICAL PAVEMENT MARKINGS

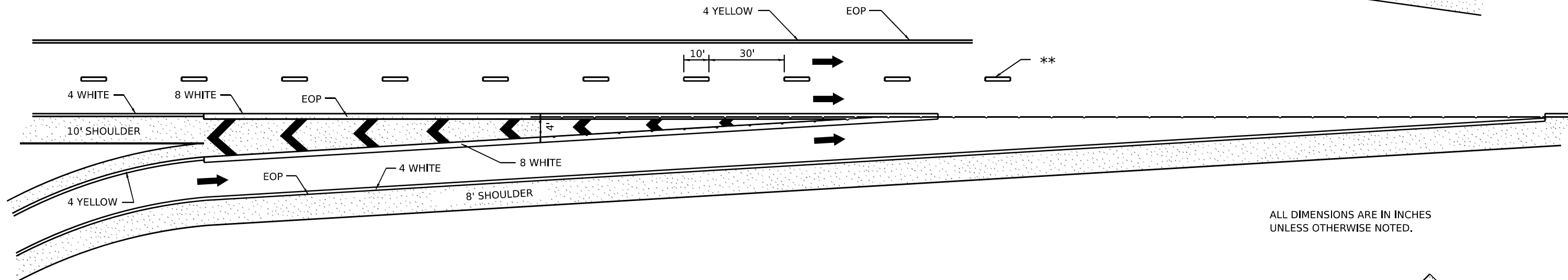
\*\* 6" WHITE ON INTERSTATES, WHERE THE SPPED LIMIT IS 65 MPH, OR WHEN DIRECTED BY THE ENGINEER.  
4" WIDE AT ALL OTHER LOCATIONS.

NOTE: GORE HATCHING PLACED ONLY WHEN SCHEDULED IN THE PLANS

## EXIT RAMP

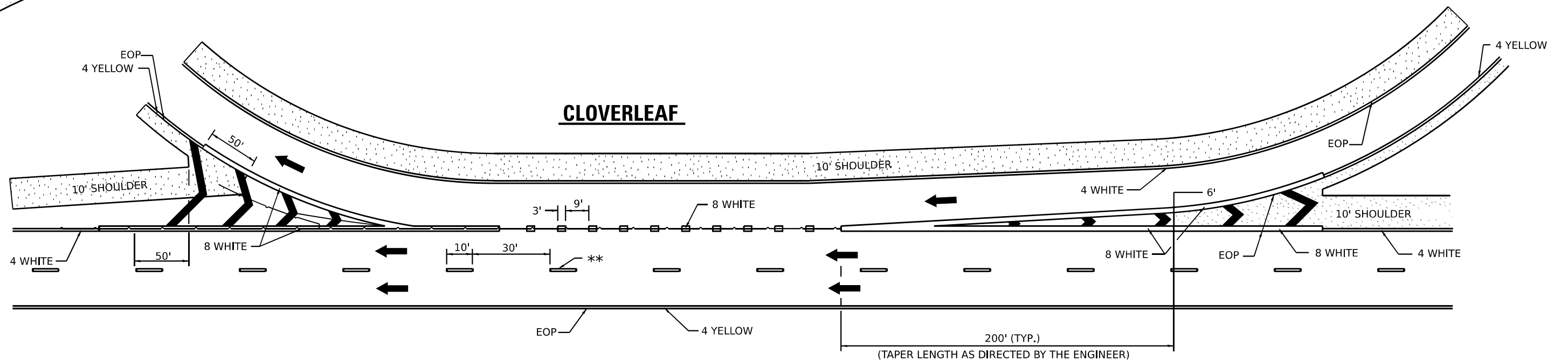


## ENTRANCE RAMP



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

## CLOVERLEAF



MODEL: D2 41.1 - 4 (Sheet)  
FILE NAME: P:\25E4183-1\Structure #071-0078\Design\CADD Sheets\071-0078 - sht 021 - sht 030 - D2 Standards.dgn

USER NAME = gsturjeon	DESIGNED -	REVISED - 9-15-23
	DRAWN -	REVISED - 8-27-13
	CHECKED -	REVISED - 10-18-11
PLOT DATE = 3/17/2026	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

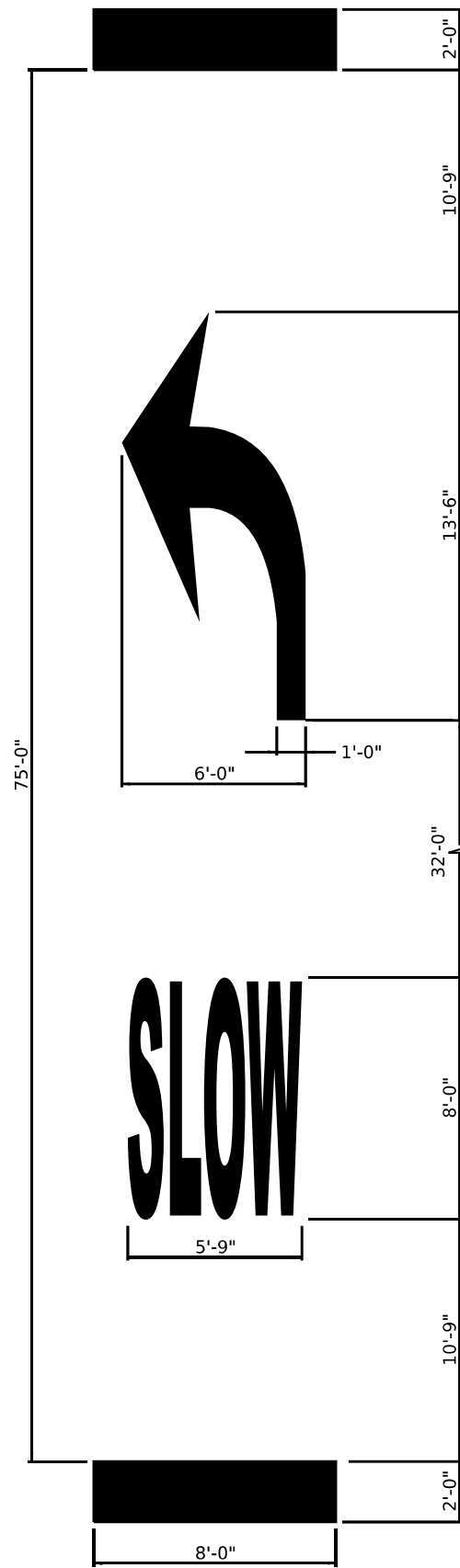
D2 DETAILS  
SN 071-0078

SCALE: SHEET 4 OF 5 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17A	(102BR-1)BRR	OGLE	30	28
CONTRACT NO. 64T47				
ILLINOIS FED. AID PROJECT				

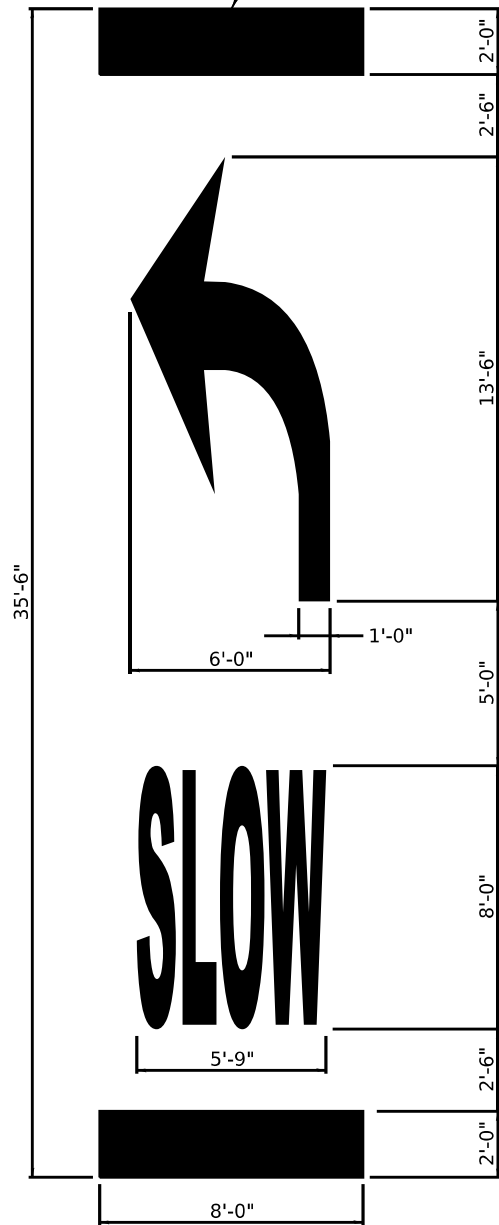
# TYPICAL PAVEMENT MARKINGS

EDGE OF 24" PAVEMENT MARKING SHOULD CORRESPOND TO REFERENCE POINT SET IN FIELD.



**SLOW CURVE ARROW  
HIGH-SPEED STANDARD MARKING**

(POSTED SPEED LIMIT 40 MPH OR GREATER)



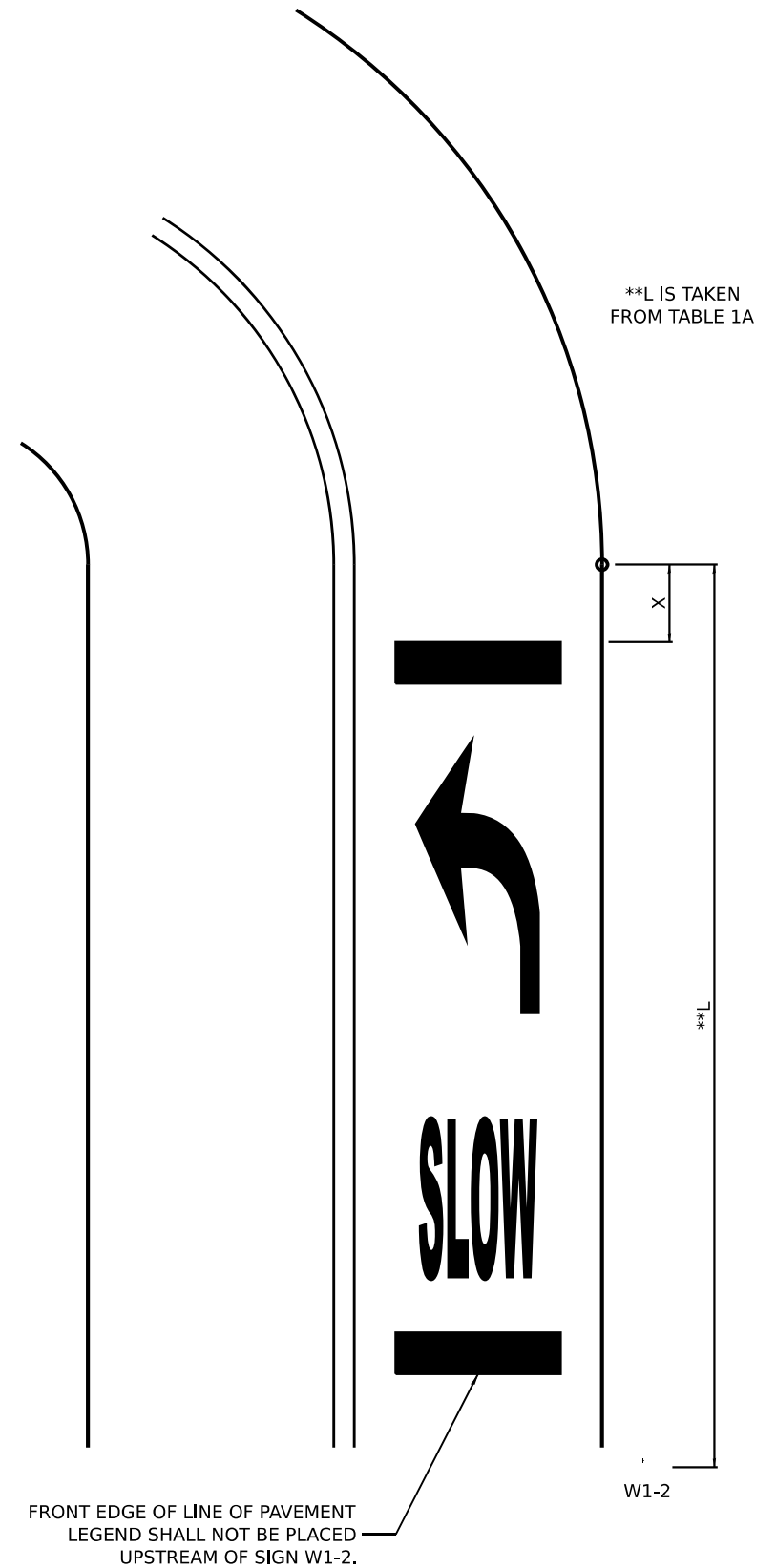
**SLOW CURVE ARROW  
LOW-SPEED STANDARD MARKING**

(POSTED SPEED LIMIT 35 MPH OR LESS)

**TABLE 1A**

POSTED SPEED	WARNING SPEED							
	20	25	30	35	40	45	50	55
VALUE OF X (FT.)								
20 *	100							
25 *	100	100						
30 *	100	100	100					
35 *	100	100	100	100				
40 *	100	100	100	100	100			
45 *	125	110	100	100	100	100		
50 *	225	200	175	135	100	100	100	
55 *	300	275	250	200	175	135	100	100

\* NOTE: ON ROADWAYS WITH A POSTED SPEED LIMIT OF 35 MPH OR LESS, USE THE 35'-6" PAVEMENT MARKING LEGEND AS SHOWN IN THE SLOW CURVE ARROW, LOW-SPEED STANDARD MARKING. ON ALL OTHER ROADWAYS, USE THE 50'-0" PAVEMENT MARKING LEGEND AS SHOWN ON THE SLOW CURVE ARROW, HIGH-SPEED STANDARD MARKING.



**TYPICAL LAYOUT AND PLACEMENT OF  
SUPPLEMENTAL CURVE PLACEMENT MARKING**

MODEL: D2 41.1 - 5 (Sheet)  
FILE NAME: P:\2624183-1\Structure #071-0078\Design\CADD Sheets\071-0078 - sht.021 - sht.021 - D2 Standards.dgn

USER NAME = gsturjeon	DESIGNED -	REVISED - 10-8-25
	DRAWN -	REVISED - 4-17-25
	CHECKED -	REVISED -
DATE = 3/17/2026	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

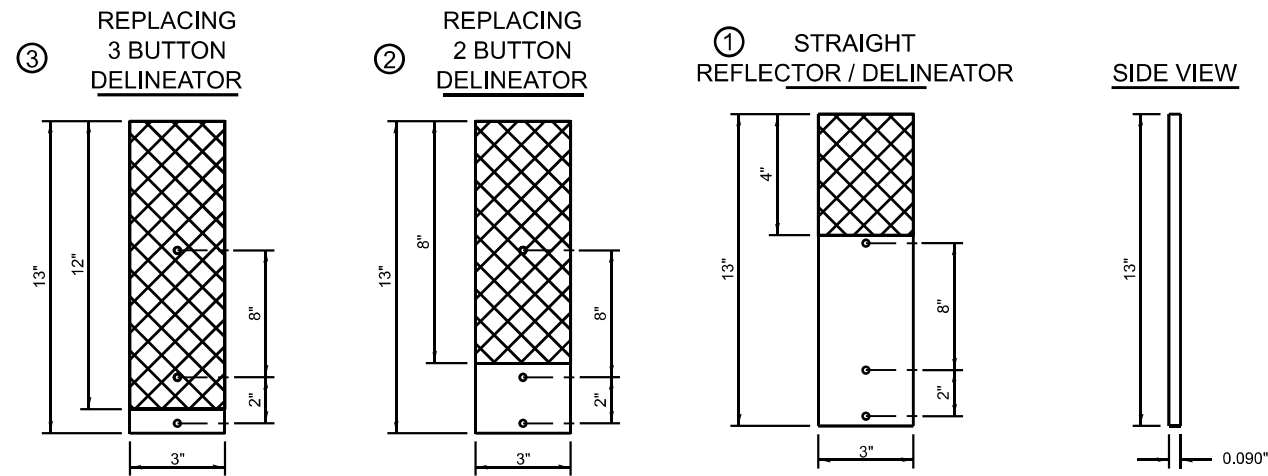
D2 DETAILS  
SN 071-0078

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17A	(102BR-1)BRR	OGLE	30	29
CONTRACT NO. 64T47				
ILLINOIS FED. AID PROJECT				

# REFLECTORS (SPECIAL)

## DELINEATOR REPLACEMENT



**NOTE:**

REFLECTOR REPLACEMENT SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR GUARDRAIL REFLECTORS, TYPE C (SPECIAL), WHICH INCLUDES ALL MOUNTING HARDWARE OUTLINED IN SECTION 635 OF THE SPEC BOOK.

DELINEATOR INSTALLATION (REFLECTOR AND POST) SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR DELINEATORS (SPECIAL), WHICH INCLUDES ALL MOUNTING HARDWARE OUTLINED IN SECTION 635 OF THE SPEC BOOK.

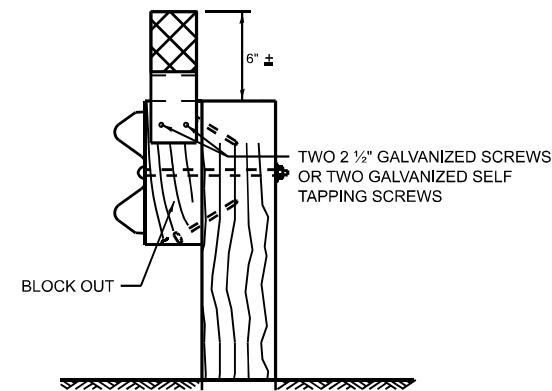
REFLECTORS INSTALLED ON TWO LANE ROADS SHALL BE DOUBLE SIDED AND BOTH SIDES SHALL BE CRYSTAL.

REFLECTORS INSTALLED ON CENTER BARRIER OR IN THE MEDIAN SHALL BE DOUBLE SIDED AND BOTH SIDES SHALL BE YELLOW.

REFLECTORS INSTALLED ON DIVIDED HIGHWAYS ON THE OUTSIDE OF THE ROADWAY SHALL BE DOUBLE SIDED CRYSTAL.

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

## REFLECTORS FOR GUARDRAIL BLOCK OUT OR DELINEATOR POST

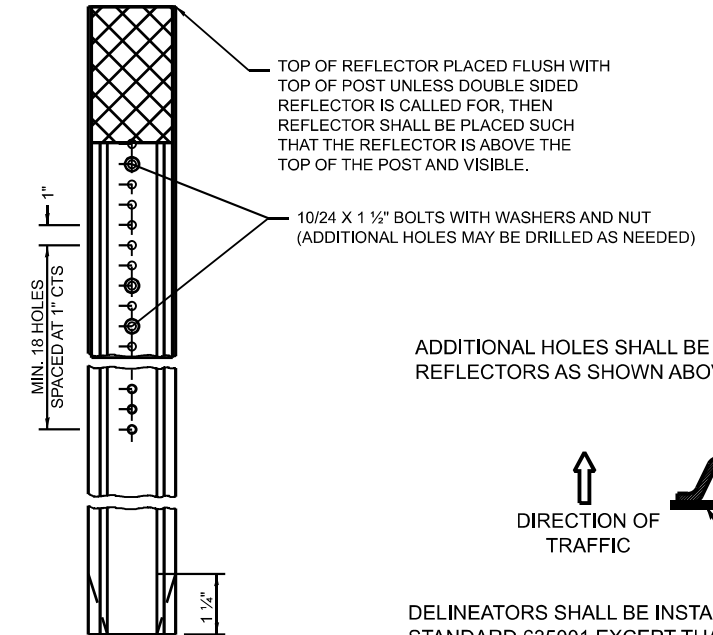


### MOUNTED ON A GUARDRAIL BLOCK OUT

REFLECTORS SHALL BE MOUNTED DIRECTLY TO BLOCK OUTS.

REFLECTORS MOUNTED ON WOODEN OR PLASTIC OR METAL BLOCK OUT SHALL BE MOUNTED USING TWO 2 1/2" GALVANIZED SCREWS WITH WASHERS OR TWO SELF TAPPING GALVANIZED SCREWS WITH WASHERS.

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

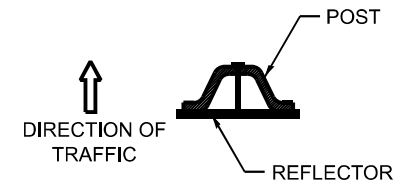


### MOUNTED ON A DELINEATOR POST

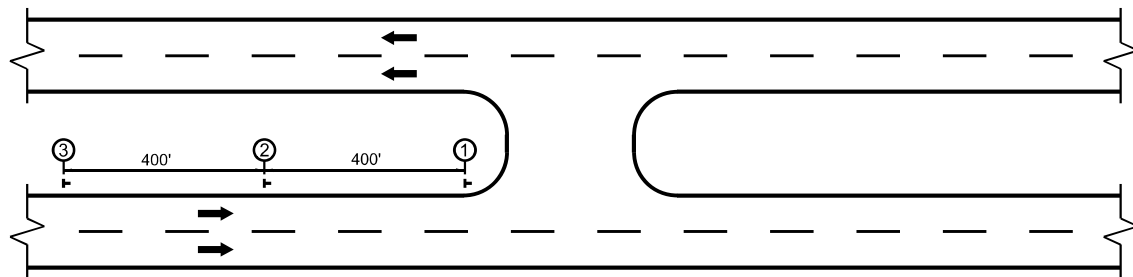
TOP OF REFLECTOR PLACED FLUSH WITH TOP OF POST UNLESS DOUBLE SIDED REFLECTOR IS CALLED FOR, THEN REFLECTOR SHALL BE PLACED SUCH THAT THE REFLECTOR IS ABOVE THE TOP OF THE POST AND VISIBLE.

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

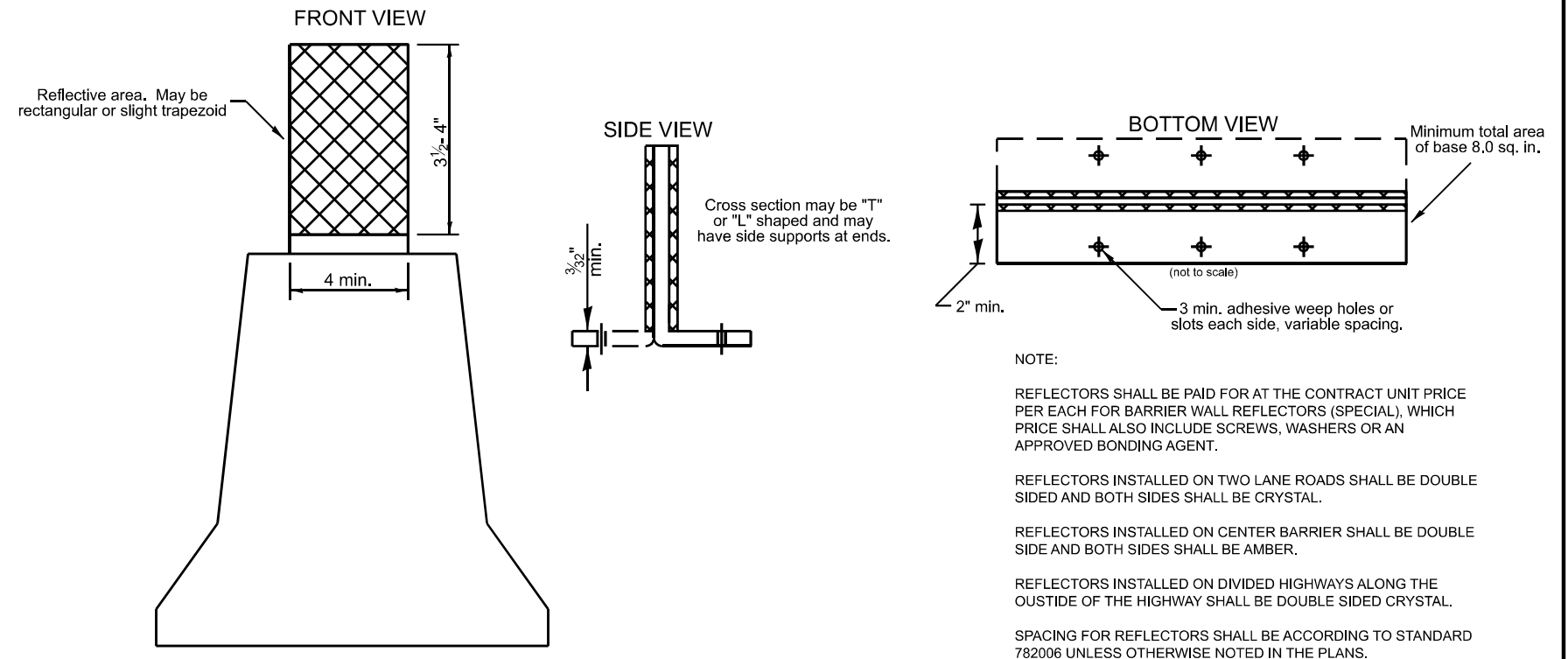
ADDITIONAL HOLES SHALL BE DRILLED IN THE REFLECTORS AS SHOWN ABOVE.



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 ATTACHED AS SHOWN ABOVE.



## REFLECTORS MOUNTED ON BARRIER WALL



**NOTE:**

REFLECTORS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR BARRIER WALL REFLECTORS (SPECIAL), WHICH PRICE SHALL ALSO INCLUDE SCREWS, WASHERS OR AN APPROVED BONDING AGENT.

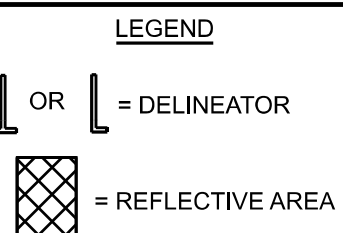
REFLECTORS INSTALLED ON TWO LANE ROADS SHALL BE DOUBLE SIDED AND BOTH SIDES SHALL BE CRYSTAL.

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

REFLECTORS INSTALLED ON DIVIDED HIGHWAYS ALONG THE OUTSIDE OF THE HIGHWAY SHALL BE DOUBLE SIDED CRYSTAL.

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

MODEL: D2 55.1-1 [Sheet] FILE NAME: P:\25E4183-1\Structure #071-0078\Design\CADD Sheets\071-0078 - sht.021 - sht.030 - D2 Standards.dgn



USER NAME = gsturjeon	DESIGNED -	REVISED - 3-07-25
	DRAWN -	REVISED - 3-07-24
	CHECKED -	REVISED - 4-27-23
PLOT DATE = 3/17/2026	DATE -	REVISED - 6-21-21

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT 2 DETAILS  
SN 071-0078**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17A	(102BR-1)BRR	OGLE	30	30
CONTRACT NO. 64T47				
ILLINOIS FED. AID PROJECT				