

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	D7 BRIDGE REPAIRS 2024-2	MACON	31	1
		ILLINOIS	CONTRACT NO. 74B28	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

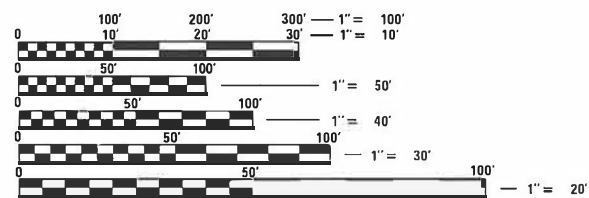
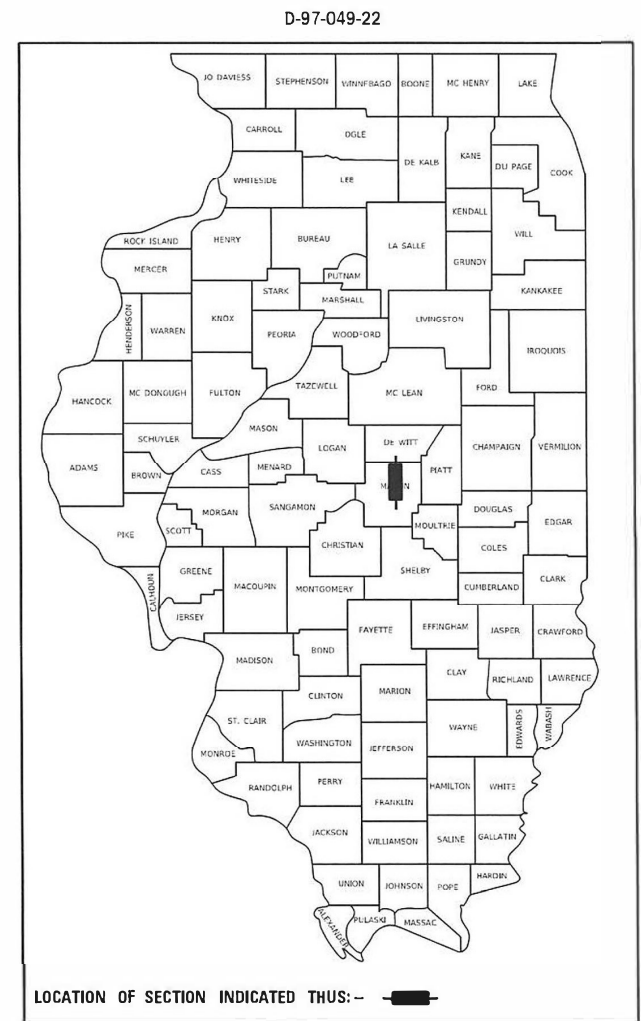
ADT (2021) = 12000

PROPOSED HIGHWAY PLANS

FAP 322 (US 51)
SECTION D7 BRIDGE REPAIRS 2024-2
PROJECT NHPP-GJQW(738)
BRIDGE DECK OVERLAY, JOINT REPLACEMENT,
APPROACH PAVEMENT
MACON COUNTY

C-97-096-22

PROJECT LOCATION
STR 058-0113
STR 058-0114



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 - JACQUELYN SEALS
PROJECT MANAGER - KYLE PRICE

CONTRACT NO. 74B28



GROSS LENGTH = 500 FT. = 0.1 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED OCTOBER 19 2023
Jeffrey P. Myrland
REGIONAL ENGINEER
December 8, 2023

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

Stephen M. Lewis
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

INDEX OF SHEETS

1	COVER SHEET
2	GENERAL NOTES, INDEX, HIGHWAY STANDARDS
3-4	SUMMARY OF QUANTITIES
5-6	SCHEDULE OF QUANTITIES
7-8	TYPICAL SECTIONS
9	PROPOSED WIDENING
10-17	PLAN VIEWS
18	PAVING PLAN VIEW
19-26	BRIDGE REPAIR DETAILS
27	PAVING JOINT DETAIL
28-31	DISTRICT STANDARDS

GENERAL NOTES

THIS PROJECT IS LOCATED ON FAP ROUTE 322 (US 51) IN MACON COUNTY, AT STEVENS CREEK 0.2 MILE NORTH OF EMERY ROAD. THE WORK INCLUDED IN SECTION D7 BRIDGE REPAIRS 2024-2 CONSISTS OF BRIDGE DECK OVERLAY, BRIDGE JOINT REPLACE/REPAIR, BRIDGE APPROACH ROADWAY, AND ANY OTHER WORK NECESSARY TO COMPLETE THE SECTION.

PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIAL. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK. THE CONTRACTOR WILL BE PAID FOR THE QUANTITY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

THE EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH STAGE I & II OF STANDARD 701402 SHALL BE COVERED WITH PAVEMENT MARKING BLACKOUT TAPE, 7".

LONGITUDINAL JOINT SEALANT WILL BE UTILIZED AT THE CENTERLINE JOINT LINE.

THE PRIVATE ENTRANCE LOCATED WITHIN THE LIMITS OF THE PROJECT SHALL REMAIN OPEN AT ALL TIMES.

STD. NO.	DESCRIPTION
000001 - 08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001 - 02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
701101 - 05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 M) TO 24' (600 MM) FROM PAVEMENT EDGE
701106 - 02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 M) AWAY
701400 - 12	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401 - 13	LANE CLOSURE, FREEWAY/EXPRESSWAY
701402 - 12	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
701411 - 09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45 MPH
701901 - 09	TRAFFIC CONTROL DEVICES
704001 - 08	TEMPORARY CONCRETE BARRIER
782006 - 01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
420001-10	PAVEMENT JOINTS
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

LOCATION(S)	MIXTURE USE(S)	PG	DESIGN AIR VOIDS	MIXTURE COMPOSITION	FRICITION AGGREGATE	MIXTURE WEIGHT	QUALITY MANAGEMENT PROGRAM	SUBLOT SIZE	MATERIAL TRANSFER DEVICE (REQUIRED?)
MAINLINE	POLYMERIZED HMA SURFACE COURSE, IL-9.5, MIX "D", N90 (1.5")	SBS PG 70-22	4.0% @ N=90	IL - 9.5	MIXTURE D	N90	QC/QA	3000	N/A
BASE COURSE	HMA BINDER COURSE, IL-19.0, N90 (ALL LIFTS)	PG 64-22	4.0% @ N=90	IL - 19.0	N/A	N90	QC/QA	3000	N/A

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PLOT DATE = 10/20/2023	CHECKED -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	CONTRACT NO. 74828	
	DATE -	REVISED -									ILLINOIS FED. AID PROJECT	

80% FED
20% STATE

80% FED
20% STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0059		
35501320	HOT-MIX ASPHALT BASE COURSE, 9"	SO YD	1644	1644		
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	740	740		
40600370	LONGITUDINAL JOINT SEALANT	FOOT	370	370		
40600990	TEMPORARY RAMP	SO YD	116	116		
40604164	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N90	TON	138	138		
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SO YD	533	533		
44004250	PAVED SHOULDER REMOVAL	SO YD	1644	1644		
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	11	11		
50102400	CONCRETE REMOVAL	CU YD	25.7	25.7		
50300255	CONCRETE SUPERSTRUCTURE	CU YD	28.6	28.6		
50300300	PROTECTIVE COAT	SO YD	942	942		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	4410	4410		
50800515	BAR SPLICERS	EACH	56	56		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0059		
52000110	PREFORMED JOINT STRIP SEAL	FOOT	217	217		
67100100	MOBILIZATION	L SUM	1	1		
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	2	2		
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	1	1		
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1	1		
70107007	PAVEMENT MARKING BLACKOUT TAPE, 7"	FOOT	2548	2548		
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	28		
70300100	SHORT TERM PAVEMENT MARKING	FOOT	1212	1212		
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	1890	1890		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	650	650		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	525	525		
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2		

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	D7 BRIDGE REPAIRS 2024-2	MACON	31	3
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74B28	

80% FED
20% STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0059		
70600251	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2		
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2		
* 78004230	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6"	FOOT	1314	1314		
* 78011035	GROOVING FOR RECESSED PAVEMENT MARKING 7"	FOOT	1314	1314		
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	8	8		
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	8	8		
X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SO YD	532	532		
Z0012111	BRIDGE DECK FLY ASH OR GGBF SLAG CONCRETE OVERLAY, 2 1/2"	SO YD	842	842		
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SO YD	842	842		
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SO YD	9	9		
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SO YD	10	10		
Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SO YD	824	824		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0059		

* SPECIALTY ITEM

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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	D7 BRIDGE REPAIRS 2024-2	MACON	31	4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74828	

HMA WIDENING

STATION	TO	STATION	LOCATION	LENGTH	HOT-MIX ASPHALT BASE COURSE, 9 INCH	PAVED SHOULDER REMOVAL
					35501320	44004250
				FEET	SQ YD	SQ YD
SOUTH BOUND US 51						
421+70		423+51	RT SHOULDER	181	201.1	201.1
421+77		423+89	LT SHOULDER	212	141.3	141.3
424+89		427+67	RT SHOULDER	278	308.9	308.9
425+23		427+73	LT SHOULDER	250	166.7	166.7
NORTH BOUND US 51						
421+69		424+19	LT SHOULDER	250	166.7	166.7
421+75		424+54	RT SHOULDER	279	310.0	310.0
425+53		427+66	LT SHOULDER	213	142.0	142.0
425+86		427+72	RT SHOULDER	186	206.7	206.7
TOTALS					1643.3	1643.3

PAVEMENT MARKINGS AND RPMS

STATION	TO	STATION	LOCATION	LENGTH	PAVEMENT MARKING BLACKOUT TAPE, 7"	SHORT TERM PAVEMENT MARKING REMOVAL	SHORT TERM PAVEMENT MARKING	PREFORMED PLASTIC PAVEMENT MARKING - LINE 6"	GROOVING FOR RECESSED PAVEMENT MARKING 7"	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	RAISED REFLECTIVE PAVEMENT MARKER
					70107007	70300150	70300100	78000400	78011035	78300200	78100100
					FEET	SQ FT	FEET	FEET	FEET	EACH	EACH
SOUTHBOUND US 51											
421+75		427+65	EOP RT	590	344						
425+70		427+65	CENTERLINE	195	114						
421+79		423+99	EOP LT	220	128						
425+03		427+71	EOP LT	268	156						
422+95		425+84	EOP RT	96.3	289	289	289	289	289		
422+95		425+84	CENTERLINE	9.6	29	80	80	80	80	4	4
422+95		425+84	EOP LT	96.3	289	289	289	289	289		
NORTHBOUND US 51											
421+78		427+70	EOP RT	592	345						
421+78		423+73	CENTERLINE	195	114						
421+72		424+39	EOP LT	267	156						
425+43		427+64	EOP LT	221	129						
423+60		426+48	EOP RT	96.0	288	288	288	288	288		
423+60		426+48	CENTERLINE	9.6	29	80	80	80	80	4	4
423+60		426+48	EOP LT	96.0	288	288	288	288	288		
TOTALS					2548	1890	1212	1314	1314	8	8

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CONCRETE BARRIERS AND ATTENUATORS

STATION	TO	STATION	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3	NOTES
			70400100	70400200	70600250	70600350	70600251	
			FT	FT	EACH	EACH	EACH	
SOUTHBOUND US 51 (STAGE 1)								
423+68		426+97	325.0					STAGE 1 (26 PCS)
426+97					1			
SOUTHBOUND US 51 (STAGE 2)								
423+74		425+39		162.5				STAGE 2 (13 PCS)
425+39							1	
		426+65					1	
426+65		427+02		37.5				STAGE 2 (3PCS)
427+02						1		
NORTHBOUND US 51 (STAGE 1)								
422+46		425+75	325.0					STAGE 1 (26 PCS)
422+46					1			
NORTHBOUND US 51 (STAGE 2)								
422+40		425+69		325.0				STAGE 2 (26 PCS)
422+40						1		
TOTALS			650.0	525.0	2	2	2	

PAVING

STATION	TO	STATION	LENGTH	WIDTH	AREA	AREA	SURFACE COURSE	BITUMINOUS MATERIALS (TACK COAT)	POLYMERIZED HMA SURFACE COURSE, IL-9.5, MIX "D", N90 (1 1/2")	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	TEMPORARY RAMP	LONGITUDINAL JOINT SEALANT	AGGREGATE WEDGE SHOULDER, TYPE B
							THICKNESS	40600290	40604164	44000155	40600990	40600370	48102100
			FEET	FEET	SQ FT	SQ YD	INCH	POUND	TON	SQ YD	SQ YD	FEET	TON
SOUTH BOUND US 51													
422+95		423+90	95.0	40.0	3800.0	422.2	1.5	190.0	35.5	133.3	28.9	95.0	2.7
424+94		425+84	90.0	40.0	3600.0	400.0	1.5	180.0	33.6	133.3	28.9	90.0	2.6
NORTH BOUND US 51													
423+60		424+50	90.0	40.0	3600.0	400.0	1.5	180.0	33.6	133.3	28.9	90.0	2.6
425+53		426+48	95.0	40.0	3800.0	422.2	1.5	190.0	35.5	133.3	28.9	95.0	2.7
TOTALS								740	138	533	116	370	11

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

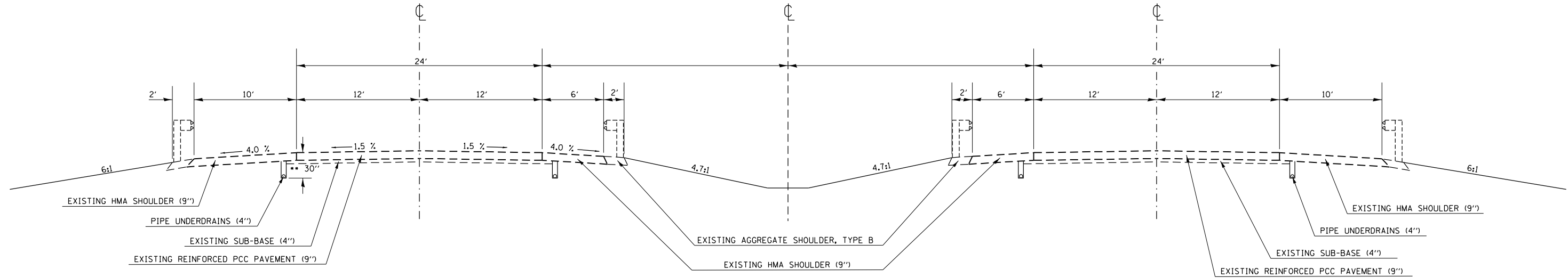
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322	D7 BRIDGE REPAIRS 2024-2	MACON	31	6
CONTRACT NO. 74B28				
ILLINOIS FED. AID PROJECT				

US 51 - EXISTING

STA. 392+00 TO STA. 424+19.86
 STA. 424+19.86 TO 434+00 (BRIDGE OMISSION)
 STA. 425+24.12 TO STA. 434+00

SOUTH BOUND US 51
 TYPICAL CROSS SECTION

NORTH BOUND US 51
 TYPICAL CROSS SECTION

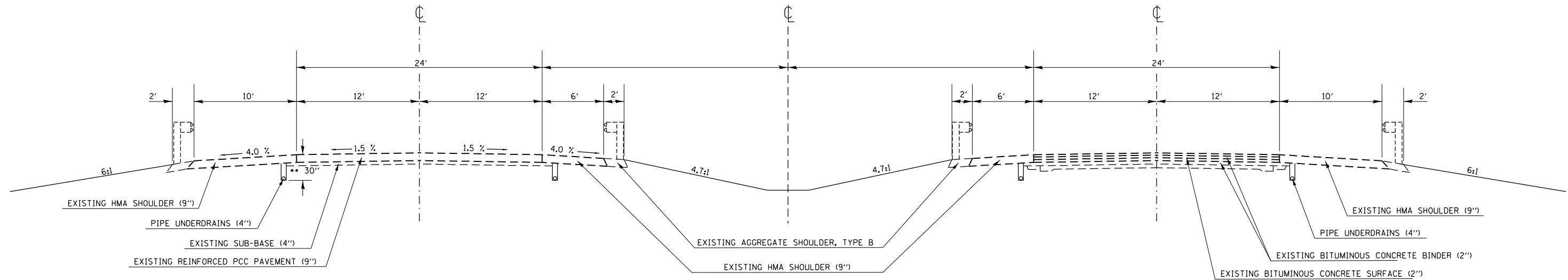


US 51 - EXISTING

STA. 434+00 TO STA. 443+00

SOUTH BOUND US 51
 TYPICAL CROSS SECTION

NORTH BOUND US 51
 TYPICAL CROSS SECTION
 HMA SURFACE (NB LANE ONLY)



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TYPICAL CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

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322	D7 BRIDGE REPAIRS 2024-2	MACON	31	7
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74B28	

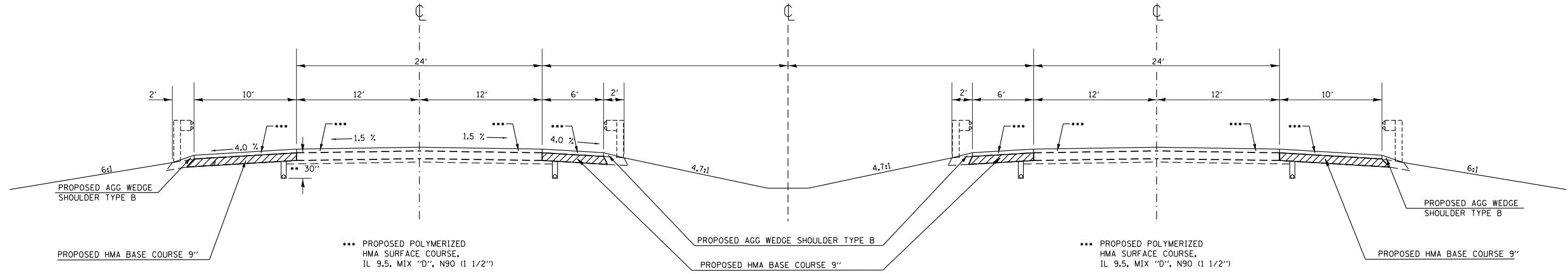
SOUTH BOUND US 51

STA. 422+95 TO 423+90

US 51
PROPOSED CROSS SECTIONS

NORTH BOUND US 51

STA. 423+60 TO 424+50



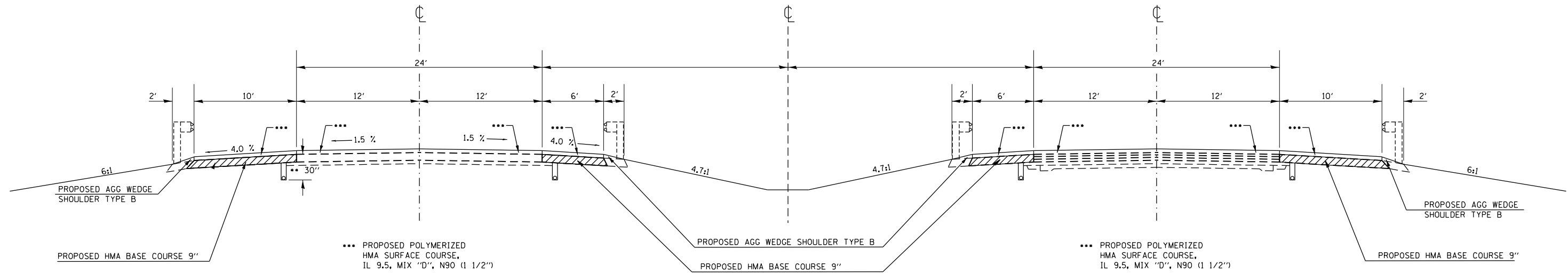
SOUTH BOUND US 51

STA. 424+84 TO 425+84

US 51
PROPOSED CROSS SECTIONS

NORTH BOUND US 51

STA. 425+53 TO 426+48



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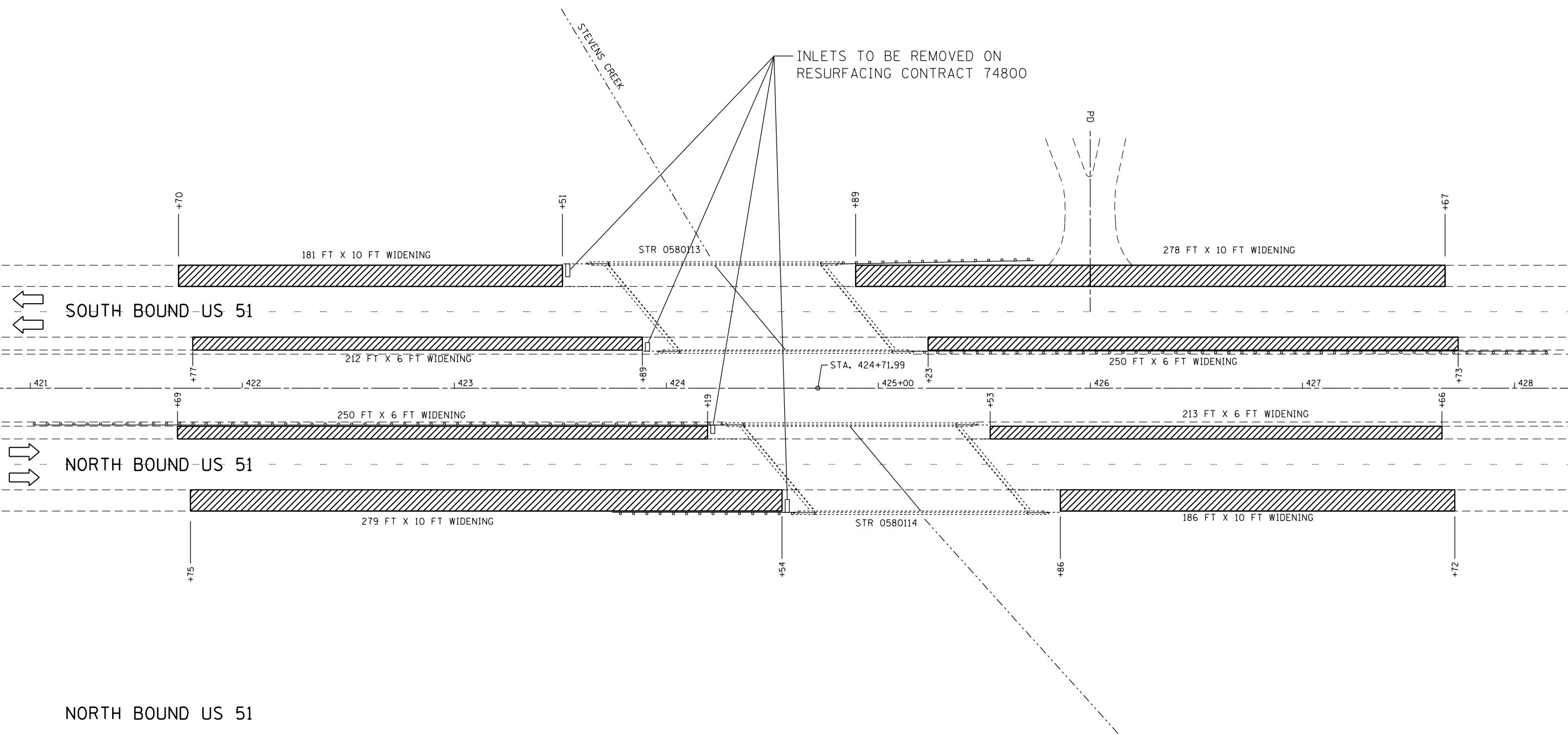
STATE OF ILLINOIS
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TYPICAL CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	D7 BRIDGE REPAIRS 2024-2	MACON	31	8
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74B28	

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SOUTH BOUND US 51

NORTH BOUND US 51

NORTH BOUND US 51

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PROPOSED WIDENING

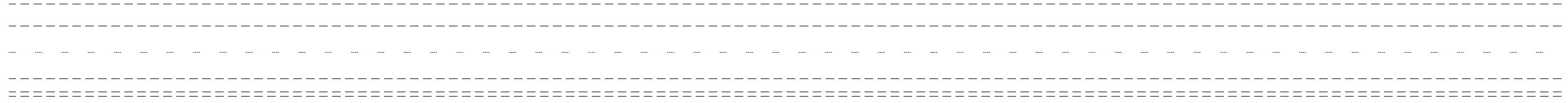
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PLOT DATE = 10/20/2023	DATE -	REVISED -

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CONTRACT NO. 74B28				
ILLINOIS FED. AID PROJECT				



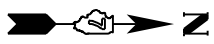
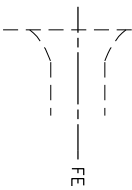
SOUTH BOUND US 51



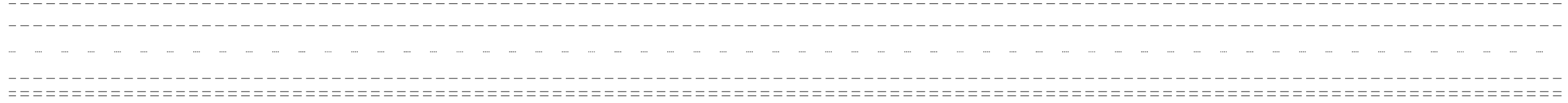
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NORTH BOUND US 51



SOUTH BOUND US 51



Stationing: 397, 398, 399, 400+00, 401, 402, 403



NORTH BOUND US 51

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DEPARTMENT OF TRANSPORTATION

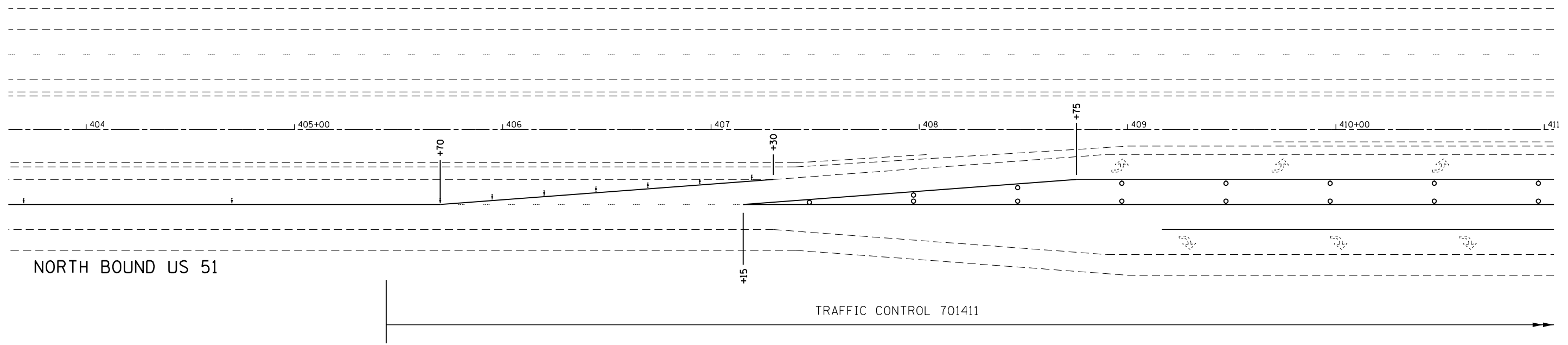
PLAN VIEW
STAGE 1

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	D7 BRIDGE REPAIRS 2024-2	MACON	31	10
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74B28	

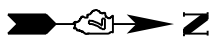


SOUTH BOUND US 51

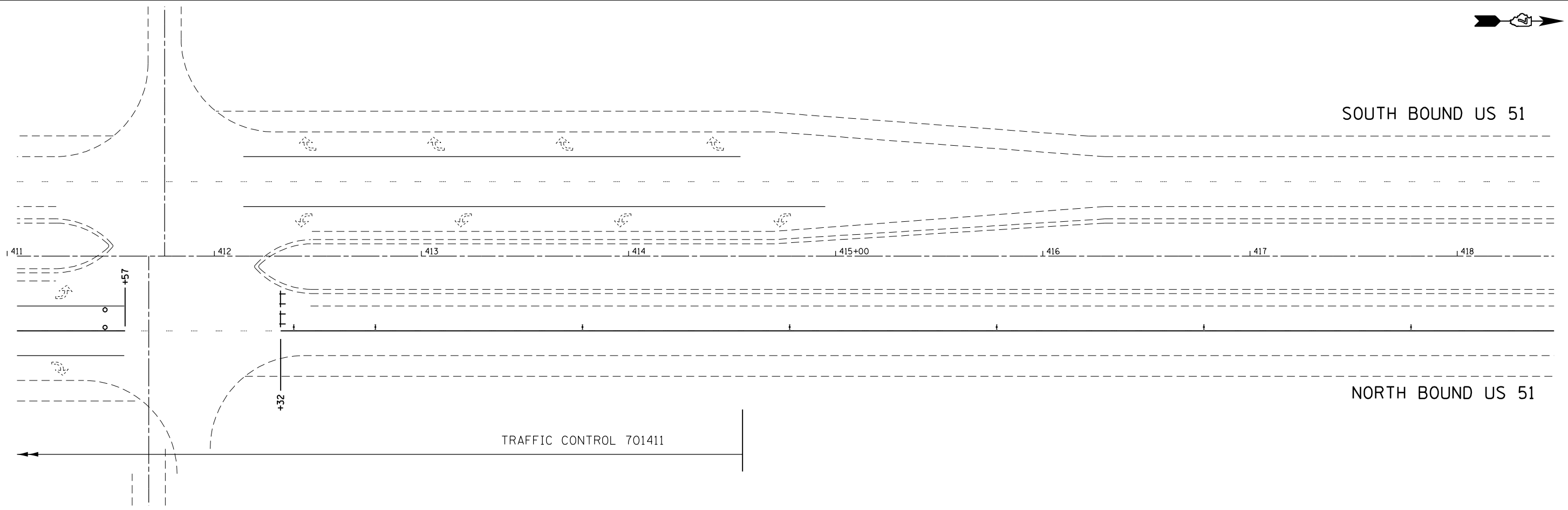


NORTH BOUND US 51

TRAFFIC CONTROL 701411



SOUTH BOUND US 51



NORTH BOUND US 51

TRAFFIC CONTROL 701411

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	DRAWN -	REVISED -
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PLOT DATE = 10/20/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN VIEW
STAGE 1

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	D7 BRIDGE REPAIRS 2024-2	MACON	31	11
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74828	

SOUTH BOUND US 51

419

420+00

421

422

423

424

425+00

NORTH BOUND US 51

+73

+78

+78

+46

+68

+68

+73

+23

+20

+70

+70

+75

STR 0580113

STR 0580114

STA. 424+71.99

STEVENS CREEK



Od

6 PINS

ATTENUATOR

+65

FE

SOUTH BOUND US 51

426

+97

427

+65

428

429

430+00

431

432

+65

433

NORTH BOUND US 51

+70



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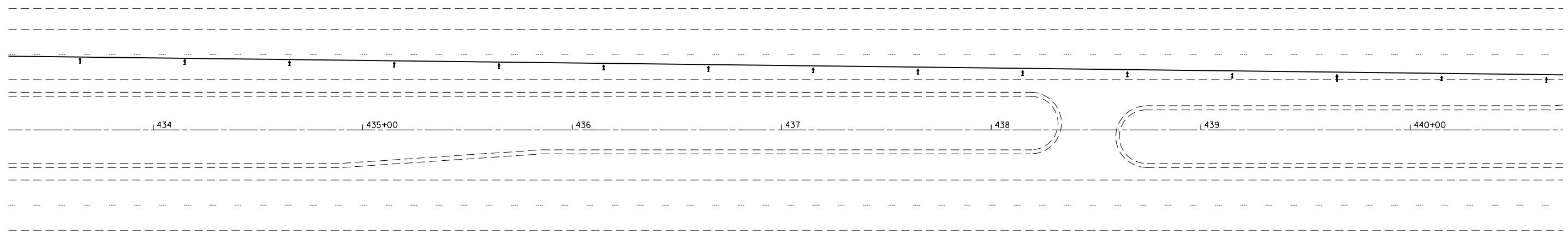
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN VIEW	
STAGE 1	
SCALE:	SHEET OF SHEETS STA. TO STA.

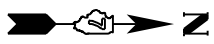
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CONTRACT NO. 74B28				
ILLINOIS FED. AID PROJECT				



SOUTH BOUND US 51

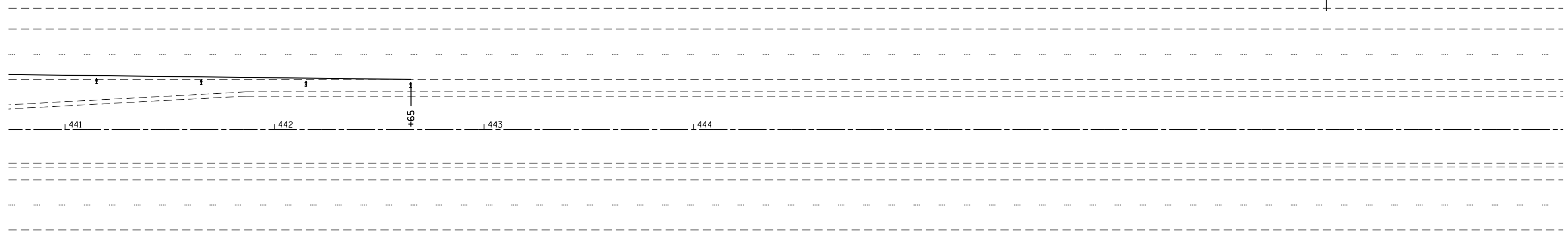


NORTH BOUND US 51



FE SB LANE

SOUTH BOUND US 51



NORTH BOUND US 51

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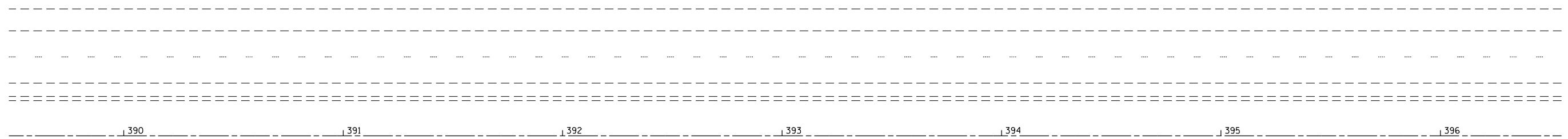
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN VIEW
STAGE 1

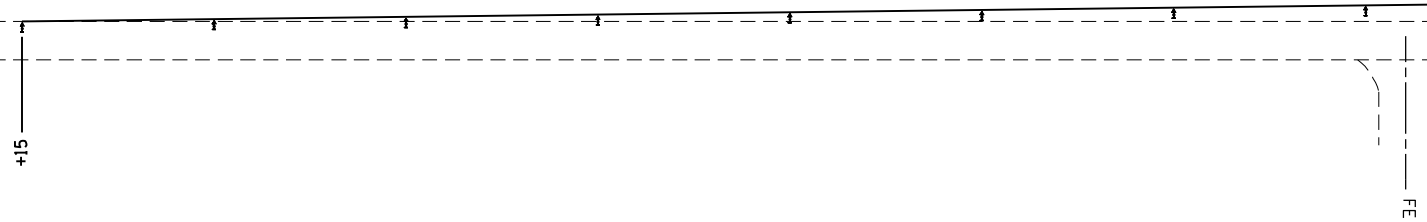
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ILLINOIS FED. AID PROJECT				

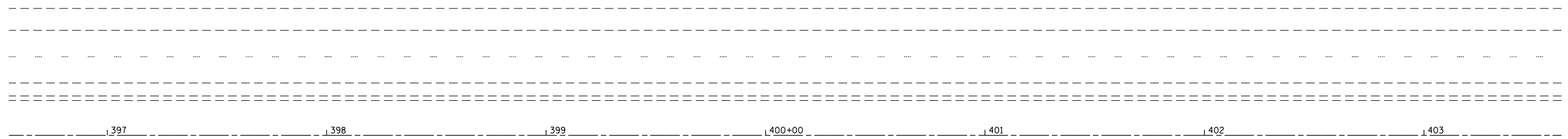
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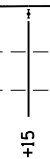
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SOUTH BOUND US 51



NORTH BOUND US 51



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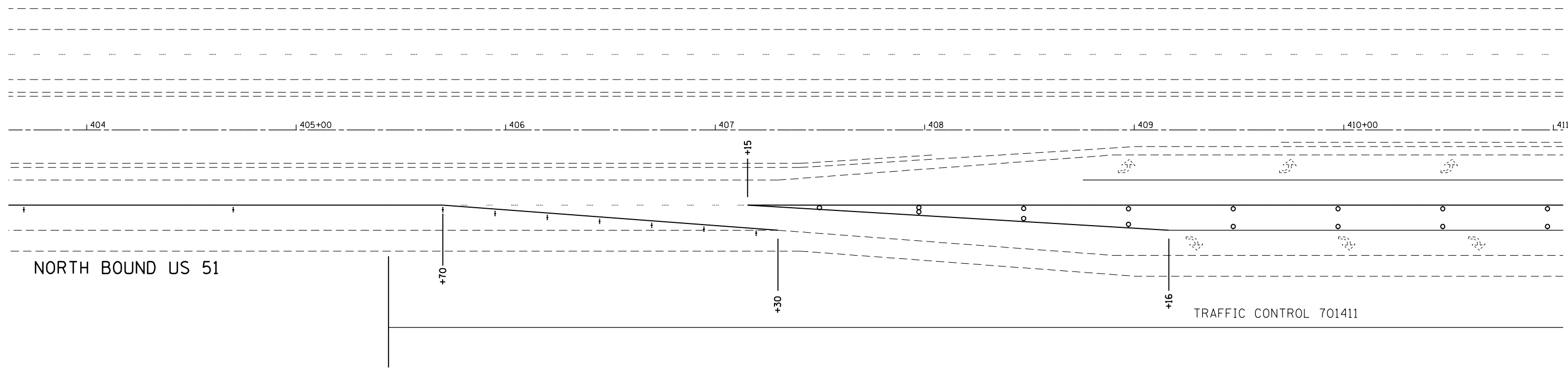
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN VIEW STAGE 1	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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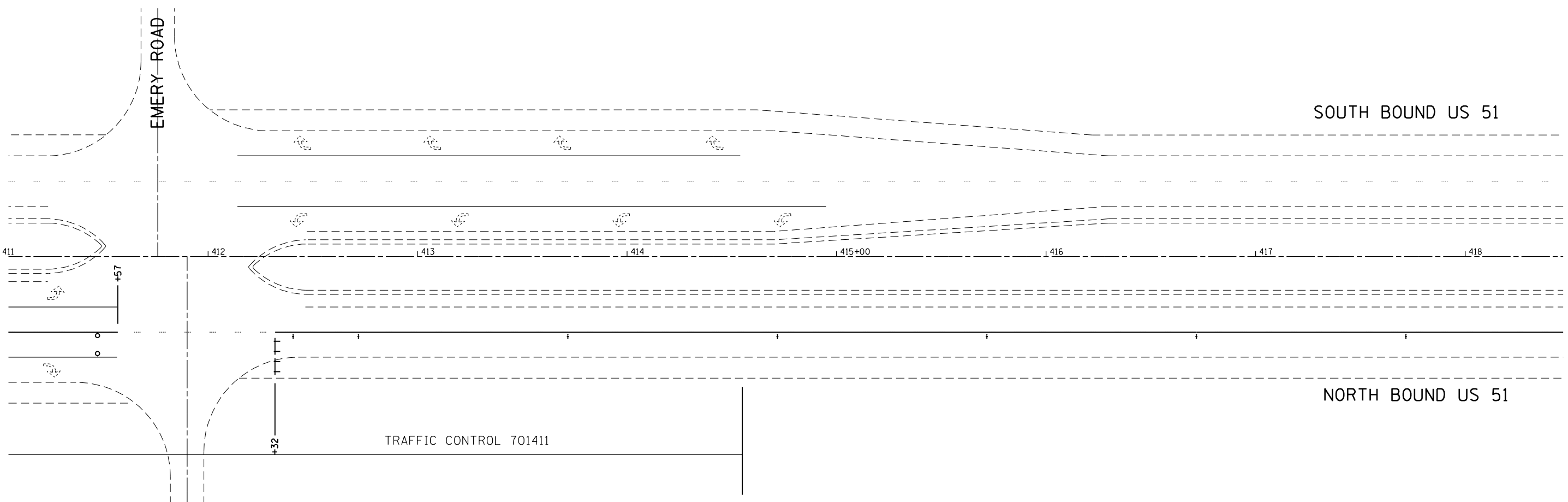
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NORTH BOUND US 51

TRAFFIC CONTROL 701411

EMERY ROAD



SOUTH BOUND US 51

NORTH BOUND US 51

TRAFFIC CONTROL 701411

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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN VIEW STAGE 1			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	D7 BRIDGE REPAIRS 2024-2	MACON	31	15
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74828	

SOUTH BOUND US 51

419 420+00 421 422 423 424 425+00

NORTH BOUND US 51

ATTENUATOR +40 6 PINS

NARROW ATTENUATOR

6 PINS

STR 0580113

STA. 424+71.99

STR 0580114

SOUTH BOUND US 51

426 427 428 429 430+00 431 432 433

NORTH BOUND US 51

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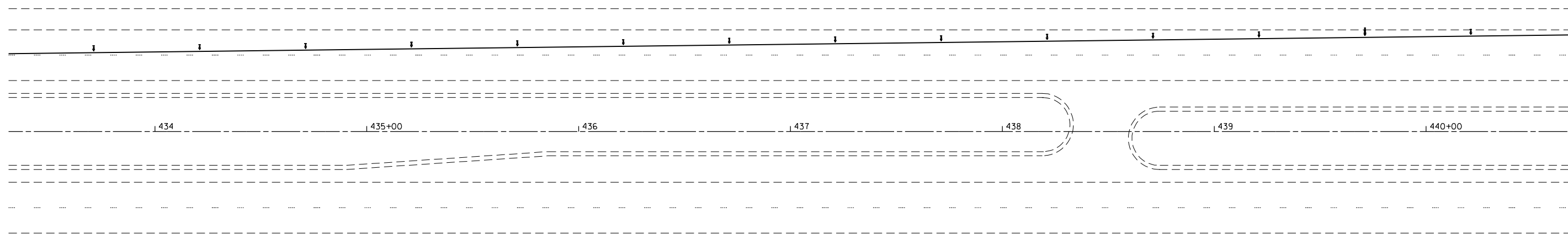
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN VIEW
STAGE 1

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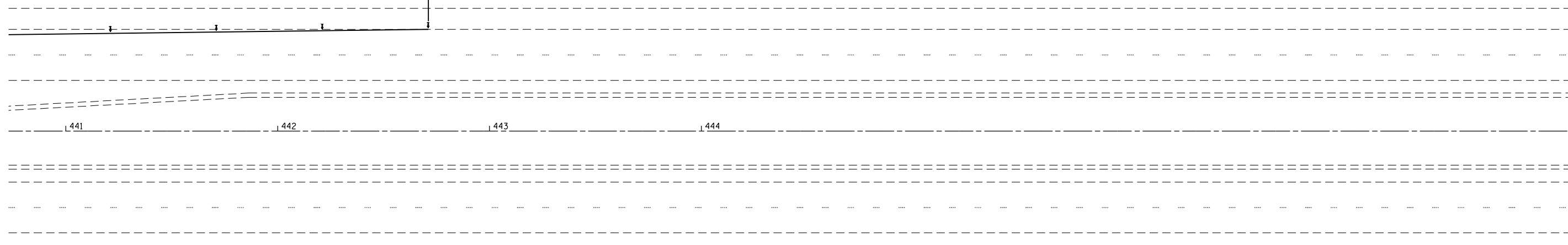
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CONTRACT NO. 74B28				
ILLINOIS FED. AID PROJECT				

SOUTH BOUND US 51



NORTH BOUND US 51

SOUTH BOUND US 51



NORTH BOUND US 51

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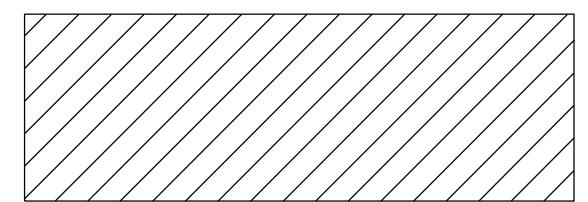
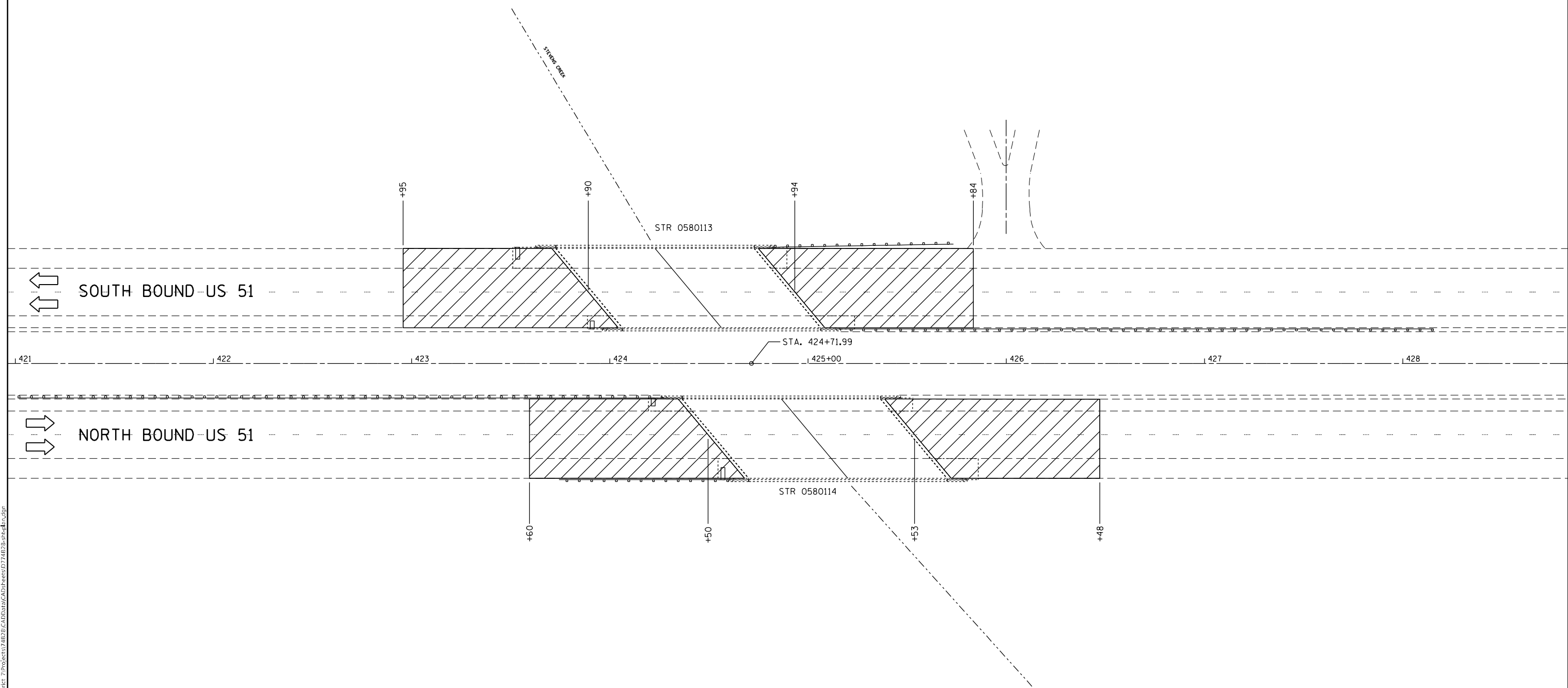
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PLAN VIEW
STAGE 1**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 74B28	
ILLINOIS FED. AID PROJECT				

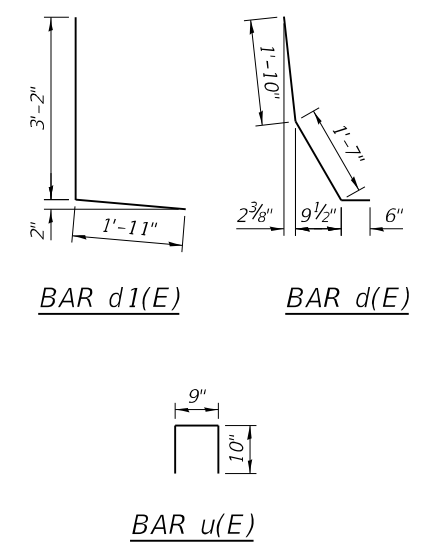
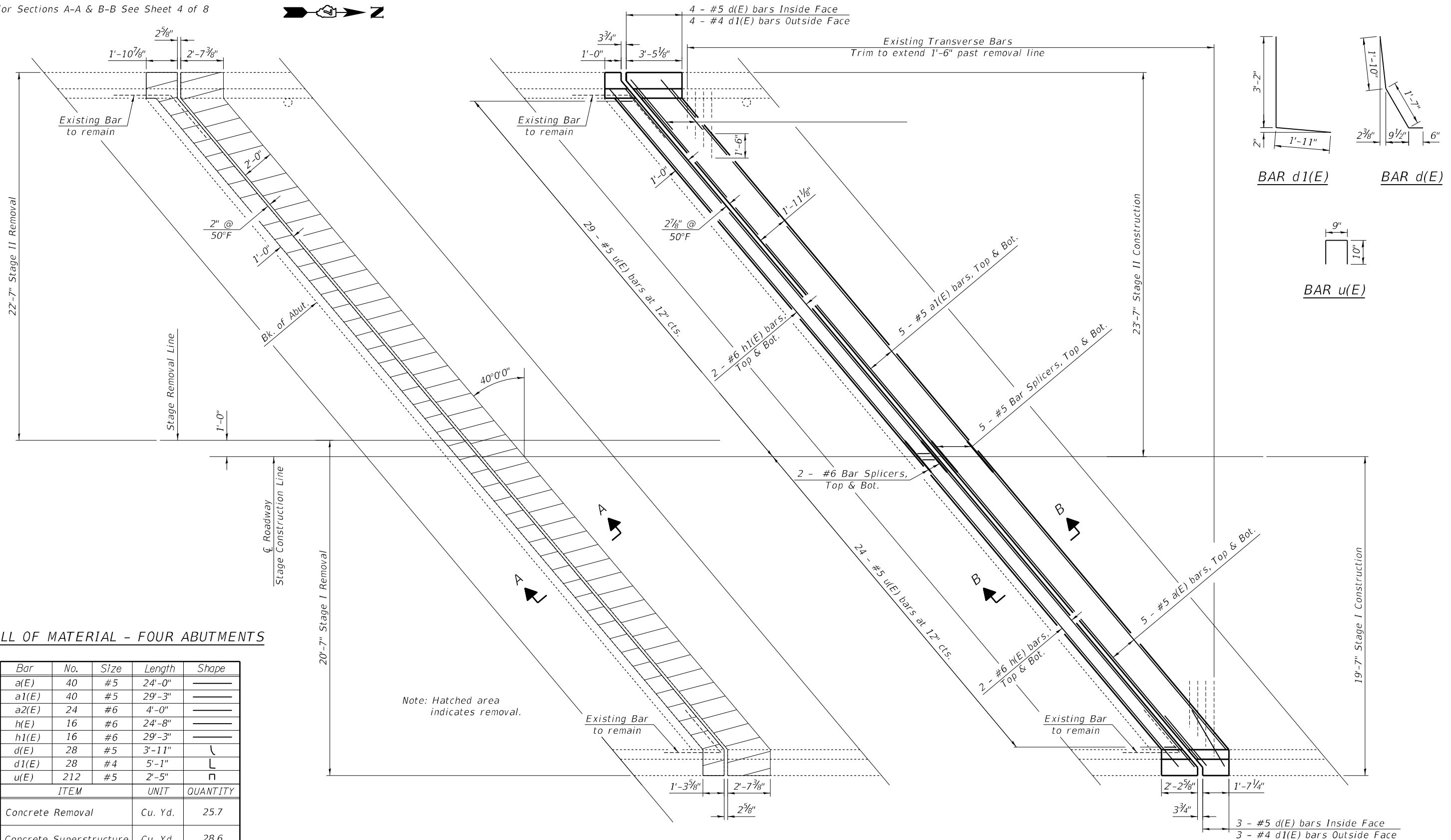
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PROPOSED PAVING AREA

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	DATE -	REVISED -								ILLINOIS FED. AID PROJECT	

For Sections A-A & B-B See Sheet 4 of 8



BILL OF MATERIAL - FOUR ABUTMENTS

Bar	No.	Size	Length	Shape
a(E)	40	#5	24'-0"	—
a1(E)	40	#5	29'-3"	—
a2(E)	24	#6	4'-0"	—
h(E)	16	#6	24'-8"	—
h1(E)	16	#6	29'-3"	—
d(E)	28	#5	3'-11"	L
d1(E)	28	#4	5'-1"	L
u(E)	212	#5	2'-5"	U
ITEM	UNIT	QUANTITY		
Concrete Removal	Cu. Yd.	25.7		
Concrete Superstructure	Cu. Yd.	28.6		
Reinforcement Bars, Epoxy Coated	Pound	4,410		
Bar Splicers	Each	56		

Note: Hatched area indicates removal.

REMOVAL PLAN

058-0113 South Abutment Shown
 058-0113 North Abutment Similar by Rotation
 058-0114 Joints Similar

REINFORCEMENT PLAN

058-0113 South Abutment Shown
 058-0113 North Abutment Similar by Rotation
 058-0114 Joints Similar

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	DATE - April 2023	REVISED -

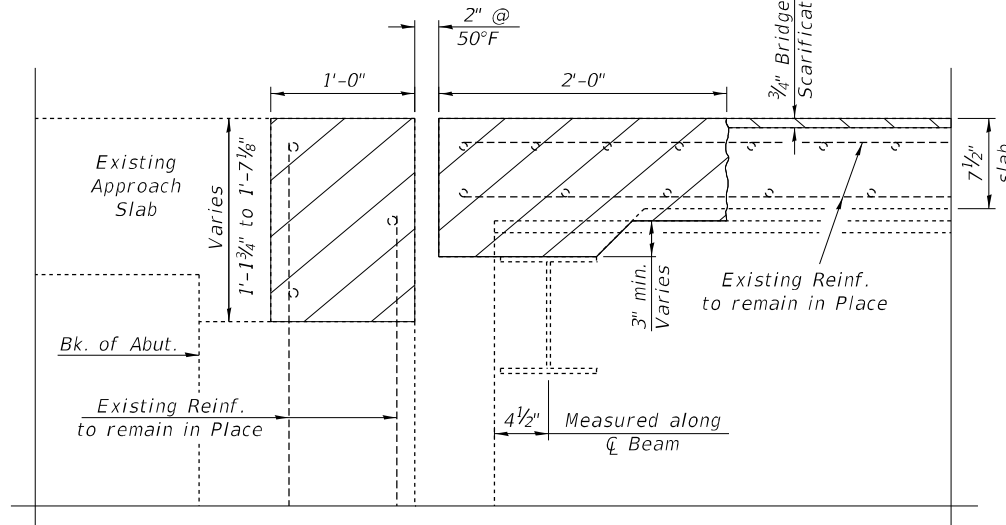
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EXPANSION JOINT REPLACEMENT DETAILS
 S.N. 058-0113 SBL & 058-0114 NBL**

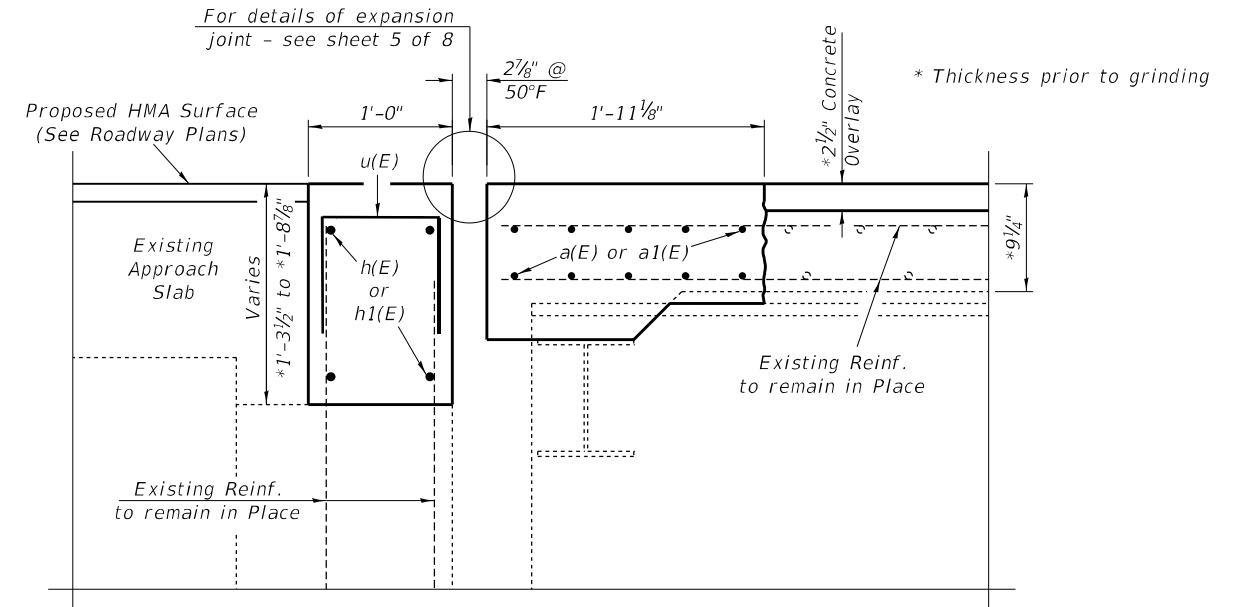
SCALE: SHEET 3 OF 8 SHEETS STA. TO STA.

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ILLINOIS FED. AID PROJECT			CONTRACT NO. 74B28	

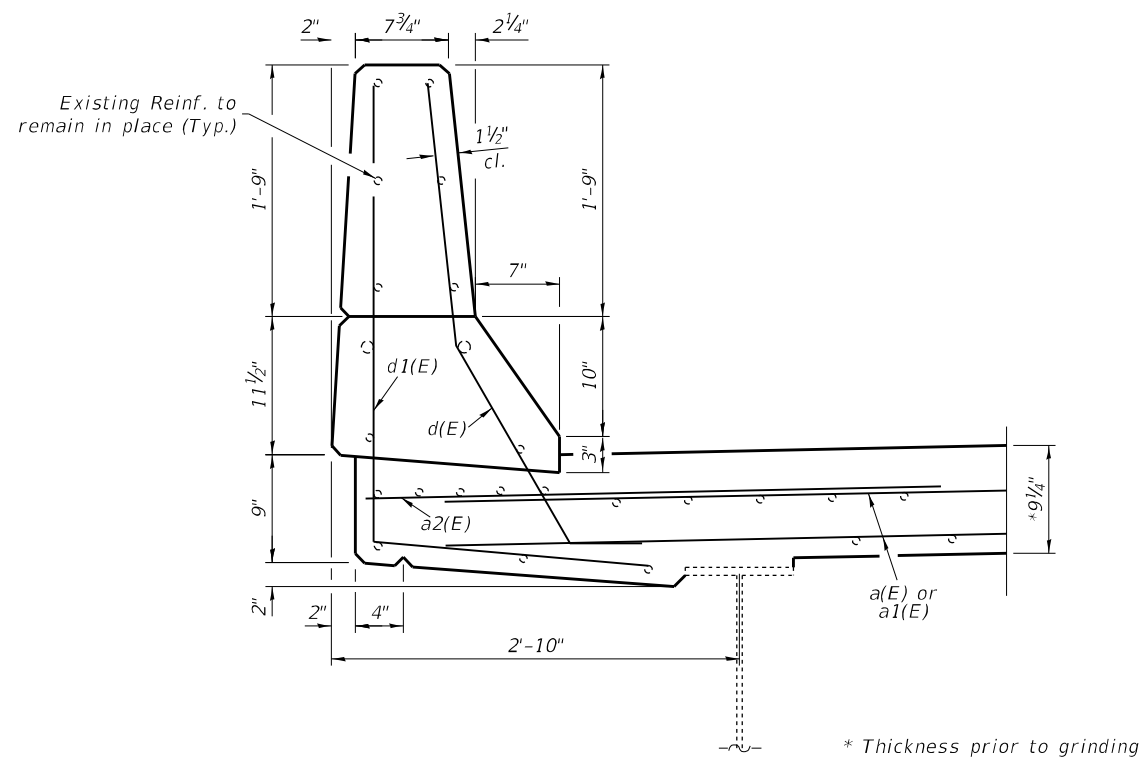
Note: Hatched areas indicate removal



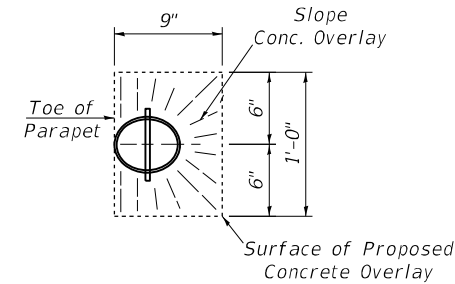
SECTION A-A



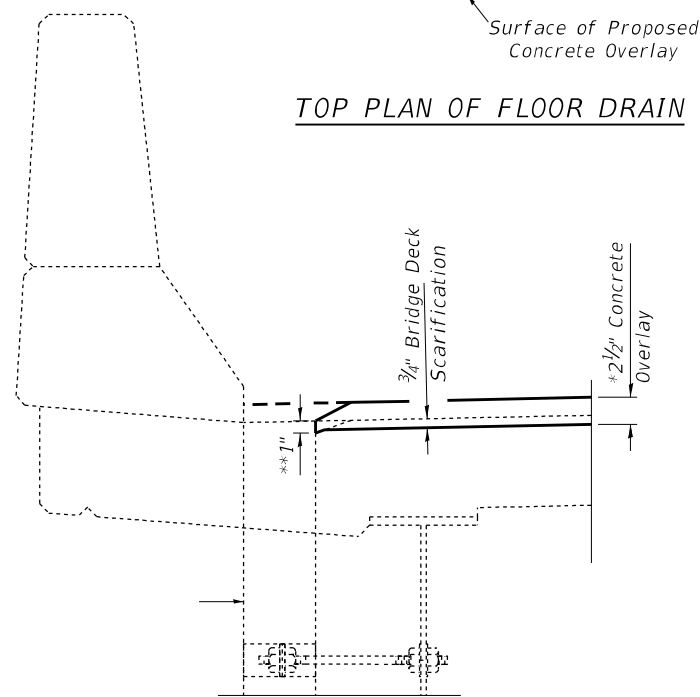
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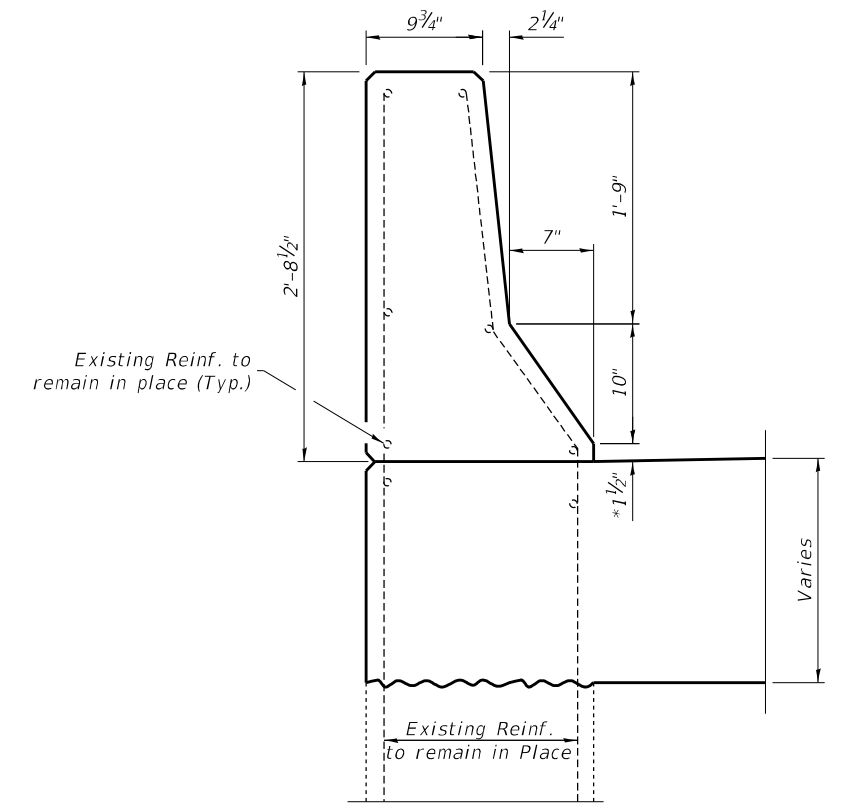
SECTION THRU DECK PARAPET



TOP PLAN OF FLOOR DRAIN



FLOOR DRAIN PRESERVATION



SECTION THRU APPROACH PARAPET

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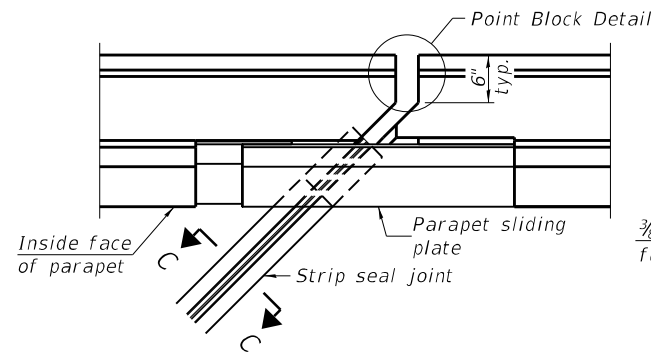
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	DATE - April 2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

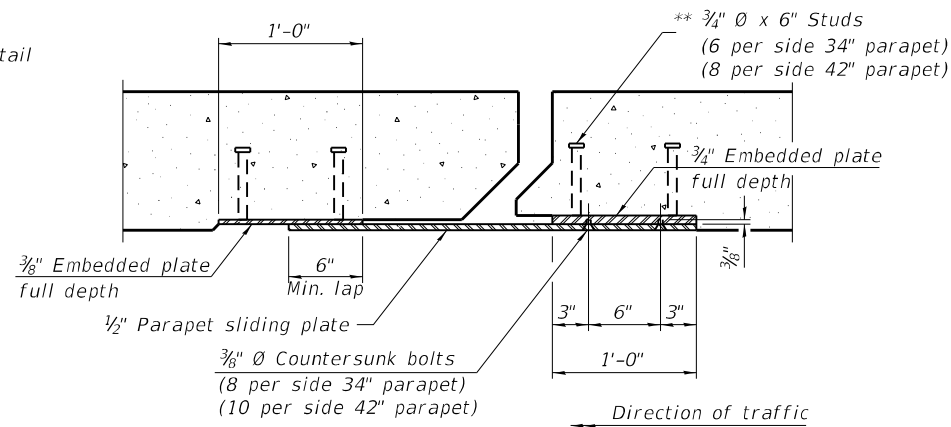
EXPANSION JOINT REPLACEMENT DETAILS
S.N. 058-0113 SBL & 058-0114 NBL

SCALE: SHEET 4 OF 8 SHEETS STA. TO STA.

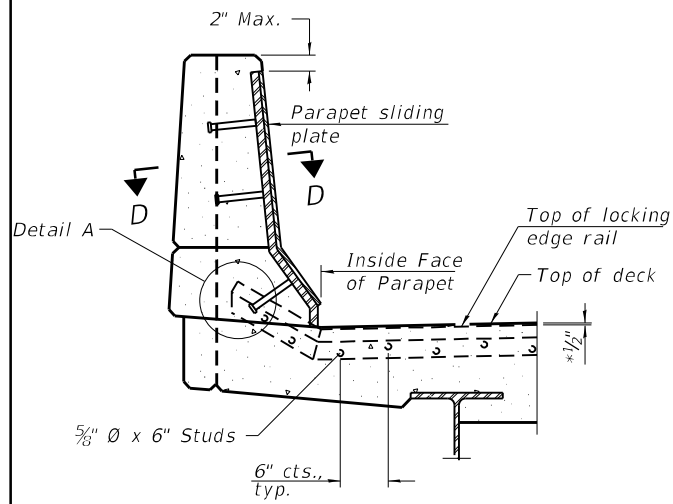
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CONTRACT NO. 74B28				
ILLINOIS FED. AID PROJECT				



PLAN AT PARAPET

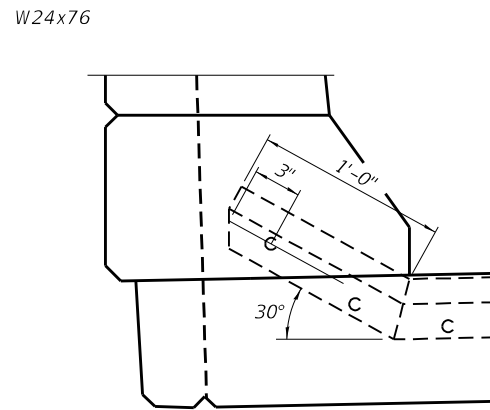


SECTION D-D

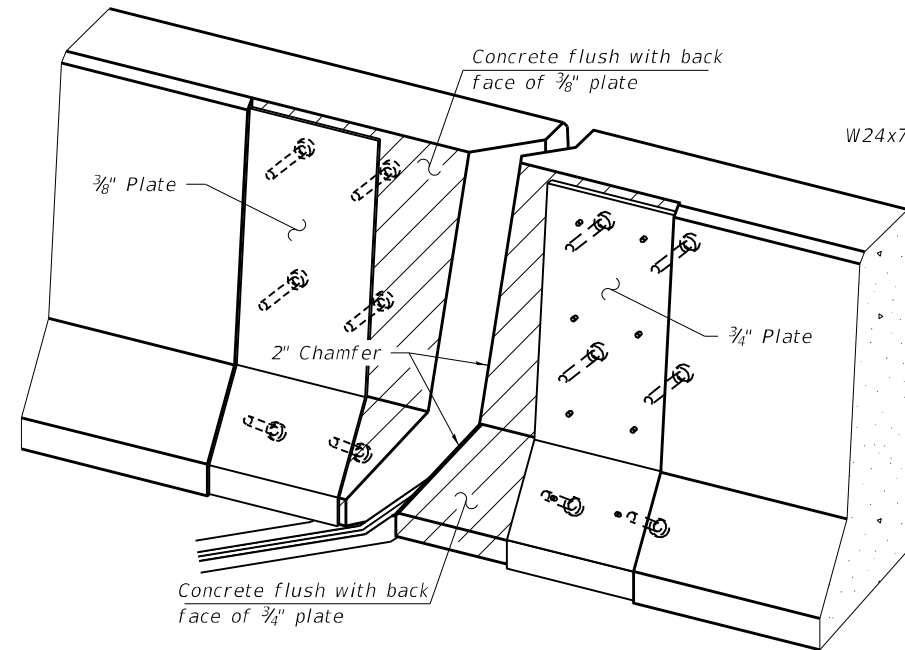


ELEVATION AT PARAPET

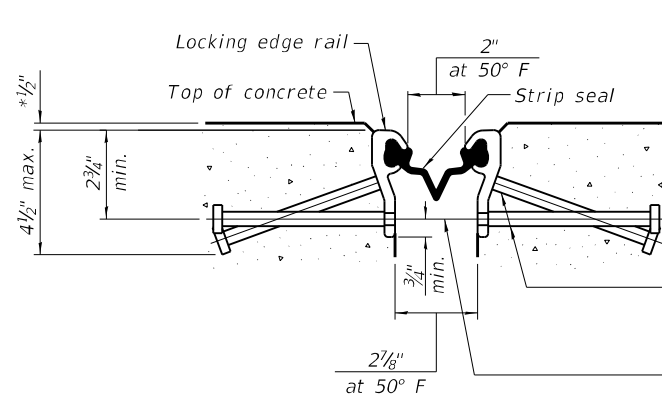
(Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)



DETAIL A



TRIMETRIC VIEW
(Showing embedded plates only)



SHOWING ROLLED RAIL JOINT

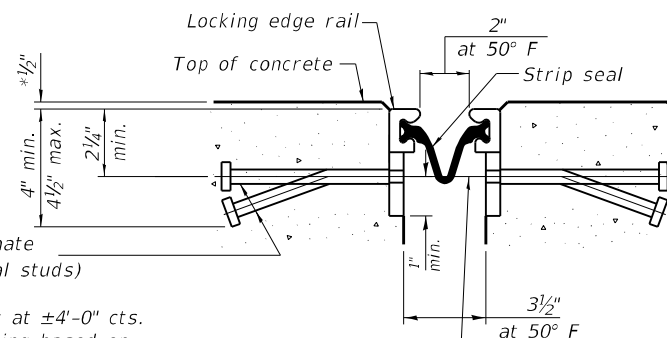
* Thickness prior to grinding

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

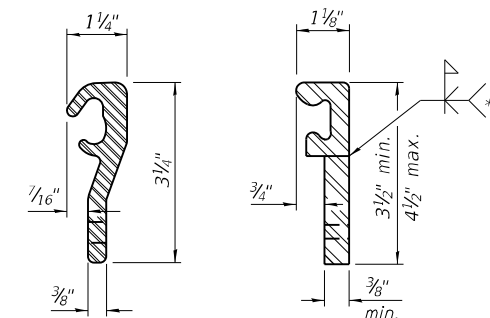
3/8" Ø threaded rods in 7/16" Ø holes at ±4'-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION C-C

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

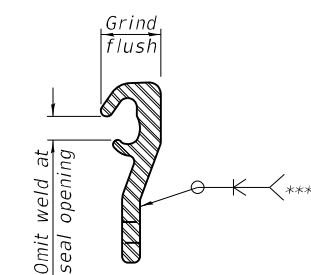


SHOWING WELDED RAIL JOINT



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	217

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.

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

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.

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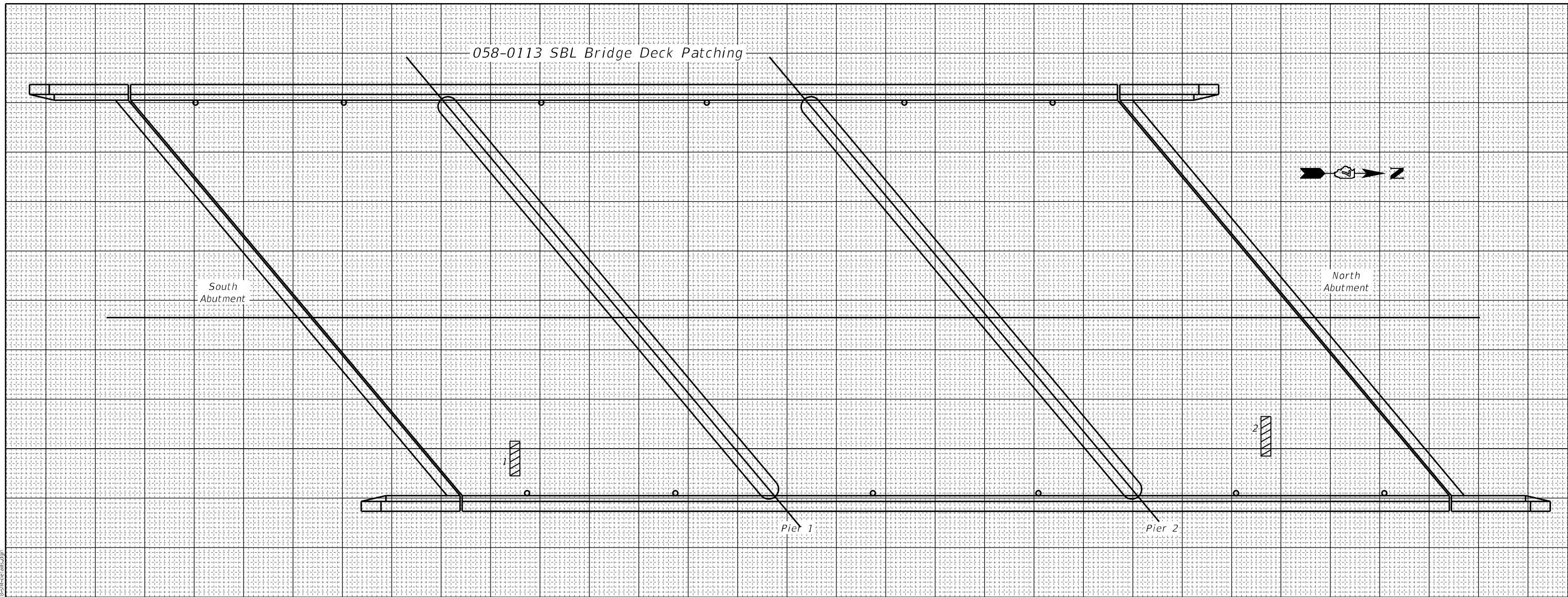
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
S.N. 058-0113 SBL & 058-0114 NBL

SCALE: SHEET 5 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	D7 BRIDGE REPAIRS 2024-2	MACON	31	23
			CONTRACT NO. 74B28	
ILLINOIS FED. AID PROJECT				

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PATCH NO.	SIZE		DECK SLAB REPAIR (FD TY I)	DECK SLAB REPAIR (FD TY II)
	LENGTH	WIDTH	SQ YD	SQ YD
1	1.0	3.5	0.4	
2	1.0	4.0	0.4	
TOTAL ROUNDS TO:			1.0	0

THE LOCATIONS AND SIZES SHOWN GRAPHICALLY ABOVE ARE APPROXIMATE. SEE THIS TABLE FOR ACTUAL SIZES.



DATE OF SURVEY: 1-17-2023
 SURVEY BY: DPM & TMW
 METHOD OF SURVEY: VISUAL

ESTIMATED PAY QUANTITIES:
 DECK SLAB REPAIR (FULL DEPTH TYPE I)
 1.0 SQ YD

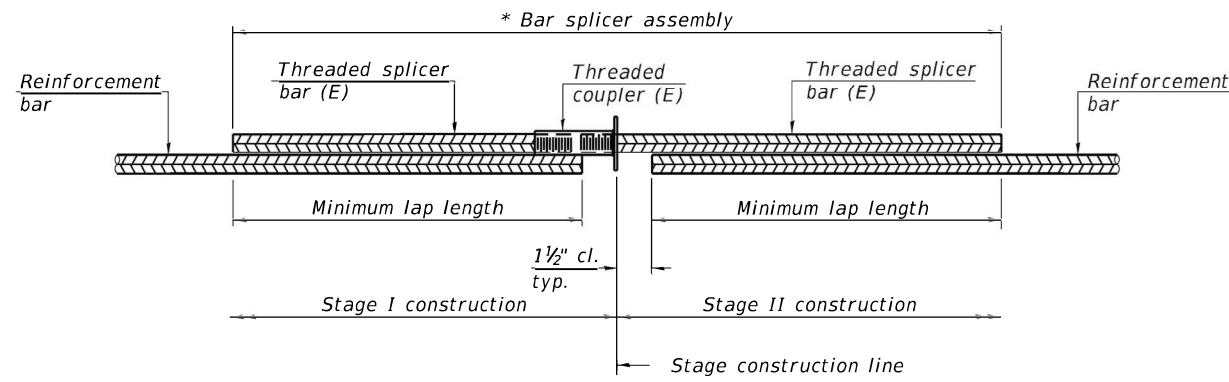
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PLOT DATE = 10/20/2023	DATE - April 2023	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE DECK PATCHING
 SN. 058-0113 SBL**

SCALE: SHEET 6 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	D7 BRIDGE REPAIRS 2024-2	MACON	31	24
CONTRACT NO. 74B28				
ILLINOIS FED. AID PROJECT				

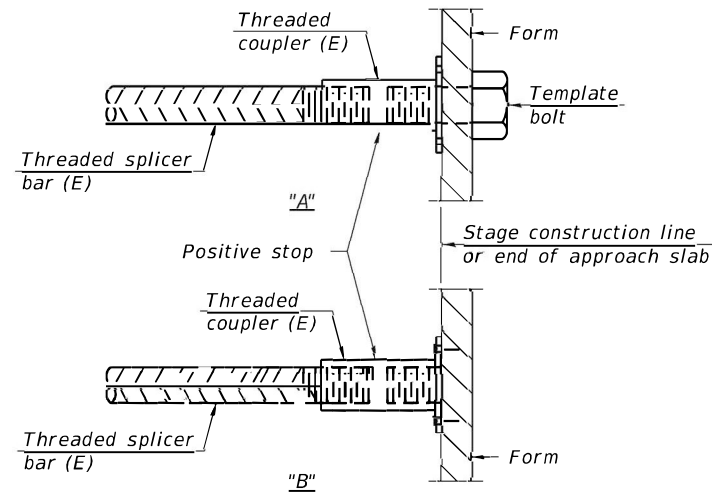


STANDARD BAR SPLICER ASSEMBLY PLAN
 (All components shall be provided from one supplier)

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	40	3'-6"
Abutment	#6	16	4'-0"

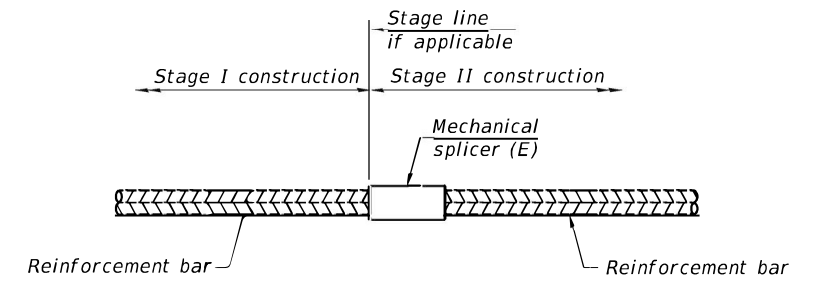


INSTALLATION AND SETTING METHODS

"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.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

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.

BSD-1

1-1-2020

MODEL: Default
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	DRAWN - T. Walk	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - D. Macklin	REVISED -
PLOT DATE = 10/20/2023	DATE - February 2023	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

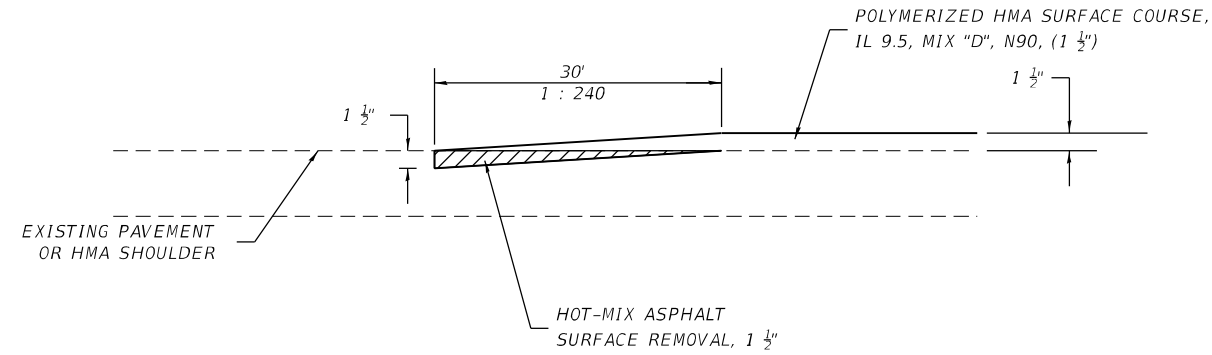
BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
S.N. 058-0113 SBL & 058-0114 NBL

SCALE: SHEET 8 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	D7 BRIDGE REPAIRS 2024-2	MACON	31	26
ILLINOIS F.E.D. AID PROJECT			CONTRACT NO. 74B28	

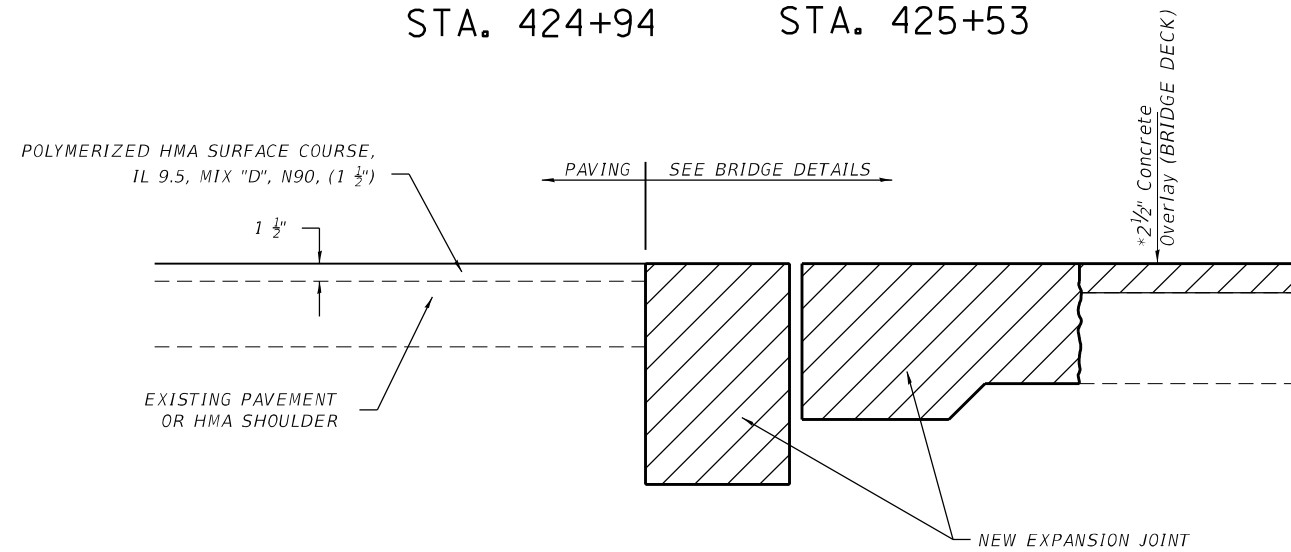
BUTT JOINT DETAILS

SOUTHBOUND NORTHBOUND
 STA. 422+95 STA. 423+60
 STA. 425+84 STA. 426+48



BUTT JOINT DETAILS

SOUTHBOUND NORTHBOUND
 STA. 423+90 STA. 424+50
 STA. 424+94 STA. 425+53



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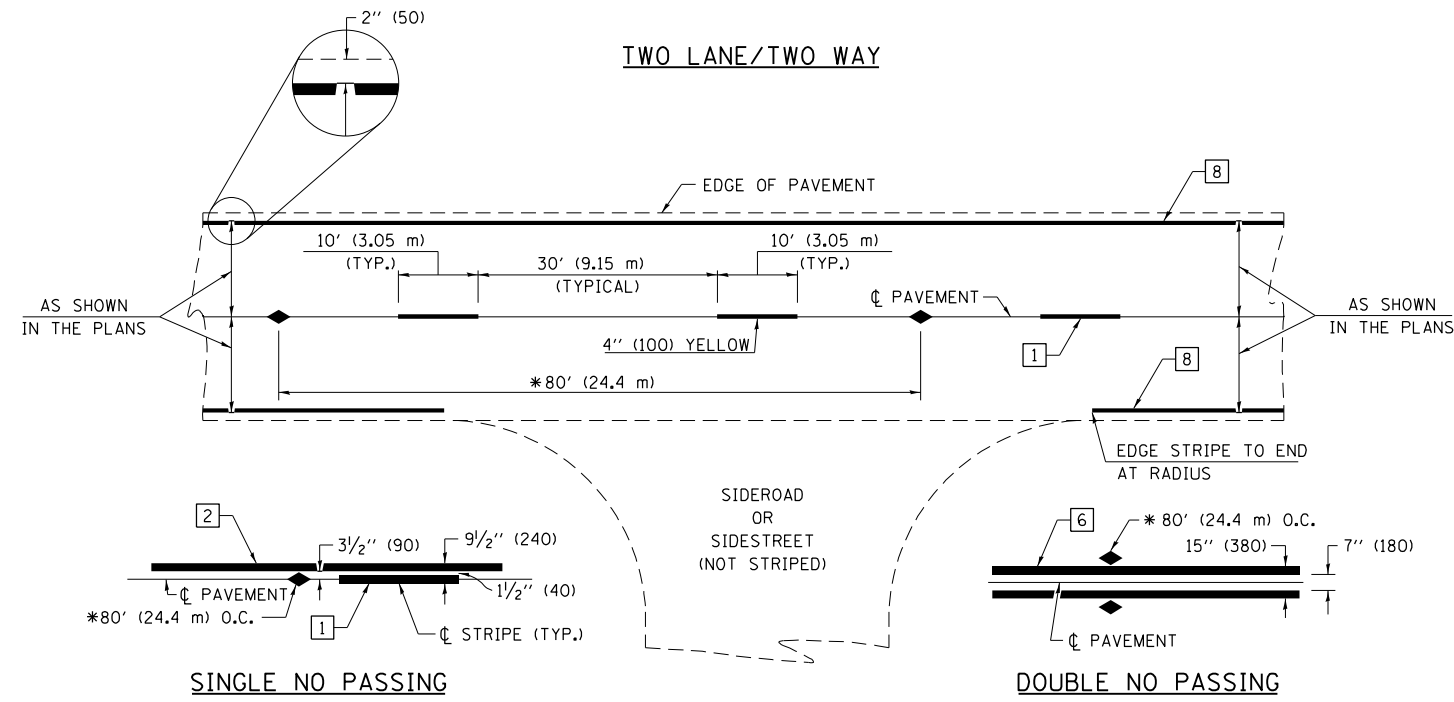
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PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/20/2023	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PAVING JOINT DETAILS

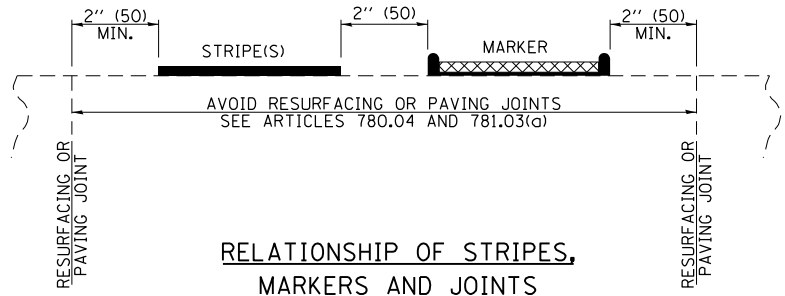
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	D7 BRIDGE REPAIRS 2024-2	MACON	31	27
			CONTRACT NO. 74B28	
ILLINOIS FED. AID PROJECT				



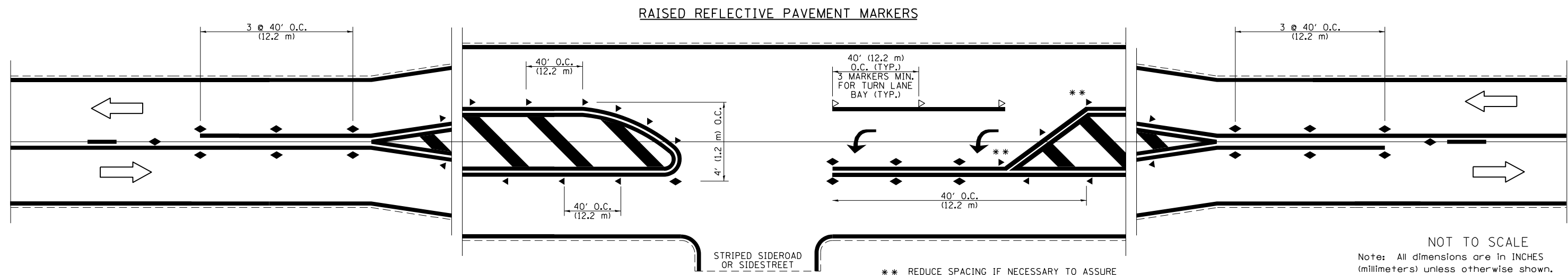
PAVEMENT MARKING LEGEND

- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 12" (300) SOLID WHITE
- 6 4" (100) DOUBLE YELLOW (WIDE)
- 7 6" (150) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) PARKING WHITE



TYPICAL PAVEMENT MARKERS LEGEND

- ◆ TWO-WAY AMBER MARKER
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER



NOT TO SCALE
 Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

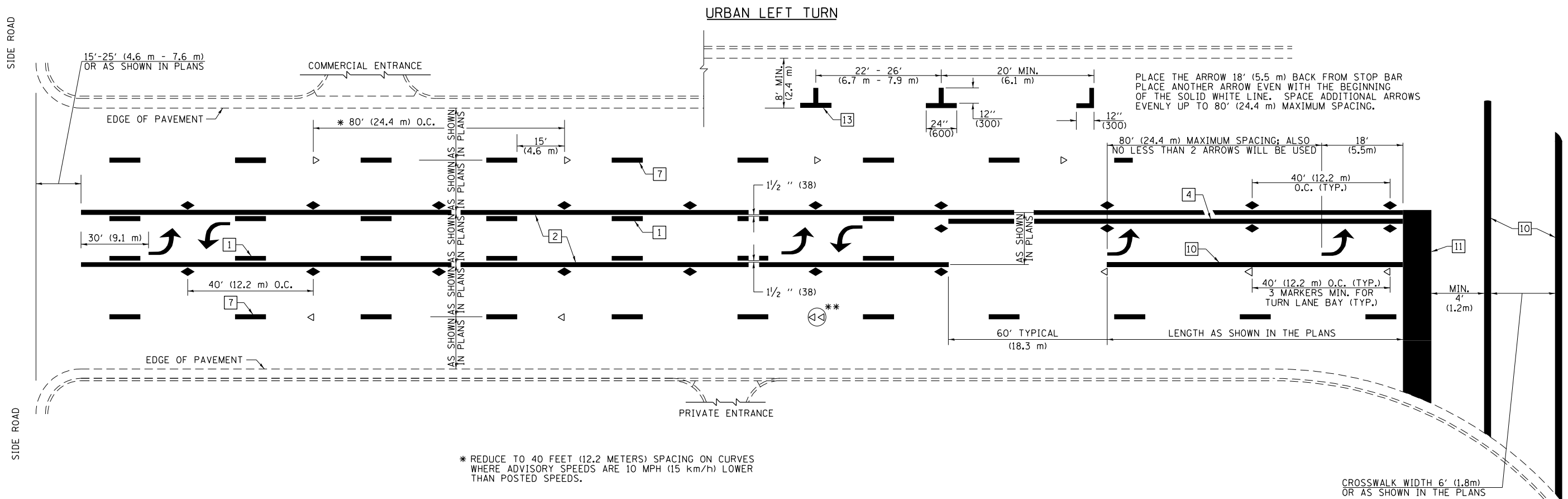
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PLOT DATE = 10/20/2023			

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS
 (RURAL & URBAN APPLICATIONS)

DISTRICT 7 DETAIL NO. 78000001				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	D7 BRIDGE REPAIRS 2024-2	MACON	31	28
CONTRACT NO. 74828				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET NO. 1 OF 4 SHEETS STA. TO STA.



* REDUCE TO 40 FEET (12.2 METERS) SPACING ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

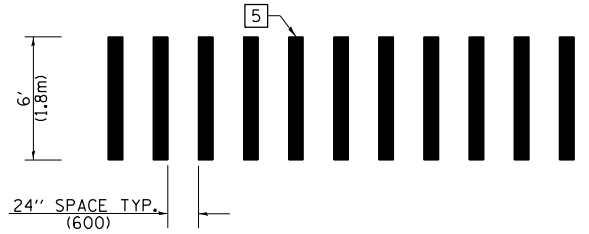
** DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED AND SPACED AS SHOWN IN HIGHWAY STANDARD 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED HIGHWAYS.

PAVEMENT MARKING LEGEND

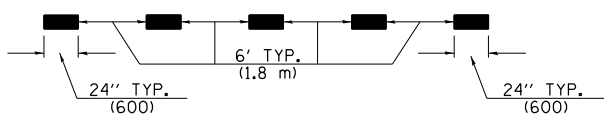
- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 12" (300) SOLID WHITE
- 6 4" (100) DOUBLE YELLOW (WIDE)
- 7 6" (150) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) PARKING WHITE

GENERAL NOTES

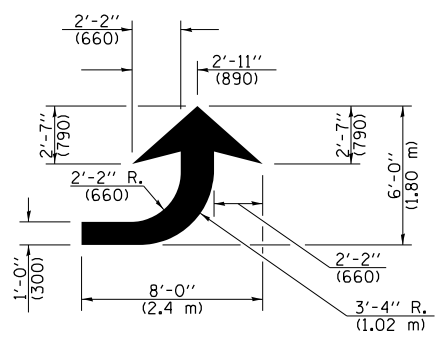
1. TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE. USE A MINIMUM OF TWO PAIRS PER BLOCK.
2. THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.
3. THE SKIP-DASH PAVEMENT MARKINGS [1] OR [7] SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER.
4. USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE SECTION 780 FOR SYMBOLS TABLE)
5. LANE LINE EXTENSIONS SHALL BE THE SAME COLOR AND WIDTH AS THE LANE LINE BEING EXTENDED.
6. ALL WHITE SKIP-DASH LINES SHALL BE 6" IN WIDTH.



**CROSSWALK DETAIL
(DECATUR CITY LIMITS ONLY)**

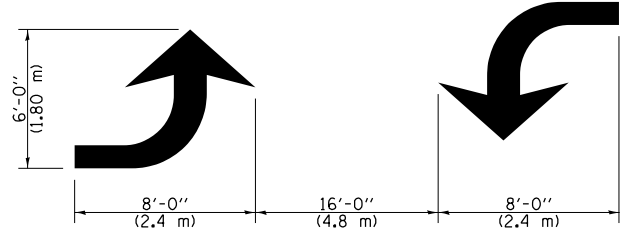


LANE LINE EXTENSIONS



LEFT ARROW

REVERSE FOR RIGHT ARROW
AREA = 15.6 SQ. FT. (1.47 m²)
(WHITE)



**TYPICAL DOUBLE
TURN ARROWS (WHITE)**

NOT TO SCALE

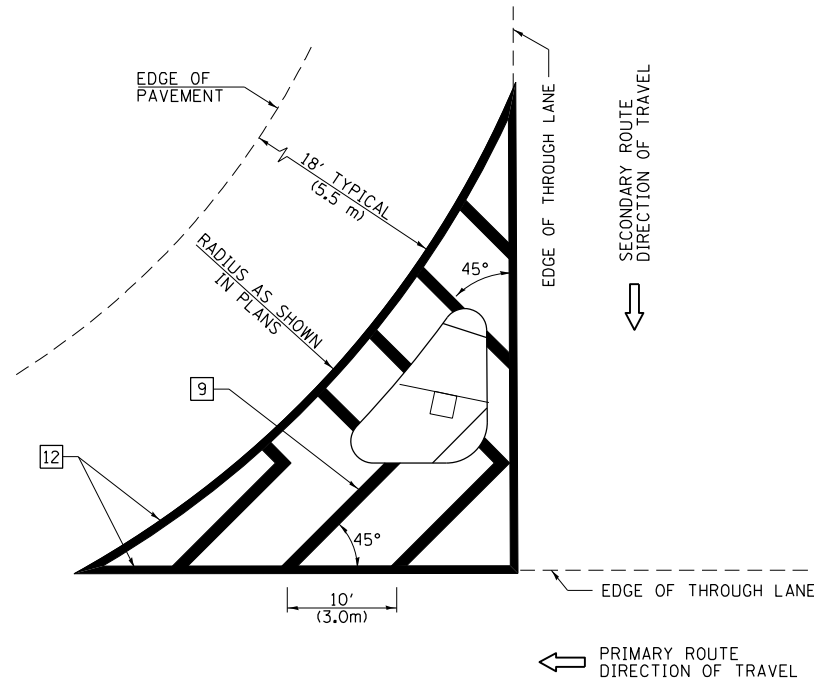
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 78000001

FILE NAME =	USER NAME = Mono.Steffen	DESIGNED -	REVISED - NAS 06/22	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL & URBAN APPLICATIONS)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\idot-pw\bentley.com\PWIDOT\Documents\IDOT Offices\District 7\Projects\74B28\CADD\Drawings\Drawings\74B28-shd-details.dgn	DRAWN	CHECKED -	REVISED -			322	D7 BRIDGE REPAIRS 2024-2	MACON	31	29	
PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED -	REVISED -			CONTRACT NO. 74B28					
PLOT DATE = 10/20/2023	DATE -	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT					

ISLANDS

OPTION 1

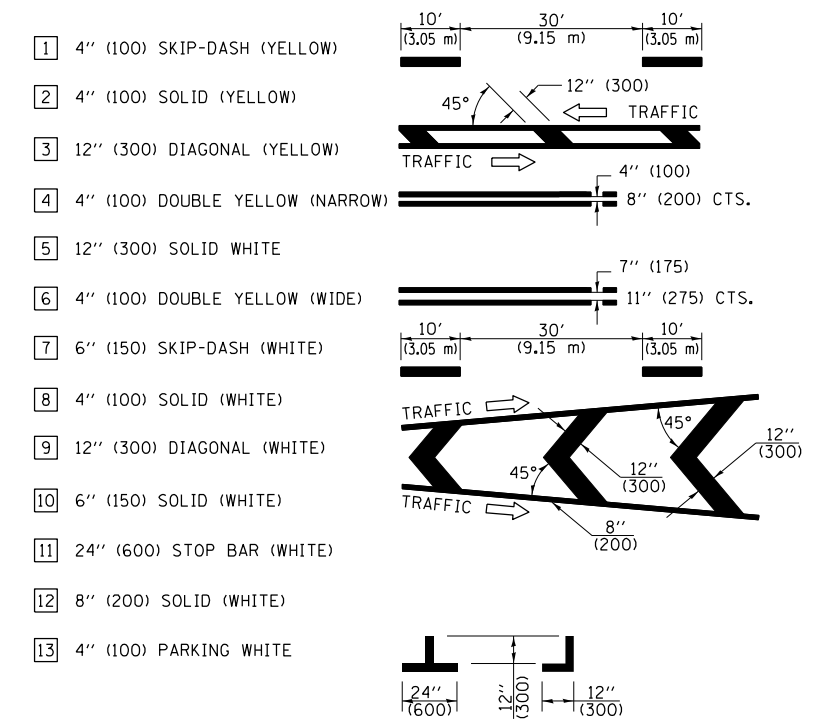


GENERAL NOTES

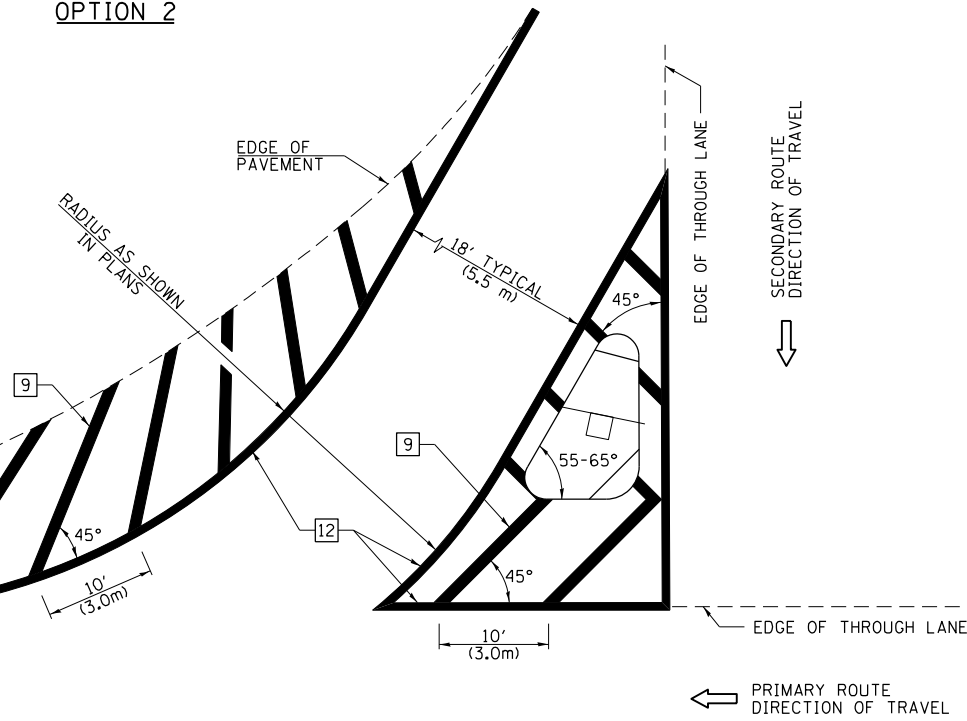
1. RAISED AND CORRUGATED MEDIANS SHALL BE OUTLINED WITH [2].
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
5. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING:

< 30 MPH (< 50 km/h)	15' (4.5 m)
30-45 MPH (50-75 km/h)	20' (6.0 m)
> 45 MPH (> 75 km/h)	30' (9.0 m)
6. THE USE OF ISLAND STRIPING OPTION 1 OR OPTION 2 SHALL BE AS SHOWN ON THE PLANS.

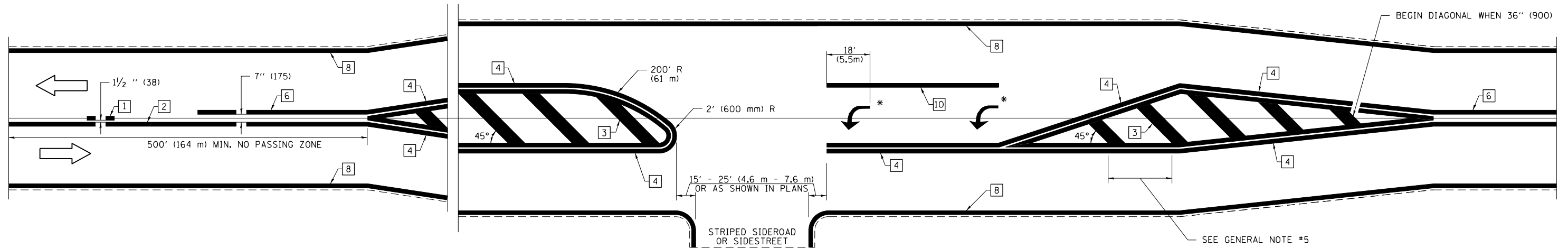
PAVEMENT MARKING LEGEND



OPTION 2



RURAL LEFT TURN STRIPING



* PLACE AN ARROW 18' (5.5 m) BACK FROM END OF THE SOLID WHITE LINE. PLACE ANOTHER ARROW EVEN WITH THE BEGINNING OF THE SOLID WHITE LINE. SPACE ADDITIONAL ARROWS EVENLY UP TO 80' (24.4 m) MAXIMUM SPACING. USE MINIMUM OF 2 ARROWS.

NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 7800001

FILE NAME =	USER NAME = Mono.Steffen	DESIGNED -	REVISED - NAS 06/22
p:\idot-pw\bentley.com\PWIDOT\Documents\IDOT Offices\District 7\Projects\74828\CADD\Drawings\Drawings\74828-shd-details.dgn		CHECKED -	REVISED -
PLOT SCALE = 100.0000' / 1"		DATE -	REVISED -
PLOT DATE = 10/20/2023			

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS
(RURAL & URBAN APPLICATIONS)**

SCALE: SHEET NO. 3 OF 4 SHEETS STA. TO STA.

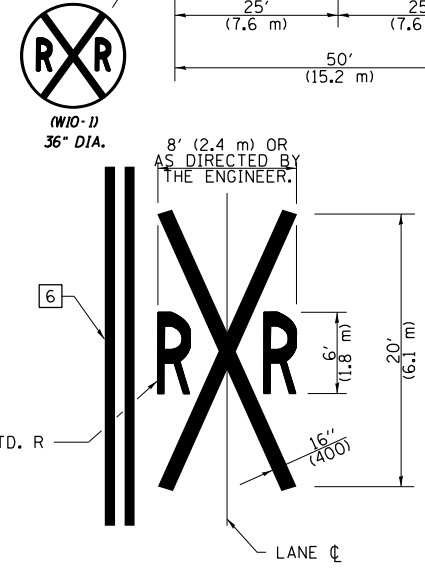
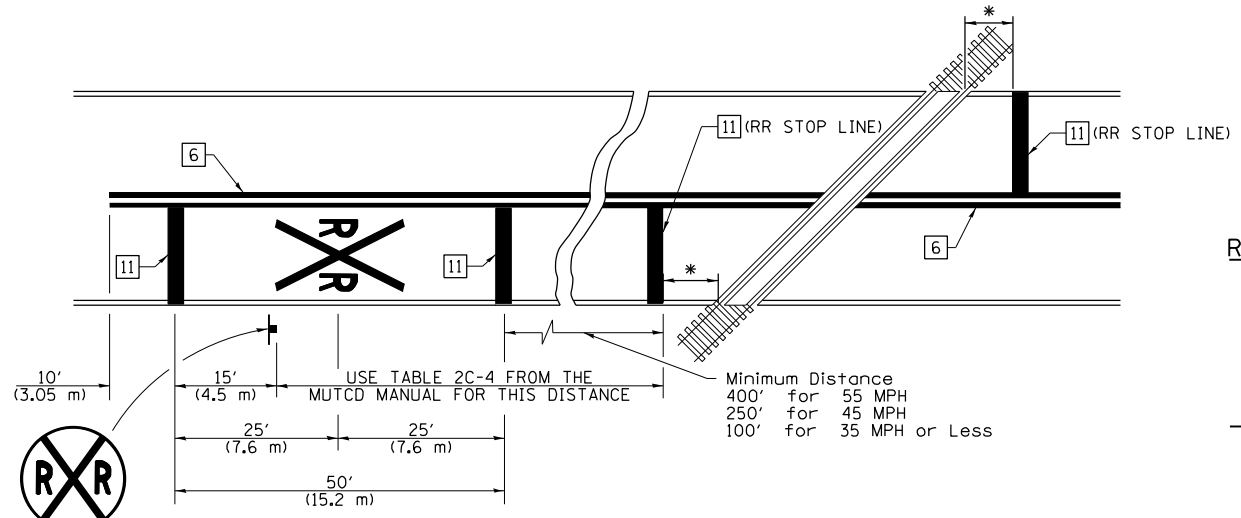
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	D7 BRIDGE REPAIRS 2024-2	MACON	31	30
CONTRACT NO. 74828				
ILLINOIS FED. AID PROJECT				

SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

PAVEMENT MARKING LEGEND

- 1 4" (100) SKIP-DASH (YELLOW)
 - 2 4" (100) SOLID (YELLOW)
 - 3 12" (300) DIAGONAL (YELLOW)
 - 4 4" (100) DOUBLE YELLOW (NARROW)
 - 5 12" (300) SOLID WHITE
 - 6 4" (100) DOUBLE YELLOW (WIDE)
 - 7 6" (150) SKIP-DASH (WHITE)
 - 8 4" (100) SOLID (WHITE)
 - 9 12" (300) DIAGONAL (WHITE)
 - 10 6" (150) SOLID (WHITE)
 - 11 24" (600) STOP BAR (WHITE)
 - 12 8" (200) SOLID (WHITE)
 - 13 4" (100) PARKING WHITE
-

PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING



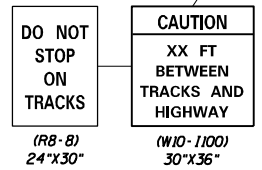
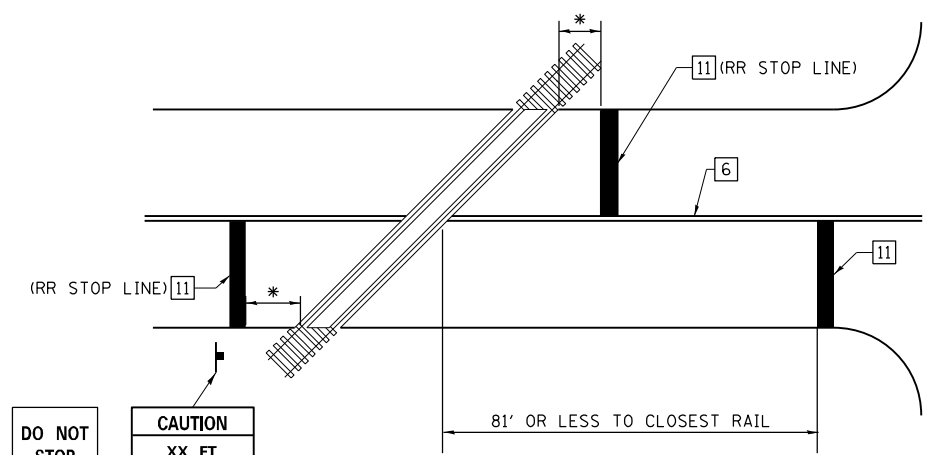
NOTES

THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.

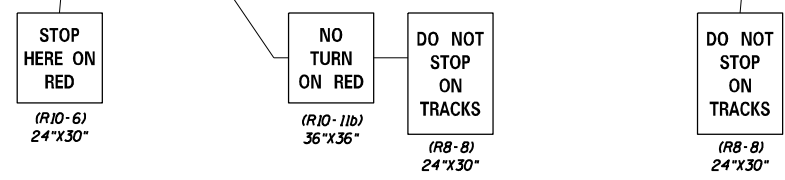
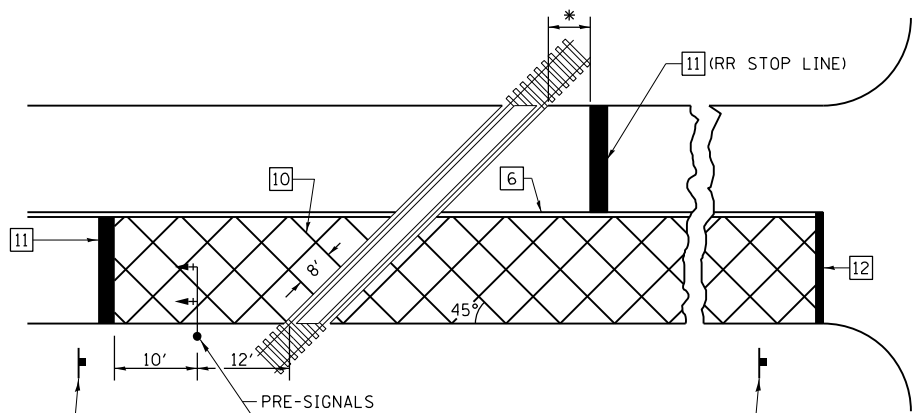
ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RRR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.

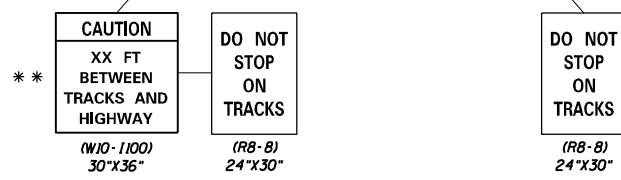
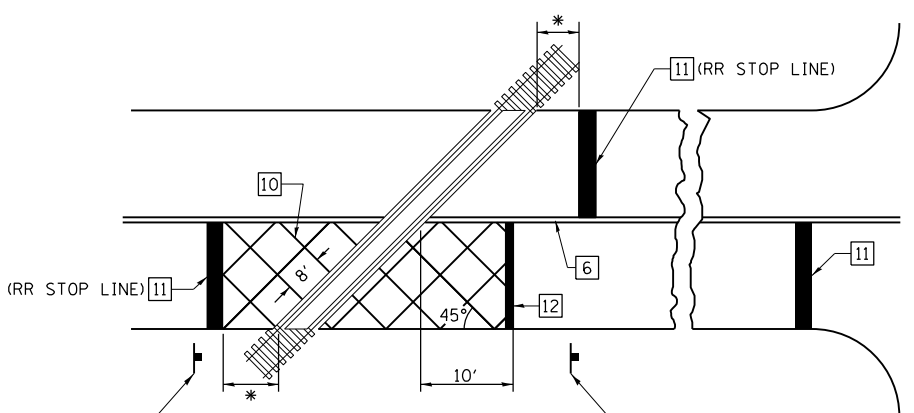
RAILROAD CROSSING WITH NON-SIGNALIZED INTERSECTION



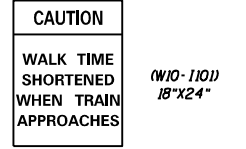
RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



RAILROAD CROSSING WITH INTERCONNECT ONLY



- ### GENERAL NOTES
- SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
 - EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE PRE-SIGNALS ARE USED.
 - WHEN PEDESTRIAN SIGNALS ARE PRESENT WITH INTERCONNECTED SIGNALS, WARNING SIGN W10-1101 (18"X24") SHALL BE PLACED NEAR EACH PEDESTRIAN SIGNAL HEAD. COUNTDOWN PEDESTRIAN SIGNAL HEADS SHALL NOT BE UTILIZED ALONG WITH INTERCONNECTED SIGNALS.
 - PLEASE REFER TO THE IDOT BUREAU OF OPERATION MEMO OPS T-06 DATED DECEMBER 1, 2020 FOR ADDITIONAL INFORMATION.



- * 15' FROM NEAR RAIL OR 8' FROM AND PARALLEL TO GATE IF PRESENT
- ** WARNING SIGN W10-1100 SHALL BE USED AS AN INTERIM MEASURE AT INTERCONNECTED SIGNAL LOCATIONS WHERE PRE-SIGNALS ARE TO BE INSTALLED IN THE FUTURE. THIS SIGN SHALL BE REMOVED WHEN THE PRE-SIGNALS ARE INSTALLED AND THE PAVEMENT MARKINGS ARE EXTENDED TO THE INTERSECTION.

NOT TO SCALE
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 78000001

FILE NAME =	USER NAME = Mono.Steffen	DESIGNED -	REVISED - NAS 06/22	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL & URBAN APPLICATIONS)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 10/20/2023	DATE -	REVISED -	REVISED -			CONTRACT NO. 74B28				
						ILLINOIS FED. AID PROJECT				