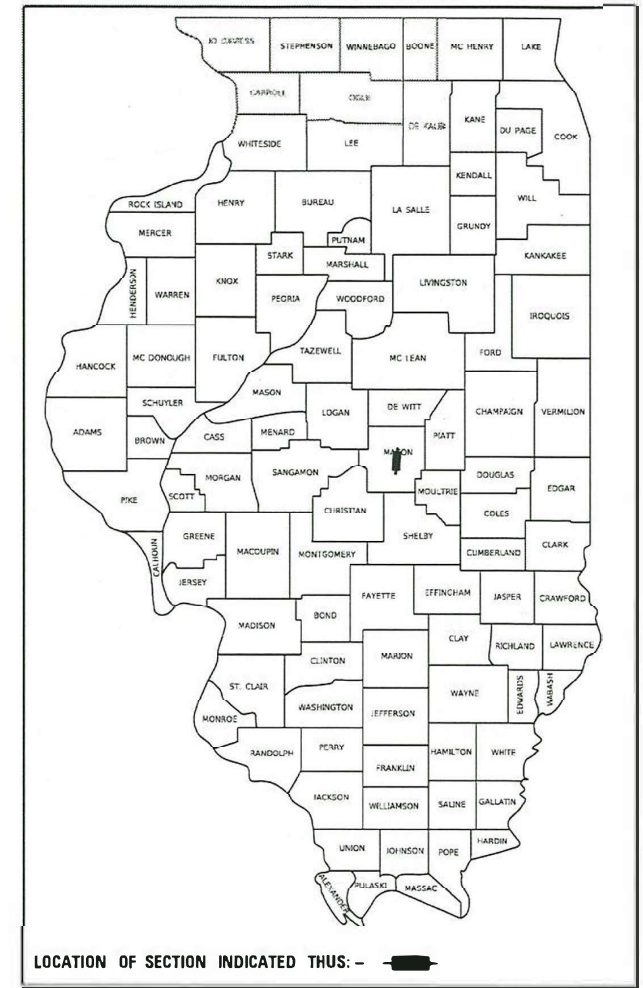


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	1
		ILLINOIS	CONTRACT NO. 74780	

D-97-003-17



# PROPOSED HIGHWAY PLANS

FAP ROUTE 710 (OLD US 51 BUS)  
SECTION (48X-1, 48X-2)RS-2(128)RS-3  
PROJECT NHPP-L9IJ(020)  
RESURFACING & BRIDGE REPAIR  
MACON COUNTY

FOR INDEX OF SHEETS, SEE SHEET NO. 2

ADT = 7800 (2020)

**STATION EQUATIONS:**

65 + 77.80/62 + 77.05 BK = 461 + 19.31 AH  
665 + 94.72 BK = 637 + 15.81 AH  
653 + 71.87 BK = 95 + 95.55 AH  
686 + 90.61 BK = 999 + 97.11 AH  
1015 + 20.00 BK = 1017 + 42.30 AH

**BRIDGE OMISSIONS:**

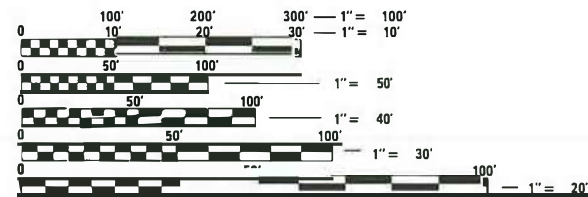
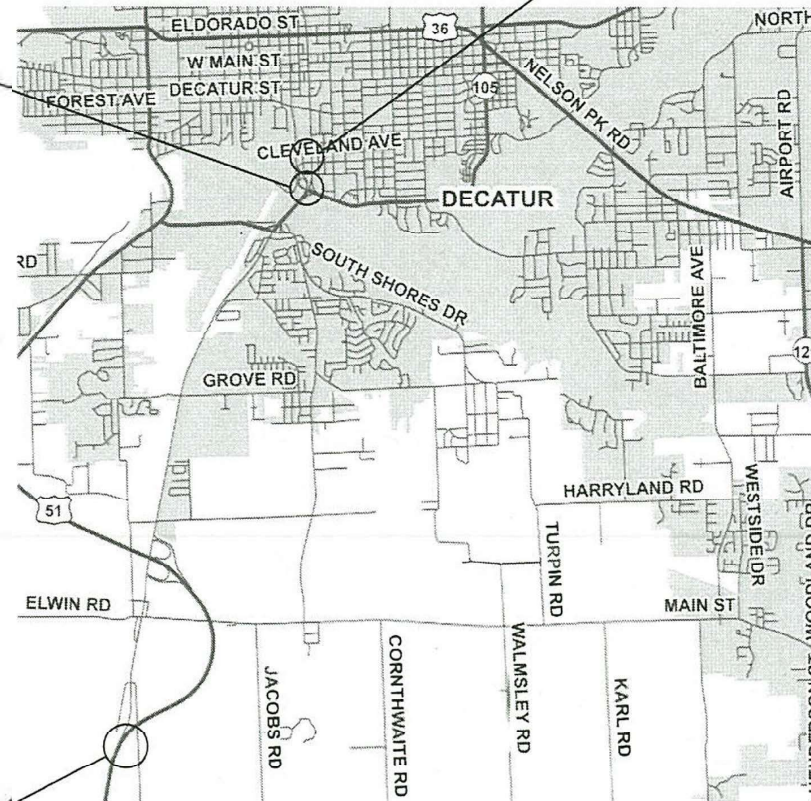
STA 50+40 TO 53+85  
STA 681+96 TO 1000+11 (NB)  
STA 1005+80 TO 1007+62 (NB)  
STA 653+55 TO 100+45 (SB)  
STA 106+17 TO 108+15 (SB)

C-97-004-17

**PROJECT ENDS:**

1021 + 60.00 NB  
119 + 14.50 SB

SN 058-0007  
SN 058-0008



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: DEBRA BARRETT  
PROJECT MANAGER: JACQUELYN SEALS

**PROJECT BEGINS:**  
23 + 85.50 RAMP E  
38 + 12.00 RAMP F

GROSS LENGTH = 32,102.4 FT. = 6.08 MILE  
NET LENGTH = 32,102.4 FT. = 6.08 MILE

CONTRACT NO. 74780

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED April 7 20 22  
Jeffrey P. Myerles  
REGIONAL ENGINEER

May 13, 2022 [Signature]  
ENGINEER OF DESIGN AND ENVIRONMENT

May 13, 2022 [Signature]  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

## GENERAL NOTES

THIS PROJECT IS LOCATED ON FAP ROUTE 710 (OLD US 51 BUSINESS) IN MACON COUNTY FROM 1.9 MI SOUTH OF ELWIN RD TO CLEVELAND AVE IN DECATUR. THE WORK INCLUDED IN SECTION (48X-1,48X-2)RS-2(128)RS-3 CONSISTS OF MILLING, HOT-MIX ASPHALT RESURFACING, PAVEMENT MARKING, CURB, GUTTER, AND MEDIAN REPLACEMENT AND REPAIR, STRUCTURAL REPAIRS AND OVERLAY, DRAINAGE WORK, SHOULDERS, PAVEMENT PATCHING, TRAFFIC CONTROL, AND ANY OTHER WORK NECESSARY TO COMPLETE THIS PROJECT.

PATCH LOCATIONS ARE BASED OFF EXISTING STATIONING IN THE FIELD. THE ACTUAL LOCATIONS OF PAVEMENT PATCHING AND FINAL QUANTITIES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

RURAL / URBAN SPLIT AT STATION 482+60

MILLED LANE MUST BE COVERED IN BINDER BEFORE ADJACENT LANE IS MILLED.

ANY GRASS MEDIAN SURFACE DAMAGED DUE TO CONCRETE REPLACEMENT AROUND THE MEDIAN SURFACE WILL BE RESEED, COST INCLUDED IN CONCRETE CURB, TYPE B (SPECIAL), COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (VARIABLE WIDTH GUTTER FLAG) AND CONCRETE MEDIAN SURFACE, 4".

TEMPORARY ACCESS (ROAD) TO BE USED ON ELWIN RD AND RILEY RD WHEN SHOULDER IS MILLED AND BEFORE BINDER IS PLACED.

HOT-MIX ASPHALT SHOULDERS SURFACE SHALL MATCH INTO THE EXISTING SURFACE OF ENTRANCES.

WHEN APPLYING SHORT TERM PAVEMENT MARKINGS, TAPE SHALL BE USED ON THE SURFACE AND PAINT SHALL BE USED ON THE MILLED AND BINDER SURFACES.

GROOVING FOR LETTERS AND SYMBOLS SHALL BE IN THE SHAPE OF THE LETTER OR SYMBOL.

## INDEX OF SHEETS

SHEET NO.	ITEM
1	COVER SHEET
2	GENERAL NOTES, INDEX OF SHEETS & LIST OF STANDARDS
3-6	SUMMARY OF QUANTITIES
7-11	SCHEDULE OF QUANTITIES
12-19	TYPICAL SECTIONS
20-31	PLAN SHEETS
32-35	STAGE CONSTRUCTION
36-37	DRAINAGE PLAN
38-51	STRUCTURE PLANS SN 0058-0007
52-66	STRUCTURE PLANS SN 0058-0008
67	DETECTOR LOOPS
68-79	PAVEMENT MARKING DETAILS
80-81	PLAN DETAILS
82-89	DISTRICT 7 DETAILS

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED AFTER SHEET NO. 89:

STANDARD NO.	DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
420001-10	PAVEMENT JOINTS
442201-03	CLASS C & D PATCHES
602301-04	INLET, TYPE A
604051-04	FRAME & GRATE, TYPE 11
606001-08	CONCRETE CURB TYPE B & COMB CURB AND GUTTER
606301-04	PCC ISLANDS & MEDIANS
642001-03	SHOULDER RUMBLE STRIP 16 IN
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5M) TO 24' (600MM) FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5M) AWAY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH
701422-10	LANE CLOSURE, MULTILANE, 45-55 MPH
701426-09	LANE CLOSURE, MULTILANE- INTERMITTANT OR MOVING, 45-55 MPH
701427-05	LANE CLOSURE, MULTILANE- INTERMITTANT OR MOVING, ≤ 40 MPH
701456-05	PARTIAL EXIT RAMP CLOSURE FREEWAY EXPRESSWAY
701601-09	URBAN LANE CLOSURE, MULTILANE, 2W WITH NON-TRAVERSABLE MEDIAN
701602-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701701-10	URBAN LANE CLOSURE, MULTILANE, INTERSECTION
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUTS FOR DETECTION LOOPS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

APPLICATION	AC/PG	DESIGN AIR	MIXTURE	FRICITION	QUALITY
		VOIDS	COMPOSITION	AGGREGATE	MANAGEMENT
POLYMERIZED HMA SURFACE COURSE, MIX "D", N90 (2")	SBS PG 70-22	4.0% @ N=90	IL - 9.5	MIXTURE D	PFP
POLYMERIZED HMA BINDER COURSE, IL-9.5FG, N90, (1 3/4")	SBS PG 70-22	4.0% @ N=90	IL - 9.5FG	N/A	PFP
HMA SHOULDERS (TOP LIFT)	PG 64-22	4.0% @ N=70	IL - 9.5	MIXTURE C	QC/QA
HMA SHOULDERS (BOTTOM LIFT)	PG 64-22	4.0% @ N=70	IL - 19.0	N/A	QC/QA
CLASS D PATCHING	PG 64-22	4.0% @ N=70	IL - 19.0	N/A	QC/QA

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES &  
INDEX OF SHEETS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	2
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74780	

80% FED  
20% STATE

80% FED  
20% STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0005 RURAL	0005 URBAN	0013
20800150	TRENCH BACKFILL	CU YD	4.2		4.2	
28100105	STONE RIPRAP, CLASS A3	SQ YD	4		4	
31101000	SUBBASE GRANULAR MATERIAL, TYPE B	TON	28			28
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	15	2	13	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	154829	31664	123165	
40600370	LONGITUDINAL JOINT SEALANT	FOOT	84205	20922	63283	
40600990	TEMPORARY RAMP	SQ YD	192	67	125	
40603219	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N90	TON	16714	3052	13662	
40604164	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N90	TON	19237	3488	15749	
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	141233		141233	
44000164	HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4"	SQ YD	88143	46909	41234	
44000300	CURB REMOVAL	FOOT	1790		1790	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	7051		7051	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0005 RURAL	0005 URBAN	0013
44003100	MEDIAN REMOVAL	SO FT	24042.4		24042.4	
44201798	CLASS D PATCHES, TYPE I, 13 INCH	SO YD	88		88	
44201803	CLASS D PATCHES, TYPE II, 13 INCH	SO YD	2104		2104	
44201807	CLASS D PATCHES, TYPE III, 13 INCH	SO YD	205		205	
44201809	CLASS D PATCHES, TYPE IV, 13 INCH	SO YD	369		369	
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	450	155	295	
48203012	HOT-MIX ASPHALT SHOULDERS, 3 3/4"	SO YD	43290	11772	31518	
48203100	HOT-MIX ASPHALT SHOULDERS	TON	1059	884	175	
50102400	CONCRETE REMOVAL	CU YD	26		26	
50104650	SLOPE WALL REMOVAL	SO YD	40		40	
50157300	PROTECTIVE SHIELD	SO YD	485		485	
50300225	CONCRETE STRUCTURES	CU YD	22.2		22.2	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	28		28	
50300260	BRIDGE DECK GROOVING	SO YD	1075		1075	

REV. - MS

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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.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	3
			CONTRACT NO. 74780	
ILLINOIS FED. AID PROJECT				

80% FED  
20% STATE

80% FED  
20% STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0005 RURAL	0005 URBAN	0013
50300300	PROTECTIVE COAT	SO YD	1305		1305	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	5755		5755	
50800515	BAR SPLICERS	EACH	56		56	
51100300	SLOPE WALL 6 INCH	SO YD	40		40	
52000110	PREFORMED JOINT STRIP SEAL	FOOT	158		158	
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	55		55	
60100945	PIPE DRAINS 12"	FOOT	23		23	
60236800	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	EACH	2		2	
60255500	MANHOLES TO BE ADJUSTED	EACH	3		3	
60605500	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (VARIABLE WIDTH GUTTER FLAG)	FOOT	7051		7051	
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SO FT	21967.3		21967.3	
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	12438	12438		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	22	6	16	
67000600	ENGINEER'S FIELD LABORATORY	CAL MO	22	6	16	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0005 RURAL	0005 URBAN	0013
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	62		62	
67100100	MOBILIZATION	L SUM	1	0.3	0.7	
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1		1	
70100320	TRAFFIC CONTROL AND PROTECTION, STANDARD 701422	L SUM	1	0.1	0.9	
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	2		2	
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	12		12	
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1		1	
70100825	TRAFFIC CONTROL AND PROTECTION, STANDARD 701456	L SUM	1		1	
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	1		1	
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	0.1	0.9	
70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1	0.3	0.7	
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0.1	0.9	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	56	14	42	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	28835	9907	18928	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	65404	13860	51544	
70307100	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - TYPE IV TAPE	SO FT	1889	281	1608	

\* SPECIALTY ITEM

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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.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	4
CONTRACT NO. 74780			ILLINOIS FED. AID PROJECT	



80% FED  
20% STATE

80% FED  
20% STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0005 RURAL	0005 URBAN	0013
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	11007	4528	6479	*
70307130	TEMPORARY PAVEMENT MARKING - LINE 6" - TYPE IV TAPE	FOOT	110832	21788	89044	*
70307140	TEMPORARY PAVEMENT MARKING - LINE 8" - TYPE IV TAPE	FOOT	439		439	*
70307160	TEMPORARY PAVEMENT MARKING - LINE 12"- TYPE IV TAPE	FOOT	473	90	383	*
70307210	TEMPORARY PAVEMENT MARKING - LINE 24"- TYPE IV TAPE	FOOT	249		249	*
70400100	TEMPORARY CONCRETE BARRIER	FOOT	682		682	*
70400125	PINNING TEMPORARY CONCRETE BARRIER	EACH	48		48	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	633		633	*
70600240	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 2	EACH	2		2	*
70600340	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 2	EACH	2		2	*

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0005 RURAL	0005 URBAN	0013
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	1889	281	1608	
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	11007	4528	6479	
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	92926	17593	75333	
78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	439		439	
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	473	90	383	
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	249		249	
78003131	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - STANDARD - LINE 6"	FOOT	3750	690	3060	
78004230	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6"	FOOT	14156	3505	10651	
78011000	GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS AND SYMBOLS	SQ FT	1889	281	1608	
78011025	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	11007	4528	6479	
78011035	GROOVING FOR RECESSED PAVEMENT MARKING 7"	FOOT	96676	18283	78393	
78011045	GROOVING FOR RECESSED PAVEMENT MARKING 9"	FOOT	439		439	

\* SPECIALTY ITEM

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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.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	5
CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				

80% FED  
20% STATE

80% FED  
20% STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0005 RURAL	0005 URBAN	0013
* 78011065	GROOVING FOR RECESSED PAVEMENT MARKING 13"	FOOT	473	90	383	
* 78011125	GROOVING FOR RECESSED PAVEMENT MARKING 25"	FOOT	249		249	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	1164	274	890	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	1164	274	890	
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	2763		2763	
X4023000	TEMPORARY ACCESS (ROAD)	EACH	4	2	2	
X4060995	TEMPORARY RAMP, SPECIAL	SO YD	3016	202	2814	
X6061005	CONCRETE CURB, TYPE B (SPECIAL)	FOOT	1790		1790	
X6061800	CONCRETE MEDIAN, TYPE SB (DOWELLED)	SO FT	2075.1		2075.1	
X7010228	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601, SPECIAL	L SUM	1		1	
Z0001700	APPROACH SLAB REPAIR (FULL DEPTH)	SO YD	13			13
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SO YD	8			8
Z0012110	BRIDGE DECK FLY ASH OR GGBF SLAG CONCRETE OVERLAY, 2 1/4"	SO YD	1120			1120

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT				
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SO YD	1120			1120
Z0012500	CONCRETE CURB REPAIR	FOOT	72		72	
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SO FT	85			85
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SO YD	23			23
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SO YD	20			20
Z0018051	DRAINAGE SCUPPERS TO BE ADJUSTED	EACH	2			2

\* SPECIALTY ITEM

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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.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	6
CONTRACT NO. 74780			ILLINOIS FED. AID PROJECT	











STRIPING SCHEDULE

Table with 31 columns: STA, STA, (FOOT), (FOOT), (FOOT), (FOOT), (FOOT), (FOOT), (SQ FT), (FOOT), (FOOT), (FOOT), (FOOT), (FOOT), (FOOT), (FOOT), (SQ FT), (FOOT), (FOOT), (FOOT), (FOOT), (FOOT), (FOOT), (FOOT), (FOOT), (FOOT), (FOOT), (SQ FT), (SQ FT). Rows include RAMP E, RAMP F, MAINLINE, SOUTH BOUND, NORTH BOUND, and a TOTAL row.

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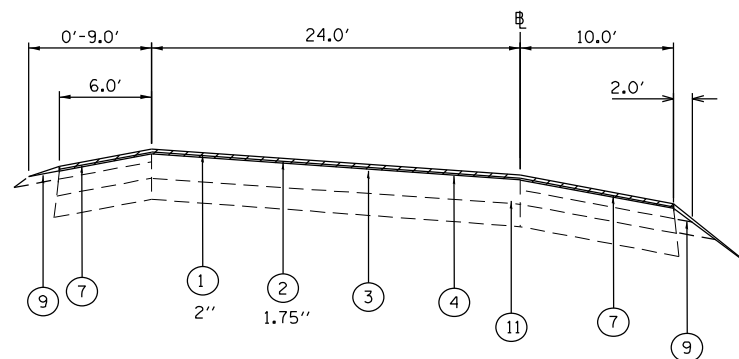
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

Table with 5 columns: F.A.P RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., CONTRACT NO. 74780. ILLINOIS FED. AID PROJECT

① **TYPICAL CROSS SECTION**  
 STATION 23+85.00 TO STATION 65+78.00 (RAMP E)  
 STATION 38+12.00 TO STATION 62+77.00 (RAMP F)



**LEGEND**

- ① POLYMERIZED SC HMA IL-9.5 D N90, 2.0"
- ② POLYMERIZED BC HMA IL-9.5 FG N90, 1 3/4"
- ③ BITUMINOUS MATERIALS (TACK COAT)
- ④ HMA SURFACE REMOVAL 2 1/2
- ⑤ HMA SURFACE REMOVAL 3 3/4
- ⑥ LONGITUDINAL JOINT SEALANT
- ⑦ HMA SHOULDERS
- ⑧ HMA SHOULDERS 3 3/4
- ⑨ AGGREGATE WEDGE SHOULDER TYPE B
- ⑩ CURB, CURB & GUTTER, & MEDIAN  
REMOVAL AND REPLACEMENT  
(SEE SCHEDULE)
- ⑪ EXISTING FULL DEPTH HMA
- ⑫ EXISTING PCC PAVEMENT

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

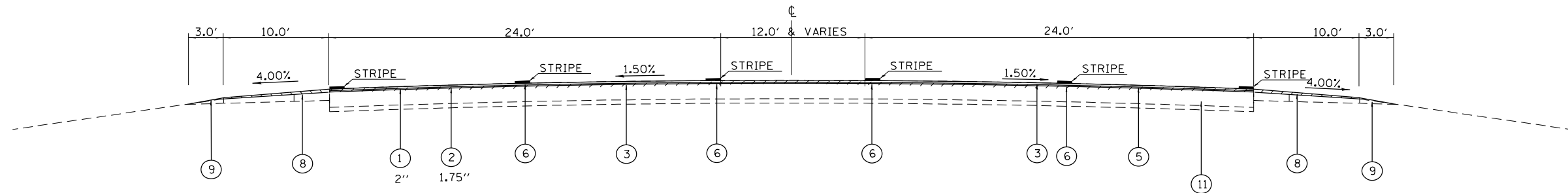
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SCALE: SHEET 1 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	12
CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				

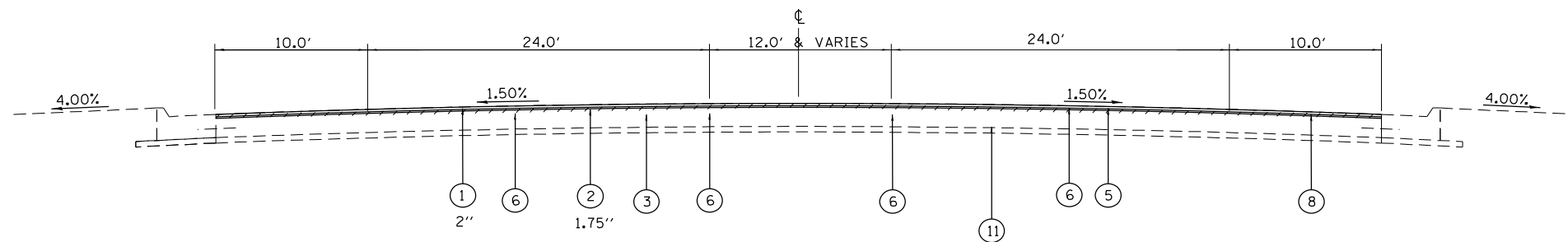
② TYPICAL CROSS SECTION

STATION 461+19 TO 483+75  
STATION 500+53 TO 508+72



③ TYPICAL CROSS SECTION

STATION 483+75 TO 500+53



LEGEND

- ① POLYMERIZED SC HMA IL-9.5 D N90, 2.0"
- ② POLYMERIZED BC HMA IL-9.5 FG N90, 1 3/4"
- ③ BITUMINOUS MATERIALS (TACK COAT)
- ④ HMA SURFACE REMOVAL 2 1/2
- ⑤ HMA SURFACE REMOVAL 3 3/4
- ⑥ LONGITUDINAL JOINT SEALANT
- ⑦ HMA SHOULDERS
- ⑧ HMA SHOULDERS 3 3/4
- ⑨ AGGREGATE WEDGE SHOULDER TYPE B
- ⑩ CURB, CURB & GUTTER, & MEDIAN  
REMOVAL AND REPLACEMENT  
(SEE SCHEDULE)
- ⑪ EXISTING FULL DEPTH HMA
- ⑫ EXISTING PCC PAVEMENT

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

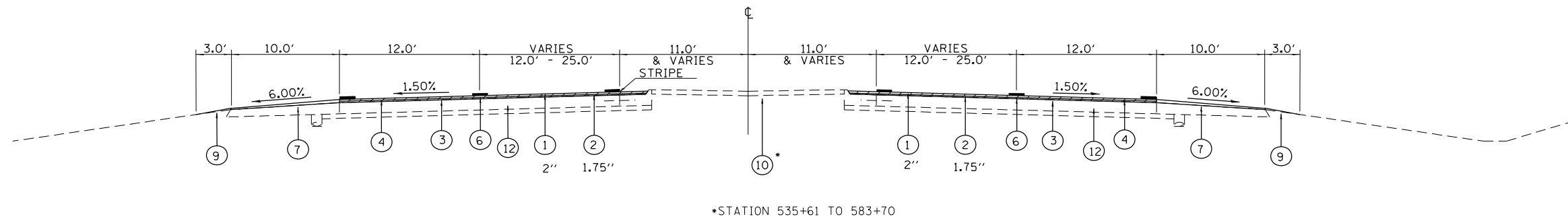
TYPICAL SECTION

SCALE: SHEET 2 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	13
CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				

④ TYPICAL CROSS SECTION

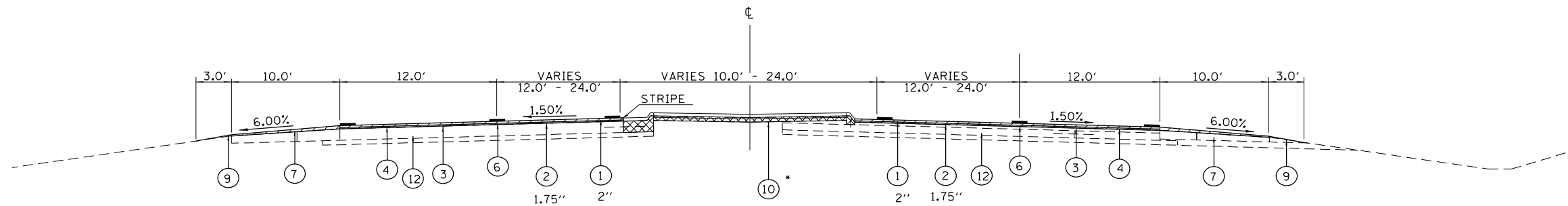
STATION 508+72 TO 538+70



\*STATION 535+61 TO 583+70

⑤ TYPICAL CROSS SECTION

STATION 538+70 TO 543+66



\*STATION 535+61 TO 583+75

LEGEND

- ① POLYMERIZED SC HMA 1L-9.5 D N90, 2.0"
- ② POLYMERIZED BC HMA 1L-9.5 FG N90, 1 3/4"
- ③ BITUMINOUS MATERIALS (TACK COAT)
- ④ HMA SURFACE REMOVAL 2 1/2
- ⑤ HMA SURFACE REMOVAL 3 3/4
- ⑥ LONGITUDINAL JOINT SEALANT
- ⑦ HMA SHOULDERS
- ⑧ HMA SHOULDERS 3 3/4
- ⑨ AGGREGATE WEDGE SHOULDER TYPE B
- ⑩ CURB, CURB & GUTTER, & MEDIAN  
REMOVAL AND REPLACEMENT  
(SEE SCHEDULE)
- ⑪ EXISTING FULL DEPTH HMA
- ⑫ EXISTING PCC PAVEMENT

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION

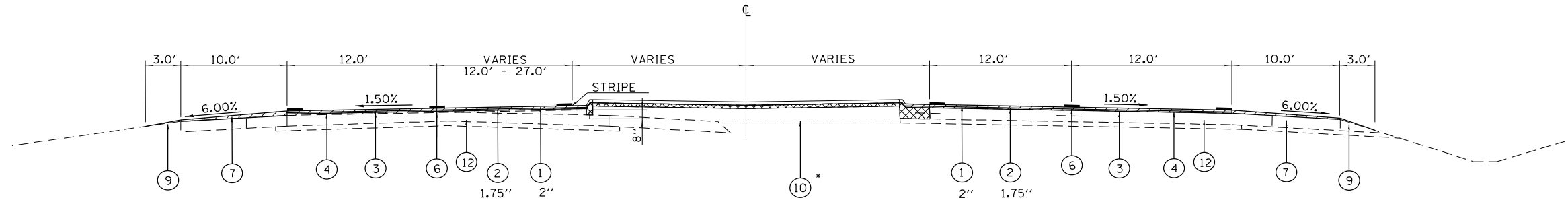
SCALE: SHEET 3 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	14
CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				



⑥ TYPICAL CROSS SECTION

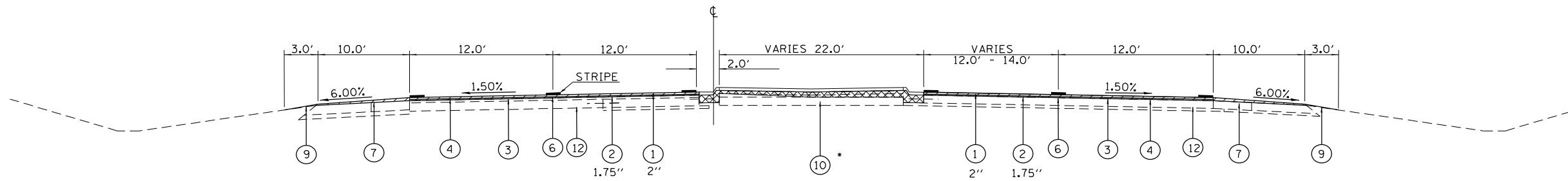
STATION 543+66 TO 577+90



\*STATION 535+61 TO 583+75

⑦ TYPICAL CROSS SECTION

STATION 577+90 TO 583+25



\*STATION 535+61 TO 583+75

LEGEND

- ① POLYMERIZED SC HMA IL-9.5 D N90, 2.0"
- ② POLYMERIZED BC HMA IL-9.5 FG N90, 1 3/4"
- ③ BITUMINOUS MATERIALS (TACK COAT)
- ④ HMA SURFACE REMOVAL 2 1/2
- ⑤ HMA SURFACE REMOVAL 3 3/4
- ⑥ LONGITUDINAL JOINT SEALANT
- ⑦ HMA SHOULDERS
- ⑧ HMA SHOULDERS 3 3/4
- ⑨ AGGREGATE WEDGE SHOULDER TYPE B
- ⑩ CURB, CURB & GUTTER, & MEDIAN  
REMOVAL AND REPLACEMENT  
(SEE SCHEDULE)
- ⑪ EXISTING FULL DEPTH HMA
- ⑫ EXISTING PCC PAVEMENT

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

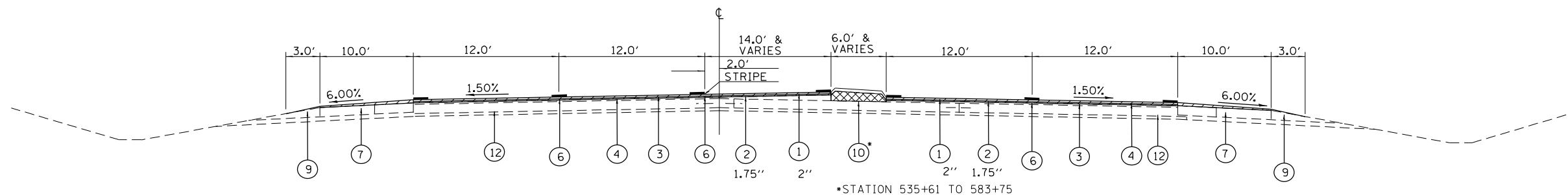
TYPICAL SECTION

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	15
CONTRACT NO. 74780			ILLINOIS FED. AID PROJECT	

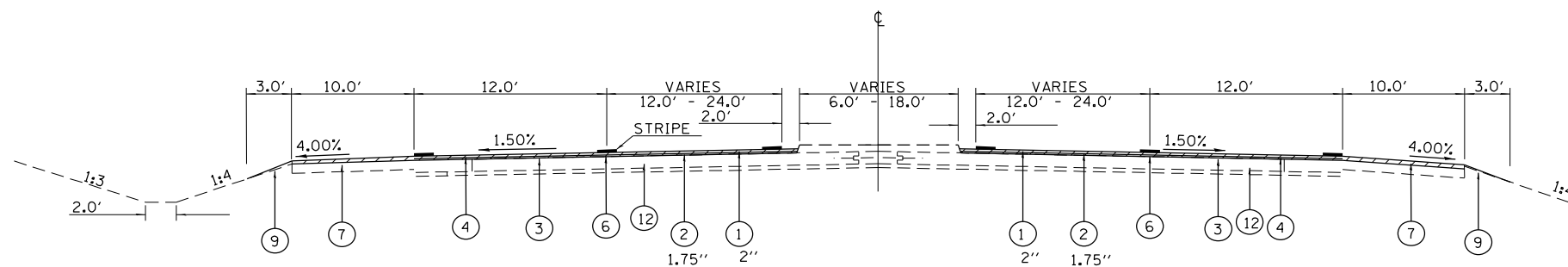
⑧ TYPICAL CROSS SECTION

STATION 583+25 TO 609+47



⑨ TYPICAL CROSS SECTION

STATION 609+47 TO 623+04



LEGEND

- ① POLYMERIZED SC HMA IL-9.5 D N90, 2.0"
- ② POLYMERIZED BC HMA IL-9.5 FG N90, 1 3/4"
- ③ BITUMINOUS MATERIALS (TACK COAT)
- ④ HMA SURFACE REMOVAL 2 1/2
- ⑤ HMA SURFACE REMOVAL 3 3/4
- ⑥ LONGITUDINAL JOINT SEALANT
- ⑦ HMA SHOULDERS
- ⑧ HMA SHOULDERS 3 3/4
- ⑨ AGGREGATE WEDGE SHOULDER TYPE B
- ⑩ CURB, CURB & GUTTER, & MEDIAN  
REMOVAL AND REPLACEMENT  
(SEE SCHEDULE)
- ⑪ EXISTING FULL DEPTH HMA
- ⑫ EXISTING PCC PAVEMENT

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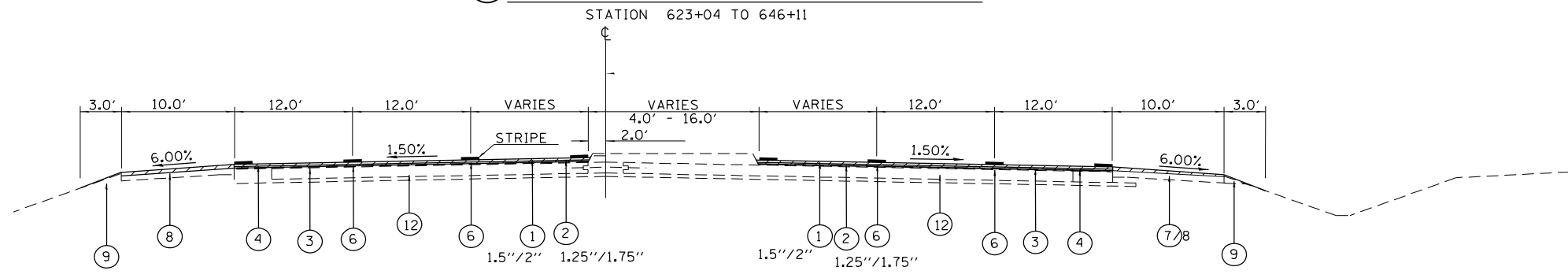
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	16
CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				

10 TYPICAL CROSS SECTION

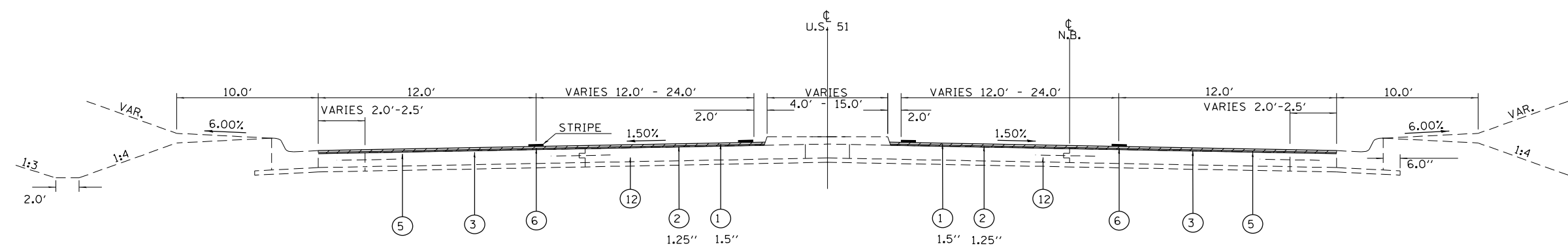


CURB AND GUTTER BEGINS AT STA. 626+93 LT

11 TYPICAL CROSS SECTION

US 51B STATION 646+11 TO 641+41  
NB STATION 663+24 TO 670+14

CURB AND GUTTER BEGINS AT STA. 633+45 RT



LEGEND

- 1 POLYMERIZED SC HMA IL-9.5 D N90, 2.0"
- 2 POLYMERIZED BC HMA IL-9.5 FG N90, 1 3/4"
- 3 BITUMINOUS MATERIALS (TACK COAT)
- 4 HMA SURFACE REMOVAL 2 1/2
- 5 HMA SURFACE REMOVAL 3 3/4
- 6 LONGITUDINAL JOINT SEALANT
- 7 HMA SHOULDERS
- 8 HMA SHOULDERS 3 3/4
- 9 AGGREGATE WEDGE SHOULDER TYPE B
- 10 CURB, CURB & GUTTER, & MEDIAN  
REMOVAL AND REPLACEMENT  
(SEE SCHEDULE)
- 11 EXISTING FULL DEPTH HMA
- 12 EXISTING PCC PAVEMENT

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

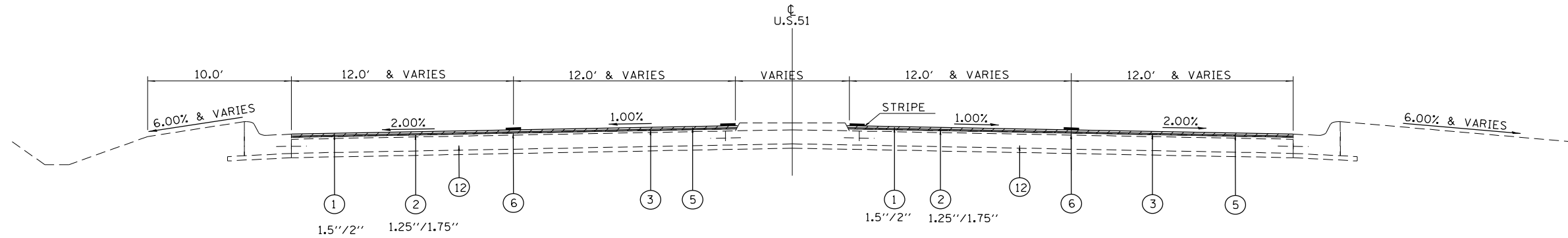
SCALE:		SHEET 6 OF 8 SHEETS		STA.	TO STA.
		TYPICAL SECTION			

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	17
CONTRACT NO. 74780			ILLINOIS FED. AID PROJECT	

12

### TYPICAL CROSS SECTION

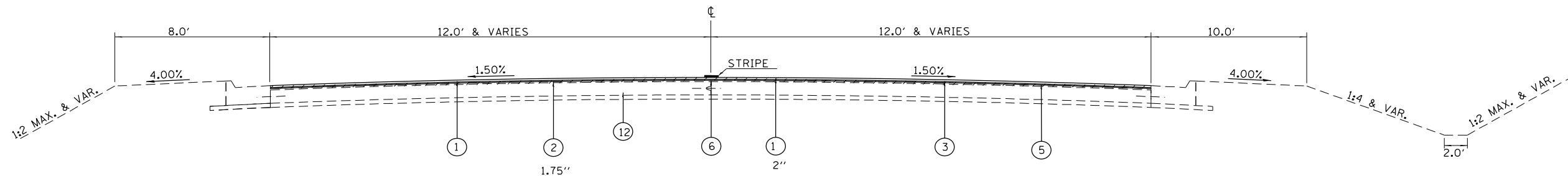
NB STATION 670+14 TO 681+96  
SB STATION 641+41 TO 653+55



13

### TYPICAL CROSS SECTION

NB STATION 1000+11 TO 1005+80  
NB STATION 1007+62 TO 1014+05  
SB STATION 100+45 TO 106+17  
SB STATION 108+15 TO 119+14



#### LEGEND

- 1 POLYMERIZED SC HMA IL-9.5 D N90, 2.0"
- 2 POLYMERIZED BC HMA IL-9.5 FG N90, 1 3/4"
- 3 BITUMINOUS MATERIALS (TACK COAT)
- 4 HMA SURFACE REMOVAL 2 1/2
- 5 HMA SURFACE REMOVAL 3 3/4
- 6 LONGITUDINAL JOINT SEALANT
- 7 HMA SHOULDERS
- 8 HMA SHOULDERS 3 3/4
- 9 AGGREGATE WEDGE SHOULDER TYPE B
- 10 CURB, CURB & GUTTER, & MEDIAN  
REMOVAL AND REPLACEMENT  
(SEE SCHEDULE)
- 11 EXISTING FULL DEPTH HMA
- 12 EXISTING PCC PAVEMENT

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

#### TYPICAL SECTION

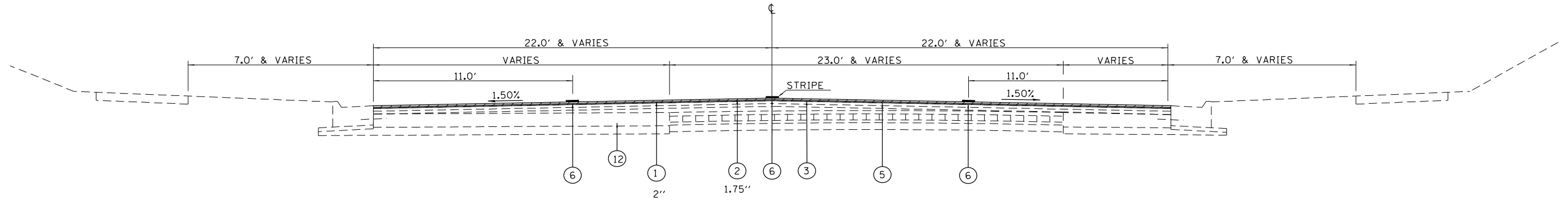
SCALE: SHEET 7 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	18
CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				

14

TYPICAL CROSS SECTION

NB STATION 1014+05 - 1021+61



LEGEND

- ① POLYMERIZED SC HMA IL-9.5 D N90, 2.0"
- ② POLYMERIZED BC HMA IL-9.5 FG N90, 1 3/4"
- ③ BITUMINOUS MATERIALS (TACK COAT)
- ④ HMA SURFACE REMOVAL 2 1/2"
- ⑤ HMA SURFACE REMOVAL 3 3/4"
- ⑥ LONGITUDINAL JOINT SEALANT
- ⑦ HMA SHOULDERS
- ⑧ HMA SHOULDERS 3 3/4"
- ⑨ AGGREGATE WEDGE SHOULDER TYPE B
- ⑩ CURB, CURB & GUTTER, & MEDIAN  
REMOVAL AND REPLACEMENT  
(SEE SCHEDULE)
- ⑪ EXISTING FULL DEPTH HMA
- ⑫ EXISTING PCC PAVEMENT

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

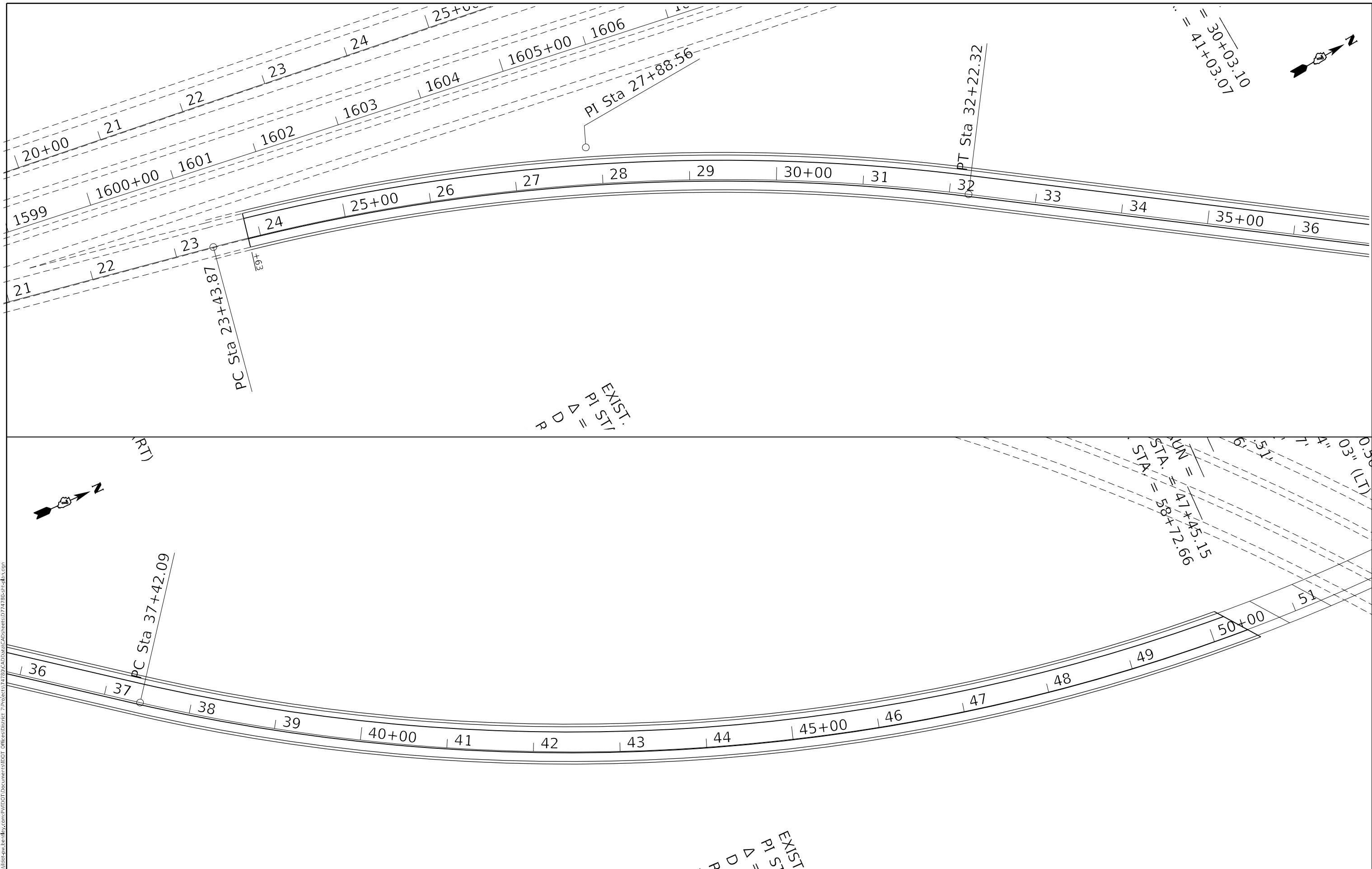
TYPICAL SECTION

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	19
CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				



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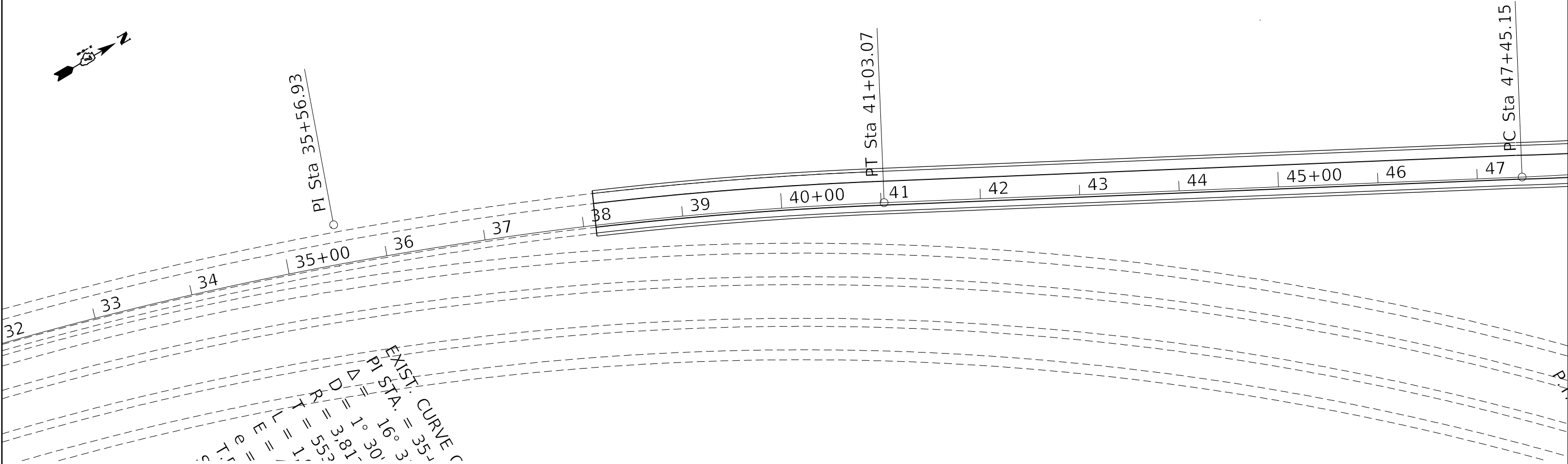
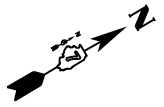
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

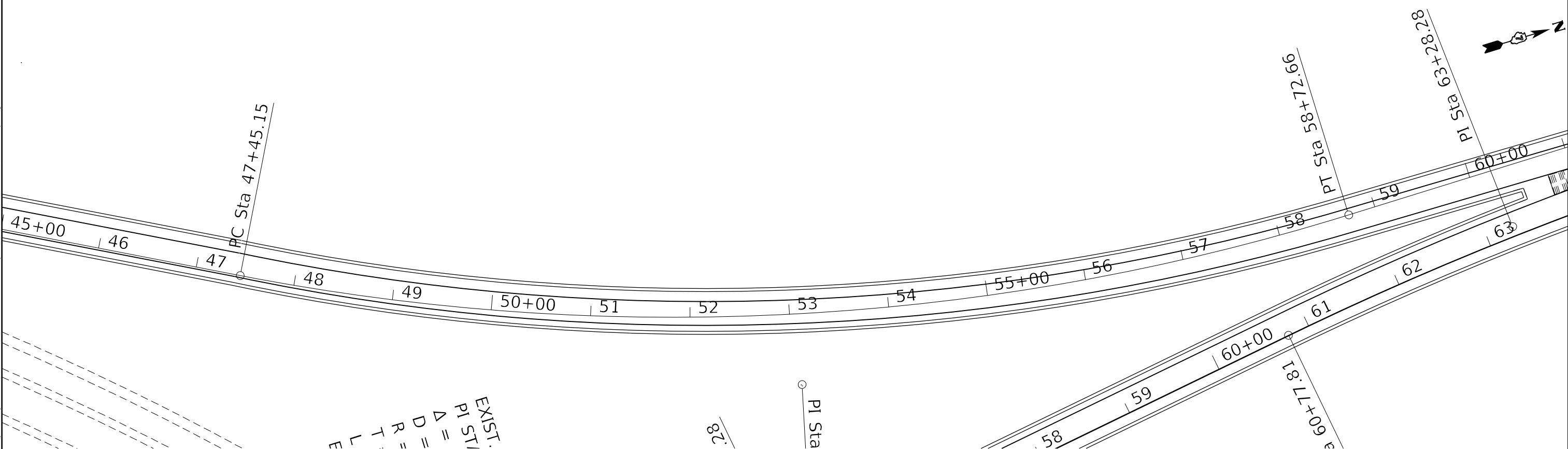
**PLAN SHEET**  
**RAMP E**

SCALE: SHEET 1 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	20
CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				



EXIST. CURVE  
 PI STA. = 35+56.93  
 Δ = 16° 30'  
 R = 381.30  
 L = 153.55  
 T = 53.81  
 E = 1.00  
 F = 1.00  
 D = 1.00



EXIST. CURVE  
 PI STA. = 63+28.28  
 Δ = 16° 30'  
 R = 381.30  
 L = 153.55  
 T = 53.81  
 E = 1.00  
 F = 1.00  
 D = 1.00

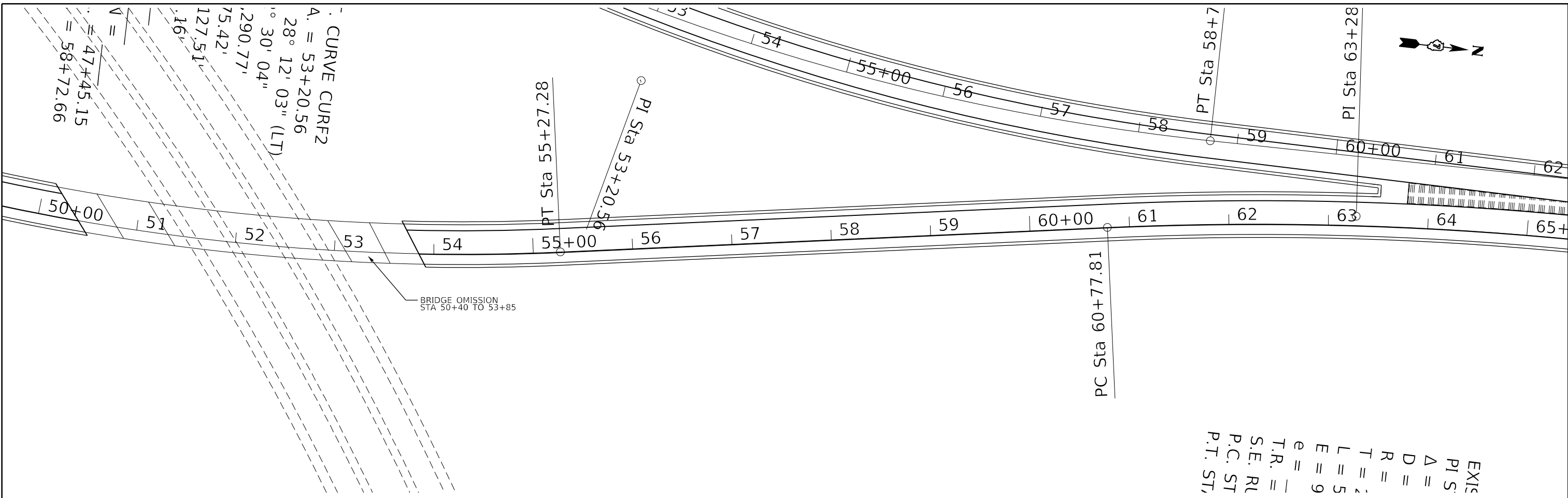
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	DATE -	REVISED -

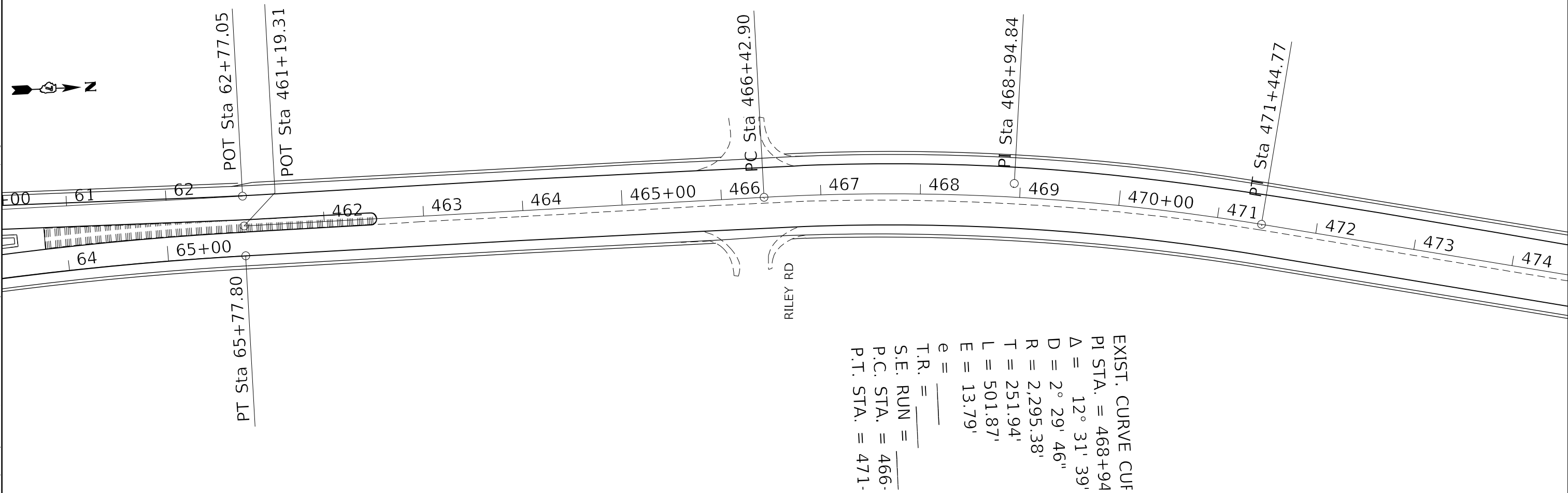
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>PLAN SHEET</b>			
<b>RAMP F</b>			
SCALE:	SHEET 2	OF 12 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	21
CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				



EXIST. CURVE CUF  
 PI STA. = 468+94  
 $\Delta = 12^\circ 31' 39''$   
 $D = 2^\circ 29' 46''$   
 $R = 2,295.38'$   
 $T = 251.94'$   
 $L = 501.87'$   
 $E = 13.79'$   
 $e =$   
 T.R. =  
 S.E. RUN =  
 P.C. STA. = 466-  
 P.T. STA. = 471-



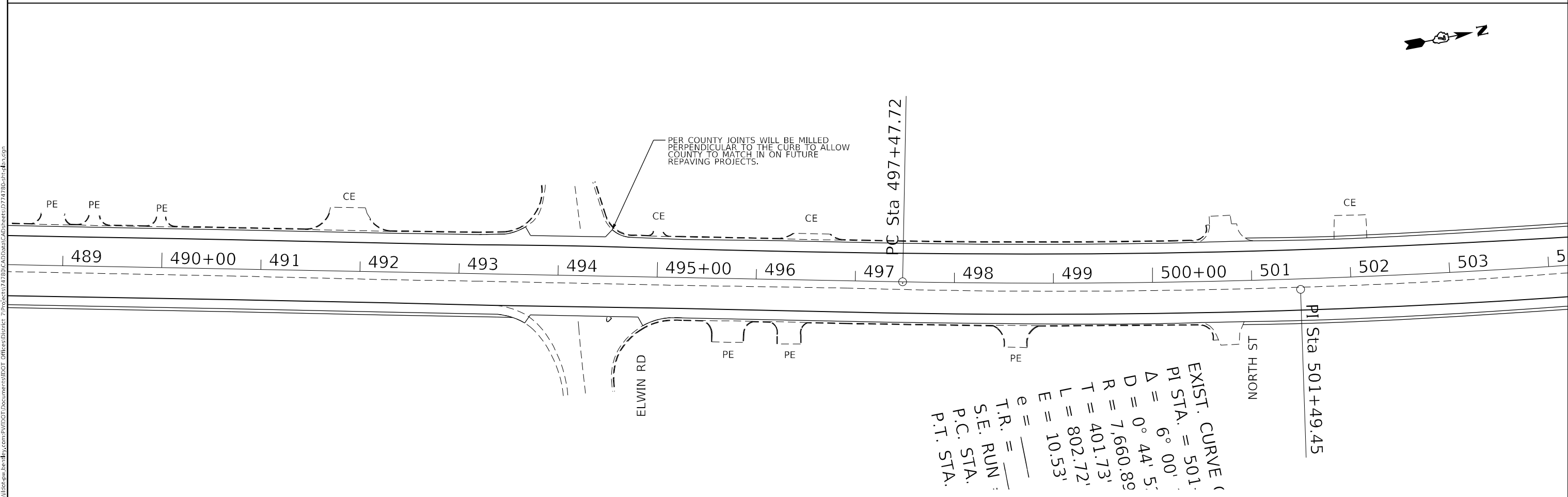
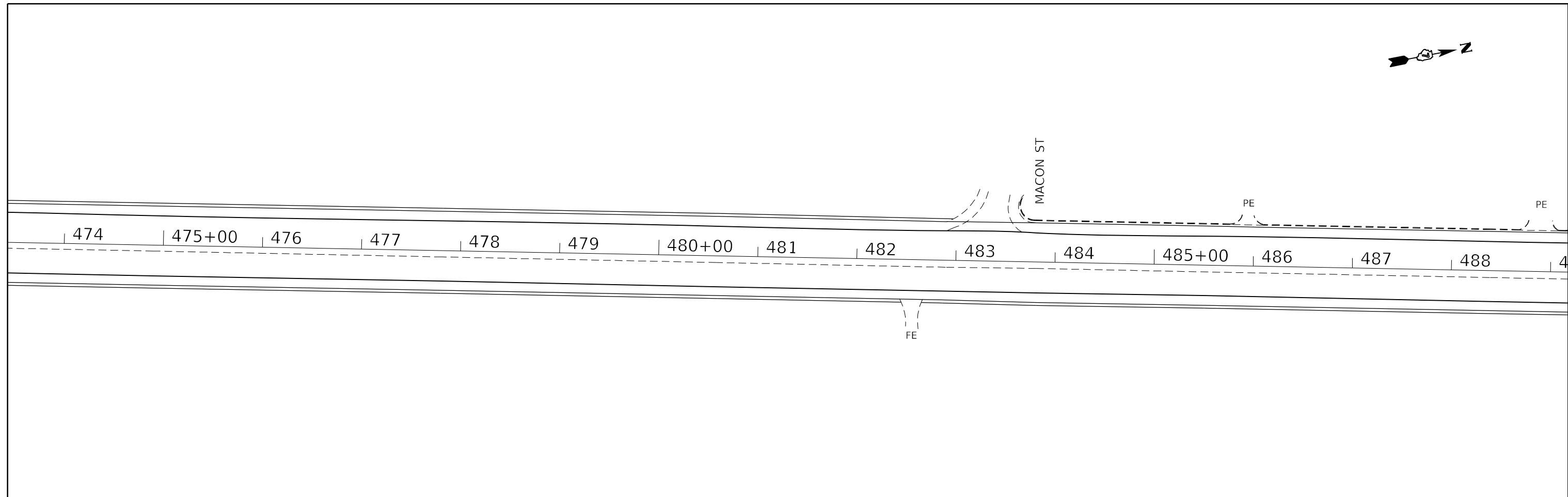
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DRAWN -	REVISED -	
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PLOT DATE = 4/8/2022	DATE -	REVISED -

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

<b>PLAN SHEET</b>			
<b>RAMP E &amp; F</b>			
SCALE:	SHEET 3	OF 12 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	22
CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				



EXIST. CURVE ( )  
 PI STA. = 501.  
 $\Delta = 6^\circ 00'$   
 $D = 0^\circ 44' 51''$   
 $R = 7,660.89'$   
 $T = 401.73'$   
 $L = 802.72'$   
 $E = 10.53'$   
 $e = \text{---}$   
 T.R. =  $\text{---}$   
 S.E. RUN :  $\text{---}$   
 P.C. STA. :  $\text{---}$   
 P.T. STA. :  $\text{---}$

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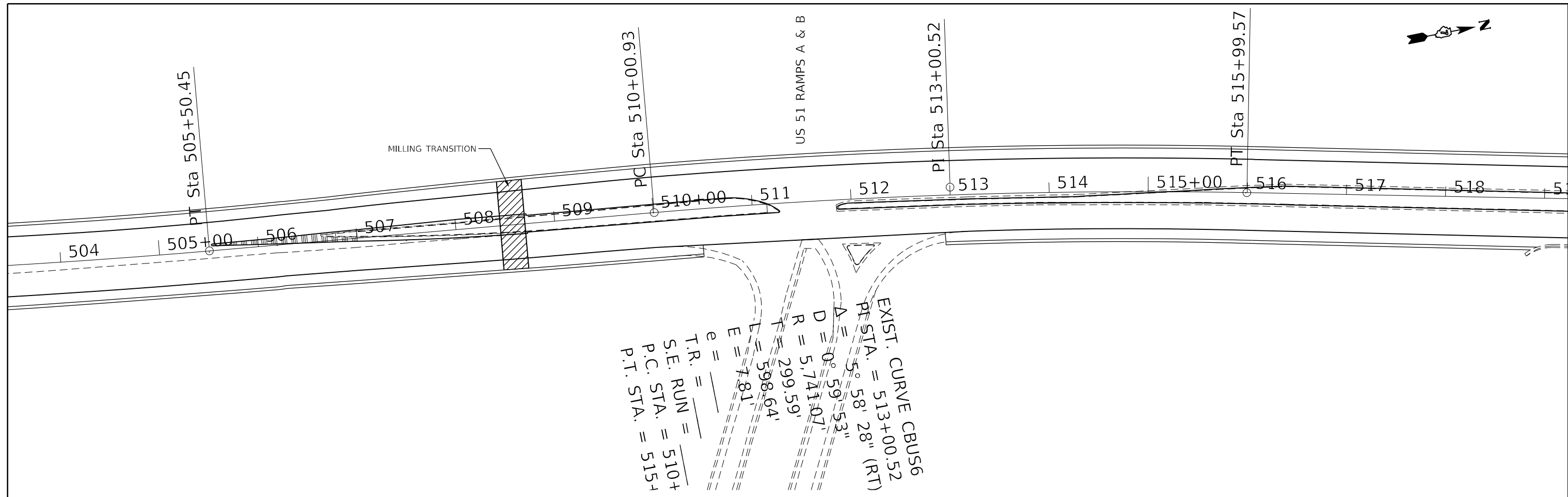
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

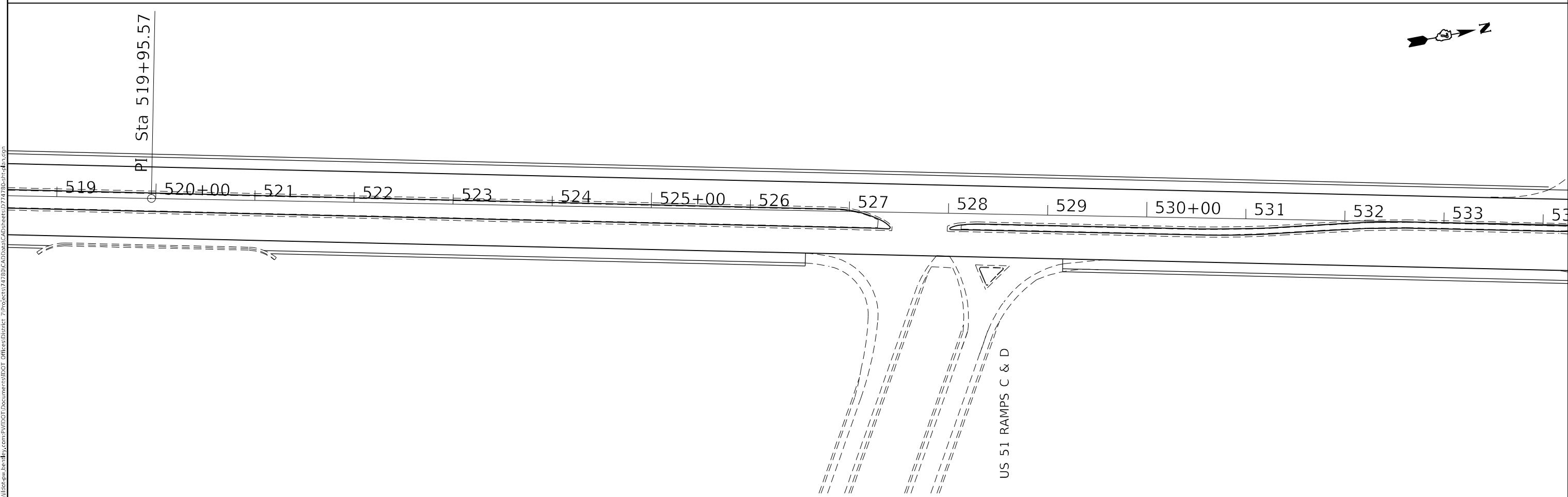
<b>PLAN SHEET</b>			
SCALE:	SHEET 4	OF 12 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	23
CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				

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EXIST. CURVE CBUS6  
 PI STA. = 513+00.52  
 $\Delta = 5.58\%$  28" (RT)  
 $D = 0.5953'$   
 $R = 5.74107'$   
 $L = 299.59'$   
 $E = 7.81'$   
 $L = 598.64'$   
 $E = 7.81'$   
 $T.R. = \text{---}$   
 $S.E. RUN = 510+$   
 $P.C. STA. = 515+$   
 $P.T. STA. = 515+$



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	DRAWN -	REVISED -
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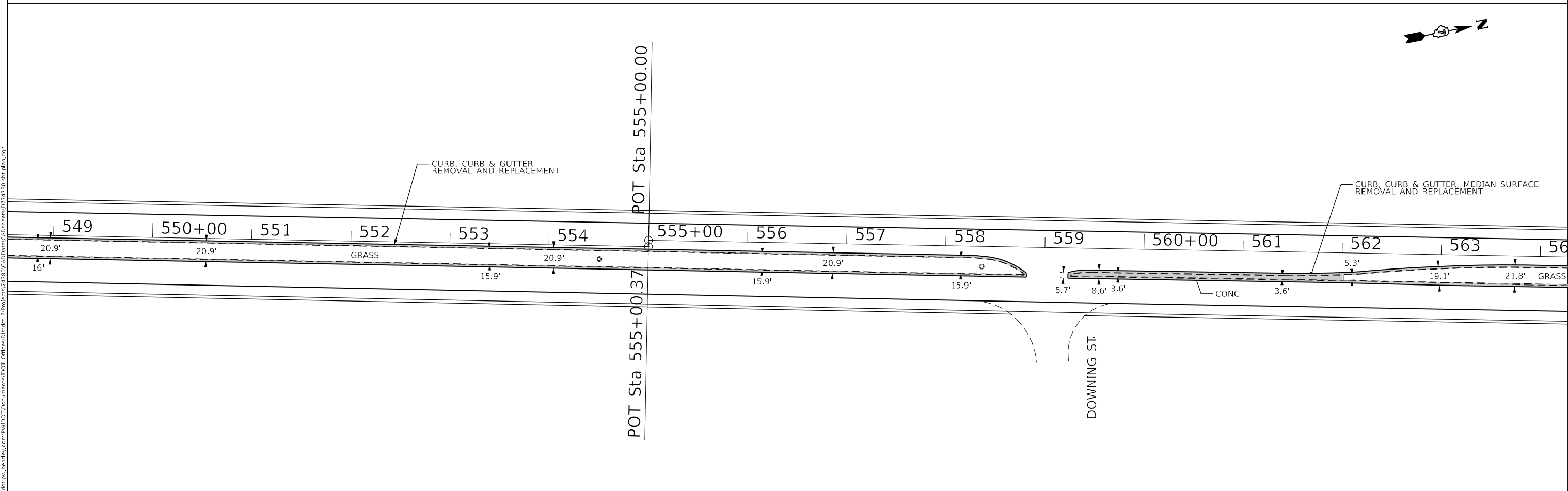
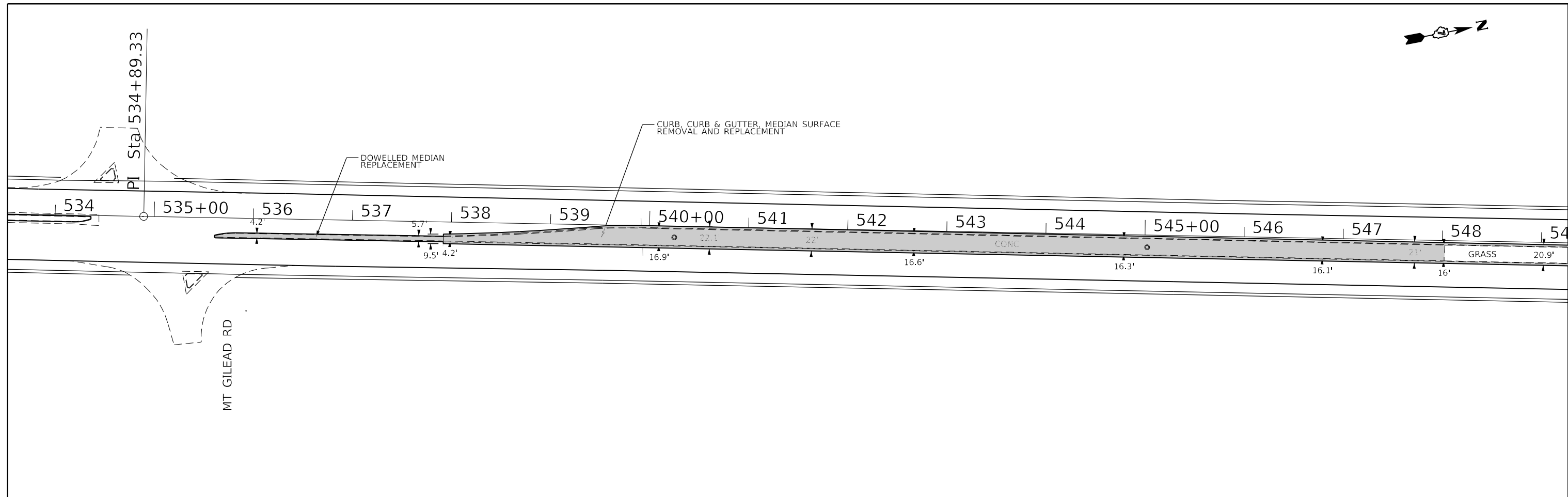
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PLAN SHEET**

SCALE: SHEET 5 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	24
CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				





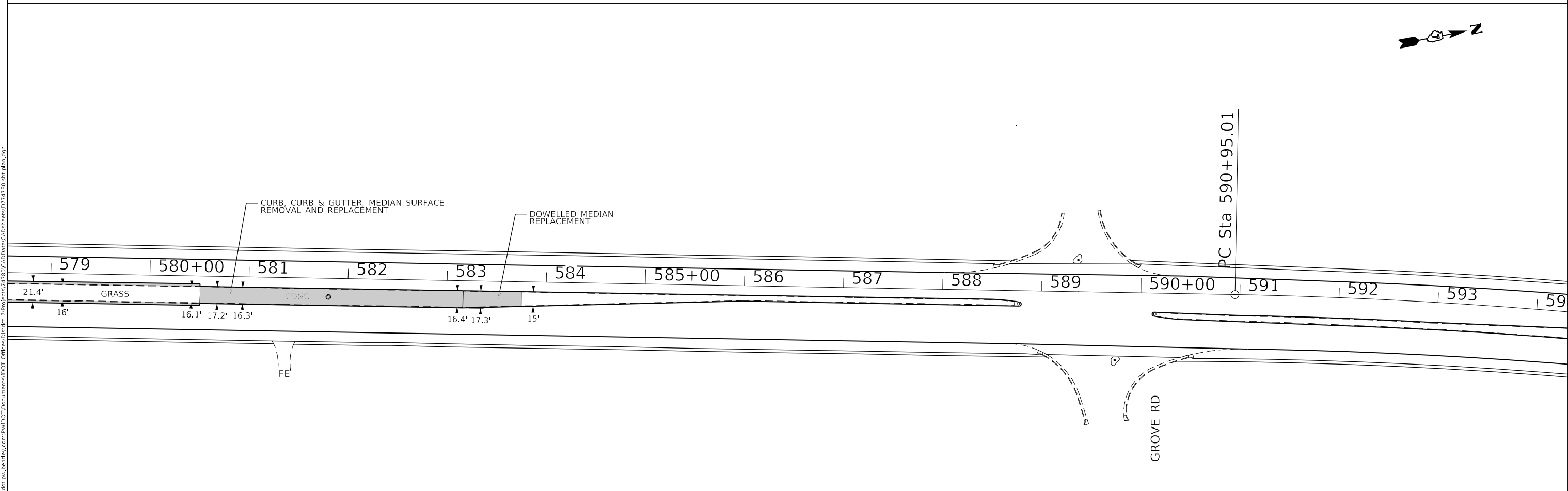
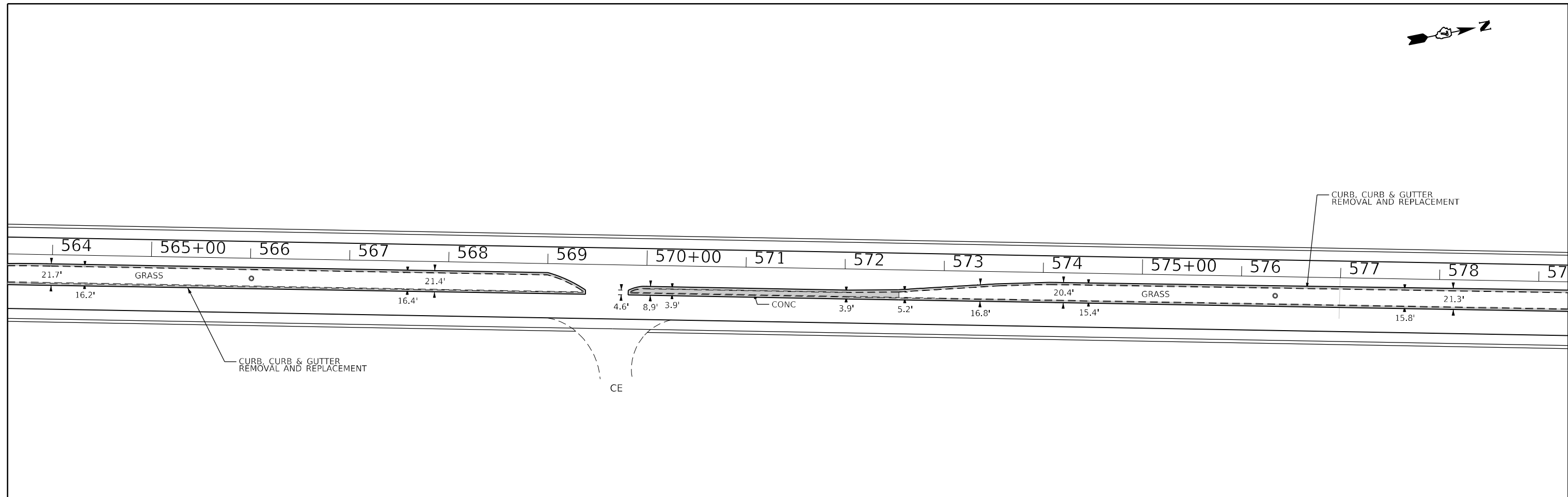
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	DRAWN -	REVISED -
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PLOT DATE = 4/8/2022	DATE -	REVISED -

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

**PLAN SHEET**  
 SCALE: SHEET 6 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	25
CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				



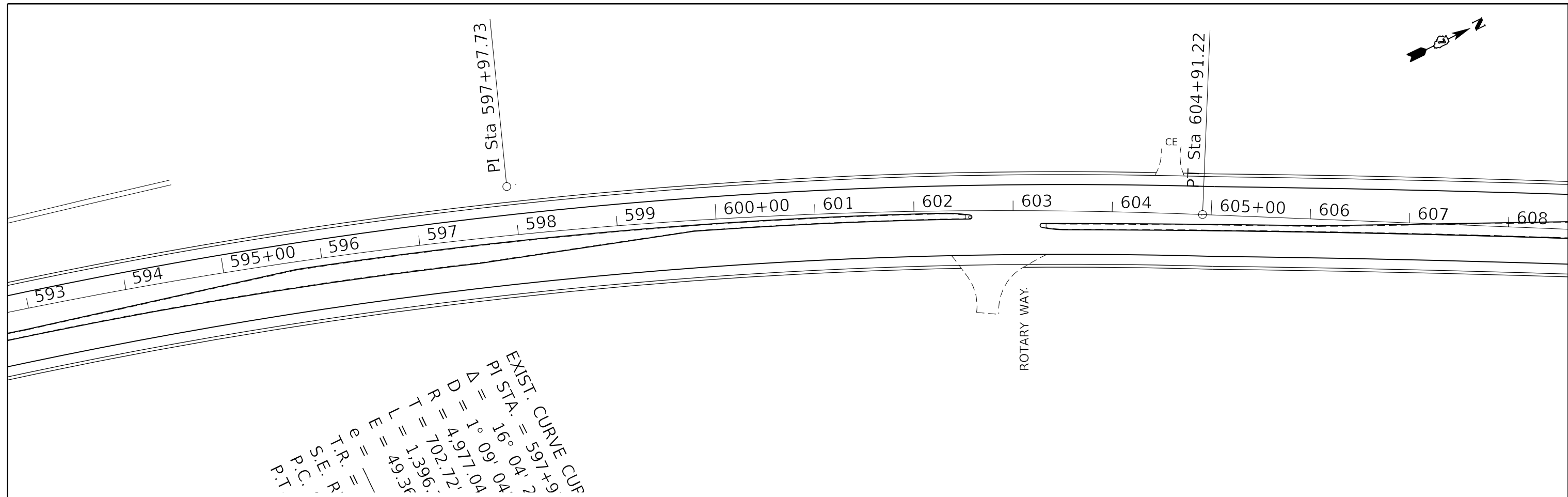
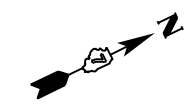
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	DATE -	REVISED -

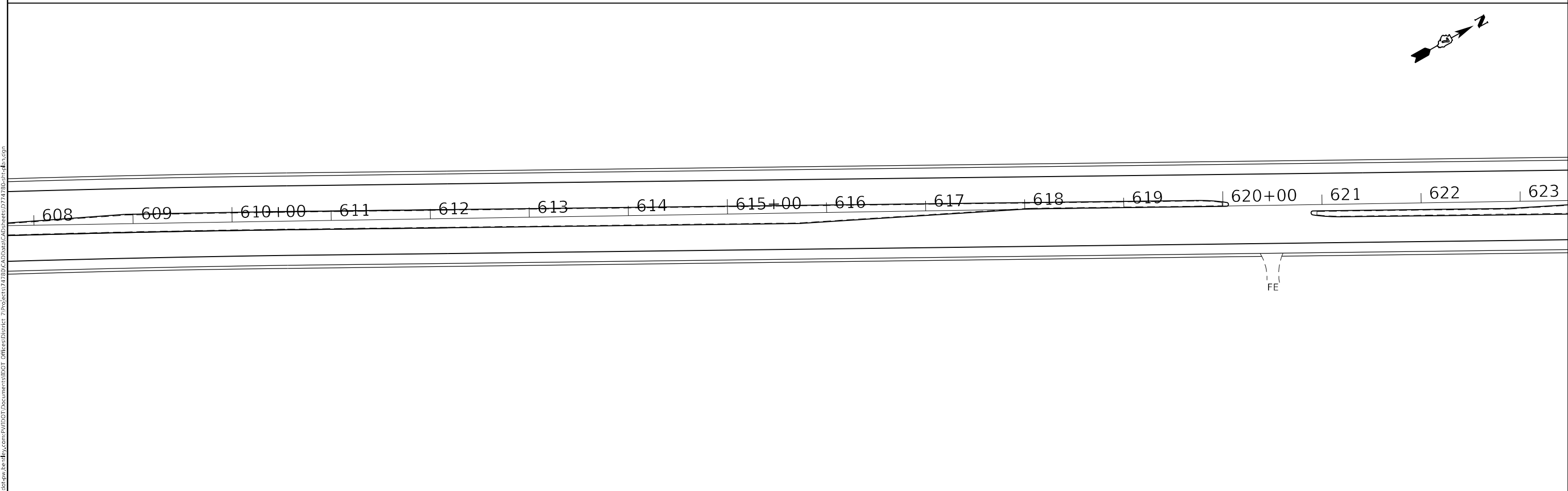
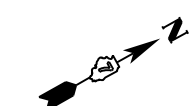
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>PLAN SHEET</b>			
SCALE:	SHEET 7	OF 12 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	26
CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				



EXIST. CURVE CUP  
 PI STA. = 597+97.73  
 $\Delta = 16^{\circ} 04' 2$   
 $D = 109.04$   
 $L = 4.9777$   
 $T = 1.3396$   
 $E = 4.93$   
 R.C.T.  
 S.E.T.R.  
 P.C.T.



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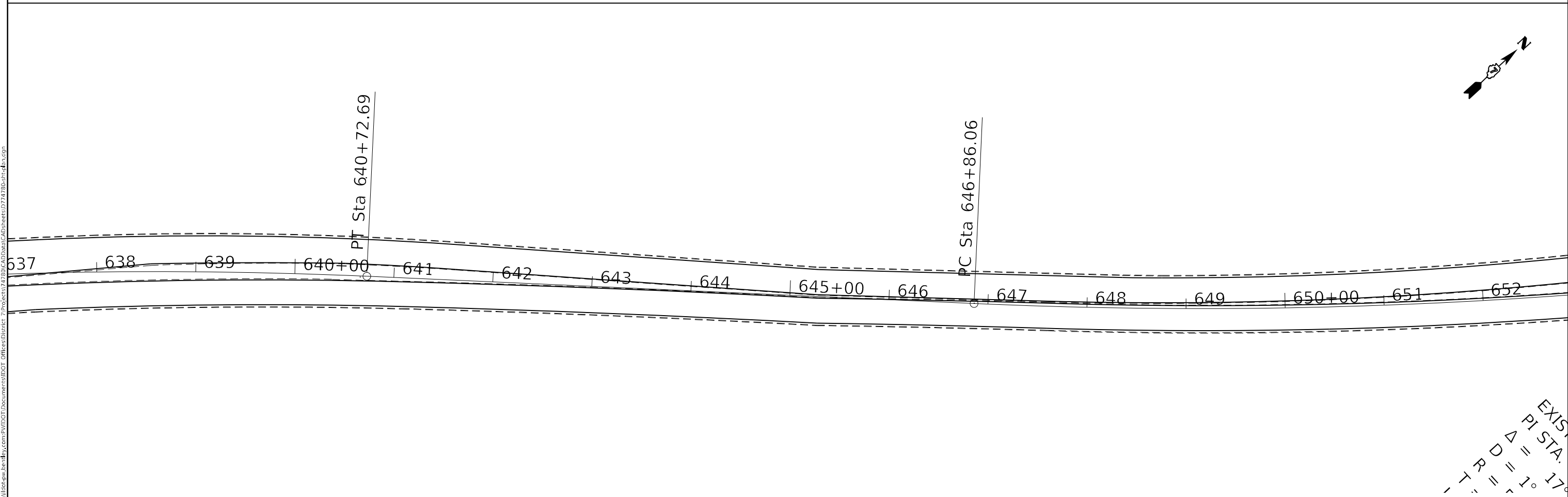
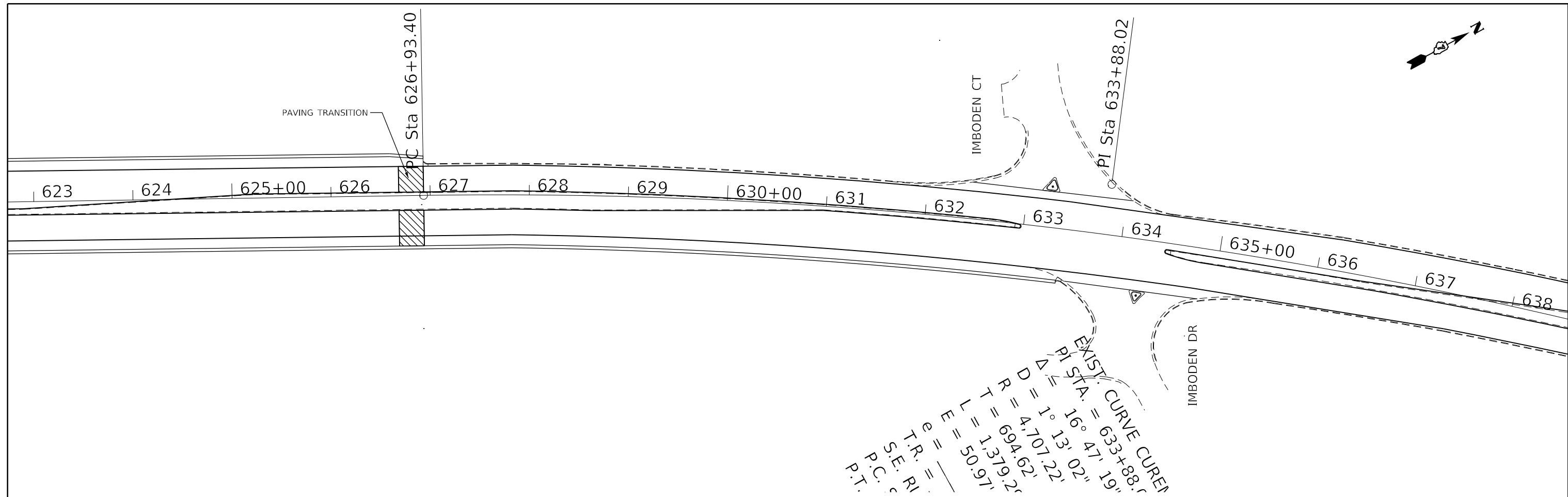
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	DATE -	REVISED -

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

<b>PLAN SHEET</b>			
SCALE:	SHEET 8	OF 12 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	27
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74780	

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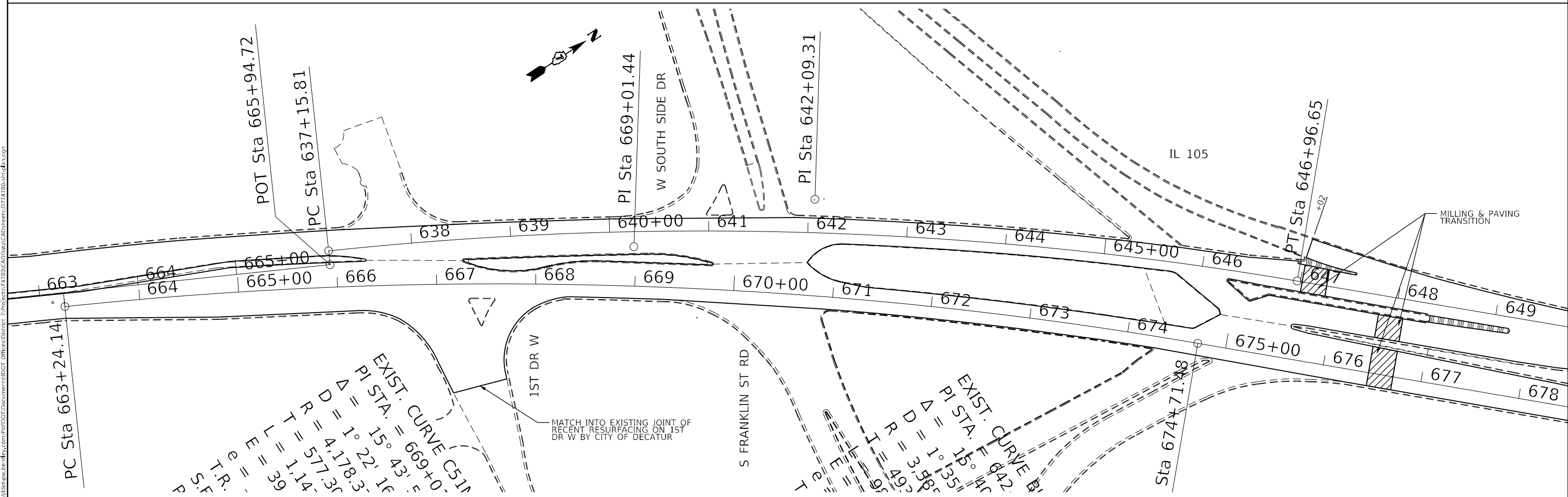
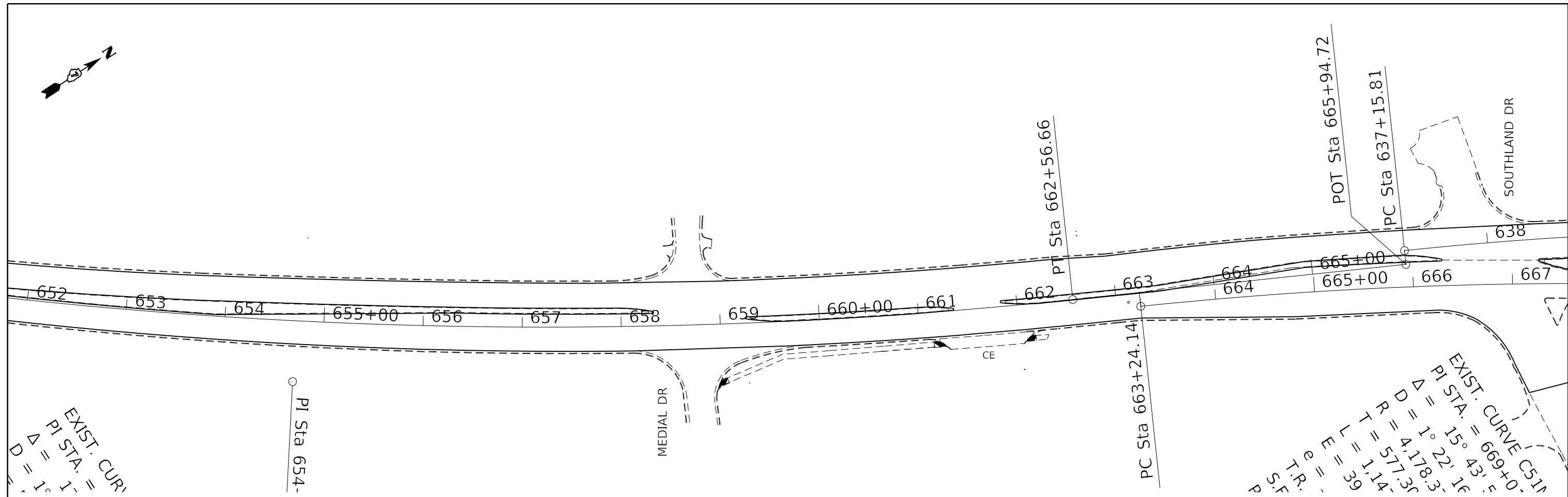
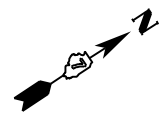
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PLAN SHEET**

SCALE: SHEET 9 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	28
CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				

EXIST.  
 PI STA.  
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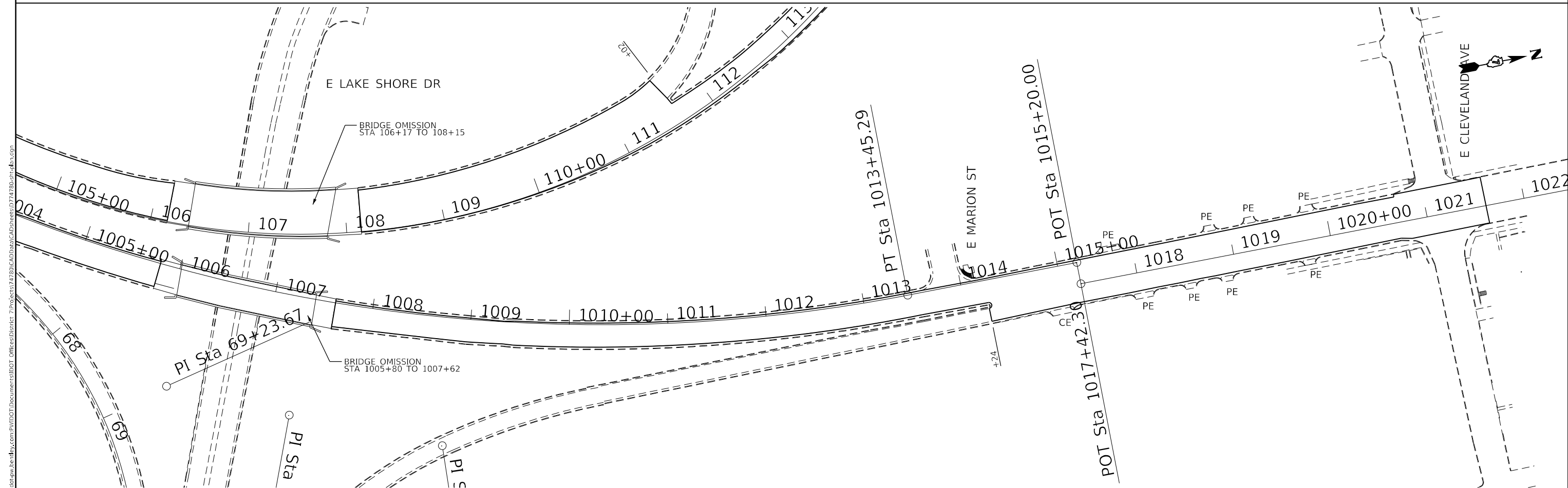
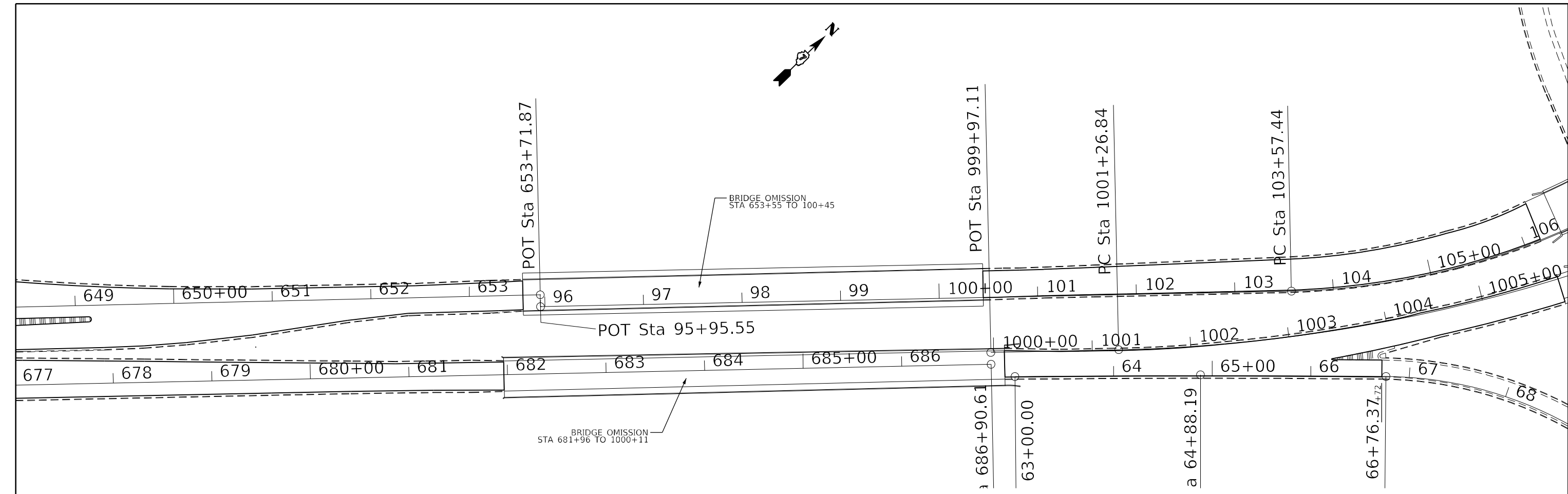
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PLOT DATE = 4/8/2022	CHECKED -	REVISED -
	DATE -	REVISED -

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

<b>PLAN SHEET</b>			
SCALE:	SHEET 10	OF 12 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	29
CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				



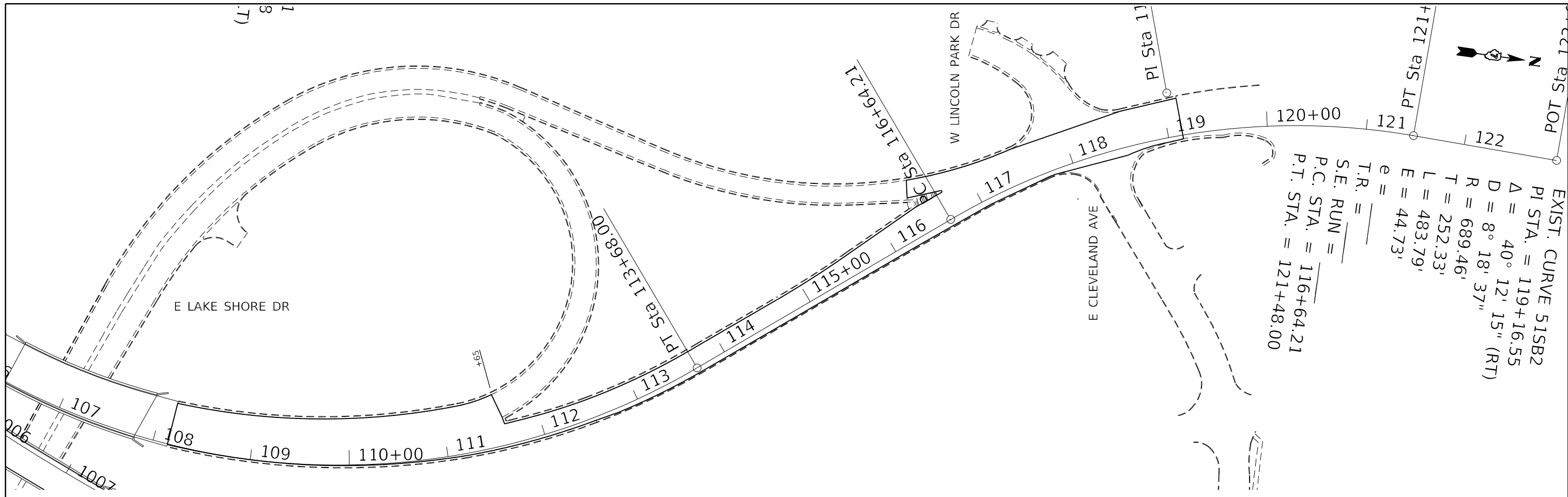
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DRAWN -	REVISED -	REVISED -
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>PLAN SHEET</b>			
SCALE:	SHEET 11	OF 12 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	30
CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				



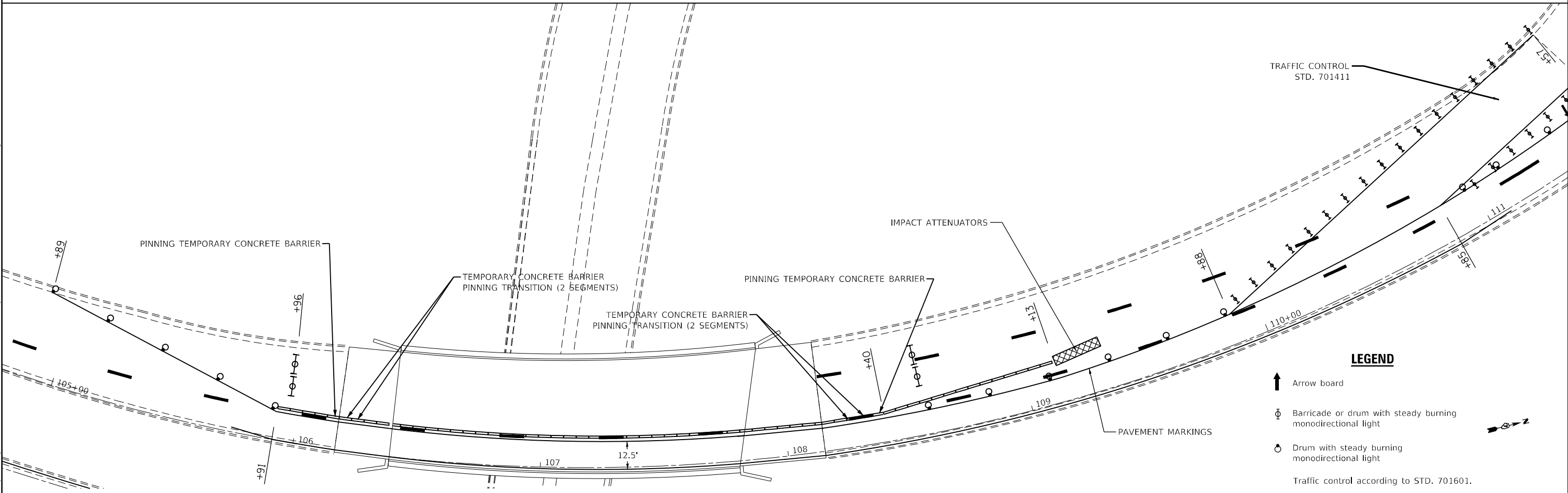
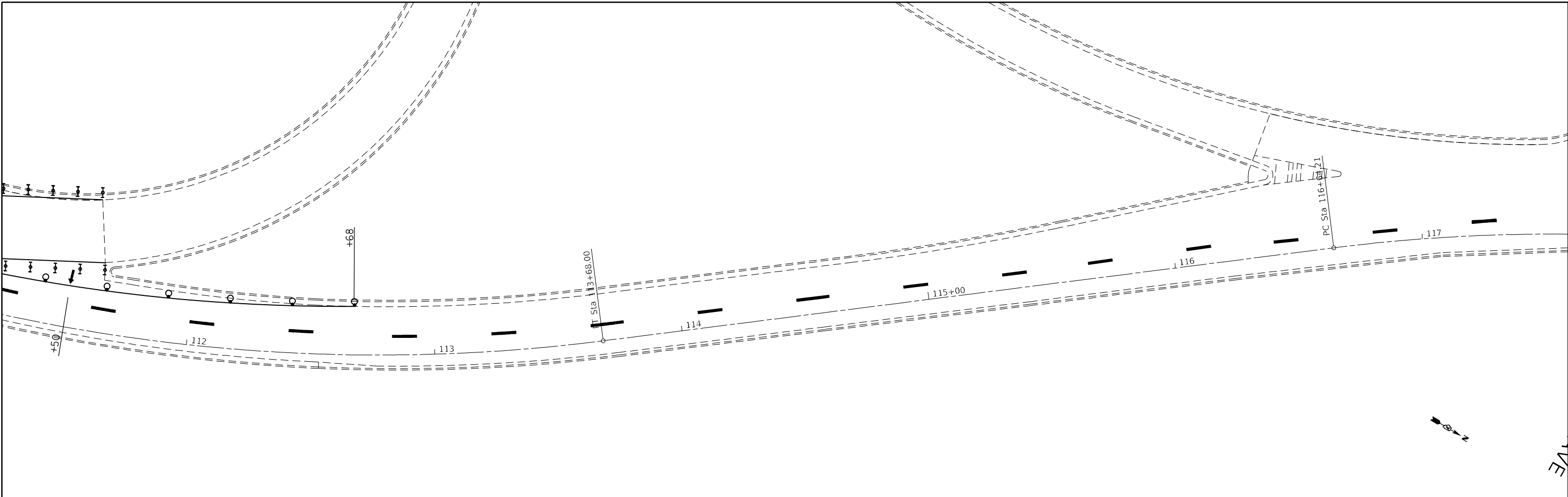
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>PLAN SHEET</b>			
SCALE:	SHEET 12	OF 12 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	31
CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				



TRAFFIC CONTROL  
STD. 701411

**LEGEND**

- ↑ Arrow board
- ⊕ Barricade or drum with steady burning monodirectional light
- Drum with steady burning monodirectional light

Traffic control according to STD. 701601.

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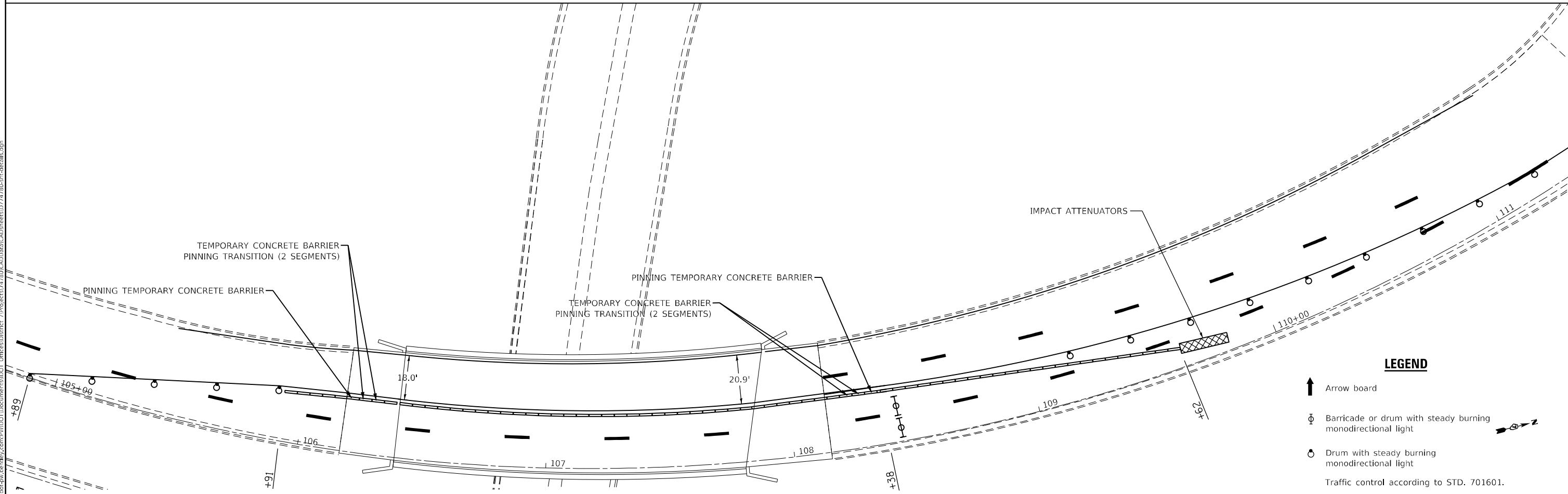
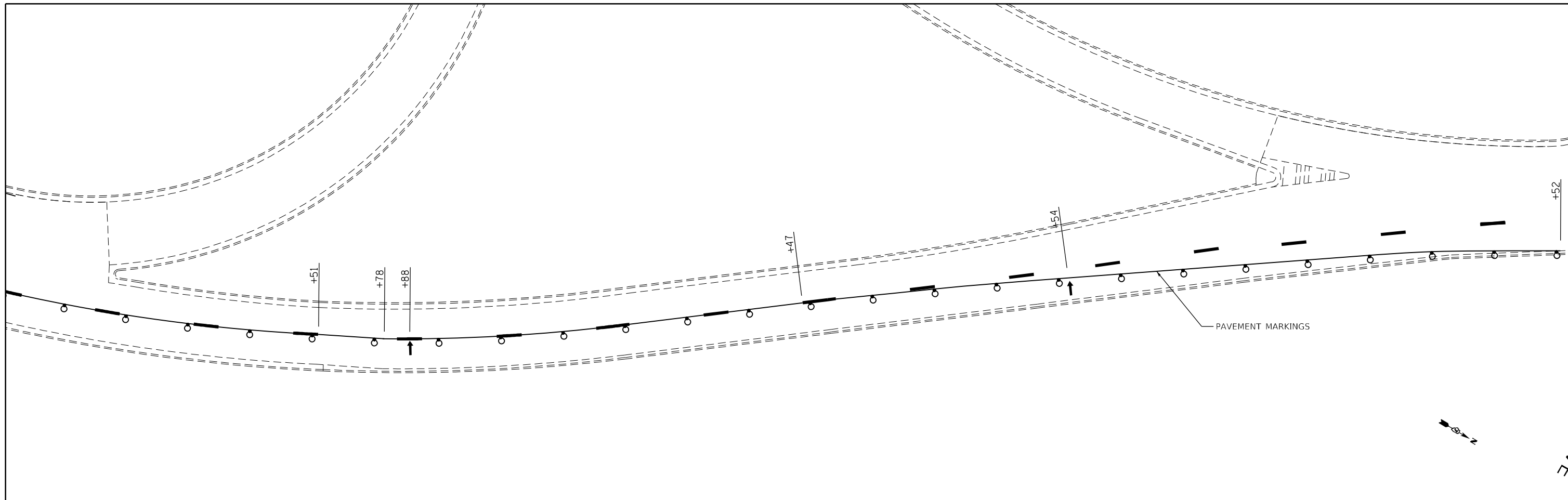
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STAGE 1 SN 058-0007 (SB)  
TRAFFIC CONTROL 701601, SPECIAL**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1,48X-2)RS-2(128)RS-3	MACON	89	32
				CONTRACT NO. 74780
ILLINOIS FED. AID PROJECT				





**LEGEND**

- ↑ Arrow board
  - ⊕ Barricade or drum with steady burning monodirectional light
  - ⊙ Drum with steady burning monodirectional light
- Traffic control according to STD. 701601.

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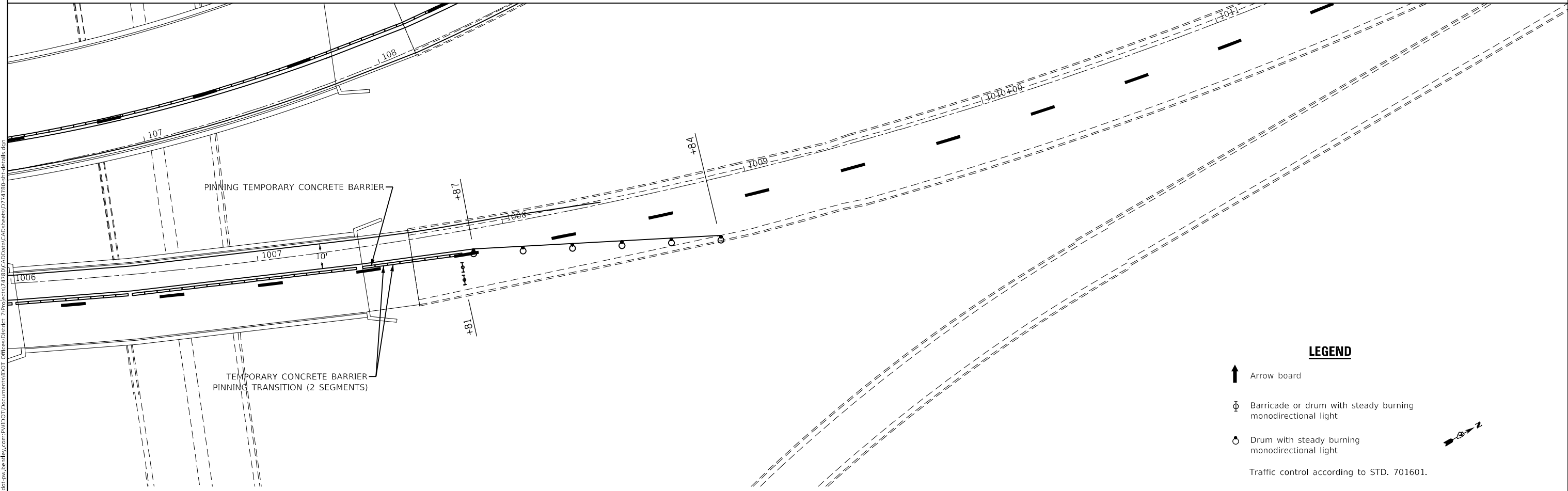
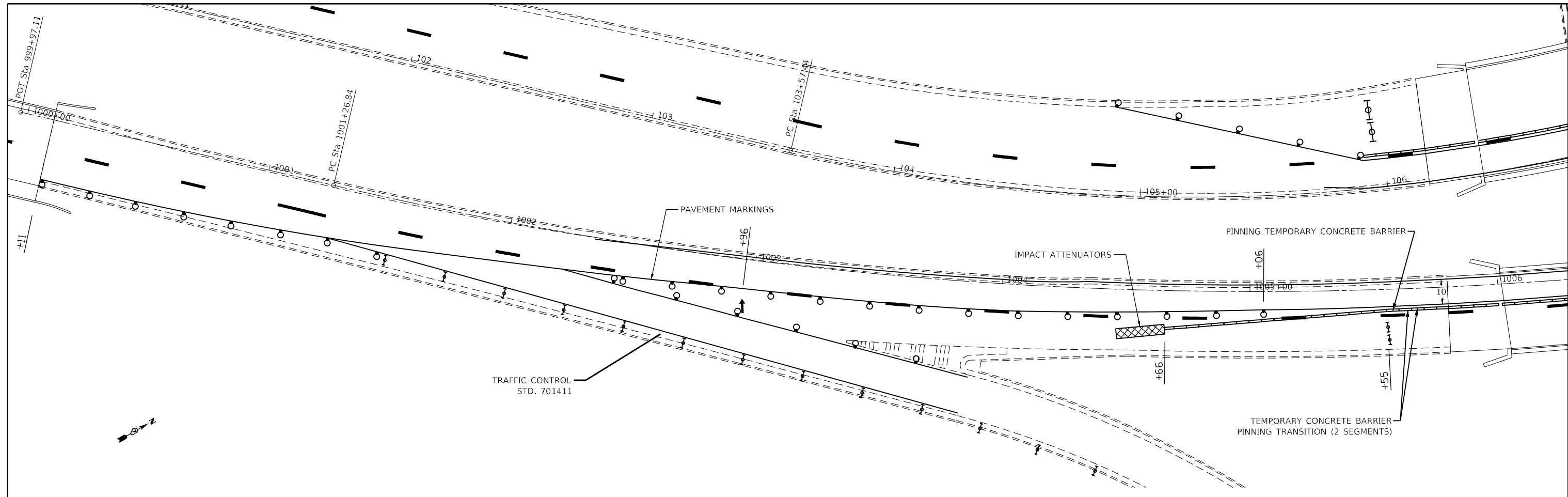
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PLOT DATE = 4/8/2022	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STAGE 2 SN 058-0007 (SB)  
TRAFFIC CONTROL 701601, SPECIAL**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1,48X-2)RS-2(128)RS-3	MACON	89	33
CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				



- LEGEND**
- ↑ Arrow board
  - ⊕ Barricade or drum with steady burning monodirectional light
  - Drum with steady burning monodirectional light
- Traffic control according to STD. 701601.

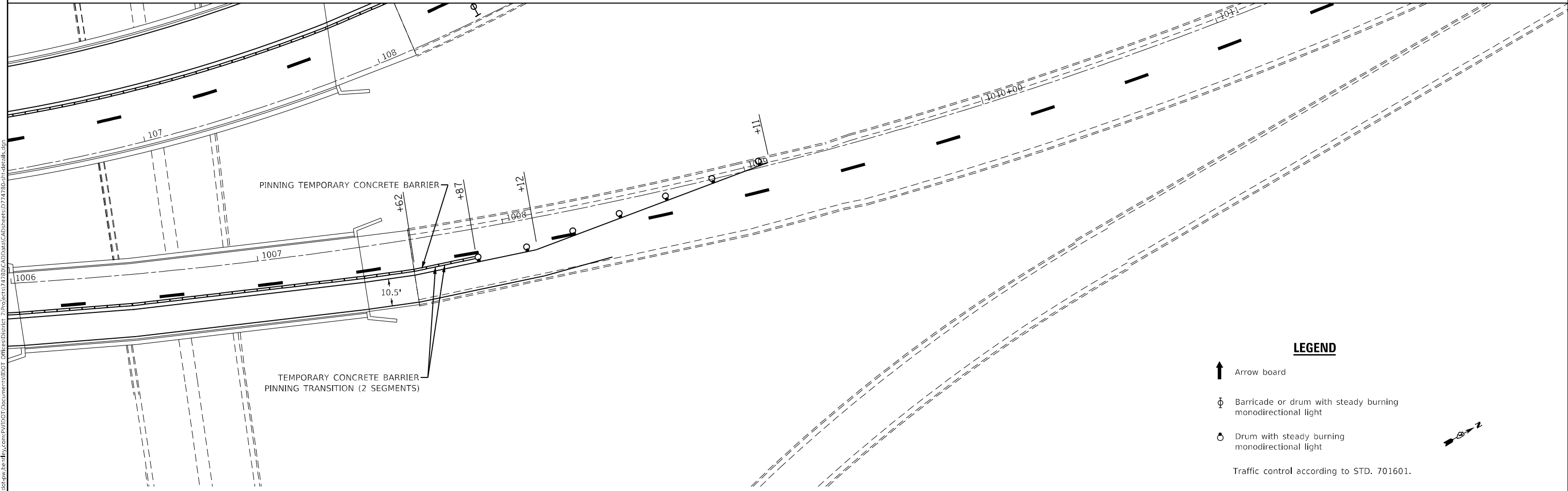
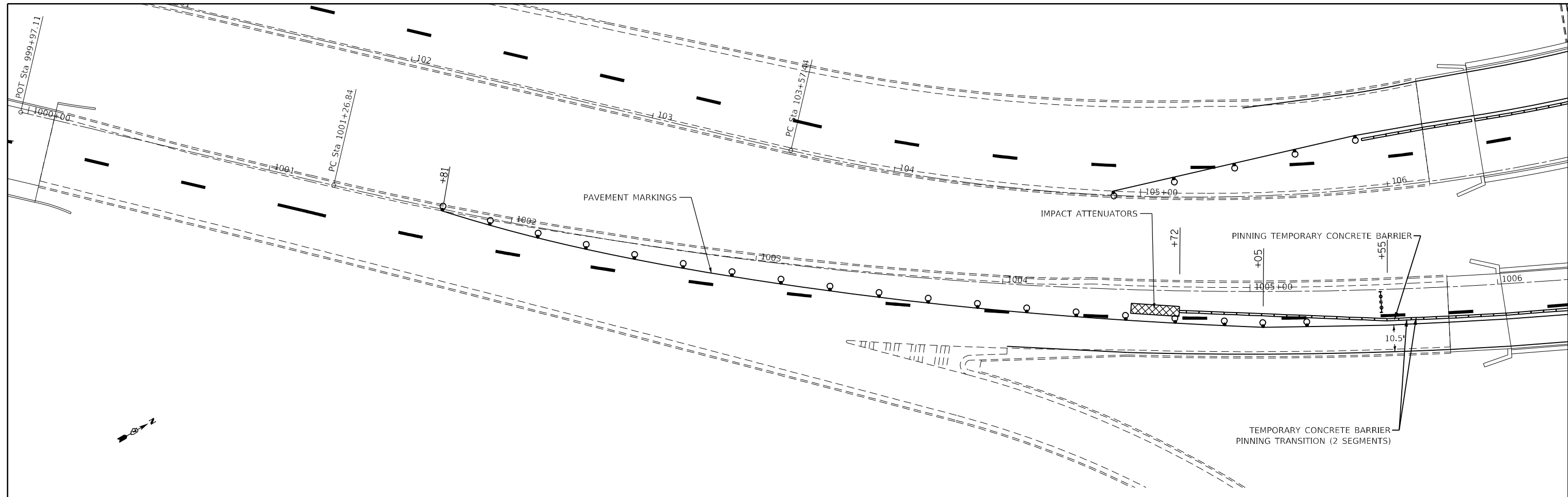
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DRAWN -	REVISOR -	REVISION -
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PLOT DATE = 4/8/2022	DATE -	REVISION -

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

<b>STAGE 1 SN 058-0008 (NB)</b> <b>TRAFFIC CONTROL 701601, SPECIAL</b>			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1,48X-2)RS-2(128)RS-3	MACON	89	34
CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				



**LEGEND**

- ↑ Arrow board
- ⊕ Barricade or drum with steady burning monodirectional light
- ⊙ Drum with steady burning monodirectional light
- Traffic control according to STD. 701601.

MODEL: Default  
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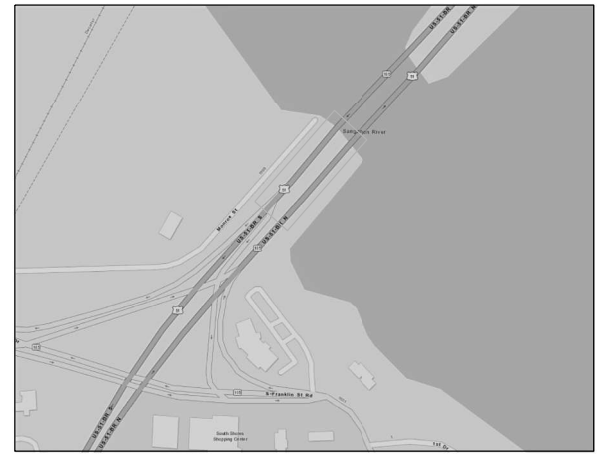
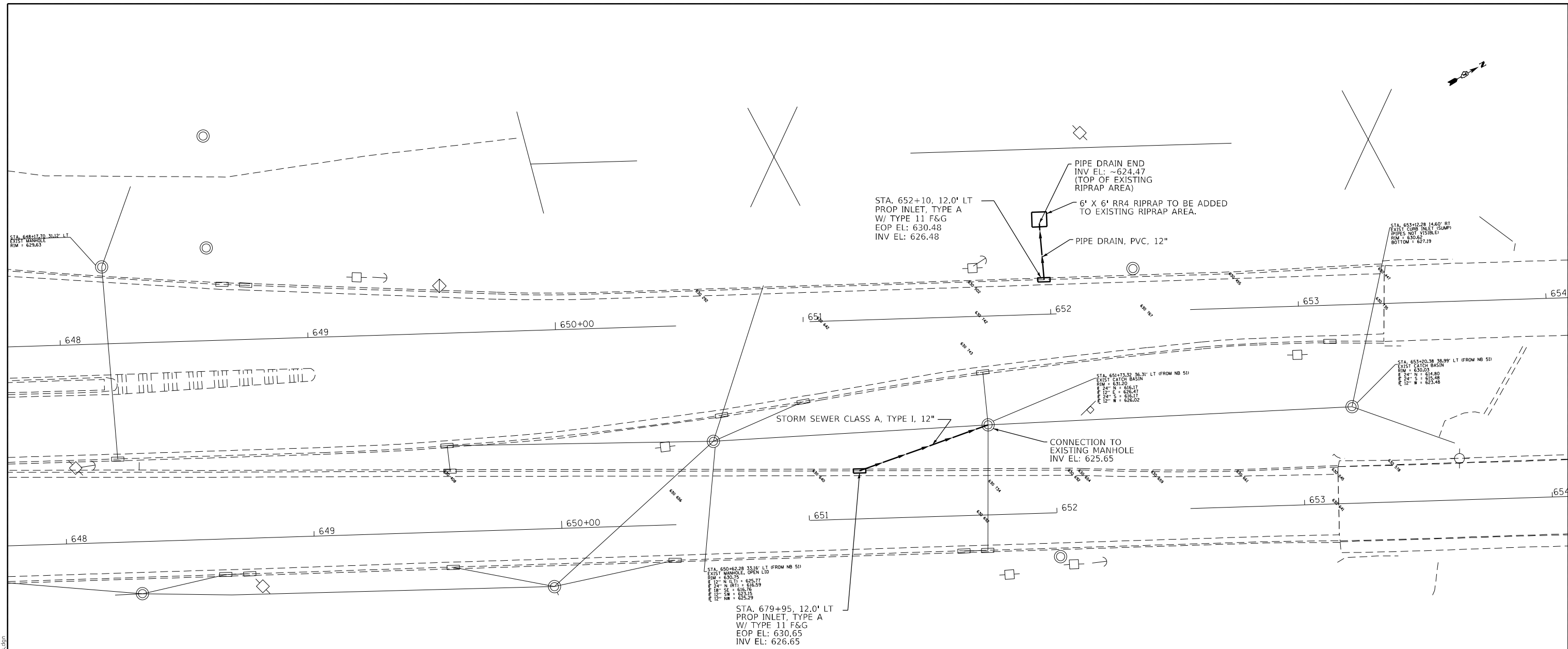
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PLOT DATE = 4/8/2022	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STAGE 2 SN 058-0008 (NB)  
TRAFFIC CONTROL 701601, SPECIAL**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1,48X-2)RS-2(128)RS-3	MACON	89	35
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74780	



**NOTES:**

EXACT LOCATIONS TO BE VERIFIED IN FIELD AS LOWEST ELEVATION PRIOR TO ORDERING STORM SEWER AND PIPE.

SMALL CENTERLINE IS FROM PREVIOUS PLANS AND FOR INFORMATION ONLY.

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	DRAWN -	REVISED -
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PLOT DATE = 4/8/2022	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

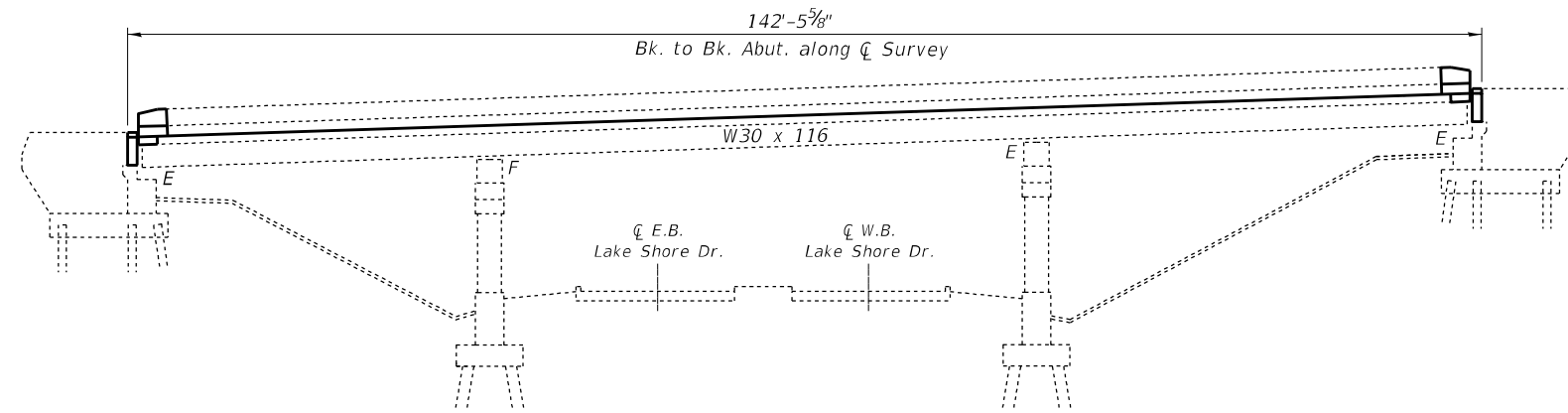
**DRAINAGE PLAN**

SCALE: SHEET OF SHEETS STA. TO STA.

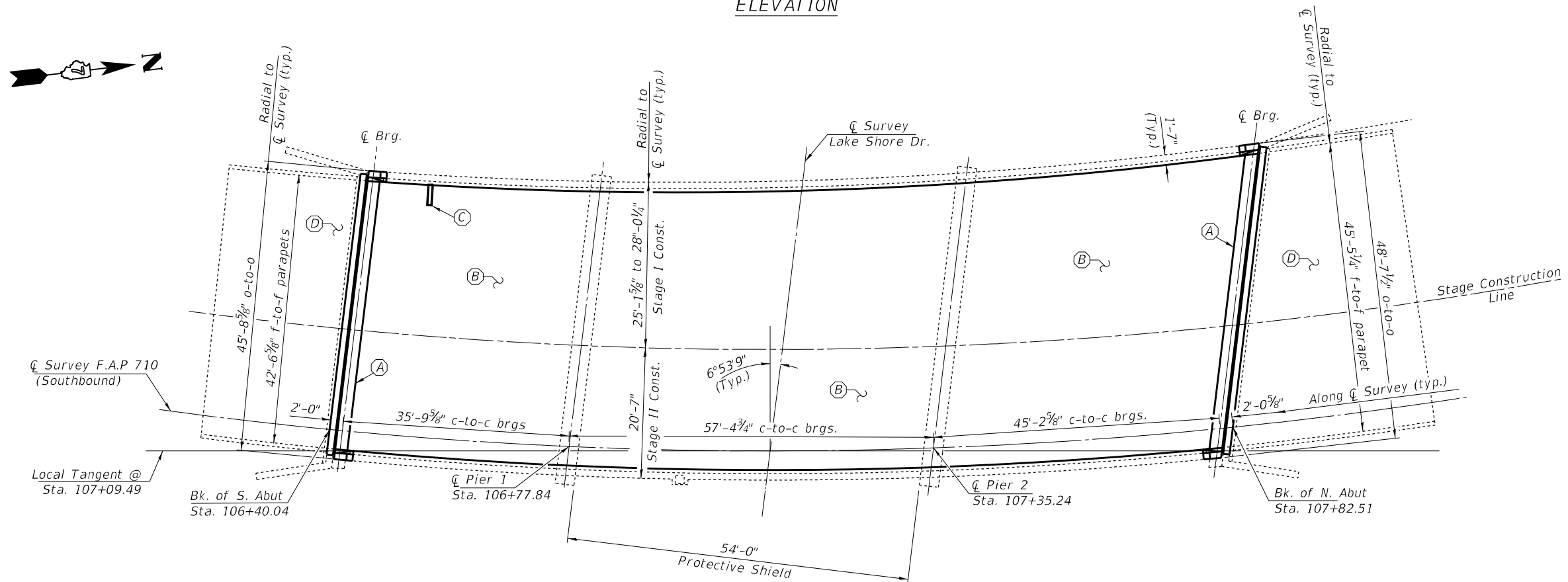
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1,48X-2)RS-2(128)RS-3	MACON	89	36
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74780	



SN 058-0007 carries Business Route 51 S.B. (FAP 710) over ILL-105 (FAP 712).  
 The existing three span, steel beam superstructure was constructed in 1991  
 and substructure was constructed in 1962.  
 The proposed project consists of replacement of the expansion joints with  
 new strip seals, structural repair of concrete piers, crashwall extensions,  
 full depth deck patching, full and partial depth approach patching,  
 slopewall repair, scarification, & concrete overlay.

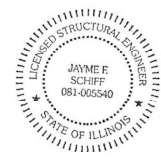


ELEVATION



PLAN

- (A) - Remove Existing Joints and Replace Existing Strip Seal Expansion Joint
- (B) - Bridge Deck Scarification, 3/4", Deck Patching, & Bridge Deck Fly Ash or GGBF Slag Concrete Overlay, 2-1/4"
- (C) - Scupper Modification
- (D) - Approach Slab Repair



EXPIRES 11-30-2022

*Jayme E. Schiff*

USER NAME - steffemk	DESIGNED - T. Walk	REVISED -
DRAWN - T. Walk	REVISED -	
PLOT SCALE = 100,0000' / in.	CHECKED - D. Macklin	REVISED -
PLOT DATE = 4/8/2022	DATE - Jan, 2021	REVISED -

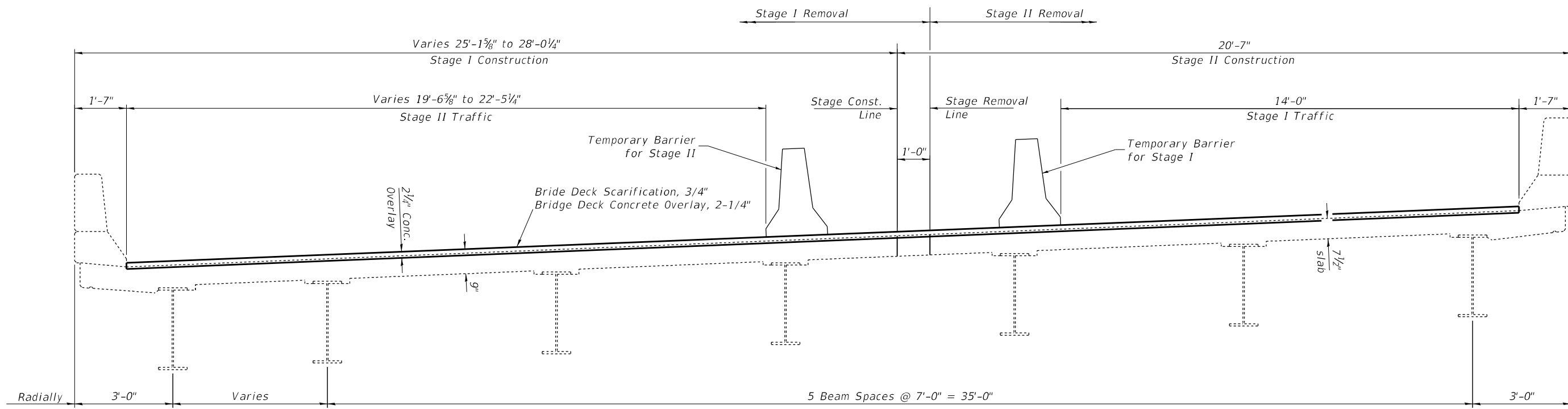
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION  
 S.N. 058-0007

SCALE: SHEET 1 OF 14 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	38
CONTRACT NO. 74780				
ILLINOIS		FED. AID PROJECT		

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**STAGE CONSTRUCTION DETAIL**  
SBL Looking North

**GENERAL NOTES**

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Reinforcement Bars designated (E) shall be epoxy coated.

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 operations shall be replaced with an approved bar splicer or anchorage system. Cost included with CONCRETE REMOVAL.

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

Removal and reinstallation of the guardrail will be necessary for construction of the expansion joints. The existing guardrail sections shall be reused. All embedded anchors that are within the concrete removal area shall be cleaned and incorporated in the new construction or new approved alternatives shall be supplied and installed. This work and all materials shall be included in the contract unit price for CONCRETE SUPERSTRUCTURE.

Protective Coat to be applied to areas of new concrete only, including bridge deck concrete overlay, slopewall repair, & crashwall extensions.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

Areas of deck repairs shown are estimated. The Engineer shall show actual locations of deck repairs on as-built plans.

Full depth deck slab repairs performed in the exterior bays of the bridge deck (between the parapet walls and the first interior beams) shall be limited to individual lengths no greater than 10'. In these portions of the deck, repair areas longer than 10' shall be divided into segments not greater than 10' in length, and the segments shall be poured in alternating sequence. Subsequent segments repaired in sequence shall not be removed until 72 hours shall have elapsed from the end of the previous, adjacent pour, and the adjacent pour shall have attained a minimum modulus of rupture of 650psi.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	15.0
Concrete Superstructure	Cu. Yd.	16.0
Protective Coat	Sq. Yd.	780
Reinforcement Bars, Epoxy Coated	Pound	3,545
Bridge Deck Grooving	Sq. Yd.	650
Bridge Deck Scarification, 3/4"	Sq. Yd.	675
Bridge Deck Fly Ash or GGBF Slag Concrete Overlay, 2-1/4"	Sq. Yd.	675
Preformed Joint Strip Seal	Foot	93
Approach Slab Repair (Full Depth)	Sq. Yd.	13.0
Approach Slab Repair (Partial Depth)	Sq. Yd.	6.0
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	16.0
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	13.0
Structural Repair of Concrete (Depth ≤ 5")	Sq. Ft.	65
Protective Shield	Sq. Yd.	285
Concrete Structures	Cu. Yd.	15.2
Slope Wall Removal	Sq. Yd.	8.0
Slope Wall 6 Inch	Sq. Yd.	8.0
Subbase Granular Material, Type B	TON	6.0
Bar Splicers	EACH	28
Drainage Scupper To Be Adjusted	EACH	1

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PLOT DATE = 4/8/2022	DATE - Jan, 2021	REVISED -

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

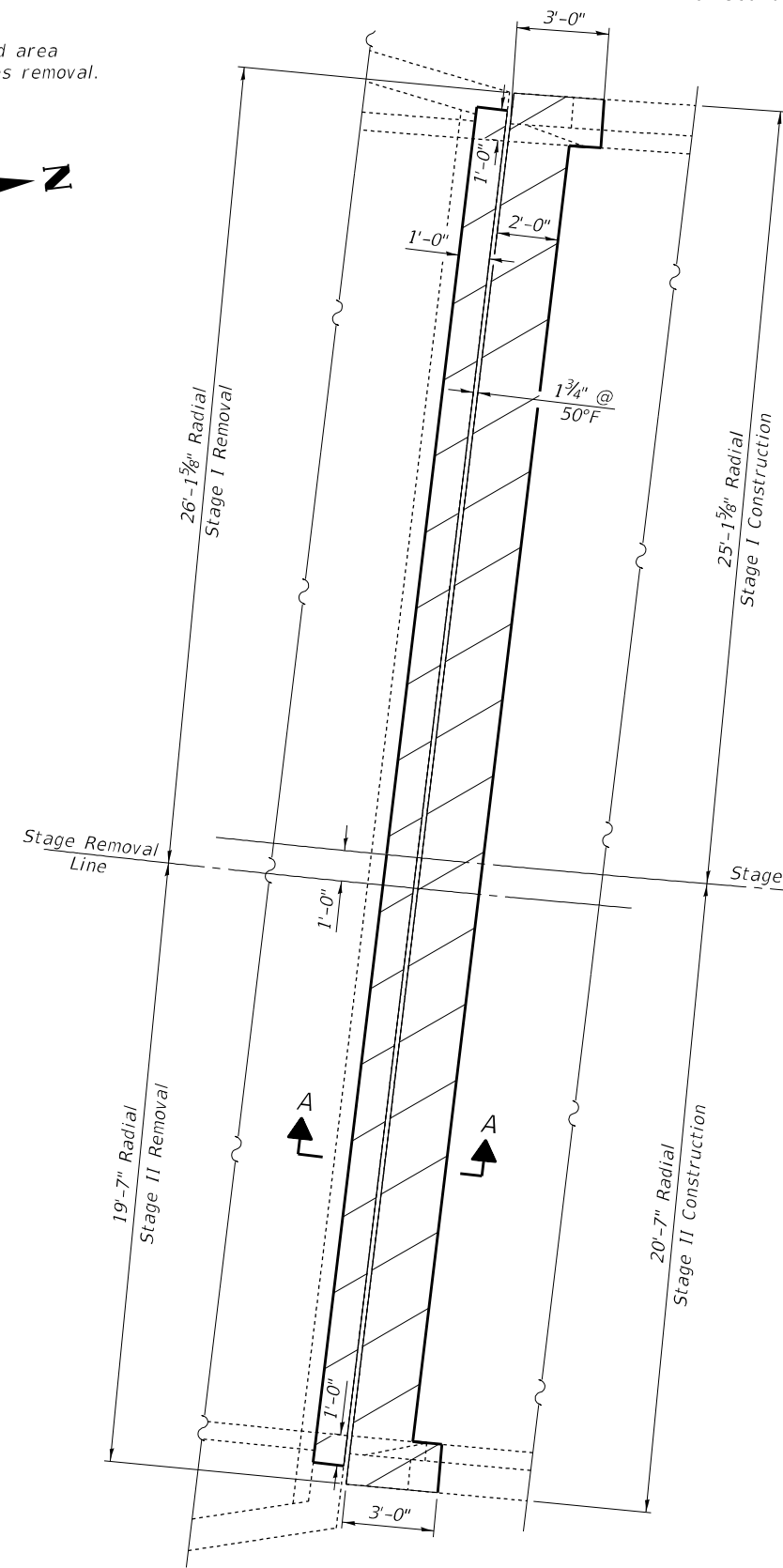
**GENERAL NOTES & BILL OF MATERIALS**  
**S.N. 058-0007**

SCALE: SHEET 2 OF 14 SHEETS STA. TO STA.

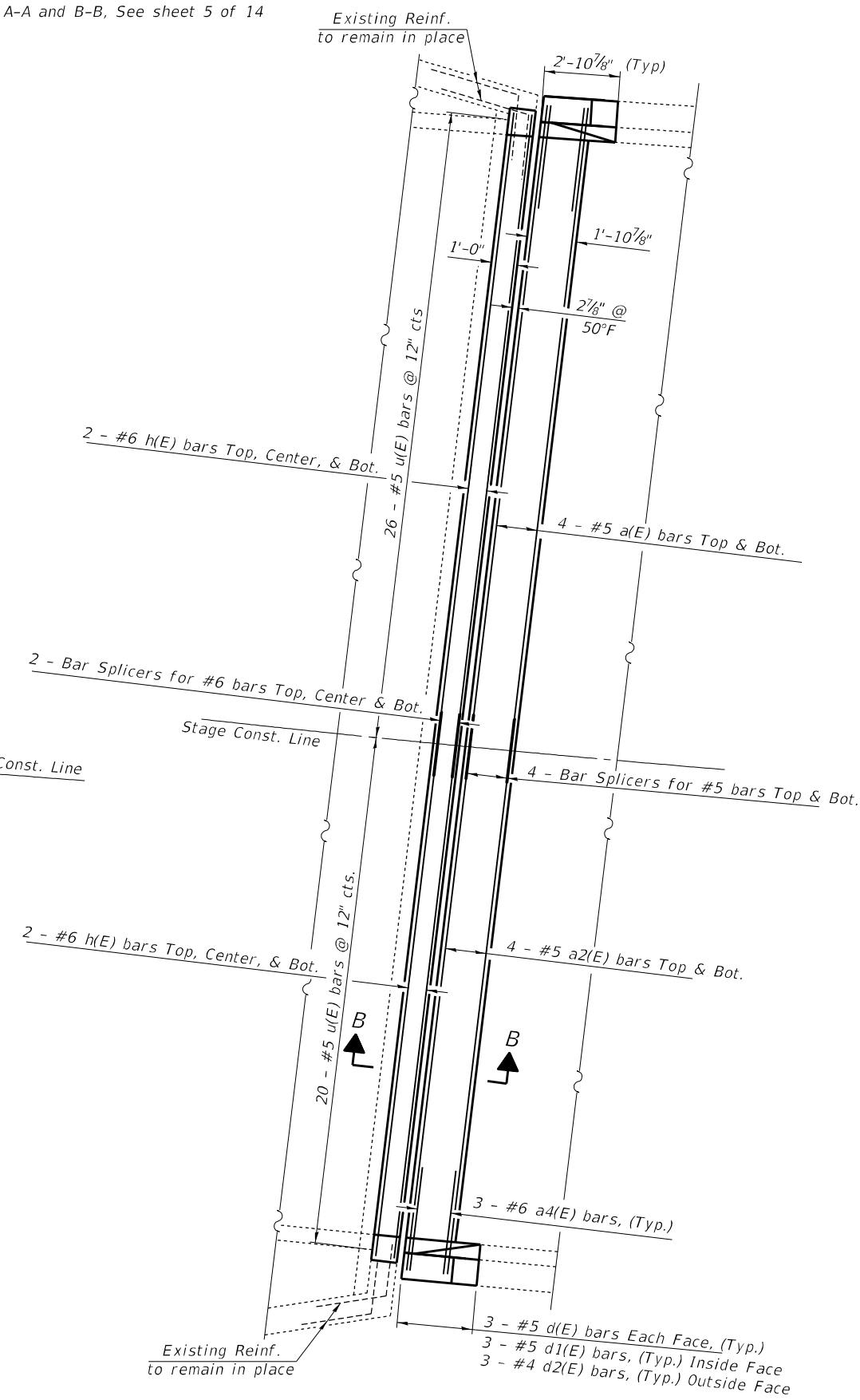
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710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	39
CONTRACT NO. 74780			ILLINOIS FED. AID PROJECT	

For Section A-A and B-B, See sheet 5 of 14

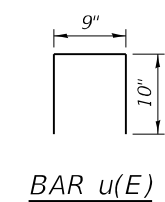
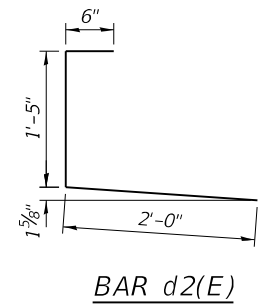
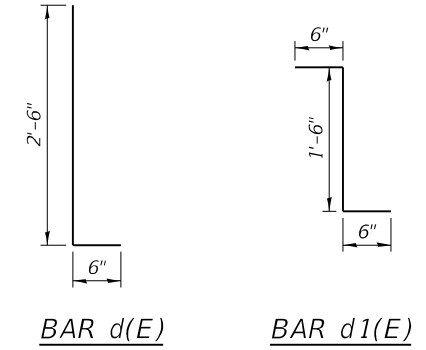
Note: Hatched area indicates removal.



**REMOVAL PLAN**  
South Abutment



**REINFORCEMENT PLAN**  
South Abutment



**BILL OF MATERIAL - SOUTH ABUT.**

Bar	No.	Size	Length	Shape
a(E)	8	#5	23'-6"	—
a2(E)	8	#5	19'-0"	—
a4(E)	6	#6	4'-0"	—
d(E)	12	#5	3'-0"	┌
d1(E)	6	#5	2'-6"	┌
d2(E)	6	#4	3'-11"	┌
h(E)	6	#6	24'-2"	—
h2(E)	6	#6	19'-7"	—
u(E)	46	#5	2'-5"	U
ITEM		UNIT	QUANTITY	
Concrete Removal		Cu. Yd.	7.3	
Concrete Superstructure		Cu. Yd.	7.8	
Reinforcement Bars, Epoxy Coated		Pound	970	
Bar Splicers		Each	14	

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DRAWN - T. Walk	REVISED -	
CHECKED - D. Macklin	REVISED -	
DATE - Jan, 2021	REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EXPANSION JOINT REPLACEMENT DETAIL**  
**SOUTH ABUTMENT S.N. 058-0007**

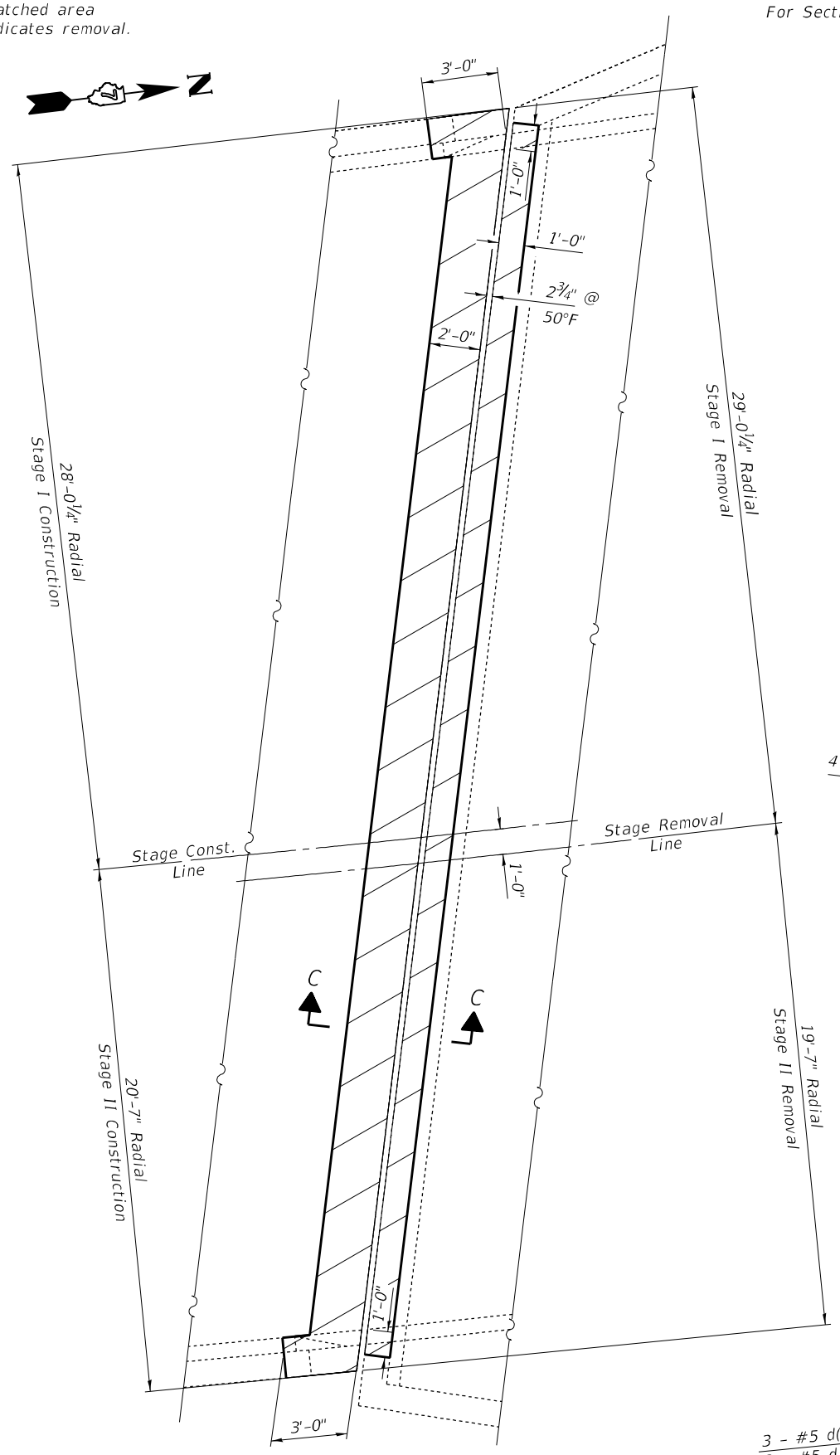
SCALE: SHEET 3 OF 14 SHEETS STA. TO STA.

F.A.P. RTE. 710	SECTION (48X-1, 48X-2)RS-2(128)RS-3	COUNTY MACON	TOTAL SHEETS 89	SHEET NO. 40
CONTRACT NO. 74780			ILLINOIS FED. AID PROJECT	



Note: Hatched area indicates removal.

For Section C-C and D-D, See sheet 5 of 14



**REMOVAL PLAN**  
North Abutment



**REINFORCEMENT PLAN**  
North Abutment

**BILL OF MATERIAL- NORTH ABUT.**

Bar	No.	Size	Length	Shape
a1(E)	8	#5	27'-2"	—
a3(E)	8	#5	19'-6"	—
a4(E)	6	#6	4'-0"	—
d(E)	12	#5	3'-0"	⌋
d1(E)	6	#5	2'-6"	⌋
d2(E)	6	#4	3'-11"	⌋
h1(E)	6	#6	27'-8"	—
h3(E)	6	#6	20'-3"	—
u(E)	49	#5	2'-5"	⌋
ITEM	UNIT	QUANTITY		
Concrete Removal	Cu. Yd.	7.7		
Concrete Superstructure	Cu. Yd.	8.2		
Reinforcement Bars, Epoxy Coated	Pound	1,050		
Bar Splicers	Each	14		

MODEL: Default  
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PLOT DATE = 4/8/2022	CHECKED - D. Macklin	REVISED -
	DATE - Jan. 2021	REVISED -

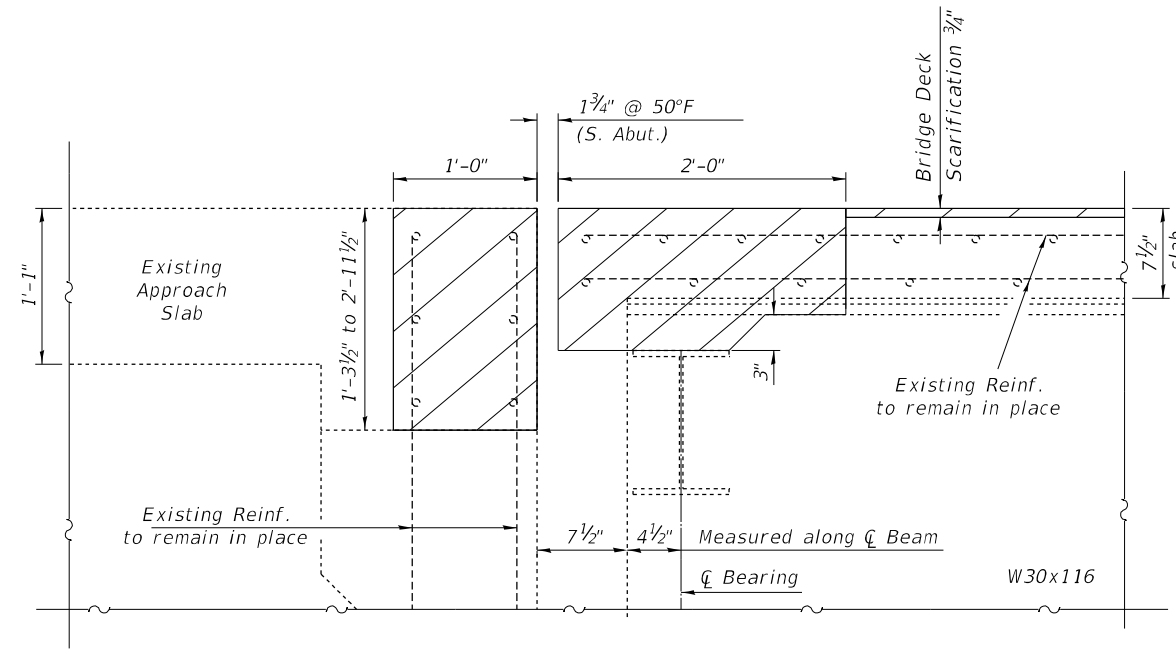
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EXPANSION JOINT REPLACEMENT DETAIL  
NORTH ABUTMENT S.N. 058-0007**

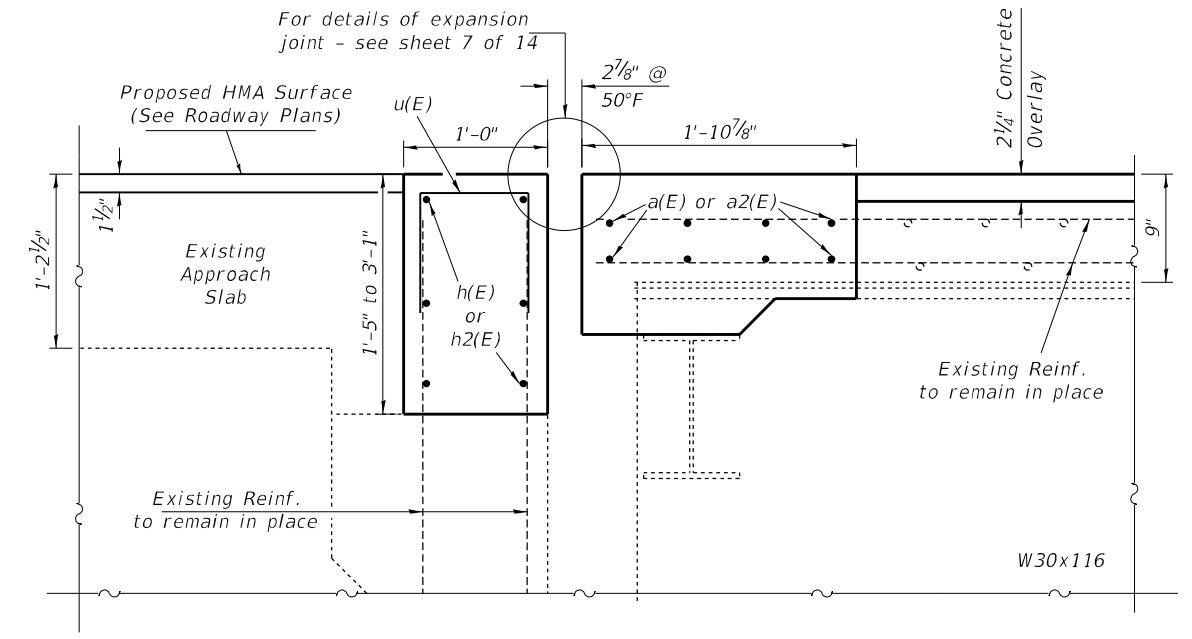
SCALE: SHEET 4 OF 14 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	41
CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				

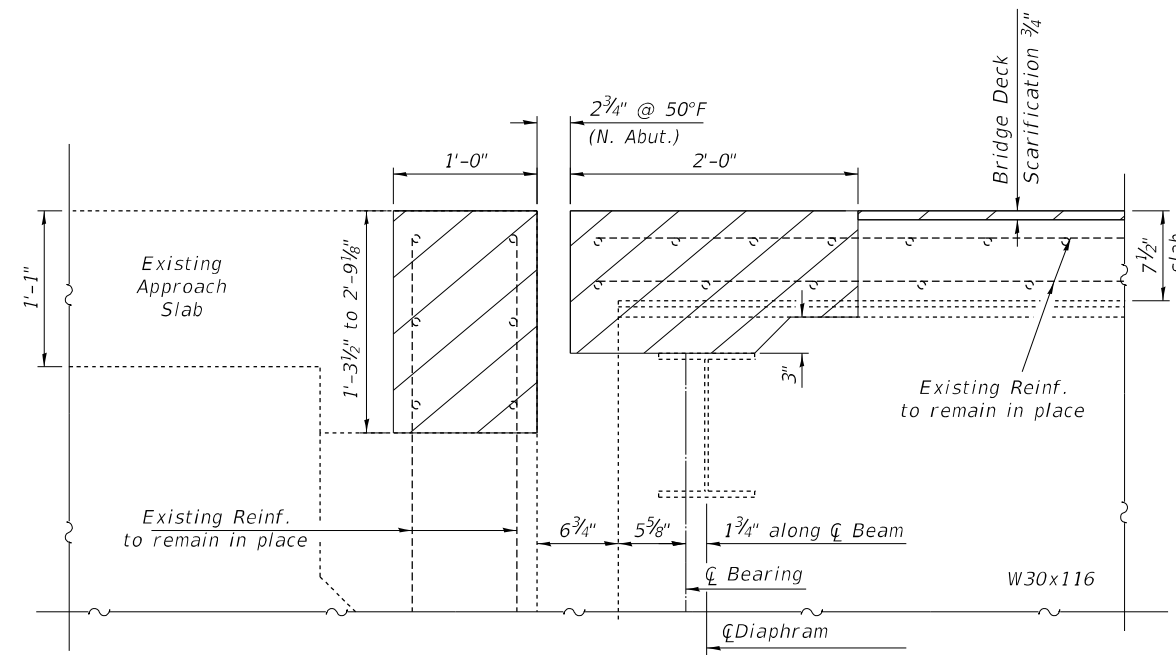
Note: Hatched areas indicates Concrete removal



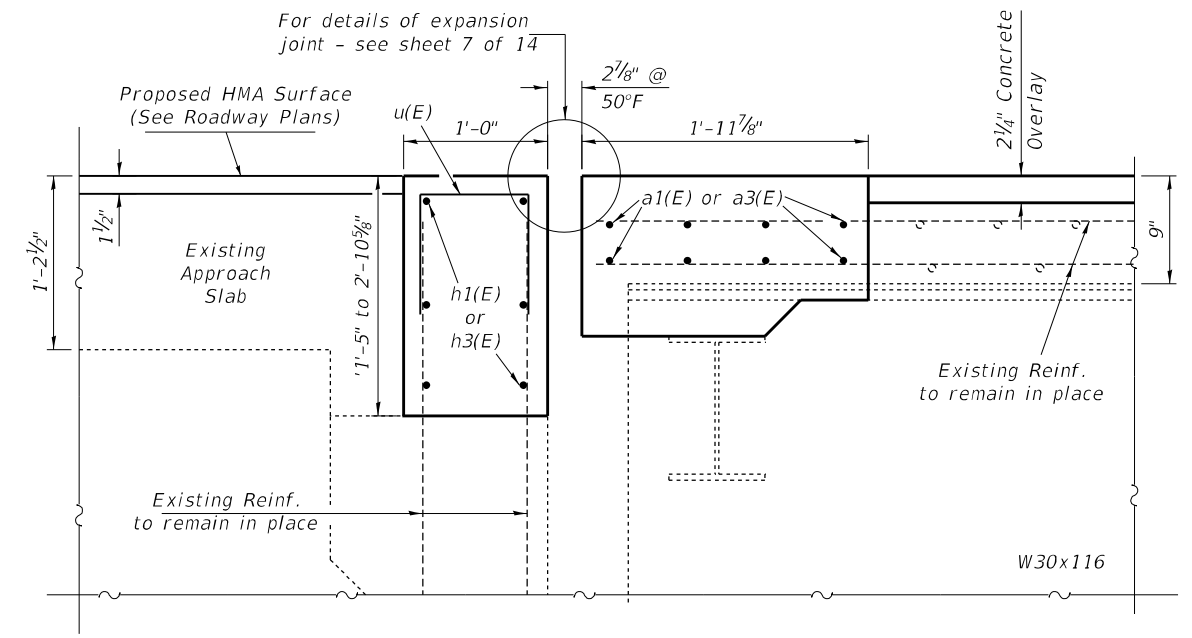
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

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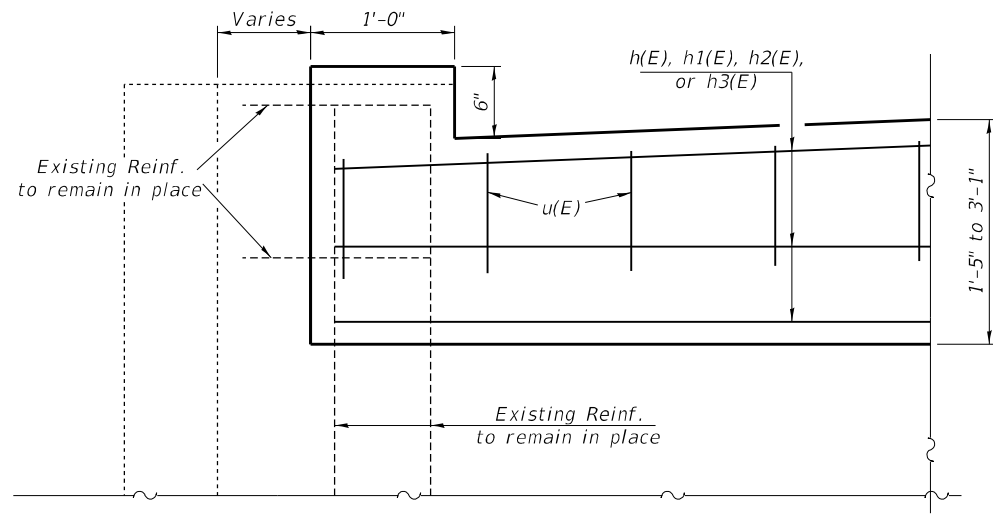
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PLOT DATE = 4/8/2022	DATE - Jan, 2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

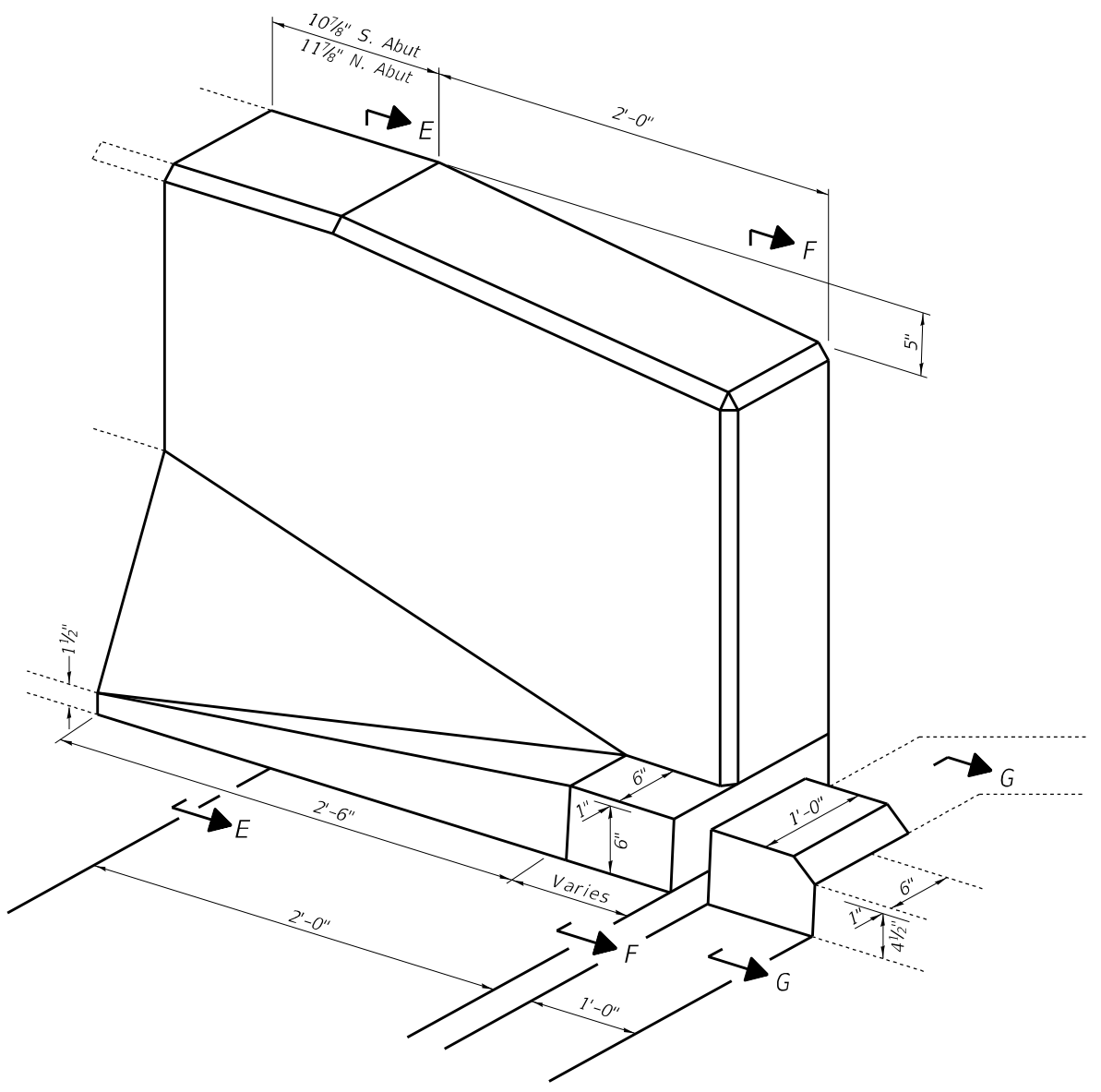
**EXPANSION JOINT REPLACEMENT DETAILS  
S.N. 058-0007**

SCALE: SHEET 5 OF 14 SHEETS STA. TO STA.

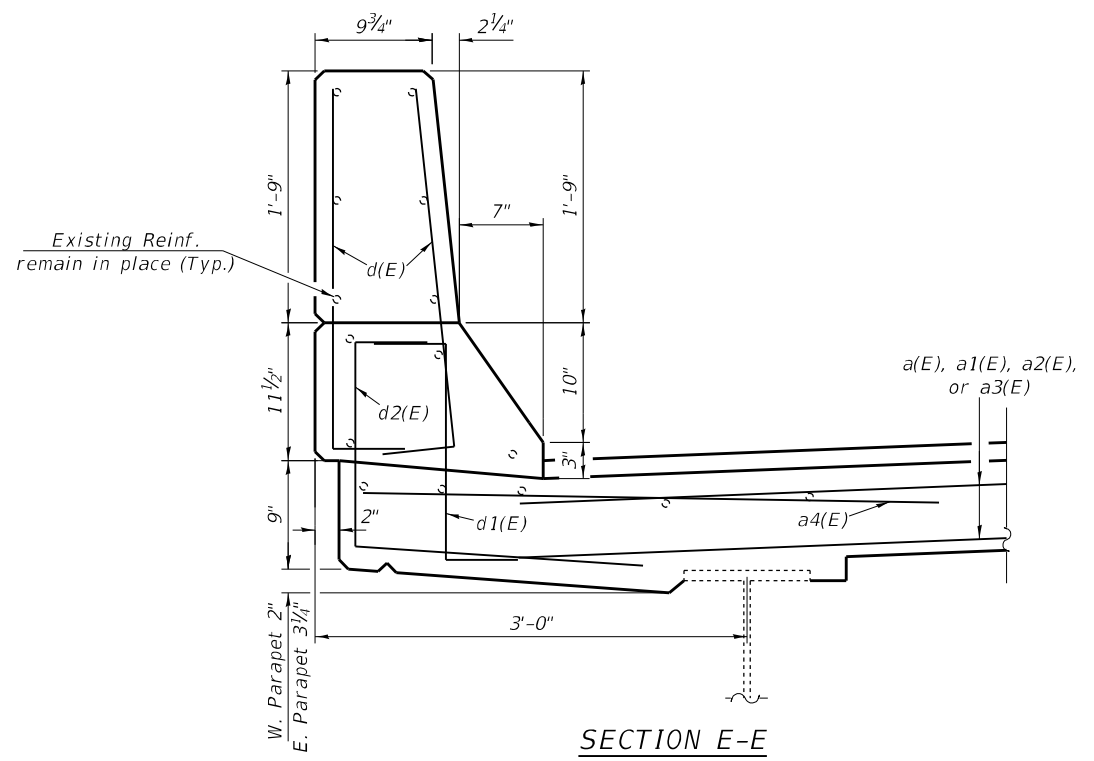
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710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	42
CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				



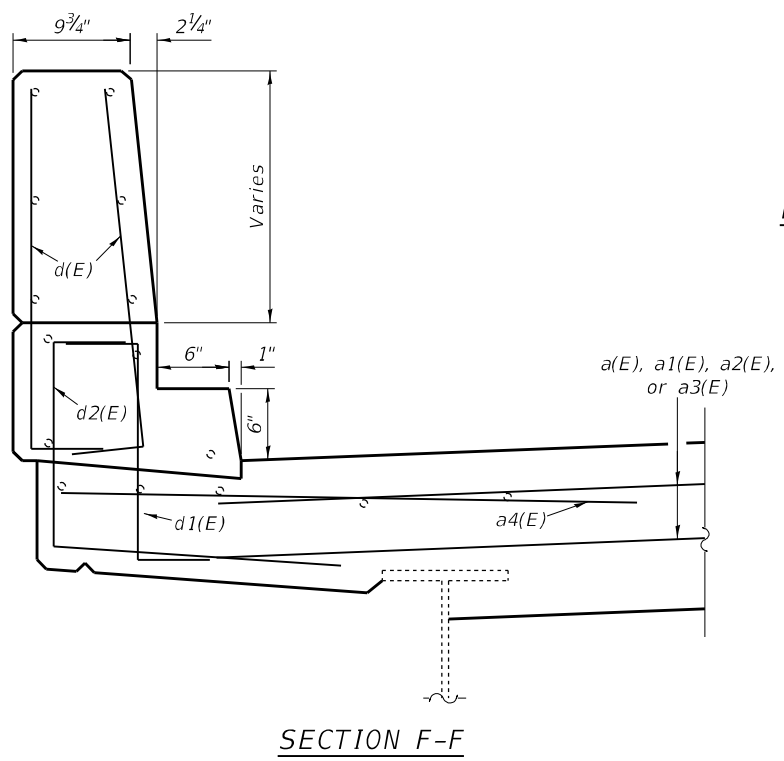
SECTION G-G



END OF PARAPET TRANSITION DETAIL



SECTION E-E



SECTION F-F

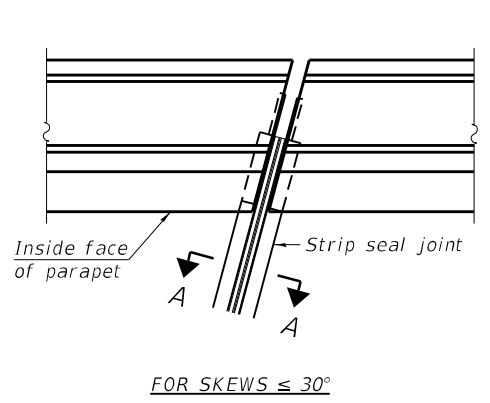
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 DESIGNED - T. Walk  
 DRAWN - T. Walk  
 CHECKED - D. Macklin  
 DATE - Jan, 2021  
 REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

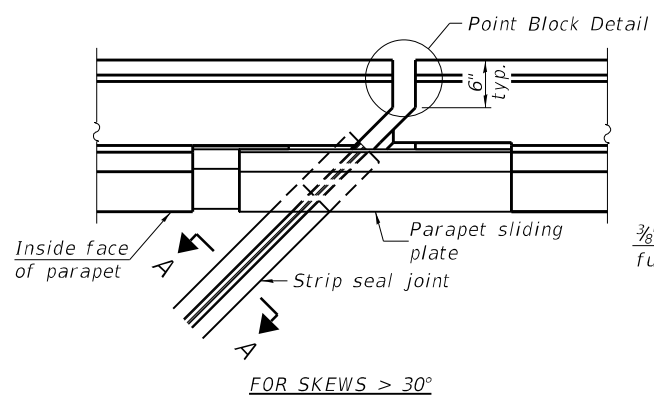
EXPANSION JOINT REPLACEMENT DETAILS  
S.N. 058-0007

SCALE: SHEET 6 OF 14 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	43
CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				

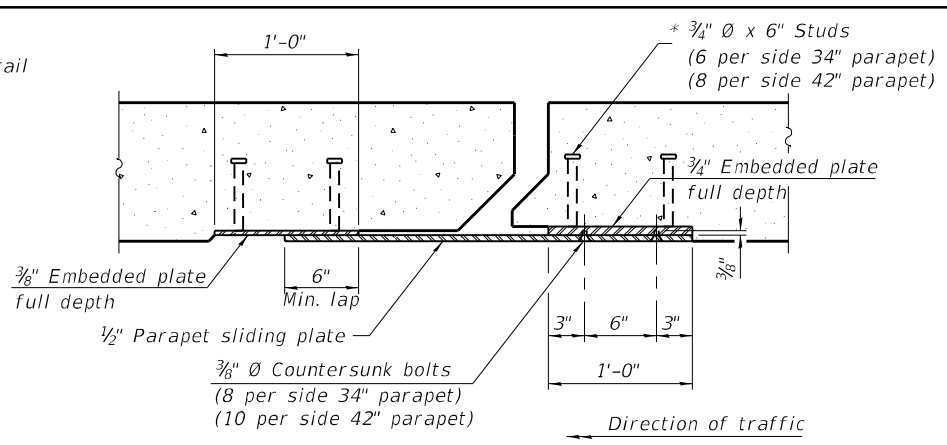


FOR SKEWS  $\leq 30^\circ$

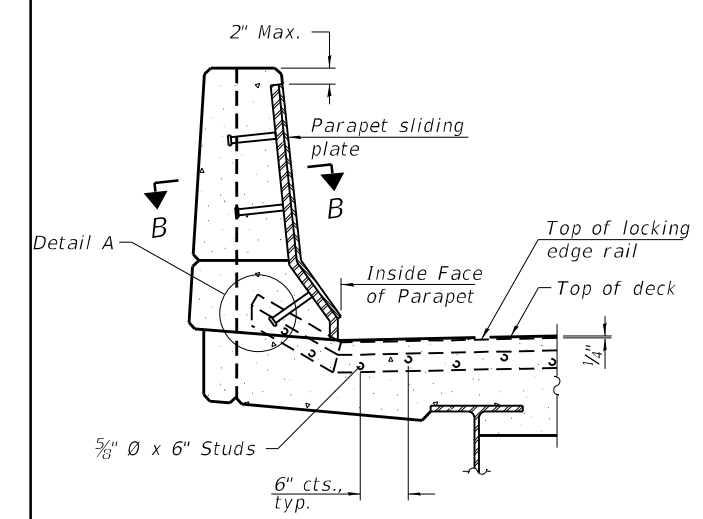


FOR SKEWS  $> 30^\circ$

**PLAN AT PARAPET**

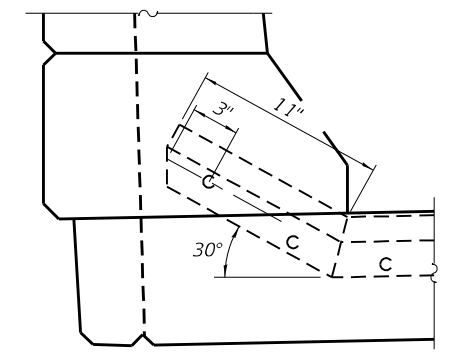


**SECTION B-B**

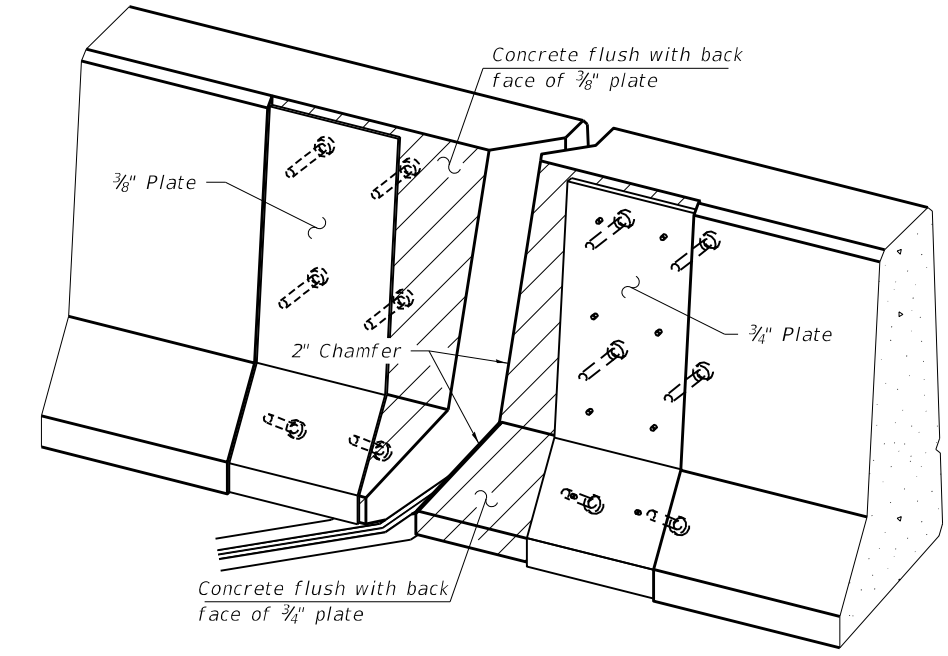


**ELEVATION AT PARAPET**

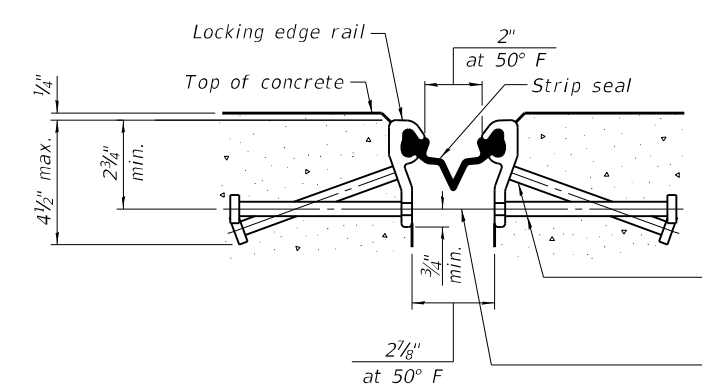
(Skews  $> 30^\circ$  shown. Skews  $\leq 30^\circ$  similar except as shown in plan view.)



**DETAIL A**



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



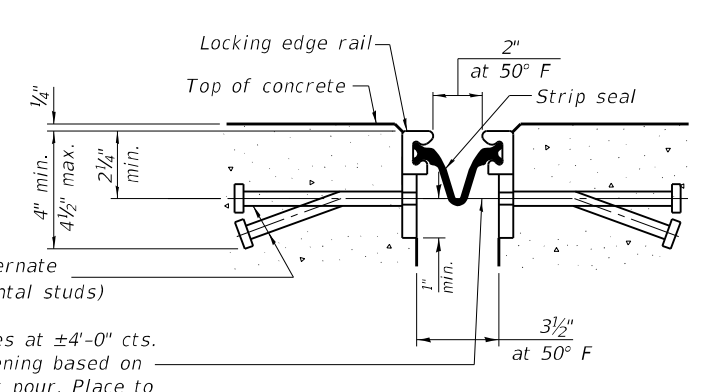
**SHOWING ROLLED RAIL JOINT**

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

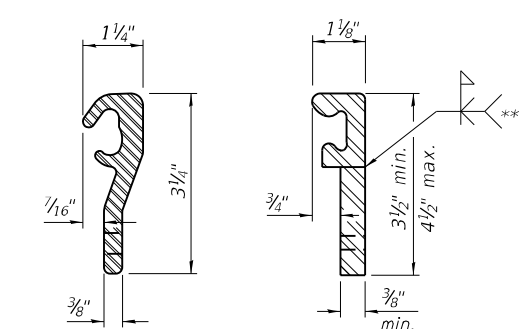
$3/8"$   $\phi$  threaded rods in  $7/16"$   $\phi$  holes at  $\pm 4"-0"$  cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

**SECTION A-A**

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

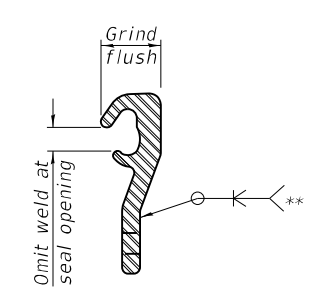


**SHOWING WELDED RAIL JOINT**



**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	93

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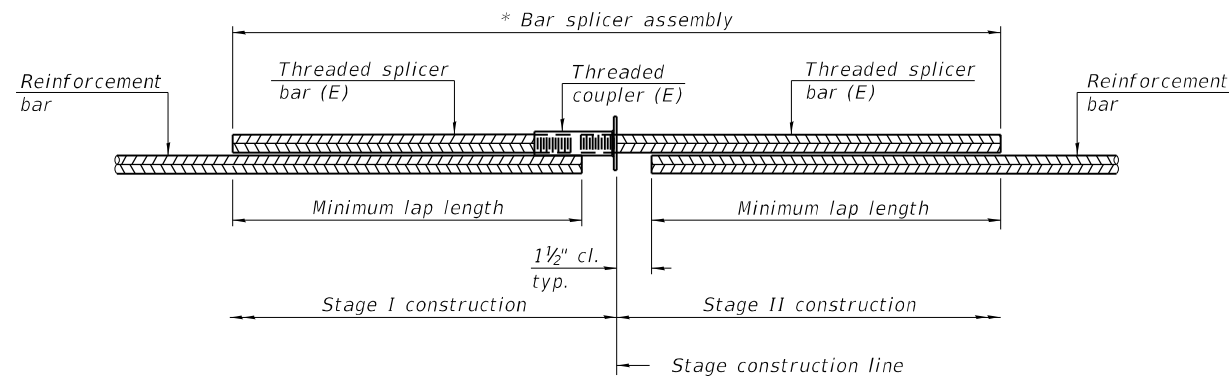
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PLOT DATE = 4/8/2022	CHECKED - D. Macklin	REVISED -
	DATE - Jan, 2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PREFORMED JOINT STRIP SEAL  
S.N. 058-0007**

SCALE: SHEET 7 OF 14 SHEETS STA. TO STA.

F.A.P. RTE. 710	SECTION (48X-1, 48X-2)RS-2(128)RS-3	COUNTY MACON	TOTAL SHEETS 89	SHEET NO. 44
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74780	

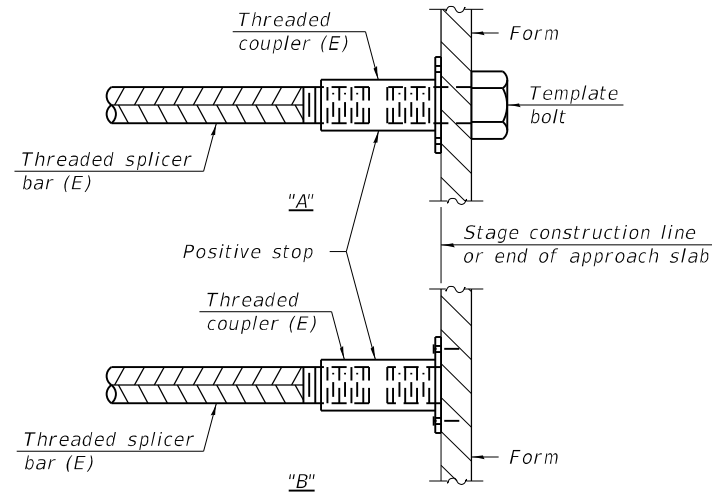


**STANDARD BAR SPLICER ASSEMBLY PLAN**  
 (All components shall be provided from one supplier)

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

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

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

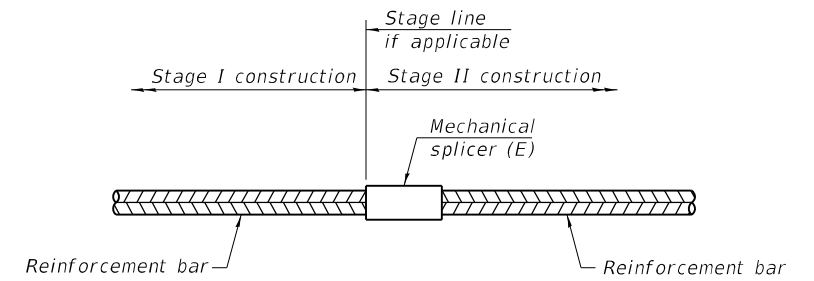


**INSTALLATION AND SETTING METHODS**

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

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

(E) : Indicates epoxy coating.



**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.

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BSD-1

1-1-2020

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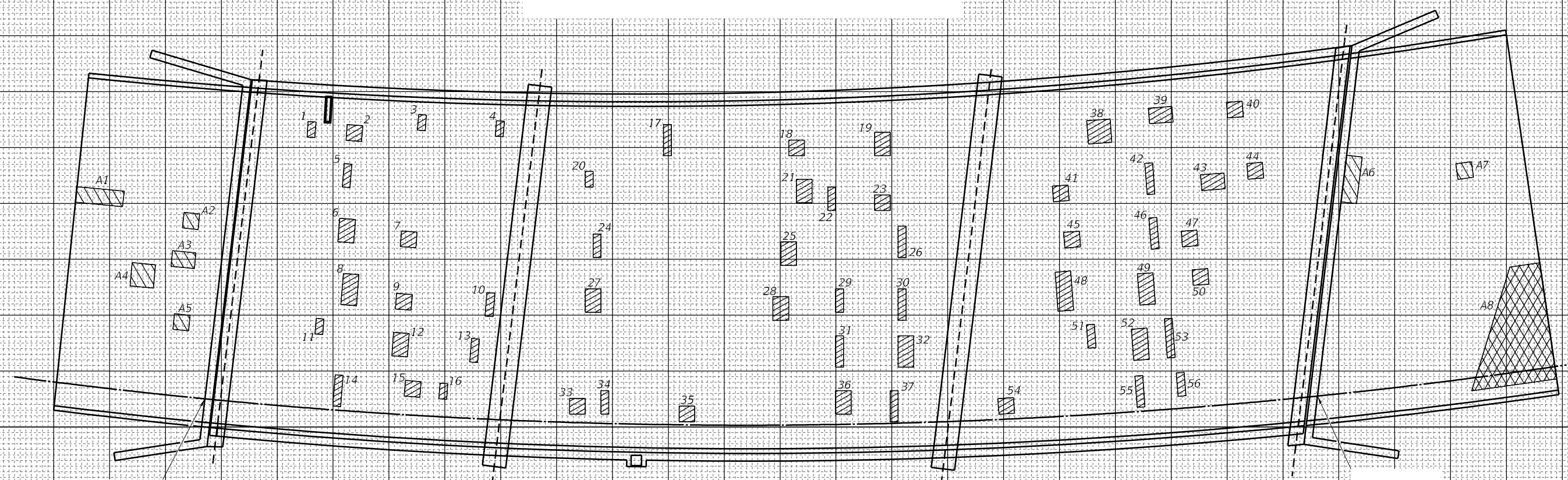
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
 STRUCTURE NO. 058-0007**

SCALE: SHEET 8 OF 14 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	45
				CONTRACT NO. 74780
		ILLINOIS	FED. AID PROJECT	

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PATCH	SIZE		DECK SLAB REPAIR (FD TY I)	DECK SLAB REPAIR (FD TY II)
NO.	LENGTH	WIDTH	SQ YD	SQ YD
1	1.0	2.0	0.2	
2	2.0	2.0	0.4	
3	1.0	2.0	0.2	
4	1.0	2.0	0.2	
5	1.0	3.0	0.3	
6	2.0	3.0		0.7
7	2.0	2.0	0.4	
8	2.0	4.0		0.9
9	2.0	2.0	0.4	
10	1.0	3.0	0.3	
11	1.0	2.0	0.2	
12	2.0	3.0		0.7
13	1.0	3.0	0.3	
14	1.0	4.0	0.4	
15	2.0	2.0	0.4	
16	1.0	2.0	0.2	

PATCH	SIZE		DECK SLAB REPAIR (FD TY I)	DECK SLAB REPAIR (FD TY II)
NO.	LENGTH	WIDTH	SQ YD	SQ YD
17	1.0	4.0	0.4	
18	2.0	2.0	0.4	
19	2.0	3.0		0.7
20	1.0	2.0	0.2	
21	2.0	3.0		0.7
22	1.0	3.0	0.3	
23	2.0	2.0	0.4	
24	1.0	3.0	0.3	
25	2.0	3.0		0.7
26	1.0	4.0	0.4	
27	2.0	3.0		0.7
28	2.0	3.0		0.7
29	1.0	3.0	0.3	
30	1.0	4.0	0.4	
31	1.0	4.0	0.4	
32	2.0	4.0		0.9

PATCH	SIZE		DECK SLAB REPAIR (FD TY I)	DECK SLAB REPAIR (FD TY II)
NO.	LENGTH	WIDTH	SQ YD	SQ YD
33	2.0	2.0	0.4	
34	1.0	3.0	0.3	
35	2.0	2.0	0.4	
36	2.0	3.0		0.7
37	1.0	4.0	0.4	
38	3.0	3.0		1.0
39	3.0	2.0		0.7
40	2.0	2.0	0.4	
41	2.0	2.0	0.4	
42	1.0	4.0	0.4	
43	3.0	2.0		0.7
44	2.0	2.0	0.4	
45	2.0	2.0	0.4	
46	1.0	4.0	0.4	
47	2.0	2.0	0.4	
48	2.0	5.0		1.1

PATCH	SIZE		DECK SLAB REPAIR (FD TY I)	DECK SLAB REPAIR (FD TY II)
NO.	LENGTH	WIDTH	SQ YD	SQ YD
49	2.0	4.0		0.9
50	2.0	2.0	0.4	
51	1.0	3.0	0.3	
52	2.0	4.0		0.9
53	1.0	5.0	0.6	
54	2.0	2.0	0.4	
55	1.0	4.0	0.4	
56	1.0	3.0	0.3	
TOTALS			15.6	12.3
ROUND TO:			16.0	13.0

PATCH	SIZE		APPROACH SLAB REPAIR (PARTIAL DEPTH)	APPROACH SLAB REPAIR (FULL DEPTH)
NO.	LENGTH	WIDTH	SQ YD	SQ YD
A1	6.0	2.0	1.3	
A2	2.0	2.0	0.4	
A3	3.0	2.0	0.7	
A4	3.0	3.0	1.0	
A5	2.0	2.0	0.4	
A6	2.0	6.0	1.3	
A7	2.0	2.0	0.4	
A8	4.0-11.0	15.0		12.5
TOTALS			5.7	12.5
ROUND TO:			6.0	13.0

**ESTIMATED PAY QUANTITIES**  
 DECK SLAB REPAIR (FULL DEPTH, TYPE 1) = 16.0 SQ YD  
 DECK SLAB REPAIR (FULL DEPTH, TYPE 2) = 13.0 SQ YD  
 APPROACH SLAB REPAIR (PARTIAL DEPTH) = 6.0 SQ YD  
 APPROACH SLAB REPAIR (FULL DEPTH) = 13.0 SQ YD

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

DATE OF SURVEY: 12-01-2020  
 SURVEY BY: DPM & TMW  
 METHOD OF SURVEY: VISUAL

USER NAME = stefenmk	DESIGNED - T. Walk	REVISED -
	DRAWN - T. Walk	REVISED -
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PLOT DATE = 4/8/2022	DATE - Jan, 2021	REVISED -

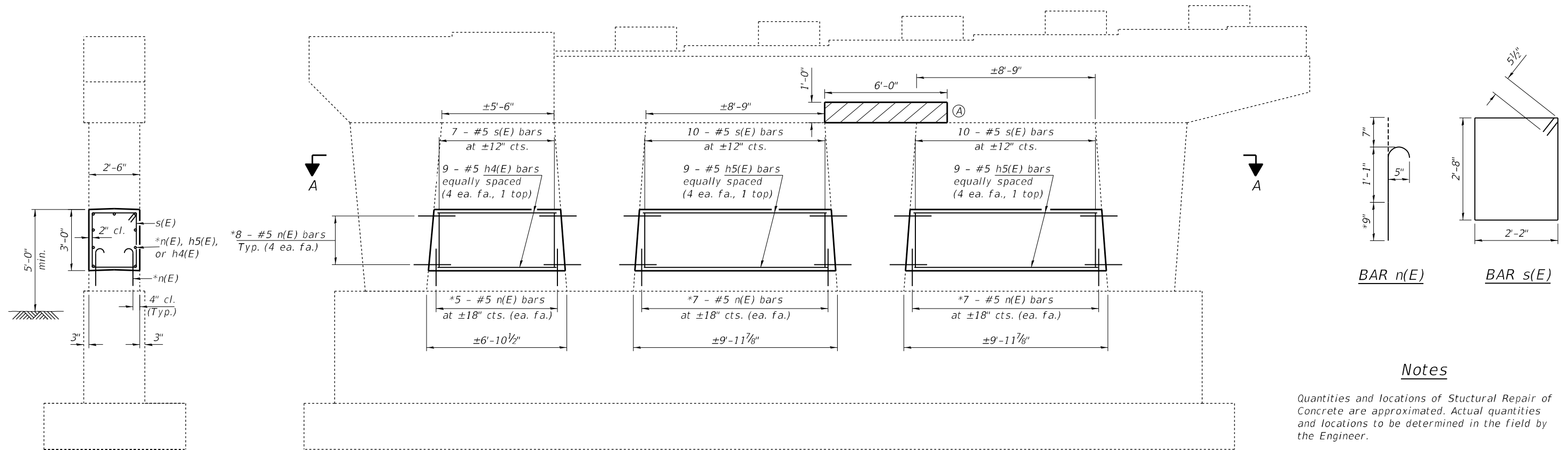
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>BRIDGE DECK PATCHING &amp; APPROACH REPAIR</b>			
<b>SN. 058-0007</b>			
SCALE:	SHEET 9	OF 14 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	46
CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				

\* Epoxy grout n(E) bars in 9" min. holes according to Article 584 of the Standard Specifications

 Structural Repair of Concrete (Depth ≤ 5")



**Notes**

Quantities and locations of Structural Repair of Concrete are approximated. Actual quantities and locations to be determined in the field by the Engineer.

Structural Repair of Concrete is intended to repair only areas of severe deterioration. Some minor deteriorated areas may be left unrepaired.

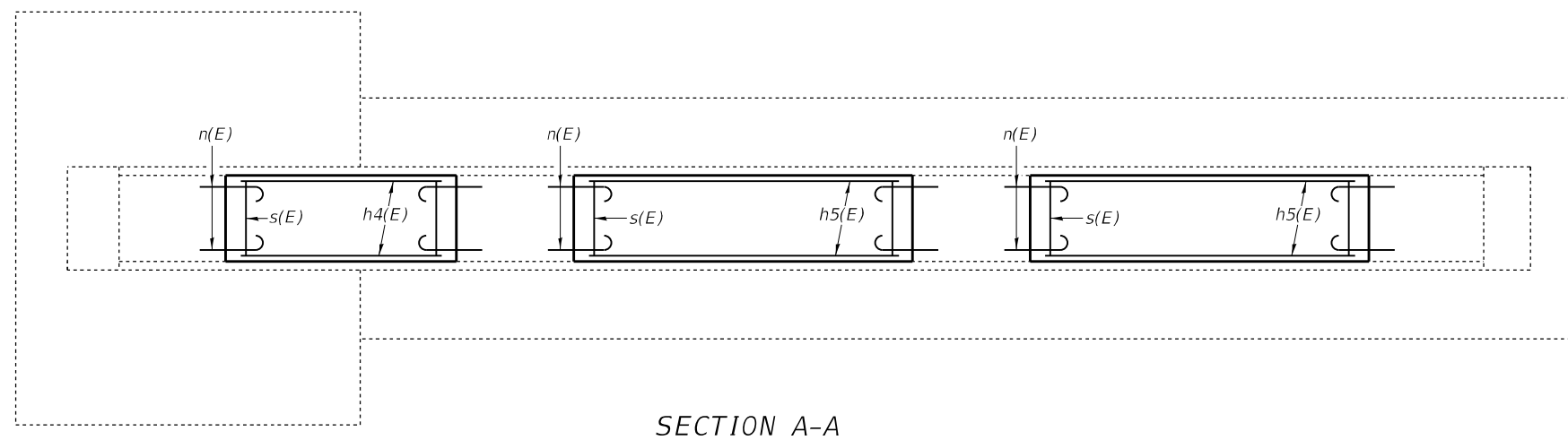
The cost of epoxy grouting threaded rods shall be included with Reinforcement Bars, Epoxy Coated.

**BILL OF MATERIAL FOR PIER 1**

Bar	No.	Size	Length	Shape
h4(E)	9	#5	5'-10"	—
h5(E)	18	#5	9'-0"	—
n(E)	86	#5	2'-5"	⌋
s(E)	27	#5	10'-7"	□
ITEM		UNIT	QUANTITY	
Concrete Structures		Cu. Yd.	7.2	
Reinforcement Bars, Epoxy Coated		Pound	740	
Structural Repair of Concrete ≤ 5 inches		Sq. Ft.	6.0	
Protective Coat		Sq. Yd.	25	

**PIER 1 STRUCTURAL REPAIR OF CONCRETE (DEPTH ≤ 5")**

Location	Area Sq. Ft.
A	6.0
Total	6.0



MODEL: Default  
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 PROJECT: 74780

USER NAME = stefenmk	DESIGNED - T. Walk	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - T. Walk	REVISED -
PLOT DATE = 4/8/2022	CHECKED - D. Macklin	REVISED -
	DATE - Jan, 2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

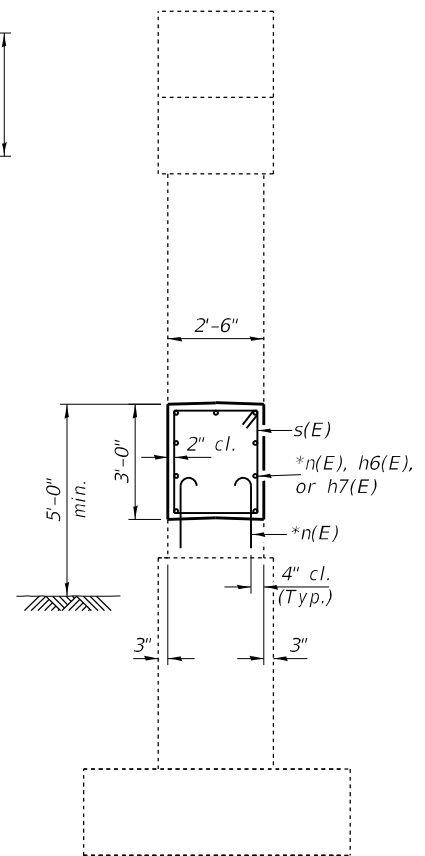
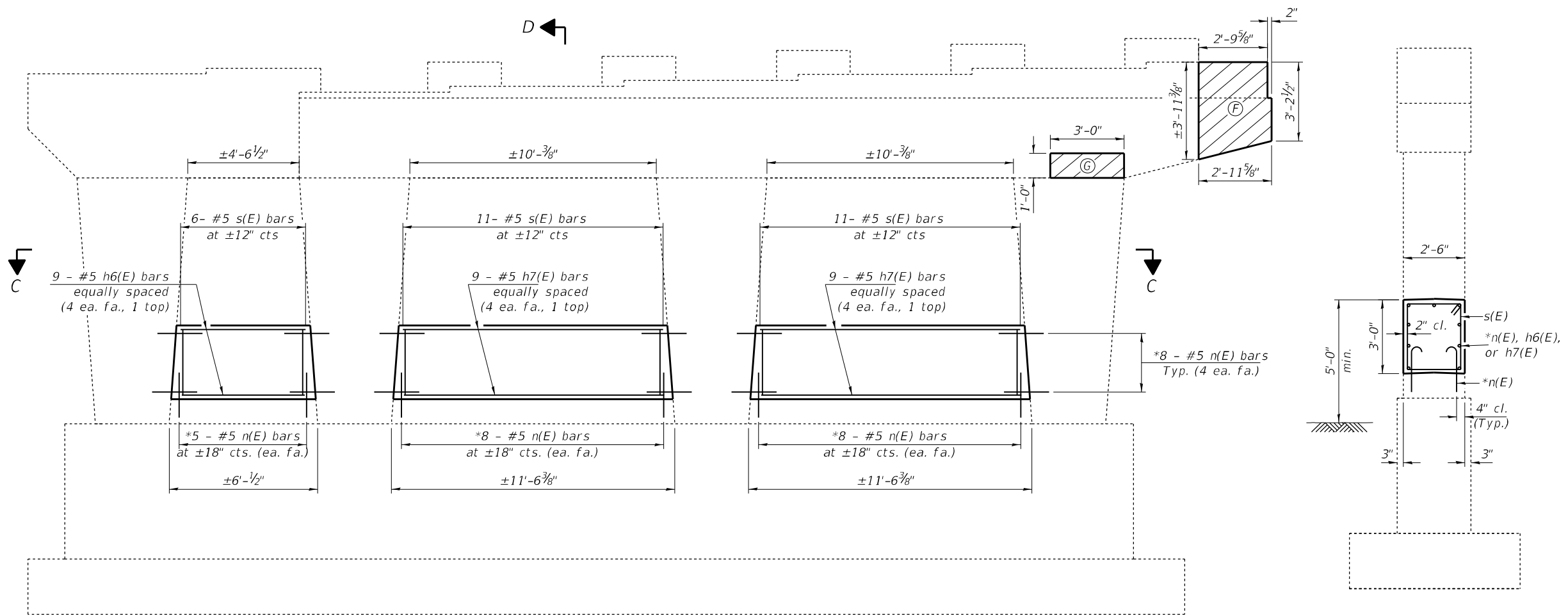
**PIER 1 REPAIRS & CRASHWALL EXTENSION  
S.N. 058-0007**

SCALE: SHEET 10 OF 14 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	47
			CONTRACT NO. 74780	
ILLINOIS FED. AID PROJECT				

\* Epoxy grout n(E) bars in 9" min. holes according to Article 584 of the Standard Specifications

 Structural Repair of Concrete (Depth ≤ 5")



**PIER 2, SOUTH FACE STRUCTURAL REPAIR OF CONCRETE (DEPTH ≤ 5")**

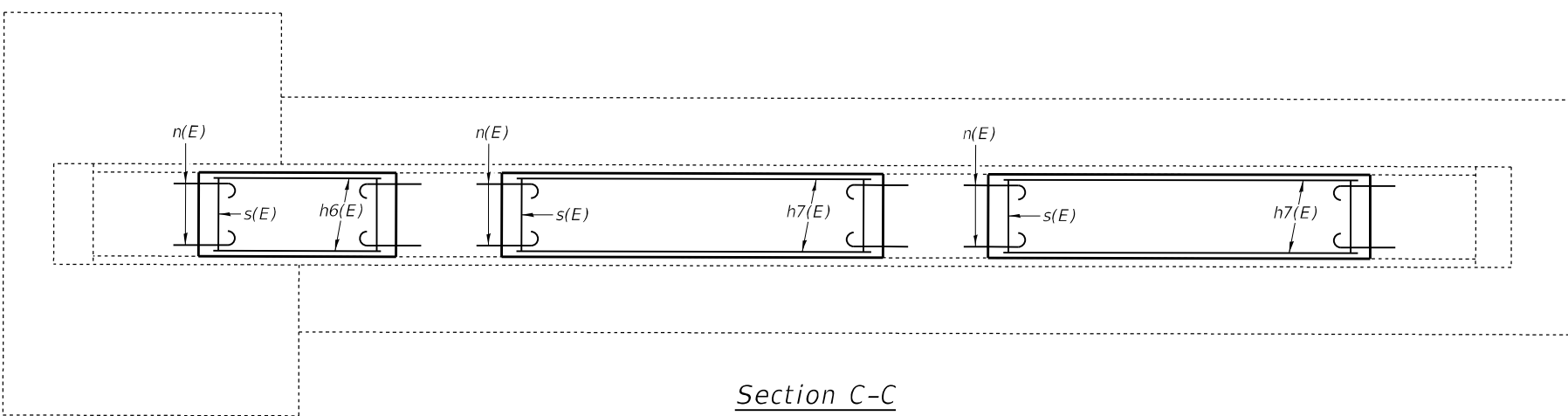
Location	Area SqFt
F	11
G	3
<b>Total</b>	<b>14</b>

**ELEVATION**  
Looking North

**SECTION D-D**

**BILL OF MATERIAL FOR PIER 2**

Bar	No.	Size	Length	Shape
h6(E)	9	#5	5'-1"	—
h7(E)	18	#5	10'-7"	—
n(E)	90	#5	2'-5"	⊥
s(E)	28	#5	10'-7"	□
ITEM		UNIT	QUANTITY	
Concrete Structures		Cu. Yd.	8.0	
Reinforcement Bars, Epoxy Coated		Pound	785	
Structural Repair of Concrete ≤ 5 inches		Sq. Ft.	59	
Protective Coat		Sq. Yd.	26	



**Section C-C**

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PLOT SCALE = 100,0000' / in.	CHECKED - D. Macklin	REVISED -
	DATE - Jan. 2021	REVISED -

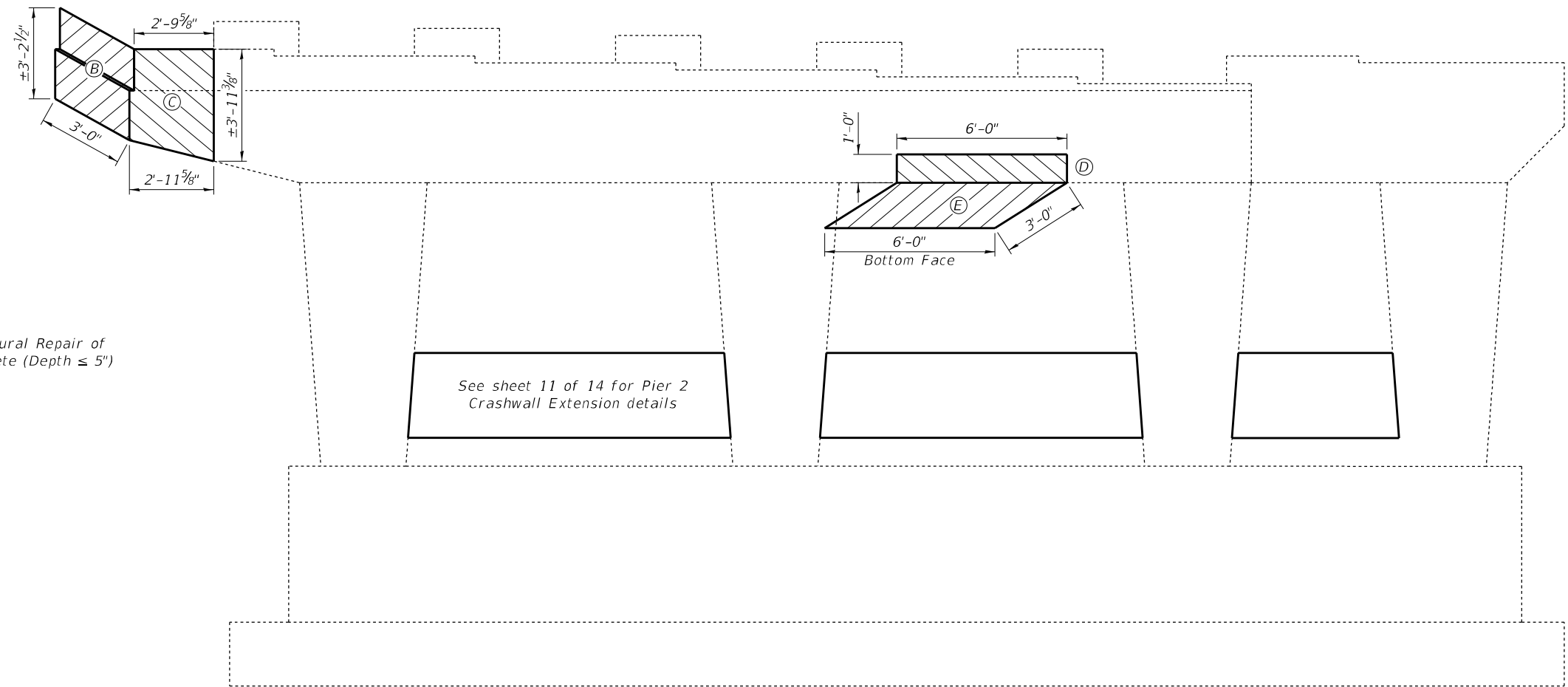
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PIER 2 REPAIRS & CRASHWALL EXTENSION  
S.N. 058-0007**

SCALE: SHEET 11 OF 14 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	48
			CONTRACT NO. 74780	
ILLINOIS FED. AID PROJECT				





 Structural Repair of Concrete (Depth ≤ 5")

See sheet 11 of 14 for Pier 2  
Crashwall Extension details

**ELEVATION**  
Looking South

**Notes**

Quantities and locations of Structural Repair of Concrete are approximated. Actual quantities and locations to be determined in the field by the Engineer.

Structural Repair of Concrete is intended to repair only areas of severe deterioration. Some minor deteriorated areas may be left unrepaired.

The cost of epoxy grouting threaded rods shall be included with Reinforcement Bars, Epoxy Coated.

**PIER 2, NORTH FACE STRUCTURAL REPAIR OF CONCRETE (DEPTH ≤ 5")**

Location	Area SqFt
B	10
C	11
D	6
E	18
Total	45

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 PLOT DATE = 4/8/2022

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	DRAWN - T. Walk	REVISED -
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PLOT DATE = 4/8/2022	DATE - Jan. 2021	REVISED -

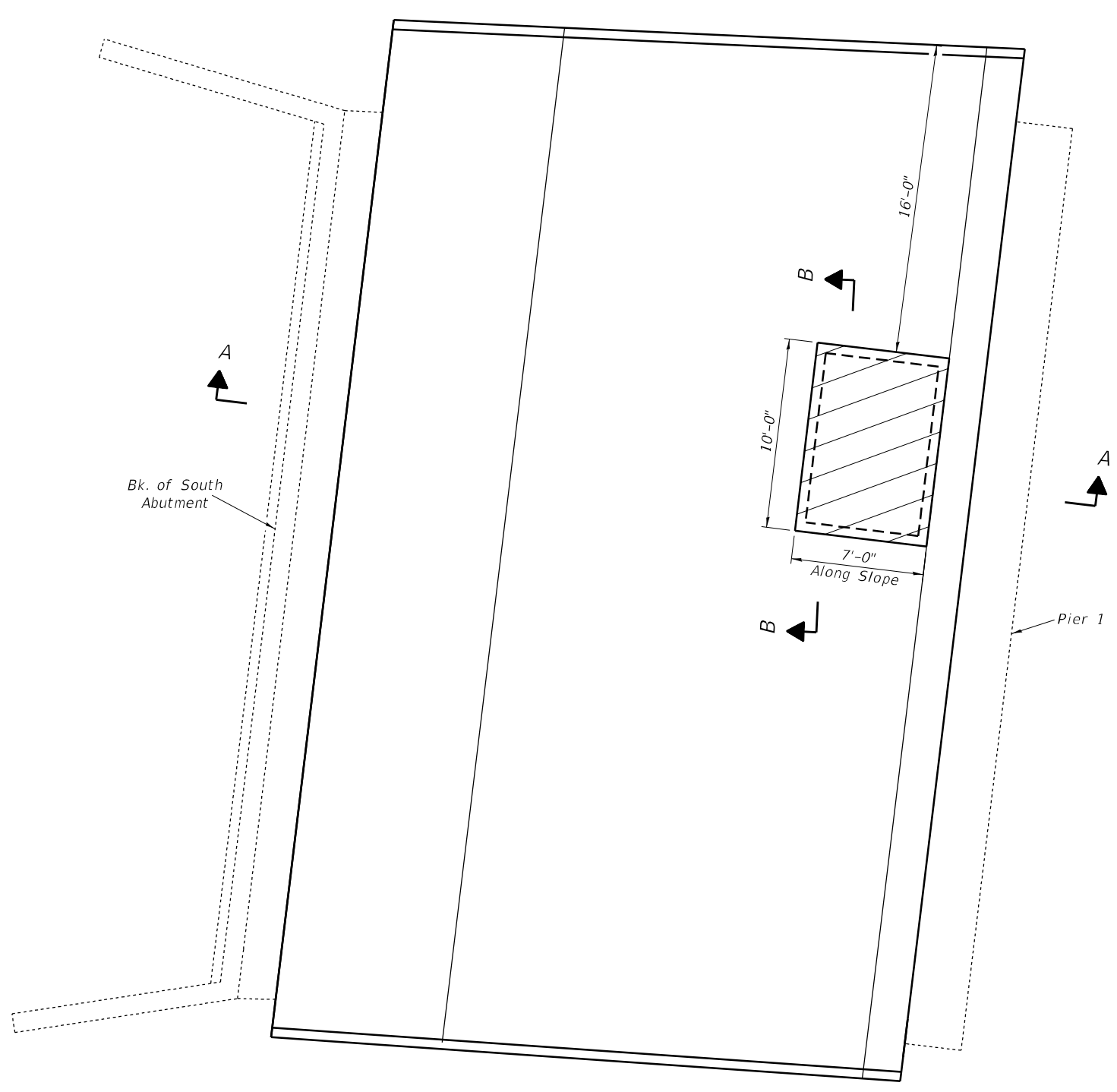
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PIER 2 REPAIRS & CRASHWALL EXTENSION  
S.N. 058-0007**

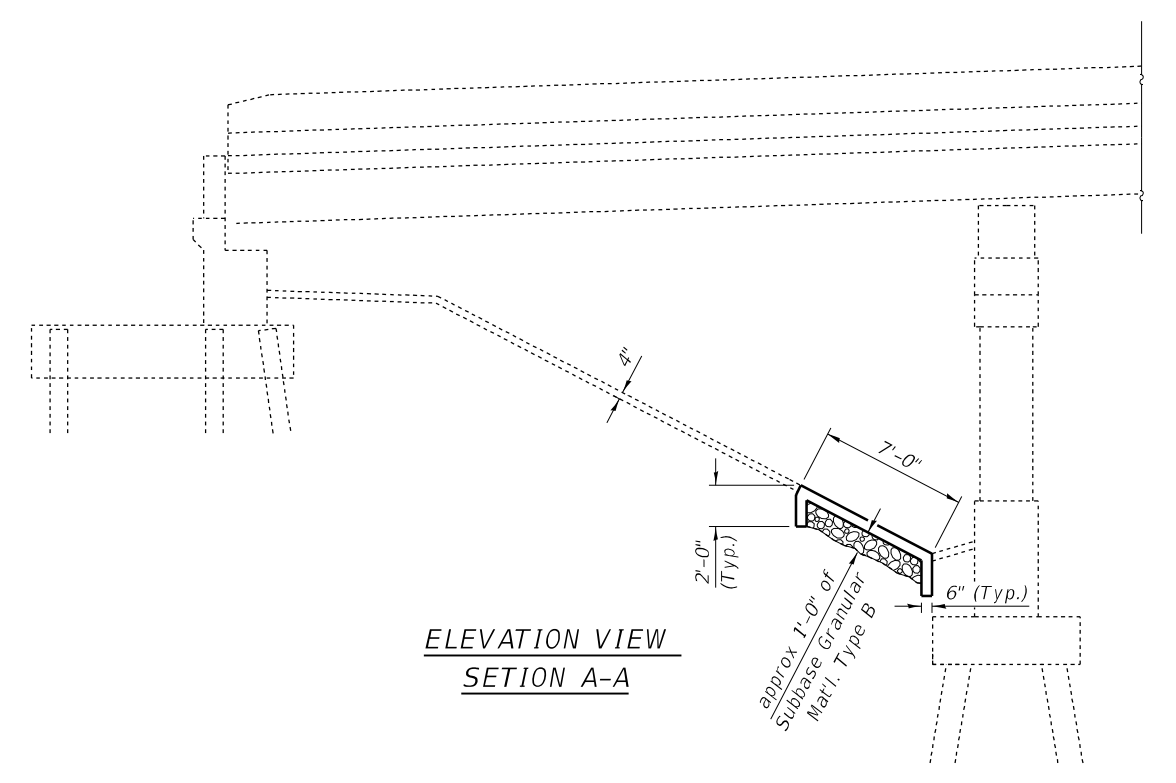
SCALE: SHEET 12 OF 14 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	49
CONTRACT NO. 74780			ILLINOIS FED. AID PROJECT	

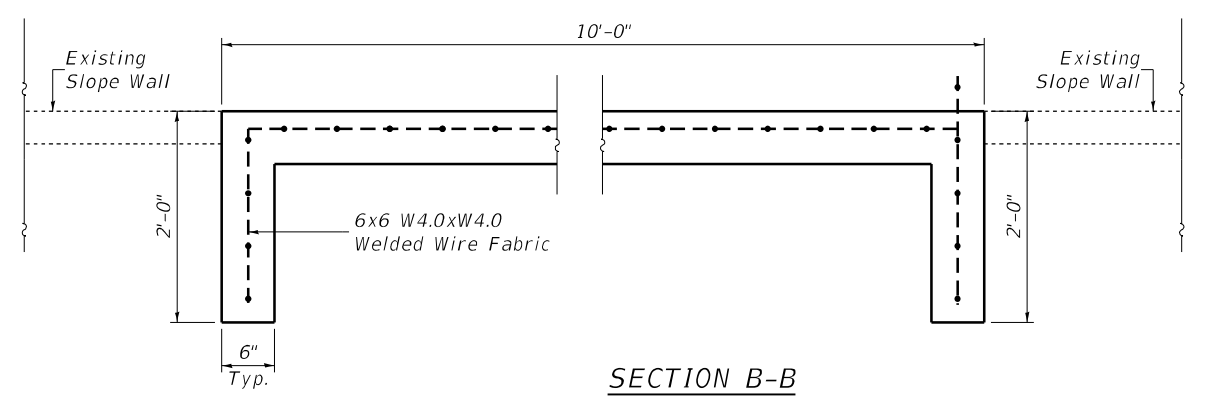
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**PLAN VIEW SLOPEWALL**



**ELEVATION VIEW SECTION A-A**



**SECTION B-B**

Prior to partial removal of any concrete structure a 3/4" deep saw cut shall be made along all boundaries or the removal area. Saw cuts will be included with the cost of slope wall removal.

In areas of voids under the existing slope wall the embankment shall be reconstructed with Subbase Granular Material, Type B. The Subbase Granular Material shall be gradation CA6 unless otherwise specified by the Engineer.

**BILL OF MATERIALS**

ITEM	UNIT	QUANTITY
Slope Wall Removal	SQ YD	8.0
Slope Wall 6 Inch	SQ YD	8.0
Protective Coat	SQ YD	8.0
Subbase Granular Material, Type B	TON	16.0

USER NAME = steffenmk	DESIGNED - T. Walk	REVISED -
	DRAWN - T. Walk	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - D. Macklin	REVISED -
PLOT DATE = 4/8/2022	DATE - Jan, 2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

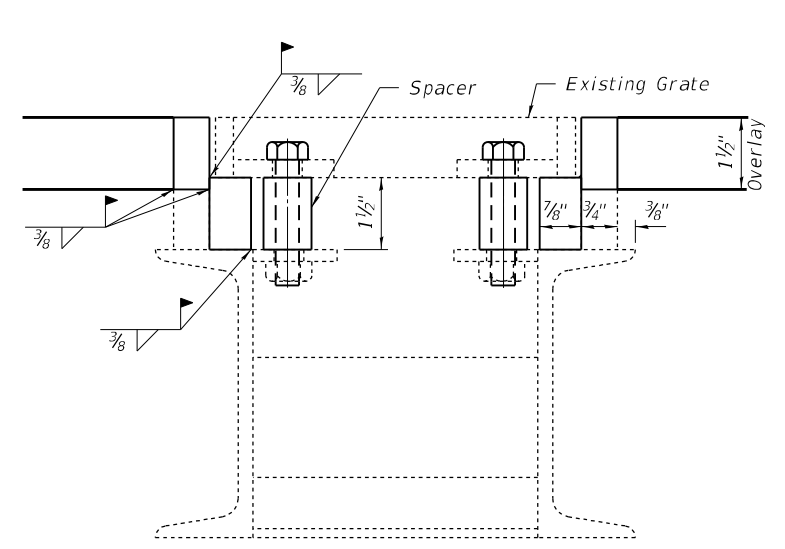
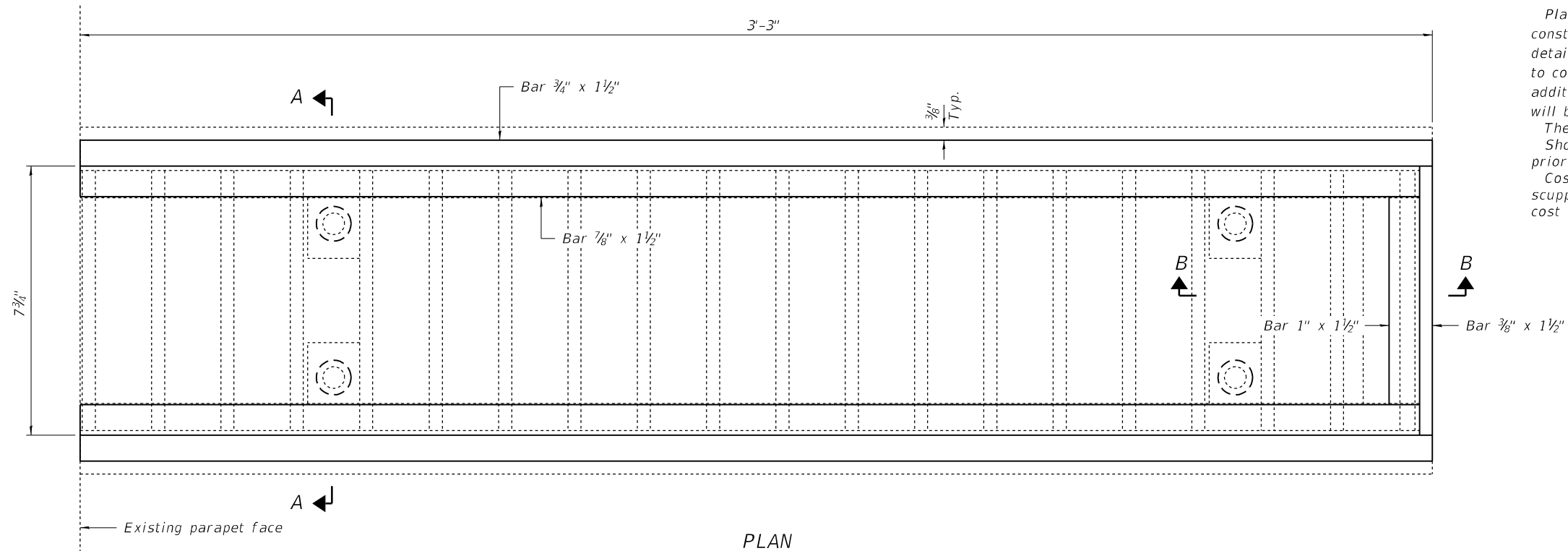
**SLOPEWALL REPAIRS, SOUTH SIDE  
S.N. 058-0007**

SCALE: SHEET 13 OF 14 SHEETS STA. TO STA.

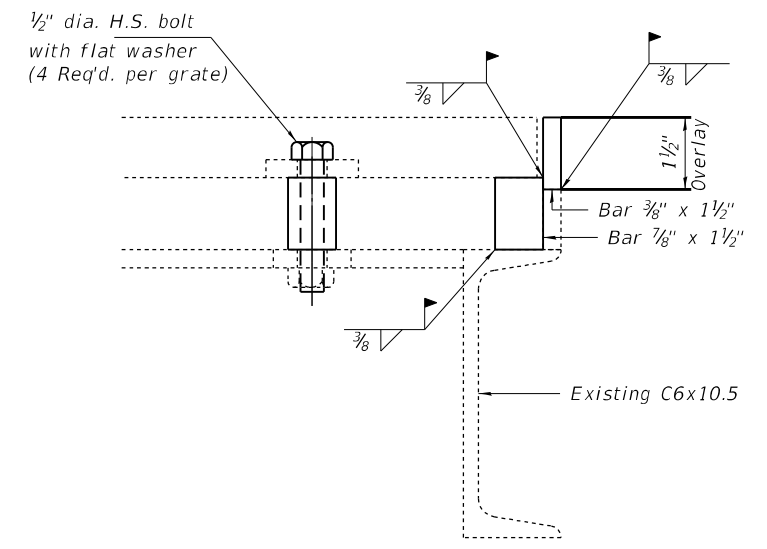
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	50
CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				

**GENERAL NOTES**

All structural steel shall conform to AASHTO Classification M-270 Gr. 36.  
 The adjusting scupper ring shall be galvanized.  
 Bolts shall be 1/2" dia., AASHTO M164 Type I, mechanically galvanized.  
 Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.  
 The contractor shall ensure that no damage is done to existing grates to be reused.  
 Shop plans for proposed adjusting scupper ring shall be submitted for approval prior to fabrication.  
 Cost of all labor and materials necessary to remove existing grates, clean existing scuppers, install adjusting scupper rings and reinstalling grates is included in the cost per unit each for Drainage Scupper To Be Adjusted.



**SECTION A-A**



**SECTION B-B**

**BILL OF MATERIAL**

Item	Unit	Total
Drainage Scupper To Be Adjusted	Each	1

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 FILE: \\naulpc-pw-bentley.com\P\INDOT\Documents\DOT Office\Dir\drct\_7\Project\74780\CADD\Drawn\CAD\Sheets\058-0007 & 058-0008 Bridge Repair.dgn  
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USER NAME = steffnmk	DESIGNED - T. Walk	REVISED -
	DRAWN - T. Walk	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - D. MacKlin	REVISED -
PLOT DATE = 4/8/2022	DATE - Jan, 2021	REVISED -

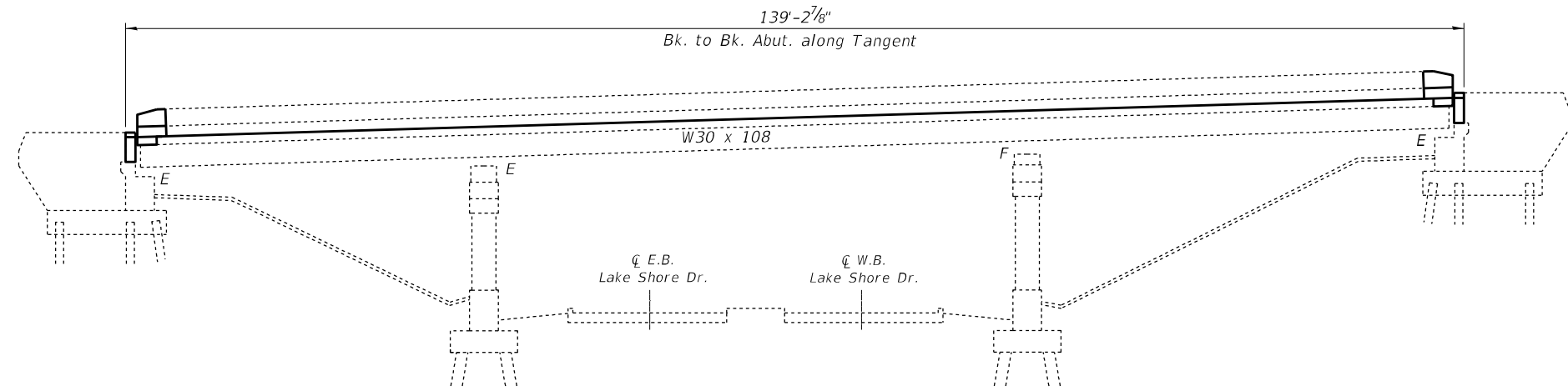
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ADJUSTING EXISTING SCUPPER  
 S.N. 058-0007**

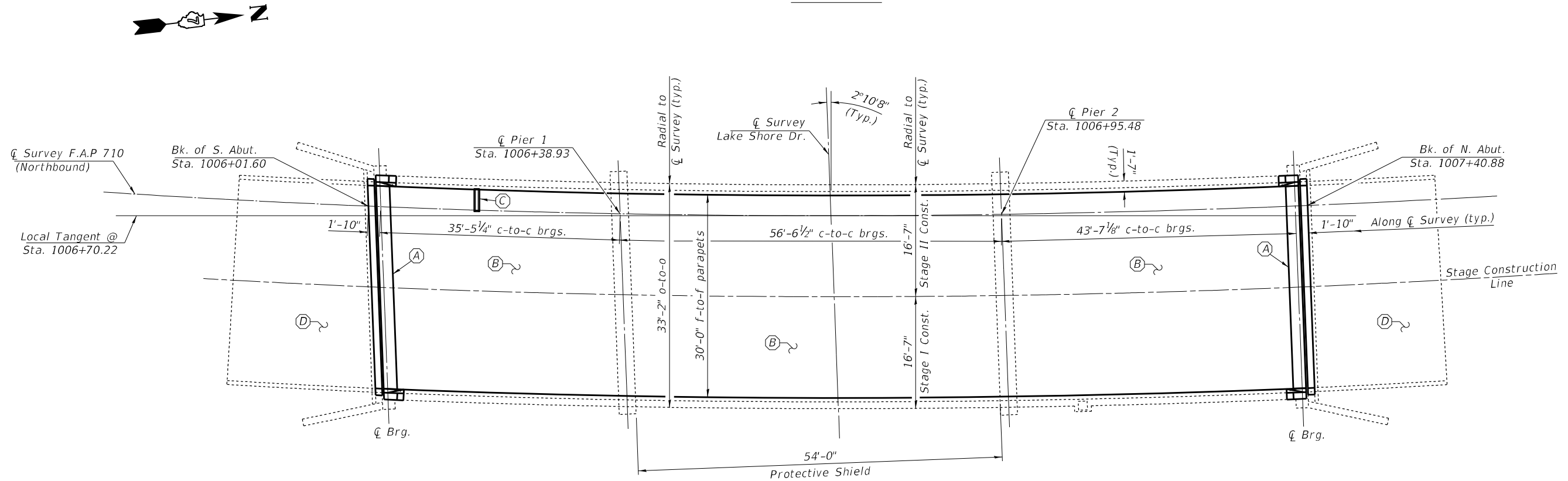
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	51
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74780	

SN 058-0008 carries Business Route 51 N.B. (FAP 710) over ILL-105 (FAP 712).  
 The existing three span, steel beam superstructure was constructed in 1991 and substructure was constructed in 1962.  
 The proposed project consists of replacement of the expansion joints with new strip seals, structural repair of concrete piers, crashwall extensions, full depth deck patching, partial depth approach patching, slopewall repair, scarification, & concrete overlay.



ELEVATION



PLAN

- (A) - Remove Existing Joints and Replace Existing Strip Seal Expansion Joint
- (B) - Bridge Deck Scarification, 3/4", Deck Patching, & Bridge Deck Fly Ash or GGBF Slag Concrete Overlay, 2-1/4"
- (C) - Scupper Modification
- (D) - Approach Slab Repair



EXPIRES 11-30-2022

*Jayme E. Schiff*

USER NAME - stephenmk	DESIGNED - T. Walk	REVISED -
	DRAWN - T. Walk	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - D. Macklin	REVISED -
PLOT DATE = 4/8/2022	DATE - Jan, 2021	REVISED -

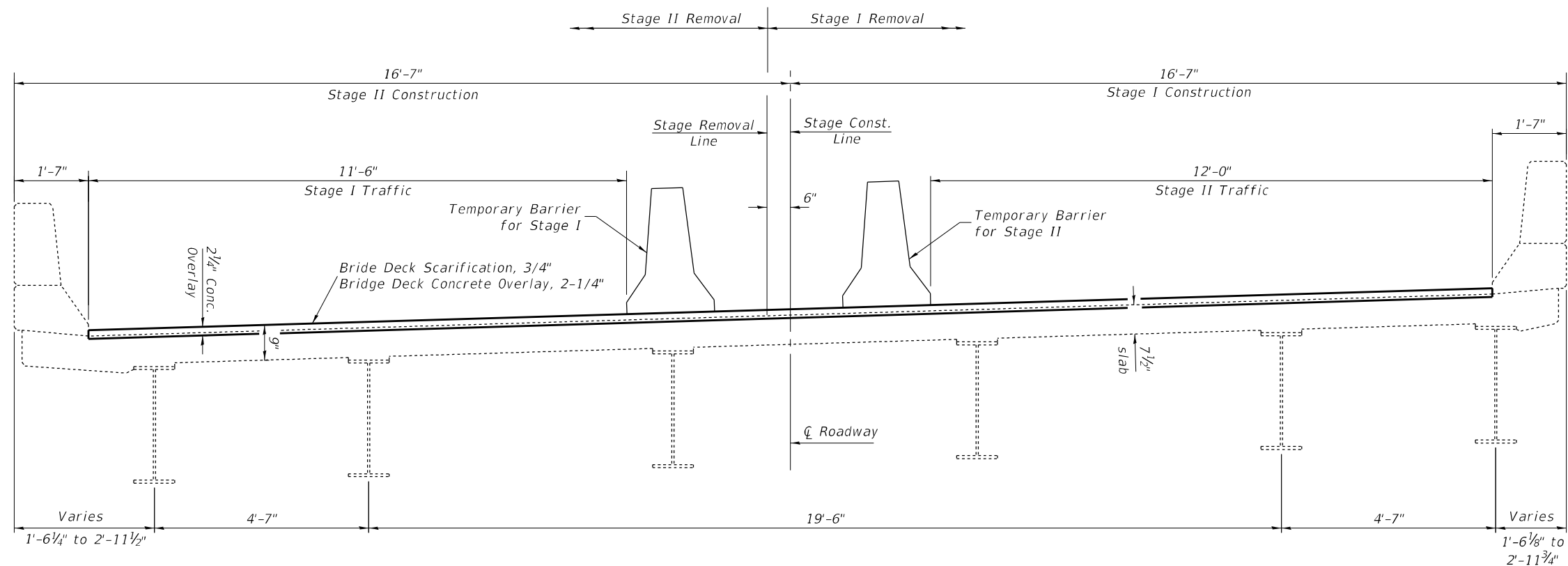
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION  
 S.N. 058-0008

SCALE: SHEET 1 OF 15 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	52
CONTRACT NO. 74780				
ILLINOIS		FED. AID PROJECT		

MODEL: Default  
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 PROJECT: 74780\Documents\DOT Office\District: 7\Projects\74780\CADD\Drawings\058-0008 & 058-0008 Bridge Repair.dgn



**STAGE CONSTRUCTION DETAIL**  
NBL Looking North

**GENERAL NOTES**

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Reinforcement Bars designated (E) shall be epoxy coated.

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 operations shall be replaced with an approved bar splicer or anchorage system. Cost included with CONCRETE REMOVAL.

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

Removal and reinstallation of the guardrail will be necessary for construction of the expansion joints. The existing guardrail sections shall be reused. All embedded anchors that are within the concrete removal area shall be cleaned and incorporated in the new construction or new approved alternatives shall be supplied and installed. This work and all materials shall be included in the contract unit price for CONCRETE SUPERSTRUCTURE.

Protective Coat to be applied to areas of new concrete only, including bridge deck concrete overlay, slopewall repair, & crashwall extensions.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

Areas of deck repairs shown are estimated. The Engineer shall show actual locations of deck repairs on as-built plans.

Full depth deck slab repairs performed in the exterior bays of the bridge deck (between the parapet walls and the first interior beams) shall be limited to individual lengths no greater than 10'. In these portions of the deck, repair areas longer than 10' shall be divided into segments not greater than 10' in length, and the segments shall be poured in alternating sequence. Subsequent segments repaired in sequence shall not be removed until 72 hours shall have elapsed from the end of the previous, adjacent pour, and the adjacent pour shall have attained a minimum modulus of rupture of 650psi.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	11
Concrete Superstructure	Cu. Yd.	12
Protective Coat	Sq. Yd.	525
Reinforcement Bars, Epoxy Coated	Pound	2210
Bridge Deck Grooving	Sq. Yd.	425
Bridge Deck Scarification, 3/4"	Sq. Yd.	445
Bridge Deck Fly Ash or GGBF Slag Concrete Overlay, 2-1/4"	Sq. Yd.	445
Preformed Joint Strip Seal	Foot	65
Approach Slab Repair (Partial Depth)	Sq. Yd.	2.0
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	7.0
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	7.0
Structural Repair of Concrete (Depth ≤ 5")	Sq. Ft.	20
Protective Shield	Sq. Yd.	200
Concrete Structures	Cu. Yd.	7.0
Slope Wall Removal	Sq. Yd.	32
Slope Wall 6 Inch	Sq. Yd.	32
Subbase Granular Material, Type B	TON	22
Bar Splicers	EACH	28
Drainage Scupper To Be Adjusted	EACH	1

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	DRAWN - T. Walk	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - D. Macklin	REVISED -
PLOT DATE = 4/8/2022	DATE - Jan, 2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

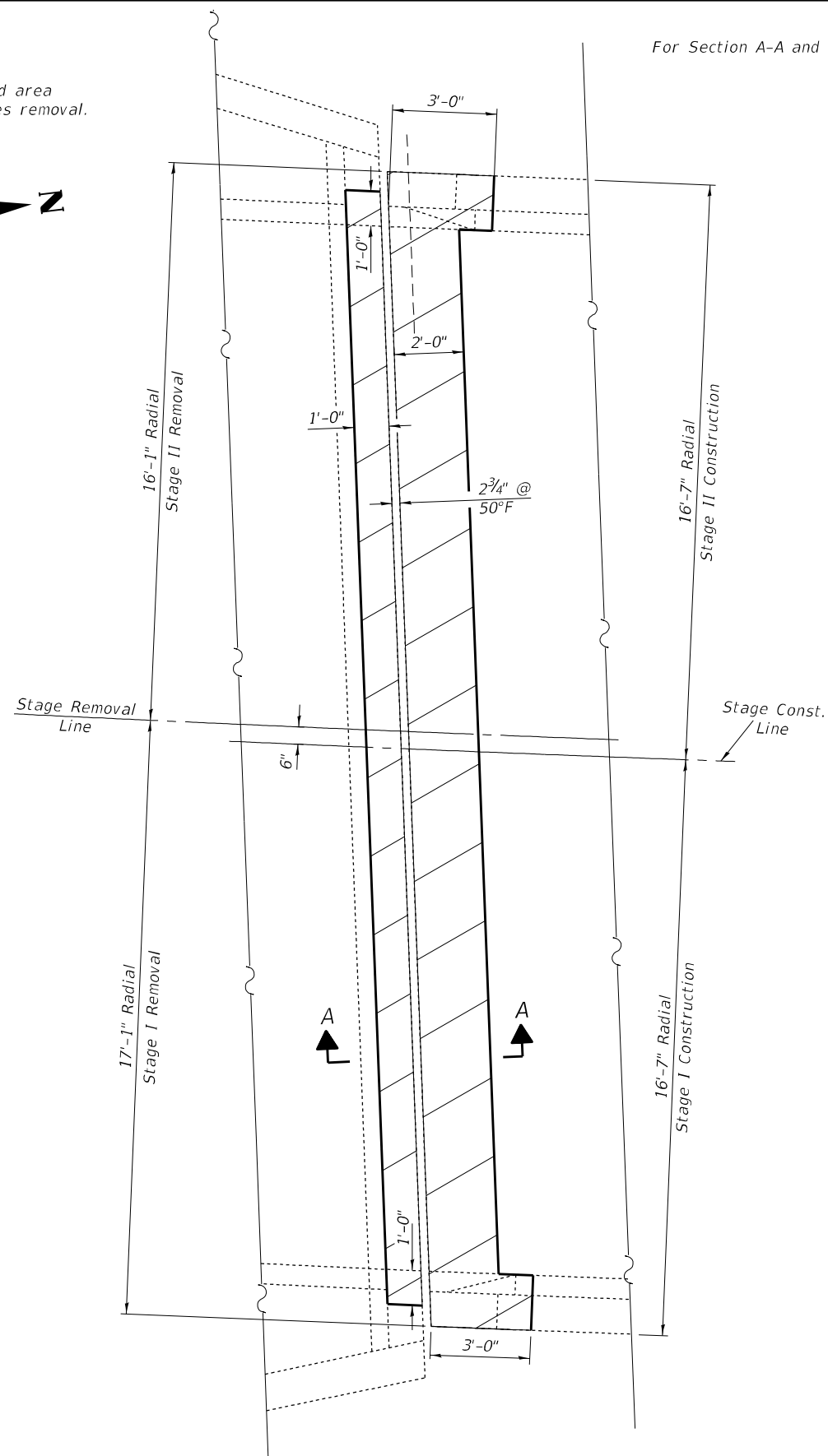
**GENERAL NOTES & BILL OF MATERIALS  
S.N. 058-0008**

SCALE: SHEET 2 OF 15 SHEETS STA. TO STA.

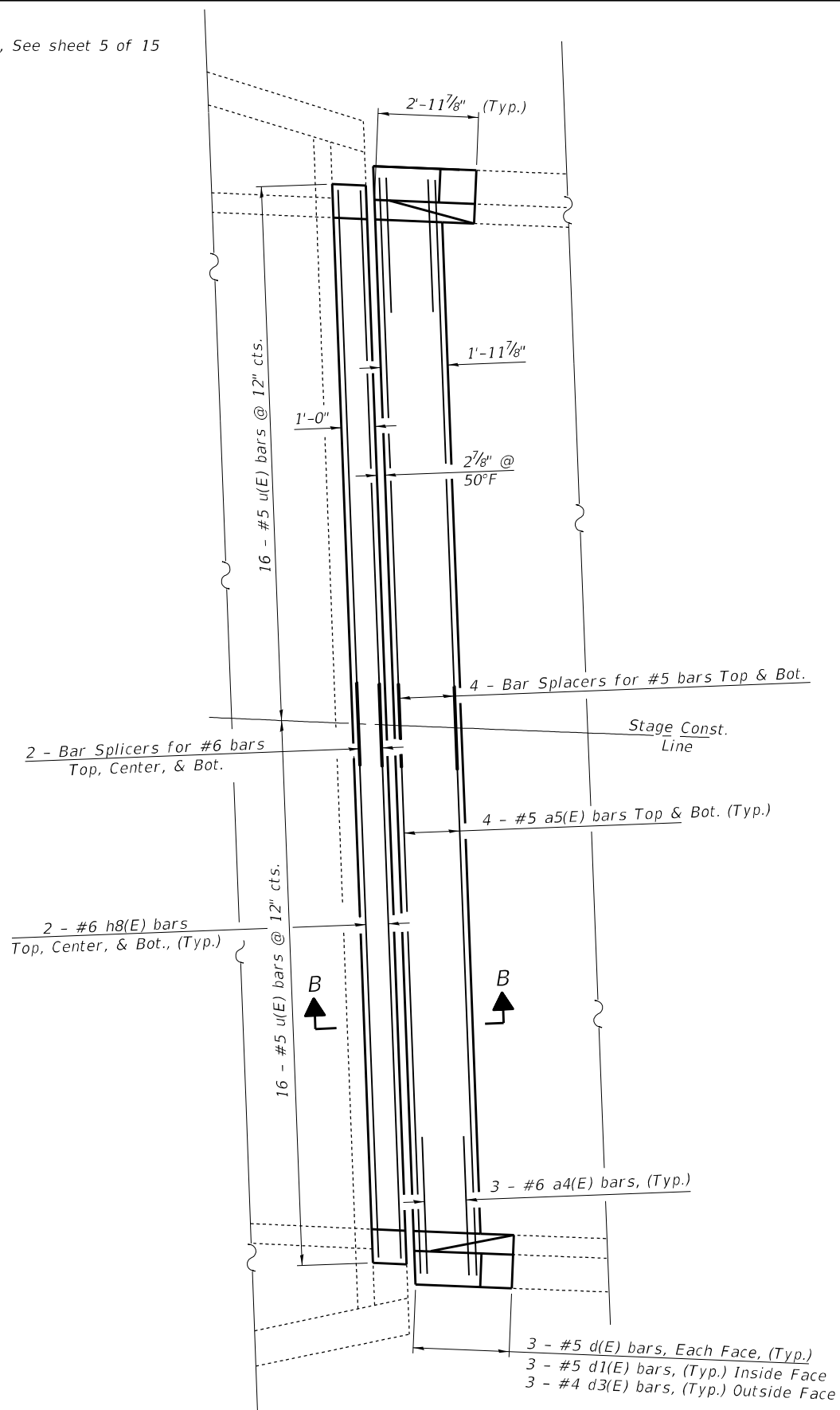
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	53
CONTRACT NO. 74780			ILLINOIS FED. AID PROJECT	

For Section A-A and B-B, See sheet 5 of 15

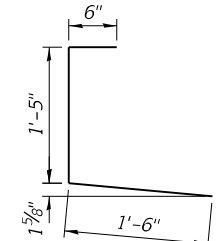
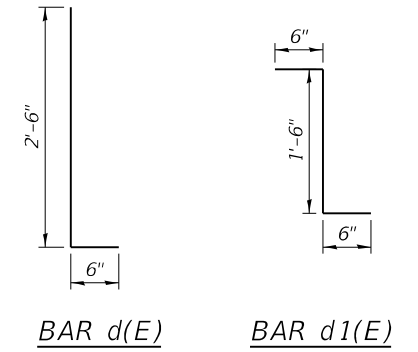
Note: Hatched area indicates removal.



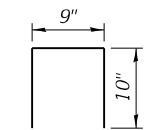
**REMOVAL PLAN**  
South Abutment



**REINFORCEMENT PLAN**  
South Abutment



**BAR d3(E)**



**BAR u(E)**

**BILL OF MATERIAL - SOUTH ABUT.**

Bar	No.	Size	Length	Shape
a4(E)	6	#6	4'-0"	—
a5(E)	16	#5	15'-10"	—
d(E)	12	#5	3'-0"	┌
d1(E)	6	#5	2'-6"	┌
d3(E)	6	#4	3'-5"	┌
h8(E)	12	#6	15'-8"	—
u(E)	32	#5	2'-5"	U
ITEM		UNIT	QUANTITY	
Concrete Removal		Cu. Yd.	5.5	
Concrete Superstructure		Cu. Yd.	6.0	
Reinforcement Bars, Epoxy Coated		Pound	735	
Bar Splicers		Each	14	

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PLOT DATE = 4/8/2022	CHECKED - D. Macklin	REVISED -
	DATE - Jan, 2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EXPANSION JOINT REPLACEMENT DETAIL  
SOUTH ABUTMENT S.N. 058-0008**

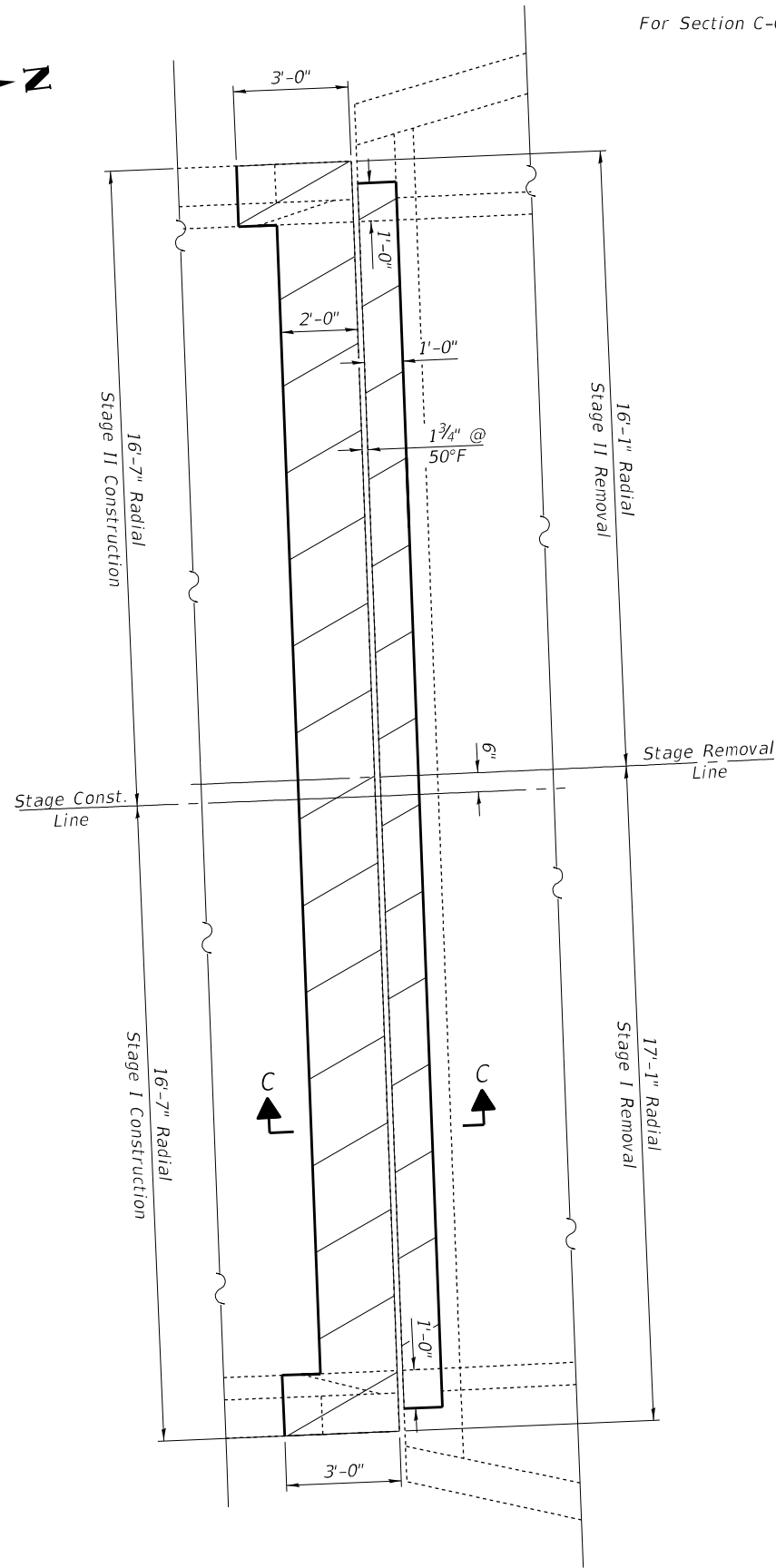
SCALE: SHEET 3 OF 15 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILLINOIS FED. AID PROJECT			CONTRACT NO. 74780	

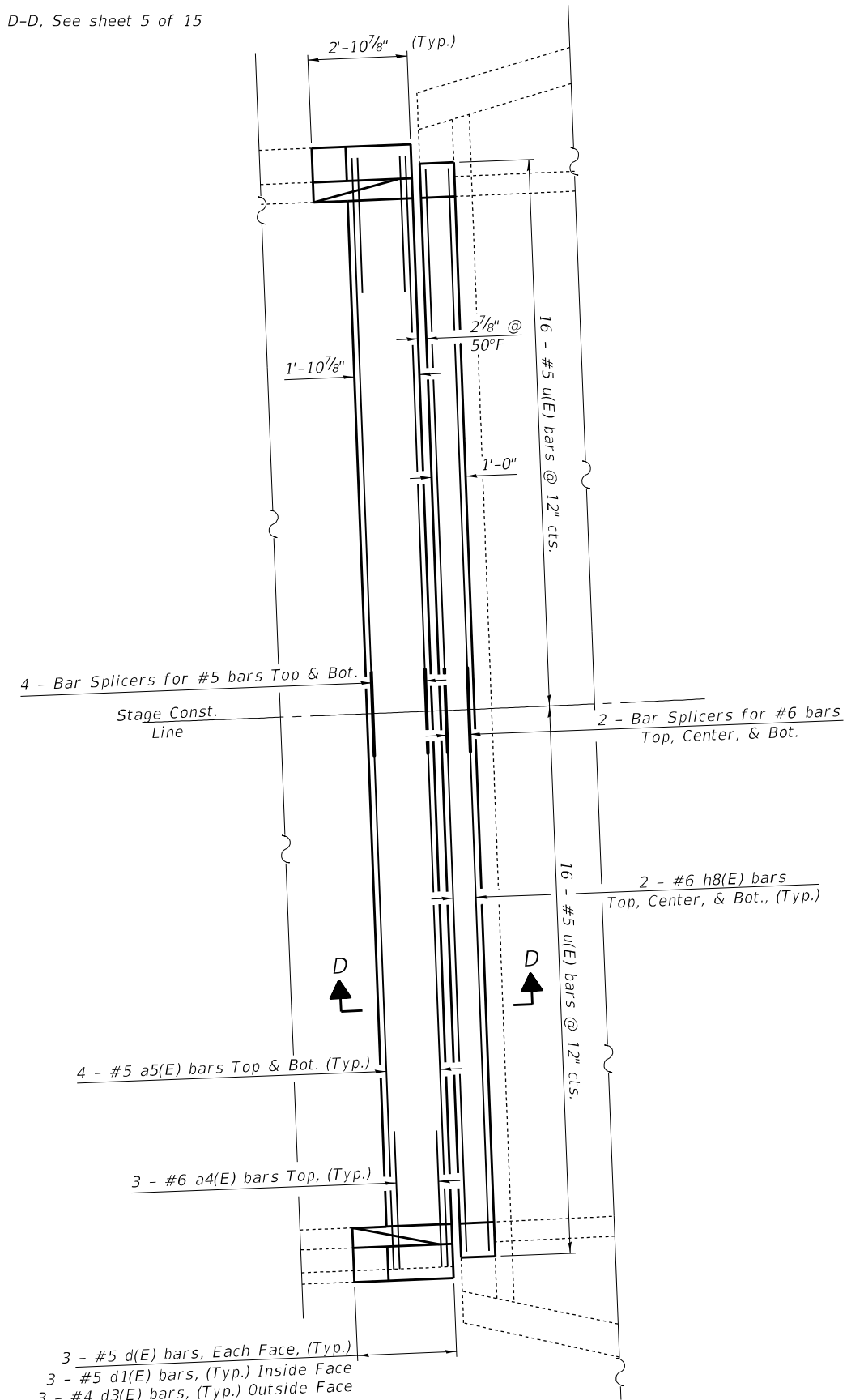
Note: Hatched area indicates removal.



For Section C-C and D-D, See sheet 5 of 15



**REMOVAL PLAN**  
North Abutment



**REINFORCEMENT PLAN**  
North Abutment

**BILL OF MATERIAL - NORTH ABUT.**

Bar	No.	Size	Length	Shape
a4(E)	6	#6	4'-0"	—
a5(E)	16	#5	15'-10"	—
d(E)	12	#5	3'-0"	┌
d1(E)	6	#5	2'-6"	┌
d3(E)	6	#4	3'-5"	┌
h8(E)	12	#6	15'-8"	—
u(E)	32	#5	2'-5"	□
ITEM		UNIT	QUANTITY	
Concrete Removal		Cu. Yd.	5.5	
Concrete Superstructure		Cu. Yd.	6.0	
Reinforcement Bars, Epoxy Coated		Pound	735	
Bar Splicers		Each	14	

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PLOT DATE = 4/8/2022	CHECKED - D. Macklin	REVISED -
	DATE - Jan, 2021	REVISED -

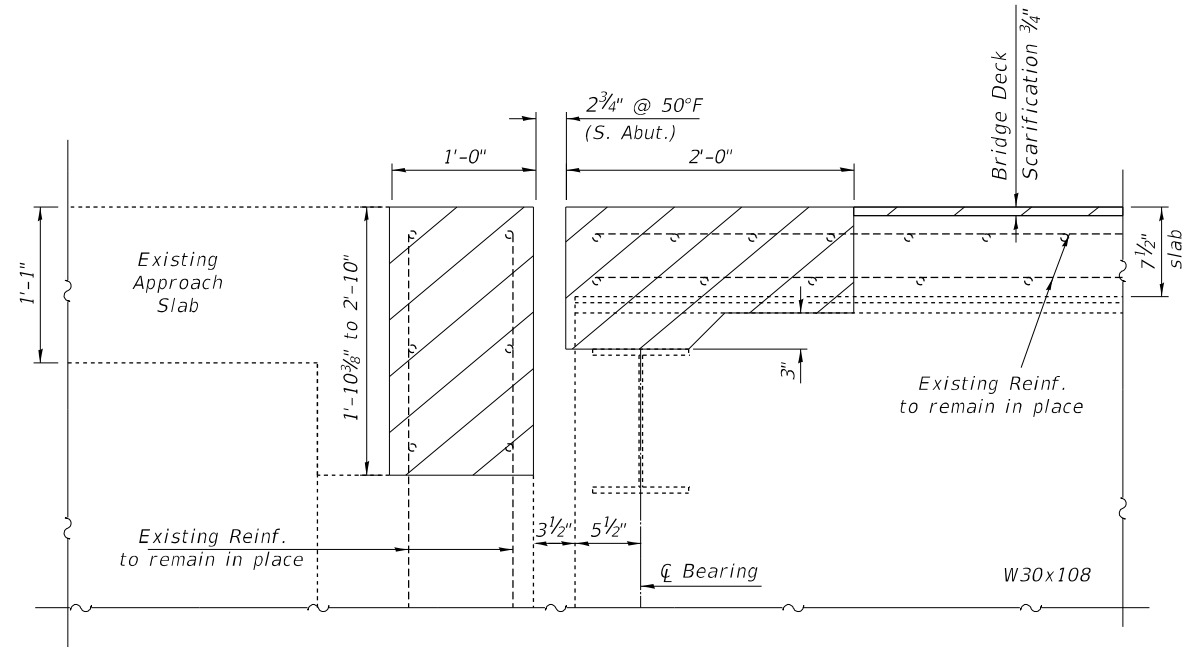
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EXPANSION JOINT REPLACEMENT DETAIL**  
**NORTH ABUTMENT S.N. 058-0008**

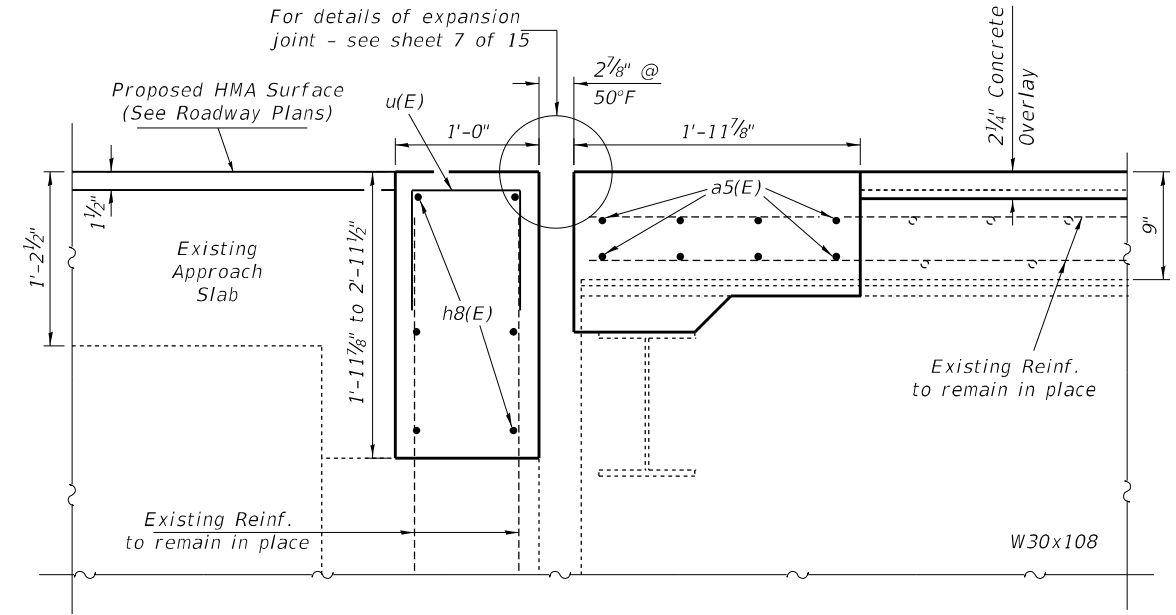
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				

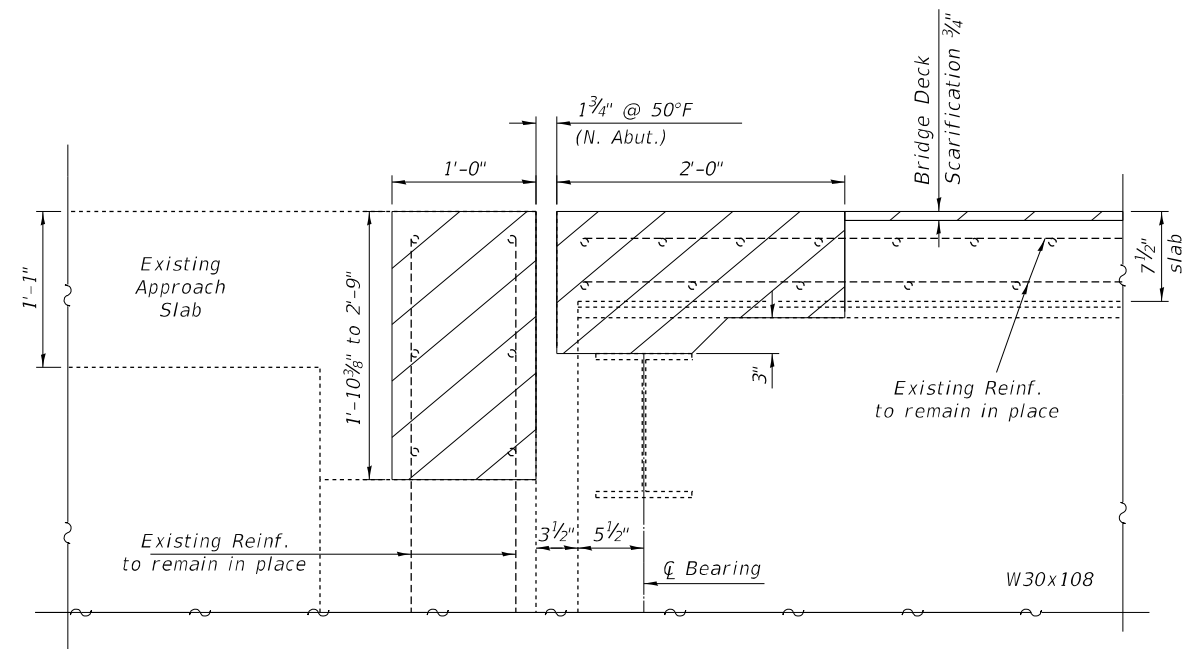
Note: Hatched areas indicates Concrete removal



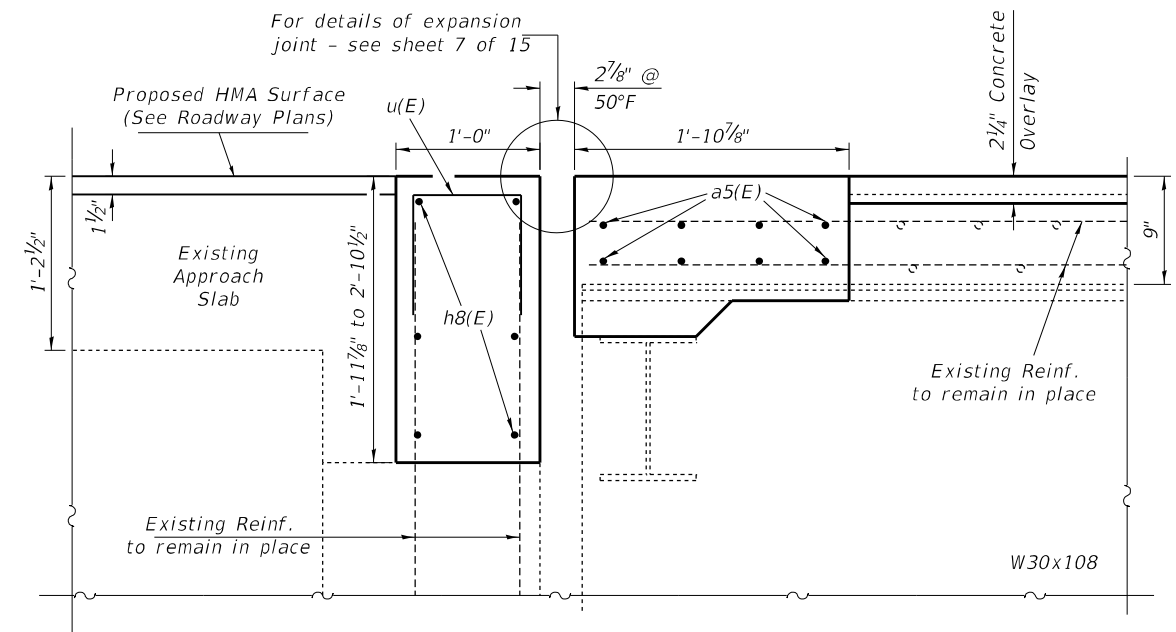
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

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	DRAWN - T. Walk	REVISED -
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PLOT DATE = 4/8/2022	DATE - Jan, 2021	REVISED -

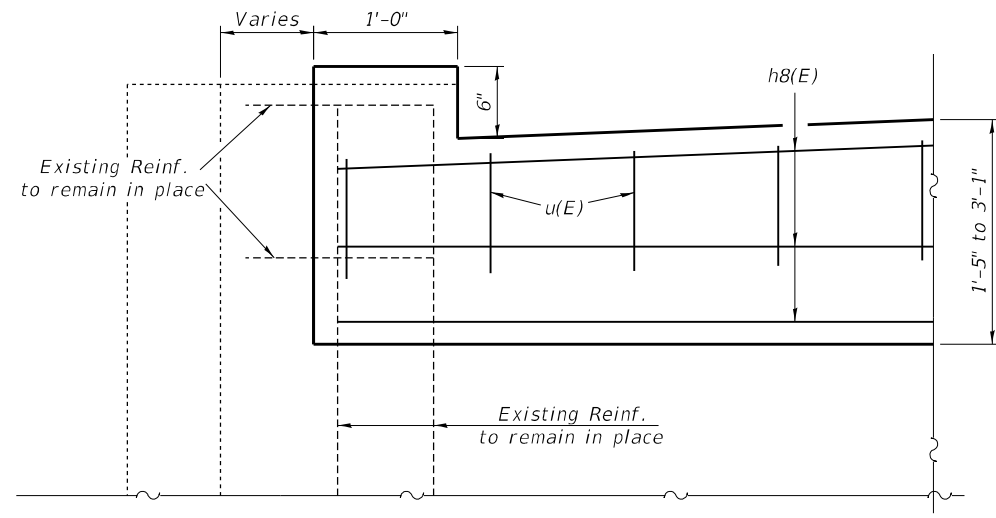
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EXPANSION JOINT REPLACEMENT DETAILS  
S.N. 058-0008**

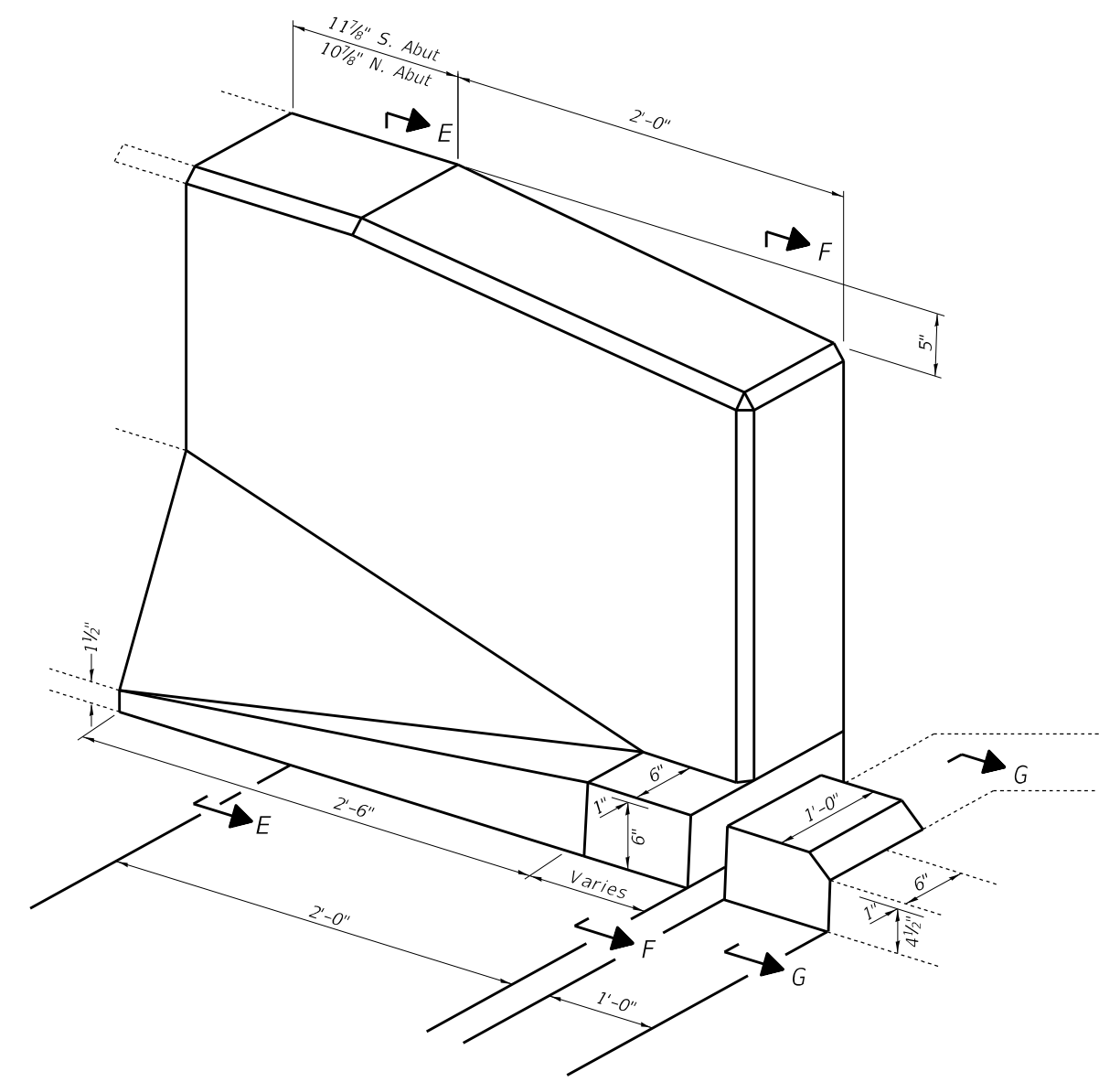
SCALE: SHEET 5 OF 15 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	56
CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				

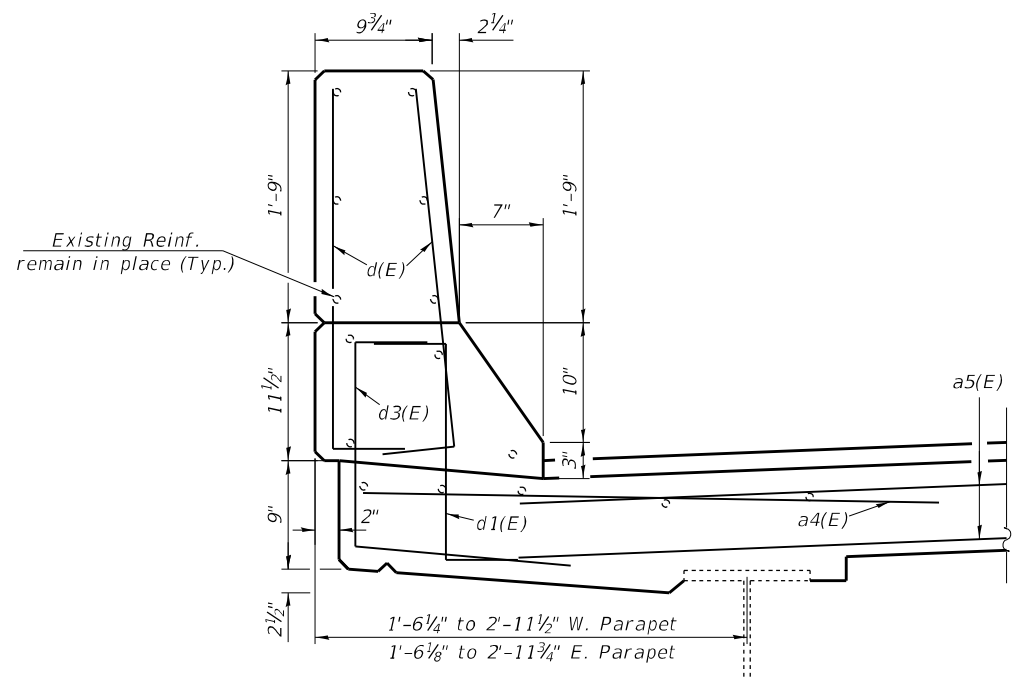




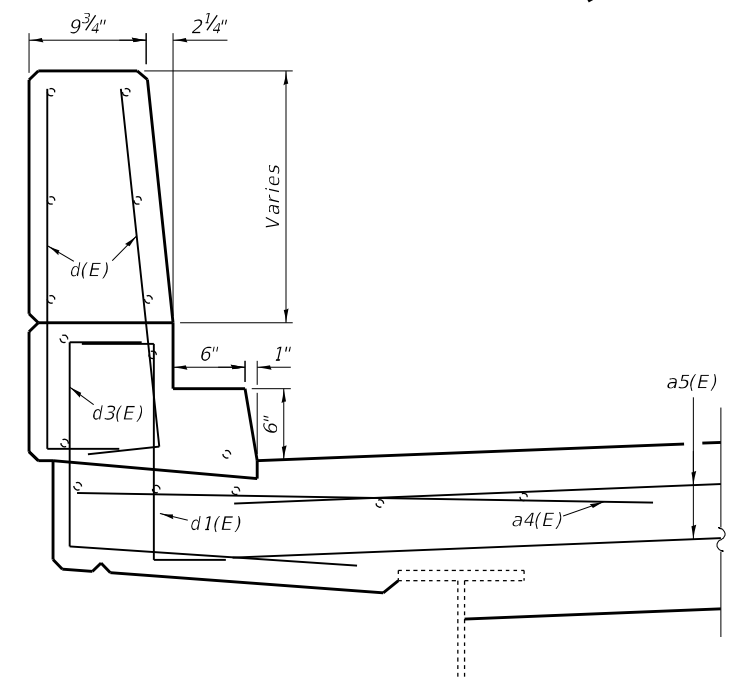
**SECTION G-G**



**ISO-VIEW OF PARAPET**



**SECTION E-E**



**SECTION F-F**

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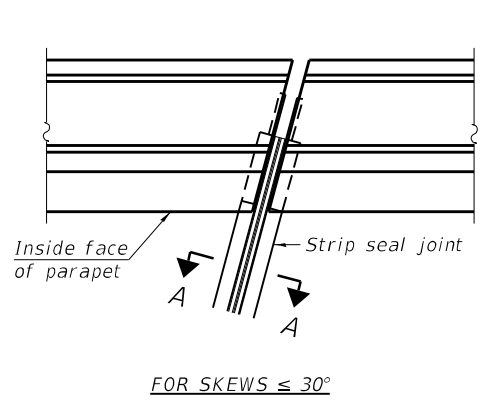
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DRAWN - T. Walk	REVISIONS	
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PLOT DATE = 4/8/2022	DATE - Jan, 2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

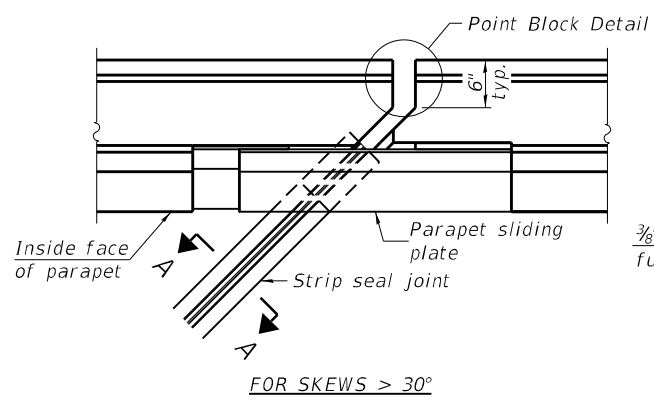
**EXPANSION JOINT REPLACEMENT DETAILS  
S.N. 058-0008**

SCALE: SHEET 6 OF 15 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	57
CONTRACT NO. 74780			ILLINOIS FED. AID PROJECT	

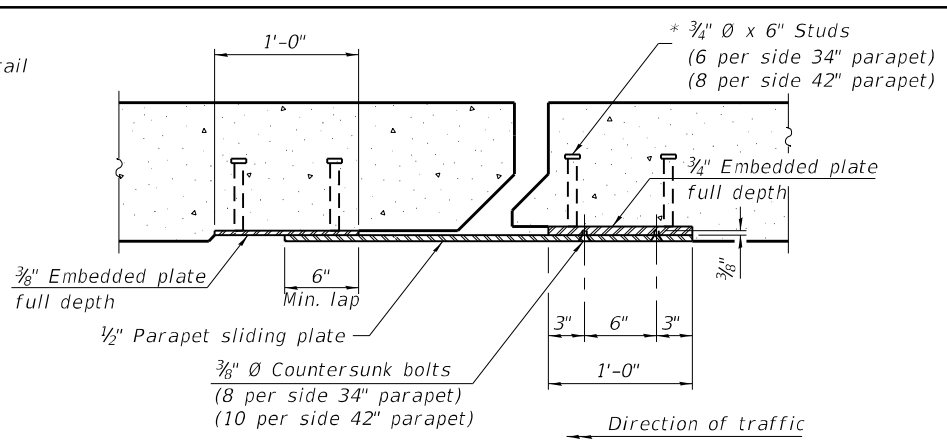


FOR SKEWS  $\leq 30^\circ$

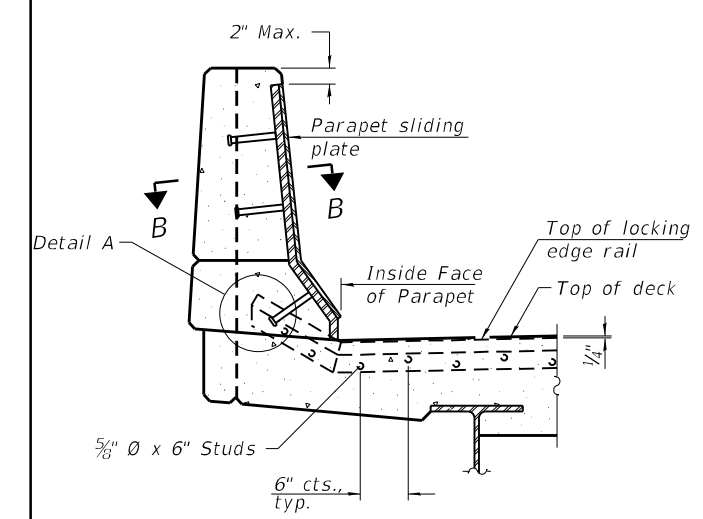


FOR SKEWS  $> 30^\circ$

**PLAN AT PARAPET**

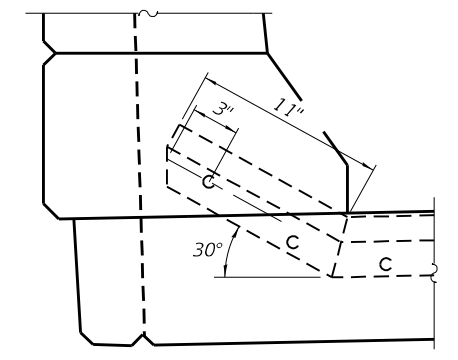


**SECTION B-B**

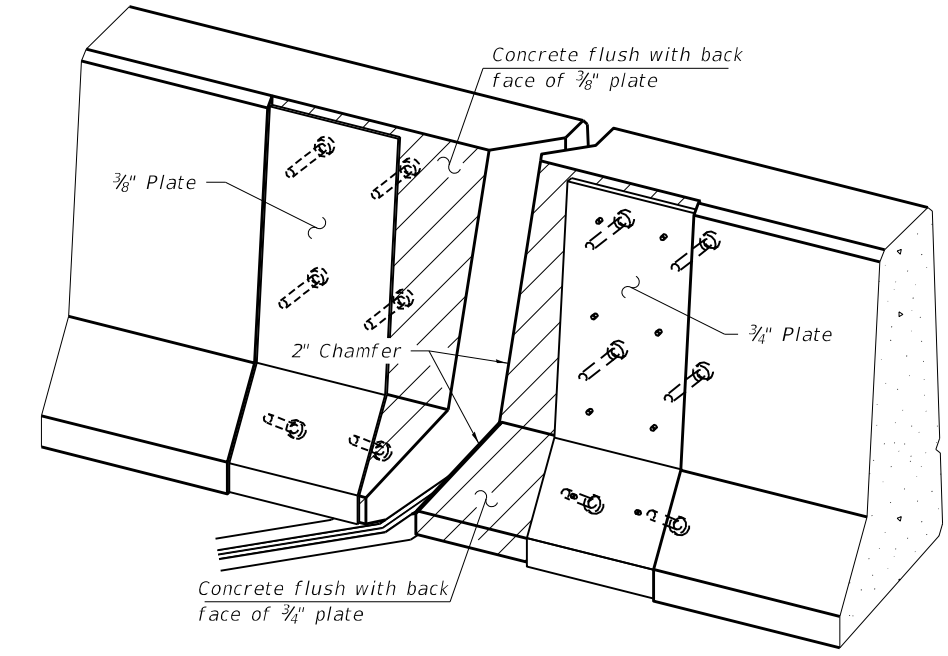


**ELEVATION AT PARAPET**

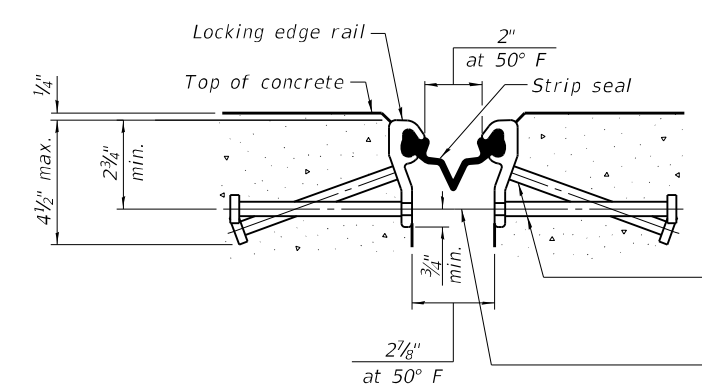
(Skews  $> 30^\circ$  shown. Skews  $\leq 30^\circ$  similar except as shown in plan view.)



**DETAIL A**



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



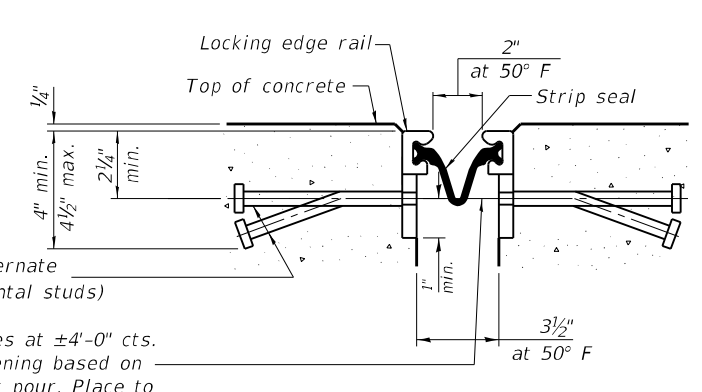
SHOWING ROLLED RAIL JOINT

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

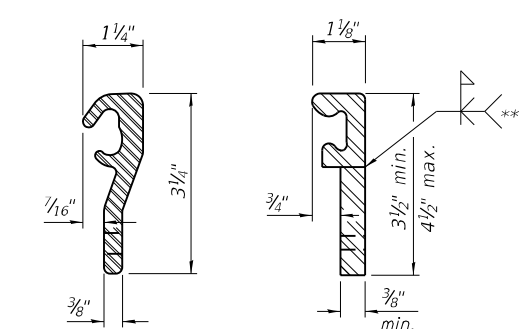
$3/8"$   $\phi$  threaded rods in  $7/16"$   $\phi$  holes at  $\pm 4"-0"$  cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

**SECTION A-A**

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

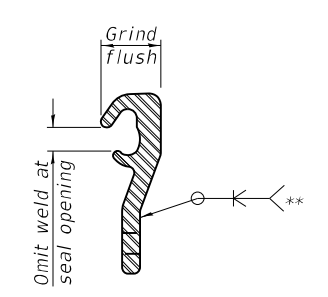


SHOWING WELDED RAIL JOINT



**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	65

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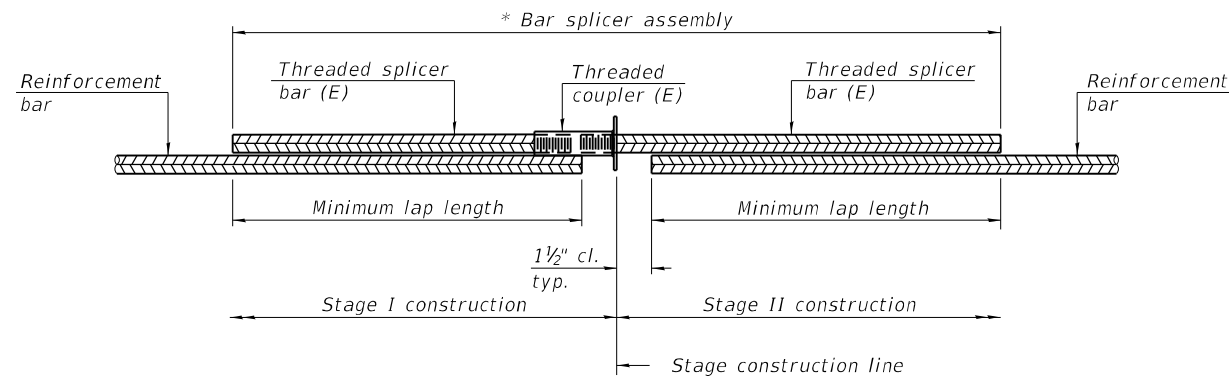
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PLOT SCALE = 100,0000' / in.	DRAWN - T. Walk	REVISED -
PLOT DATE = 4/8/2022	CHECKED - D. Macklin	REVISED -
	DATE - Jan, 2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PREFORMED JOINT STRIP SEAL  
S.N. 058-0008**

SCALE: SHEET 7 OF 15 SHEETS STA. TO STA.

F.A.P. RTE. 710	SECTION (48X-1, 48X-2)RS-2(128)RS-3	COUNTY MACON	TOTAL SHEETS 89	SHEET NO. 58
			CONTRACT NO. 74780	
ILLINOIS FED. AID PROJECT				

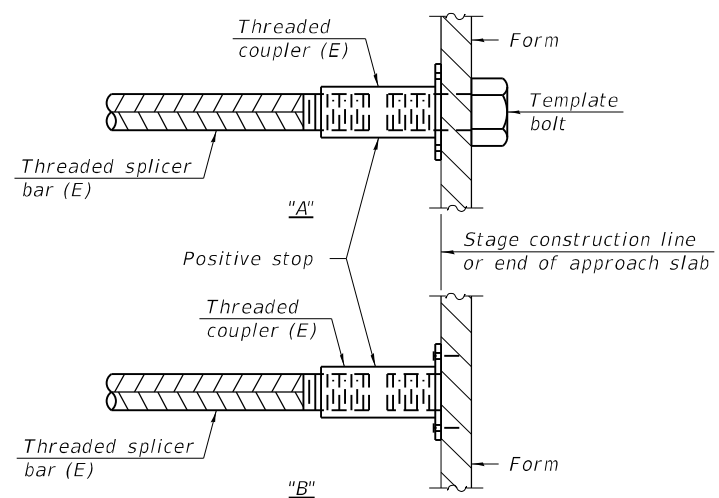


**STANDARD BAR SPLICER ASSEMBLY PLAN**  
 (All components shall be provided from one supplier)

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

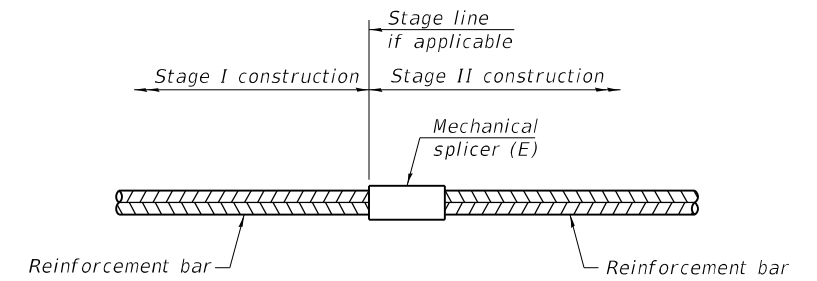
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

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



**INSTALLATION AND SETTING METHODS**

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



**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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PLOT DATE = 4/8/2022	DATE - Jan, 2021	REVISED -

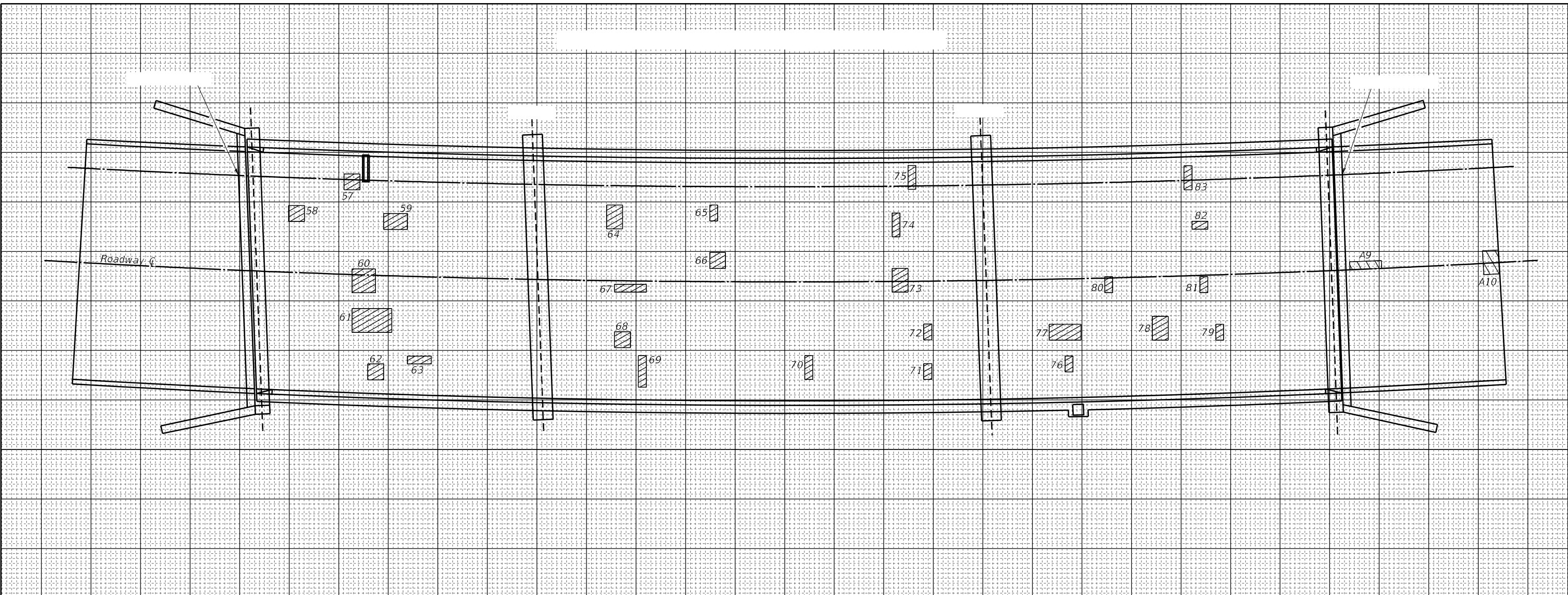
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
 STRUCTURE NO. 058-0008**

SCALE: SHEET 8 OF 15 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	59
			CONTRACT NO. 74780	
		ILLINOIS FED. AID PROJECT		

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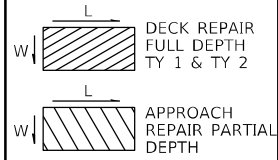


PATCH NO.	SIZE		DECK SLAB REPAIR (FD TY I)	DECK SLAB REPAIR (FD TY II)
	LENGTH	WIDTH	SQ YD	SQ YD
57	2.0	2.0	0.4	
58	2.0	2.0	0.4	
59	3.0	2.0		0.7
60	3.0	3.0		1.0
61	5.0	3.0		1.7
62	2.0	2.0	0.4	
63	3.0	1.0	0.3	
64	2.0	3.0		0.7
65	1.0	2.0	0.2	
66	2.0	2.0	0.4	
67	4.0	1.0	0.4	
68	2.0	2.0	0.4	
69	1.0	4.0	0.4	
70	1.0	3.0	0.3	
71	1.0	2.0	0.2	
72	1.0	2.0	0.2	

PATCH NO.	SIZE		DECK SLAB REPAIR (FD TY I)	DECK SLAB REPAIR (FD TY II)
	LENGTH	WIDTH	SQ YD	SQ YD
73	2.0	3.0		0.7
74	1.0	3.0	0.3	
75	1.0	3.0	0.3	
76	1.0	2.0	0.2	
77	4.0	2.0		0.9
78	2.0	3.0		0.7
79	1.0	2.0	0.2	
80	1.0	2.0	0.2	
81	1.0	2.0	0.2	
82	2.0	1.0	0.2	
83	1.0	3.0	0.3	
TOTALS			6.6	6.2
ROUND TO:			7.0	7.0

PATCH NO.	SIZE		APPROACH SLAB REPAIR (PARTIAL DEPTH)	APPROACH SLAB REPAIR (FULL DEPTH)
	LENGTH	WIDTH	SQ YD	SQ YD
A9	1.0	4.0	0.4	
A10	2.0	3.0	0.7	
TOTALS			1.1	0
ROUND TO:			2.0	0

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



DATE OF SURVEY: 12-01-2020  
 SURVEY BY: DPM & TMW  
 METHOD OF SURVEY: VISUAL

**ESTIMATED PAY QUANTITIES**  
 DECK SLAB REPAIR (FULL DEPTH, TYPE 1) = 7.0 SQ YD  
 DECK SLAB REPAIR (FULL DEPTH, TYPE 2) = 7.0 SQ YD  
 APPROACH SLAB REPAIR (PARTIAL DEPTH) = 2.0 SQ YD

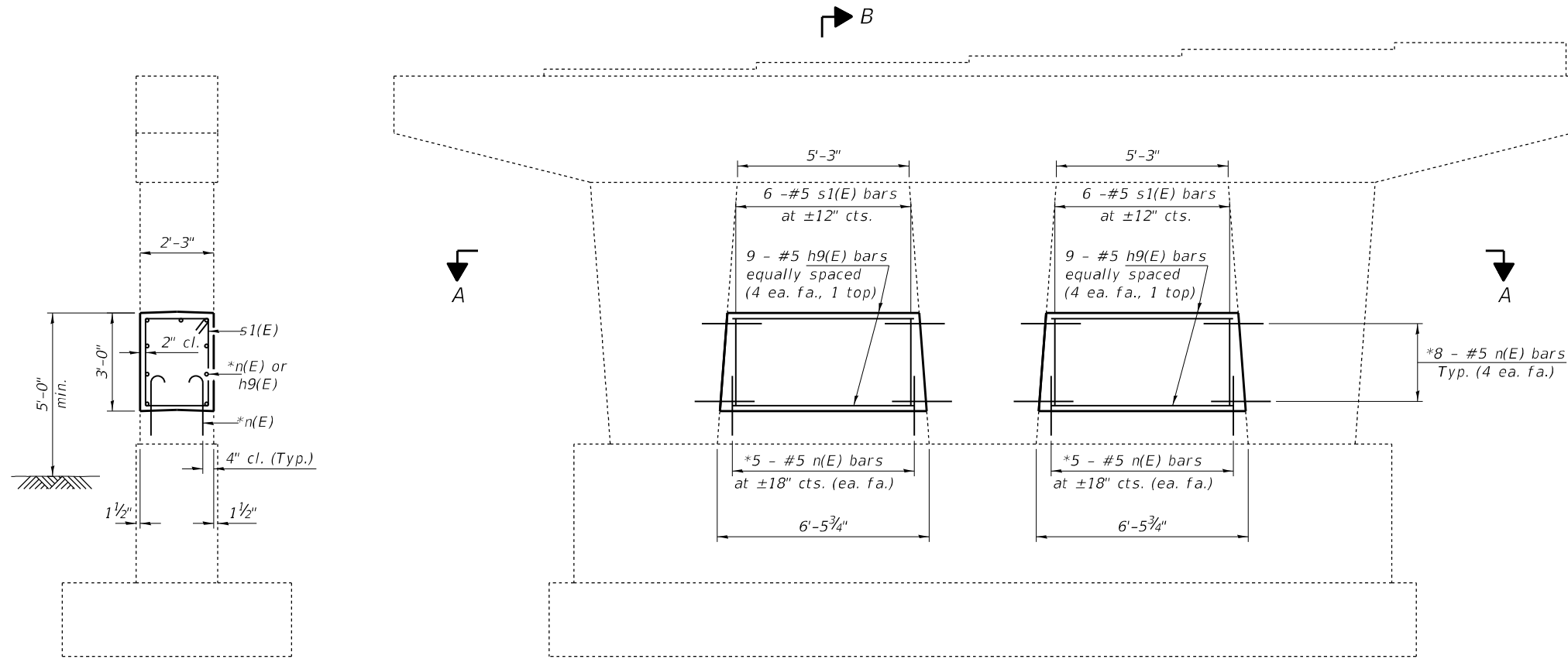
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PLOT DATE = 4/8/2022	CHECKED - D. Macklin	REVISED -
	DATE - Jan, 2021	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>BRIDGE DECK PATCHING &amp; APPROACH REPAIR</b>		
<b>SN. 058-0008</b>		
SCALE:	SHEET 9 OF 15 SHEETS	STA. TO STA.

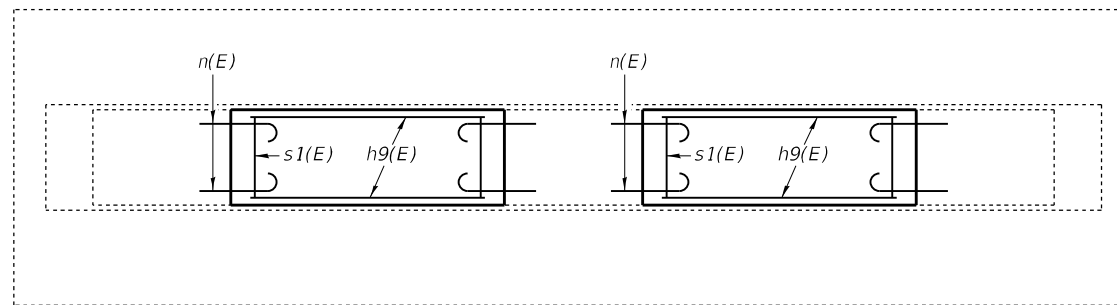
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	60
CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				

\* Epoxy grout n(E) bars in 9" min. holes according to Article 584 of the Standard Specifications

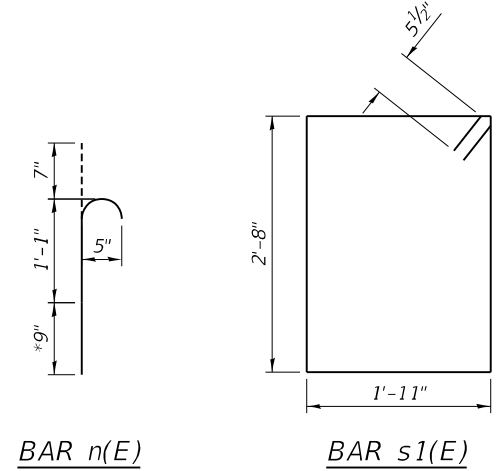


**SECTION B-B**

**ELEVATION**  
Looking North



**SECTION A-A**



**BAR n(E)**

**BAR s1(E)**

**Notes**

Quantities and locations of Structural Repair of Concrete are approximated. Actual quantities and locations to be determined in the field by the Engineer.

Structural Repair of Concrete is intended to repair only areas of severe deterioration. Some minor deteriorated areas may be left unrepaired.

The cost of epoxy grouting threaded rods shall be included with Reinforcement Bars, Epoxy Coated.

**BILL OF MATERIAL FOR REPAIRS ON PIERS & ABUTMENT**

Bar	No.	Size	Length	Shape	
h9(E)	18	#5	5'-8"	—	
h10(E)	18	#5	6'-0"	—	
n(E)	104	#5	2'-5"	⌋	
s1(E)	24	#5	10'-1"	□	
ITEM				UNIT	QUANTITY
Concrete Structures				Cu. Yd.	7.0
Reinforcement Bars, Epoxy Coated				Pound	740
Structural Repair of Concrete ≤ 5 inches				Sq. Ft.	20
Protective Coat				Sq. Yd.	23

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PLOT DATE = 4/8/2022	DATE - Jan, 2021	REVISED -

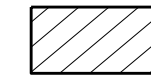
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PIER 1 REPAIRS & CRASHWALL EXTENSION  
S.N. 058-0008**

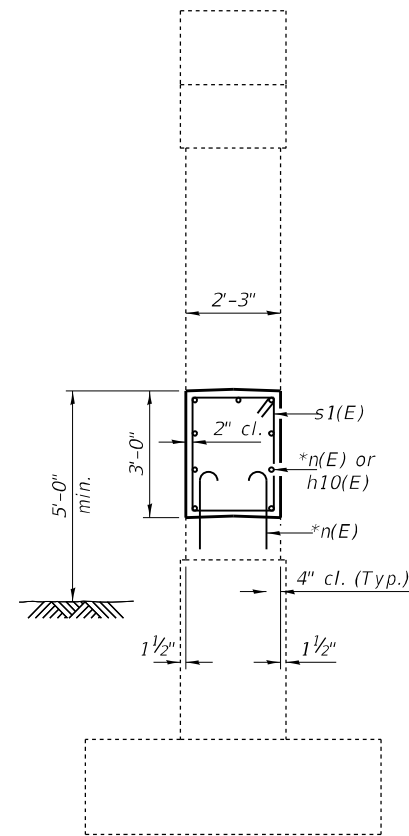
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	61
			CONTRACT NO. 74780	
ILLINOIS FED. AID PROJECT				

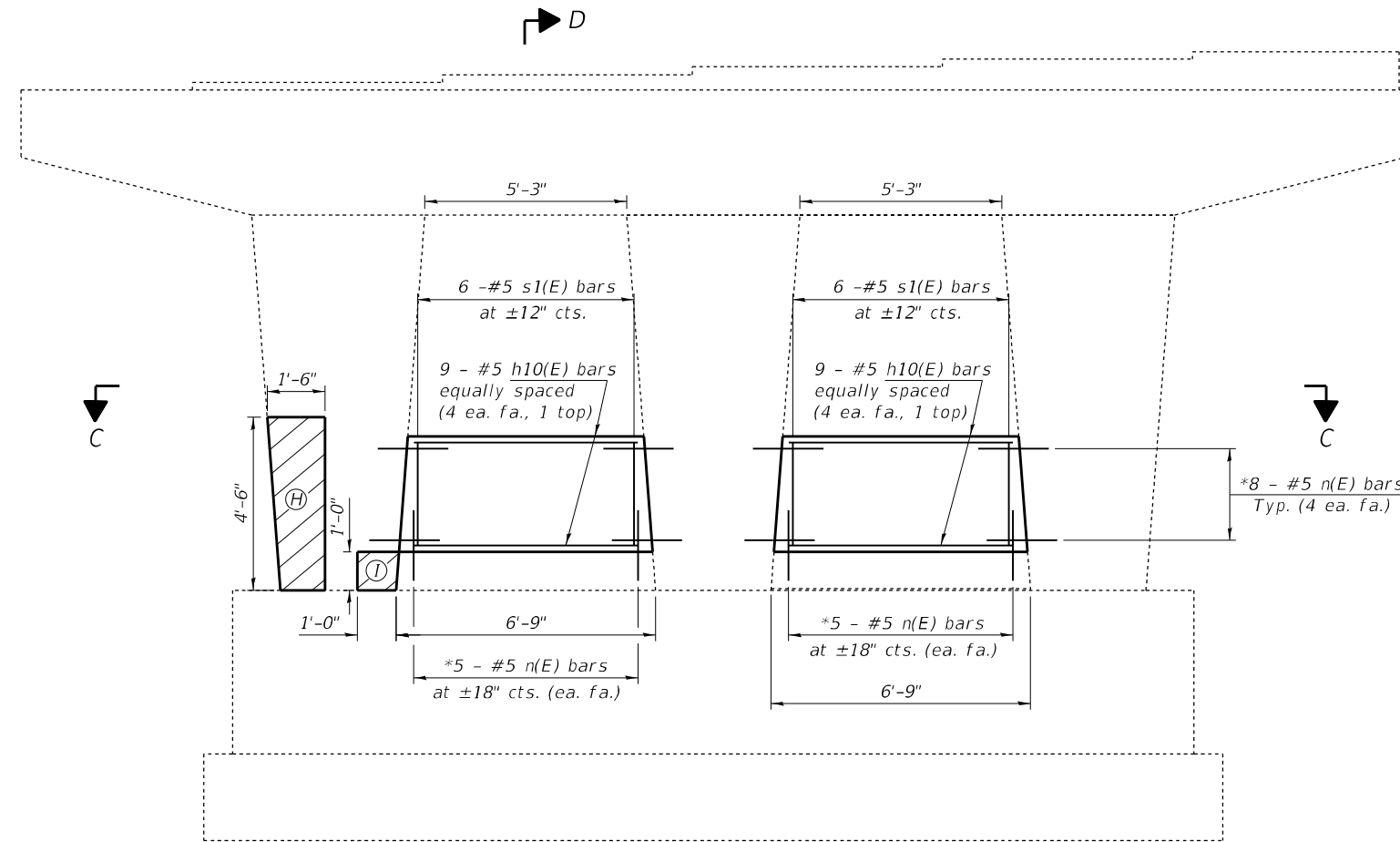
\* Epoxy grout n(E) bars in 9" min. holes according to Article 584 of the Standard Specifications



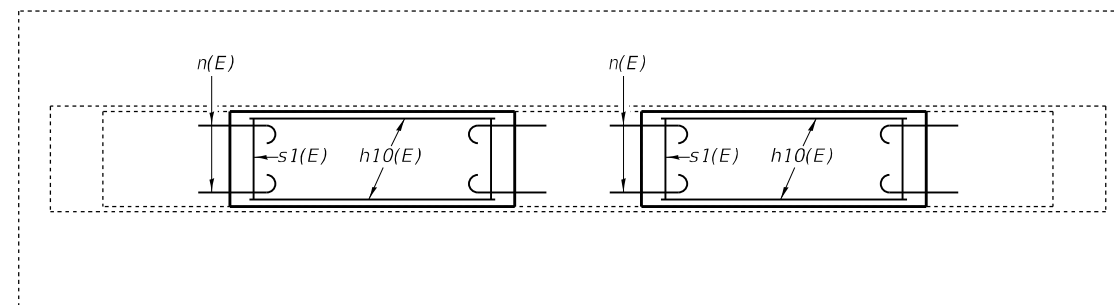
Structural Repair of Concrete (Depth ≤ 5")



SECTION D-D



ELEVATION  
Looking North



Section C-C

PIER 2 STRUCTURAL REPAIR OF  
CONCRETE (DEPTH ≤ 5")

Location	Area SqFt
H	7
I	1
Total	8

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 PLOT DATE = 4/8/2022

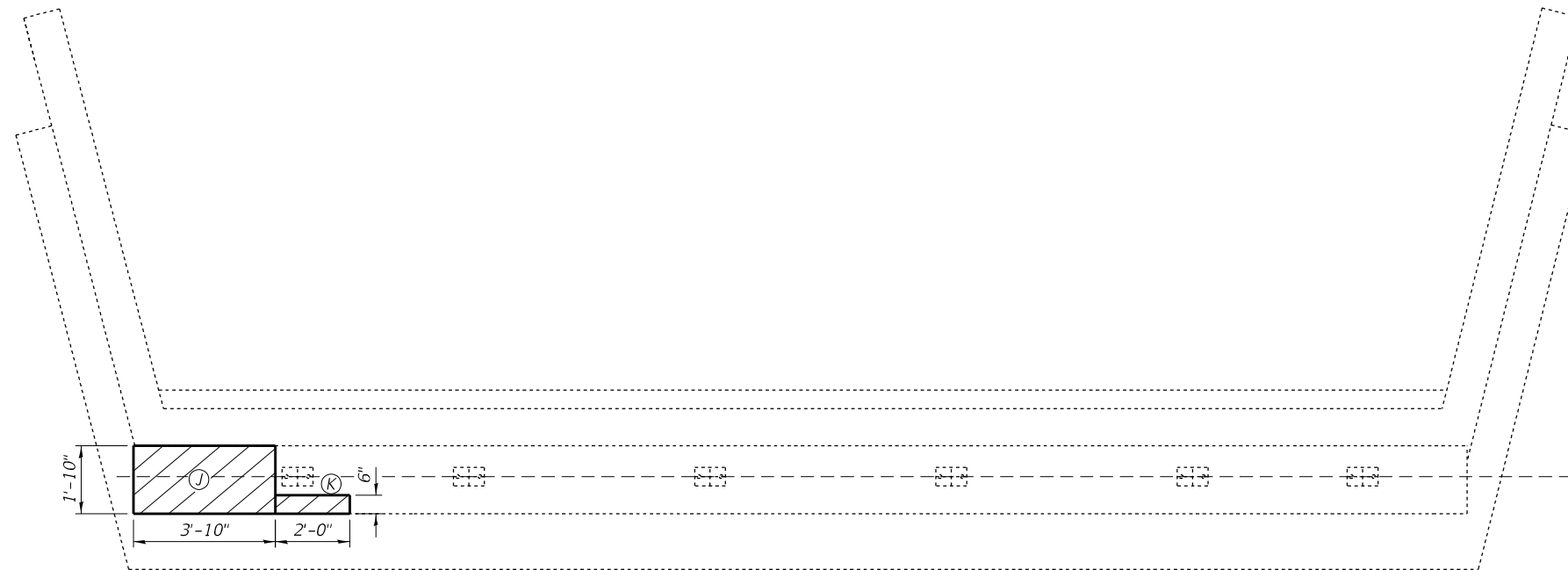
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PLOT DATE = 4/8/2022	DATE - Jan, 2021	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PIER 2 REPAIRS & CRASHWALL EXTENSION  
S.N. 058-0008

SCALE: SHEET 11 OF 15 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	62
			CONTRACT NO. 74780	
ILLINOIS FED. AID PROJECT				



TOP VIEW

 Structural Repair of Concrete (Depth ≤ 5")



ELEVATION VIEW  
Looking North

NORTH ABUT. STRUCTURAL REPAIR OF CONCRETE (DEPTH ≤ 5")

Location	Area SqFt
J	7
K	2
L	3
Total	12

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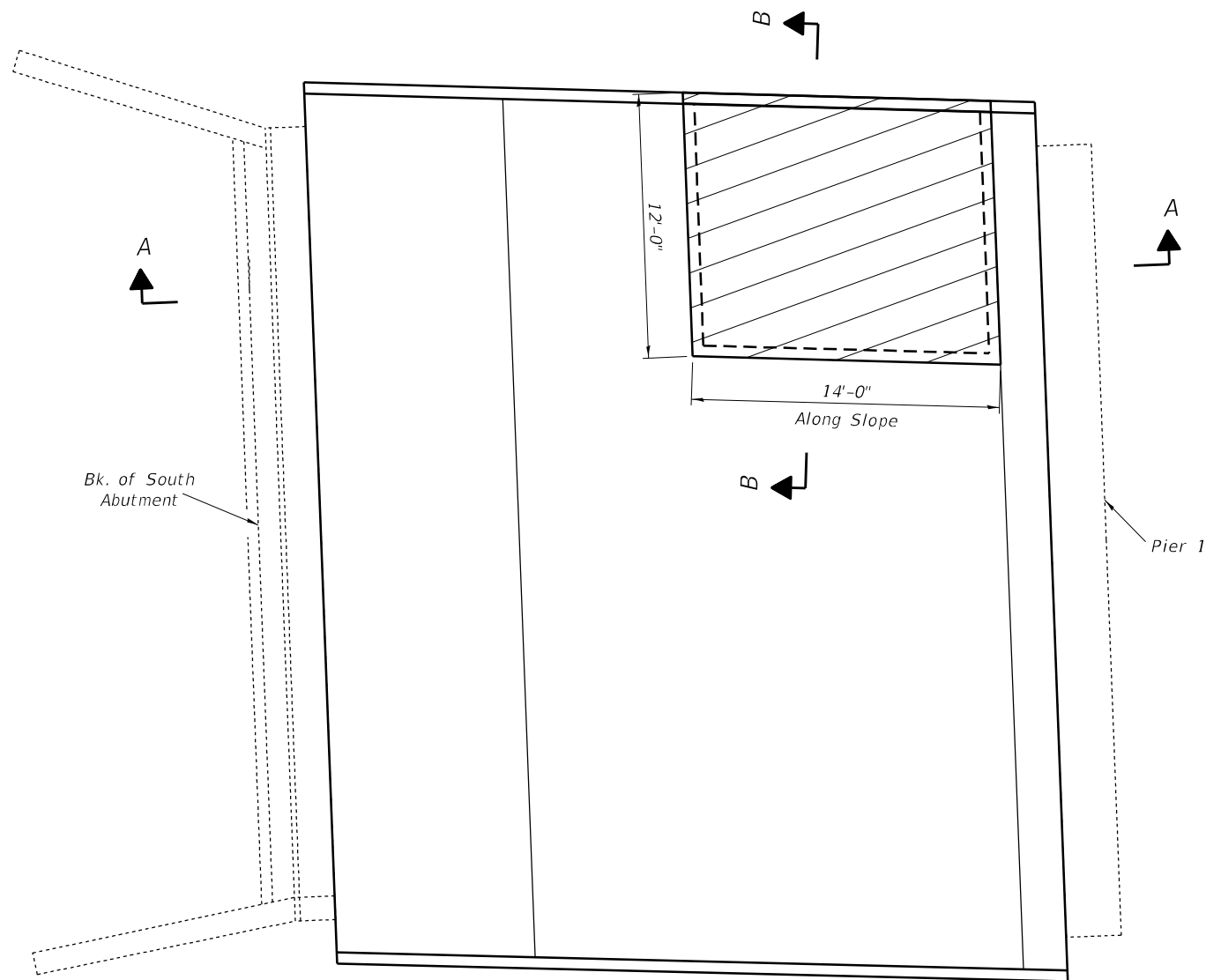
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

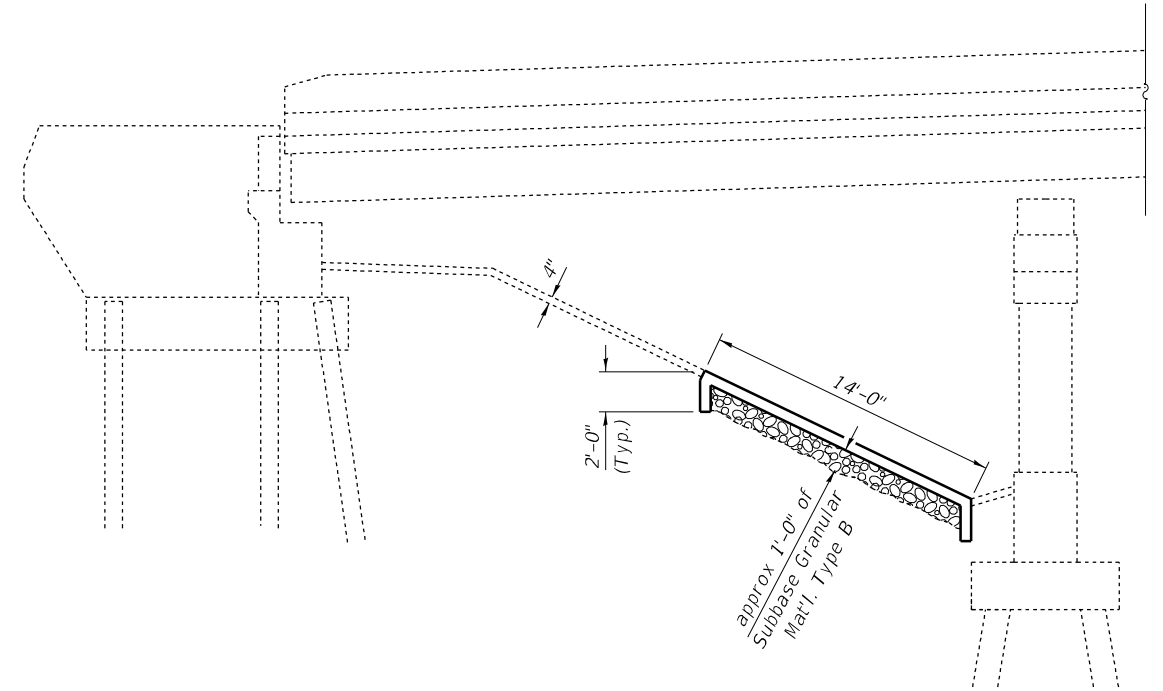
**STRUCTURAL REPAIR OF CONCRETE NORTH ABUTMENT  
S.N. 058-0008**

SCALE: SHEET 12 OF 15 SHEETS STA. TO STA.

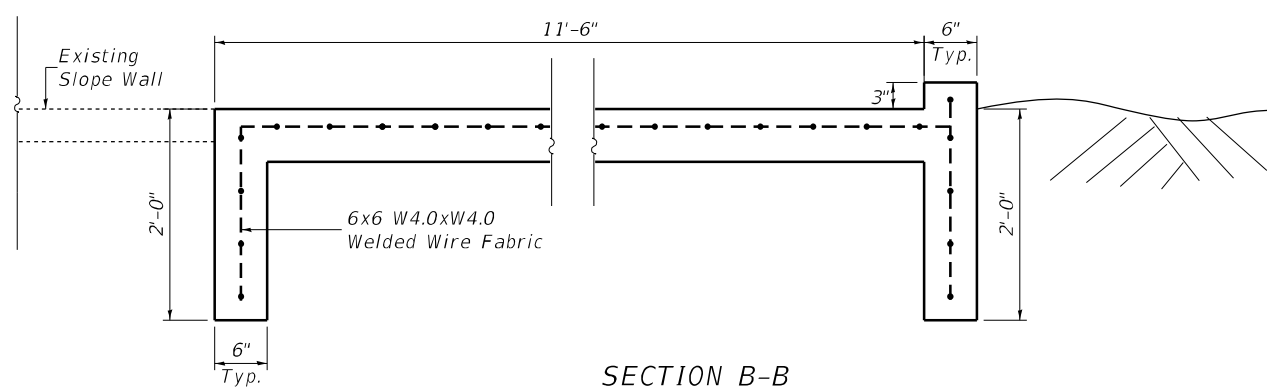
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	63
			CONTRACT NO. 74780	
ILLINOIS FED. AID PROJECT				



PLAN VIEW SLOPEWALL



ELEVATION VIEW  
SECTION A-A



SECTION B-B

Prior to partial removal of any concrete structure a 3/4" deep saw cut shall be made along all boundaries of the removal area. Saw cuts will be included with the cost of slope wall removal.

In areas of voids under the existing slope wall the embankment shall be reconstructed with Subbase Granular Material, Type B. The Subbase Granular Material shall be gradation CA6 unless otherwise specified by the Engineer.

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
Slope Wall Removal	SQ YD	19
Slope Wall 6 Inch	SQ YD	19
Protective Coat	SQ YD	20
Subbase Granular Material, Type B	TON	13

MODEL: Default  
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PLOT SCALE = 100,0000' / in.	DRAWN - T. Walk	REVISED -
PLOT DATE = 4/8/2022	CHECKED - D. Macklin	REVISED -
	DATE - Jan, 2021	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

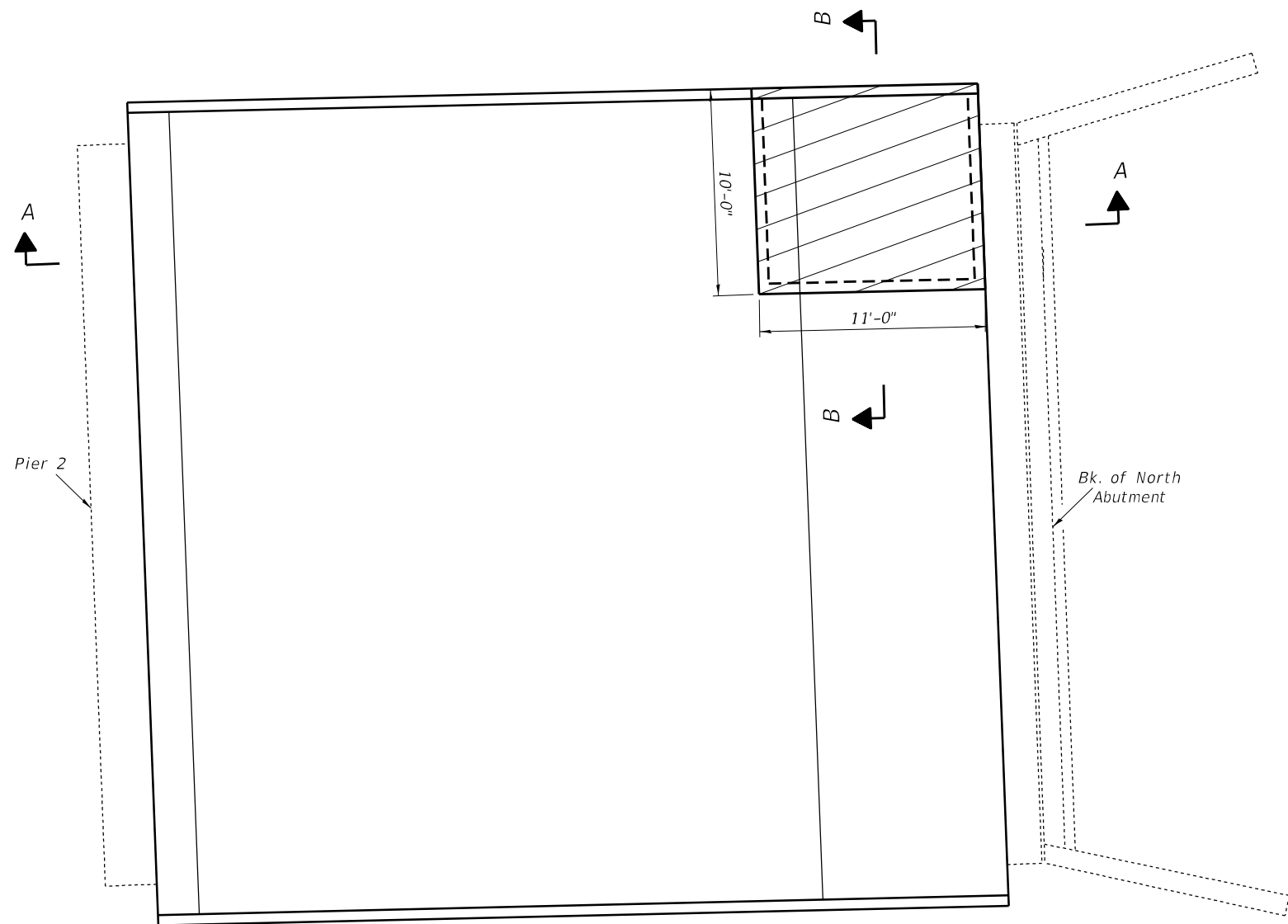
SOUTH SLOPEWALL REPAIRS  
S.N. 058-0008

SCALE: SHEET 13 OF 15 SHEETS STA. TO STA.

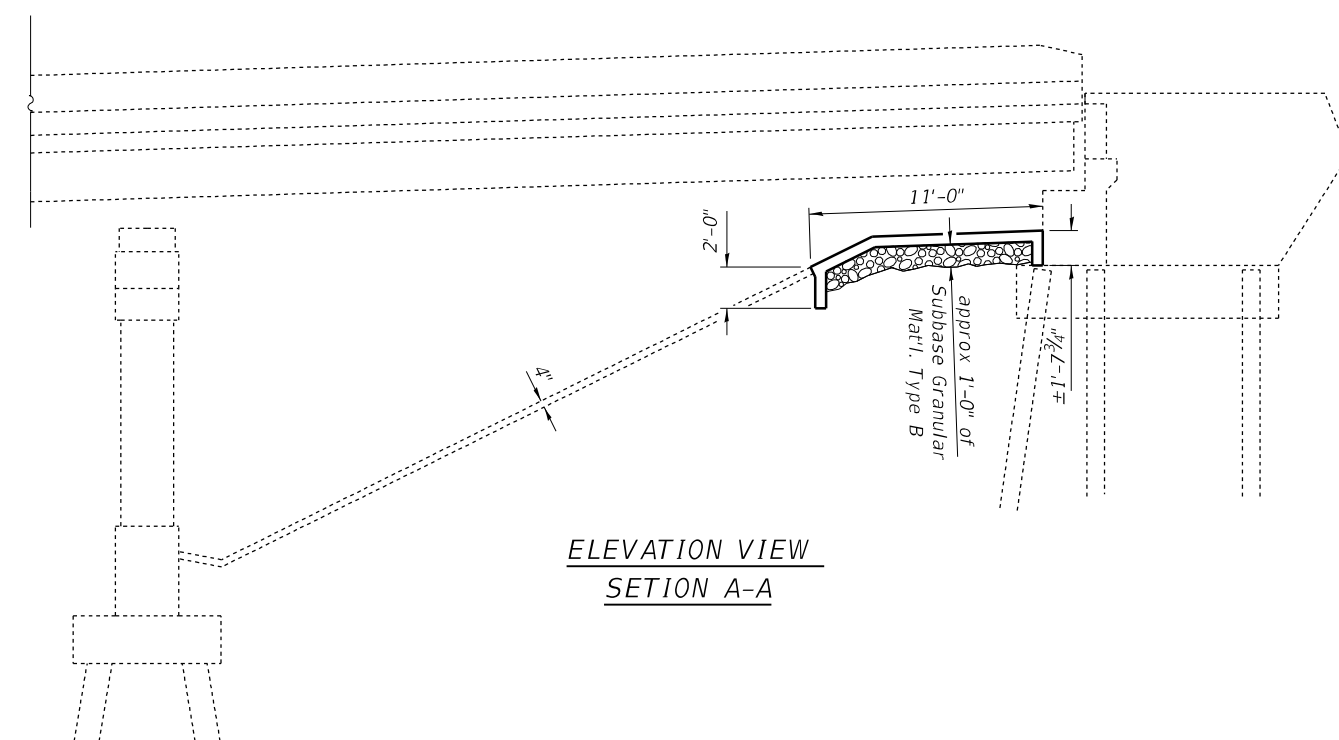
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	64
			CONTRACT NO. 74780	
		ILLINOIS	FED. AID PROJECT	



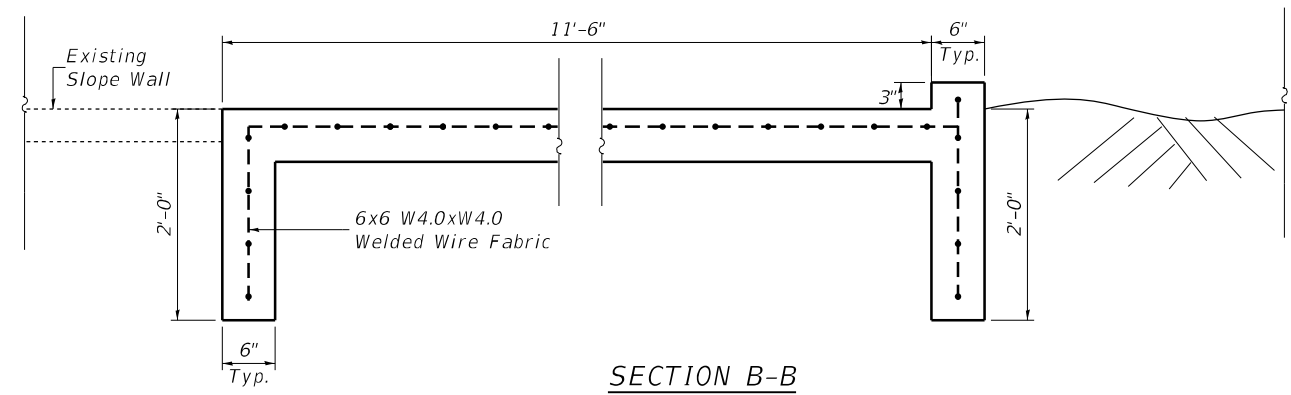
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 PROJECT: 74780



**PLAN VIEW SLOPEWALL**



**ELEVATION VIEW SECTION A-A**



**SECTION B-B**

Prior to partial removal of any concrete structure a 3/4" deep saw cut shall be made along all boundaries of the removal area. Saw cuts will be included with the cost of slope wall removal.

In areas of voids under the existing slope wall the embankment shall be reconstructed with Subbase Granular Material, Type B. The Subbase Granular Material shall be gradation CA6 unless otherwise specified by the Engineer.

**BILL OF MATERIALS**

ITEM	UNIT	QUANTITY
Slope Wall Removal	SQ YD	13
Slope Wall 6 Inch	SQ YD	13
Protective Coat	SQ YD	15
Subbase Granular Material, Type B	TON	9

USER NAME = steffenmk	DESIGNED - T. Walk	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - T. Walk	REVISED -
PLOT DATE = 4/8/2022	CHECKED - D. Macklin	REVISED -
	DATE - Jan, 2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

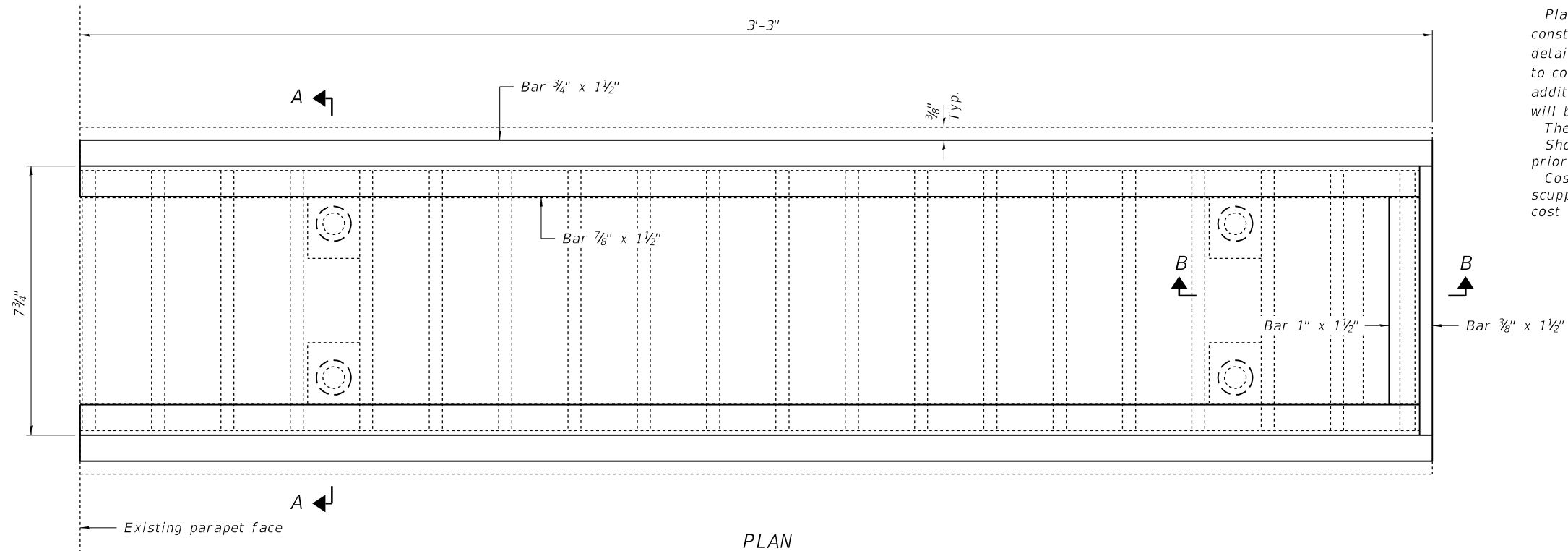
**NORTH SLOPEWALL REPAIRS  
S.N. 058-0008**

SCALE: SHEET 14 OF 15 SHEETS STA. TO STA.

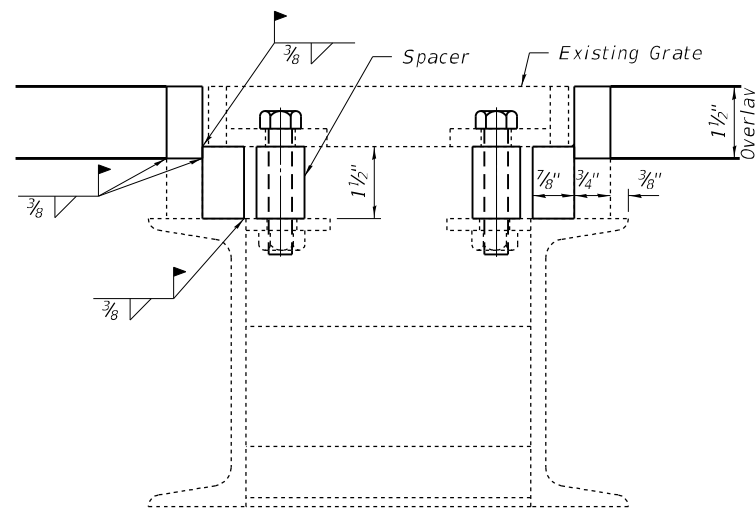
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710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	65
CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				

**GENERAL NOTES**

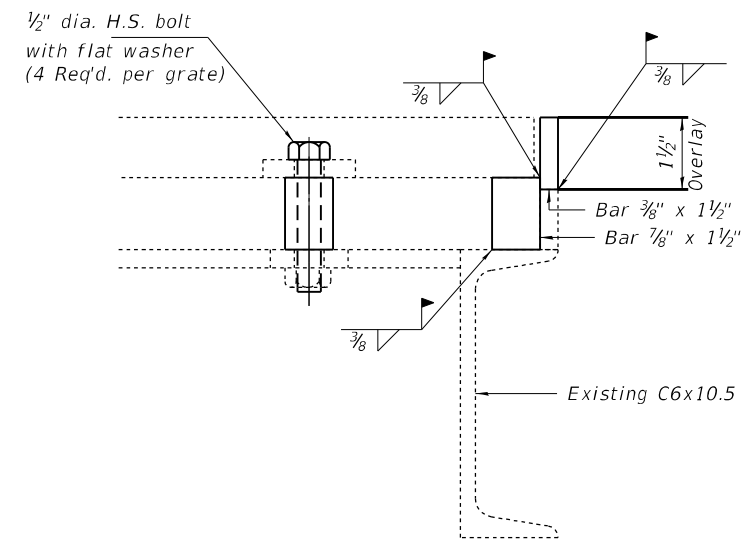
All structural steel shall conform to AASHTO Classification M-270 Gr. 36.  
 The adjusting scupper ring shall be galvanized.  
 Bolts shall be 1/2" dia., AASHTO M164 Type I, mechanically galvanized.  
 Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.  
 The contractor shall ensure that no damage is done to existing grates to be reused.  
 Shop plans for proposed adjusting scupper ring shall be submitted for approval prior to fabrication.  
 Cost of all labor and materials necessary to remove existing grates, clean existing scuppers, install adjusting scupper rings and reinstalling grates is included in the cost per unit each for Drainage Scupper To Be Adjusted.



PLAN



SECTION A-A



SECTION B-B

**BILL OF MATERIAL**

Item	Unit	Total
Drainage Scupper To Be Adjusted	Each	1

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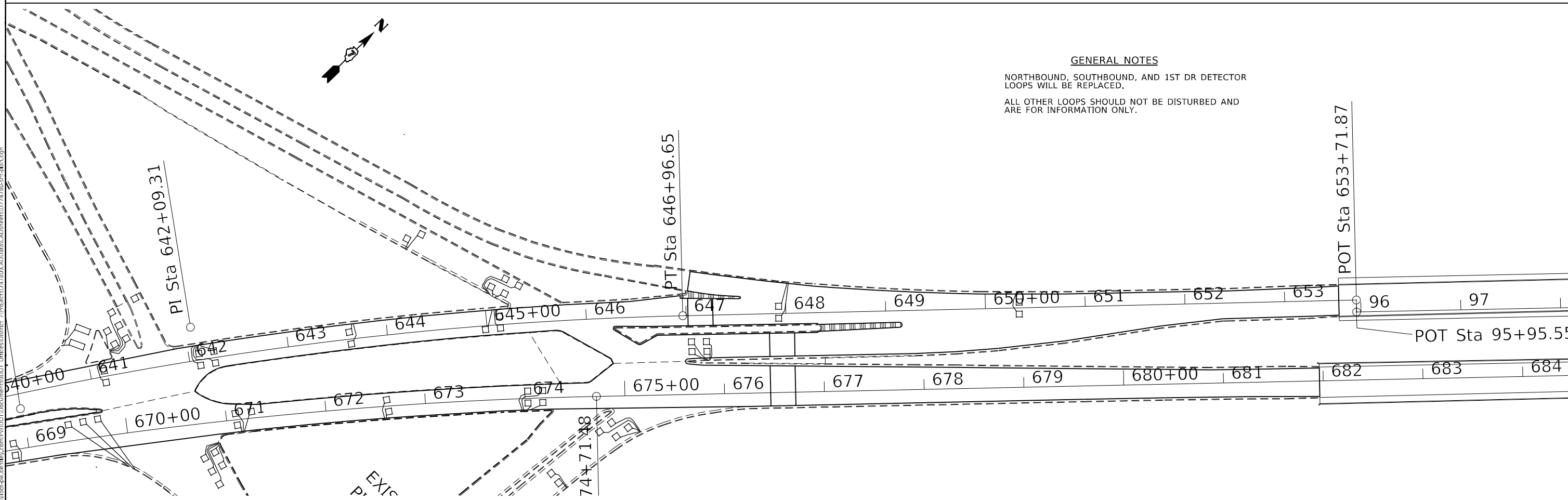
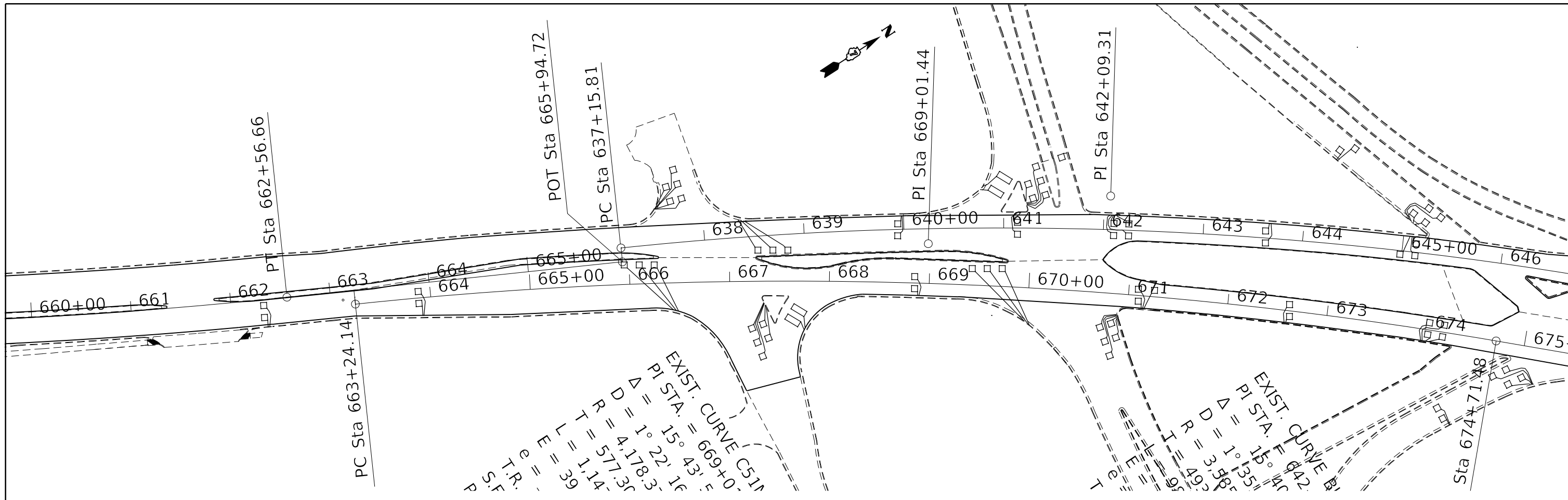
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PLOT DATE = 4/8/2022	CHECKED - D. MacKlin	REVISED -
	DATE - Jan, 2021	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ADJUSTING EXISTING SCUPPER  
 S.N. 058-0008**

SCALE: SHEET 15 OF 15 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	66
CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				



**GENERAL NOTES**

NORTHBOUND, SOUTHBOUND, AND 1ST DR DETECTOR  
 LOOPS WILL BE REPLACED.  
 ALL OTHER LOOPS SHOULD NOT BE DISTURBED AND  
 ARE FOR INFORMATION ONLY.

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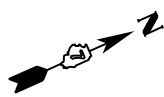
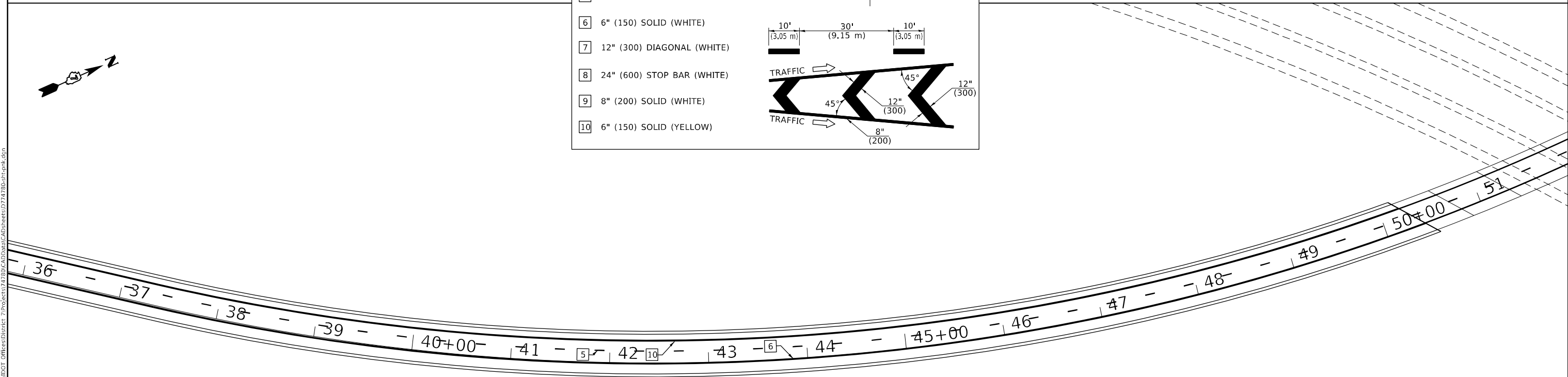
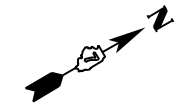
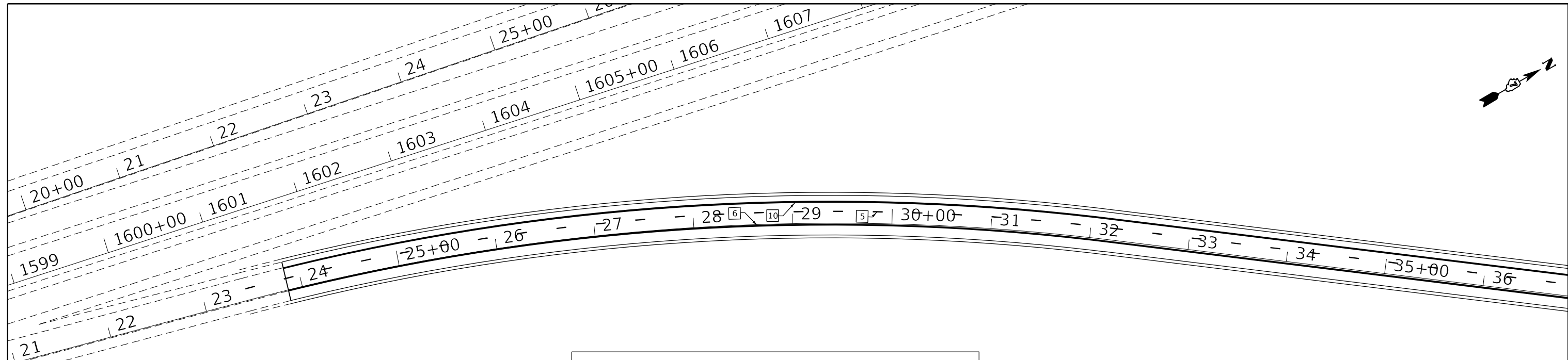
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PLOT DATE = 4/8/2022	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	67
CONTRACT NO. 74780				
ILLINOIS		FED. AID PROJECT		



**PAVEMENT MARKING LEGEND**      NOT TO SCALE

<p>1 4" (100) SKIP-DASH (YELLOW)</p> <p>2 4" (100) SOLID (YELLOW)</p> <p>3 12" (300) DIAGONAL (YELLOW)</p> <p>4 4" (100) DOUBLE YELLOW (NARROW)</p> <p>5 6" (150) SKIP-DASH (WHITE)</p> <p>6 6" (150) SOLID (WHITE)</p> <p>7 12" (300) DIAGONAL (WHITE)</p> <p>8 24" (600) STOP BAR (WHITE)</p> <p>9 8" (200) SOLID (WHITE)</p> <p>10 6" (150) SOLID (YELLOW)</p>	
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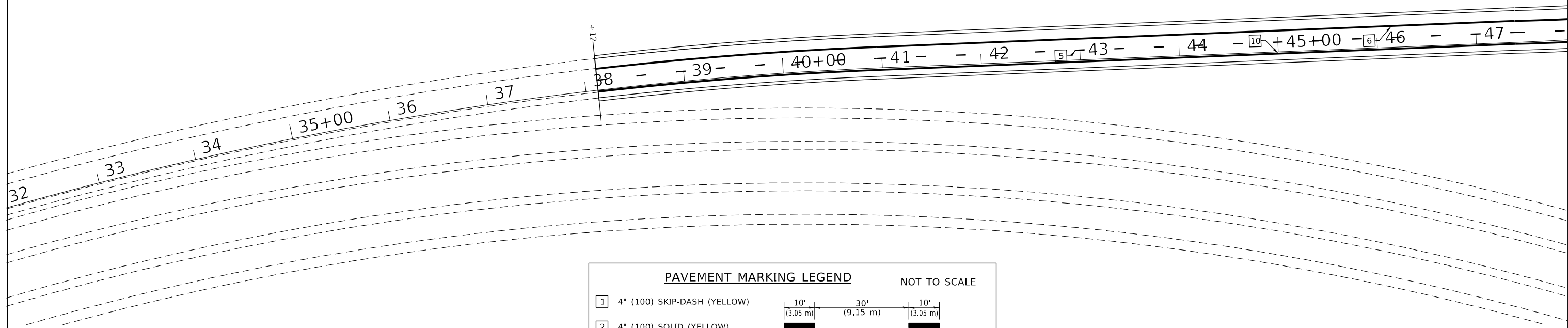
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DRAWN -	REVISOR -	
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PLOT DATE = 4/8/2022	DATE -	REVISOR -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

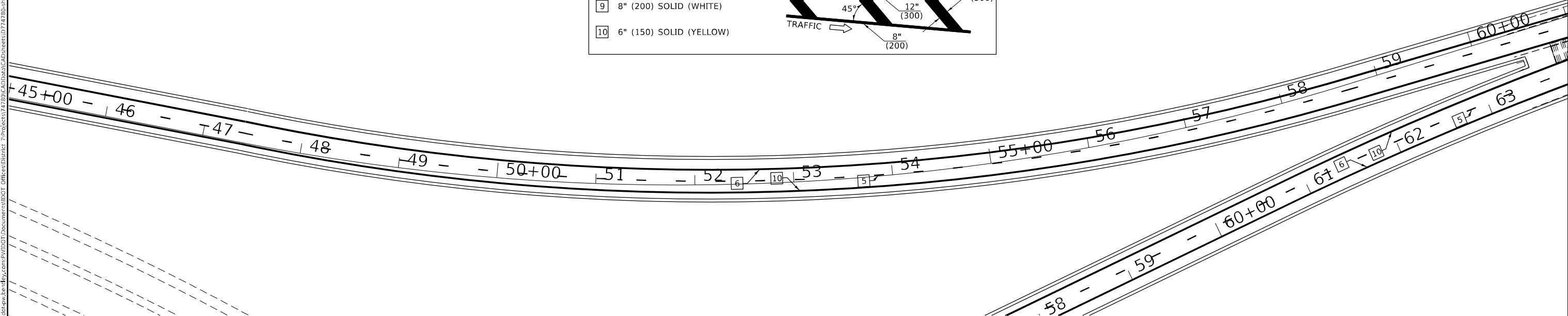
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SCALE:	SHEET 1	OF 12 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	68
CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				



**PAVEMENT MARKING LEGEND**      NOT TO SCALE

<p>1 4" (100) SKIP-DASH (YELLOW)</p> <p>2 4" (100) SOLID (YELLOW)</p> <p>3 12" (300) DIAGONAL (YELLOW)</p> <p>4 4" (100) DOUBLE YELLOW (NARROW)</p> <p>5 6" (150) SKIP-DASH (WHITE)</p> <p>6 6" (150) SOLID (WHITE)</p> <p>7 12" (300) DIAGONAL (WHITE)</p> <p>8 24" (600) STOP BAR (WHITE)</p> <p>9 8" (200) SOLID (WHITE)</p> <p>10 6" (150) SOLID (YELLOW)</p>	
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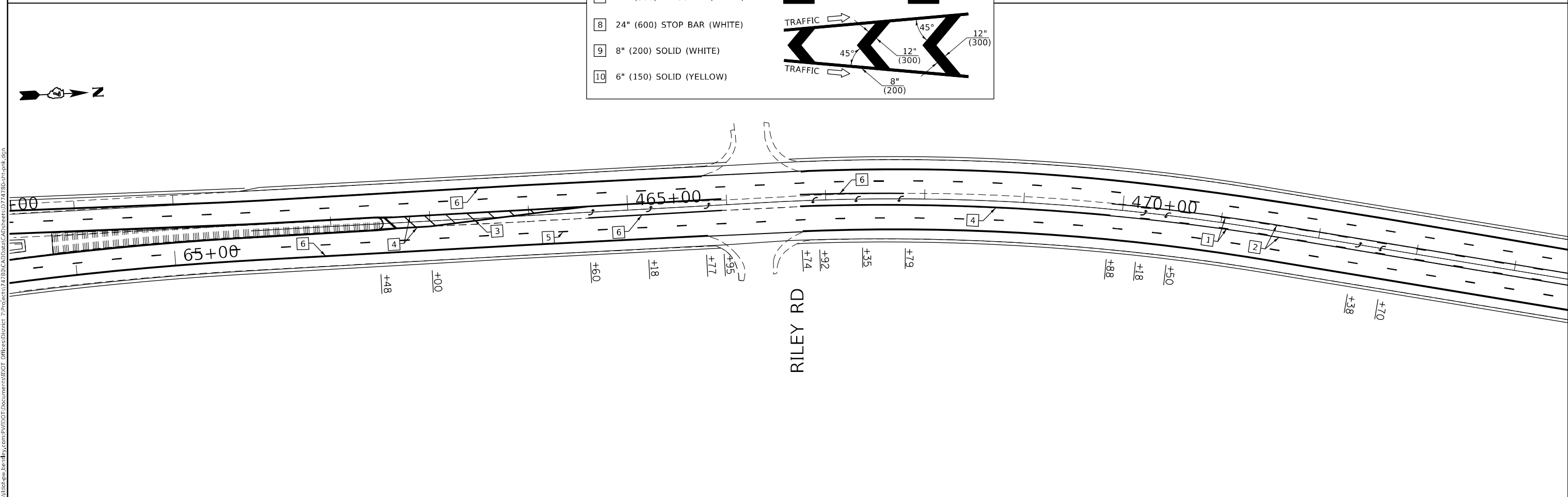
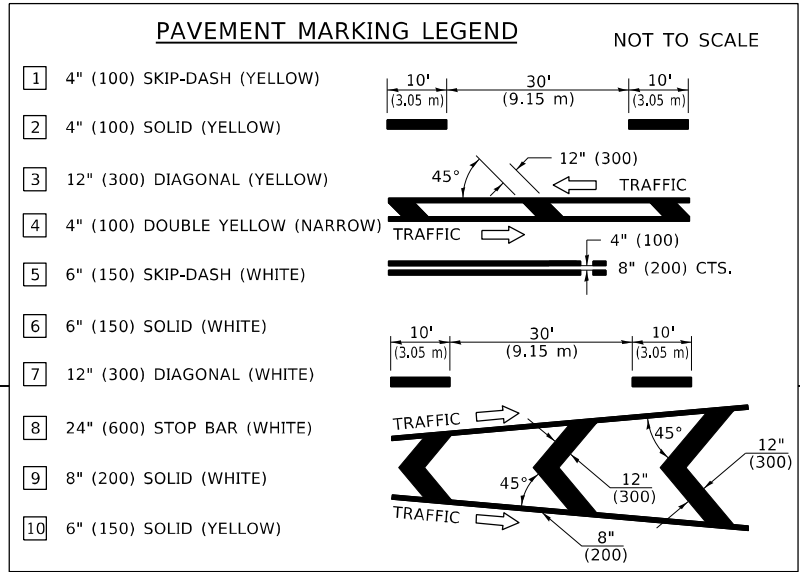
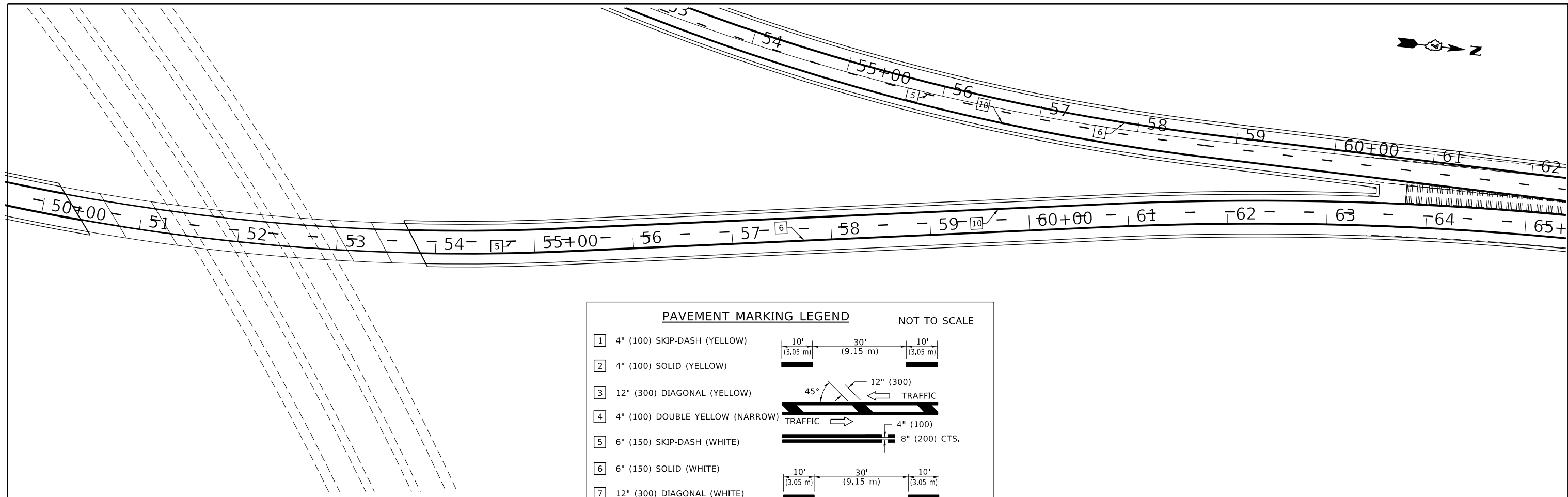
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DRAWN -	REVISOR -	
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISOR -
PLOT DATE = 4/8/2022	DATE -	REVISOR -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING DETAILS			
SCALE:	SHEET 2	OF 12 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	69
CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				



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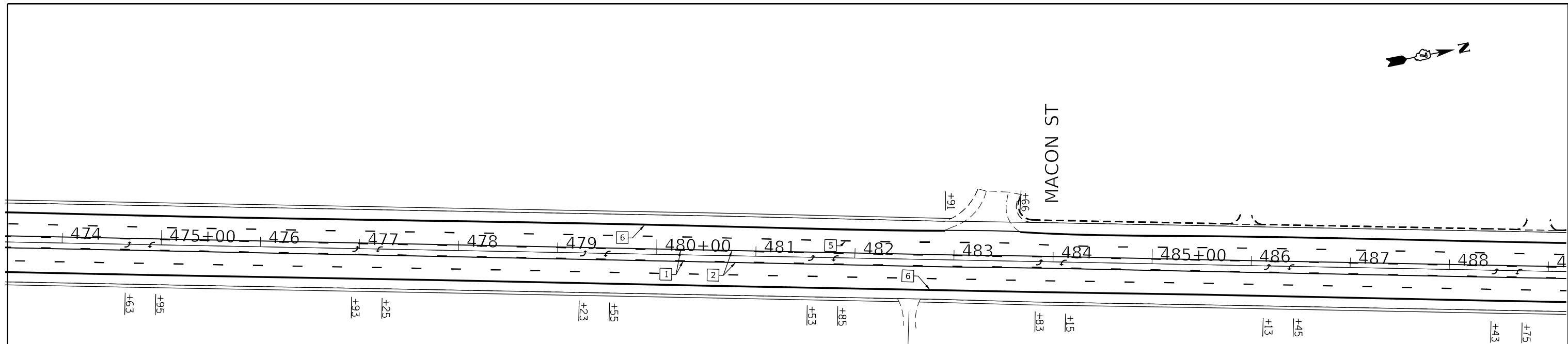
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING DETAILS			
SCALE:	SHEET 3	OF 12 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	70
CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				

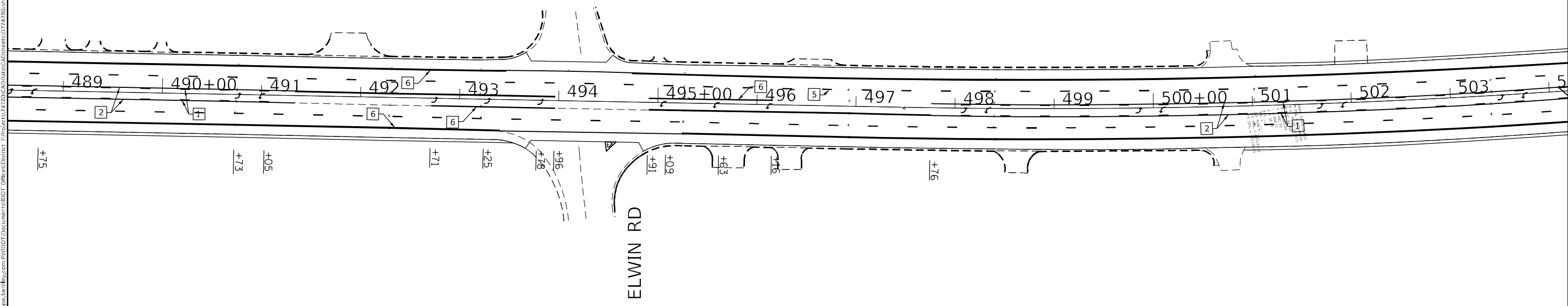


MACON ST



**PAVEMENT MARKING LEGEND**      NOT TO SCALE

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ELWIN RD

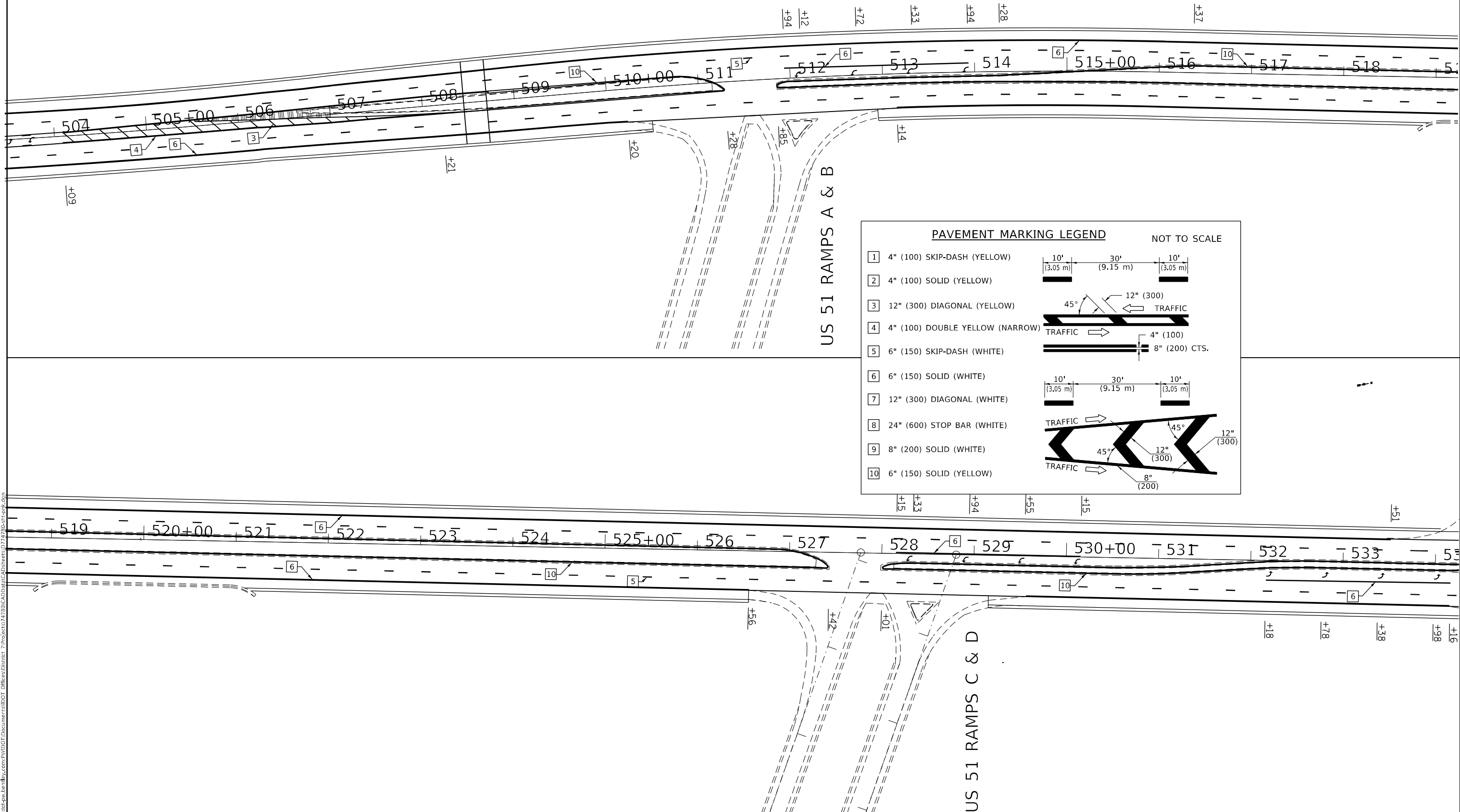
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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING DETAILS			
SCALE:	SHEET 4	OF 12 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	71
CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				



**PAVEMENT MARKING LEGEND**      NOT TO SCALE

<ul style="list-style-type: none"> <li>1 4" (100) SKIP-DASH (YELLOW)</li> <li>2 4" (100) SOLID (YELLOW)</li> <li>3 12" (300) DIAGONAL (YELLOW)</li> <li>4 4" (100) DOUBLE YELLOW (NARROW)</li> <li>5 6" (150) SKIP-DASH (WHITE)</li> <li>6 6" (150) SOLID (WHITE)</li> <li>7 12" (300) DIAGONAL (WHITE)</li> <li>8 24" (600) STOP BAR (WHITE)</li> <li>9 8" (200) SOLID (WHITE)</li> <li>10 6" (150) SOLID (YELLOW)</li> </ul>	
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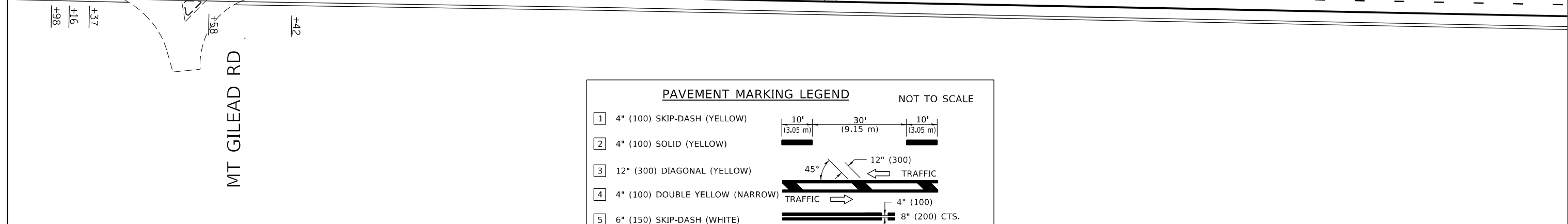
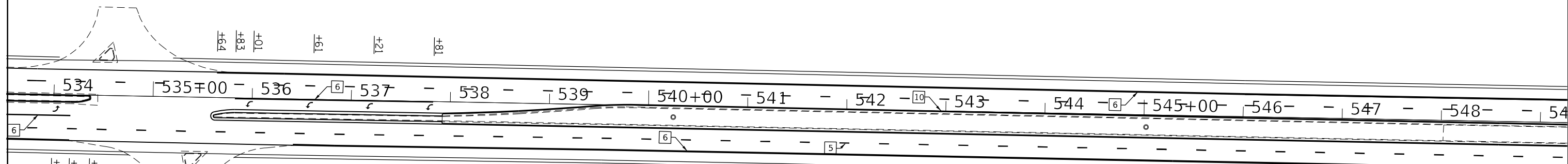
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING DETAILS			
SCALE:	SHEET 5	OF 12 SHEETS	STA. TO STA.

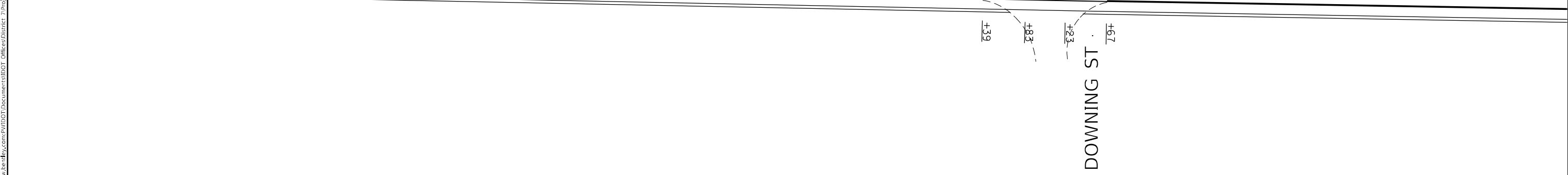
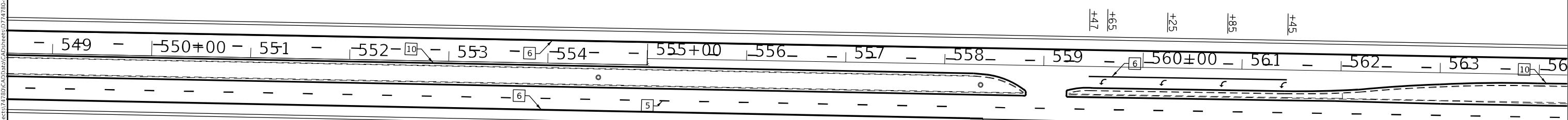
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710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	72
CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				





**PAVEMENT MARKING LEGEND**      NOT TO SCALE

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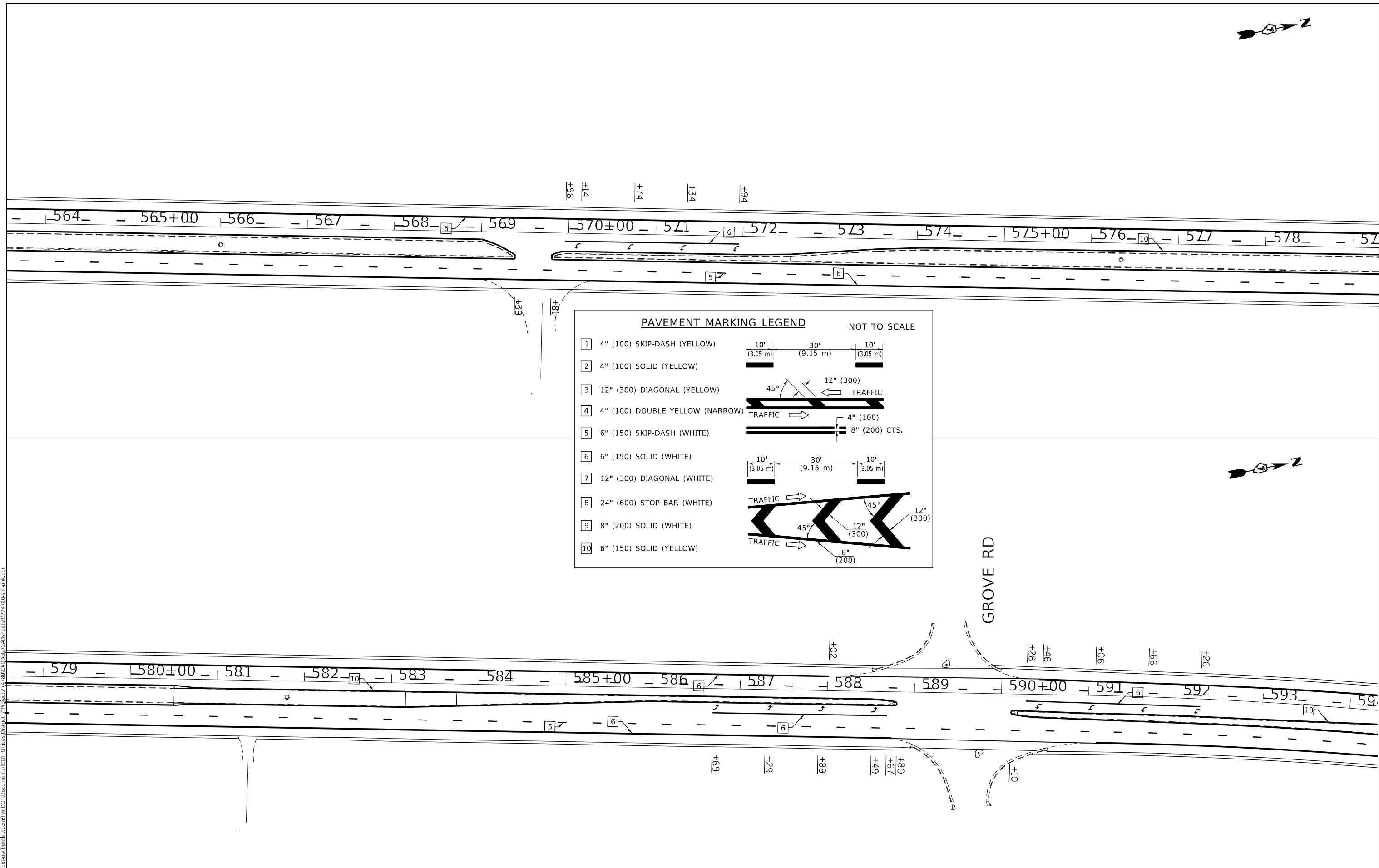
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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING DETAILS**

SCALE:      SHEET 6    OF 12    SHEETS    STA.      TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	73
CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				



**PAVEMENT MARKING LEGEND**

NOT TO SCALE

<ul style="list-style-type: none"> <li>1 4" (100) SKIP-DASH (YELLOW)</li> <li>2 4" (100) SOLID (YELLOW)</li> <li>3 12" (300) DIAGONAL (YELLOW)</li> <li>4 4" (100) DOUBLE YELLOW (NARROW)</li> <li>5 6" (150) SKIP-DASH (WHITE)</li> <li>6 6" (150) SOLID (WHITE)</li> <li>7 12" (300) DIAGONAL (WHITE)</li> <li>8 24" (600) STOP BAR (WHITE)</li> <li>9 8" (200) SOLID (WHITE)</li> <li>10 6" (150) SOLID (YELLOW)</li> </ul>	
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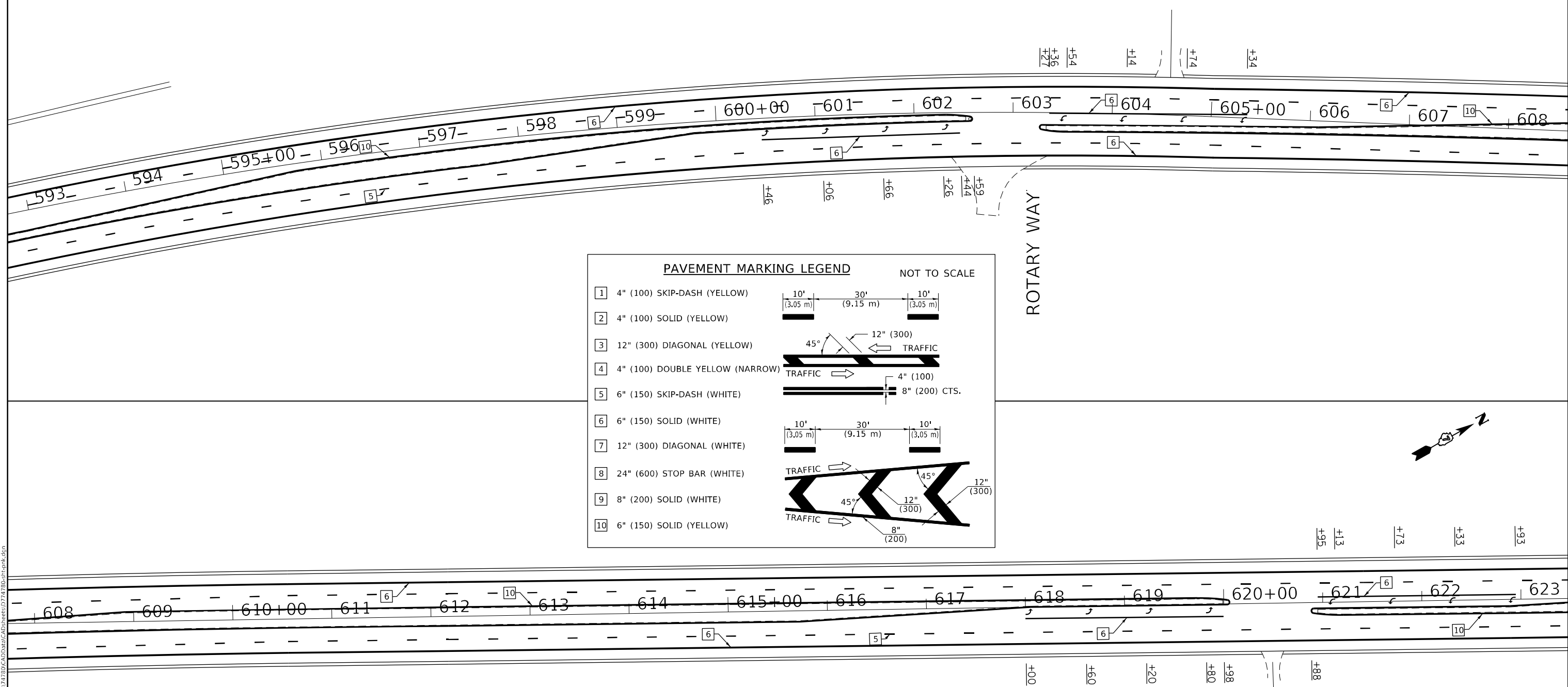
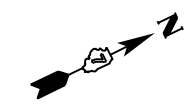
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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING DETAILS**

SCALE: SHEET 7 OF 12 SHEETS STA. TO STA.

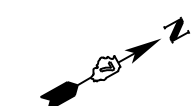
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710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	74
CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				



**PAVEMENT MARKING LEGEND**      NOT TO SCALE

<p>1 4" (100) SKIP-DASH (YELLOW)</p> <p>2 4" (100) SOLID (YELLOW)</p> <p>3 12" (300) DIAGONAL (YELLOW)</p> <p>4 4" (100) DOUBLE YELLOW (NARROW)</p> <p>5 6" (150) SKIP-DASH (WHITE)</p> <p>6 6" (150) SOLID (WHITE)</p> <p>7 12" (300) DIAGONAL (WHITE)</p> <p>8 24" (600) STOP BAR (WHITE)</p> <p>9 8" (200) SOLID (WHITE)</p> <p>10 6" (150) SOLID (YELLOW)</p>	         
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ROTARY WAY



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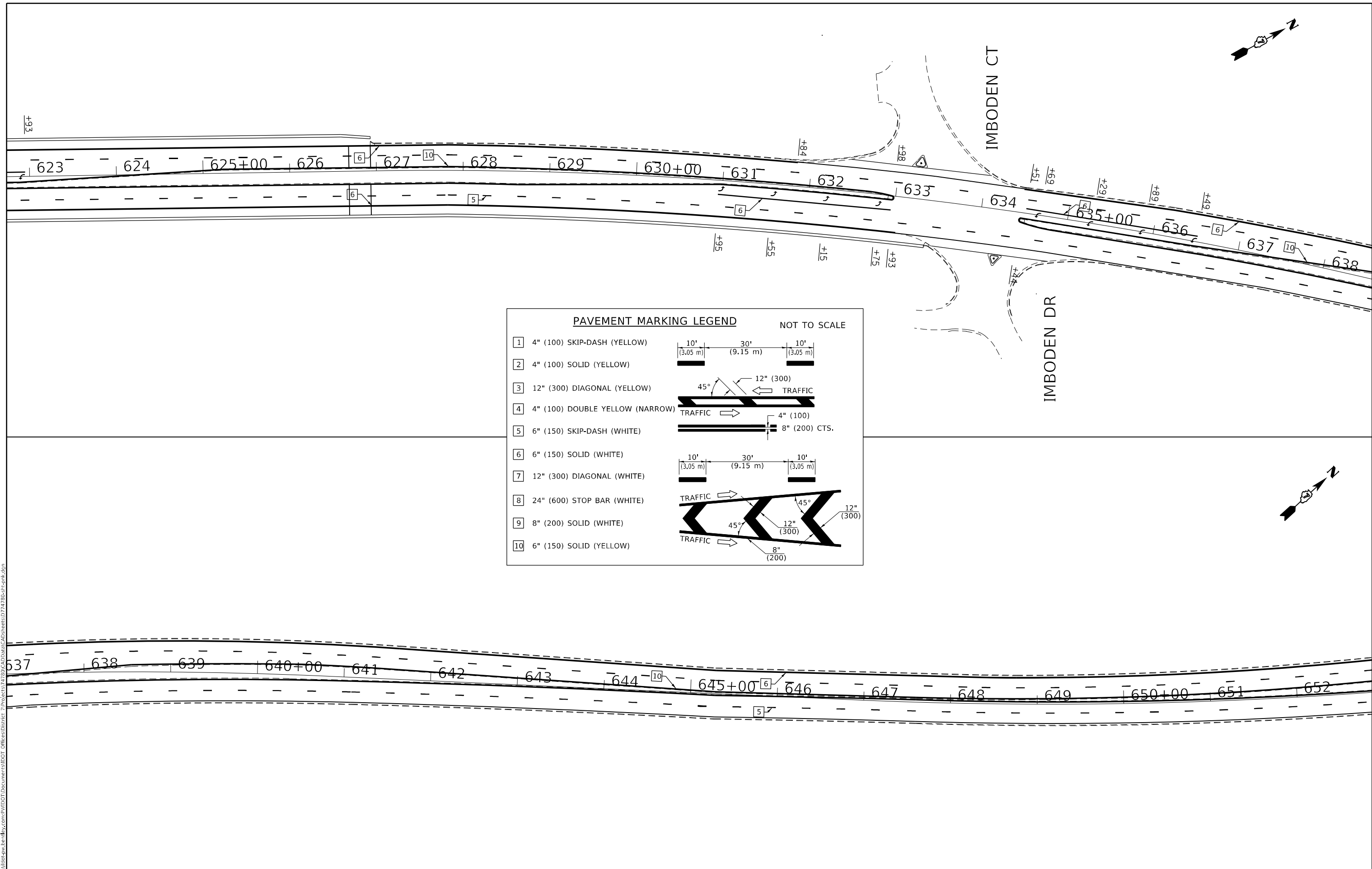
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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING DETAILS			
SCALE:	SHEET 8	OF 12 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	75
CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				

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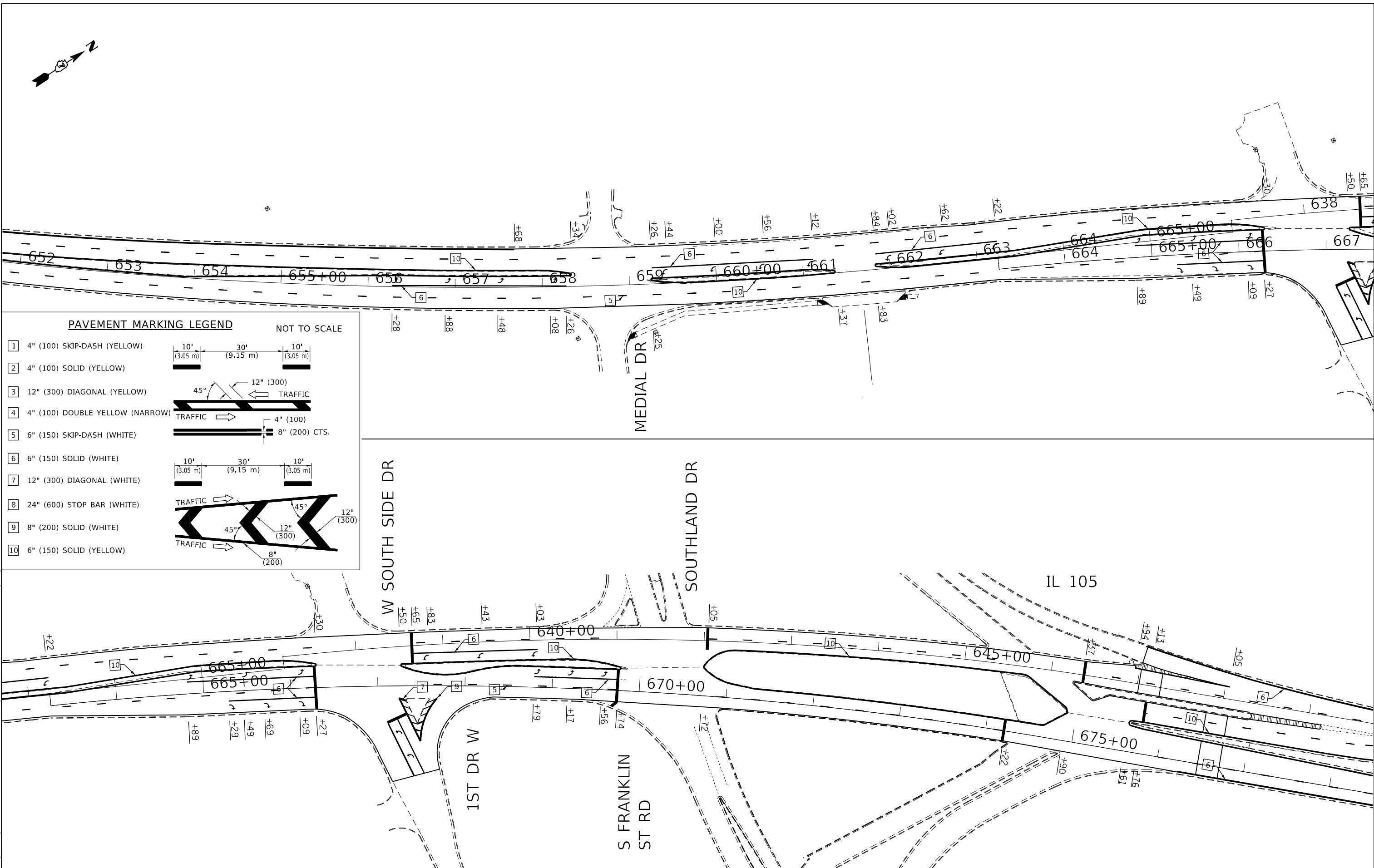
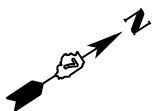
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PLOT DATE = 4/8/2022	DATE -	REVISED -

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

PAVEMENT MARKING DETAILS			
SCALE:	SHEET 9	OF 12 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	76
CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				



**PAVEMENT MARKING LEGEND**

NOT TO SCALE

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

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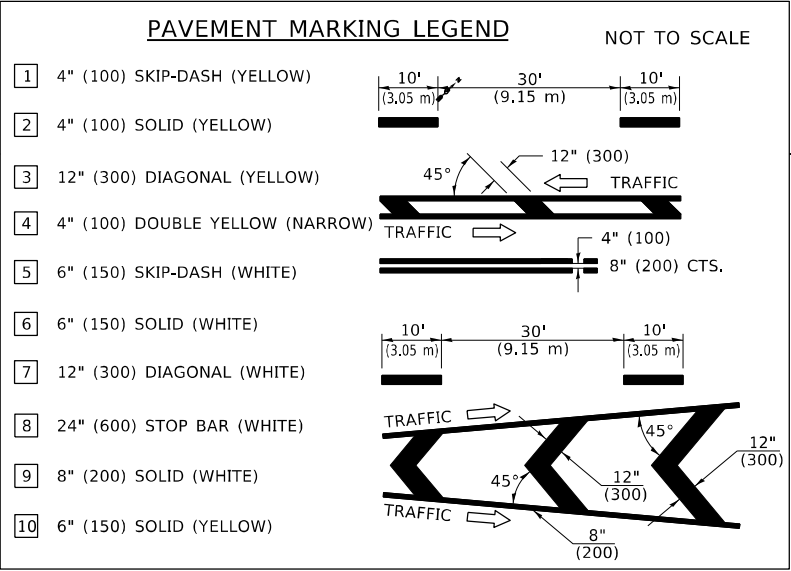
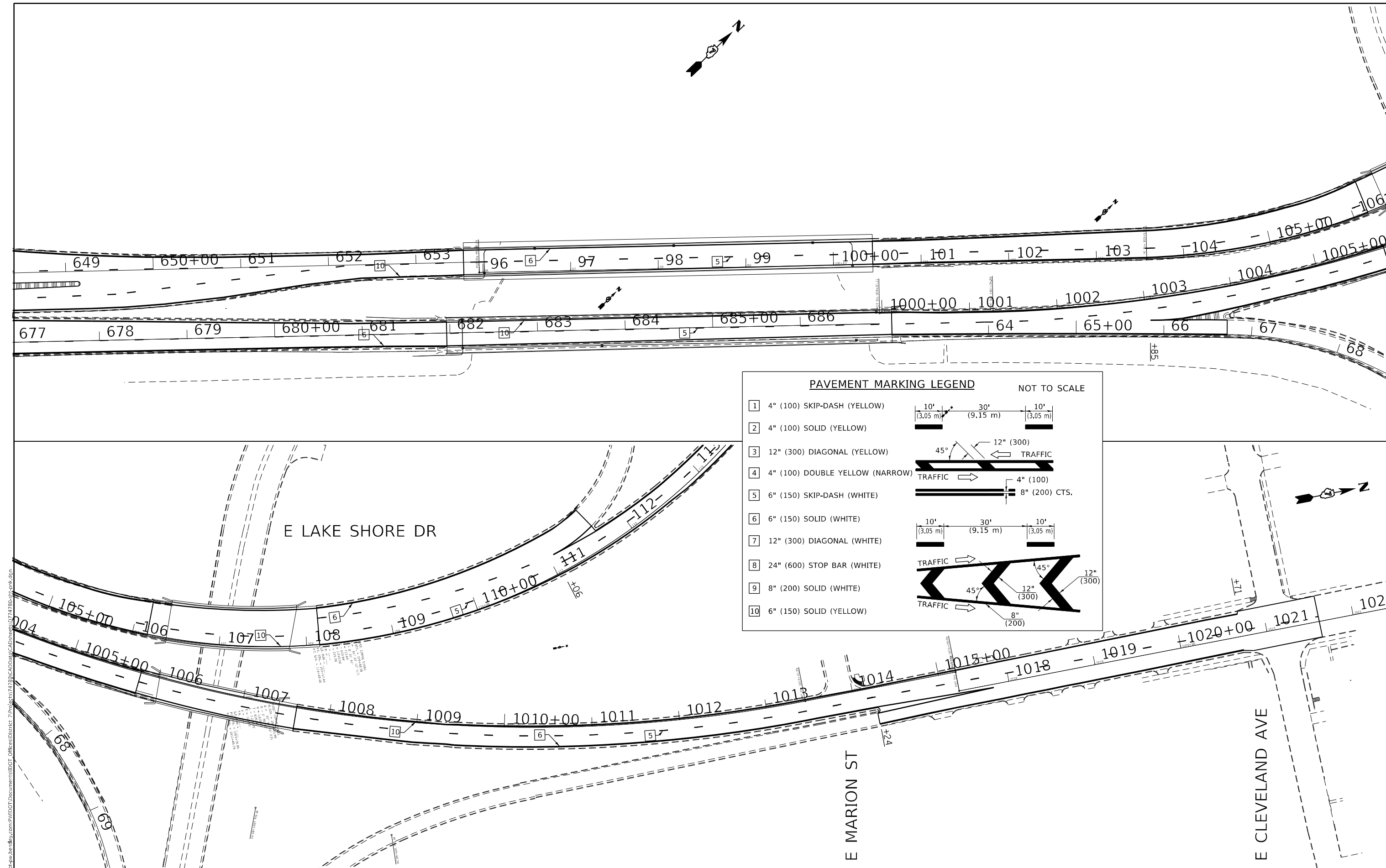
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	DRAWN -	REVISED -
	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING DETAILS**

SCALE: SHEET 10 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	77
CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				



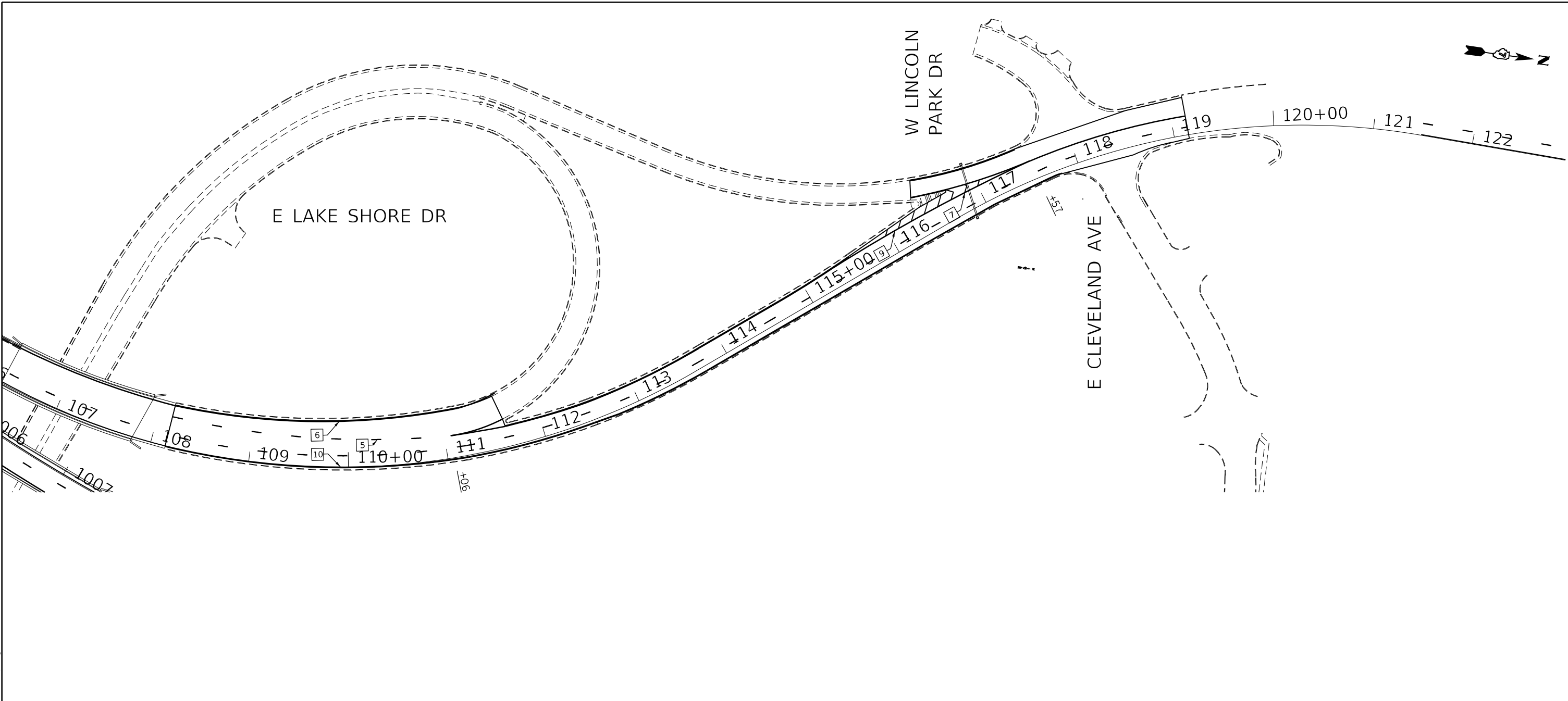
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USER NAME = stefanmk	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 4/8/2022	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

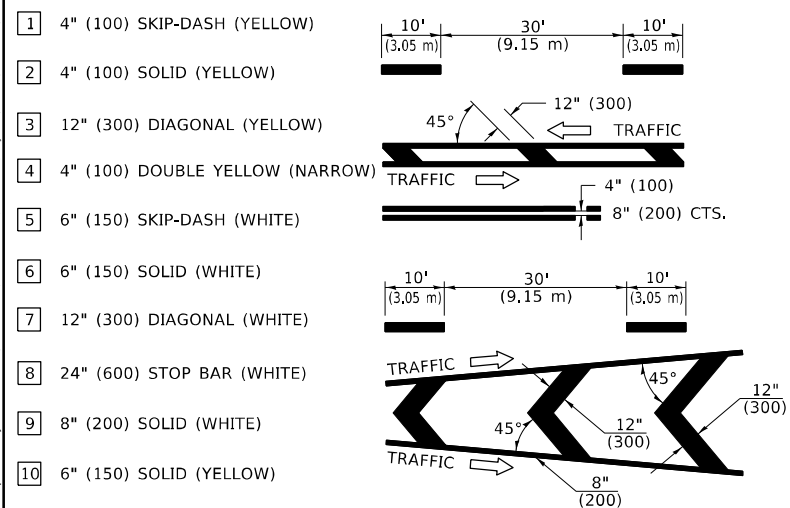
<b>PAVEMENT MARKING DETAILS</b>		
SCALE:	SHEET 11 OF 12 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	78
CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				



**PAVEMENT MARKING LEGEND**

NOT TO SCALE



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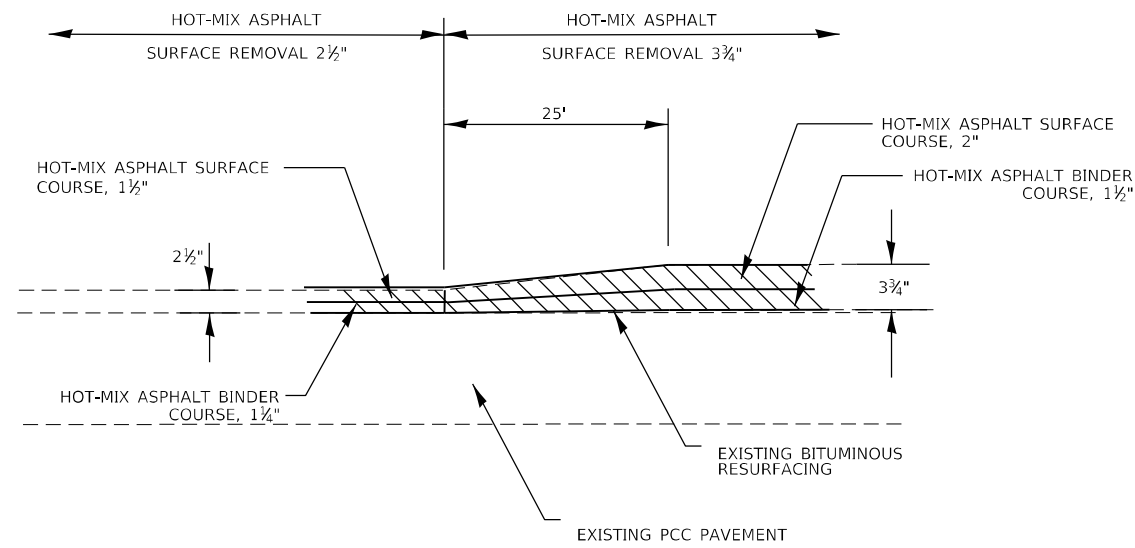
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PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 4/8/2022	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING DETAILS**

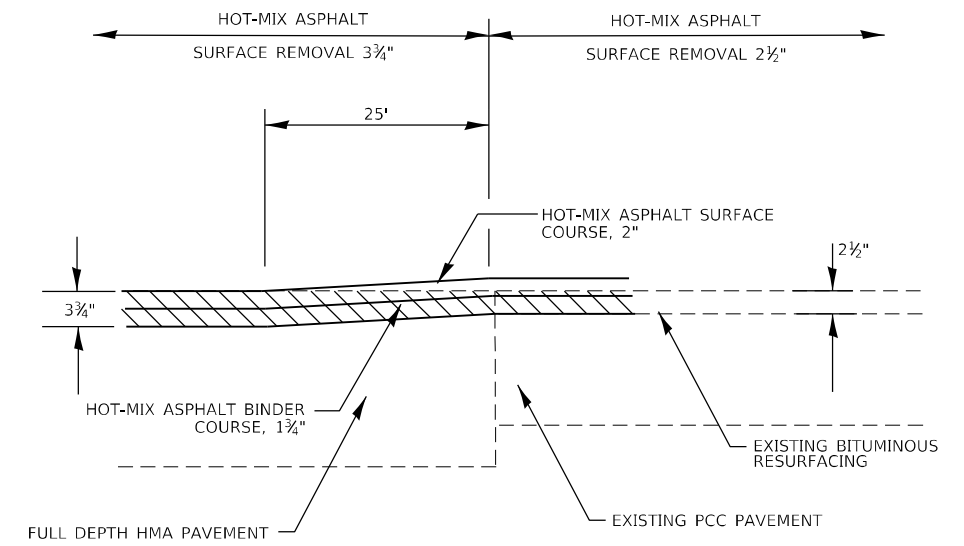
SCALE: SHEET 12 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1, 48X-2)RS-2(128)RS-3	MACON	89	79
CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				



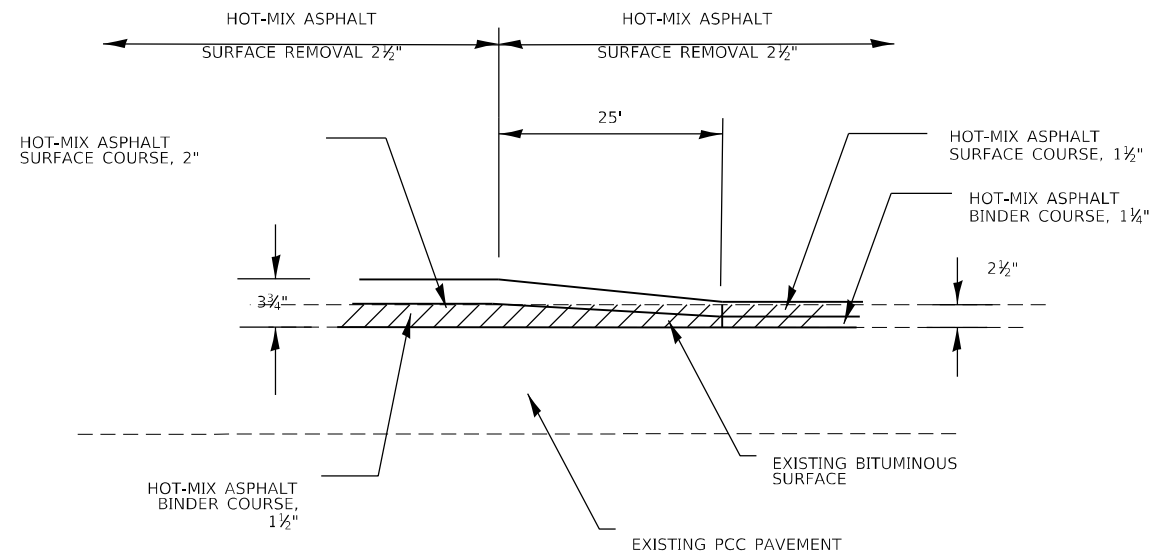
### PAVING DETAIL

NB STA 676+46 TO STA 676+71  
 SB STA 647+02 TO STA 647+27  
 SB STA 647+83 TO 648+08 (TURN LANE)



### PAVING DETAIL

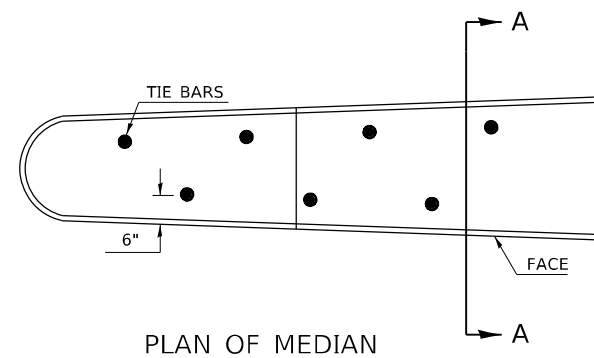
STA 508+45 TO STA 508+70



### PAVING DETAIL

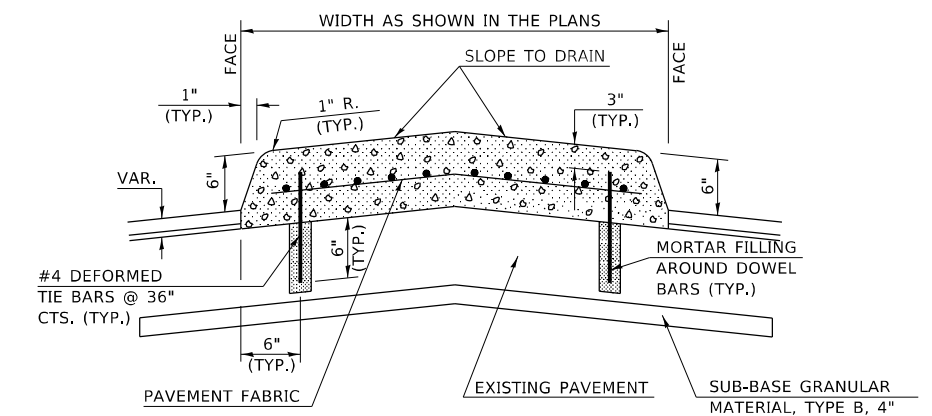
STA 626+68 TO STA 626+93

### DETAIL OF CONCRETE MEDIAN, TYPE SB (DOWELLED)



PLAN OF MEDIAN

ALL DIMENSIONS ARE IN INCHES  
 UNLESS OTHERWISE SHOWN.



SECTION A-A

### GENERAL NOTES

- REPLACE EXISTING IN KIND. SEE SCHEDULE FOR LOCATIONS.
- THE GENERAL NOTES FOR STANDARD 606301 SHALL APPLY.
- DOWEL BARS @ 36" CTS. OR AS DIRECTED BY THE ENGINEER.

MODEL: Default  
 FILE: 444444.ctb  
 PROJECT: 74780\DOT Documents\DOT Office\Drawings\74780\74780-1.dwg  
 USER: steffnmk

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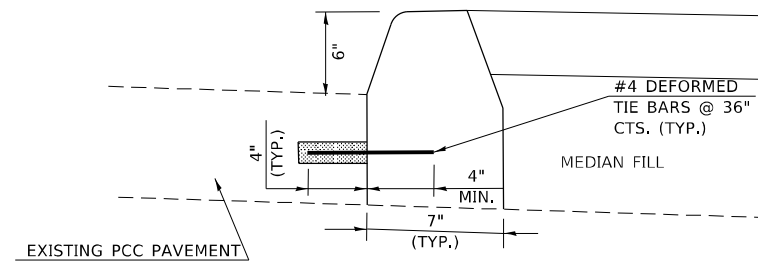
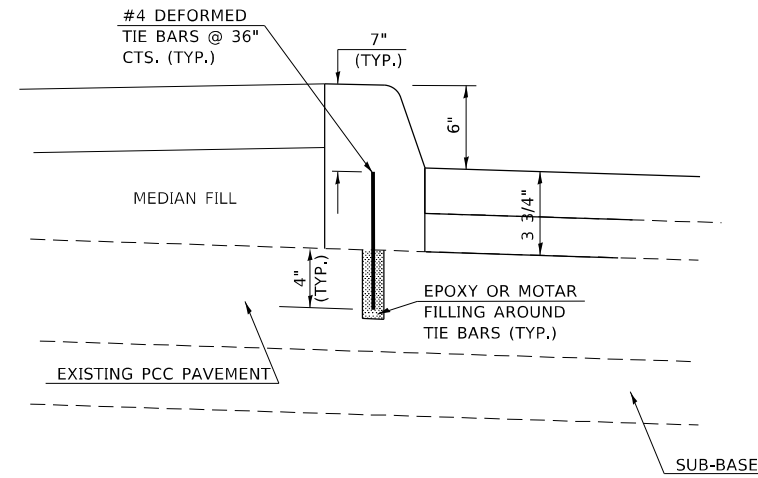
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

SCALE:		SHEET OF SHEETS		STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1,48X-2)RS-2(128)RS-3	MACON	89	80
CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				



# DETAIL OF CONCRETE CURB, TYPE B (SPECIAL)



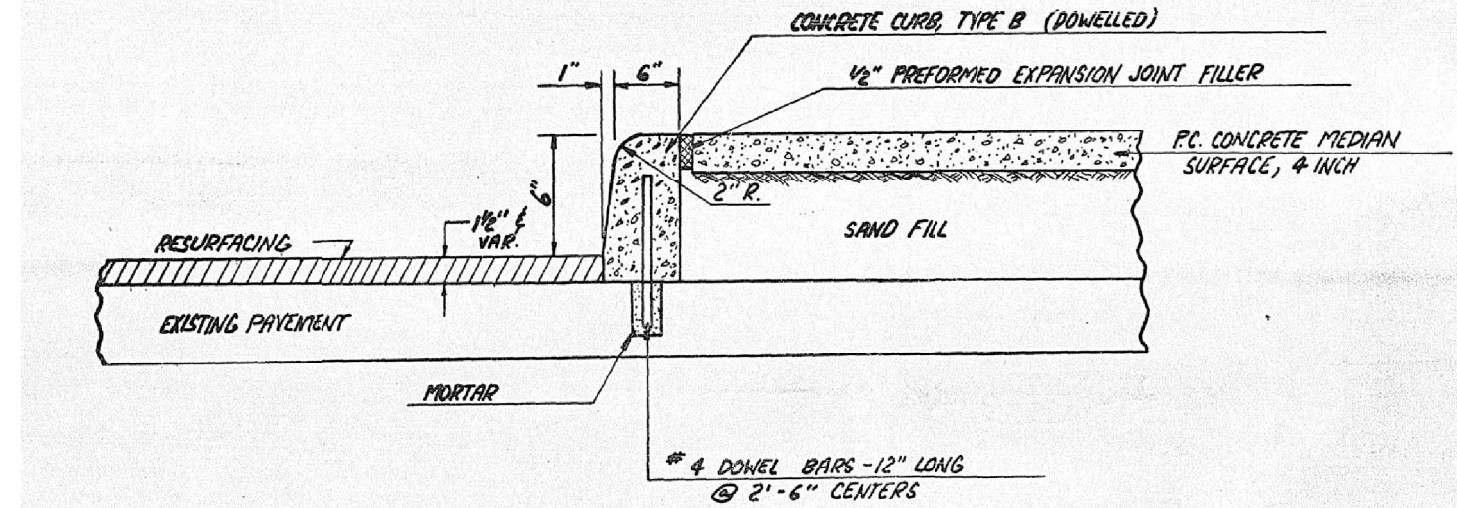
## GENERAL NOTES

SEE SCHEDULE FOR LOCATIONS.

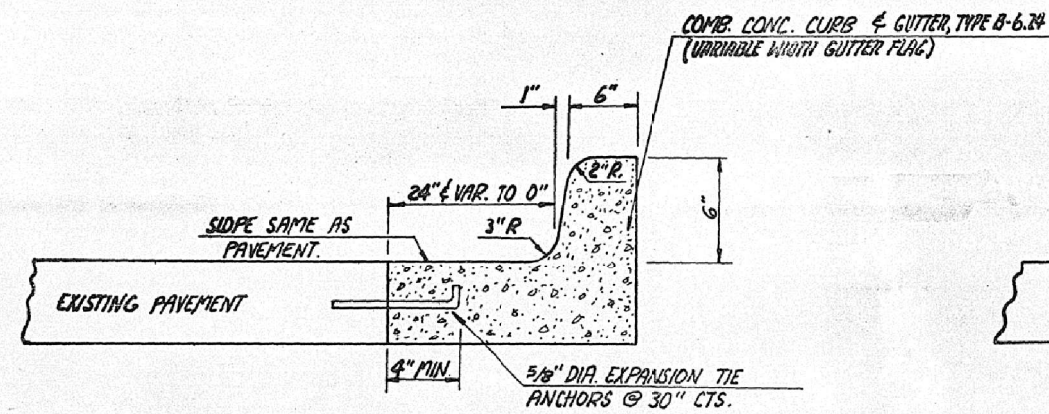
REPLACE EXISTING IN KIND.

SEE STANDARD 606001 FOR DIMENSIONS.

TIE BARS @ 36" CTS. OR AS DIRECTED BY THE ENGINEER.

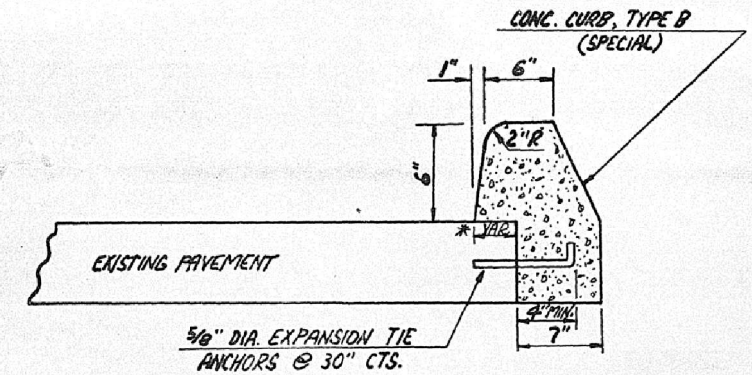


**DETAIL OF CONCRETE CURB  
TYPE B (DOWELLED)**



**COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24  
(VARIABLE WIDTH GUTTER FLAG)**

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER LINEAL FOOT FOR COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (VARIABLE WIDTH GUTTER FLAG). THE TIE ANCHORS WILL BE PAID FOR SEPARATELY. (SEE SPECIAL PROVISIONS).



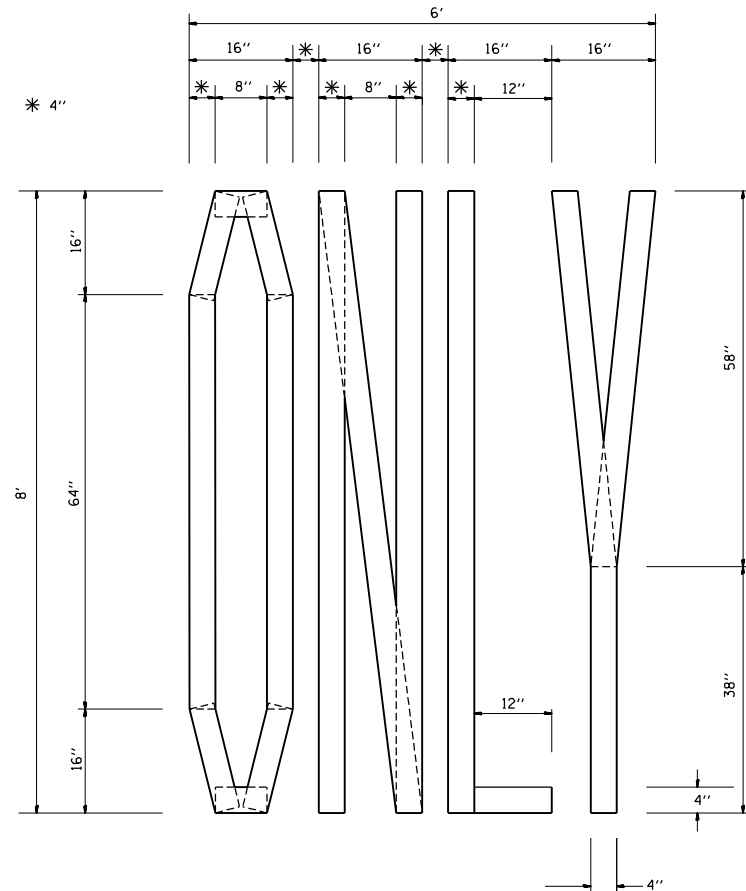
**CONCRETE CURB, TYPE B (SPECIAL)**

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER LINEAL FOOT FOR CONCRETE CURB, TYPE B (SPECIAL). THE TIE ANCHORS WILL BE PAID FOR SEPARATELY; SEE SPECIAL PROVISIONS. \* THIS CURB IS TO BE BUILT WHEN THE VARIABLE DIMENSION SHOWN ABOVE IS GREATER THAN 0" AND LESS THAN 7".

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

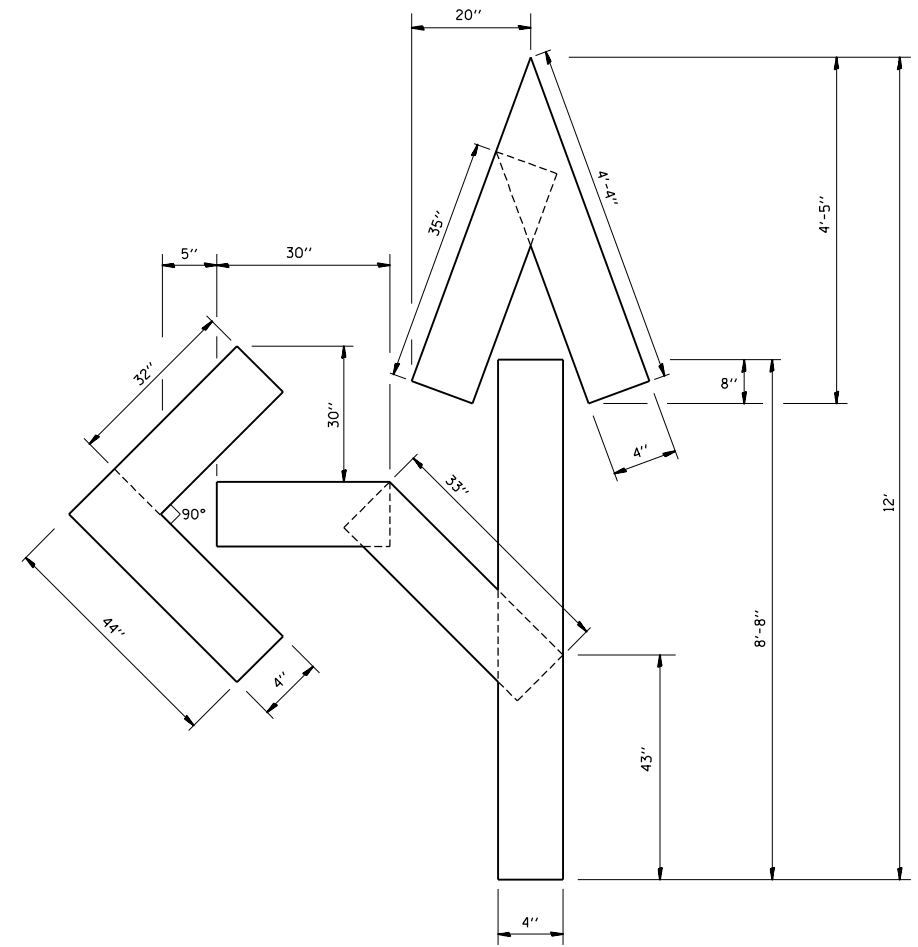
EXISTING DETAILS  
FOR INFORMATION ONLY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1,48X-2)RS-2(128)RS-3	MACON	89	81
CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				

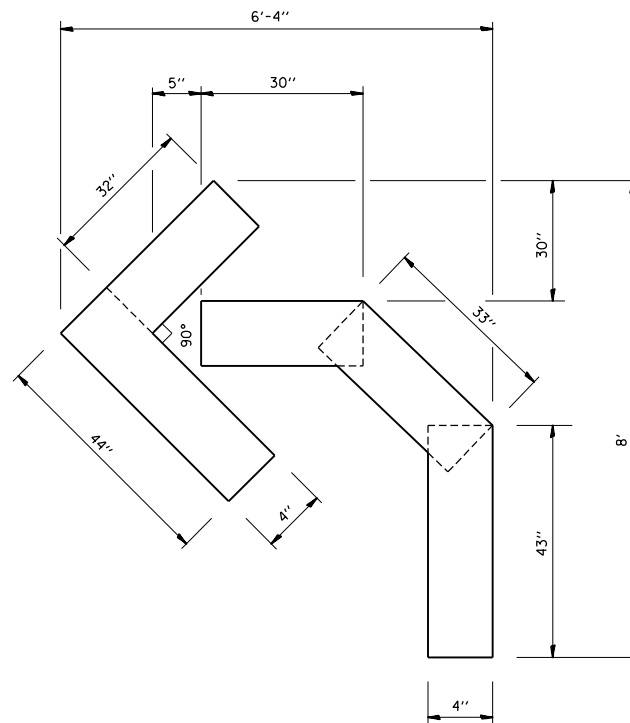


QUANTITY  
4" LINE = 63.2 ft.  
21.0 sq. ft.

SHORT TERM STOP BAR



QUANTITY  
4" LINE = 27.5 ft.  
9.2 sq. ft.



QUANTITY  
4" LINE = 15.2 ft.  
5.0 sq. ft.

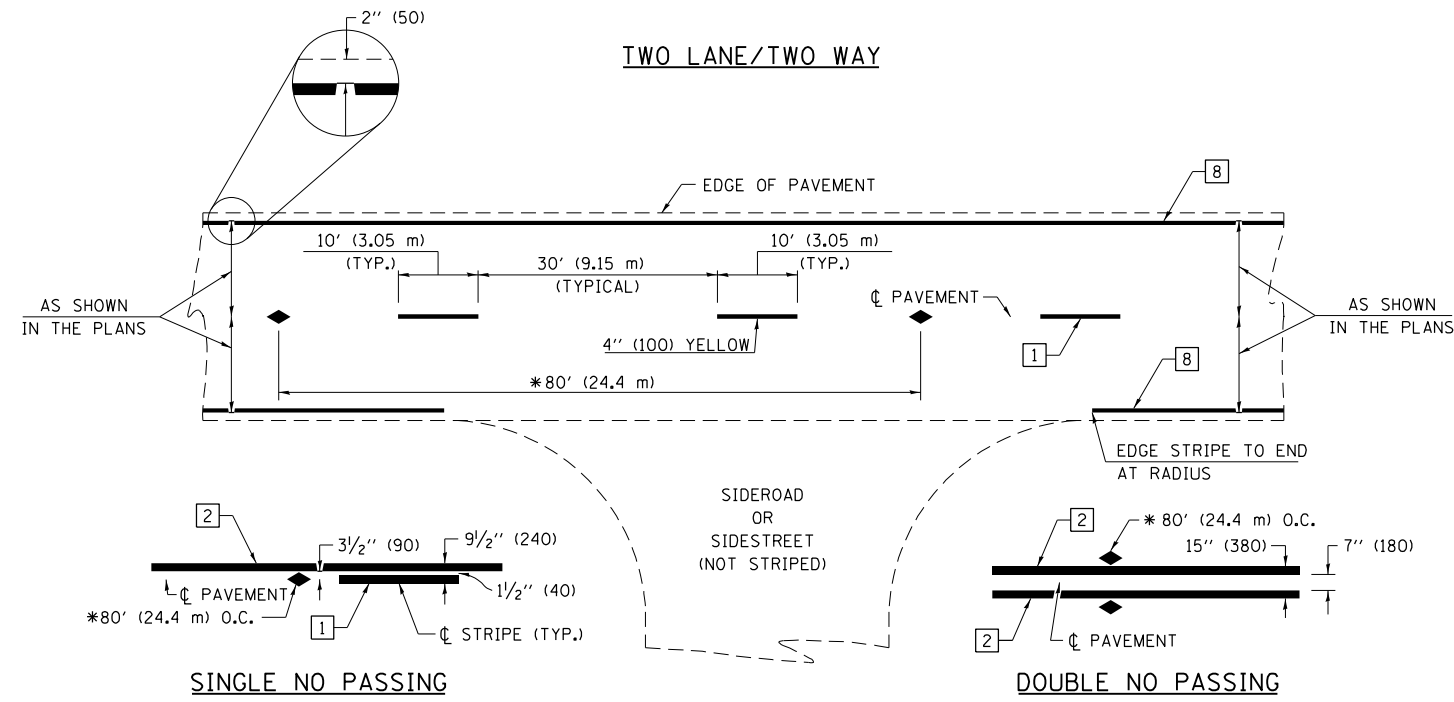
FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -T. RAMMACHER 06-05-96
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		PLOT SCALE = 40.0000' / in.	REVISED -T. RAMMACHER 03-02-98
		PLOT DATE = 4/8/2022	REVISED -E. GOMEZ 08-28-00

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DETAIL OF SHORT-TERM  
PAVEMENT MARKING

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

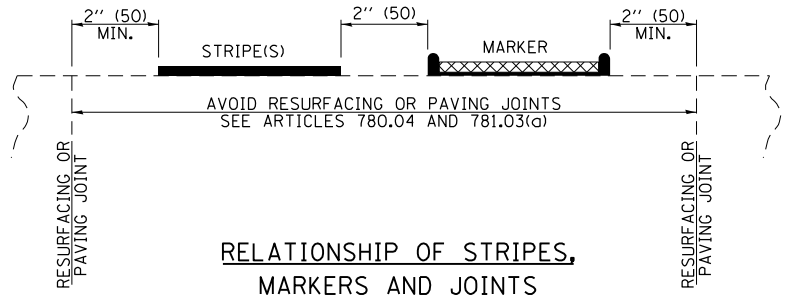
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1,48X-2)RS-2(128)RS-3	MACON	89	82
TC-16			CONTRACT NO. 74780	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**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 RESERVED
- 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

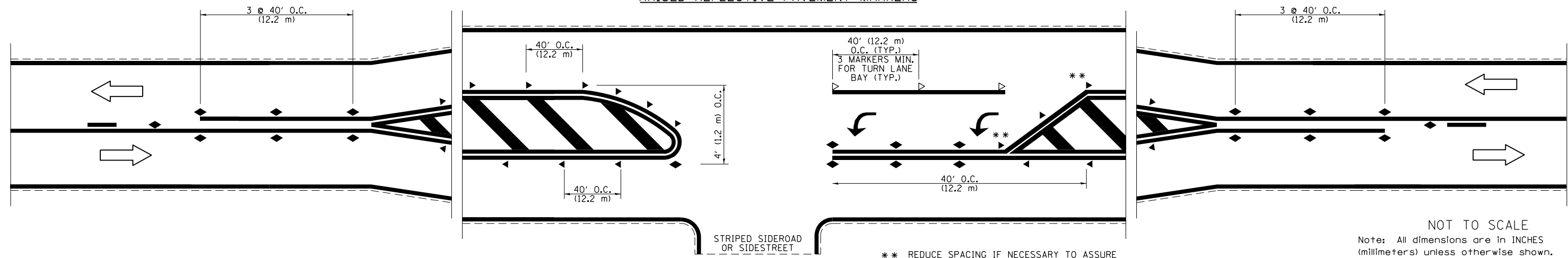
\* REDUCE TO 40' (12.2 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEEDS OF 45 mph (70 km/h) OR LESS.



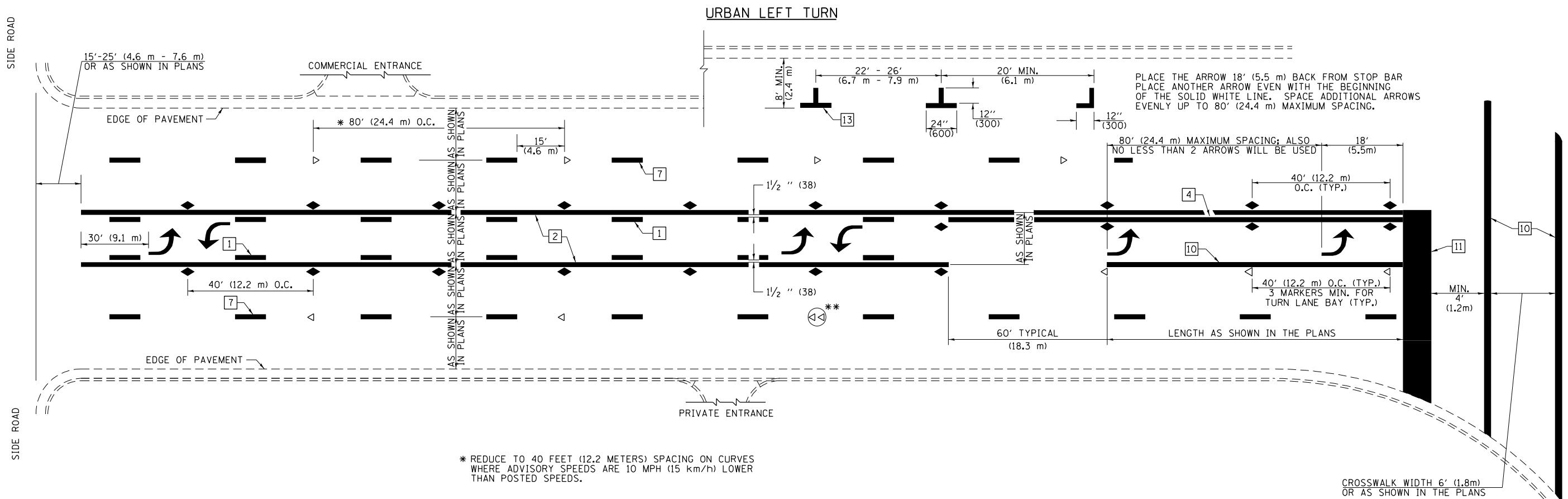
**TYPICAL PAVEMENT MARKERS LEGEND**

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

**RAISED REFLECTIVE PAVEMENT MARKERS**



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



PLACE THE ARROW 18' (5.5 m) BACK FROM STOP BAR  
 PLACE ANOTHER ARROW EVEN WITH THE BEGINNING  
 OF THE SOLID WHITE LINE. SPACE ADDITIONAL ARROWS  
 EVENLY UP TO 80' (24.4 m) MAXIMUM SPACING.

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

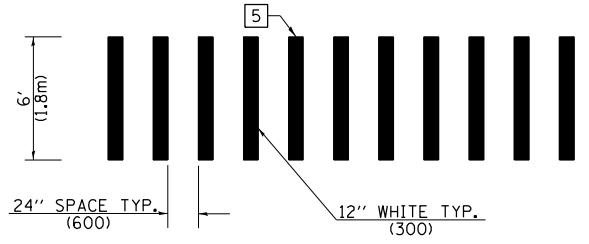
\*\* DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED  
 AND SPACED AS SHOWN IN HIGHWAY STANDARD  
 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED  
 HIGHWAYS.

**PAVEMENT MARKING LEGEND**

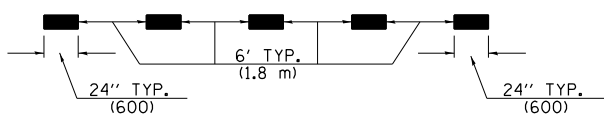
- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 12" (300) SOLID WHITE
- 6 RESERVED
- 7 6" (150) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP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

**GENERAL NOTES**

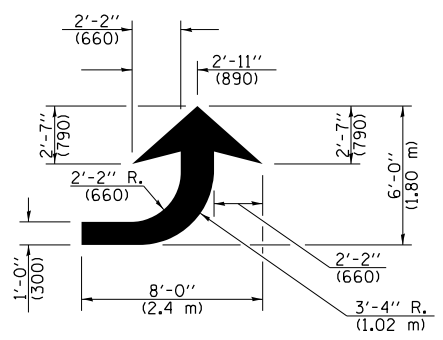
1. TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE. USE A MINIMUM OF TWO PAIRS PER BLOCK.
2. THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT 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 LAST PAGE OF SECTION 780x 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)**

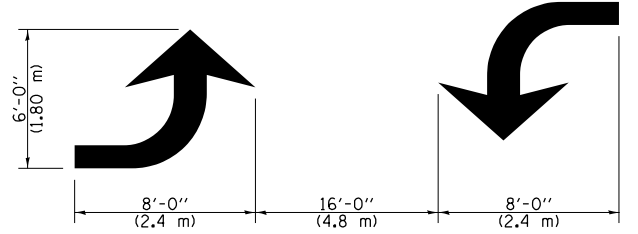


**LANE LINE EXTENSIONS**



**LEFT ARROW**

REVERSE FOR RIGHT ARROW  
 AREA = 15.6 SQ. FT. (1.47 m<sup>2</sup>)  
 (WHITE)



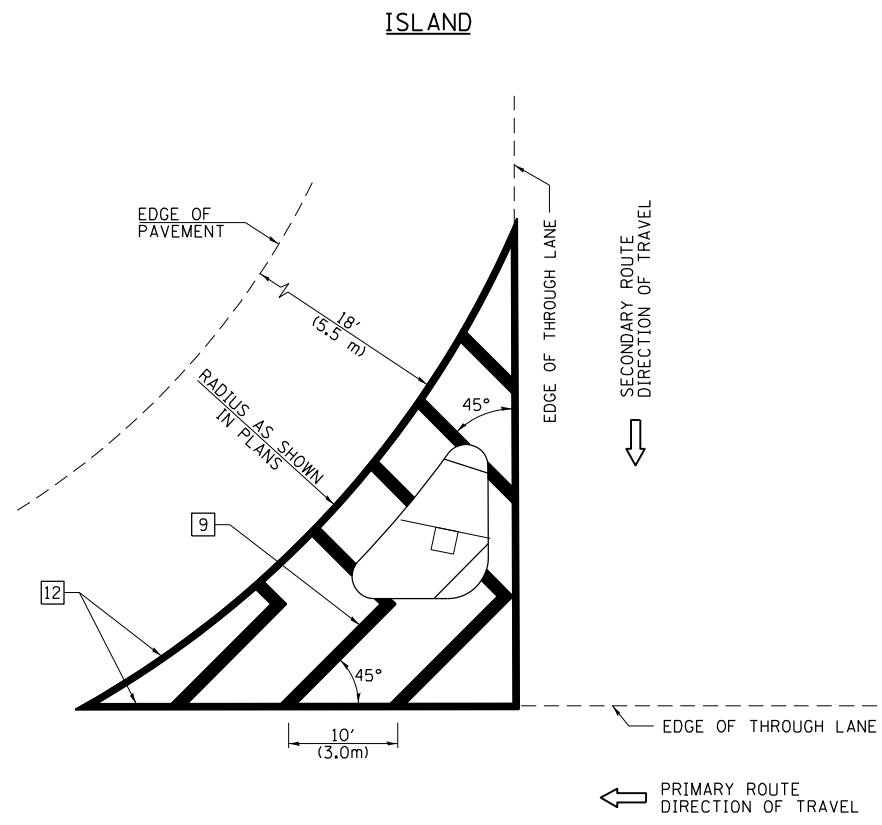
**TYPICAL DOUBLE  
 TURN ARROWS (WHITE)**

NOT TO SCALE

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

**DISTRICT 7 DETAIL NO. 78000001**

FILE NAME =	USER NAME = steffenk	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL &amp; URBAN APPLICATIONS)</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\idot-pw\bentley.com\PWIDOT\Documents\IDOT Offices\District 7\Projects\74780\CADD\Drawings\74780-shd-details.dgn		CHECKED -	REVISED -				710	(48X-1,48X-2)RS-2(128)RS-3	MACON	89	84
PLOT SCALE = 40.0000' / in.		DATE -	REVISED -				CONTRACT NO. 74780				
PLOT DATE = 4/8/2022							ILLINOIS FED. AID PROJECT				

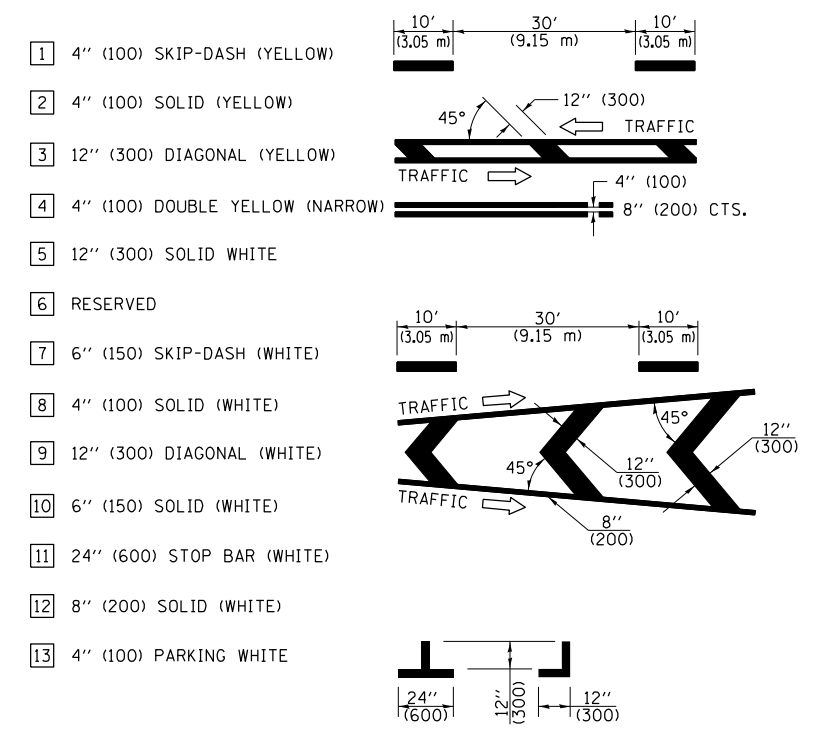


**GENERAL NOTES**

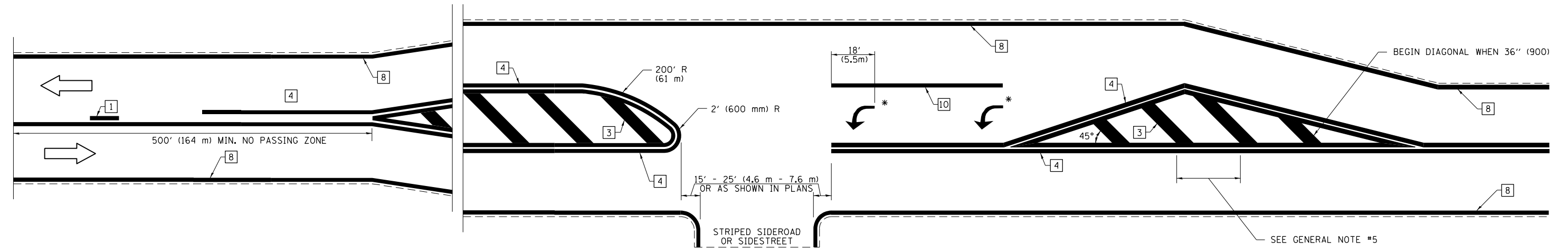
1. RAISED AND CORRUGATED MEDIANS SHALL BE OUTLINED WITH [2] IF PRESENT.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING 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)

**PAVEMENT MARKING LEGEND**



**RURAL LEFT TURN STRIPING**



\* PLACE AN ARROW 18' (5.5 m) BACK FROM STOP BAR. 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**

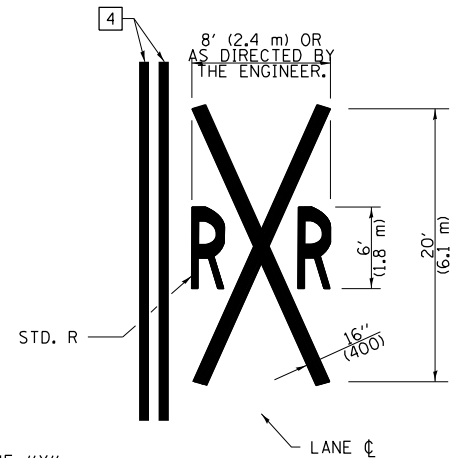
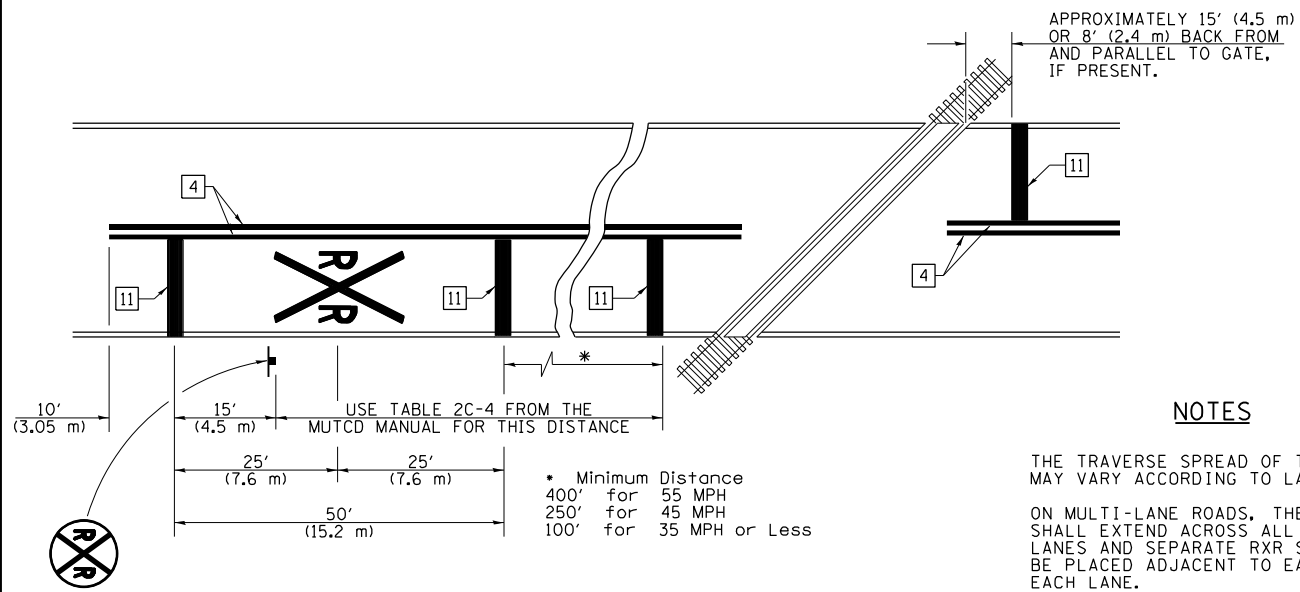
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		DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL &amp; URBAN APPLICATIONS)</b>			
SCALE:	SHEET NO. 3 OF 4 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1,48X-2)RS-2(128)RS-3	MACON	89	85
CONTRACT NO. 74780				
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING



NOTES

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

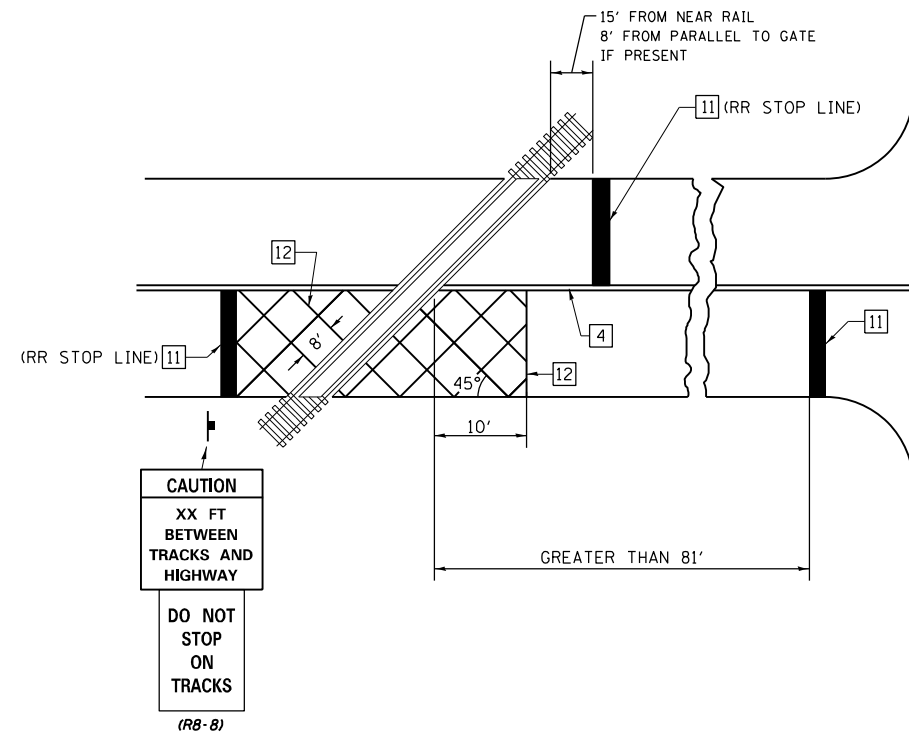
ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RXR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

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.

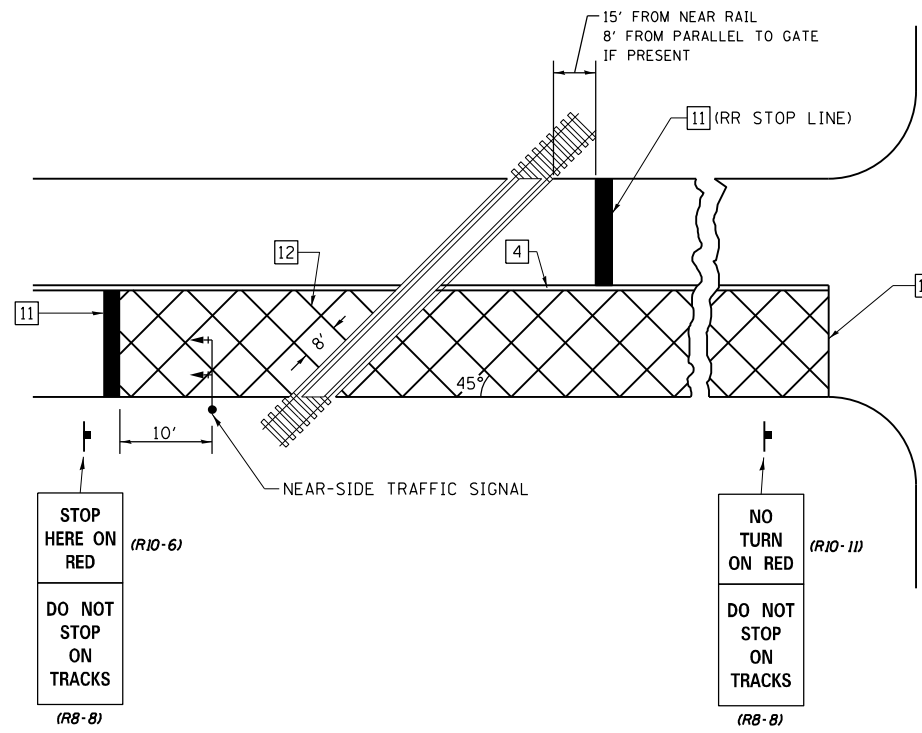
PAVEMENT MARKING LEGEND

- 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 RESERVED
  - 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
- 

RAILROAD CROSSING WITH INTERCONNECT ONLY



RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



GENERAL NOTES

1. SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
2. EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.

SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

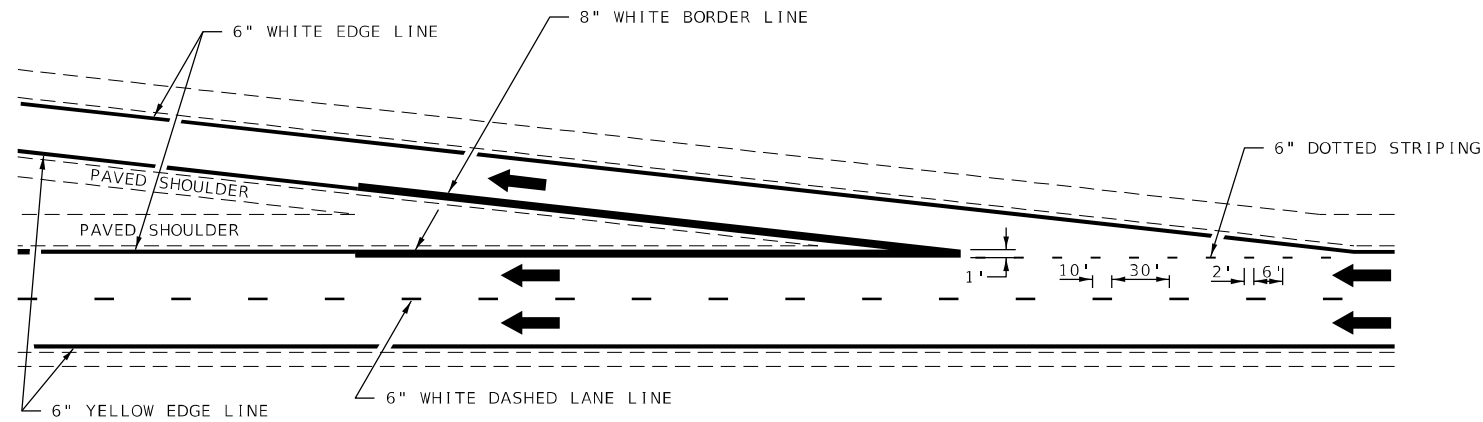
NOT TO SCALE

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

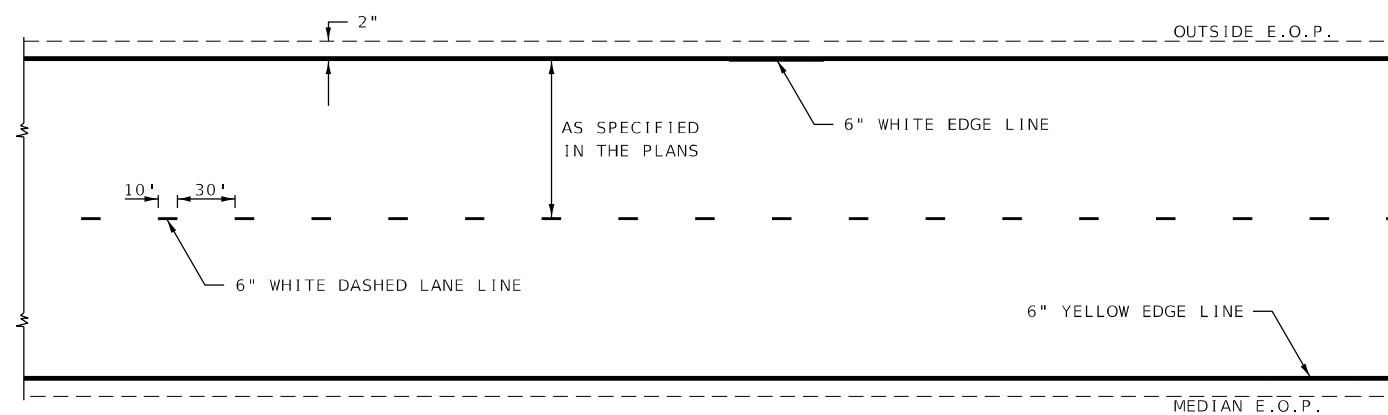
DISTRICT 7 DETAIL NO. 7800001

FILE NAME =	USER NAME = steffenk	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL &amp; URBAN APPLICATIONS)</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\1\1dot-pw.bentley.com\PWIDOT\Documents\DOT Offices\District 7\Projects\74780\CADD\Drawings\Sheets\74780-sht-details.dgn		CHECKED -	REVISED -			710	(48X-1,48X-2)RS-2(128)RS-3	MACON	89	86
PLOT SCALE = 40.0000' / in.		DATE -	REVISED -			CONTRACT NO. 74780				
PLOT DATE = 4/8/2022						ILLINOIS FED. AID PROJECT				

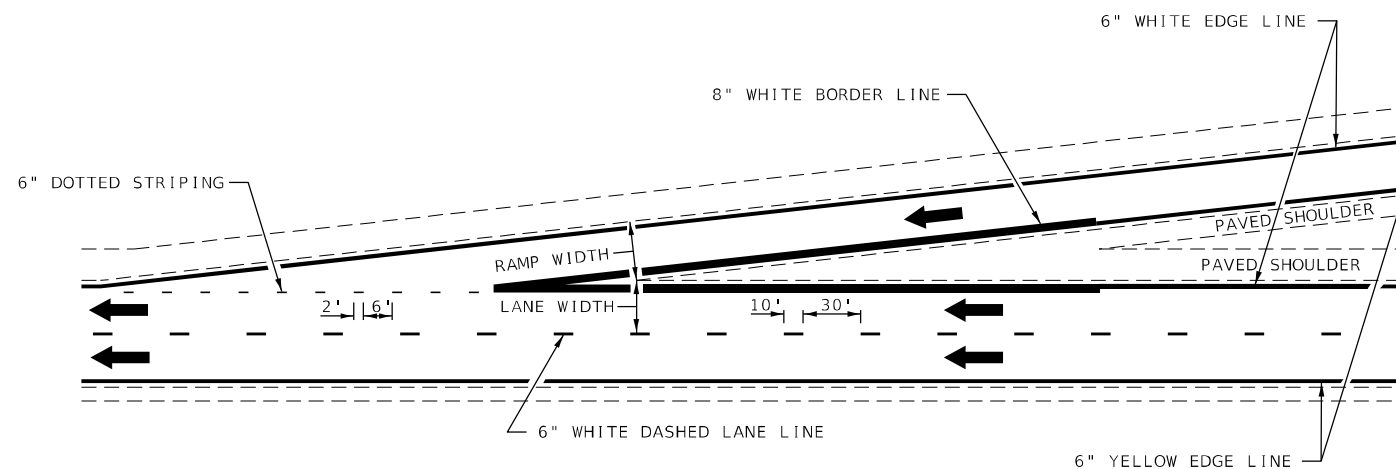
SCALE: SHEET NO. 4 OF 4 SHEETS STA. TO STA.



TYPICAL EXIT RAMP MARKING



TYPICAL CENTERLINE & EDGELINE MARKINGS



TYPICAL ENTRANCE RAMP MARKING

NOT TO SCALE

DISTRICT 7 DETAIL NO. 7800002

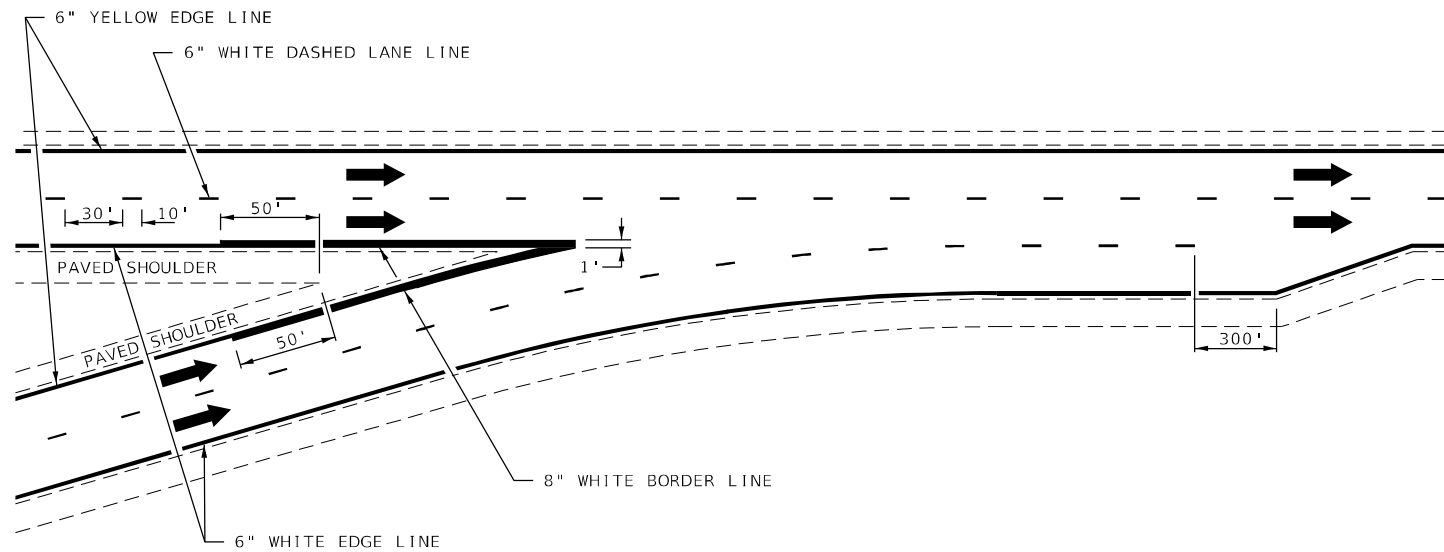
USER NAME = stefenmk	DESIGNED -	REVISED - MKS 04-08
	DRAWN -	REVISED - DRM 01-09
PLOT SCALE = 40,0000 * / in.	CHECKED -	REVISED - DRM 12-10
PLOT DATE = 4/8/2022	DATE -	REVISED - MAD 01-20

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

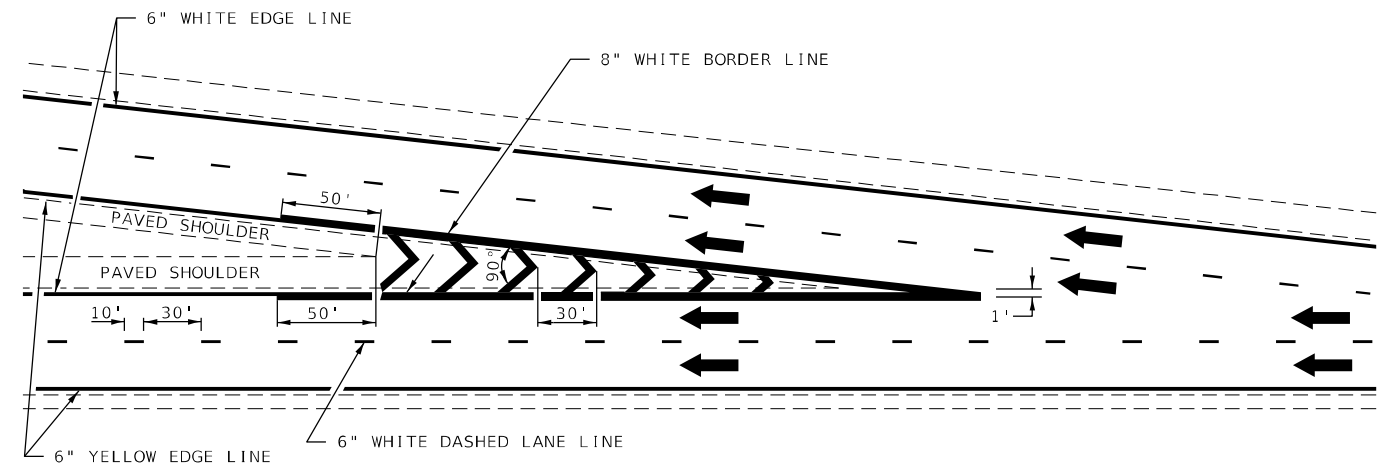
TYPICAL APPLICATIONS OF FREEWAY/EXPRESSWAY  
PAVEMENT MARKING

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			89	87
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

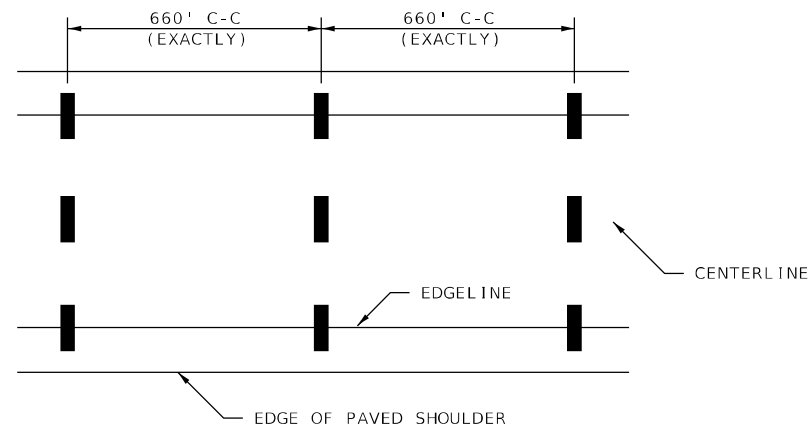


TYPICAL CONVERGENCE MARKING

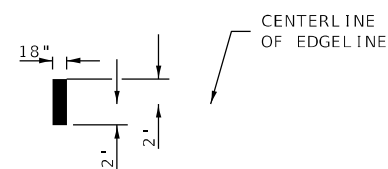


TYPICAL DIVERGENCE MARKING

AERIAL SPEED CHECK ZONES



IT WILL BE NECESSARY TO HAVE A REPRESENTATIVE OF THE STATE POLICE PRESENT SO THAT THE ACCURACY OF MEASUREMENT CAN BE ATTESTED TO IN COURT.



NOT TO SCALE

DISTRICT 7 DETAIL NO. 7800002

USER NAME = steffnmk	DESIGNED -	REVISED - MMO 12-99
	DRAWN -	REVISED - DRM 08-04
PLOT SCALE = 40,0000 * / in.	CHECKED -	REVISED - MKS 04-08
PLOT DATE = 4/8/2022	DATE -	REVISED - DRM 01-09

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

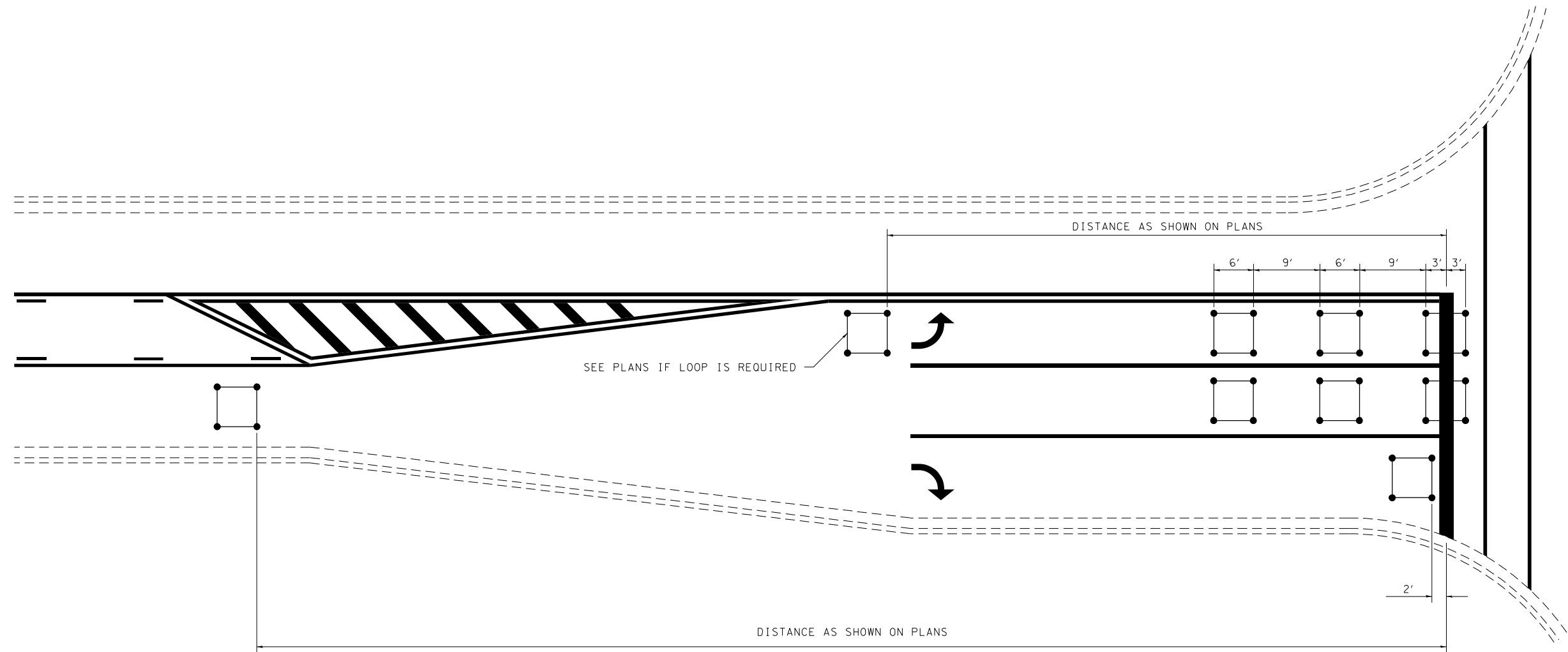
TYPICAL APPLICATIONS OF FREEWAY/EXPRESSWAY  
 PAVEMENT MARKING

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			89	88
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



# TYPICAL APPLICATION OF DETECTOR LOOPS



**NOTE:**

1. EACH LOOP SHALL HAVE ITS OWN HOMERUN TO THE GULFBOX/HANDHOLE.
2. LOOPS SHOULD BE CENTERED IN EACH LANE.
3. USE 6' BY 6' LOOPS FOR LANE WIDTHS OF 11' OR GREATER.
4. USE 5' BY 5' LOOPS IF LANE WIDTH IS LESS THAN 11'.

NOT TO SCALE

**DISTRICT 7 DETAIL NO. 88600100**

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED - MKS 4-08
p:\dot-pw\bentley.com\PWIDOT\Documents\IDOT Offices\District 7\Projects\74780\CADD\Drawings\Drawings\74780-shd-details.dgn		CHECKED -	REVISED -
	PLOT SCALE = 40.0000' / in.	DATE -	REVISED -
	PLOT DATE = 4/8/2022		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL APPLICATIONS OF DETECTOR LOOPS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-1,48X-2)RS-2(128)RS-3	MACON	89	89
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 74780				