

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-2HB-2-1	ST. CLAIR	54	1
		ILLINOIS	CONTRACT NO. 76B21	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

**PROPOSED
HIGHWAY PLANS**

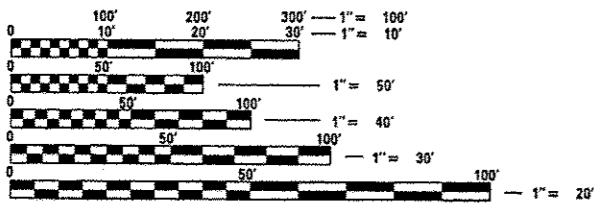
FAI ROUTE 255 (I-255)
SECTION 82-2HB-2-1
PROJECT NHPP-0255(005)
JOINT REPAIR AND HMA OVERLAY
AND WATERPROOFING MEMBRANE
ST. CLAIR COUNTY

C-98-100-07



PROJECT LOCATION
STA. 1051 + 31.83
LATITUDE: 38.618475
LONGITUDE: 90.068497

ALLEN HENDERSON & ASSOCIATES, INC.

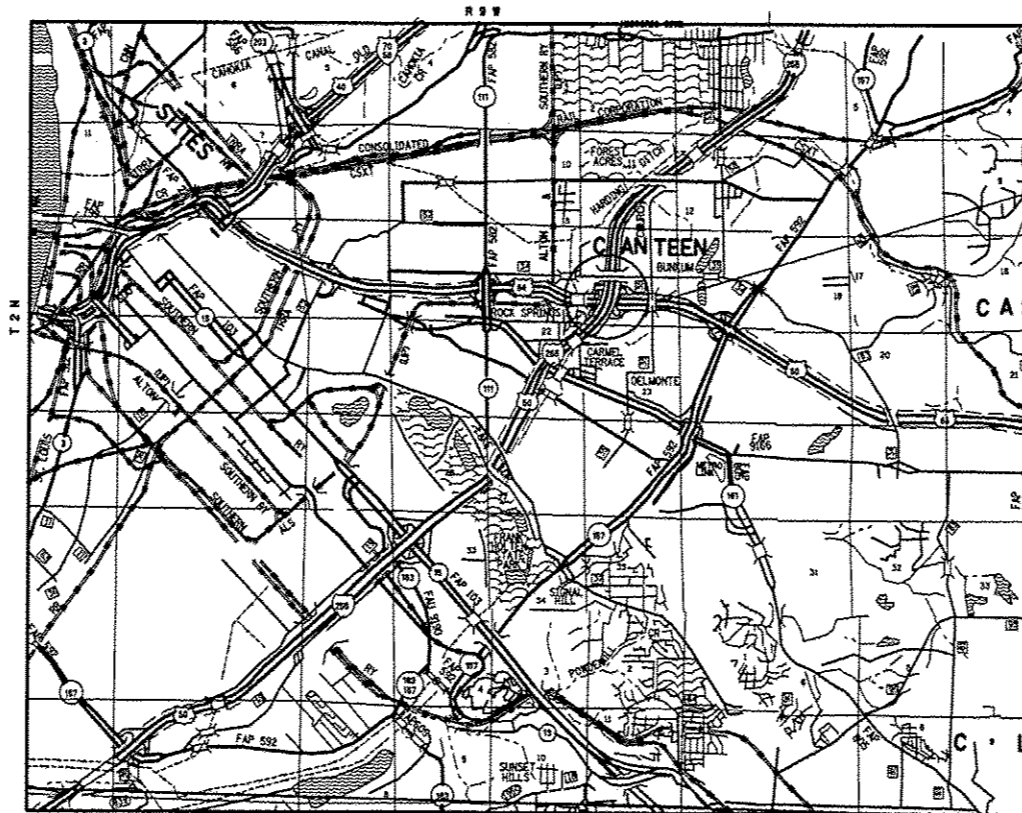


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: PATTI LEBEAU (618) 346-3129
PROJECT MANAGER: BILLIE OWEN (618) 346-3186

CONTRACT NO. 76B21



0 MI 1 MI 2 MI 3 MI
1" = 1 MILE
GROSS LENGTH = 369.93 FT. = 0.07 MILE
NET LENGTH = 369.93 FT. = 0.07 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED December 19 20 12
[Signature]
DEPUTY DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER

March 22 20 13
John D. Baranzelli, PE, Ia
acting ENGINEER OF DESIGN AND ENVIRONMENT

March 22 20 13
Oran Osburn, PE, Ia
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX OF SHEETS/HGHY STAND./GEN. NOTES/MIX CHART/COMMITMENTS
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- 14 WIDE LOAD SIGNING PLAN
- 15-32 SUGGESTED STAGES OF CONSTRUCTION & TRAFFIC CONTROL
- 33-54 STRUCTURE PLANS PLAN SHEETS

HIGHWAY STANDARDS

000001-06	635011-02	701311-03
001001-02	642001-02	704001-07
001006	701400-06	780001-03
630001-10	701402-09	7810001-03
631031-11	701411-08	
635006-03	701901-02	

COMMITMENTS

NONE

GENERAL NOTES

- THE STANDARDS AND REVISION NUMBERS STATED IN THE PLANS SHALL APPLY TO THIS CONTRACT.
 - THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND THE ORDERING OF MATERIALS.
 - ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:
 - MEDIACOM
 - VILLAGE OF CASEYVILLE
 - CENTERPOINT ENERGY
 - CHARTER COMMUNICATIONS, INC.
 - AT&T ILLINOIS
 - ILLINOIS AMERICAN WATER COMPANY
- MEMBERS OF J.U.L.I.E. (800) 892-0123 ARE INDICATED BY AN *. NON- J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEEDING, FERTILIZING, AND MULCHING ANY AREAS DISTURBED BY CONSTRUCTION OPERATIONS. THIS WORK WILL NOT BE MEASURED FOR PAYMENT BUT SHALL BE CONSIDERED AS INCLUDED IN THE COST OF THE CONTRACT. THE SEEDING SHALL BE CLASS 1 AND THE APPLICATION OF THE SEEDING, FERTILIZER AND MULCH SHALL BE TO THE SATISFACTION OF THE ENGINEER. FINAL SEEDING SHALL BE PERFORMED AS SOON AS POSSIBLE. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR THIS WORK.
 - "ROAD CONSTRUCTION AHEAD" AND "WORK ZONE SPEED LIMIT" SIGNS SHALL BE INSTALLED AS DIRECTED BY THE RESIDENT ENGINEER ON THE RAMPS LOCATED WITHIN THE LIMITS OF THE PROJECT. THIS WILL BE INCLUDED IN THE TRAFFIC CONTROL PAY ITEMS. ALL CONSTRUCTION SIGNS SHALL BE FLUORESCENT ORANGE.
 - NO TRENCHES OR OPEN PITS WILL BE PERMITTED ADJACENT TO A TRAFFIC LANE DURING NONE WORKING HOURS. ALL WIDENING TRENCHES SHALL BE BACK FILLED DURING THE SAME WORKING DAY IT WAS EXCAVATED.
 - ALL TEMPORARY PAVEMENT MARKING SHALL BE PLACED IN SUCH A MANNER AS NOT TO INTERFERE WITH THE PLACEMENT OF PERMANENT PAVEMENT MARKING.
 - EXCAVATIONS ADJACENT TO THE EDGE OF PAVEMENT SHALL BE PROTECTED WITH EXTENDED LEG BARRICADES AND APPROPRIATE FLASHING OR STEADY BURNING LIGHTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
 - THE THICKNESS OF THE BITUMINOUS MIXTURE SHOWN ON THE PLANS IS A NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO THE IRREGULARITY IN THE BASE ON WHICH THE MIXTURE IS PLACED.
 - THE BOTTOM 6" OF THE TEMPORARY CONCRETE BARRIER SHALL BE PAINTED WITH TEMPORARY PAVEMENT MARKING CONSISTENT WITH TRAFFIC CONTROL. THIS WILL NOT BE MEASURED FOR PAYMENT BUT SHALL BE CONSIDERED AS INCLUDED IN THE COST OF TEMPORARY CONCRETE BARRIER AND NO OTHER COMPENSATION SHALL BE ALLOWED.
 - PAVEMENT MARKING REMOVAL SHALL BE BY GRINDING OR HEAT REMOVAL SO AS NOT TO DESTROY OR MODIFY THE EXISTING GROOVE.
 - TWO LANE TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES.
 - THE CONTRACTOR SHALL APPLY MANUFACTURER'S APPROVED ADHESIVE TO GROOVE PRIOR TO PLACING PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - 6".
 - THE 2" HMA WEARING SURFACE AND WATERPROOFING MEMBRANE SHALL CONSIST OF 1 1/2" HMA SURFACE COURSE, MIX "E", N90 AND THE 1/2" WATERPROOFING MEMBRANE.
 - EARTH EXCAVATION FOR THIS PROJECT IS MINIMAL AND SHALL BE INCLUDED IN THE COST OF THE CONTRACT.

MIXTURE REQUIREMENT CHART

MIXTURE USE	POLY SURFACE	BASE COURSE
AC/PG	SBS PG 76-22	PG 64-22
RAP % (MAX)	SEE SPEC	SEE SPEC
DESIGN AIR VOIDS	4.0% @ Ndes=90	4.0% @ Ndes=90
MIX COMPOSITION		
(GRADATION MIXTURE)		IL 19.0
FRICTION AGG	MIXTURE "E"	MIXTURE "B"

FILE NAME *	USER NAME * oventj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, GENERAL NOTES, STANDARDS, ETC.	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwork\pwork\oventj\d0100460\d0760	1-sht-plan.dgn	DRAWN -	REVISED -			255	82-2HB-2-1	ST. CLAIR	54	2	
	PLOT SCALE * 100.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 76B21					
	PLOT DATE * 12/14/2012	DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

ILLINOIS DEPARTMENT OF TRANSPORTATION			TOTAL QUANTITIES		
CODE NO	ITEM	UNIT		URBAN	
				SN 082-0241	
				SN 082-0242	
				0014	
				10% STATE 90% FEDERAL	
28100105	STONE RIPRAP, CLASS A3	SQ YD	95	95	
28200200	FILTER FABRIC	SQ YD	95	95	
35501328	HOT-MIX ASPHALT BASE COURSE, 11"	SQ YD	9688	9688	
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	1172	1172	
40600990	TEMPORARY RAMP	SQ YD	147	147	
40603570	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N90	TON	1045	1045	
44004250	PAVED SHOULDER REMOVAL	SQ YD	9688	9688	
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	345	345	
50102400	CONCRETE REMOVAL	CU YD	195.4	195.4	
50157300	PROTECTIVE SHIELD	SQ YD	6830	6830	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	208	208	
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	20810	20810	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	58050	58050	

FILE NAME =	USER NAME = owanbj	DESIGNED -	REVISED -
cf:\pwwork\prido\h\owanj\20108468\070621-shr\plen.dgn		DRAWN -	REVISED -
	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -
	PLOT DATE = 12/14/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-2HB-2-I	ST. CLAIR	54	3
				CONTRACT NO. 76B21
ILLINOIS FED. AID PROJECT				

ILLINOIS DEPARTMENT OF TRANSPORTATION			TOTAL QUANTITIES		
CODE NO	ITEM	UNIT		URBAN	
			SN 082-0241		
			SN 082-0242		
			0014		
			10% STATE		
			90% FEDERAL		
50800515	BAR SPLICERS	EACH	112	112	
52000110	PREFORMED JOINT STRIP SEAL	FOOT	477	477	
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	8452	8452	
58700300	CONCRETE SEALER	SQ FT	1186	1186	
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	325	325	
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	
* 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	576	576	
64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	11341	11341	
64300450	IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3	EACH	4	4	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6	
67100100	MOBILIZATION	L SUM	1	1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	10	10	

***SPECIALTY ITEM**

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
c:\pvc\work\pvidat\ovenbj\d0188468\d076b21-shr-plen.dgn	ovenbj	DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

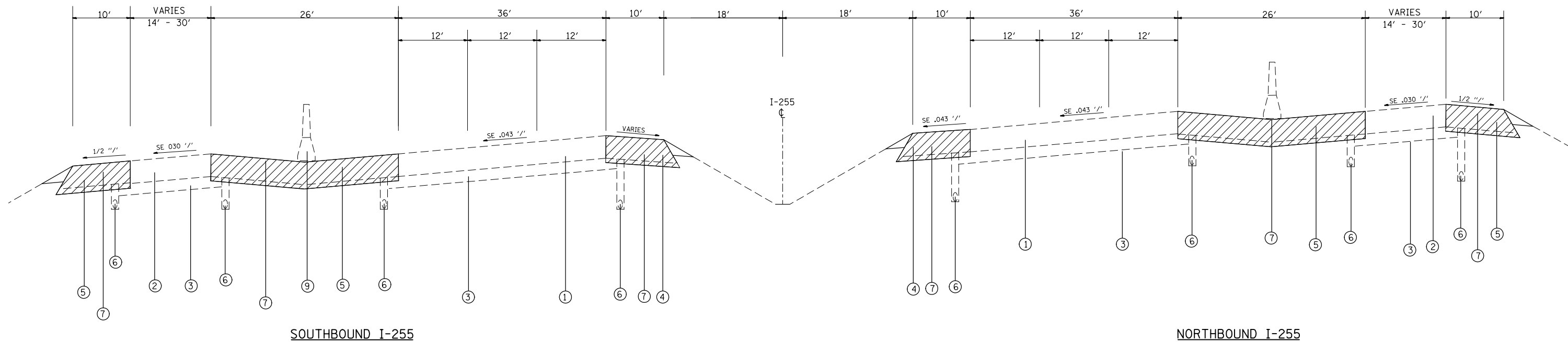
SUMMARY OF QUANTITIES

SCALE:	SHEET NO. 2 OF 4 SHEETS	STA.	TO STA.	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				255	82-2HB-2-1	ST. CLAIR	54	4
							CONTRACT NO. 76B21	
ILLINOIS FED. AID PROJECT								

ILLINOIS DEPARTMENT OF TRANSPORTATION			TOTAL QUANTITIES		
CODE NO	ITEM	UNIT		URBAN	
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	4	4	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	763	763	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	15239	15239	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	254	254	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	2775	2775	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	2775	2775	
* 78003130	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 6"	FOOT	15239	15239	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	166	166	
* 78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	20	20	
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	16	16	
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
80300100	LOCATING UNDERGROUND CABLE	FOOT	700	700	
X0325743	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES), SPECIAL	SQ FT	64	64	

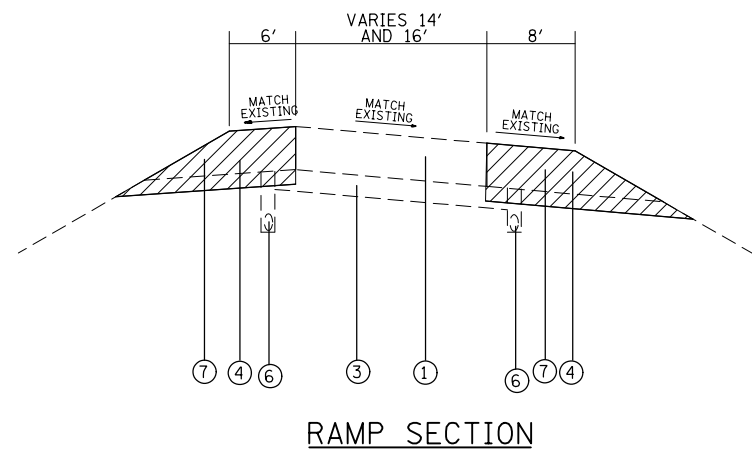
* SPECIALTY ITEM

FILE NAME =	USER NAME = owebj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ci:\pwork\pvidot\owebj\d8188468\d876b21-shr-plan.dgn		DRAWN -	REVISED -		255	82-2HB-2-1	ST. CLAIR	54	5			
PLOT SCALE = 100.0000' / 1"		CHECKED -	REVISED -		SCALE: SHEET NO. 3 OF 4 SHEETS STA. TO STA.			CONTRACT NO. 76B21				
PLOT DATE = 12/14/2012		DATE -	REVISED -		[ILLINOIS] FED. AID PROJECT							

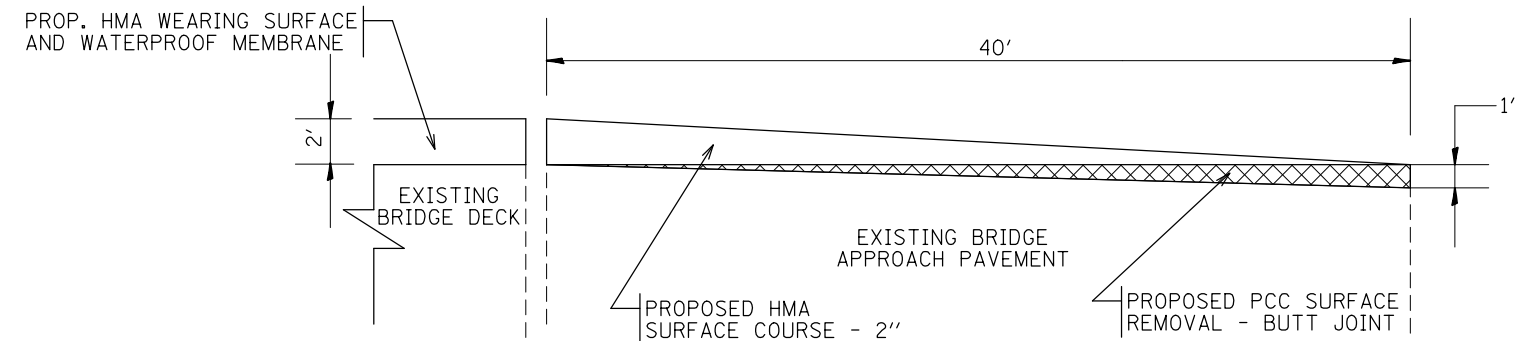


SOUTHBOUND I-255

NORTHBOUND I-255



RAMP SECTION



RESURFACING TRANSITION DETAIL

LEGEND

- ① EXISTING CRPCC PAVEMENT - 10"
- ② EXISTING CRPCC PAVEMENT - 8"
- ③ EXISTING STABILIZED SUBBASE - 4"
- ④ EXISTING HMA SHOULDERS - 10"
- ⑤ EXISTING HMA SHOULDERS - 8"
- ⑥ EXISTING UNDERDRAINS - 4"
- ⑦ PROPOSED HMA BASE COURSE - 11"
- ⑧ EXISTING CONCRETE MEDIAN BARRIER

HMA SHOULDER REMOVAL

FILE NAME =	USER NAME = owerbj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pwork\pwork\owenbj\d0188460\d876621-sht-plan.dgn		DRAWN -	REVISED -		SCALE: NO SCALE	SHEET NO. 1 OF 1 SHEETS	STA. 1043+39 TO STA. 1062+00	255	82-2HB-2-I	ST. CLAIR	54	7
	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -					CONTRACT NO. 76B21				
	PLOT DATE = 12/14/2012	DATE -	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PAVING SCHEDULE

STATIONING				POLYMERIZED HMA SURFACE COURSE MIX "E", N90 TON	HMA BASE COURSE-10" SQ YDS	AGGREGATE WEDGE, SHLDRS. TYPE, B TON	PCC SURFACE REM. - BUTT JOINT SQ YDS	PAVED SHOULDER REMOVAL -8" SQ YDS	PAVED SHOULDER REMOVAL - 10" SQ YDS	COMMENTS		
1044	+	23.00	TO 1048	+	0	498	0	498	0	SB - INSIDE SHLDR (CD LANE)		
1044	+	33.00	TO 1048	+	0	485	0	485	0	SB - INSIDE SHOULDER (THRU LANE)		
1045	+	85.00	TO 1048	+	0	143	17	0	143	0	SB - OUTSIDE SHLDR (CD LANE)	
1044	+	95.00	TO 1048	+	0	339	24	0	339	0	SB -OUTSIDE SHOULDER (THRU LANE)	
1045	+	08.00	TO 1048	+	0	324	23	0	324	0	NB - OUTSIDE SHLDR (THRU LANE)	
1045	+	31.00	TO 1048	+	0	356	0	0	356	0	NB - INSIDE SHOULDER (THRU LANE)	
1045	+	45.50	TO 1048	+	0	337	0	0	337	0	NB - INSIDE SHLDR (CD LANE)	
1042	+	20.00	TO 1047	+	65.50	0	606	42	0	606	0	NB -OUTSIDE SHOULDER (CD LANE)
1047	+	65.50	TO 1048	+	0	12	0	0	12	0	GORE AREA	
14	+	10.00	TO 15	+	58.50	0	66	12	0	66	0	INSIDE SHOULDER - RAMP G
14	+	14.00	TO 15	+	79.50	0	110	13	0	110	0	OUTSIDE SHOULDER - RAMP G
1048	+	00.00	TO 1048	+	98.50	0	130	0	0	130	0	SB - INSIDE SHLDR (CD LANE)
1048	+	00.00	TO 1049	+	11.00	0	147	0	0	147	0	SB - INSIDE SHOULDER (THRU LANE)
1048	+	00.00	TO 1048	+	84.00	0	56	7	0	56	0	SB - OUTSIDE SHLDR (CD LANE)
1048	+	00.00	TO 1049	+	29.00	0	143	10	0	143	0	SB -OUTSIDE SHOULDER (THRU LANE)
1048	+	65.93	TO 1049	+	05.93	11	0	133	0	0	NB -CD LANE	
1048	+	78.57	TO 1049	+	18.57	13	0	160	0	0	NB -THRU LANE	
1049	+	24.85	TO 1049	+	64.85	13	0	160	0	0	SB -THRU LANE	
1049	+	49.75	TO 1049	+	89.75	11	0	133	0	0	SB -CD LANE	
1048	+	00.00	TO 1049	+	58.00	0	176	12	0	176	0	NB - OUTSIDE SHLDR (THRU LANE)
1048	+	00.00	TO 1049	+	74.00	0	230	0	0	230	0	NB - INSIDE SHOULDER (THRU LANE)
1048	+	00.00	TO 1049	+	86.00	0	246	0	0	246	0	NB - INSIDE SHLDR (CD LANE)
1048	+	00.00	TO 1047	+	55.50	0	41	0	0	41	0	GORE AREA
15	+	79.50	TO 17	+	84.50	0	137	16	0	137	0	OUTSIDE RAMP SHOULDER
1052	+	73.75	TO 1054	+	00.00	0	167	0	0	167	0	SB - INSIDE SHLDR (CD LANE)
1052	+	83.00	TO 1054	+	00.00	0	155	0	0	155	0	SB - INSIDE SHOULDER (THRU LANE)
1052	+	59.75	TO 1054	+	00.00	0	94	11	0	94	0	SB - OUTSIDE SHLDR (CD LANE)
1052	+	96.00	TO 1054	+	00.00	0	116	8	0	116	0	SB -OUTSIDE SHOULDER (THRU LANE)
1052	+	70.35	TO 1053	+	10.35	11	0	133	0	0	NB -CD LANE	
1052	+	90.19	TO 1053	+	30.19	13	0	160	0	0	NB -THRU LANE	
1053	+	43.02	TO 1053	+	83.02	13	0	160	0	0	SB -THRU LANE	
1053	+	23.34	TO 1053	+	63.24	11	0	133	0	0	SB -CD LANE	
1053	+	15.00	TO 1054	+	00.00	0	94	7	0	94	0	NB - OUTSIDE SHLDR (THRU LANE)
1053	+	31.00	TO 1054	+	00.00	0	91	0	0	91	0	NB - INSIDE SHOULDER (THRU LANE)
1053	+	36.50	TO 1054	+	00.00	0	84	0	0	84	0	NB - INSIDE SHLDR (CD LANE)
1053	+	51.00	TO 1054	+	00.00	0	54	4	0	54	0	NB -OUTSIDE SHOULDER (CD LANE)
1054	+	00.00	TO 1058	+	14.50	0	548	0	0	548	0	SB - INSIDE SHLDR (CD LANE)
1054	+	00.00	TO 1058	+	02.00	0	532	0	0	532	0	SB - INSIDE SHOULDER (THRU LANE)
1054	+	00.00	TO 1057	+	85.00	0	91	0	0	91	0	GORE AREA
1057	+	85.00	TO 1060	+	00.00	0	239	17	0	239	0	SB - OUTSIDE SHLDR (CD LANE)
1054	+	00.00	TO 1057	+	74.00	0	416	29	0	416	0	SB -OUTSIDE SHOULDER (THRU LANE)
1054	+	00.00	TO 1057	+	28.50	0	365	26	0	365	0	NB - OUTSIDE SHLDR (THRU LANE)
1054	+	00.00	TO 1058	+	55.50	0	602	0	0	602	0	NB - INSIDE SHOULDER (THRU LANE)
1054	+	00.00	TO 1058	+	37.50	0	578	0	0	578	0	NB - INSIDE SHLDR (CD LANE)
1054	+	00.00	TO 1055	+	31.03	0	87	10	0	87	0	NB -OUTSIDE SHOULDER (CD LANE)
1055	+	92.00	TO 1056	+	95.00	0	158	0	0	158	0	GORE AREA
1056	+	95.00	TO 1059	+	08.00	0	237	17	0	237	0	NB OUTSIDE SHOULDER (CD LANE)
1059	+	08.00	TO 1060	+	00.00	0	102	7	0	102	0	NB OUTSIDE SHOULDER (CD LANE)
0	+	00.00	TO 3	+	35.00	0	223	26	0	223	0	OUTSIDE SHOULDER - RAMP F
1	+	64.50	TO 1	+	72.50	0	4	1	0	4	0	INSIDE SHOULDER - RAMP F
1060	+	00.00	TO 1060	+	50.00	0	56	4	0	56	0	SB - OUTSIDE SHLDR (CD LANE)
1060	+	00.00	TO 1060	+	20.00	0	13	2	0	13	0	NB -OUTSIDE SHOULDER (CD LANE)
TOTAL					96	9688	345	1172	7662	2026		

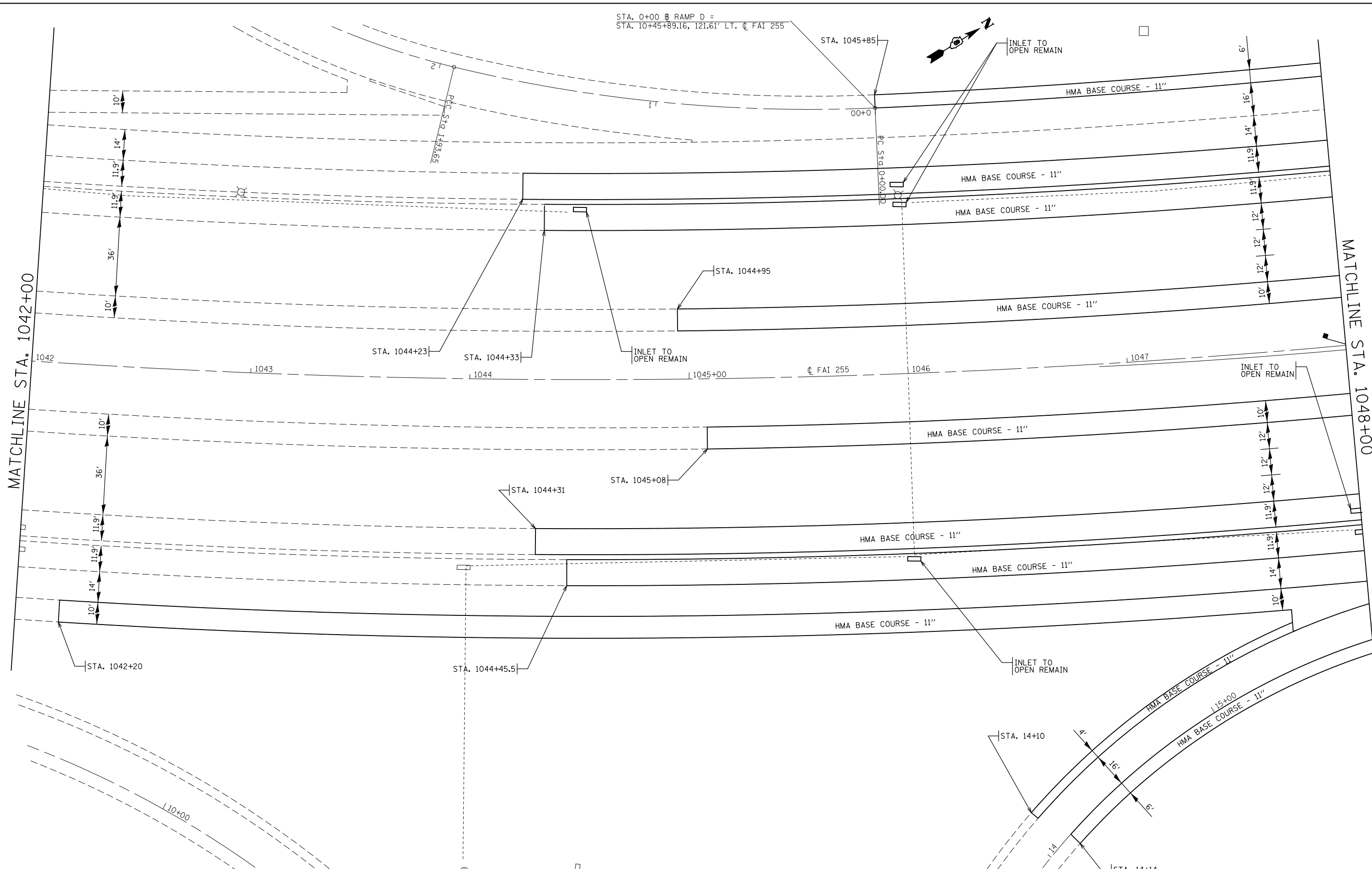
PAVEMENT MARKING SCHEDULE

STATIONING			PREFORMED PLASTIC PAVEMENT MARKING, TYPE B LINE - 4" (FOOT)			TEMPORARY PAVEMENT MARKING LINE - 4" (FOOT)			SHORT TERM PAVEMENT MARKING (FOOT)	RAISED RELECTIVE PAVEMENT MARKERS (EACH)	RAISED RELECTIVE PAVT. MRK. REMOVAL (EACH)	WORK ZONE PAVEMENT MRK. REM. (SQ FT)	COMMENT
			SOLID WHITE	SKIP-DASH WHITE	SOLID YELLOW	SOLID WHITE	SKIP-DASH WHITE	SOLID YELLOW					
1040+08.00	TO	1042+00.00	192	96	0	192	96	0	44.2	10	10	14.7	NB THRU LANE
1042+00.00	TO	1048+00.00	0	300	600	0	300	600	138.0	30	30	46.0	NB THRU LANE
1042+00.00	TO	1048+00.00	600	0	600	600	0	600	0.0	0	0	0.0	NB CD LANE
14+14.00	TO	15+47.00	133	0	133	133	0	133	0.0	0	0	0.0	RAMP
1044+23.00	TO	1048+00.00	377	189	377	377	189	377	86.7	19	19	28.9	SB THRU LANE
1044+33.00	TO	1048+00.00	367	0	367	367	0	367	0.0	0	0	0.0	SB CD LANE
1045+85.00	TO	1048+00.00	215	0	215	215	0	215	0.0	0	0	0.0	RAMP AUXILIARY LANE
1048+00.00	TO	1054+00.00	600	300	600	600	300	600	138.0	30	30	46.0	NB THRU LANE
1048+00.00	TO	1054+00.00	600	0	600	600	0	600	0.0	0	0	0.0	NB CD LANE
09+57.50	TO	12+24.25	267	0	267	267	0	267	0.0	0	0	0.0	RAMP
1054+00.00	TO	1060+00.00	600	0	600	600	0	600	0.0	0	0	0.0	SB CD LANE
1054+00.00	TO	1060+00.00	600	300	600	600	300	600	138.0	30	30	46.0	SB THRU LANE
1054+00.00	TO	1060+00.00	600	0	600	600	0	600	0.0	0	0	0.0	NB THRU LANE
1054+00.00	TO	1060+00.00	600	0	600	600	0	600	0.0	0	0	0.0	NB CD LANE
00+00.00	TO	03+35.00	335	0	335	335	0	335	0.0	0	0	0.0	RAMP
1060+00.00	TO	1062+00.00	200	100	200	200	100	200	46.0	10	10	15.3	SB THRU LANE
1062+00.00	TO	1065+00.00	300	75	300	300	75	300	34.5	8	8	11.5	SB THRU LANE
SUBTOTAL			6586	1660	6994	6586	1660	6994	763	166	166	254	
TOTAL				15239			15239		763	166	166	254	

GUARDRAIL SCHEDULE

STATION		SPBGR TYPE A 6' POSTS (FOOT)	TBT TY 6 (EACH)	TBT, TY 1 SPECIAL (FLARED) (EACH)	GUARDRAIL MARKERS TYPE A (EACH)	TERMINAL MARKER DIR. APPL. (EACH)	GUARDRAIL REMOVAL (FOOT)
1047+89.75	TO 1049+30.00	62.5	1	1	4	1.0	154.3
1048+58.50	TO 1049+81.80	50.0	1	1	4	1.0	134.0
1052+82.00	TO 1054+10.80	100.0	1	1	4	1.0	132.0
14+14.00	TO 15+47.00	112.5	1	1	4	1.0	155.5
TOTAL		325	4	4	16	4	576

STA. 0+00 @ RAMP D =
 STA. 10+45+89.16, 121.61' LT. @ FAI 255



MATCHLINE STA. 1042+00

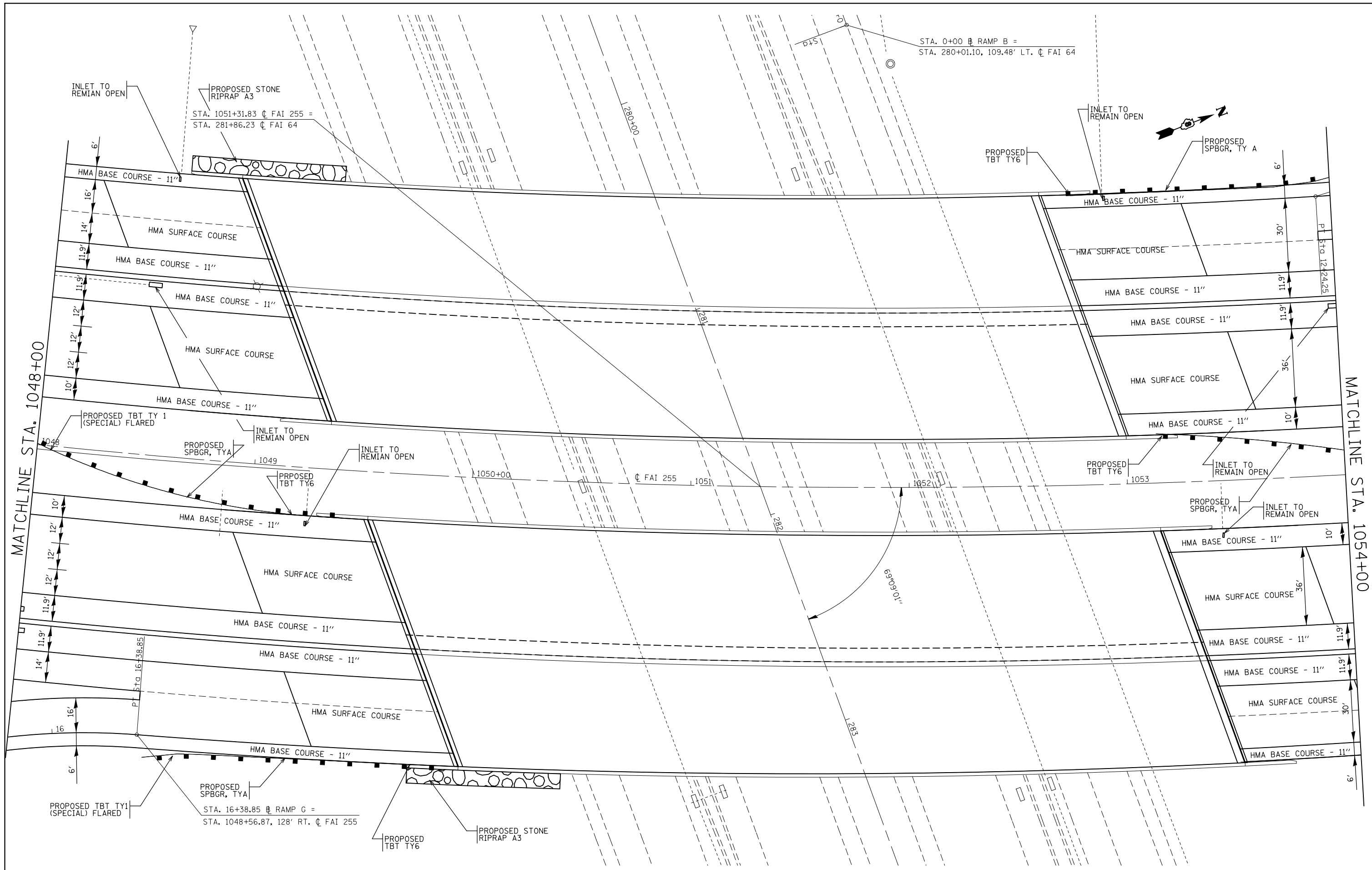
MATCHLINE STA. 1048+00

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PLAN SHEETS			
SCALE: 20:1	SHEET NO. 1 OF 5 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-2HB-2-I	ST. CLAIR	54	9
CONTRACT NO. 76B21				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



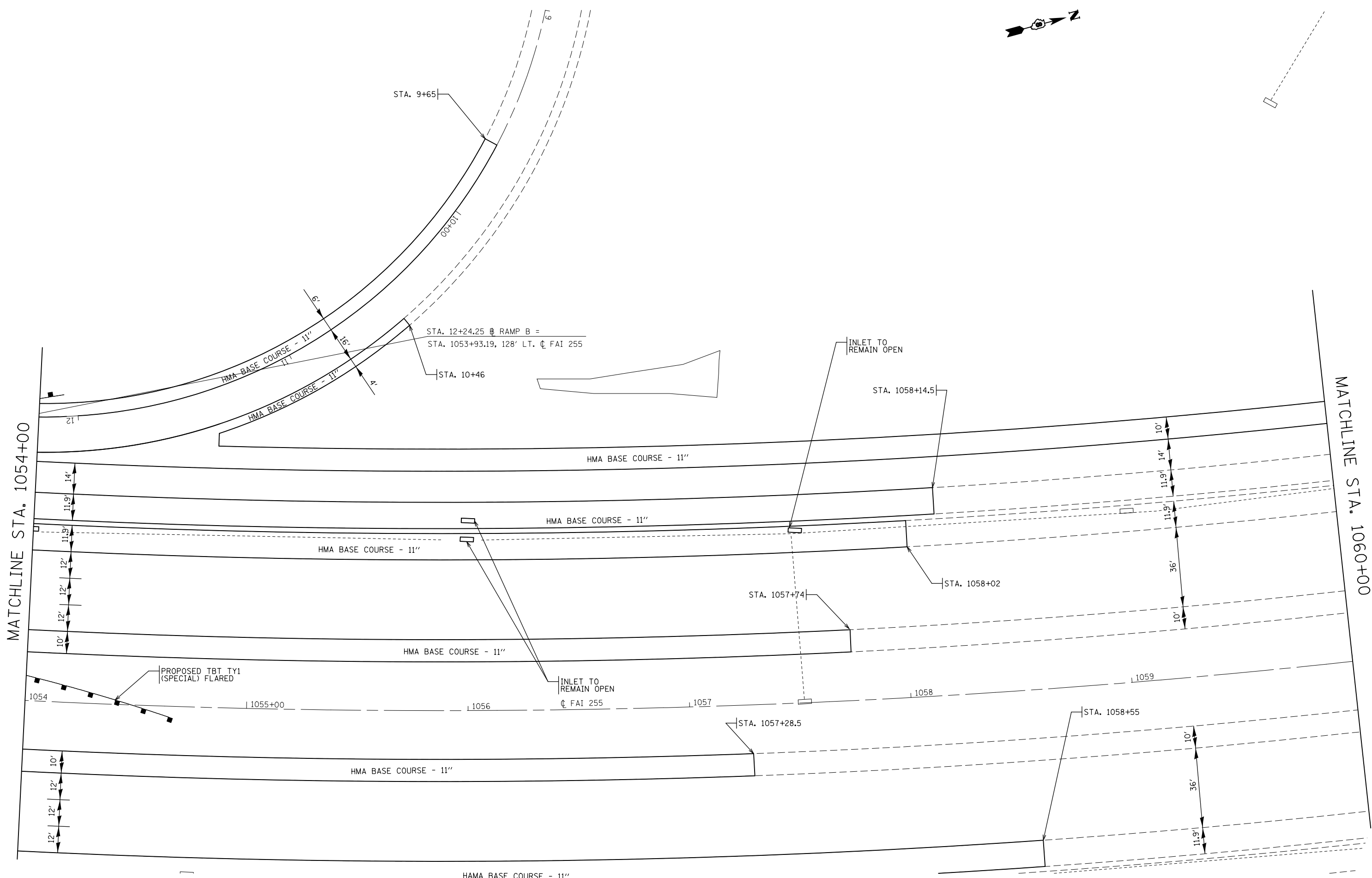
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN SHEETS

SCALE: 20:1 SHEET NO. 2 OF 5 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-2HB-2-I	ST. CLAIR	54	10
CONTRACT NO. 76B21				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

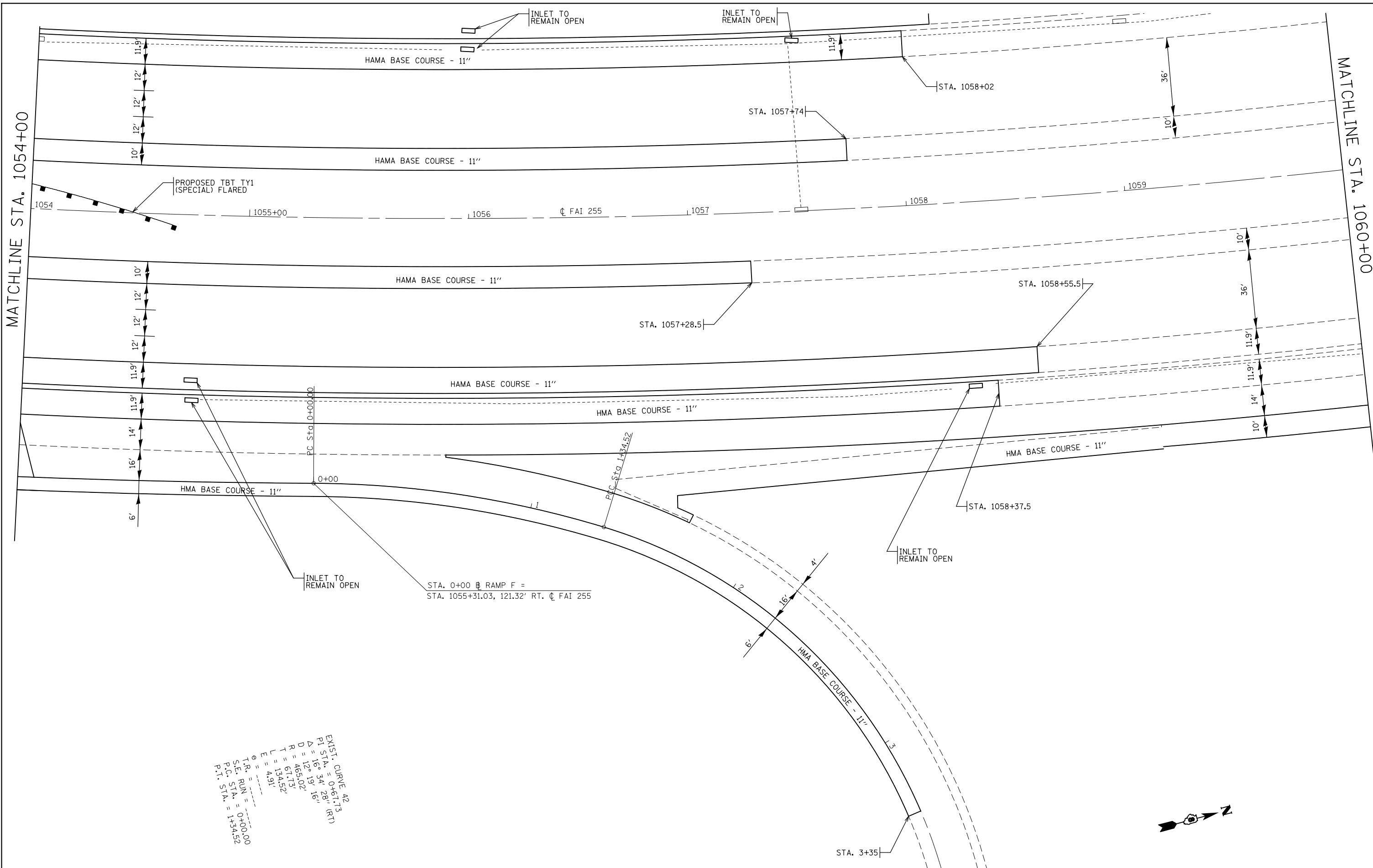


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN SHEETS			
SCALE: 20:1	SHEET NO. 3 OF 5 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-2HB-2-I	ST. CLAIR	54	11
CONTRACT NO. 76B21				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



EXIST. CURVE A2
 P.I. STA. = 0+61.73
 $\Delta = 16^\circ 34' 28''$ (RT)
 $D = 120.19$ 16"
 $R = 465.02'$
 $T = 61.73'$
 $L = 134.52'$
 $E = 4.91'$
 $\theta = \dots$
 T.R. RUN = 0+00.00
 S.E. STA. = 1+34.52
 P.I. STA. = 1+34.52

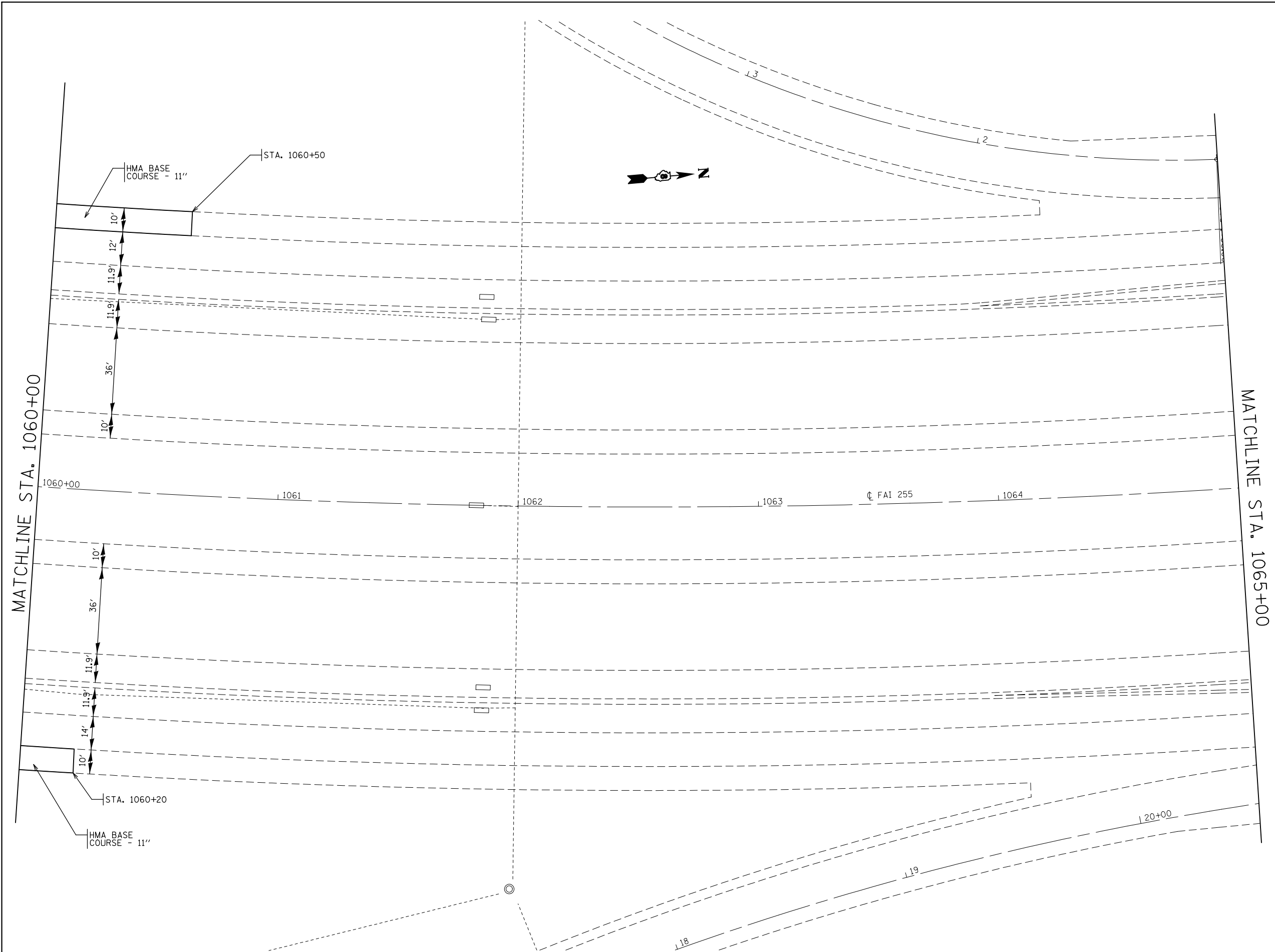


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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEETS			
SCALE: 20:1	SHEET NO. 4 OF 5 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-2HB-2-I	ST. CLAIR	54	12
CONTRACT NO. 76B21				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



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	PLOT DATE = 12/14/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN SHEETS			
SCALE: 20:1	SHEET NO. 5 OF 5 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-2HB-2-I	ST. CLAIR	54	13
CONTRACT NO. 76B21				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



MAX WIDTH
12FT 6IN
1 MILE
AHEAD



EAST



MAX WIDTH
12FT 6IN
1 MILE
AHEAD

WEST



MAX WIDTH
12FT 6IN
1 MILE
AHEAD

SOUTH



MAX WIDTH
12FT 6IN
1 MILE
AHEAD

NOTES

1. ALL SIGNS REQUIRED WILL BE SUPPLIED TO THE CONTRACTOR BY IDOT.
2. THE CONTRACTOR SHALL FURNISH THE POSTS AND ERECT SIGNS AT THE LOCATIONS SHOWN ON THIS SHEET, AS DIRECTED BY THE RESIDENT ENGINEER/RESIDENT TECHNICIAN.
3. THE CONTRACTOR SHALL GIVE THE ILLINOIS DEPARTMENT OF TRANSPORTATION, BUREAU OF OPERATIONS, TWO WEEKS NOTICE FOR SIGNS. THE CONTRACTOR SHALL PICK UP THE SIGNS AT THE TM BUILDING IN FAIRVIEW HEIGHTS, AND RETURN THEM UPON COMPLETION OF THE CONTRACT. CONTACT JEAN SLAPE - 618-394-2189.
4. THE ABOVE NOTED WORK SHALL BE PAID FOR AT THE CONTRACT PRICE, LUMP SUM, FOR WIDE LOAD SIGNING AND NO OTHER COMPENSATION WILL BE ALLOWED.
5. SIGN SPACING SHALL BE 400' OR TO FIT FIELD CONDITIONS.
6. THE HEIGHT TO THE BOTTOM OF THE LOWEST SIGN SHALL NOT BE LESS THAN 6'.

SIGNS REQUIRED

MAX WIDTH
12FT 6IN
1 MILE
AHEAD

(8)



(4)

NORTH

(2)



(4)

SOUTH

(2)

EAST

(2)

WEST

(2)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WIDE LOAD SIGNING

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82+2HB-2-I	ST. CLAIR	54	14
CONTRACT NO. 76B21				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SUGGESTED STAGE CONSTRUCTION NOTES

PRE-STAGE CONSTRUCTION

1. PRESTAGE CONSTRUCTION SHALL CONSIST OF REMOVING THE EXISTING SHOULDER TO THE LIMITS SHOWN ON THE PLANS AND CONSTRUCTION OF THE WIDENING REQUIRED FOR STAGE 1 CONSTRUCTION. TRAFFIC CONTROL FOR THIS WORK SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF TRAFFIC CONTROL AND PROTECTION STANDARD 701401. THE CONTRACTOR SHALL MAINTAIN TWO LANES OF TRAFFIC IN BOTH DIRECTIONS AT ALL TIMES. AT NO TIME SHALL THE CONTRACTOR'S OPERATION INTERFERE WITH THIS.
2. CHANGEABLE MESSAGE BOARDS SHALL BE PLACED 2 WEEKS PRIOR TO CONSTRUCTION AND AT THE DIRECTION OF THE ENGINEER.

STAGE I CONSTRUCTION

1. STAGE I CONSTRUCTION SHALL CONSIST OF STAGE I CONSTRUCTION OF THE BRIDGE TO THE LIMITS SHOWN IN THE PLANS, REMOVAL OF THE EXISTING SHOULDER AS DETAILED IN THE PLANS, REMOVAL OF CONFLICTING PAVEMENT MARKING, AND THE CONSTRUCTION OF THE WIDENING NECESSARY FOR STAGE II TRAFFIC CONTROL.
2. THE BOTTOM 6" OF THE TEMPORARY CONCRETE BARRIER SHALL BE PAINTED WITH TEMPORARY PAVEMENT MARKING CONSISTENT WITH STAGE I TRAFFIC CONTROL PAVEMENT MARKINGS.
3. THE TRAFFIC CONTROL FOR STAGE I SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF TRAFFIC CONTROL AND PROTECTION, STANDARDS 701400, 701402 AND 701411 AND THE STAGE CONSTRUCTION PLANS. ANY ADDITIONAL SIGNING OR TRAFFIC CONTROL DEVICES SHOWN ON THE STAGE CONSTRUCTION PLANS SHALL BE CONSIDERED AS INCLUDED IN THE APPLICABLE TRAFFIC CONTROL AND PROTECTION STANDARD.
4. THE CONTRACTOR WILL BE ALLOWED THE OPTION OF USING SAND MODULE IMPACT ATTENUATORS FOR THIS STAGE.








STAGE II CONSTRUCTION

1. STAGE II CONSTRUCTION SHALL CONSIST OF STAGE II CONSTRUCTION OF THE BRIDGE TO THE LIMITS SHOWN IN THE PLANS AND REMOVAL OF CONFLICTING PAVEMENT MARKING.
2. THE BOTTOM 6" OF THE TEMPORARY CONCRETE BARRIER SHALL BE PAINTED WITH TEMPORARY PAVEMENT MARKING CONSISTENT WITH STAGE II TRAFFIC CONTROL PAVEMENT MARKINGS.
3. THE TRAFFIC CONTROL FOR STAGE II SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF TRAFFIC CONTROL AND PROTECTION, STANDARDS 701400, 701402 AND 701411 AND THE STAGE CONSTRUCTION PLANS. ANY ADDITIONAL SIGNING OR TRAFFIC CONTROL DEVICES SHOWN ON THE STAGE CONSTRUCTION PLANS SHALL BE CONSIDERED AS INCLUDED IN THE APPLICABLE TRAFFIC CONTROL AND PROTECTION STANDARD.
4. THE CONTRACTOR WILL BE ALLOWED THE OPTION OF USING SAND MODULE IMPACT ATTENUATORS FOR THIS STAGE.

NOTES

TRAFFIC CONTROL DETAILS AT THE RAMP/MAINLINE JUNCTION NOT SHOWN ON THESE PLANS SHALL CONFORM TO STANDARD 701411 AND/OR AS DIRECTED BY THE ENGINEER.
 TRAFFIC CONTROL DETAILS FOR THE MAINLINE NOT SHOWN ON THESE PLANS SHALL CONFORM TO STANDARD 701402 AND/OR AS DIRECTED BY THE ENGINEER.
 THE COST OF THE TEMPORARY PAVEMENT MARKING SHOWN IN THE STAGE CONSTRUCTION PLANS SHALL BE INCLUDED IN THE APPLICABLE TRAFFIC CONTROL AND PROTECTION STANDARD.
 THE TRAFFIC CONTROL SHOWN IS SUGGESTED AND FINAL APPROVAL WILL BE AT THE DISCRETION OF THE ENGINEER.

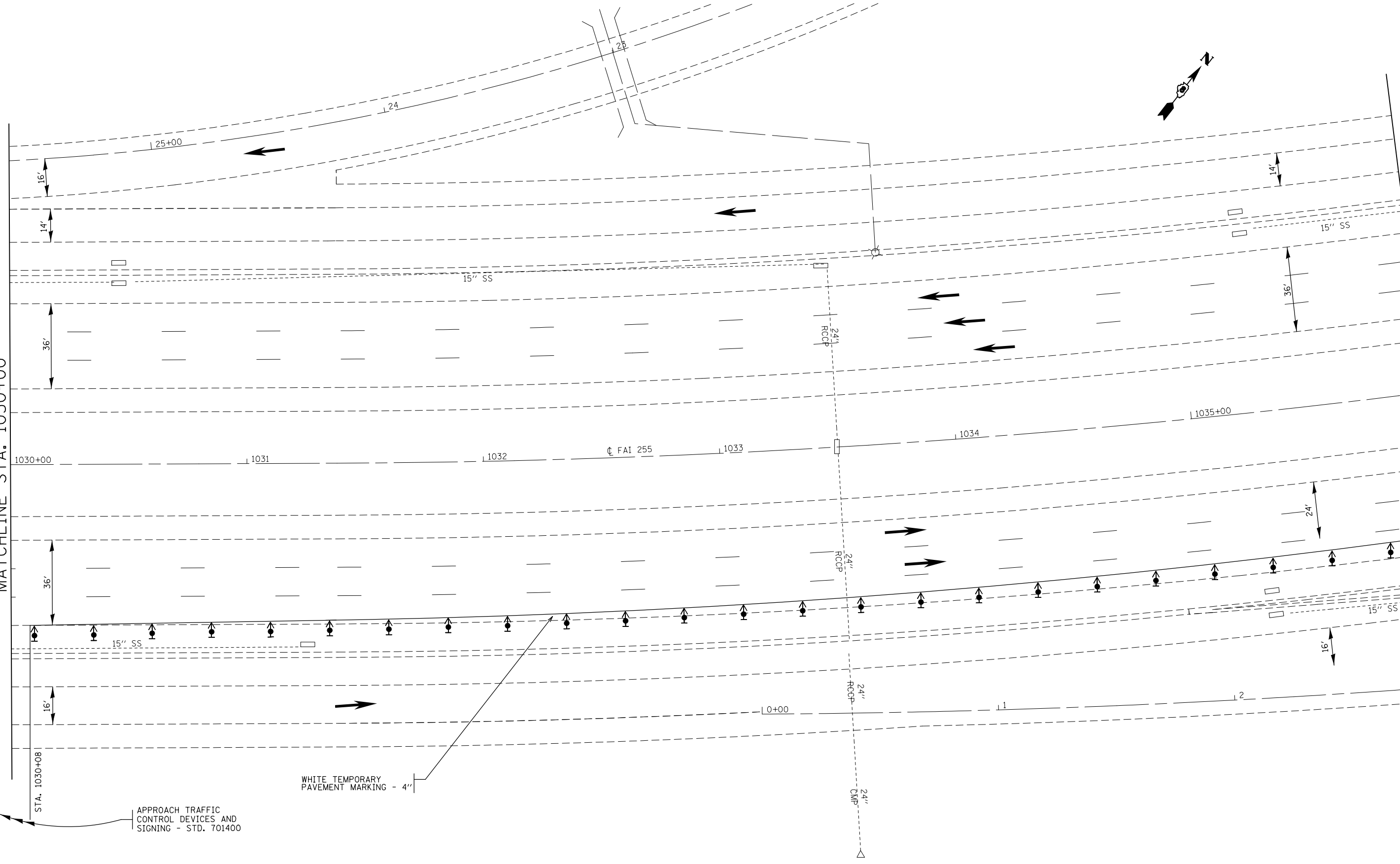
LEGEND

-  DRUM WITH STEADY BURNING MONODIRECTION LIGHT
-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
-  TYPE III BARRICADE
-  TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATOR
-  CONSTRUCTION AREA
-  DIRECTION OF TRAFFIC

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	PLOT DATE = 12/14/2012	DATE -	REVISED -		SCALE:	SHEET NO. 1 OF 18 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

MATCHLINE STA. 1030+00

MATCHLINE STA. 1036+00



WHITE TEMPORARY PAVEMENT MARKING - 4"

APPROACH TRAFFIC CONTROL DEVICES AND SIGNING - STD. 701400

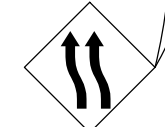
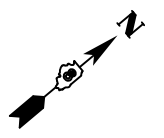
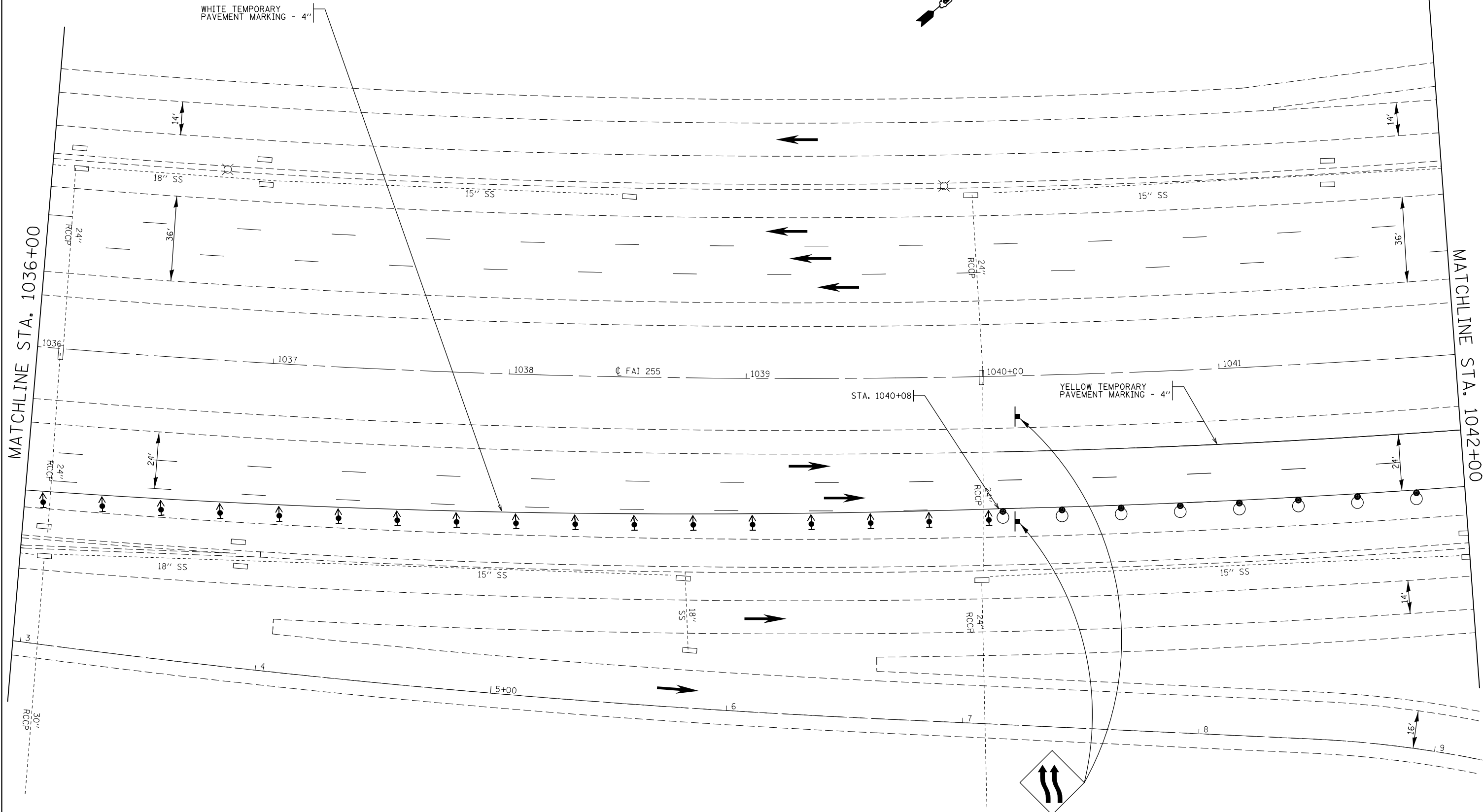
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUGGESTED STAGE CONSTRUCTION AND TRAFFIC CONTROL - STAGE I

SCALE: 20:1 SHEET NO. 2 OF 18 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-82-2H8-2-1	ST. CLAIR	54	16
CONTRACT NO. 76B21				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



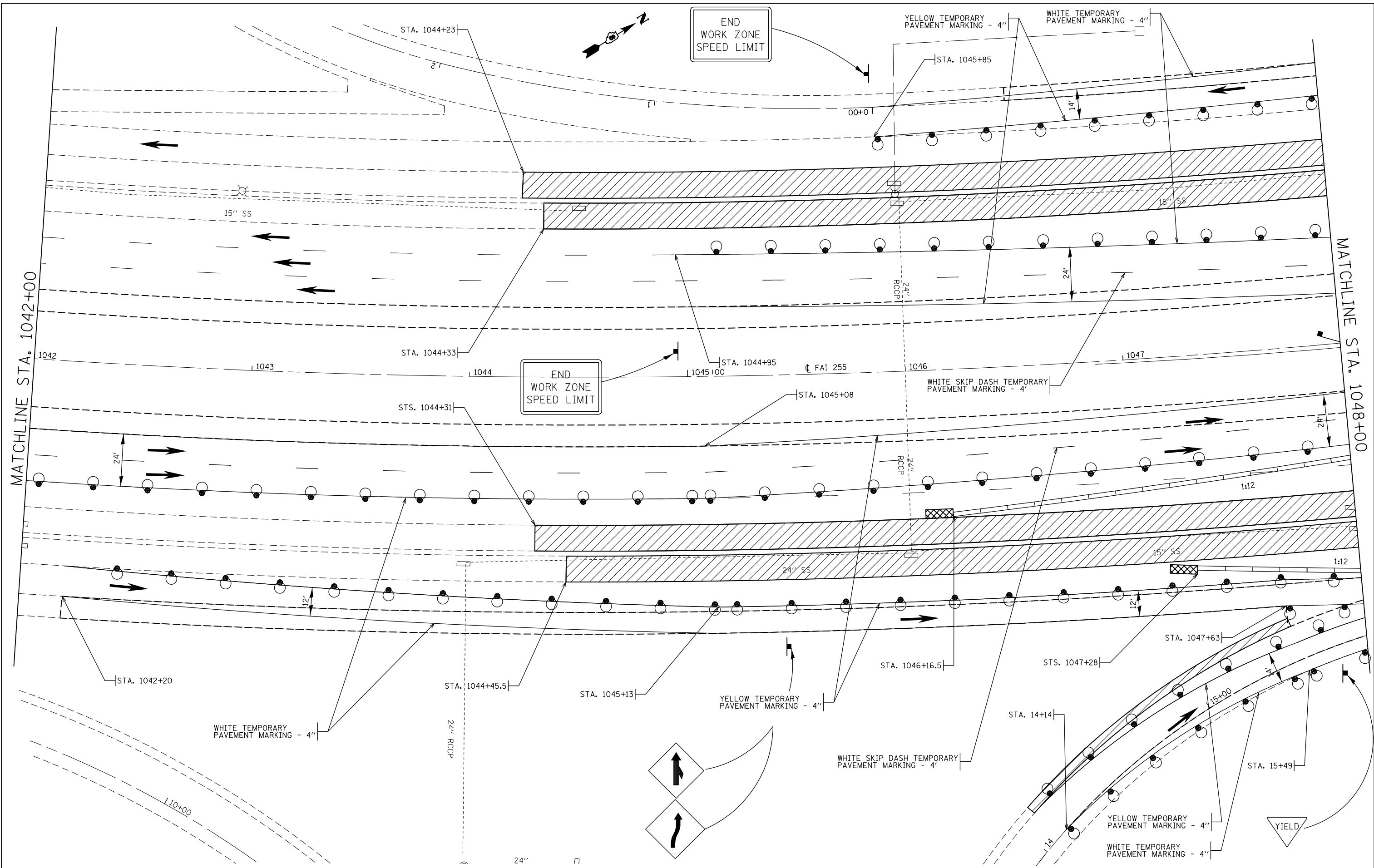
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	PLOT DATE = 12/14/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUGGESTED STAGE CONSTRUCTION AND TRAFFIC CONTROL - STAGE I

SCALE: 20:1 SHEET NO. 3 OF 18 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-82-2H8-2-1	ST. CLAIR	54	17
CONTRACT NO. 76B21				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



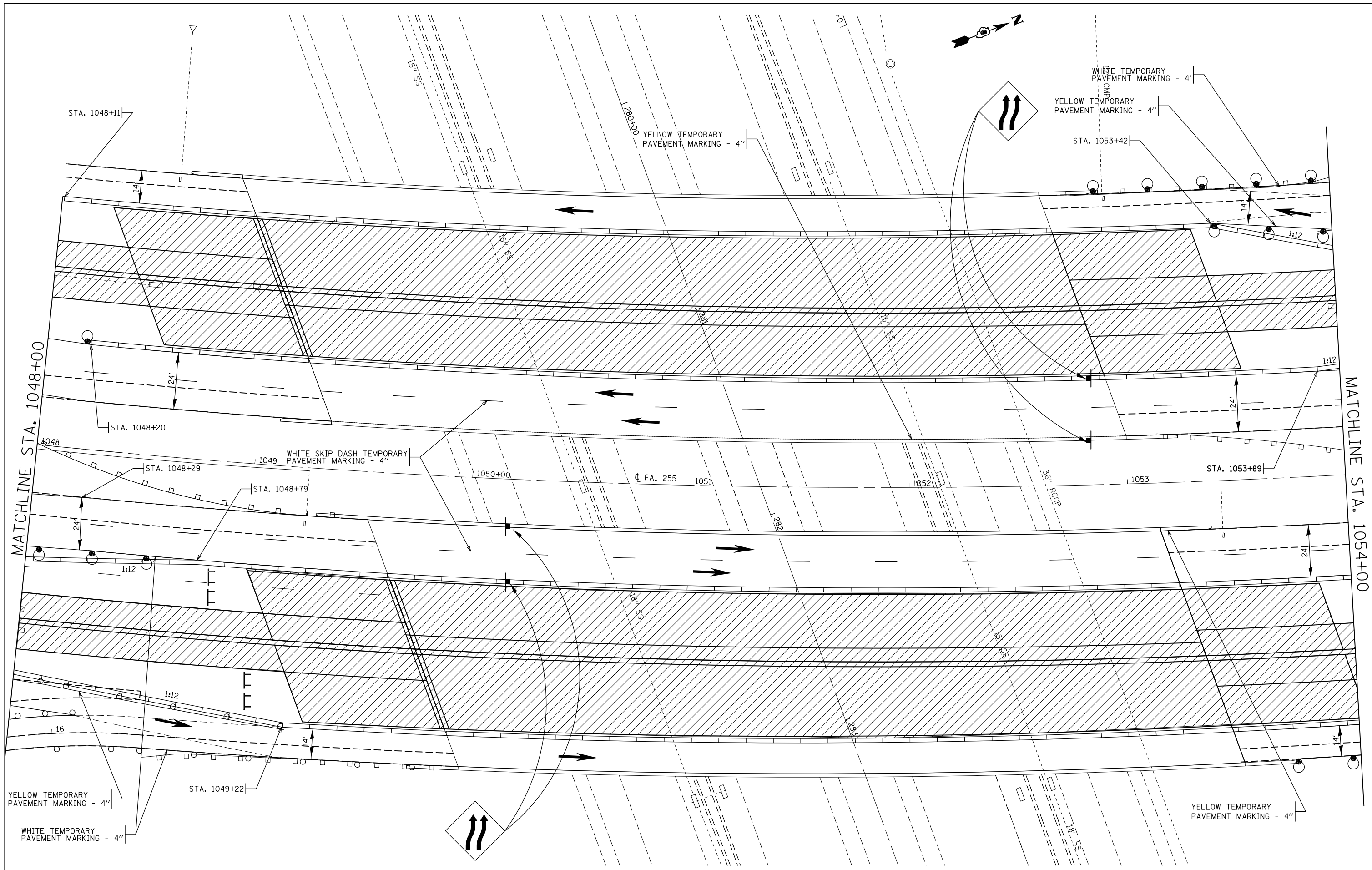
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUGGESTED STAGE CONSTRUCTION AND TRAFFIC CONTROL - STAGE I

SCALE: 20:1 SHEET NO. 4 OF 18 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-82-2H8-2-1	ST. CLAIR	54	18
CONTRACT NO. 76B21				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



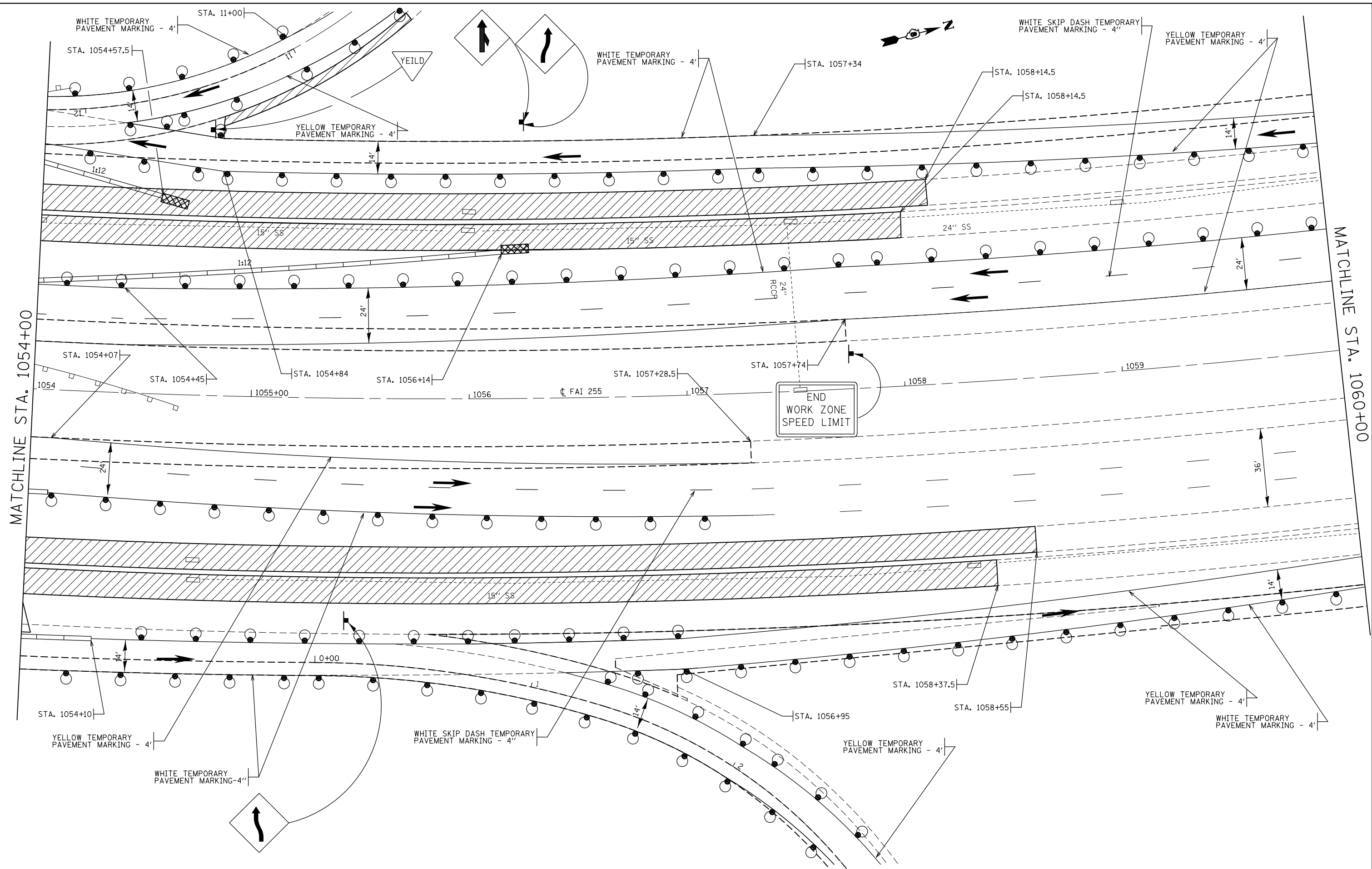
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUGGESTED STAGE CONSTRUCTION AND TRAFFIC CONTROL - STAGE I

SCALE: 20:1 SHEET NO. 5 OF 18 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-82-2H8-2-1	ST. CLAIR	54	19
CONTRACT NO. 76B21				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



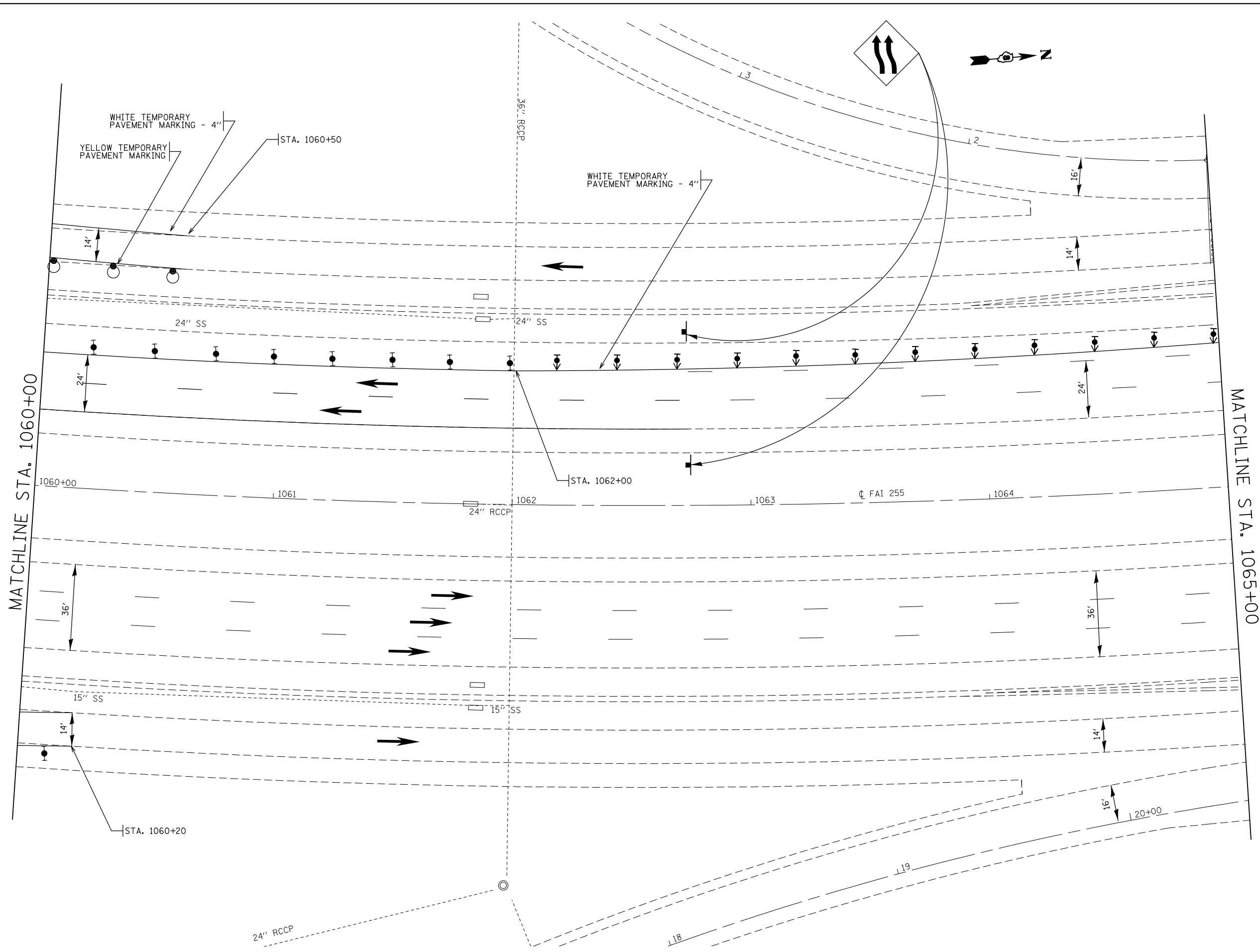
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	PLOT DATE = 12/14/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUGGESTED STAGE CONSTRUCTION AND TRAFFIC CONTROL - STAGE I

SCALE: 20:1 SHEET NO. 6 OF 18 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-82-2H8-2-1	ST. CLAIR	54	20
CONTRACT NO. 76B21				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



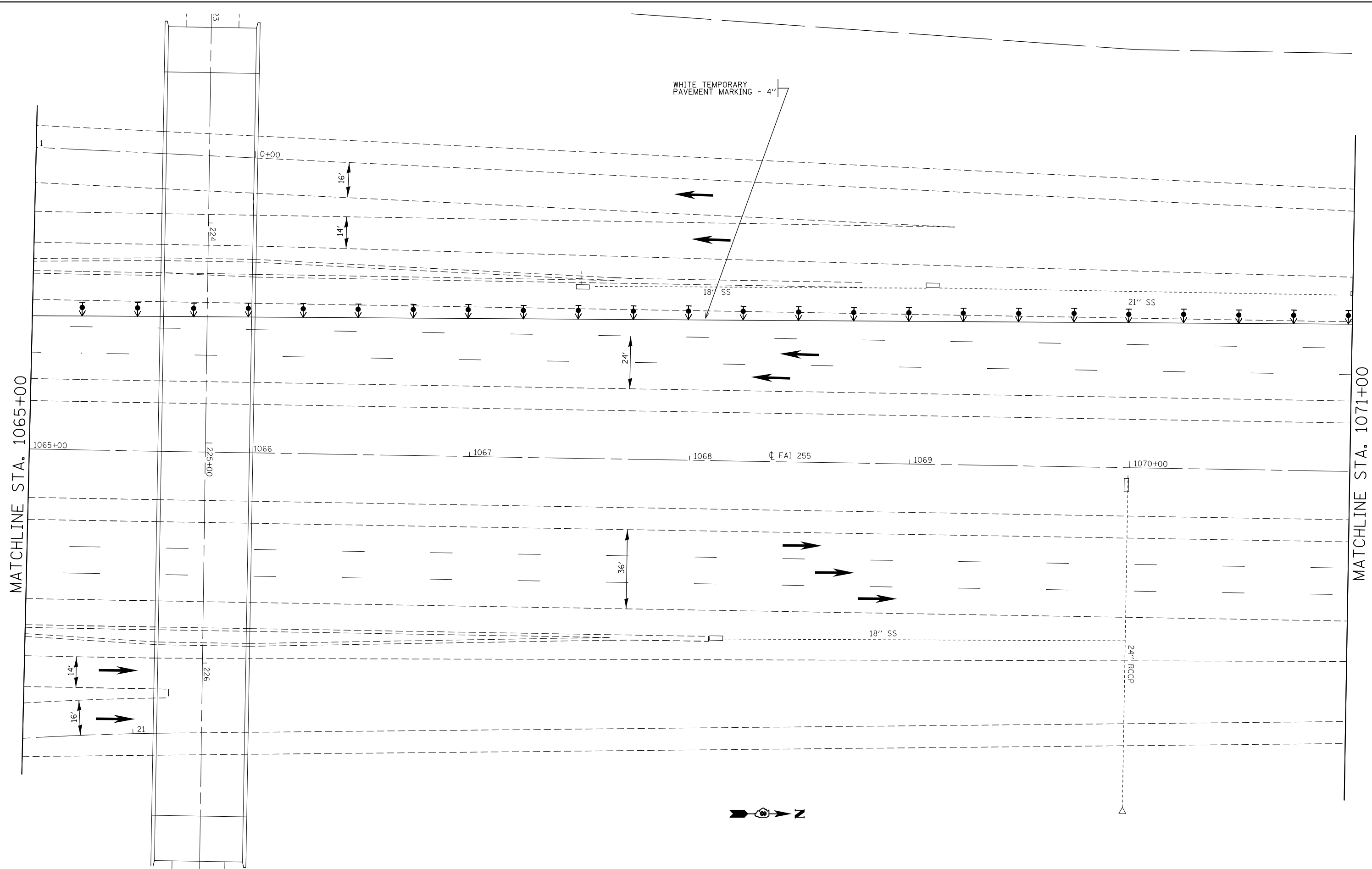
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	PLOT DATE = 12/14/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUGGESTED STAGE CONSTRUCTION AND TRAFFIC CONTROL - STAGE I

SCALE: 20:1 SHEET NO. 7 OF 18 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-82-2H8-2-1	ST. CLAIR	54	21
CONTRACT NO. 76B21				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



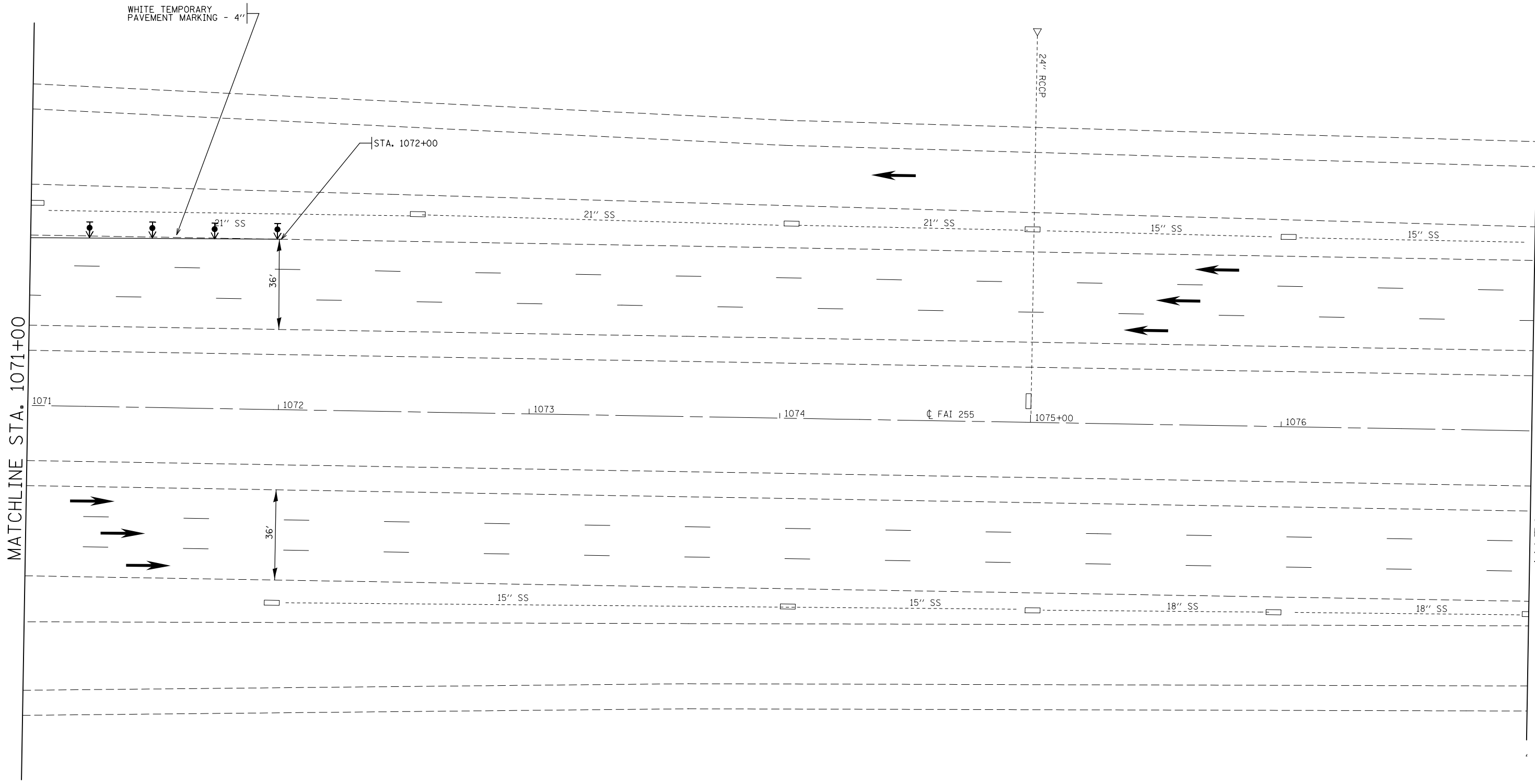
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	PLOT DATE = 12/14/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUGGESTED STAGE CONSTRUCTION AND TRAFFIC CONTROL - STAGE I

SCALE: 20:1 SHEET NO. 8 OF 18 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-82-2H8-2-1	ST. CLAIR	54	22
CONTRACT NO. 76B21				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



MATCHLINE STA. 1071+00

MATCHLINE STA. 1077+00



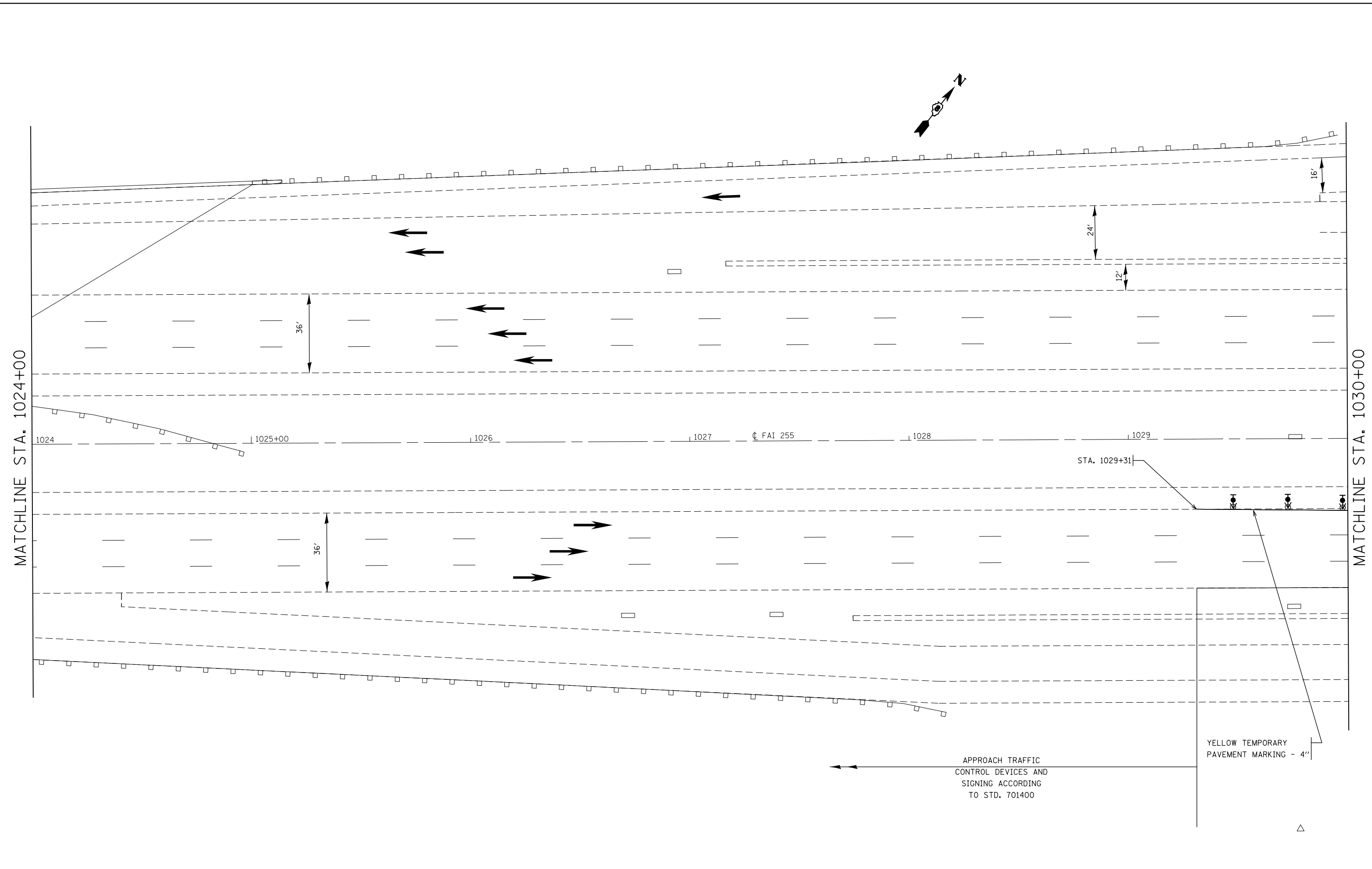
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	PLOT DATE = 12/14/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUGGESTED STAGE CONSTRUCTION AND TRAFFIC CONTROL - STAGE I

SCALE: 20:1 SHEET NO. 9 OF 18 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-82-2H8-2-1	ST. CLAIR	54	23
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76B21	



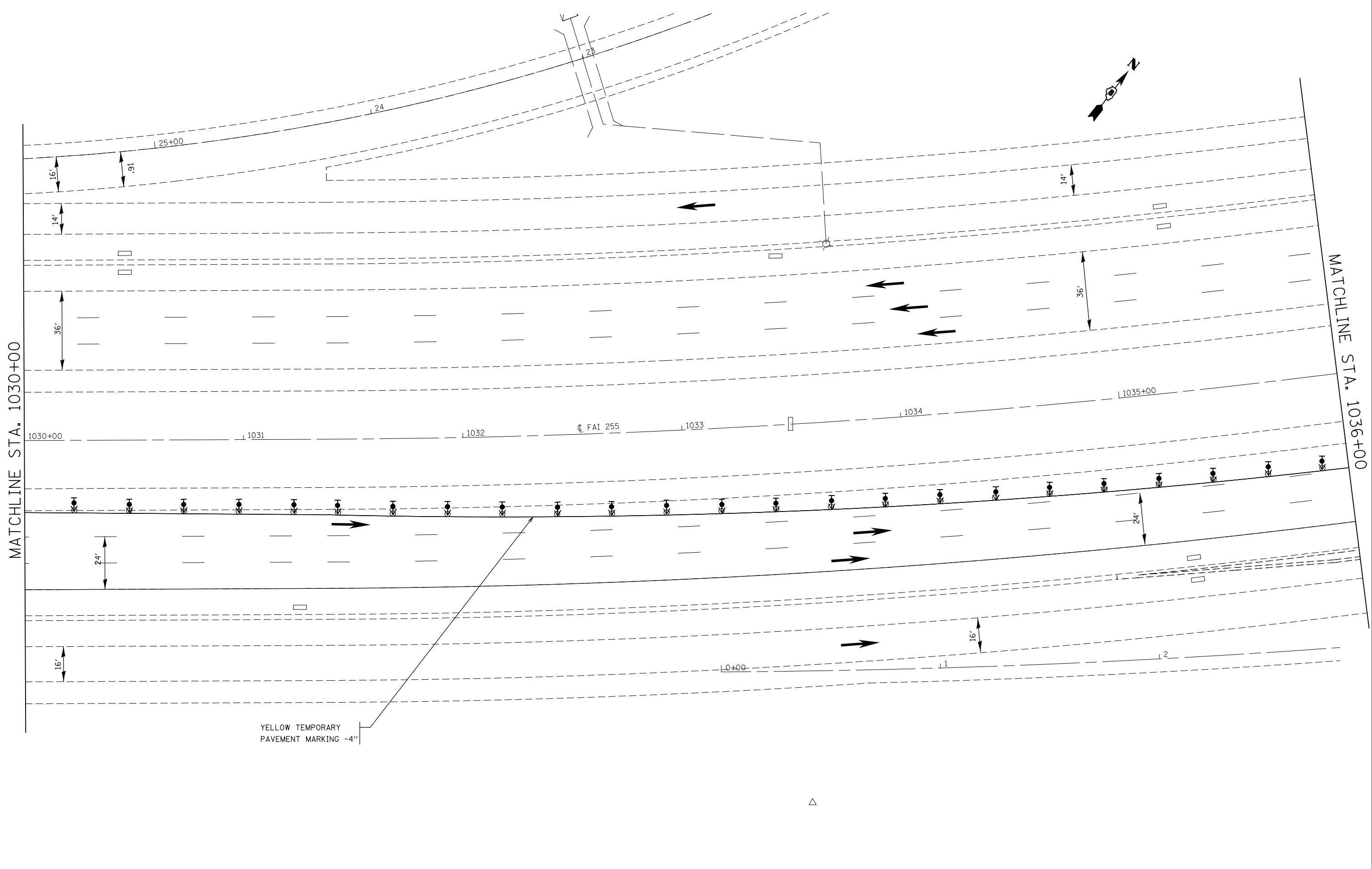
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUGGESTED STAGE CONSTRUCTION AND TRAFFIC CONTROL - STAGE II

SCALE: 20:1 SHEET NO. 10 OF 18 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-2HB-2-1	ST. CLAIR	54	24
CONTRACT NO. 76B21				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



MATCHLINE STA. 1030+00

MATCHLINE STA. 1036+00

YELLOW TEMPORARY
PAVEMENT MARKING -4"

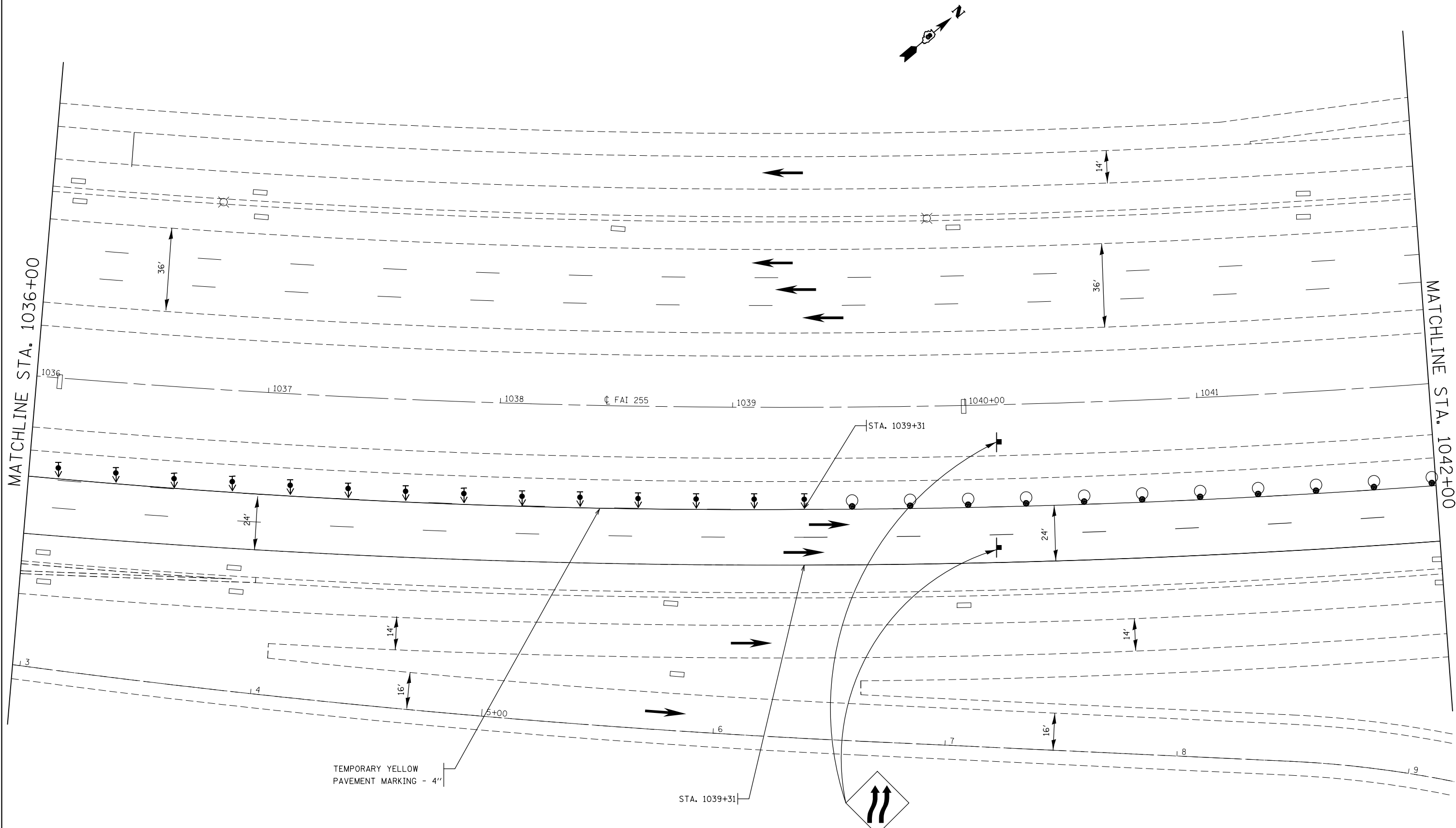
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	PLOT DATE = 12/14/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUGGESTED STAGE CONSTRUCTION AND TRAFFIC CONTROL - STAGE II

SCALE: 20:1 SHEET NO. 11 OF 18 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-2HB-2-1	ST. CLAIR	54	25
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76B21	



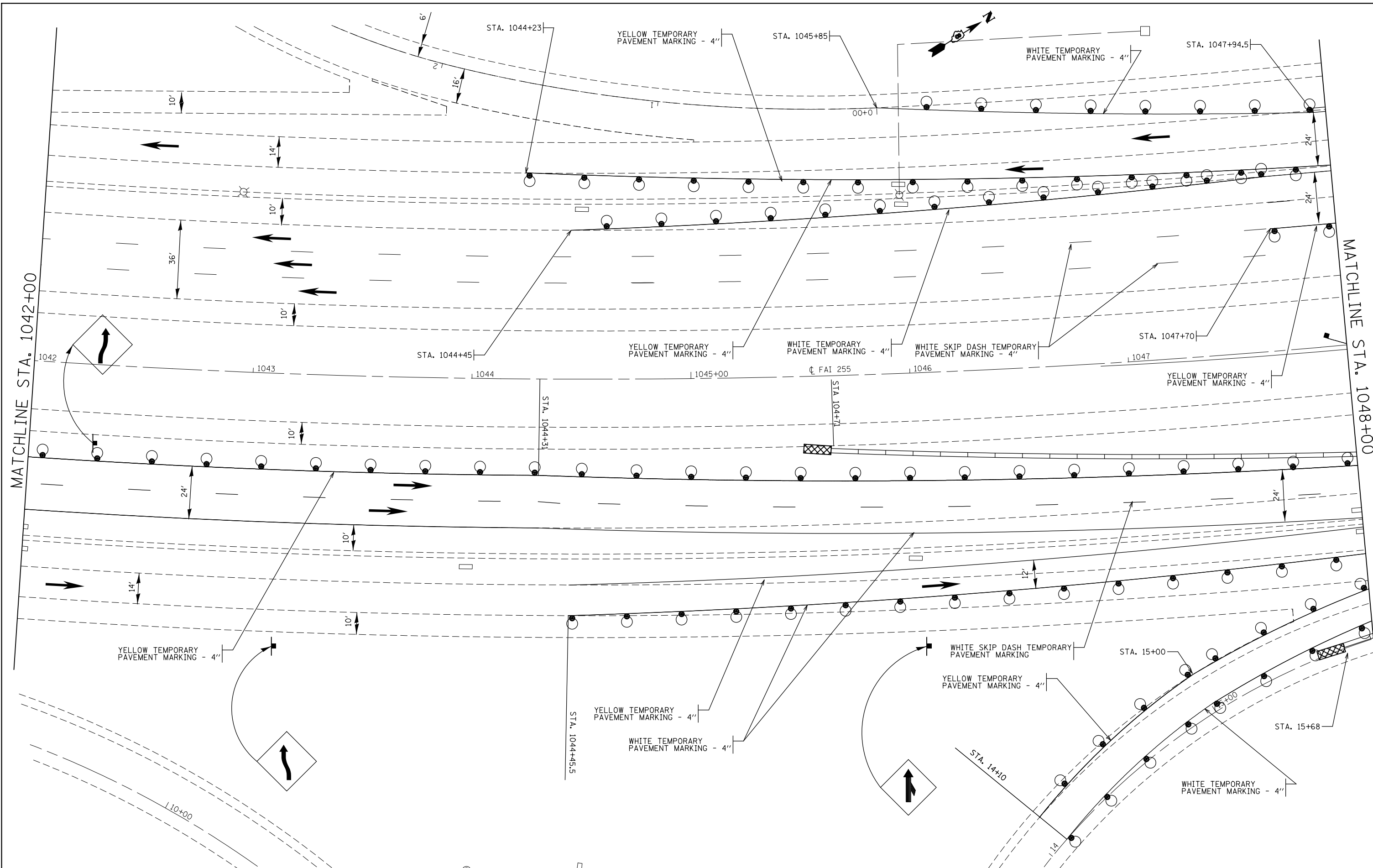
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	PLOT DATE = 12/14/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUGGESTED STAGE CONSTRUCTION AND TRAFFIC CONTROL - STAGE II

SCALE: 20:1 SHEET NO. 12 OF 18 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-2HB-2-1	ST. CLAIR	54	26
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 76B21	



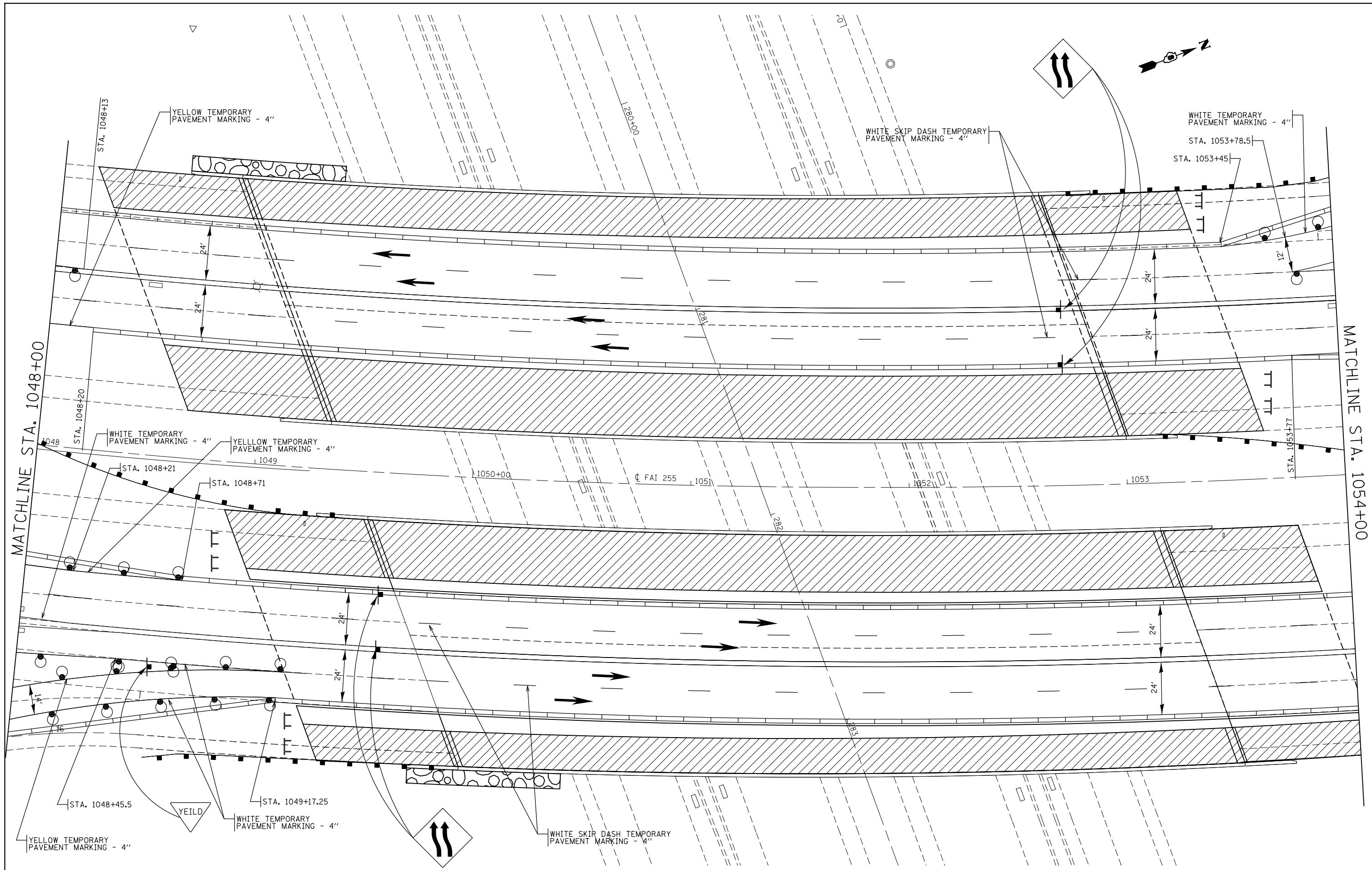
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	PLOT DATE = 12/14/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUGGESTED STAGE CONSTRUCTION AND TRAFFIC CONTROL - STAGE II

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-2HB-2-1	ST. CLAIR	54	27
CONTRACT NO. 76B21				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SCALE: 20:1 SHEET NO. 13 OF 18 SHEETS STA. TO STA.

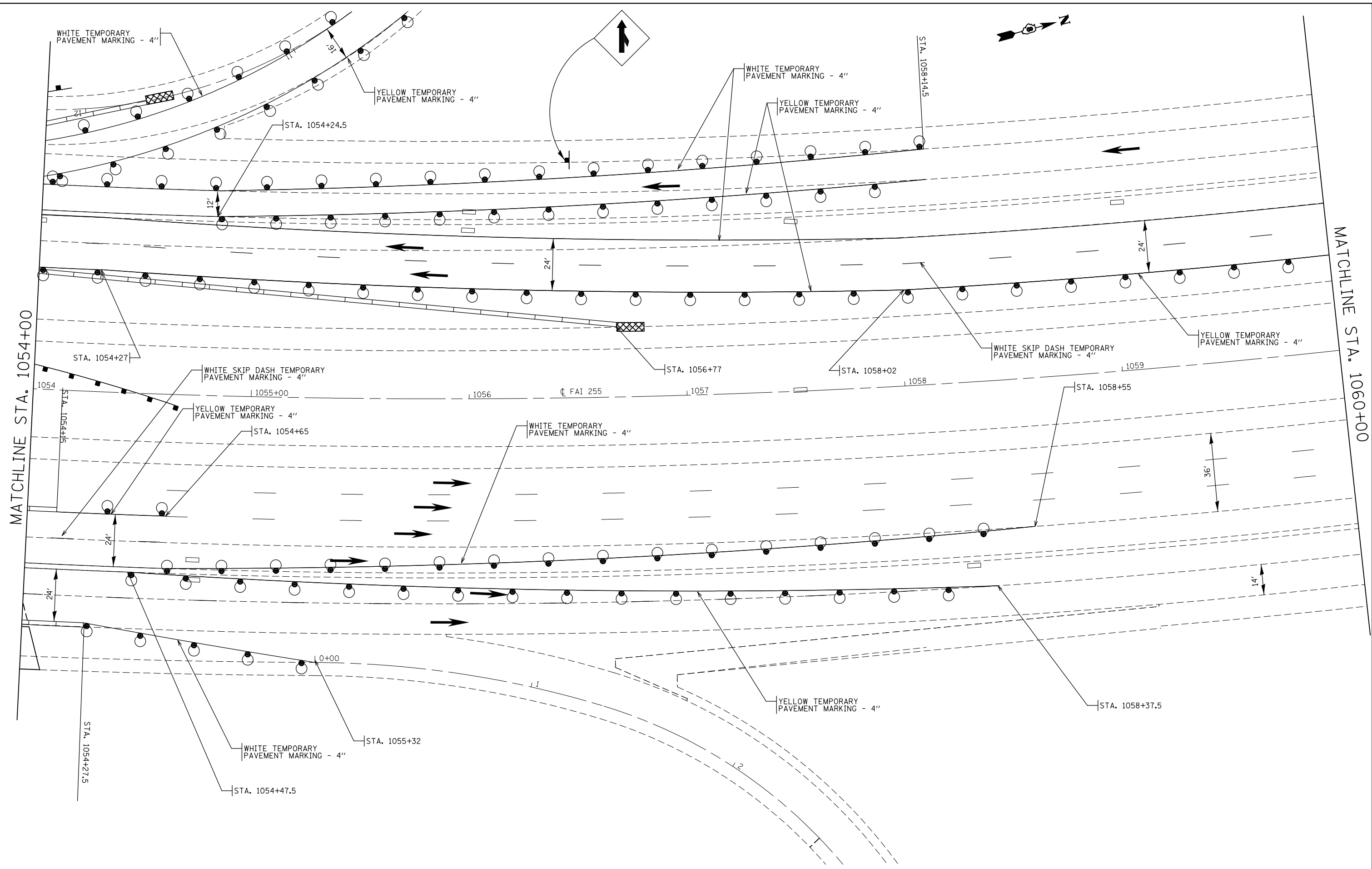


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	PLOT DATE = 12/14/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED STAGE CONSTRUCTION AND TRAFFIC CONTROL - STAGE II
 SCALE: 20:1 SHEET NO. 14 OF 18 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-2HB-2-1	ST. CLAIR	54	28
CONTRACT NO. 76B21				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



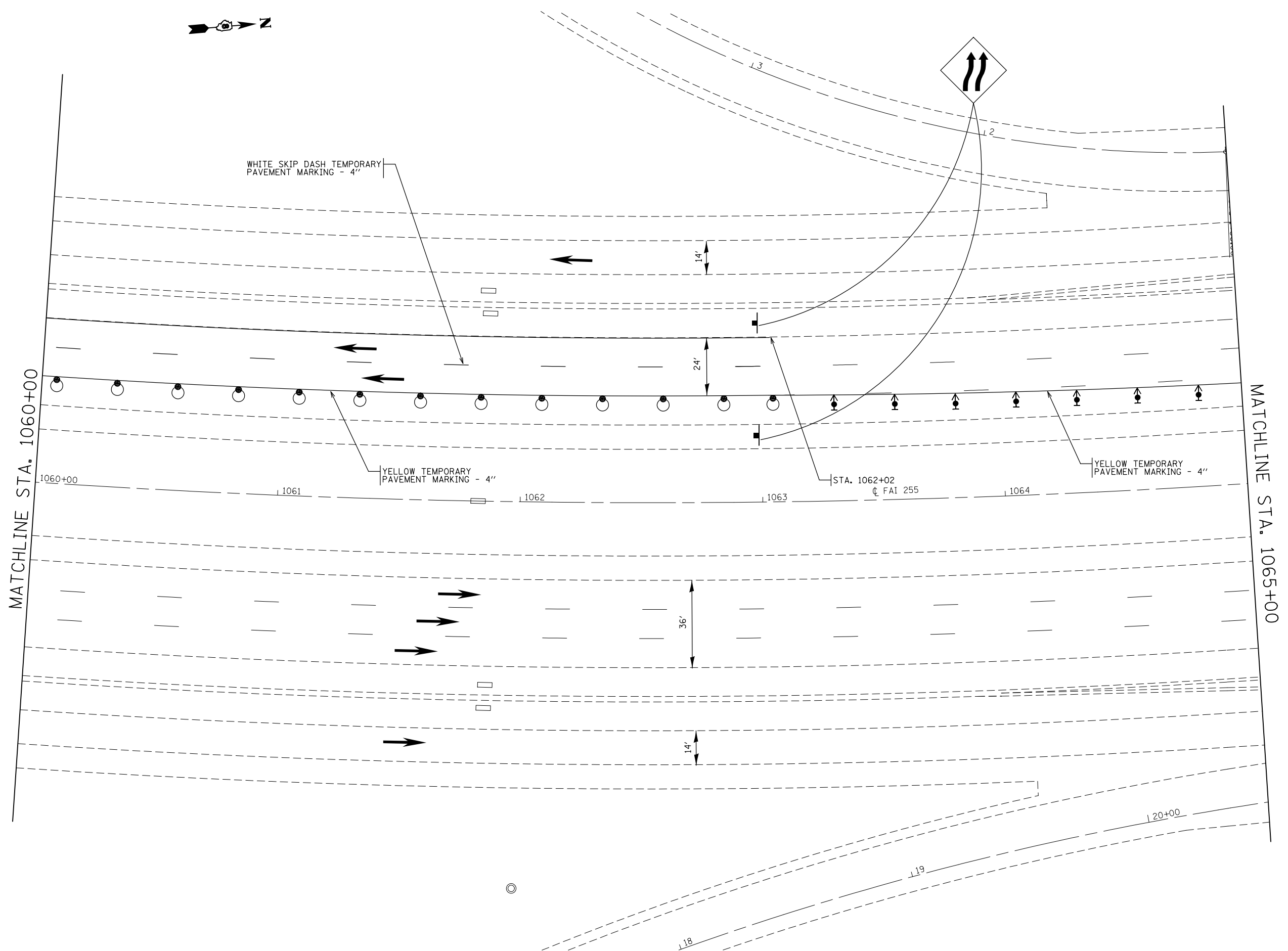
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	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 12/14/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUGGESTED STAGE CONSTRUCTION AND TRAFFIC CONTROL - STAGE II

SCALE: 20:1 SHEET NO. 15 OF 18 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-2HB-2-1	ST. CLAIR	54	29
CONTRACT NO. 76B21				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



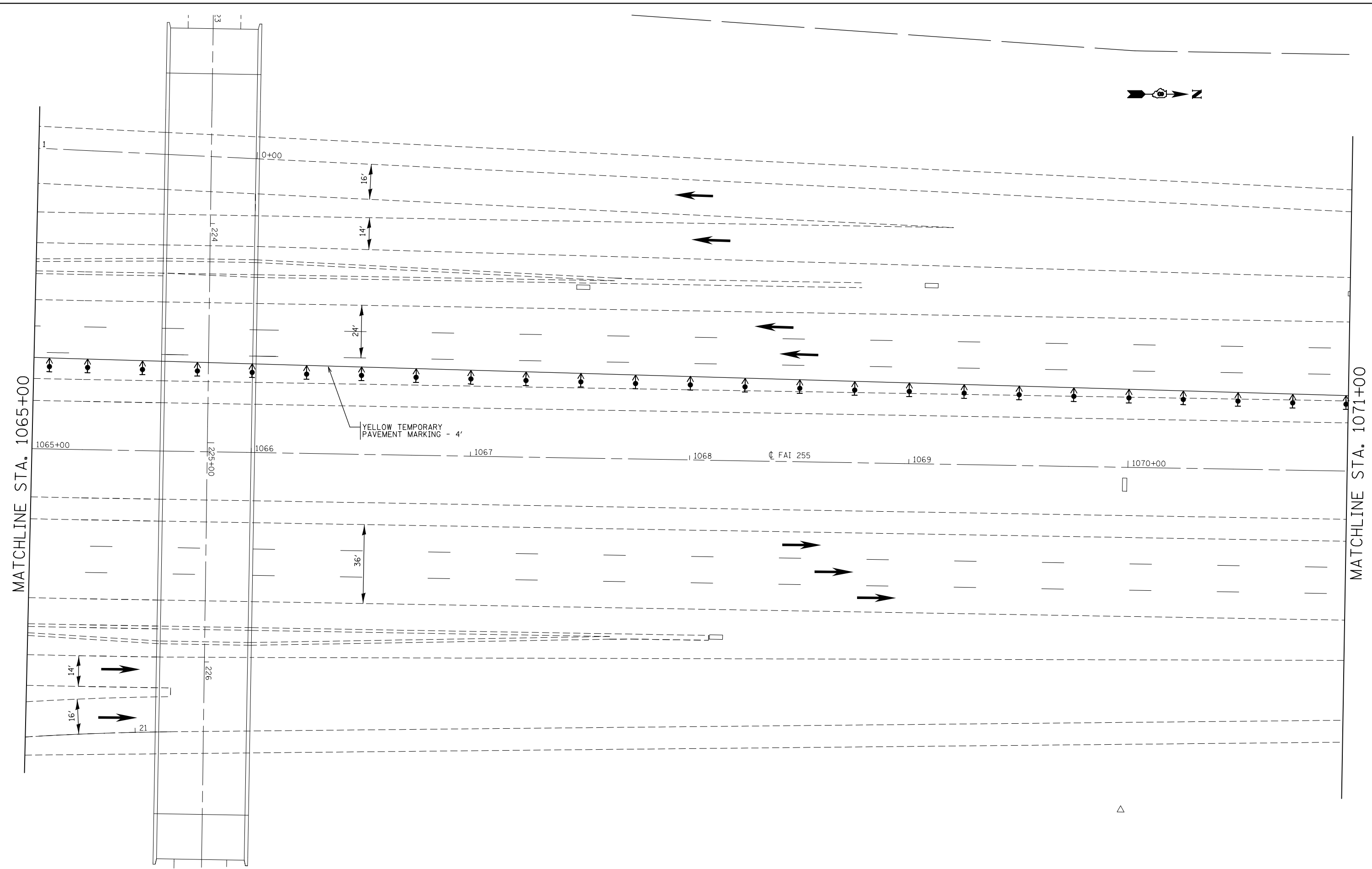
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	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 12/14/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUGGESTED STAGE CONSTRUCTION AND TRAFFIC CONTROL - STAGE II

SCALE: 20:1 SHEET NO. 16 OF 18 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-2HB-2-1	ST. CLAIR	54	30
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76B21	



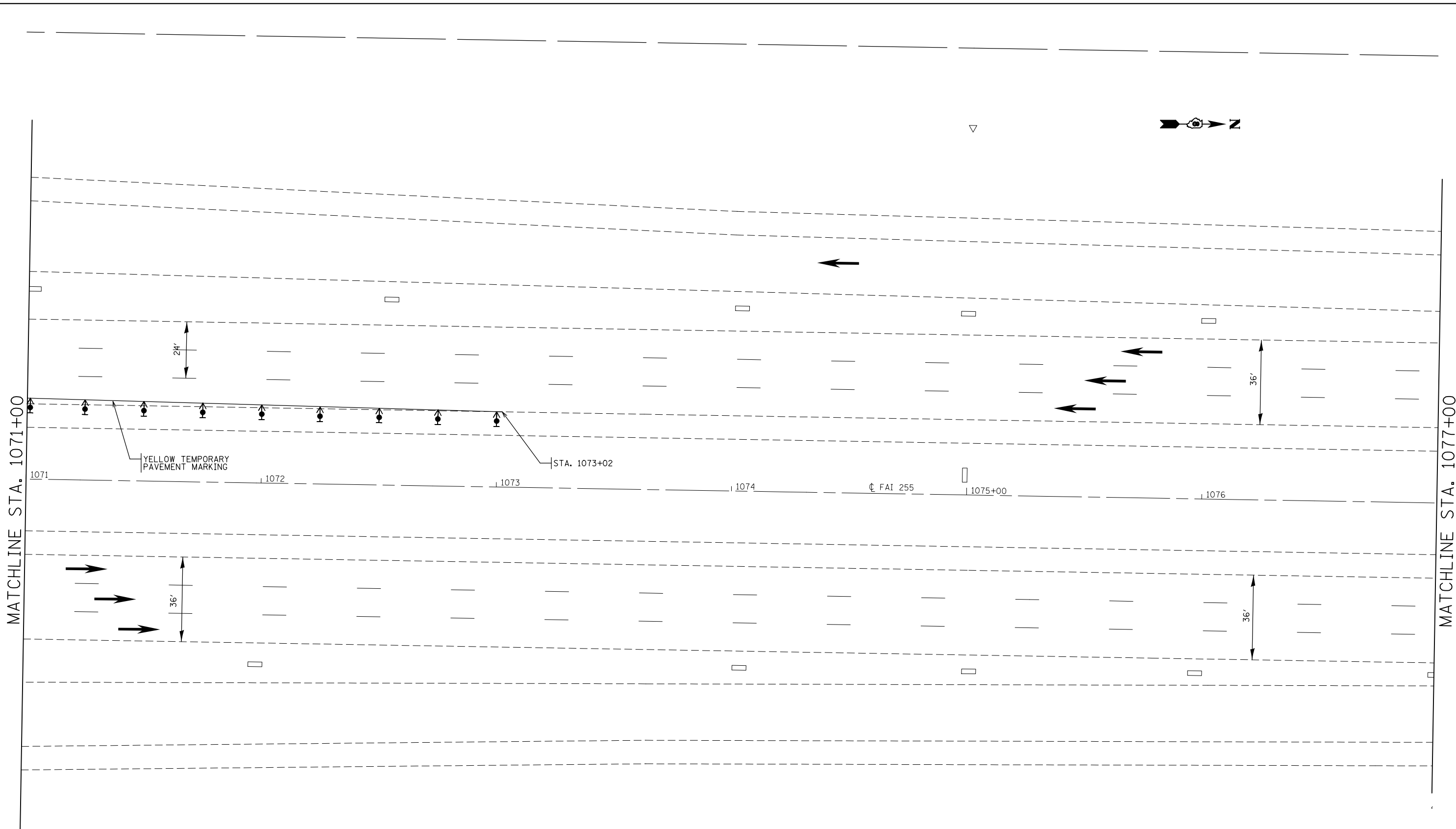
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	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 12/14/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUGGESTED STAGE CONSTRUCTION AND TRAFFIC CONTROL - STAGE II

SCALE: 20:1 SHEET NO. 17 OF 18 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-2HB-2-1	ST. CLAIR	54	31
CONTRACT NO. 76B21				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



FILE NAME =	USER NAME = owerbj	DESIGNED -	REVISED -
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	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 12/14/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUGGESTED STAGE CONSTRUCTION AND TRAFFIC CONTROL - STAGE II

SCALE: 20:1 SHEET NO. 18 OF 18 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-2HB-2-1	ST. CLAIR	54	32
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76B21	

INDEX OF SHEETS

1. General Plan & Elevation
2. General Details
- 3-6. Stage Construction Details
7. Temporary Concrete Barrier for Stage Construction
8. Slope Protection Details
9. Deck Slab Repair
- 10-11. South Bound Lanes - Superstructure Concrete Removal
- 12-13. North Bound Lanes - Superstructure Concrete Removal
- 14-15. South Bound Lanes - Superstructure Details
- 16-17. North Bound Lanes - Superstructure Details
18. Preformed Joint Strip Seal
- 19-20. Structural Steel Details
21. Abutment Repair Details
22. Bar Splicer Details

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu Yd	195.4		195.4
Concrete Superstructure	Cu Yd	208.0		208.0
Concrete Sealer	Sq Yd	1186		1186
Furnishing and Erecting Structural Steel	Pound	20810		20810
Reinforcement Bars, Epoxy Coated	Pound	58050		58050
Preformed Joint Strip Seal	Foot	477		477
Polymerized Hot-Mix Asphalt Surface Course, Mix "E", H90	Tons	949		949
Bar Splicers	Each	112		112
Waterproofing Membrane System	Sq Yd	8452		8452
Protective Shield	Sq Yd	6830		6830
Stone Riprap, Class A3	Sq Yd		95	95
Filter Fabric	Sq Yd		95	95
Structural Steel Removal	Pound	2980		2980
Deck Slab Repair (Partial)	Sq Yd	8.1		8.1
Deck Slab Repair (Full Depth Type I)	Sq Yd	0.5		0.5
Deck Slab Repair (Full Depth Type II)	Sq Yd	177.3		177.3
Structural Repair of Concrete (Depth Equal to or less than 5")	Sq Ft		64.0	64.0

* Concrete Sealer shall be applied to the top and inside vertical faces of the parapets and to both faces and top of Median barriers.

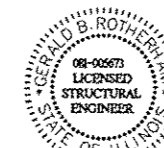
PROPOSED IMPROVEMENTS

1. Replace expansion joints at the abutments.
2. Elimination of existing longitudinal joints in deck of each structure.
3. Partial and full depth deck repair each structure.
4. Install HMA overlay and waterproofing membrane on deck of each structure.
5. Replace existing end cross frames designated CF6 between girder lines 7 and 8 SB structure and girder lines 21 and 22 NB structure.
6. Install cross frames entire length of structures between girder lines 7 and 8 SB structure and girder lines 21 and 22 NB structure.
7. Seal existing parapets and concrete median.
8. Place riprap at south abutments adjacent to existing concrete slope walls.
9. Structural concrete repair at corners of each abutment.

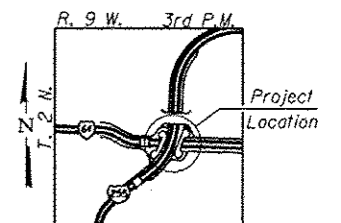
Note:
See Sheet 2 of 22 for Limits of Protective Shield.

DESIGN STRESSES

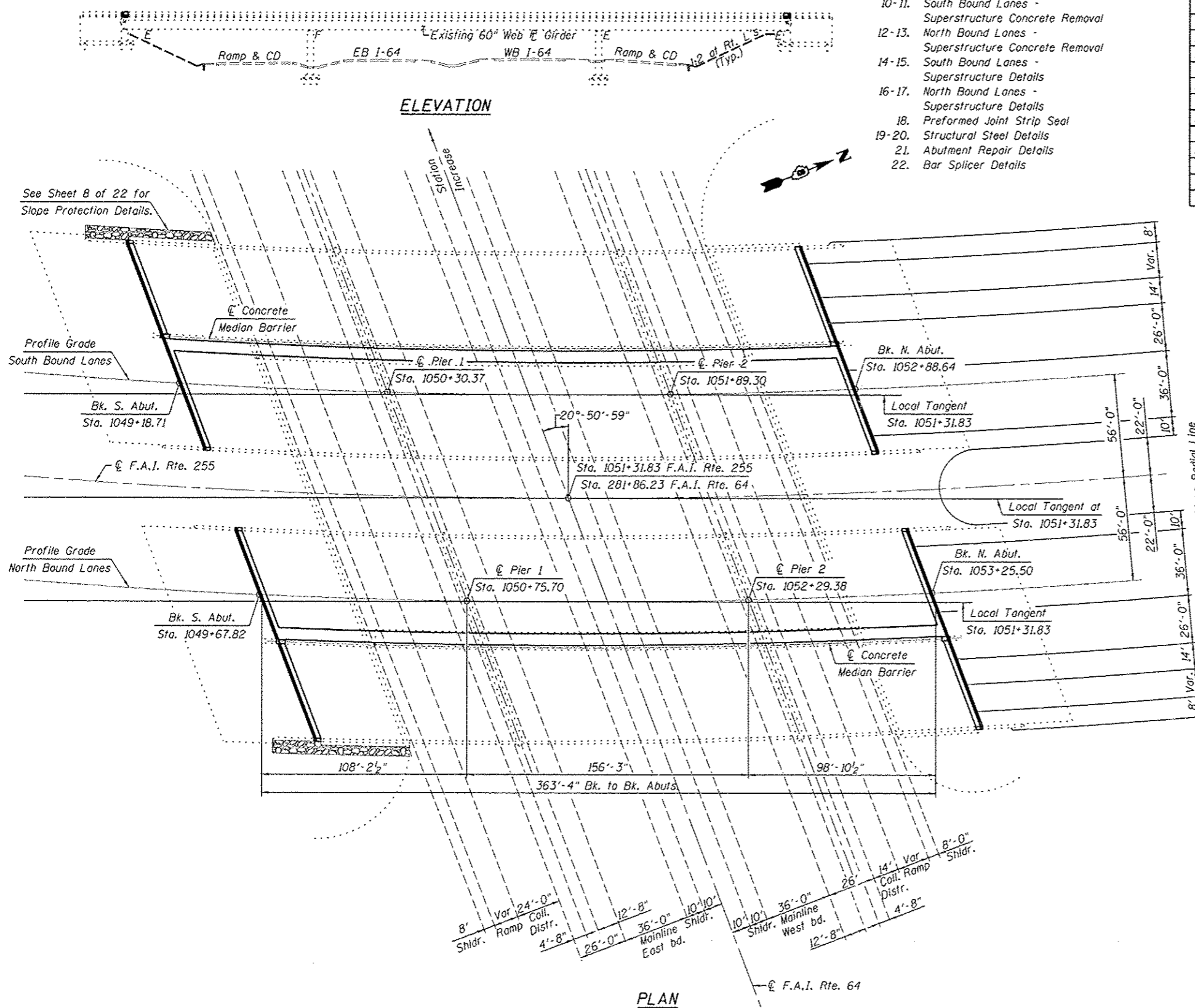
FIELD UNITS (NEW CONSTRUCTION)
 f'c = 3,500 psi
 fy = 60,000 psi (reinforcement)
 fy = 36,000 psi (M 270 Grade 36)



Gerald B. Rothman
 Expires 11/30/2014
 Date: 2/20/2013



LOCATION SKETCH



PLAN

GENERAL PLAN & ELEVATION
 I-255 OVER I-64
 F.A.I. ROUTE 255-SEC. 82-2HB-2-1
 ST. CLAIR COUNTY
 STA. 1051+31.83
 S.N. 082-0241 (NB) & S.N. 082-0242 (SB)

FILE NAME #	USER NAME	DESIGNED	REVISED	<p>Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL. Design Firm No. 184-001907</p>	<p>GENERAL PLAN & ELEVATION</p> <p>SHEET NO. 1 OF 22 SHEETS</p>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE #	CHECKED	REVISED	255			82-2HB-2-1	ST. CLAIR	54	33	
PLOT DATE	DRAWN	REVISED								
	CHECKED	REVISED								
						ILLINOIS FED. AID PROJECT		CONTRACT NO. 76B21		

GENERAL NOTES

Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts 7/8" φ, holes 15/16" φ, unless otherwise noted.

No field welding is permitted except as specified in the contract documents.

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.

As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer.

Any cracks that cannot be removed by grinding 1/4 inch deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

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.

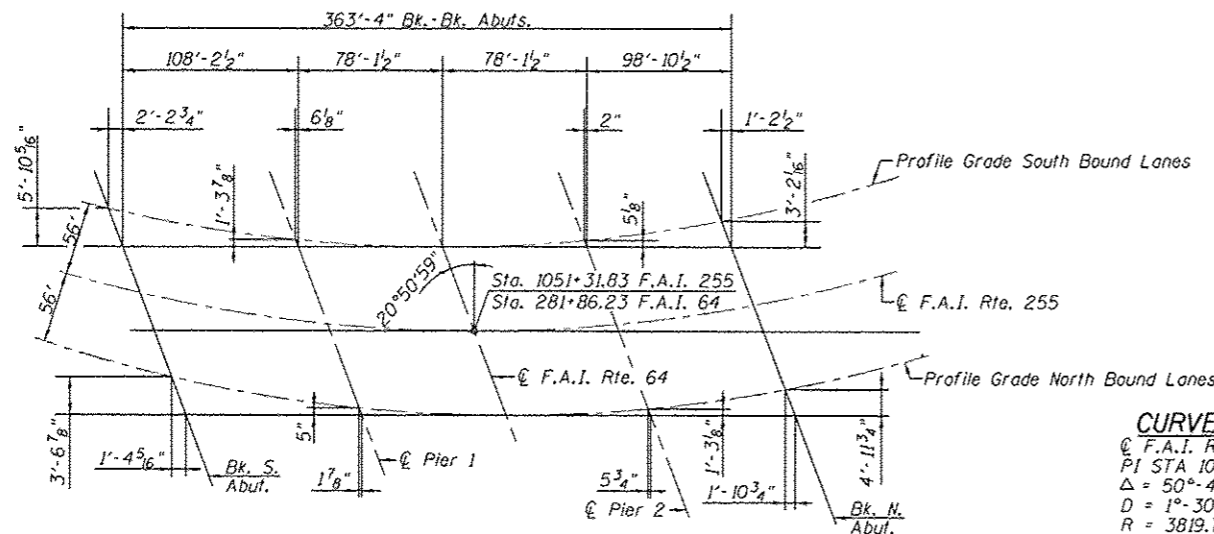
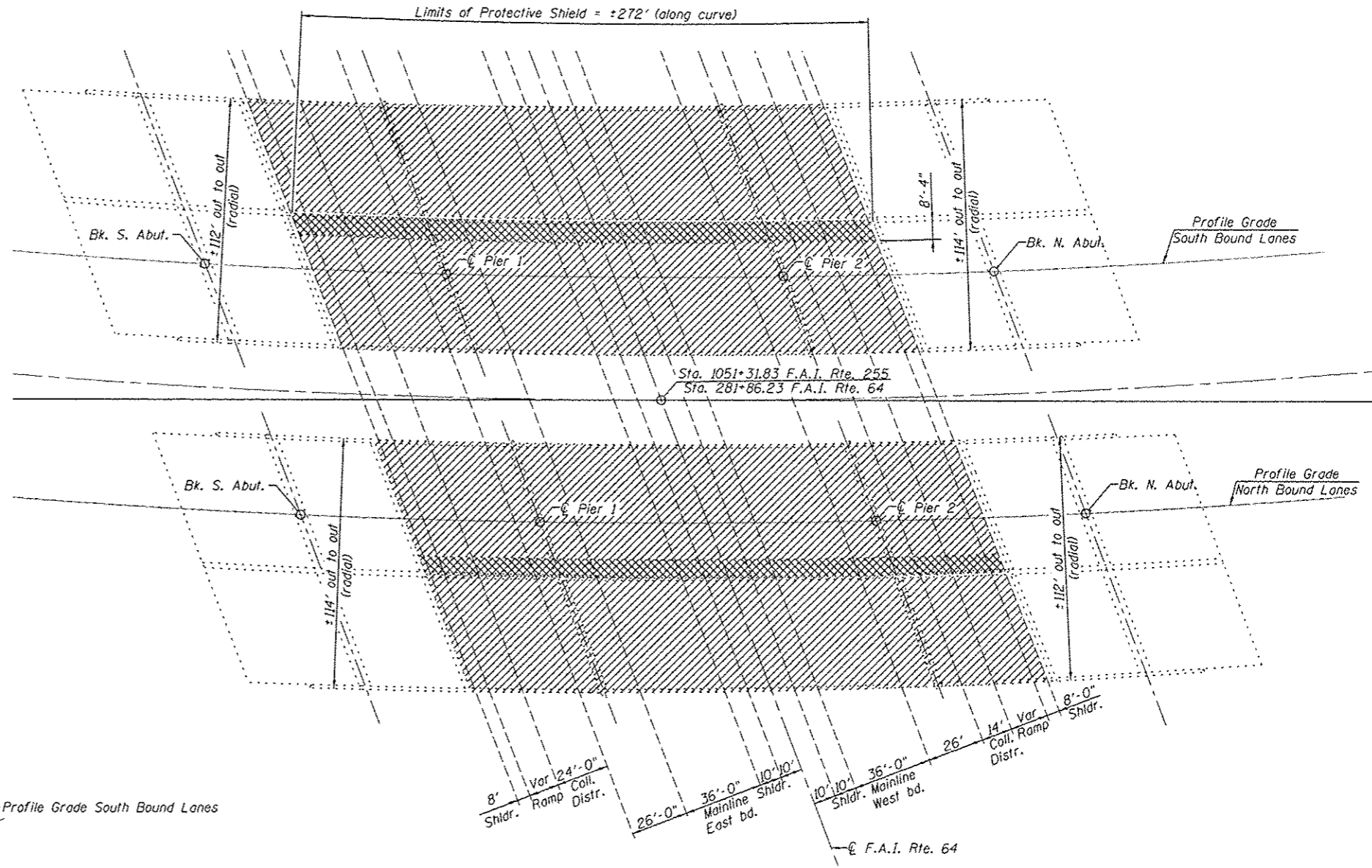
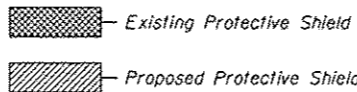
The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

The Organic Zinc Rich Primer / Epoxy / Urethane paint system shall be used for painting of new structural steel except where otherwise noted. The entire system shall be shop applied, with the exception of masked off connection surfaces and field installed fasteners, all of which shall be touched up and finish coated in the field. The color of the final finish coat for all steel surfaces shall be Reddish Brown, Munsell No. 2.5YR 3/4. See Special Provision for "Cleaning and Painting New Metal Structures."

Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures."

Reinforcement Bars designated (E) shall be epoxy coated. Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50° F.

Existing reinforcement bars extending into removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.



OFFSET SKETCH

CURVE DATA

@ F.A.I. Rte. 255
 PI STA 1049+50.74
 Δ = 50°-46'-24"
 D = 1°-30'-00"
 R = 3819.72'
 T = 1812.65'
 L = 3384.89'
 E = 408.28'
 SE = 0.043 ' / '
 SA = STA 1029+78.09
 TO STA 1032+18.09
 STA 1066+82.98
 TO STA 1064+42.98

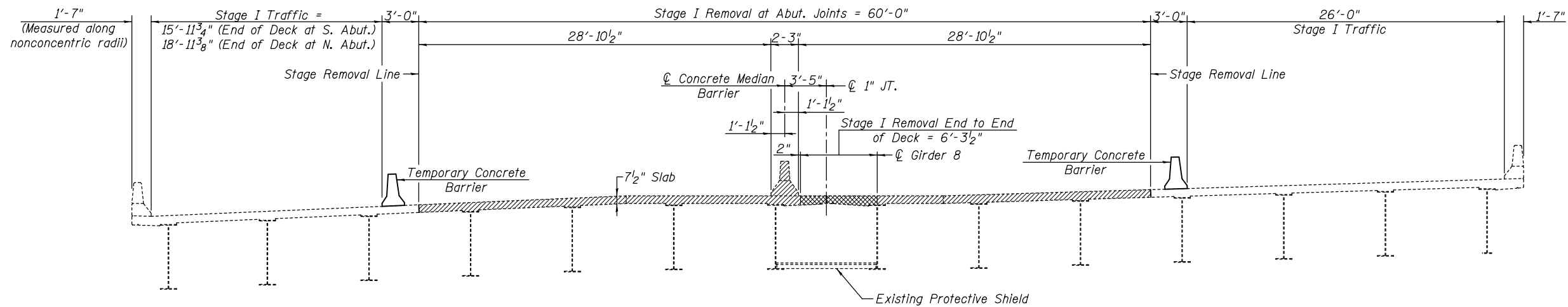
Note: Existing protective shield shall be inspected by the Engineer prior to removal of concrete. Any damaged or deteriorated protective shield shall be repaired or replaced to the satisfaction of the Engineer. Cost included with Protective Shield.

PROTECTIVE SHIELD



GENERAL DETAILS
S.N. 082-0241 (NB) & S.N. 082-0242 (SB)

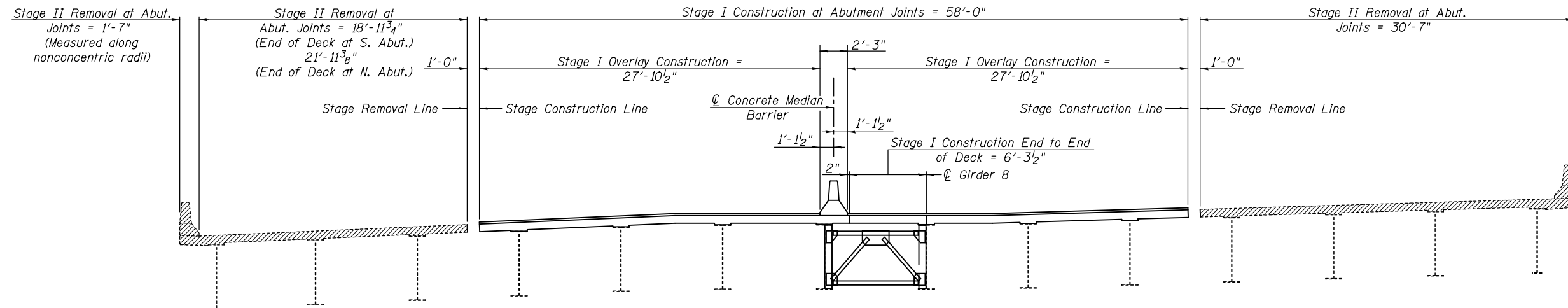
FILE NAME :	USER NAME :	DESIGNED :	REVISED :	Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	GENERAL DETAILS SHEET NO. 2 OF 22 SHEETS	F.A.I. RTE.:	SECTION:	COUNTY:	TOTAL SHEETS:	SHEET NO.:
PLOT SCALE :	CHECKED :	REVISED :	255			82-2HB-2-1	ST. CLAIR	54	34	
PLOT DATE :	DRAWN :	REVISED :								
	CHECKED :	REVISED :								CONTRACT NO. 76B21

CROSS SECTIONS LOCATED AT ABUTMENT JOINTS



STAGE I REMOVAL & STAGE I TRAFFIC
(Southbound - Looking North)


 Concrete Removal End to End of deck and at Abutment Joints
 Concrete Removal at Abutment Joints



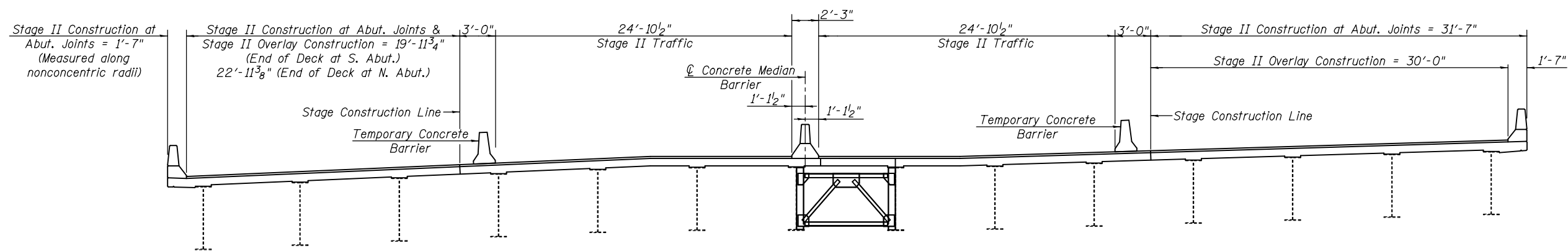
STAGE I CONSTRUCTION & STAGE II REMOVAL
(Southbound - Looking North)

Note: All transverse dimensions are measured along the radii of F.A.I. Rt. 255 curves except as noted.
For quantity of temporary concrete barrier, see Roadway Plans.
For details of temporary concrete barrier, see Sheets 7 of 22.
Staging is for information only.
Coordinate with roadway staging.

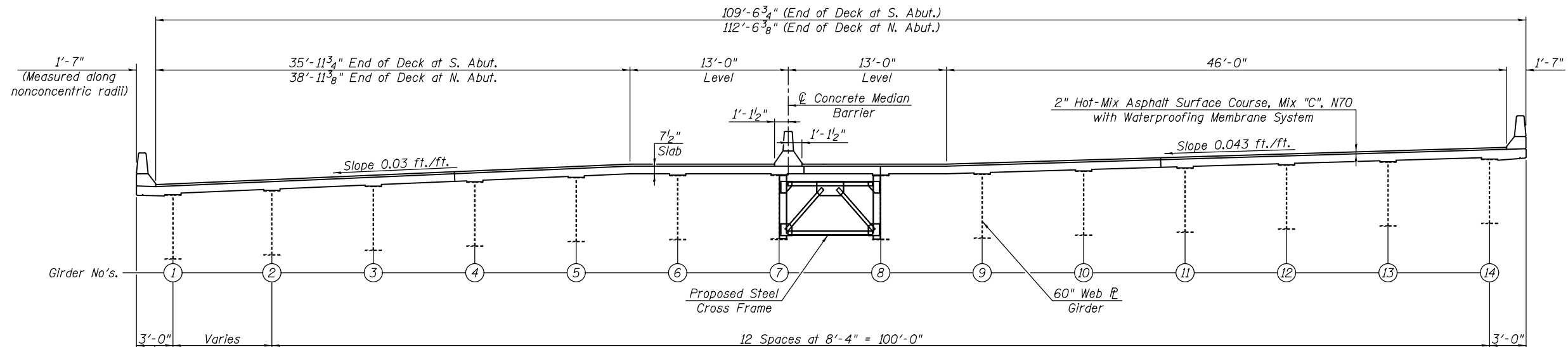
STAGE CONSTRUCTION DETAILS
SOUTH BOUND LANES
S.N. 082-0241 (NB) & S.N. 082-0242 (SB)

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	 Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	STAGE CONSTRUCTION DETAILS SHEET NO. 3 OF 22 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		CHECKED -	REVISED -			255	82-2HB-2-1	ST. CLAIR	54	35	
PLOT SCALE =		DRAWN -	REVISED -			CONTRACT NO. 76B21					
PLOT DATE =		CHECKED -	REVISED -			ILLINOIS FED. AID PROJECT					

CROSS SECTIONS LOCATED AT ABUTMENT JOINTS




STAGE II CONSTRUCTION & STAGE II TRAFFIC
(Southbound - Looking North)



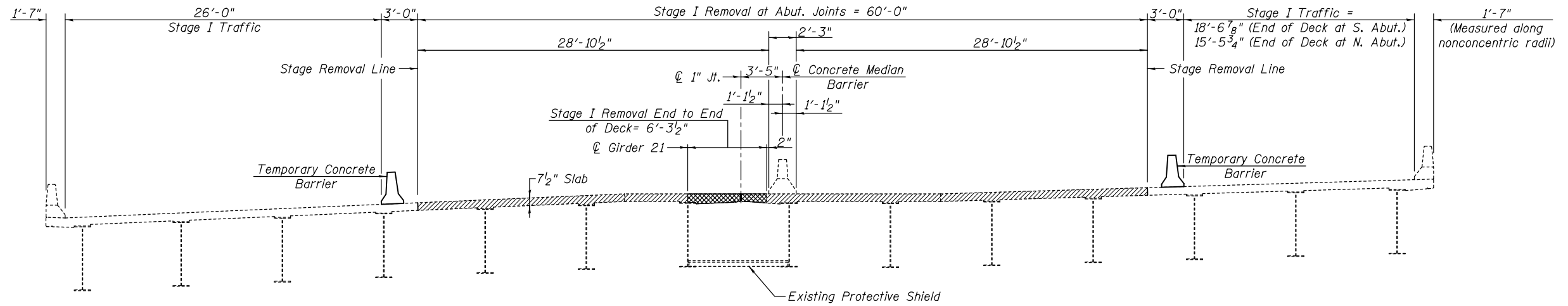
PROPOSED CROSS SECTION
(Southbound - Looking North)

Note: All transverse dimensions are measured along the radii of F.A.I. Rt. 255 curves except as noted.
For quantity of temporary concrete barrier, see Roadway Plans.
For details of temporary concrete barrier, see Sheets 7 of 22.
Staging is for information only.
Coordinate with roadway staging.

STAGE CONSTRUCTION DETAILS
SOUTH BOUND LANES
S.N. 082-0241 (NB) & S.N. 082-0242 (SB)

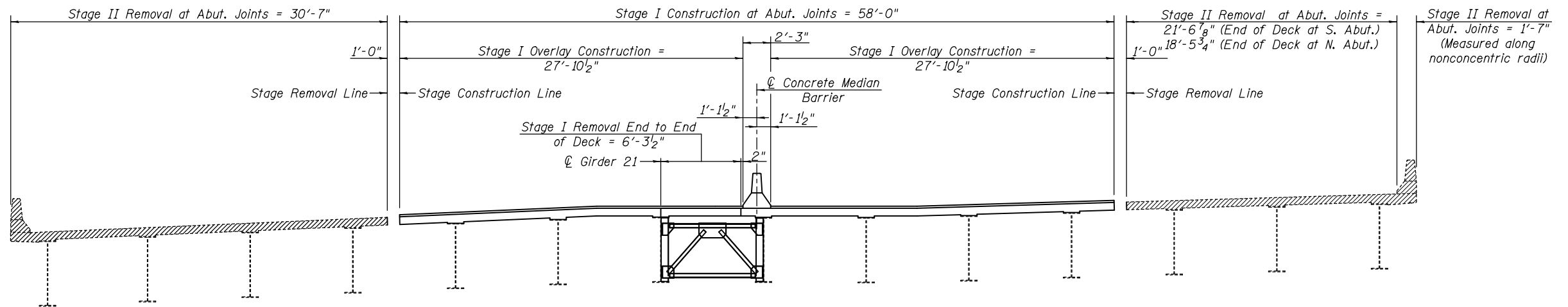
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PLOT DATE =		CHECKED -	REVISED -			SHEET NO. 4 OF 22 SHEETS		ILLINOIS FED. AID PROJECT		

CROSS SECTIONS LOCATED AT ABUTMENT JOINTS



STAGE I REMOVAL & STAGE I TRAFFIC
(Northbound - Looking North)

- Concrete Removal End to End of Deck and at Abutment Joints
- Concrete Removal at Abutment Joints



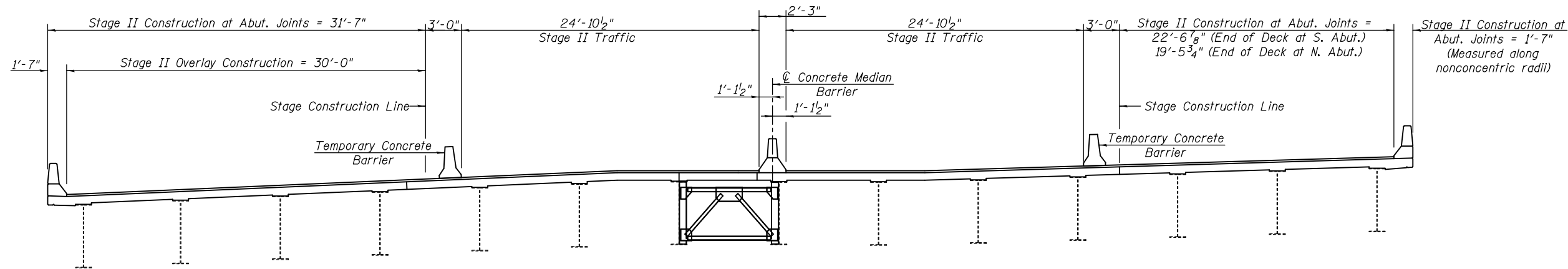
STAGE I CONSTRUCTION & STAGE II REMOVAL
(Northbound - Looking North)

Note: All transverse dimensions are measured along the radii of F.A.I. Rt. 255 curves except as noted.
For quantity of temporary concrete barrier, see Roadway Plans.
For details of temporary concrete barrier, see Sheets 7 of 22.
Staging is for information only.
Coordinate with roadway staging.

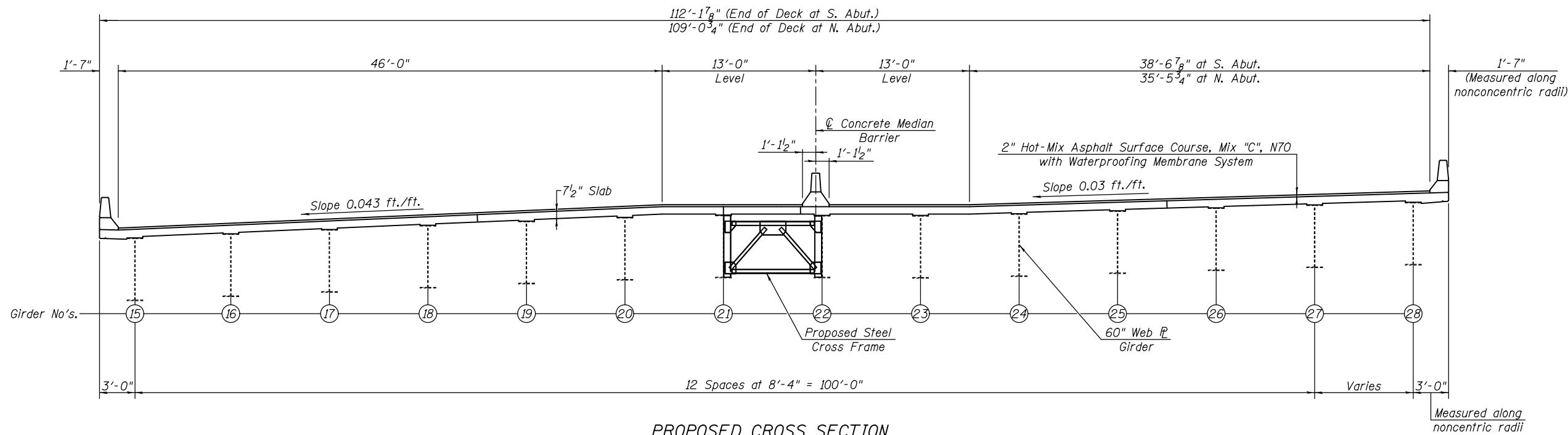
STAGE CONSTRUCTION DETAILS
NORTH BOUND LANES
S.N. 082-0241 (NB) & S.N. 082-0242 (SB)

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	STAGE CONSTRUCTION DETAILS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED -	REVISED -			255	82-2HB-2-1	ST. CLAIR	54	37
PLOT DATE =	DRAWN -	REVISED -	REVISED -	SHEET NO. 5 OF 22 SHEETS		CONTRACT NO. 76B21				
	CHECKED -	REVISED -	REVISED -	ILLINOIS FED. AID PROJECT						

CROSS SECTIONS LOCATED AT ABUTMENT JOINTS



STAGE II CONSTRUCTION & STAGE II TRAFFIC
 (Northbound - Looking North)



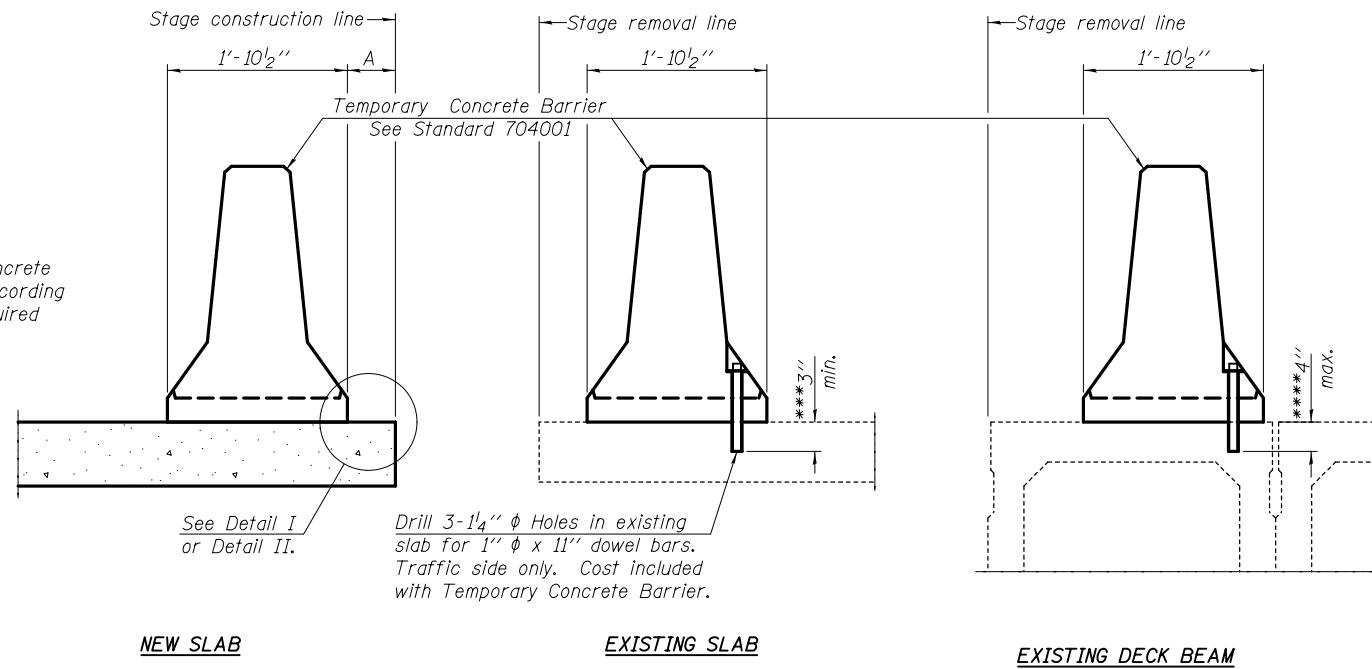
PROPOSED CROSS SECTION
 (Northbound - Looking North)

Note: All transverse dimensions are measured along the radii of F.A.I. Rt. 255 curves except as noted.
 For quantity of temporary concrete barrier, see Roadway Plans.
 For details of temporary concrete barrier, see Sheets 7 of 22.
 Staging is for information only.
 Coordinate with roadway staging.

STAGE CONSTRUCTION DETAILS
 NORTH BOUND LANES
 S.N. 082-0241 (NB) & S.N. 082-0242 (SB)

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	<p>Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907</p>	<p>STAGE CONSTRUCTION DETAILS</p> <p>SHEET NO. 6 OF 22 SHEETS</p>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		CHECKED -	REVISED -			255	82-2HB-2-1	ST. CLAIR	54	38	
PLOT SCALE =		DRAWN -	REVISED -			CONTRACT NO. 76B21					
PLOT DATE =		CHECKED -	REVISED -			ILLINOIS FED. AID PROJECT					

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



SECTIONS THRU SLAB OR DECK BEAM

NOTES

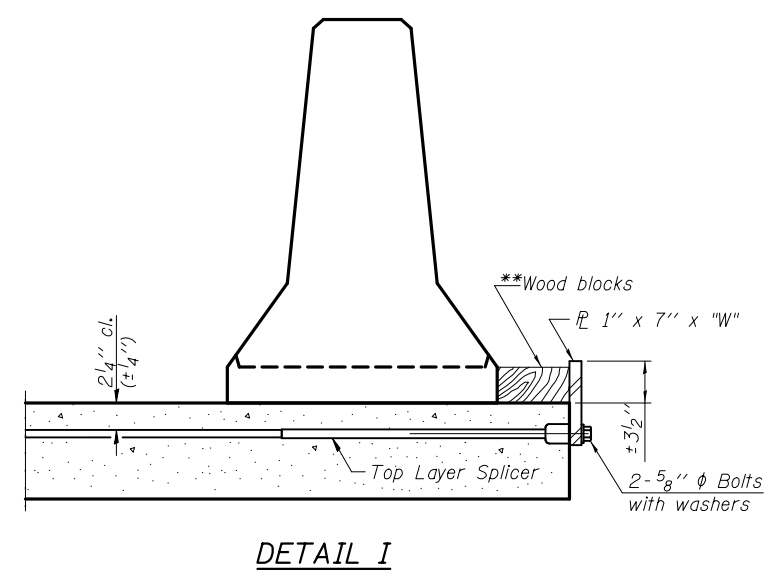
Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x "W" steel PL to the top layer of couplers with 2-5/8" φ bolts screwed to coupler at approximate C of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1" x 7" x "W" steel PL to the concrete slab or concrete wearing surface with 2-5/8" φ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate C of each barrier panel.

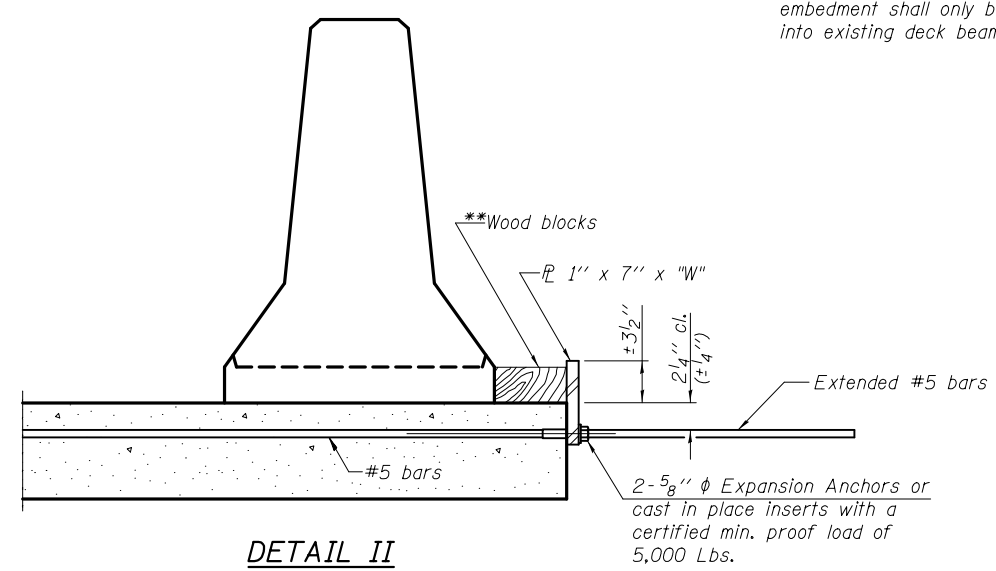
Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

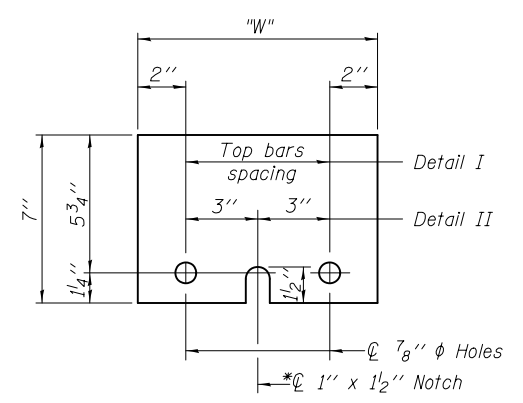
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER PL 1" x 7" x "W"
* Required only with Detail II

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

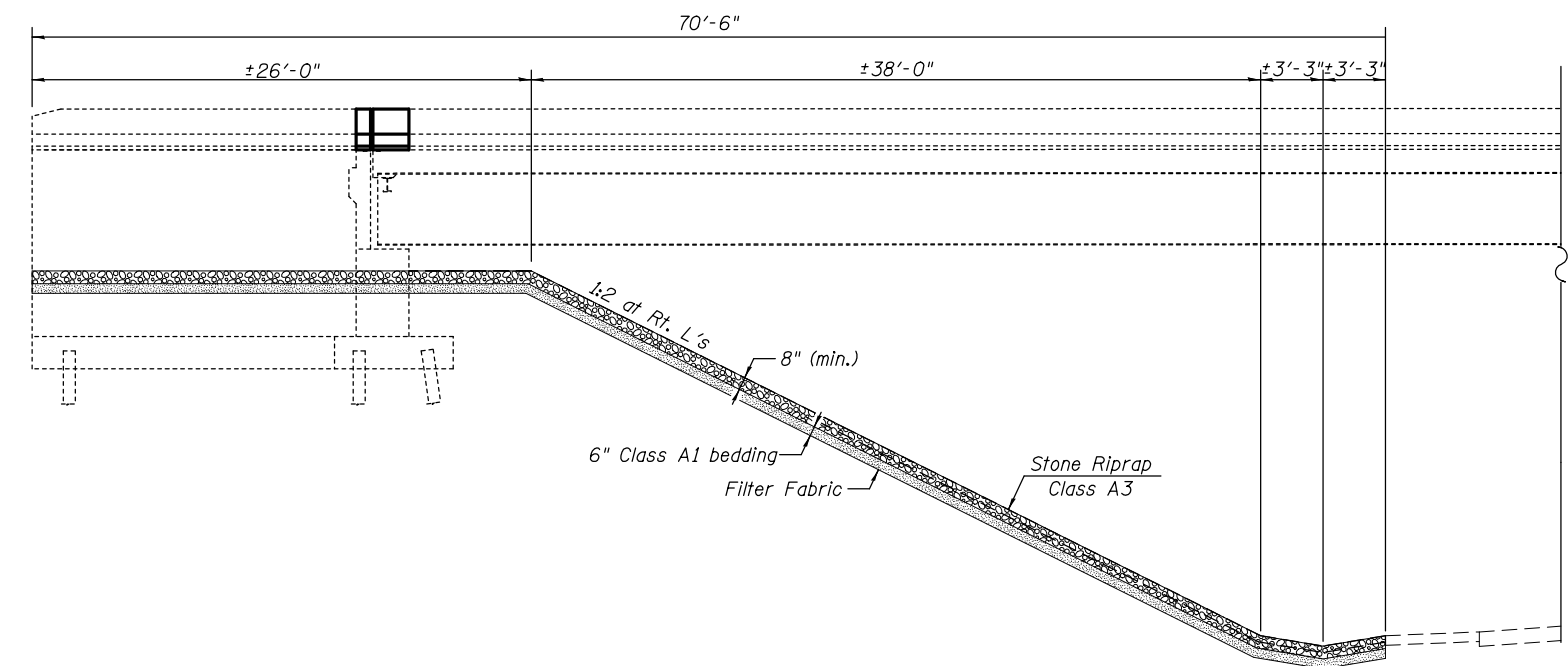
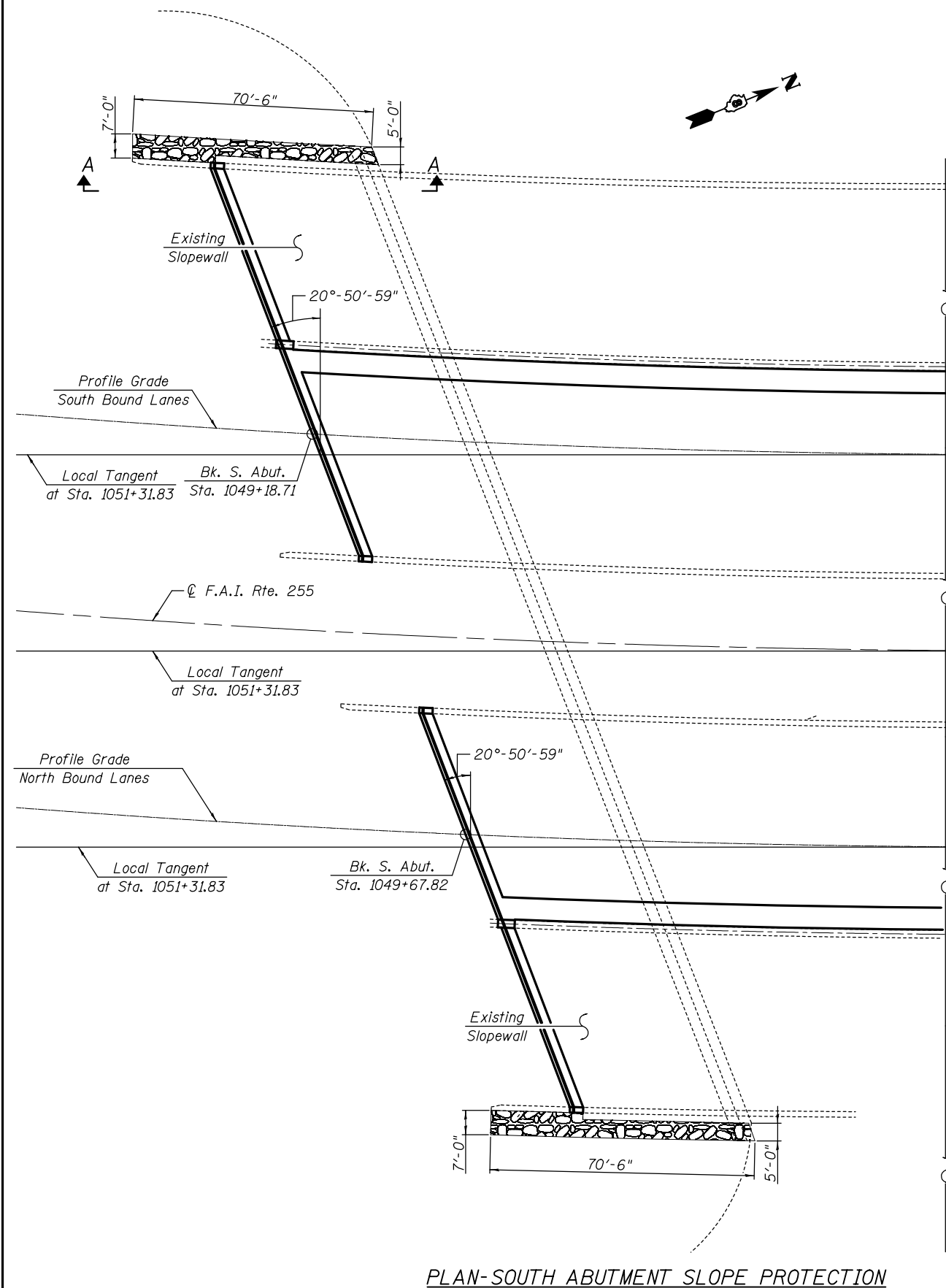
"W" = Top bars spacing + 4"

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
S.N. 082-0241 (NB) & S.N. 082-0242 (SB)

R-27

7-1-10

FILE NAME =	USER NAME =	DESIGNED -	REVISD -	<p>Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907</p>	<p>TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION</p> <p>STRUCTURE NO.</p> <p>SHEET NO. 7 OF 22 SHEETS</p>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISD -			255	82-2HB-2-1	ST. CLAIR	54	39
PLOT SCALE =	DRAWN -	REVISD -	REVISD -			CONTRACT NO. 76B21				
PLOT DATE =	CHECKED -	REVISD -	REVISD -			ILLINOIS FED. AID PROJECT				



BILL OF MATERIAL

Item	Unit	Total
Stone Riprap, Class A3	Sq. Yd.	95
Filter Fabric	Sq. Yd.	95

SLOPE PROTECTION DETAILS
S.N. 082-0241 (NB) & S.N. 082-0242 (SB)

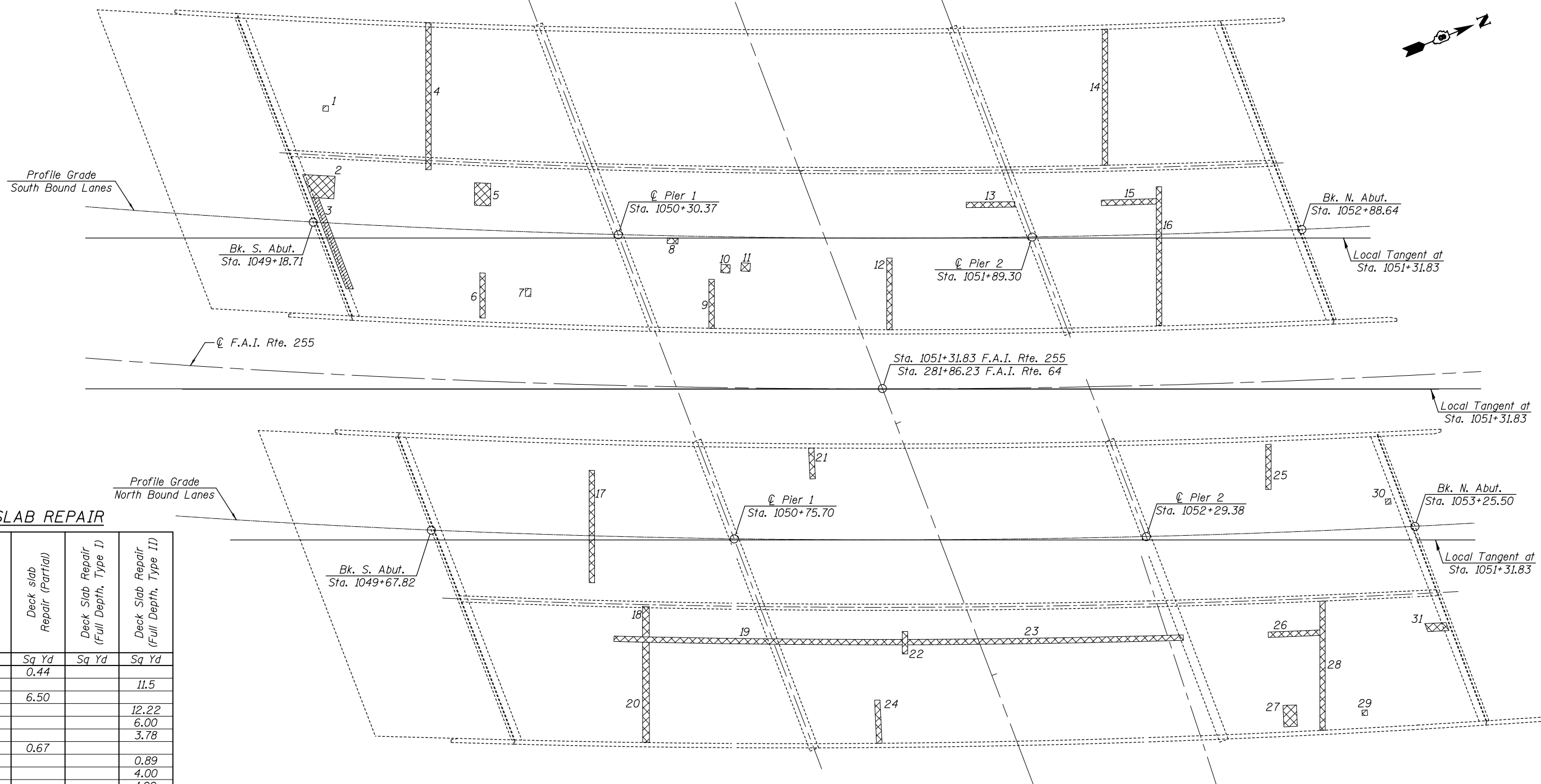
FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

Allen Henderson & Associates, Inc.
Civil and Structural Engineers Springfield, IL
62703 Phone: (217)544-8033 IL Design Firm
No. 184-001907

SLOPE PROTECTION DETAILS

SHEET NO. 8 OF 22 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-2HB-2-1	ST. CLAIR	54	40
CONTRACT NO. 76B21				
ILLINOIS FED. AID PROJECT				



DECK SLAB REPAIR

Patch No.	Size	Deck Slab Repair (Partial)	Deck Slab Repair (Full Depth, Type I)	Deck Slab Repair (Full Depth, Type II)
	Ft x Ft	Sq Yd	Sq Yd	Sq Yd
1	2.0 x 2.0	0.44		
2	9.0 x 11.5			11.5
3	1.5 x 39.0	6.50		
4	2.0 x 55.0			12.22
5	6.0 x 9.0			6.00
6	2.0 x 17.0			3.78
7	2.0 x 3.0	0.67		
8	2.0 x 4.0			0.89
9	2.0 x 18.0			4.00
10	3.0 x 3.0			1.00
11	3.0 x 3.0			1.00
12	2.0 x 28.0			6.22
13	2.0 x 18.0			4.00
14	2.0 x 51.0			11.33
15	2.0 x 20.0			4.44
16	2.0 x 52.0			11.56
17	2.0 x 42.0			9.33
18	2.0 x 11.0			2.44
19	2.0 x 107.0			23.78
20	2.0 x 37.0			8.22
21	2.0 x 12.0			2.67
22	2.0 x 9.0			2.00
23	2.0 x 102.0			22.67
24	2.0 x 18.0			4.00
25	2.0 x 17.0			3.78
26	2.0 x 19.0			4.22
27	5.0 x 8.0			4.44
28	2.0 x 48.0			10.67
29	2.0 x 2.0		0.44	
30	2.0 x 2.0	0.44		
31	3.0 x 3.5			1.12

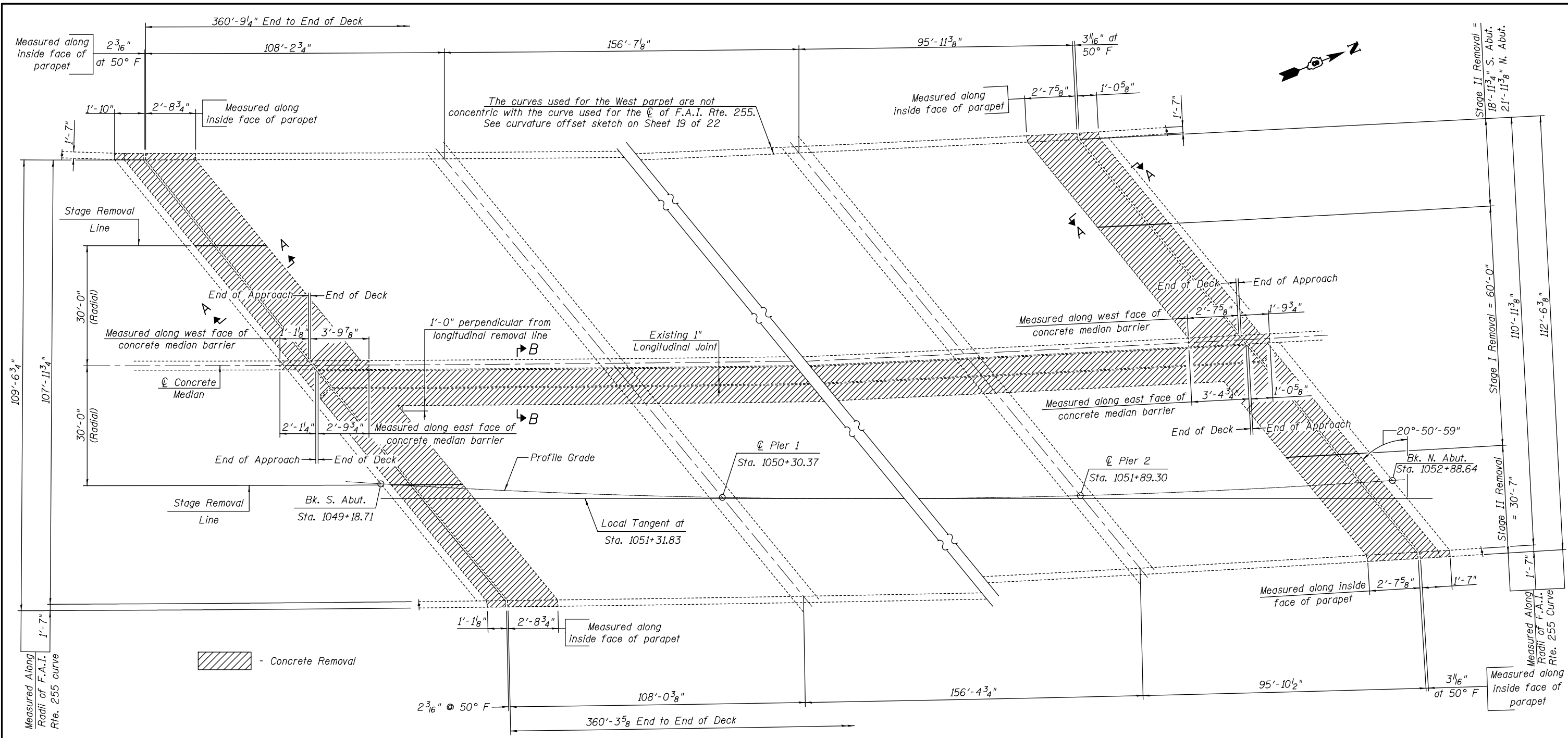
LEGEND
 Deck Slab Repair (Full depth)
 Deck Slab Repair (Partial depth)

TOTAL BILL OF MATERIAL

Item	Unit	Quantity
Deck Slab Repair (Partial)	Sq. Yd.	8.1
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	0.5
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	177.3

Notes: Areas of deck slab repair shown are estimated. The engineer shall record the actual deck slab repair areas in the "As Built" plans.

DECK SLAB REPAIR
 S.N. 082-0241 (NB) & S.N. 0242 (SB)



EXISTING PARTIAL PLAN

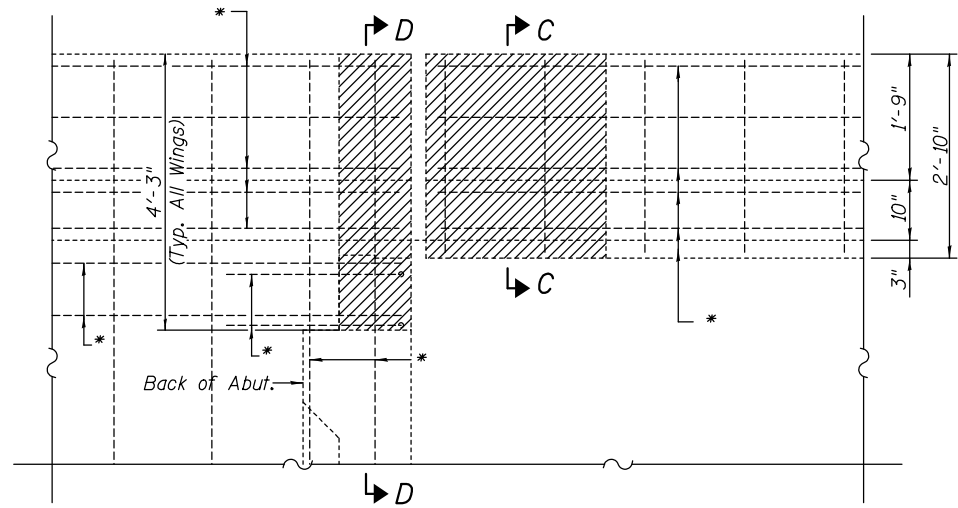
NOTES

Removal of existing expansion joint and associated material shall not be paid for separately but shall be included in the cost of Concrete Removal.
 Trim existing reinforcement to accommodate proposed expansion joint.
 See Sheet 11 of 22 for sections and view details.
 Stud Shear connectors damaged during concrete removal operations shall be removed and replaced per section 505 of the Standard Specifications. Cost included with Concrete Removal.

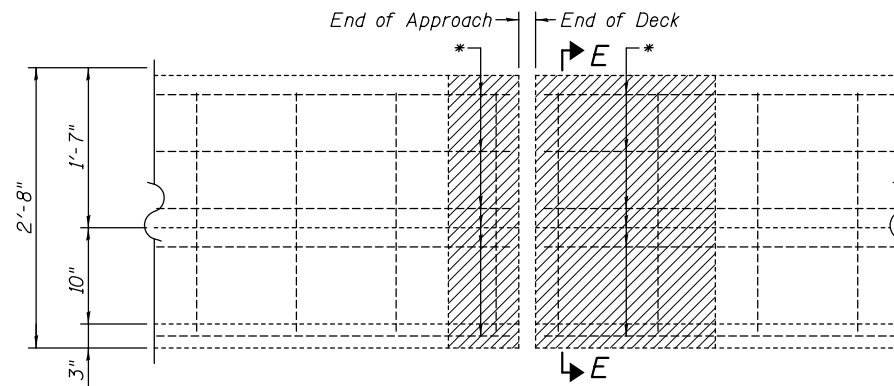
BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu. Yd.	98.1

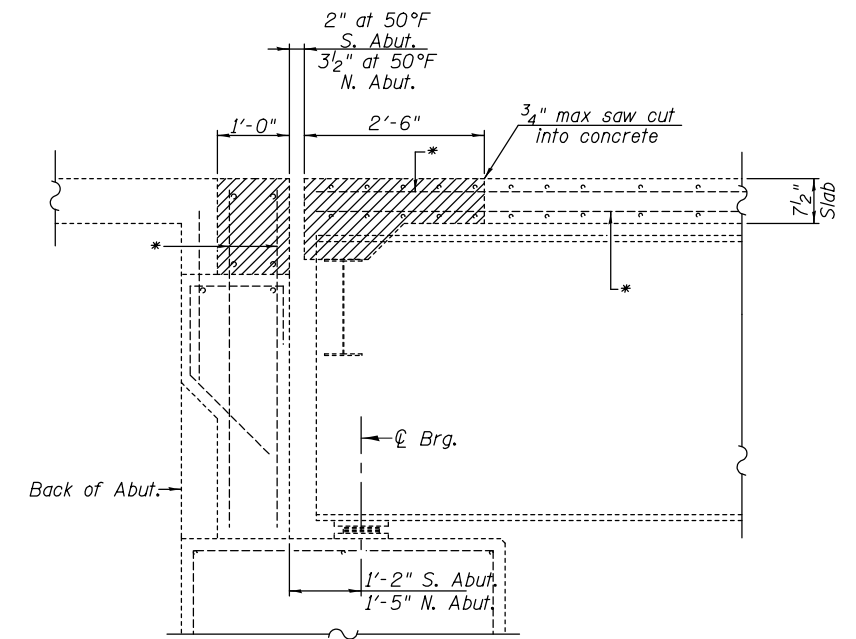
**SOUTH BOUND LANES -
 SUPERSTRUCTURE CONCRETE REMOVAL
 S.N.082-0241 (NB) & S.N. 082-0242 (SB)**



ELEVATION AT PARAPET & WINGWALL
(Showing Inside Face)

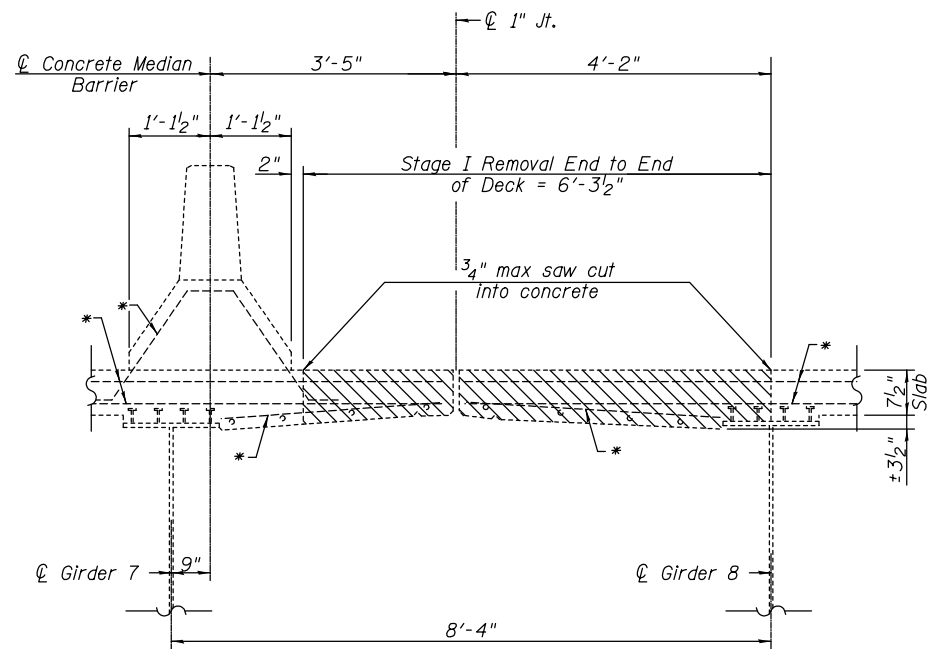


ELEVATION AT CONCRETE MEDIAN

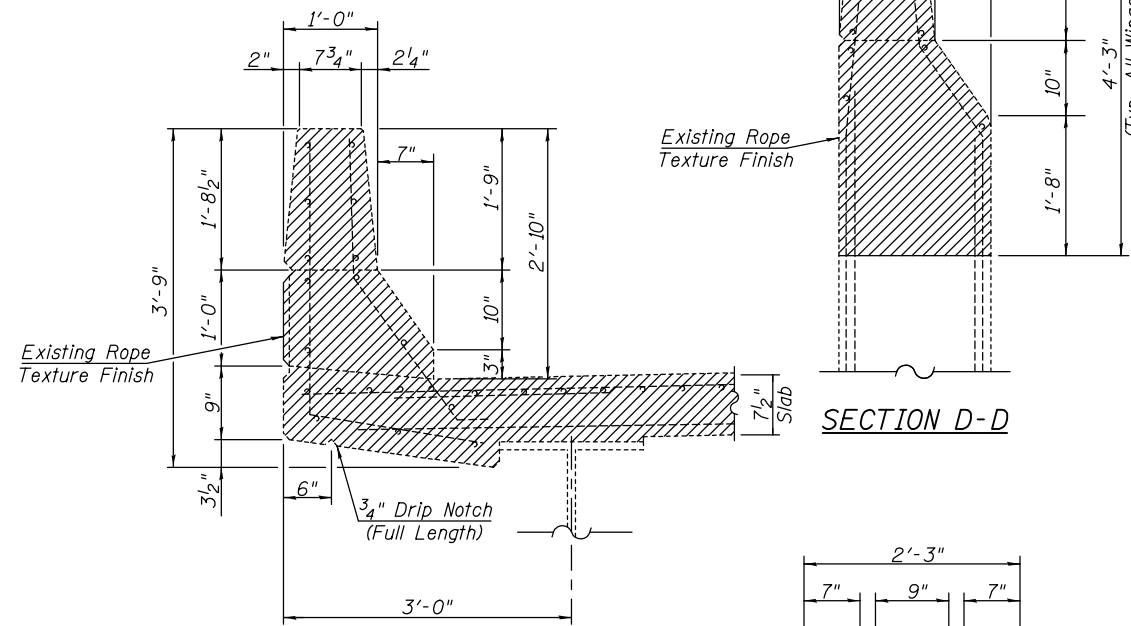


SECTION A-A
(Horiz. dim. at Rt. L's)

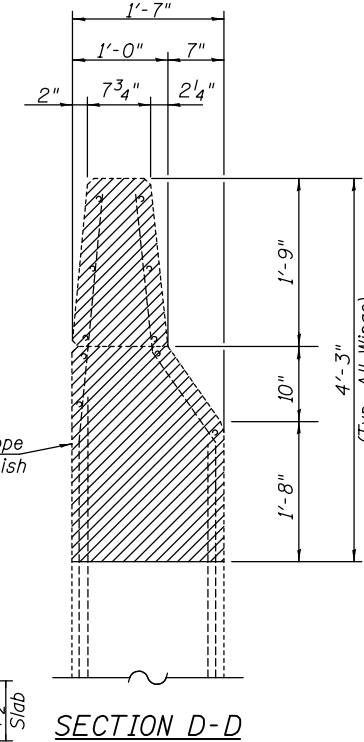
- Concrete Removal



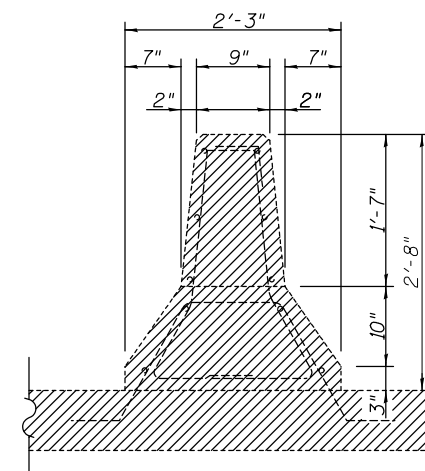
SECTION B-B



SECTION C-C



SECTION D-D



SECTION E-E

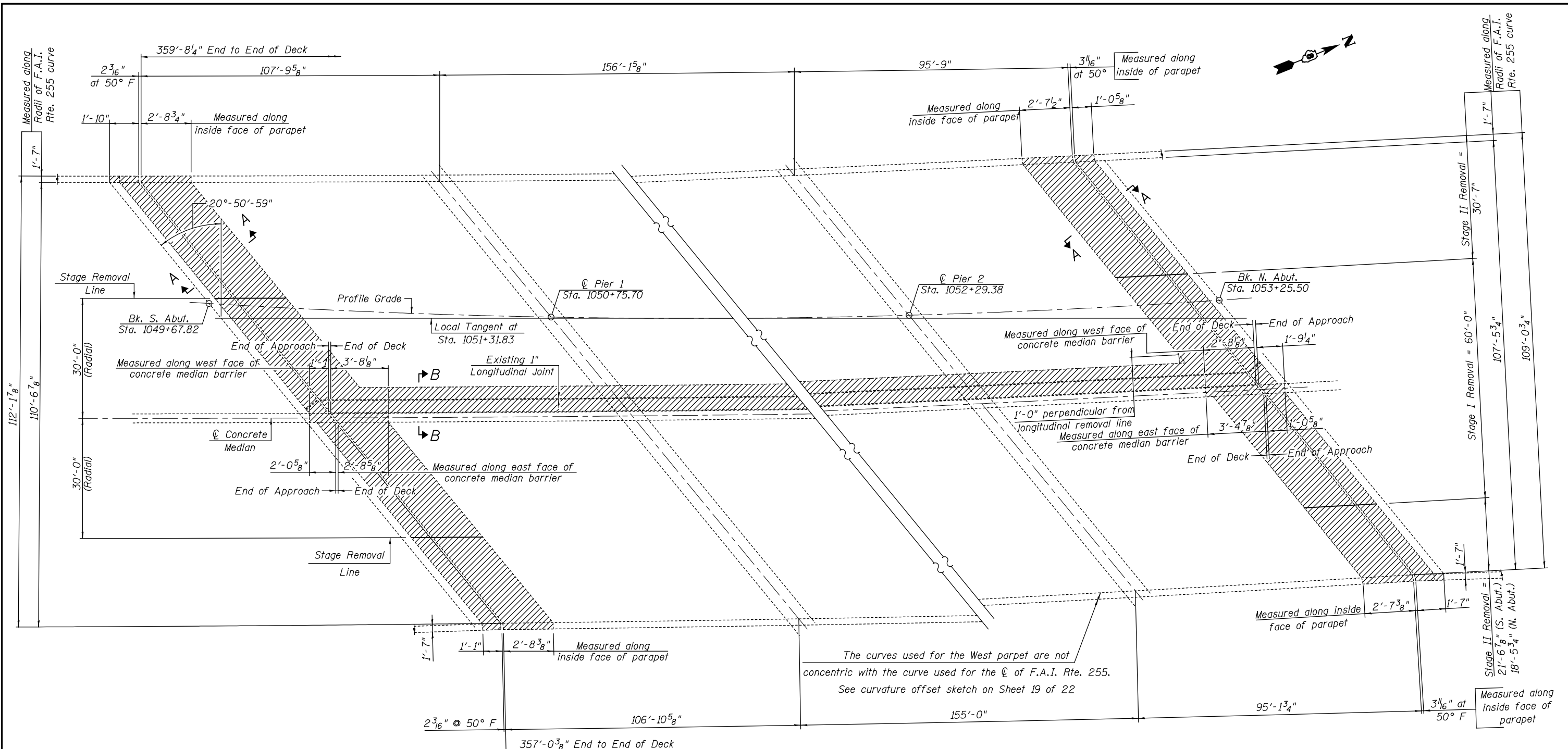
* Existing reinforcement to remain.

NOTES

- Removal of existing expansion joint and associated material shall not be paid for separately but shall be included in the cost of Concrete Removal.
- Trim existing reinforcement to accommodate proposed expansion joint.
- Stud Shear Connectors damaged during concrete removal operations shall be removed and replaced per Section 505 of the Standard Specifications. Cost included with Concrete Removal.

**SOUTH BOUND LANES -
SUPERSTRUCTURE CONCRETE REMOVAL DETAILS**
S.N. 082-0241 (NB) & S.N. 082-0242 (SB)

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	SOUTH BOUND LANES - SUPERSTRUCTURE CONCRETE REMOVAL DETAILS		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED -				255	82-2HB-2-1	ST. CLAIR	54	43
		PLOT SCALE =	REVISED -				CONTRACT NO. 76B21				
		PLOT DATE =	REVISED -				SHEET NO. 11 OF 22 SHEETS				
ILLINOIS FED. AID PROJECT											



EXISTING PARTIAL PLAN

NOTES

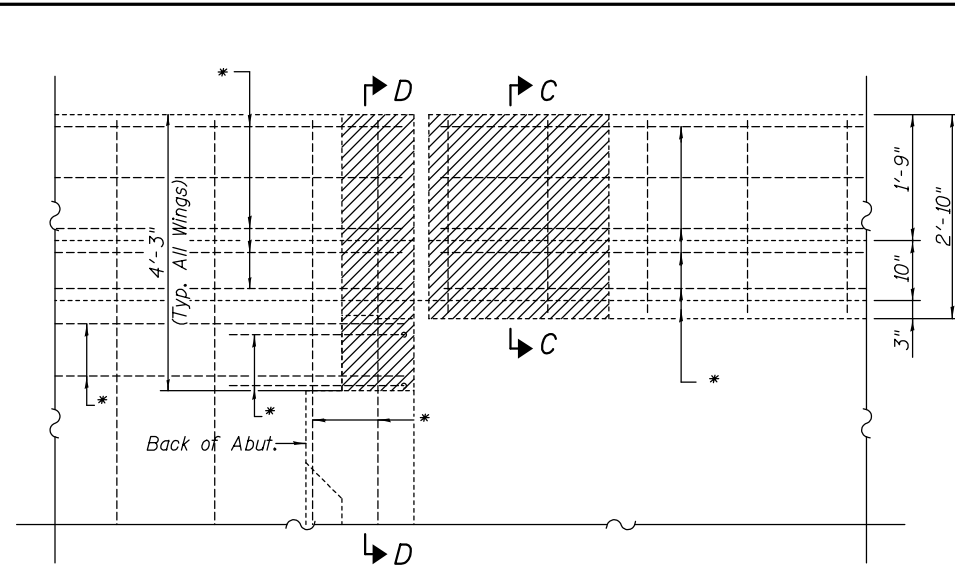
Removal of existing expansion joint and associated material shall not be paid for separately but shall be included in the cost of Concrete Removal.
 Trim existing reinforcement to accommodate proposed expansion joint.
 See sheet 13 of 22 for section and view details.
 Stud Shear Connectors damaged during concrete removal operations shall be removed and replaced per section 505 of the Standard Specifications. Cost included with Concrete Removal.

- Concrete Removal

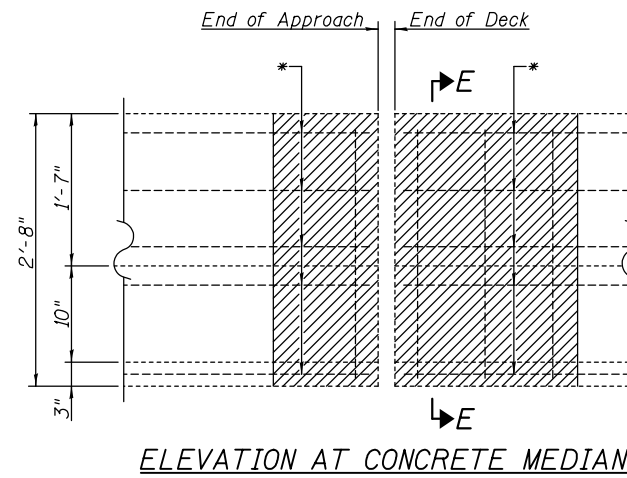
BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu. Yd.	97.3

**NORTH BOUND LANES -
 SUPERSTRUCTURE CONCRETE REMOVAL
 S.N. 082-0241 (NB) & S.N. 082-0242 (SB)**

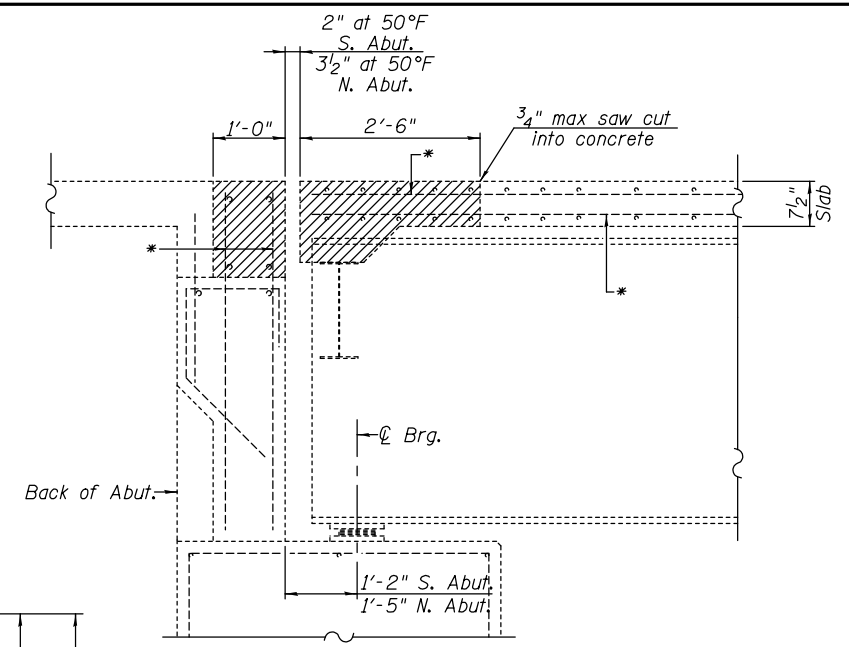


ELEVATION AT PARAPET & WINGWALL
(Showing Inside Face)

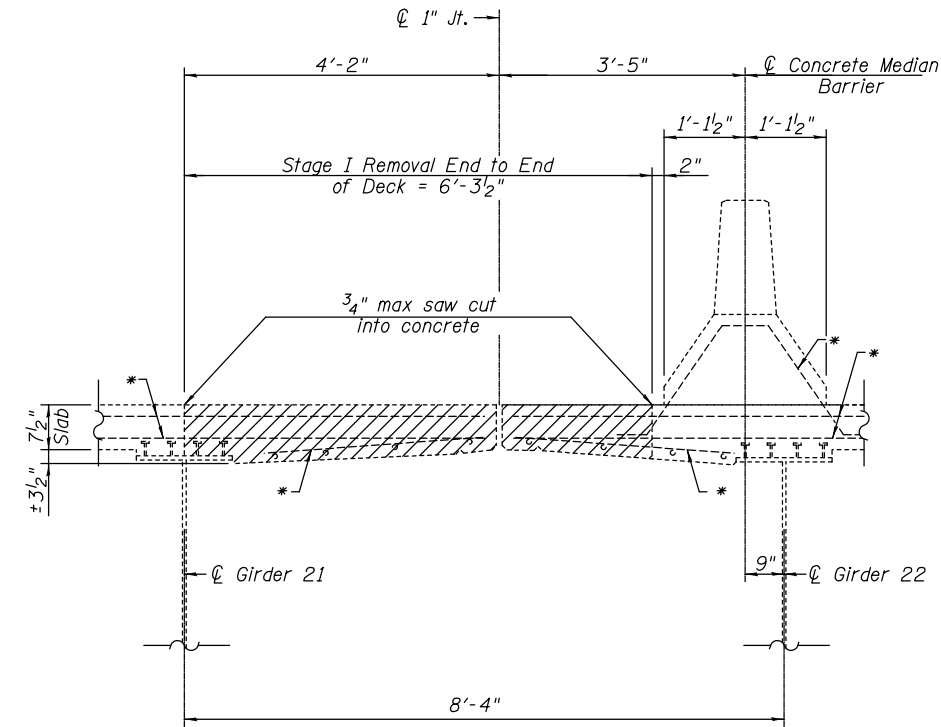


ELEVATION AT CONCRETE MEDIAN

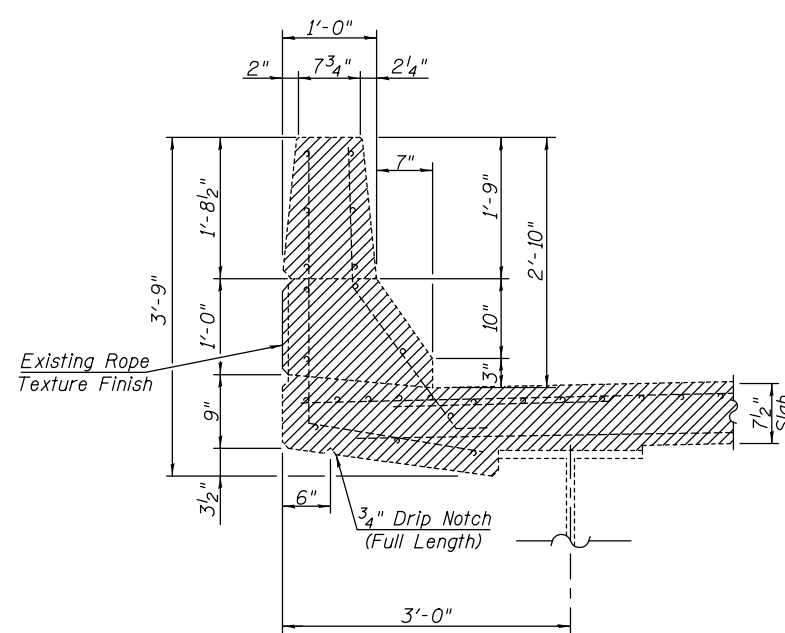
- Concrete Removal



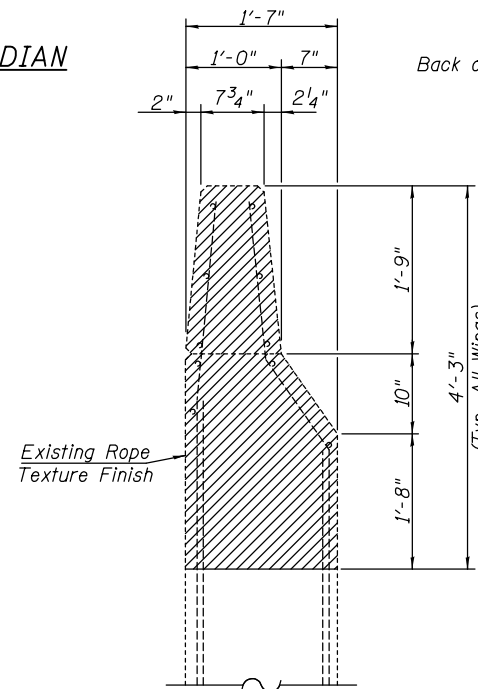
SECTION A-A
(Horiz. dim. at Rt. L's)



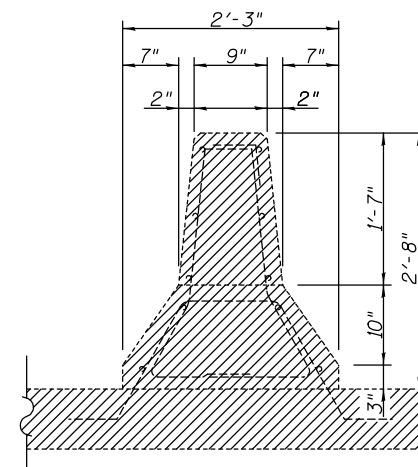
SECTION B-B



SECTION C-C



SECTION D-D



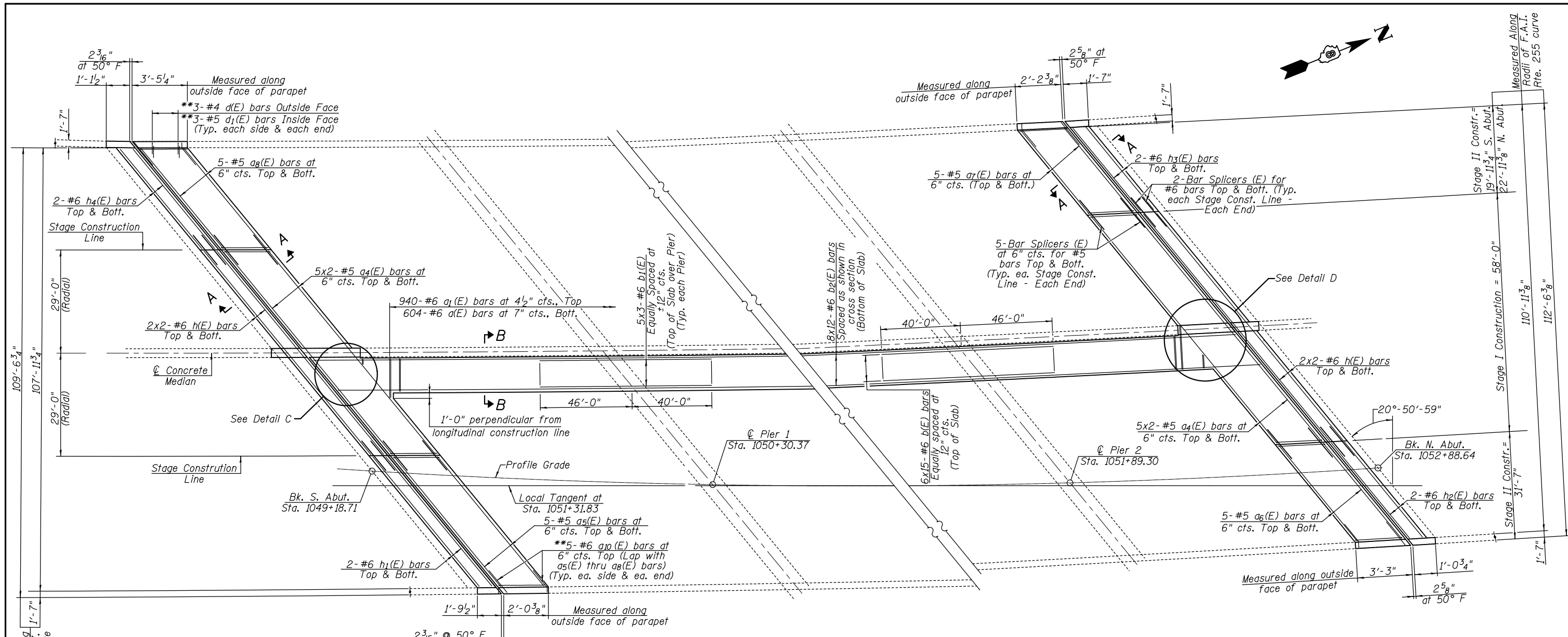
SECTION E-E

NOTES
Removal of existing expansion joint and associated material shall not be paid for separately but shall be included in the cost of Concrete Removal.
Trim existing reinforcement to accommodate proposed expansion joint.
Stud Shear Connectors damaged during concrete removal operations shall be removed and replaced per Section 505 of the Standard Specifications. Cost included with Concrete Removal.

**NORTH BOUND LANES -
SUPERSTRUCTURE CONCRETE REMOVAL DETAILS**
S.N. 082-0241 (NB) & S.N. 082-0242 (SB)

* Existing reinforcement to remain.

FILE NAME =	USER NAME =	DESIGNED -	REVISD -	Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	NORTH BOUND LANES - SUPERSTRUCTURE CONCRETE REMOVAL DETAILS		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISD -				255	82-2HB-2-1	ST. CLAIR	54	45
		DRAWN -	REVISD -				CONTRACT NO. 76B21				
		CHECKED -	REVISD -				ILLINOIS FED. AID PROJECT				
					SHEET NO. 13 OF 22 SHEETS						



PROPOSED PARTIAL PLAN

- * Cut bars in field to fit skew.
- ** Bend bars in field to fit skew.

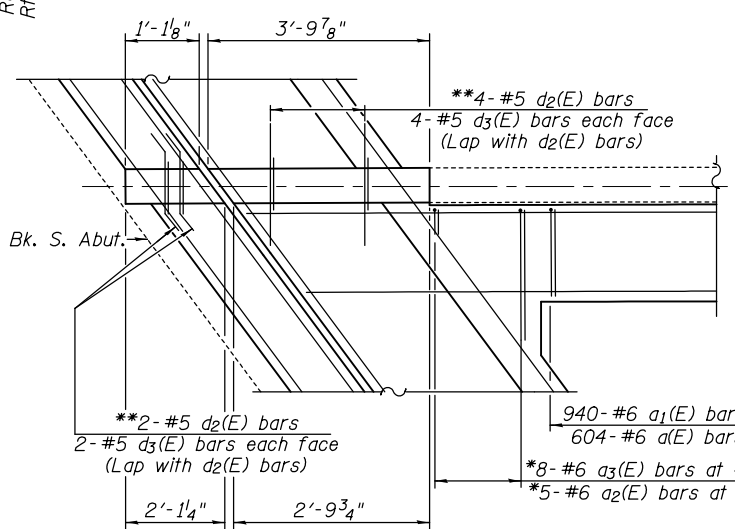
MIN. BAR LAP

- #5 = 3'-3"
- #6 = 3'-10"

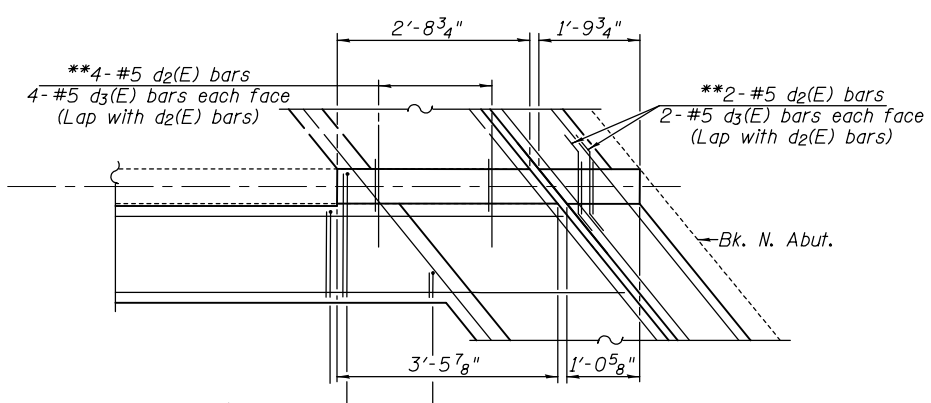
NOTES

Bars indicated thus 2x2-#6 etc. indicates 2 lines of bars with 2 lengths per line.
 See Sheet 15 of 22 for Section Views
 Dimensions are based on a Rolled Railed Strip Seal Joint.
 If the Contractor elects to use the Welded Strip Seal Joint, deck dimensions may require adjustments. See sheet 18 of 22 for details.

SOUTH BOUND LANES - SUPERSTRUCTURE DETAILS
 S.N. 082-0241 (NB) & S.N. 082-0242 (SB)

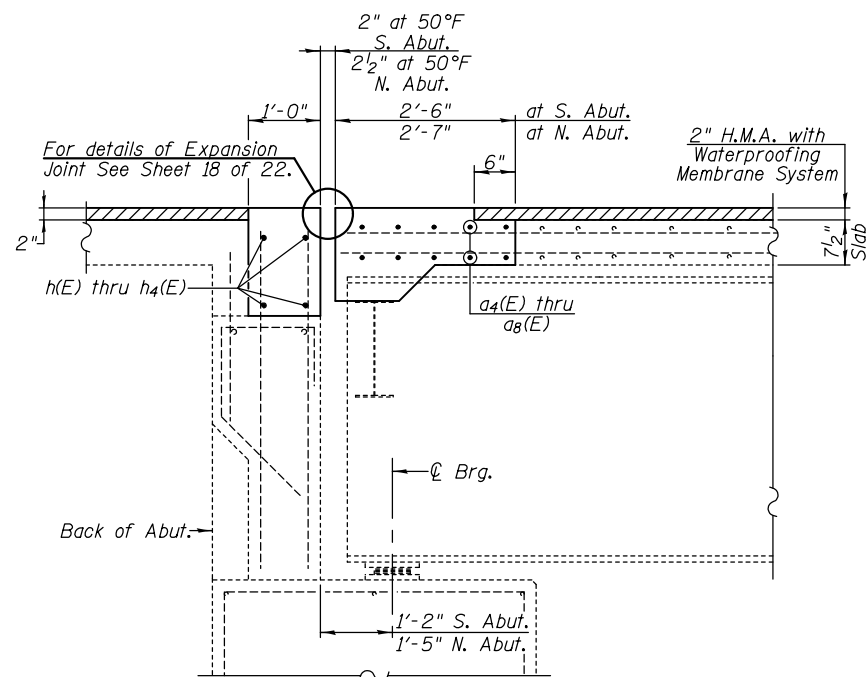


DETAIL C

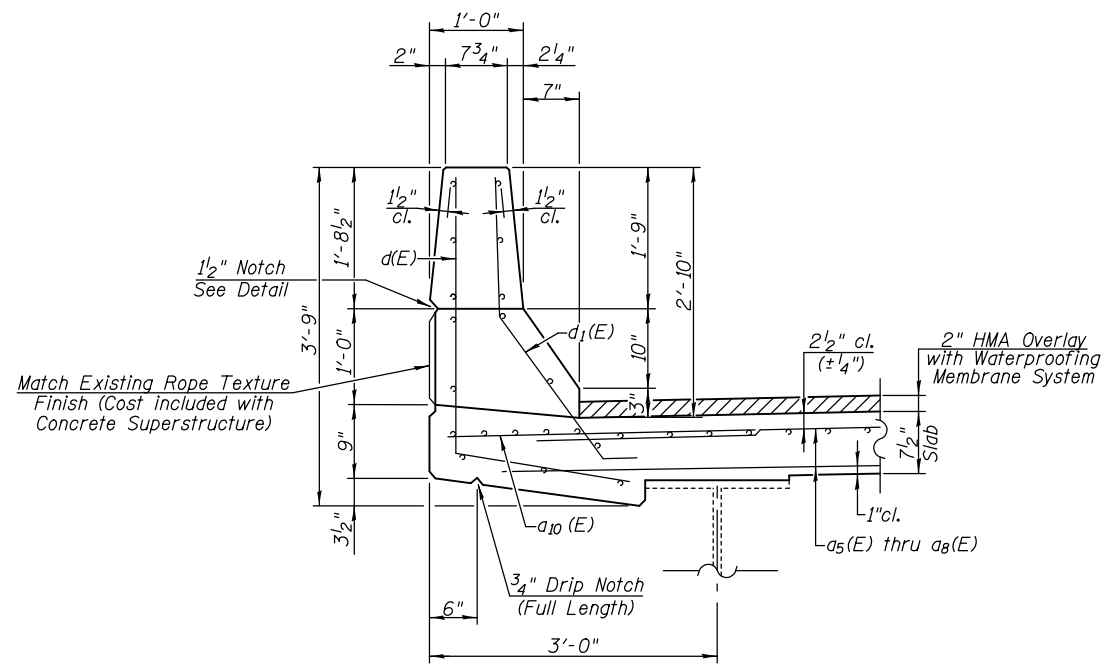


DETAIL D

FILE NAME =	USER NAME =	DESIGNED -	REVISD -	Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	SOUTH BOUND LANES - SUPERSTRUCTURE DETAILS SHEET NO. 14 OF 22 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE =	CHECKED -	REVISD -	255			82-2HB-2-1	ST. CLAIR	54	46	
PLOT DATE =	DRAWN -	REVISD -	CONTRACT NO. 10521							
	CHECKED -	REVISD -	ILLINOIS FED. AID PROJECT							

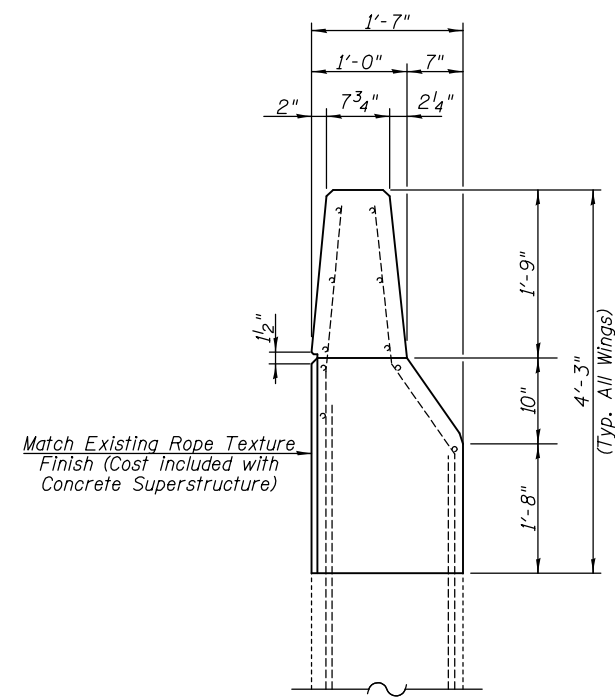


SECTION A-A
(Horiz. dim. at Rt. L's)

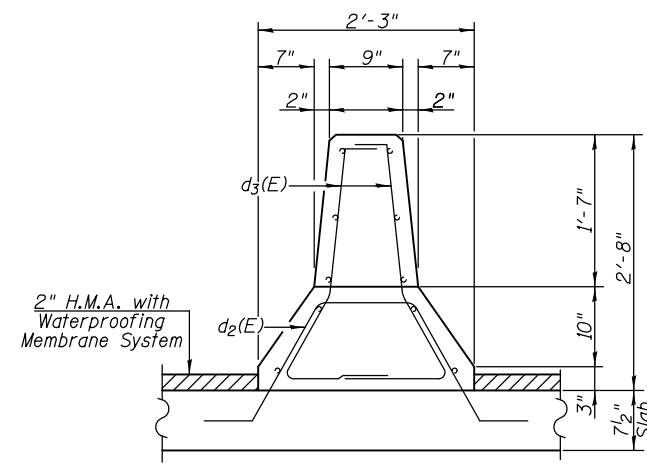


SECTION THRU PARAPET

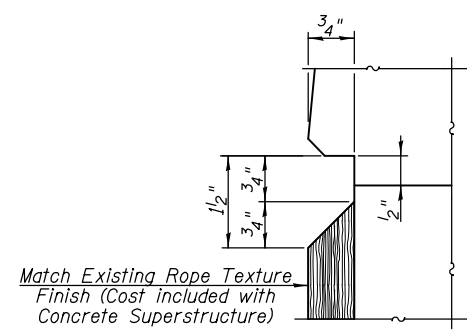
NOTES
All transverse dimensions are measured along the radii of F.A.I. Rt. 255 curves except as noted.
Dimensions are based on a Rolled Rail Strip Seal Joint. If the Contractor elects to use the Welded Strip Seal Joint, deck dimensions may require adjustments.
See sheet 17 of 22 for Bill of Material and bar details.



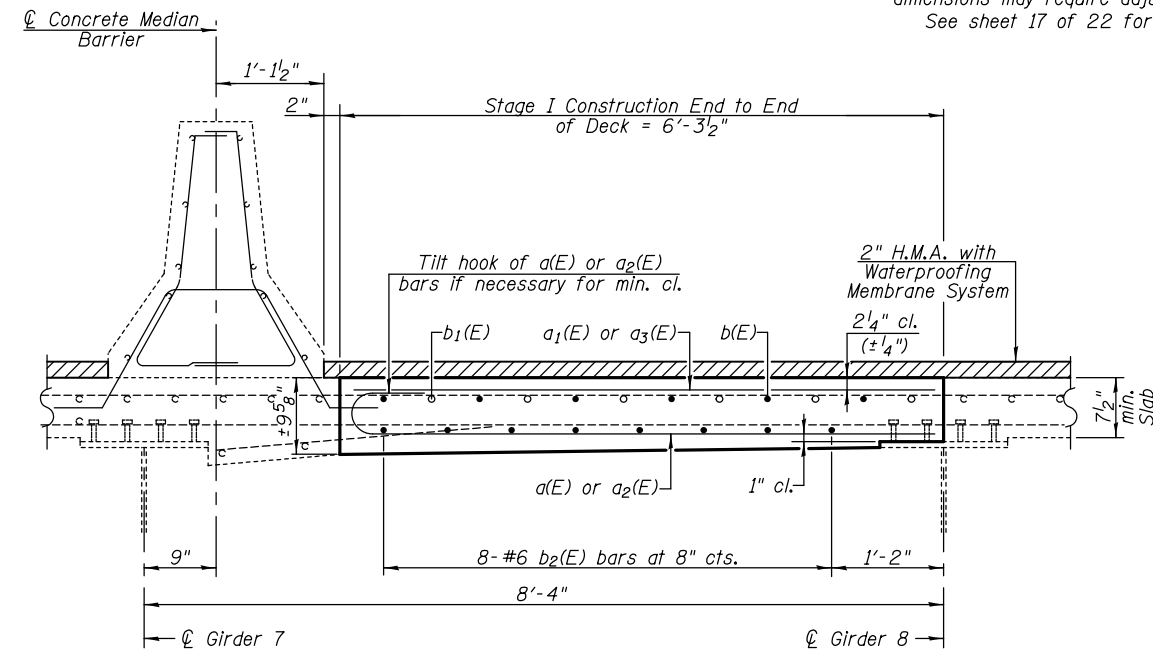
SECTION THRU WINGWALL



SECTION THRU CONCRETE MEDIAN



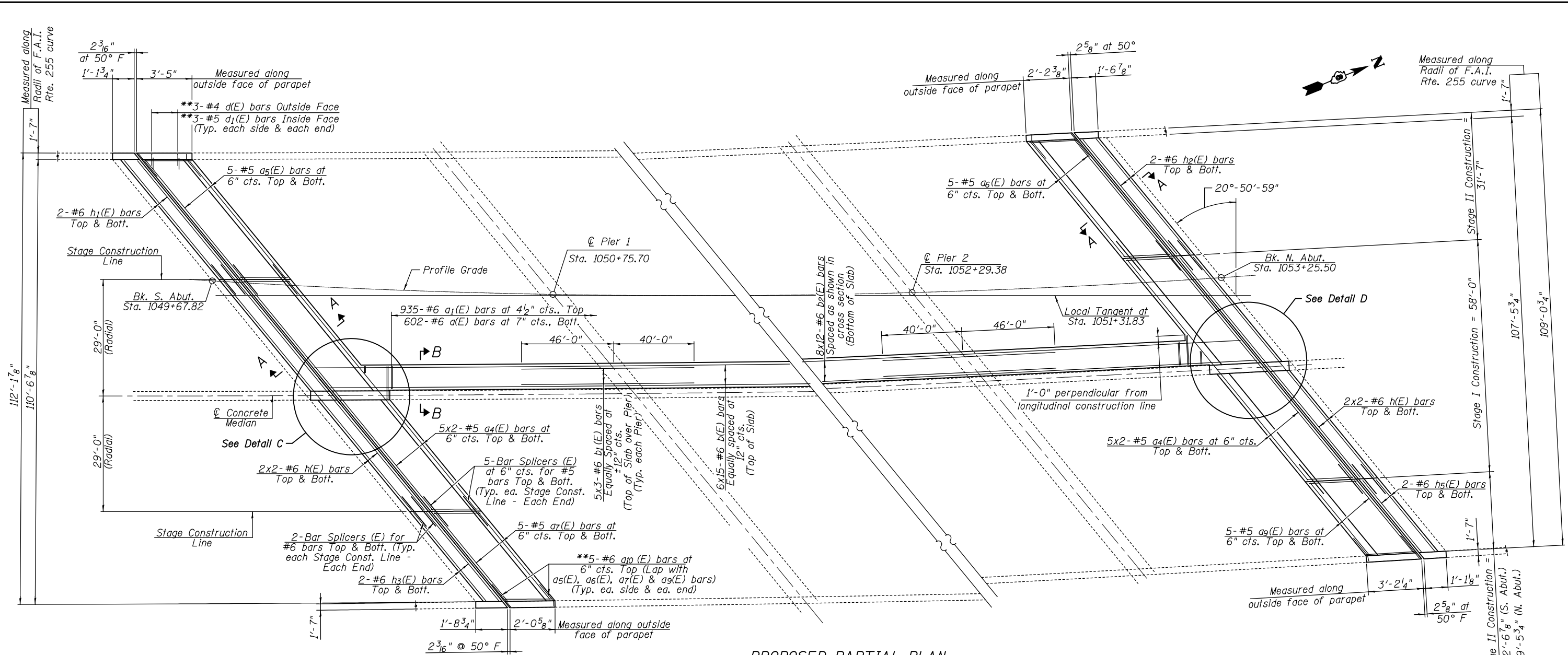
NOTCH DETAIL



SECTION B-B

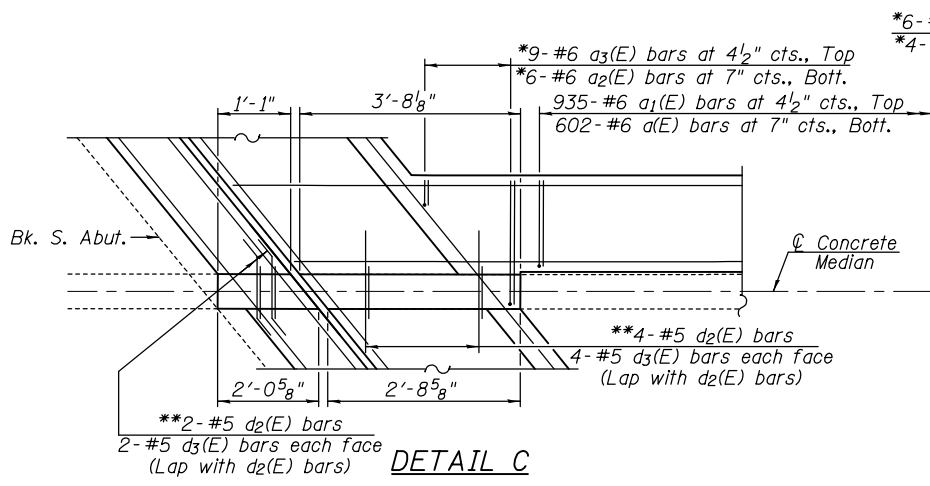
SOUTH BOUND LANES - SUPERSTRUCTURE DETAILS
S.N. 082-0241 (NB) & S.N. 082-0242 (SB)

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	<p>Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907</p>	<p>SOUTH BOUND LANES - SUPERSTRUCTURE DETAILS</p> <p>SHEET NO. 15 OF 22 SHEETS</p>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED -			255	82-2HB-2-1	ST. CLAIR	54	47
PLOT SCALE =		DRAWN -	REVISED -			CONTRACT NO. 76B21				
PLOT DATE =		CHECKED -	REVISED -			ILLINOIS FED. AID PROJECT				

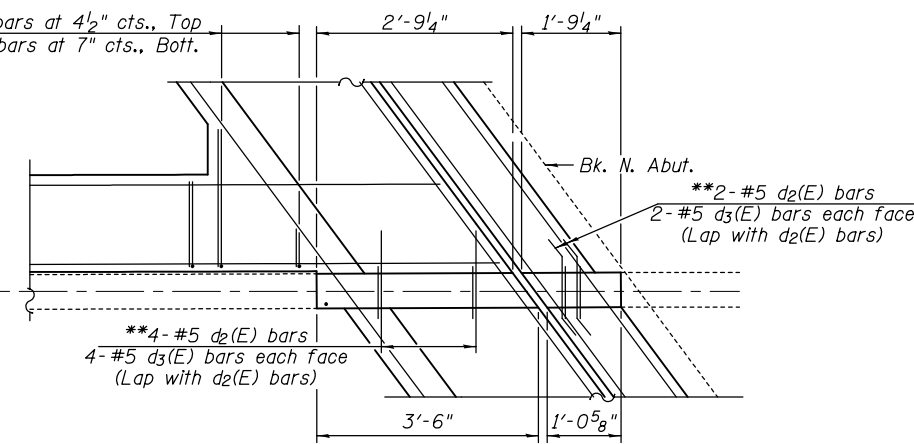


PROPOSED PARTIAL PLAN

* Cut bars in field to fit skew.
 ** Bend bars in field to fit skew.



DETAIL C



DETAIL D

MIN. BAR LAP

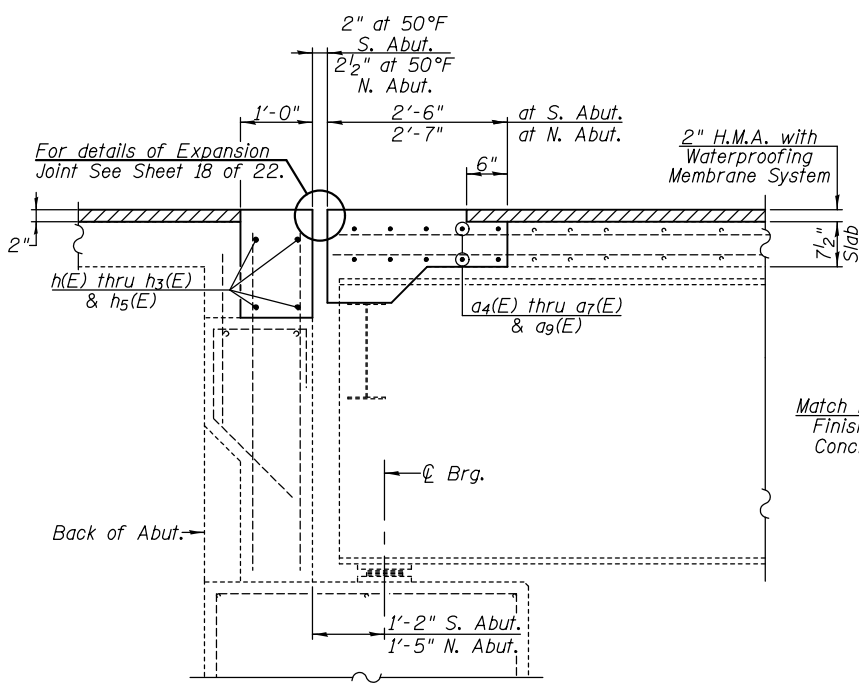
#5 = 3'-3"
 #6 = 3'-10"

NOTES

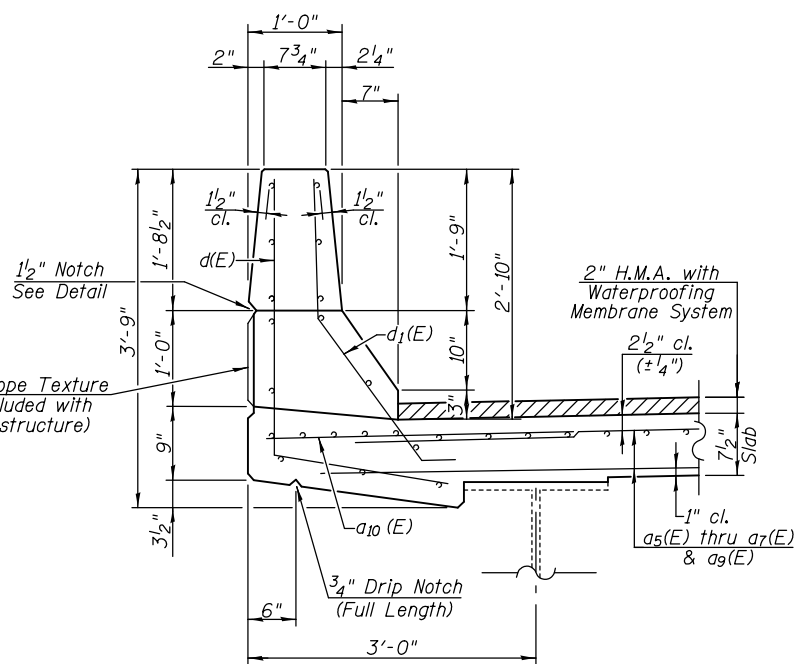
Bars indicated thus 2x2-#6 etc. indicates 2 lines of bars with 2 lengths per line.
 See Sheet 17 of 22 for Section Views
 Dimensions are based on a Rolled Railed Strip Seal Joint. If the Contractor elects to use the Welded Strip Seal Joint, deck dimensions may require adjustments. See sheet 18 of 22 for details.

NORTH BOUND LANES - SUPERSTRUCTURE DETAILS
 S.N. 082-0241 (NB) & S.N. 082-0242 (SB)

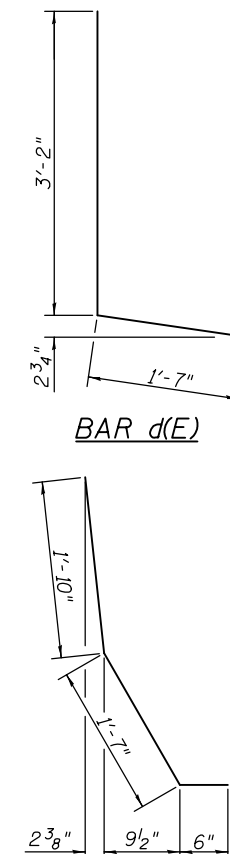
FILE NAME =	USER NAME =	DESIGNED -	REVISED -	Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	NORTH BOUND LANES - SUPERSTRUCTURE DETAILS SHEET NO. 16 OF 22 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		CHECKED -	REVISED -			255	82-2HB-2-1	ST. CLAIR	54	48	
PLOT SCALE =		DRAWN -	REVISED -			CONTRACT NO. 10021					
PLOT DATE =		CHECKED -	REVISED -			ILLINOIS FED. AID PROJECT					



SECTION A-A
(Horiz. dim. at Rt. L's)

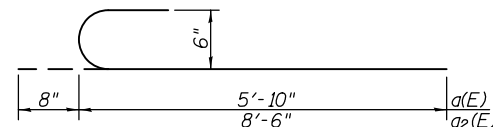


SECTION THRU PARAPET

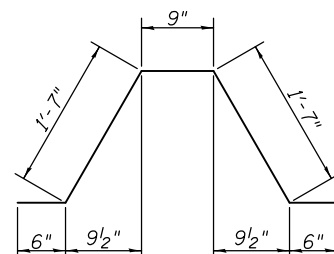


BAR d(E)

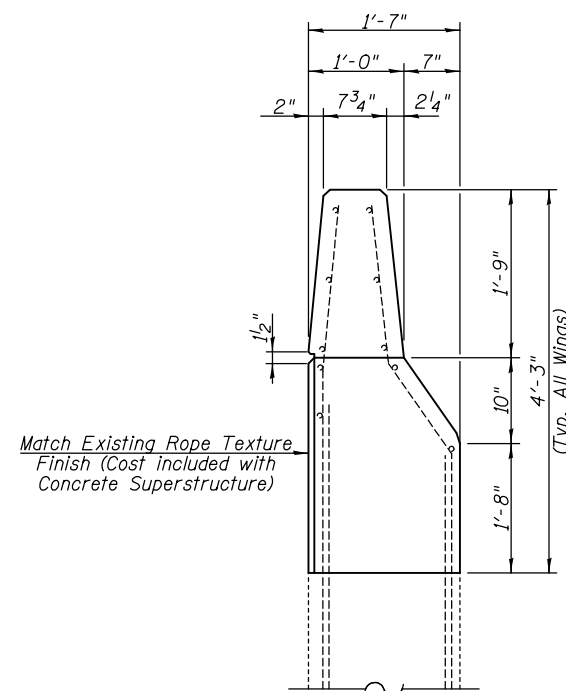
BAR d1(E)



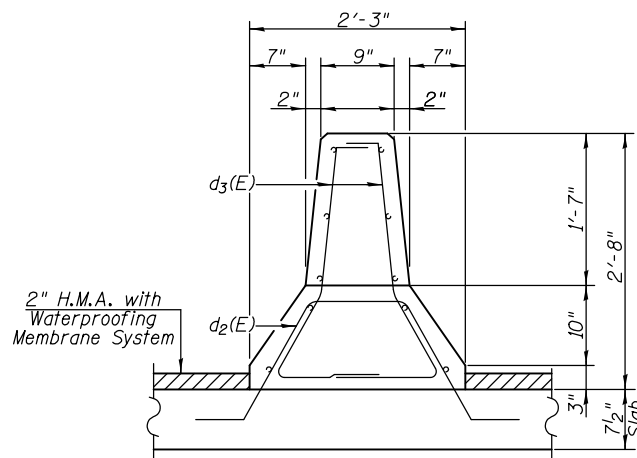
BARS a(E) & a2(E)



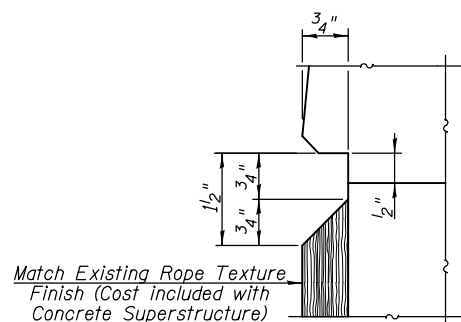
BAR d2(E)



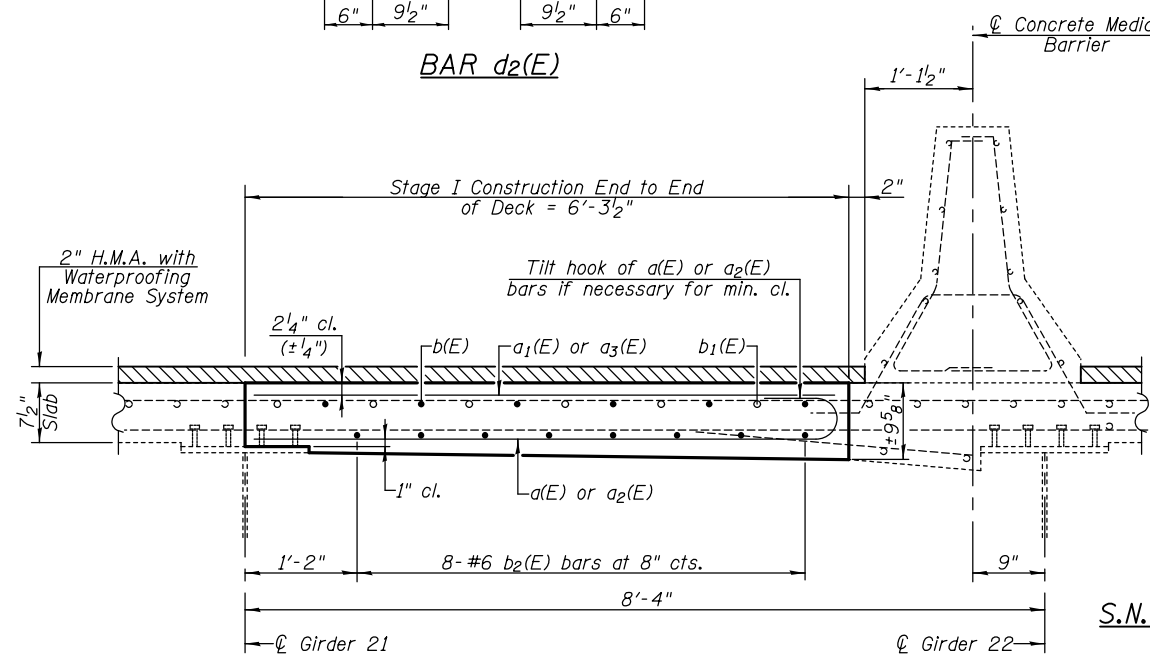
SECTION THRU WINGWALL



SECTION THRU CONCRETE MEDIAN



NOTCH DETAIL



SECTION B-B

**SOUTH BOUND LANES
SUPERSTRUCTURE
BILL OF MATERIAL**

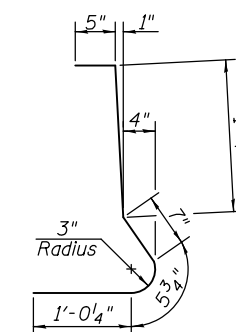
Bar	No.	Size	Length	Shape
a(E)	604	#6	6'-6"	C
a1(E)	940	#6	5'-10"	—
a2(E)	10	#6	9'-2"	C
a3(E)	16	#6	8'-6"	—
a4(E)	40	#5	33'-8"	—
a5(E)	10	#5	32'-6"	—
a6(E)	10	#5	31'-6"	—
a7(E)	10	#5	24'-2"	—
a8(E)	10	#5	21'-9"	—
a10(E)	20	#6	6'-0"	—
b(E)	90	#6	27'-10"	—
b1(E)	30	#6	32'-6"	—
b2(E)	96	#6	33'-11"	—
d(E)	12	#4	4'-9"	L
d1(E)	12	#5	3'-11"	—
d2(E)	12	#5	4'-11"	—
d3(E)	24	#5	4'-1"	—
h(E)	16	#6	33'-8"	—
h1(E)	4	#6	33'-6"	—
h2(E)	4	#6	32'-4"	—
h3(E)	4	#6	25'-6"	—
h4(E)	4	#6	22'-9"	—
Reinforcement Bars, Epoxy Coated				Pound 29,070
Concrete Superstructure				Cu. Yds. 104.4

**NORTH BOUND LANES
SUPERSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	602	#6	6'-6"	C
a1(E)	935	#6	5'-10"	—
a2(E)	10	#6	9'-2"	C
a3(E)	15	#6	8'-6"	—
a4(E)	40	#5	33'-8"	—
a5(E)	10	#5	32'-6"	—
a6(E)	10	#5	31'-6"	—
a7(E)	10	#5	24'-2"	—
a9(E)	10	#5	21'-0"	—
a10(E)	20	#6	6'-0"	—
b(E)	90	#6	27'-10"	—
b1(E)	30	#6	32'-6"	—
b2(E)	96	#6	33'-11"	—
d(E)	12	#4	4'-9"	L
d1(E)	12	#5	3'-11"	—
d2(E)	12	#5	4'-11"	—
d3(E)	24	#5	4'-1"	—
h(E)	16	#6	33'-8"	—
h1(E)	4	#6	33'-6"	—
h2(E)	4	#6	32'-4"	—
h3(E)	4	#6	25'-6"	—
h5(E)	4	#6	21'-4"	—
Reinforcement Bars, Epoxy Coated				Pound 28,980
Concrete Superstructure				Cu. Yds. 103.6

NOTES

All transverse dimensions are measured along the radii of F.A.I. Rt. 255 curves except as noted.
Dimensions are based on a Rolled Rail Strip Seal Joint. If the Contractor elects to use the Welded Strip Seal Joint, deck dimensions may require adjustments.



BAR d3(E)

**NORTH BOUND LANES -
SUPERSTRUCTURE DETAILS
S.N. 082-0241 (NB) & S.N. 082-0242 (SB)**

FILE NAME =	USER NAME =	DESIGNED -	REVISD -
		CHECKED -	REVISD -
		DRAWN -	REVISD -
		CHECKED -	REVISD -



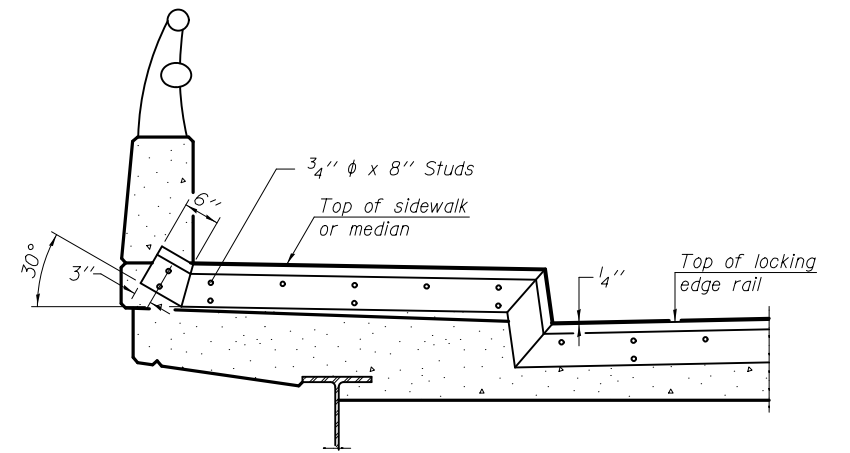
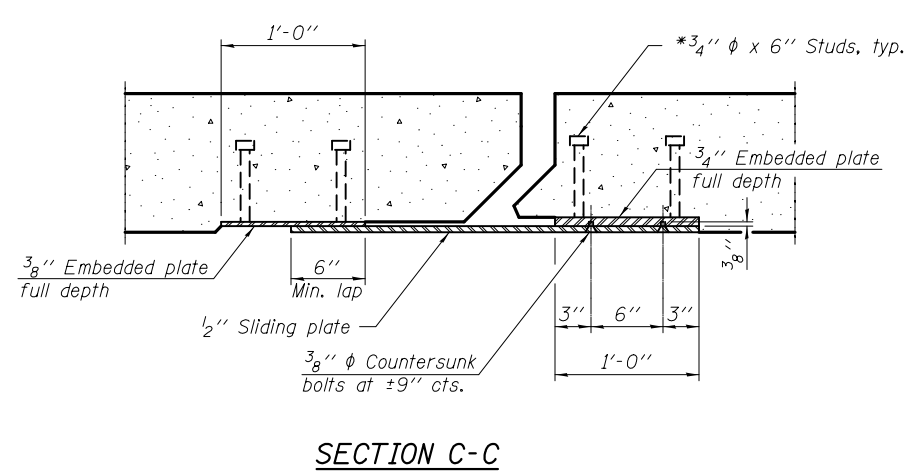
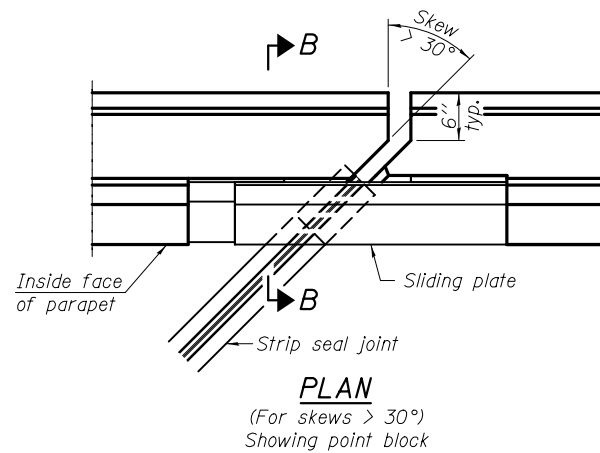
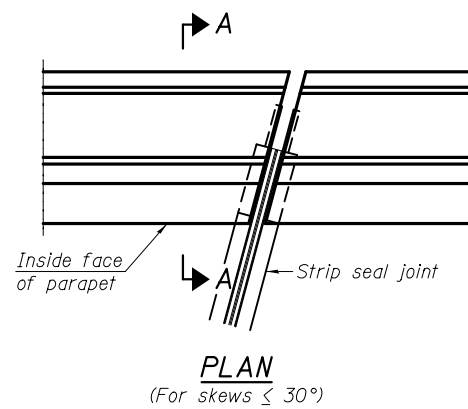
Allen Henderson & Associates, Inc.
Civil and Structural Engineers Springfield, IL.
62703 Phone: (217)544-8033 IL Design Firm
No. 184-001907

**NORTH BOUND LANES -
SUPERSTRUCTURE DETAILS**

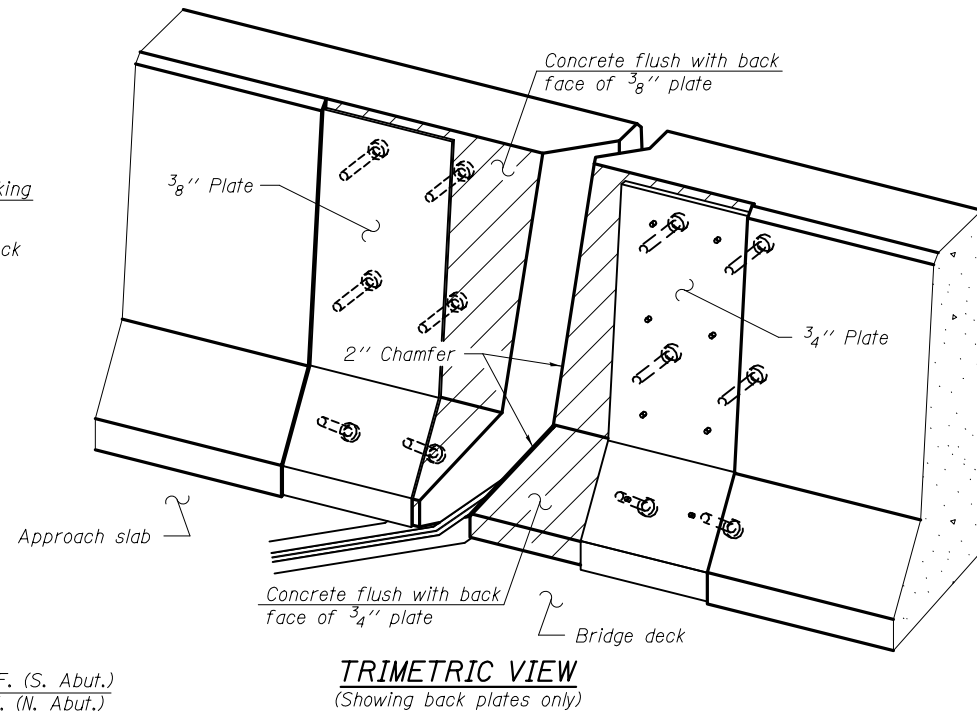
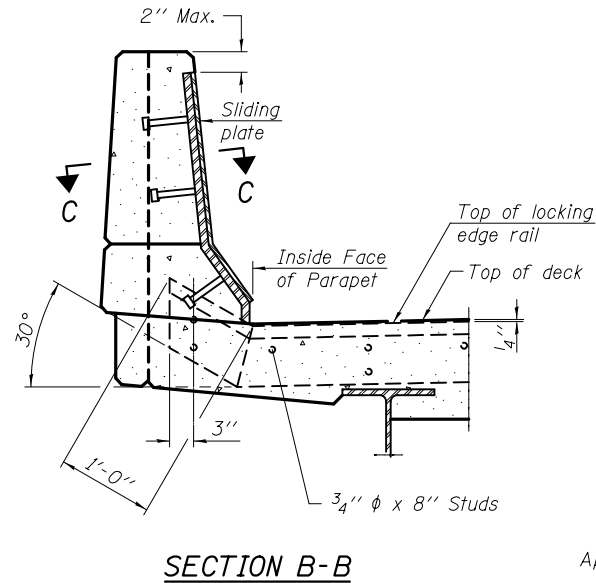
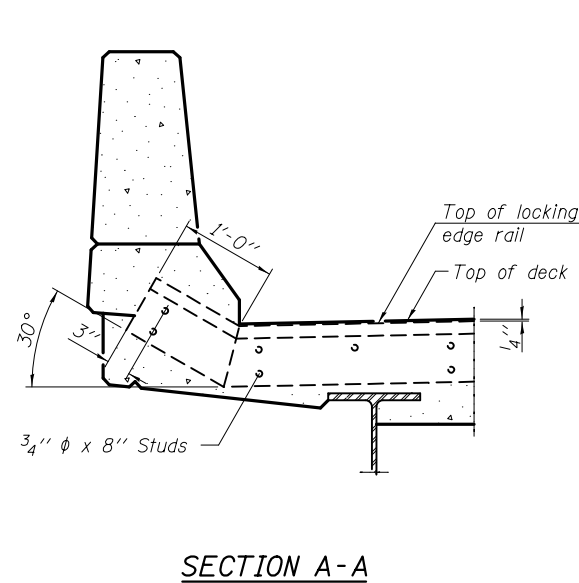
SHEET NO. 17 OF 22 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-2HB-2-1	ST. CLAIR	54	49
CONTRACT NO. 76B21				

ILLINOIS FED. AID PROJECT



TYPICAL END TREATMENT AT SIDEWALK OR MEDIAN
Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.

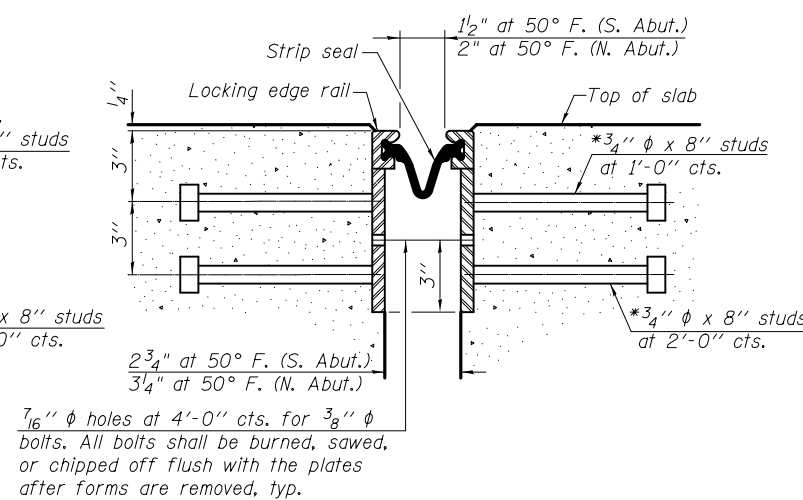
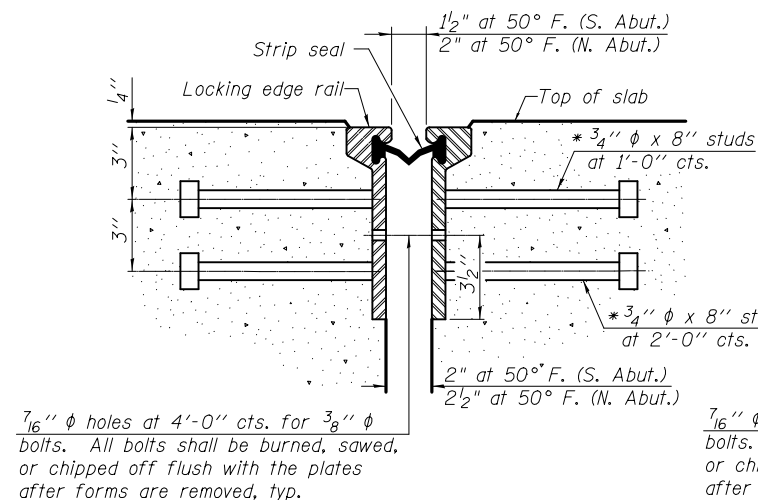


Notes:
The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.
The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.
The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications. Maximum space between rail segments at stage lines shall be 3/16", sealed with a suitable sealant.
Parapet plates and anchorage studs for skews $> 30^\circ$ included in the cost of Preformed Joint Strip Seal.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	477



7/16" ϕ holes at 4'-0" cts. for 3/8" ϕ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

7/16" ϕ holes at 4'-0" cts. for 3/8" ϕ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

ROLLED EXTRUDED RAIL **WELDED RAIL**

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

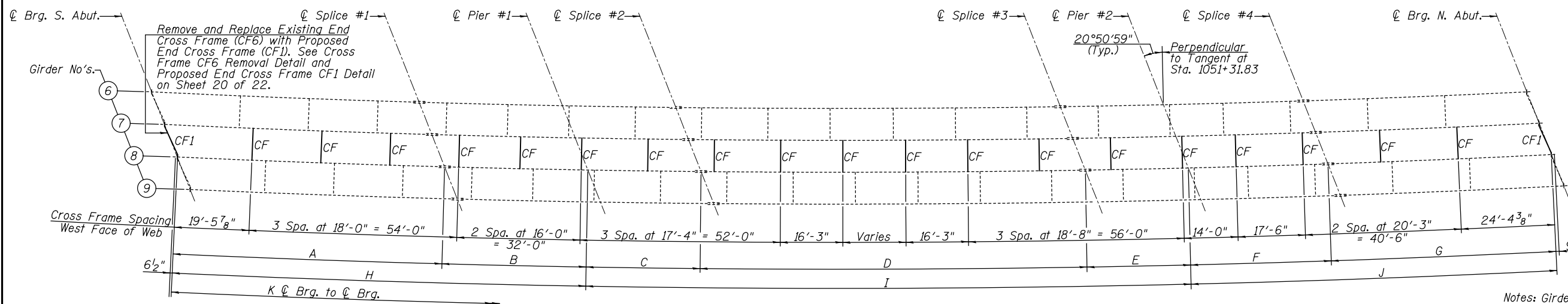
LOCKING EDGE RAILS

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

EJ-SSJ

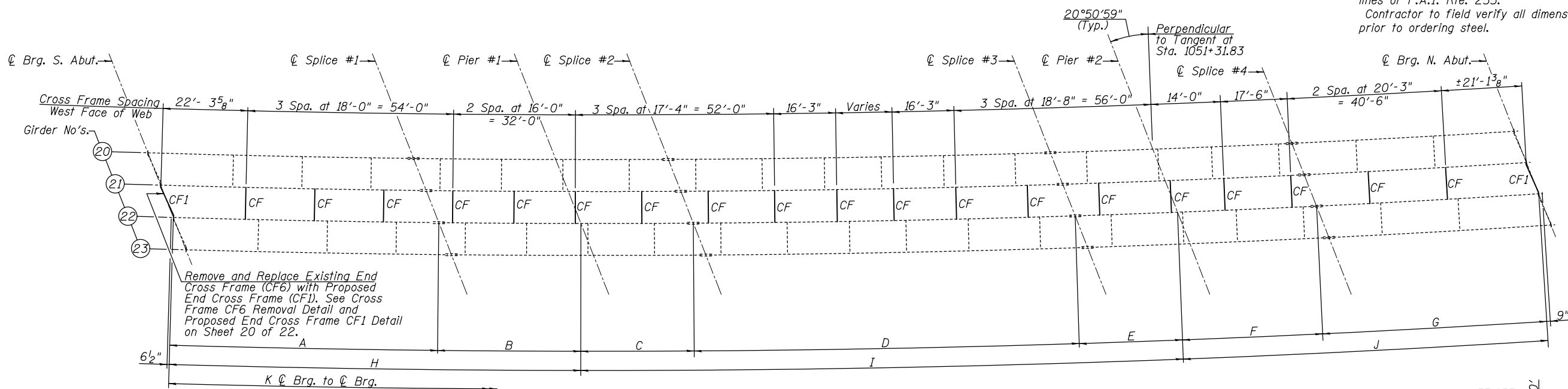
7-1-10

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	<p>Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907</p>	<p>PREFORMED JOINT STRIP SEAL STRUCTURE NO.</p>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED -			255	82-2HB-2-1	ST. CLAIR	54	50
PLOT SCALE =		DRAWN -	REVISED -			CONTRACT NO. 76B21				
PLOT DATE =		CHECKED -	REVISED -			SHEET NO. 18 OF 22 SHEETS			ILLINOIS FED. AID PROJECT	



PARTIAL FRAMING PLAN - SOUTH BOUND LANES

Notes: Girders shown are spaced at 8'-4" cts. along radial lines of F.A.I. Rte. 255. All longitudinal dimensions are along ϕ of girders. All interior cross frames are along radial lines of F.A.I. Rte. 255. Contractor to field verify all dimensions prior to ordering steel.



PARTIAL FRAMING PLAN - NORTH BOUND LANES

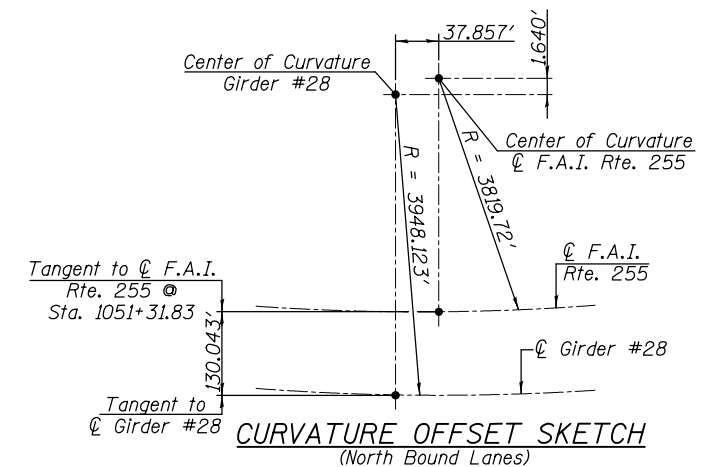
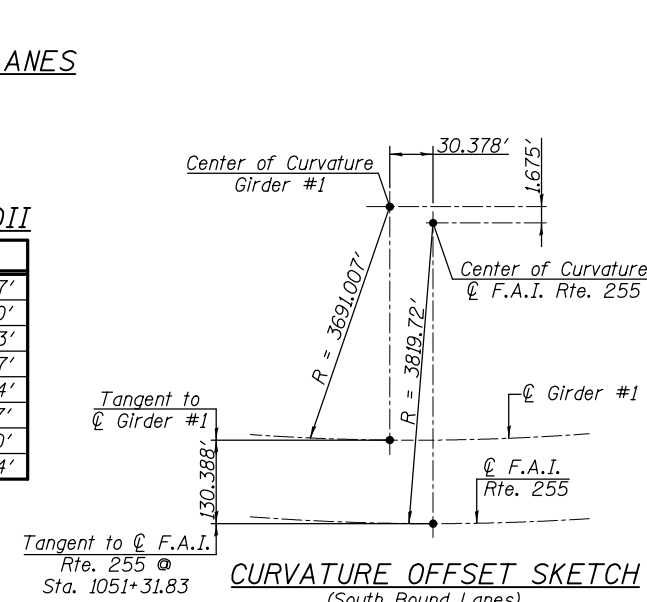
* GIRDER DIMENSIONS SOUTH BOUND LANES

G #	Span #1		Span #2		Span #3		Span #1	Span #2	Span #3	ϕ Brg. to ϕ Brg.	
	"A"	"B"	"C"	"D"	"E"	"F"					"G"
6	69'-10 ⁷ / ₈ "	37'-4 ⁵ / ₈ "	29'-6 ⁵ / ₈ "	100'-4 ¹ / ₄ "	26'-11"	36'-6 ¹ / ₈ "	58'-4 ¹ / ₂ "	107'-3 ¹ / ₂ "	156'-9 ⁷ / ₈ "	94'-10 ³ / ₄ "	359'-0 ¹ / ₈ "
7	69'-10 ⁵ / ₈ "	37'-4 ³ / ₈ "	29'-6 ³ / ₈ "	100'-3 ³ / ₄ "	26'-10 ⁷ / ₈ "	36'-6 ¹ / ₈ "	58'-4 ³ / ₈ "	107'-3"	156'-9 ¹ / ₄ "	94'-10 ¹ / ₂ "	358'-10 ³ / ₄ "
8	69'-10 ⁴ / ₈ "	37'-4 ¹ / ₈ "	29'-6 ¹ / ₈ "	100'-3 ¹ / ₈ "	26'-10 ¹ / ₈ "	36'-6"	58'-4 ¹ / ₈ "	107'-2 ³ / ₈ "	156'-8 ⁵ / ₈ "	94'-10 ¹ / ₈ "	358'-9 ¹ / ₈ "
9	69'-9 ⁷ / ₈ "	37'-4"	29'-6 ¹ / ₄ "	100'-3"	26'-10 ³ / ₄ "	36'-5 ⁷ / ₈ "	58'-4"	107'-1 ⁷ / ₈ "	156'-8"	94'-9 ⁷ / ₈ "	358'-7 ³ / ₄ "
20	69'-4 ⁵ / ₈ "	37'-1 ¹ / ₂ "	29'-4 ³ / ₈ "	99'-9"	26'-9 ¹ / ₄ "	36'-4"	58'-1 ¹ / ₄ "	106'-6 ¹ / ₈ "	155'-10 ⁵ / ₈ "	94'-5 ¹ / ₄ "	356'-10"
21	69'-4 ³ / ₈ "	37'-1 ¹ / ₄ "	29'-4 ¹ / ₄ "	99'-8 ⁵ / ₈ "	26'-9 ¹ / ₄ "	36'-4"	58'-1"	106'-5 ⁵ / ₈ "	155'-10 ¹ / ₈ "	94'-5"	356'-8 ³ / ₄ "
22	69'-4 ¹ / ₈ "	37'-1 ¹ / ₈ "	29'-4 ¹ / ₈ "	99'-8 ³ / ₈ "	26'-9 ¹ / ₈ "	36'-3 ⁷ / ₈ "	58'-0 ⁷ / ₈ "	106'-5 ¹ / ₄ "	155'-9 ³ / ₈ "	94'-4 ³ / ₄ "	356'-7 ³ / ₈ "
23	69'-3 ³ / ₄ "	37'-1"	29'-4"	99'-8"	26'-9"	36'-3 ³ / ₄ "	58'-0 ⁵ / ₈ "	106'-4 ³ / ₄ "	155'-9"	94'-4 ³ / ₈ "	356'-6 ¹ / ₈ "

* For Information only - Per Existing Plans

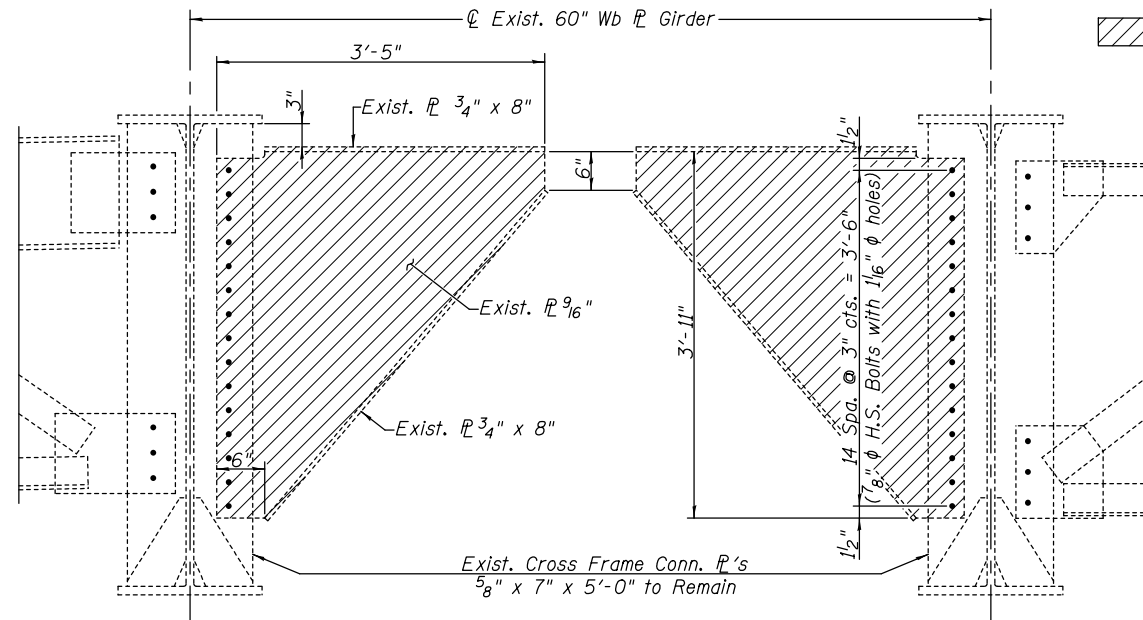
* GIRDER RADII

Girder	Radius
6	3729.637'
7	3737.970'
8	3746.303'
9	3754.637'
20	3884.804'
21	3893.137'
22	3901.470'
23	3909.804'



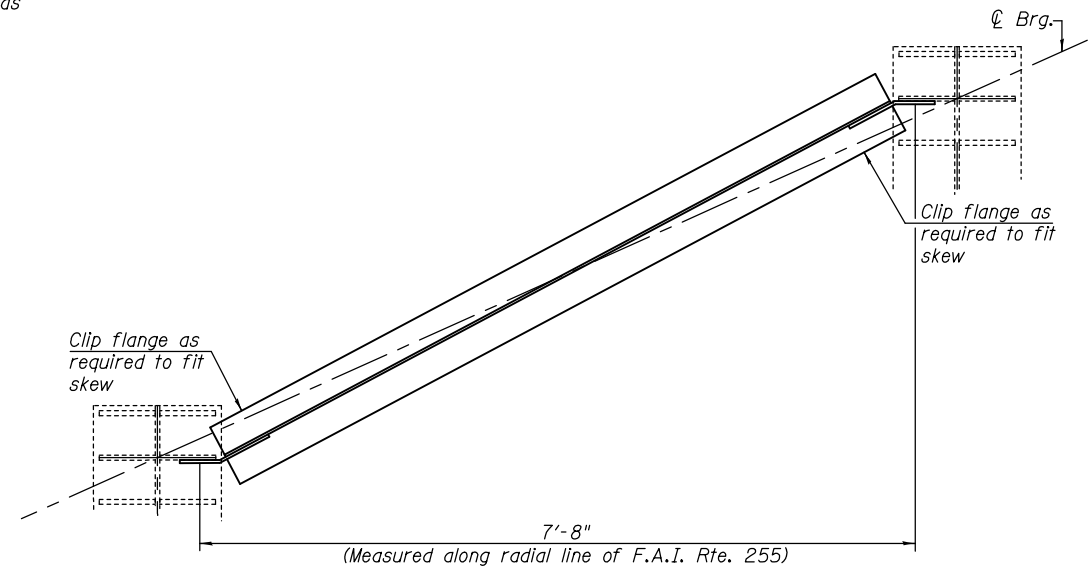
CURVATURE OFFSET SKETCH (South Bound Lanes)

STRUCTURAL STEEL DETAILS S.N. 082-0241 (NB) & S.N. 082-0242 (SB)

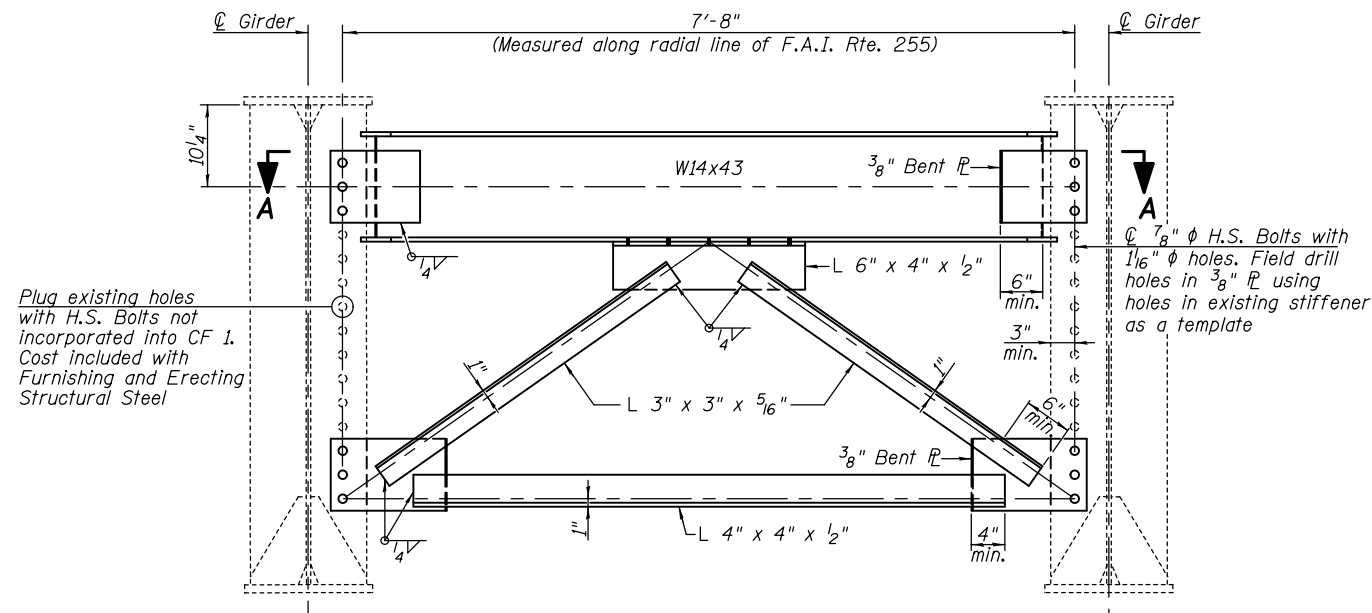


EXISTING CROSS FRAME CF6 REMOVAL DETAIL
(4 Locations)

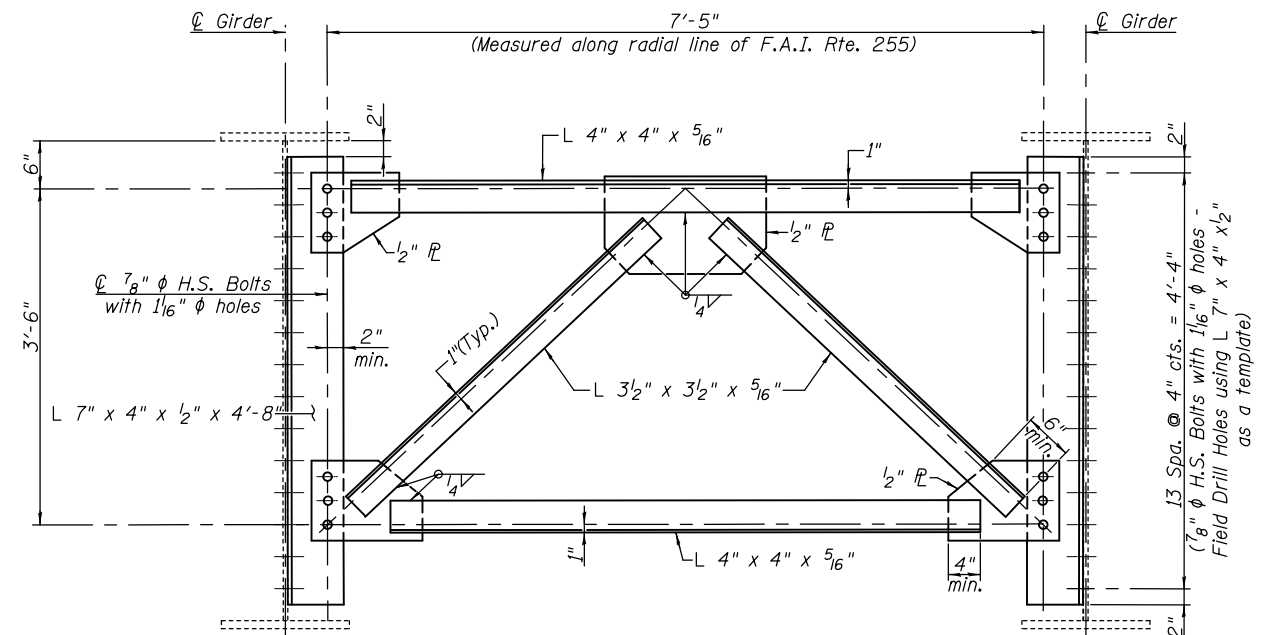
- Indicates steel to be removed as Structural Steel Removal



SECTION A-A



END CROSS FRAME CF1
(4 Required)



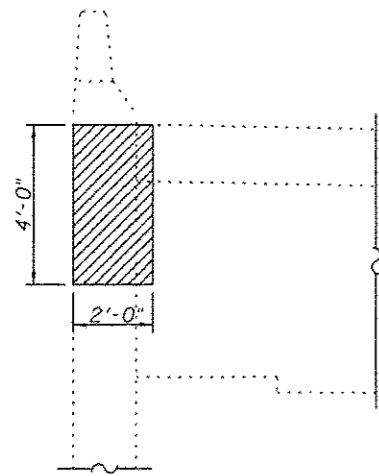
CROSS FRAME CF
(38 Required)

Notes: Field verify all dimensions prior to ordering steel.
Cost of field drilling included with Furnishing and Erecting Structural Steel.
Two hardened washers required for each set of oversized holes.

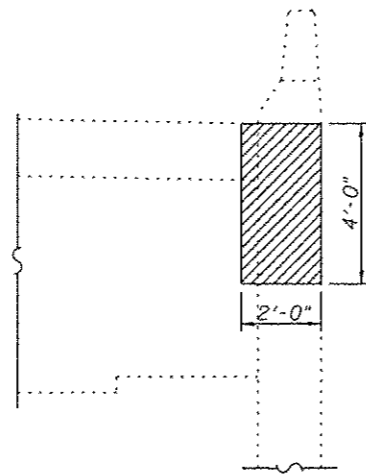
BILL OF MATERIAL

Item	Unit	Total
Structural Steel Removal	Pound	2980
Furnishing and Erecting Structural Steel	Pound	20810

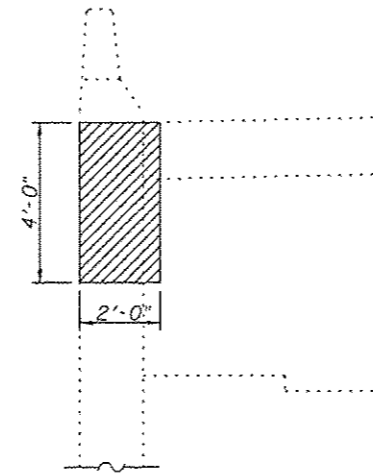
STRUCTURAL STEEL DETAILS
S.N. 082-0241 (NB) & S.N. 082-0242 (SB)



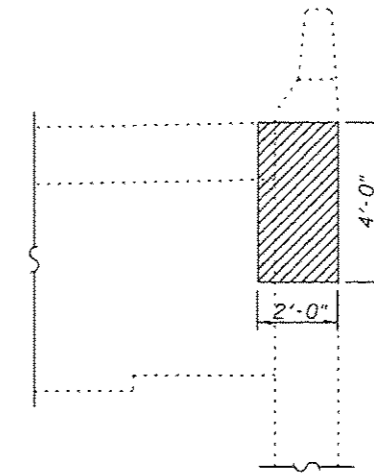
SOUTH BOUND LANES
SOUTH ABUTMENT
EAST CORNER
(Looking South)



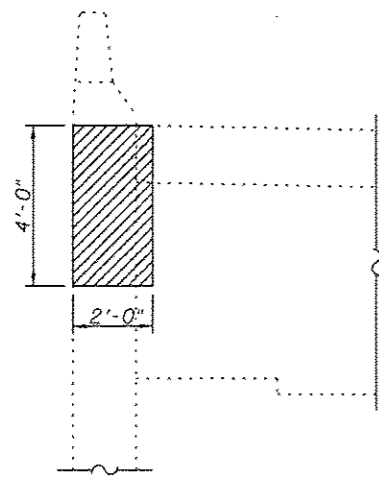
SOUTH BOUND LANES
SOUTH ABUTMENT
WEST CORNER
(Looking South)



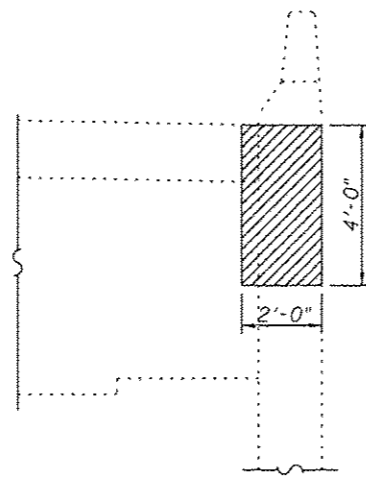
SOUTH BOUND LANES
NORTH ABUTMENT
WEST CORNER
(Looking North)



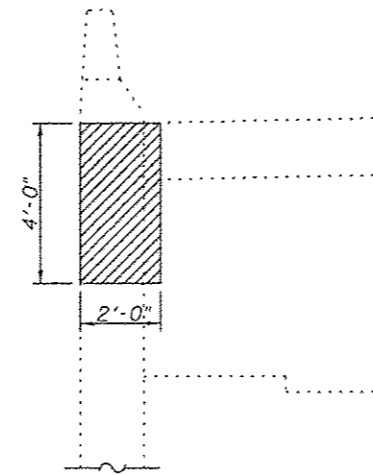
SOUTH BOUND LANES
NORTH ABUTMENT
EAST CORNER
(Looking North)



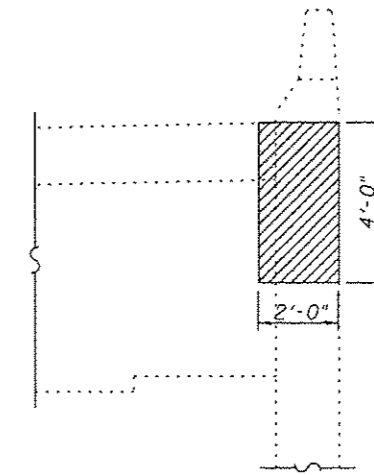
NORTH BOUND LANES
SOUTH ABUTMENT
EAST CORNER
(Looking South)



NORTH BOUND LANES
SOUTH ABUTMENT
WEST CORNER
(Looking South)



NORTH BOUND LANES
NORTH ABUTMENT
WEST CORNER
(Looking North)



NORTH BOUND LANES
NORTH ABUTMENT
EAST CORNER
(Looking North)


NOTES

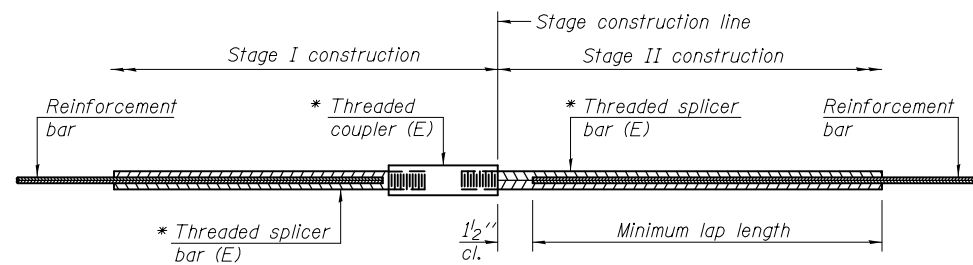
Hatched area indicates area of Structural Repair of Concrete.
Exact repairs are to be determined by the Engineer.

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth equal to or less than 5")	Sq. Ft.	64

ABUTMENT REPAIR DETAILS
S.N. 082-0241 (NB) & 082-0242 (SB)

FILE NAME :	USER NAME :	DESIGNED :	REVISED :	 Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	ABUTMENT REPAIR DETAILS SHEET NO. 21 OF 22 SHEETS	P.A.I. RTE.:	SECTION:	COUNTY:	TOTAL SHEETS:	SHEET NO.:
PLOT SCALE :	CHECKED :	REVISED :	255			82-2HB-2-1	ST. CLAIR	54	53	
PLOT DATE :	DRAWN :	REVISED :	CONTRACT NO. 76B21							
	CHECKED :	REVISED :	ILLINOIS FED. AID PROJECT							



STANDARD BAR SPLICER ASSEMBLY

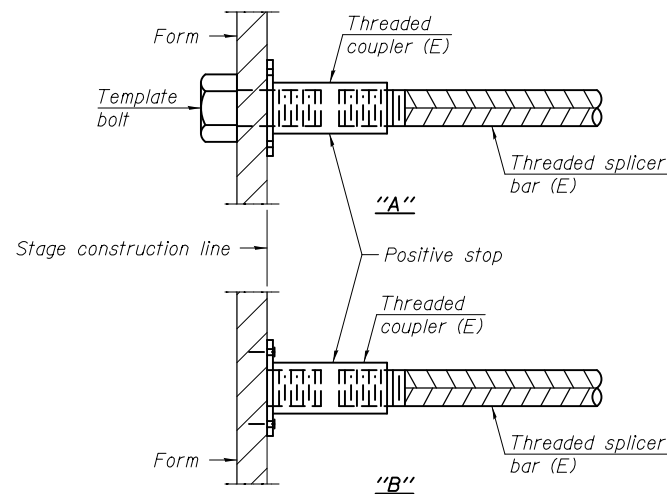
Minimum Lap Lengths				
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4
3, 4	1'-5"	1'-11"	2'-1"	2'-4"
5	1'-9"	2'-5"	2'-7"	2'-11"
6	2'-1"	2'-11"	3'-1"	3'-6"
7	2'-9"	3'-10"	4'-2"	4'-8"
8	3'-8"	5'-1"	5'-5"	6'-2"
9	4'-7"	6'-5"	6'-10"	7'-9"

Table 1: Black bar, 0.8 Class C
 Table 2: Black bar, Top bar lap, 0.8 Class C
 Table 3: Epoxy bar, 0.8 Class C
 Table 4: Epoxy bar, Top bar lap, 0.8 Class C

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

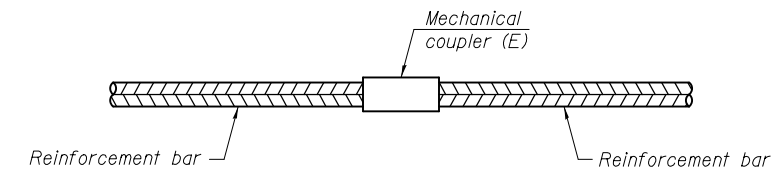
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
S.B. Lanes - Deck	#5	40	3
N.B. Lanes - Deck	#5	40	3
S.B. Lanes - Hatch Block	#6	16	4
N.B. Lanes - Hatch Block	#6	16	4



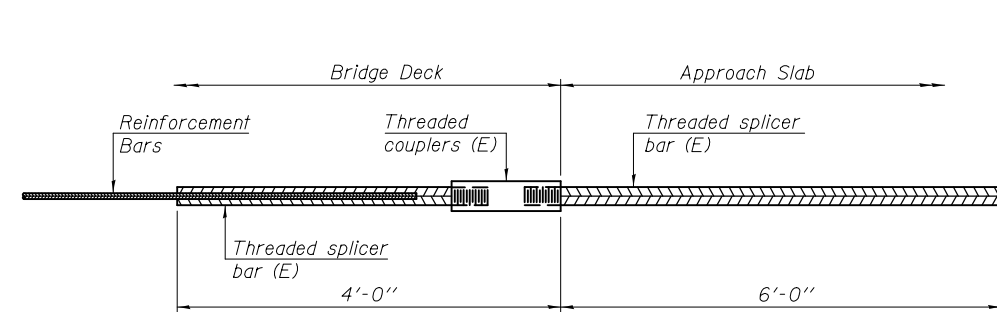
INSTALLATION AND SETTING METHODS

"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.



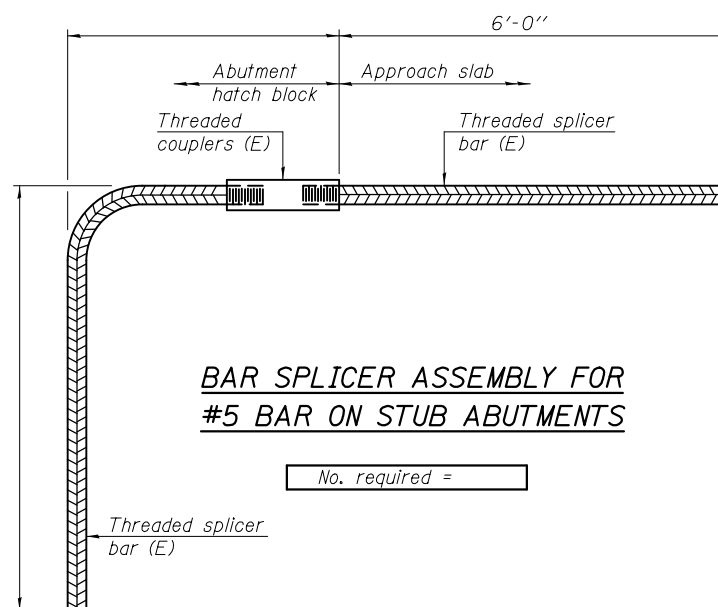
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required =



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. 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 special provision for Mechanical Splicers.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BAR SPLICER DETAILS
 S.N. 082-0241 (NB) & S.N. 082-0242 (SB)

BSD-1

7-1-10

FILE NAME =	USER NAME =	DESIGNED -	REVISD -	Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS STRUCTURE NO.	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE =	CHECKED -	REVISD -	255			82-2HB-2-1	ST. CLAIR	54	54	
PLOT DATE =	DRAWN -	REVISD -	CONTRACT NO. 76B21							
	CHECKED -	REVISD -	ILLINOIS FED. AID PROJECT							