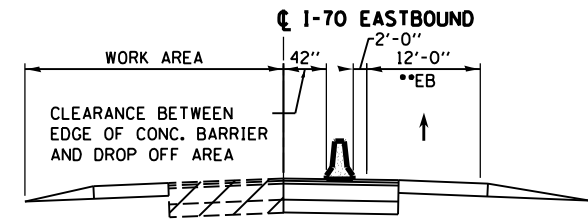
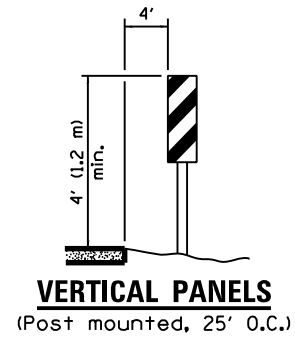
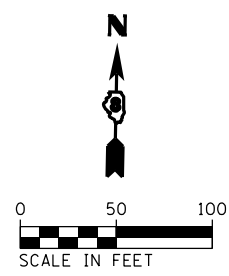
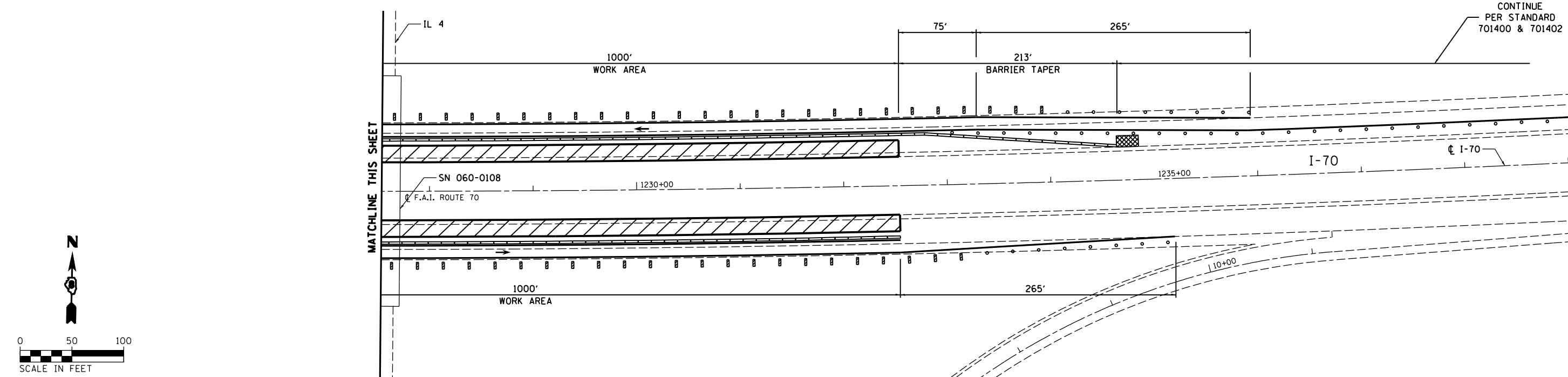
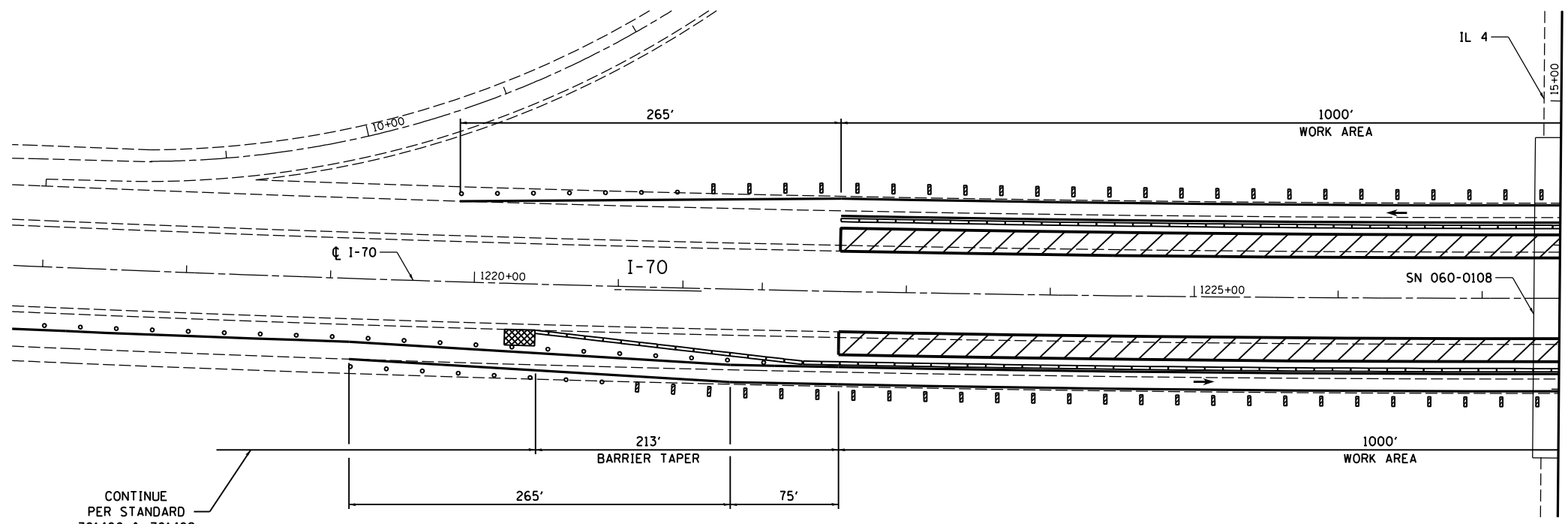


LEGEND	
	WORK AREA
	IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
	DIRECTION OF TRAVEL/LANE MAINTAINED
	BARRICADES OR DRUMS
	VERTICAL PANELS
	TEMPORARY CONCRETE BARRIER
	TEMPORARY PAVEMENT MARKING







- NOTES:
1. REFER TO STANDARD 701400 FOR SIGNING AND MARKING OF APPROACH TO LANE CLOSURE
 2. REFER TO STANDARD 701402 FOR SIGNING AND MARKING OF LANE CLOSURE
 3. WHERE POSTS FOR VERTICAL PANELS WOULD FALL WITHIN EXISTING HMA SHOULDER, USE BARRICADE OR DRUMS
 4. REFER TO SPECIAL PROVISIONS FOR WORK INCLUDED IN THIS STAGE



•• LANES SHIFTED AS SHOWN IN STAGING PLANS

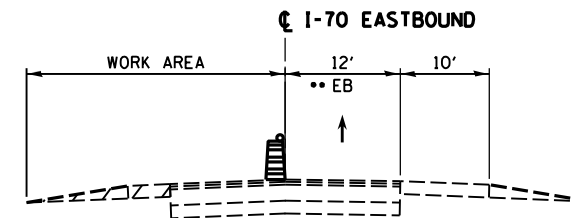


FILE NAME =	USER NAME = hoffmanj	DESIGNED - TN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION SPECIAL I-70 UNDER IL 4 - STAGE 3	F.A.I. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH2MHILL®	60-(11,12) RS-3	MADISON	242			101				
PLOT SCALE = 100.0000' / 1" =	CHECKED - GL	REVISED -	DRAWING NO. CONTRACT NO. 76F13							
PLOT DATE = 6/27/2014	DATE - 4/18/2014	REVISED -	ILLINOIS FED. AID PROJECT							
					SCALE:	SHEET NO. 8 OF 24 SHEETS	STA.	TO STA.		

LEGEND	
	WORK AREA
	IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
	DIRECTION OF TRAVEL/LANE MAINTAINED
	BARRICADES OR DRUMS
	TEMPORARY CONCRETE BARRIER
	TEMPORARY PAVEMENT MARKING

NOTES:

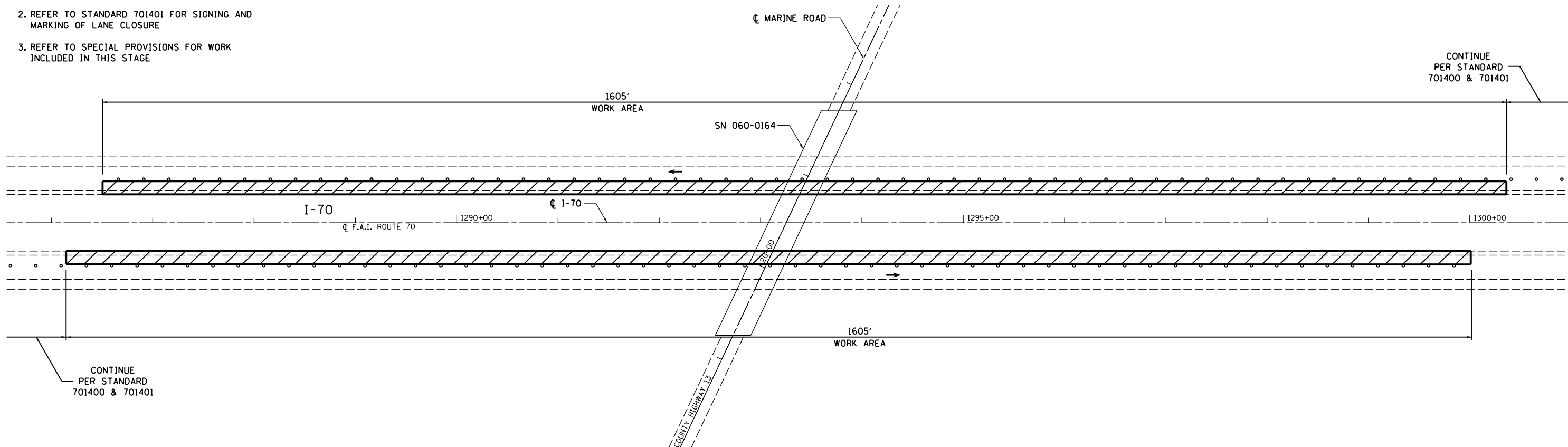
1. REFER TO STANDARD 701400 FOR SIGNING AND MARKING OF APPROACH TO LANE CLOSURE
2. REFER TO STANDARD 701401 FOR SIGNING AND MARKING OF LANE CLOSURE
3. REFER TO SPECIAL PROVISIONS FOR WORK INCLUDED IN THIS STAGE



SECTION - I-70 EASTBOUND

SECTION APPLIES TO I-70 WESTBOUND

•• LANES SHIFTED AS SHOWN IN STAGING PLANS



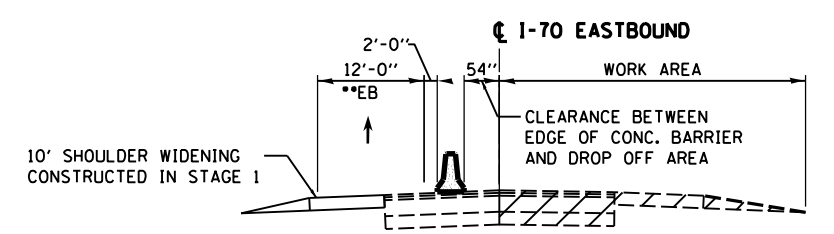
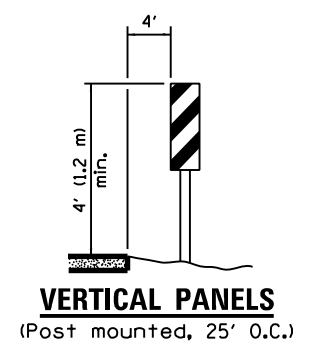
CONTINUE PER STANDARD 701400 & 701401

CONTINUE PER STANDARD 701400 & 701401

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	PLOT SCALE = 100.0000' / in.	CHECKED - GL	DATE = 4/18/2014			REVISED -	SCALE:	SHEET NO. 9 OF 24 SHEETS	STA. TO STA.	DRAWING NO.

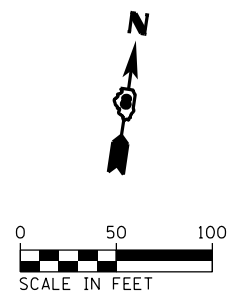
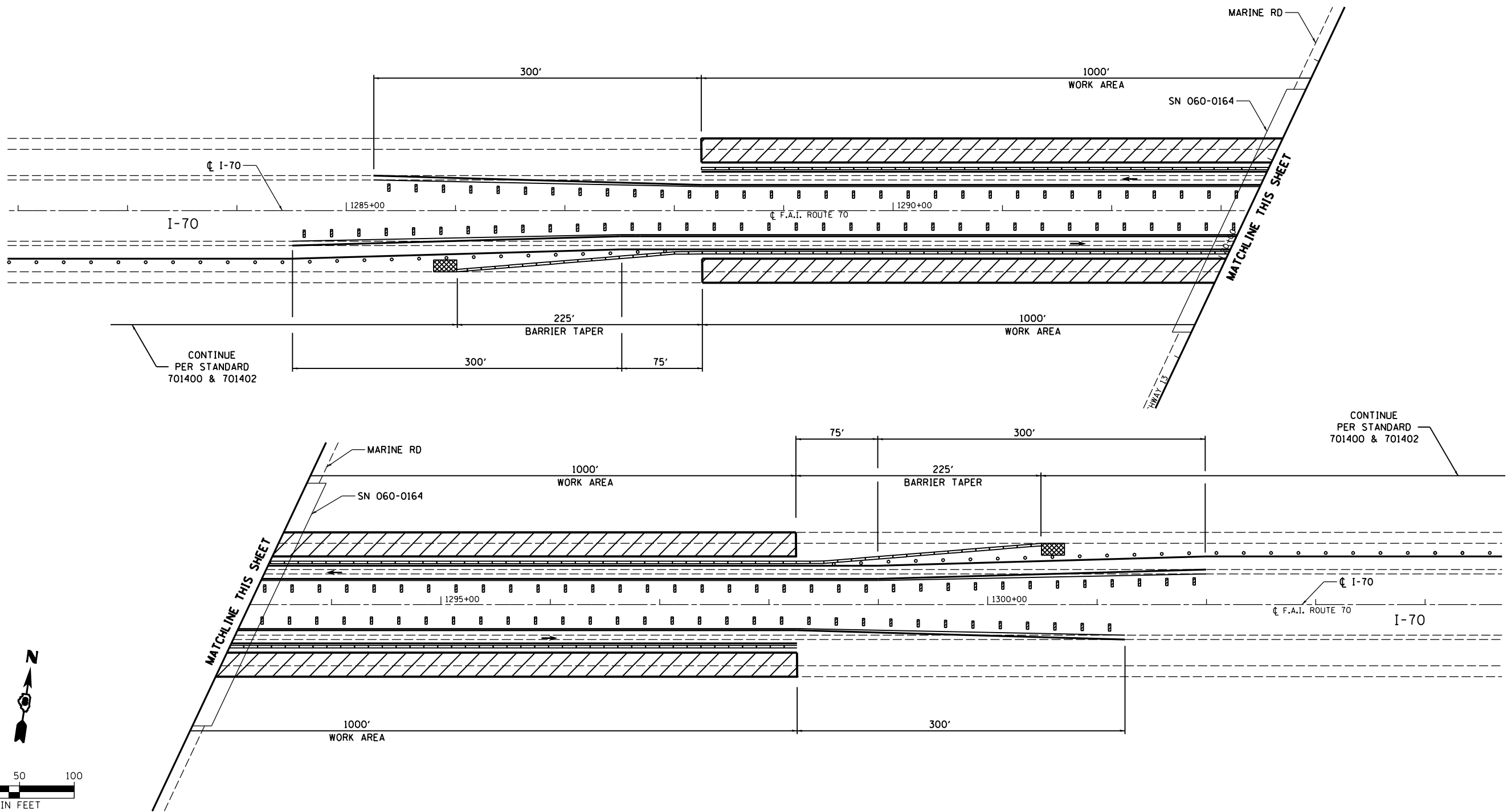
LEGEND	
	WORK AREA
	IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
	DIRECTION OF TRAVEL/LANE MAINTAINED
	BARRICADES OR DRUMS
	VERTICAL PANELS
	TEMPORARY CONCRETE BARRIER
	TEMPORARY PAVEMENT MARKING

- NOTES:**
1. REFER TO STANDARD 701400 FOR SIGNING AND MARKING OF APPROACH TO LANE CLOSURE
 2. REFER TO STANDARD 701402 FOR SIGNING AND MARKING OF LANE CLOSURE
 3. REFER TO SPECIAL PROVISIONS FOR WORK INCLUDED IN THIS STAGE



•• LANES SHIFTED AS SHOWN IN STAGING PLANS

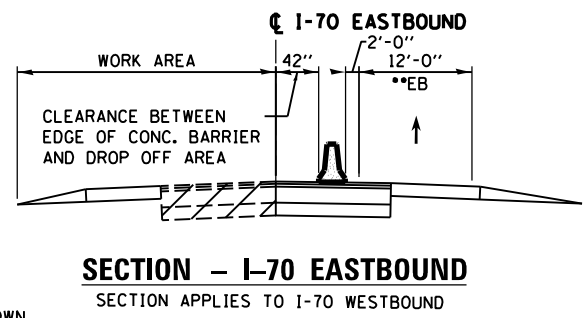
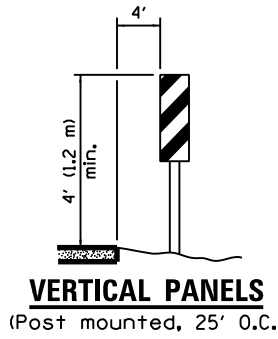
SECTION - I-70 EASTBOUND
SECTION APPLIES TO I-70 WESTBOUND



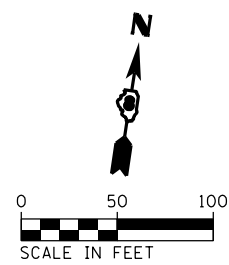
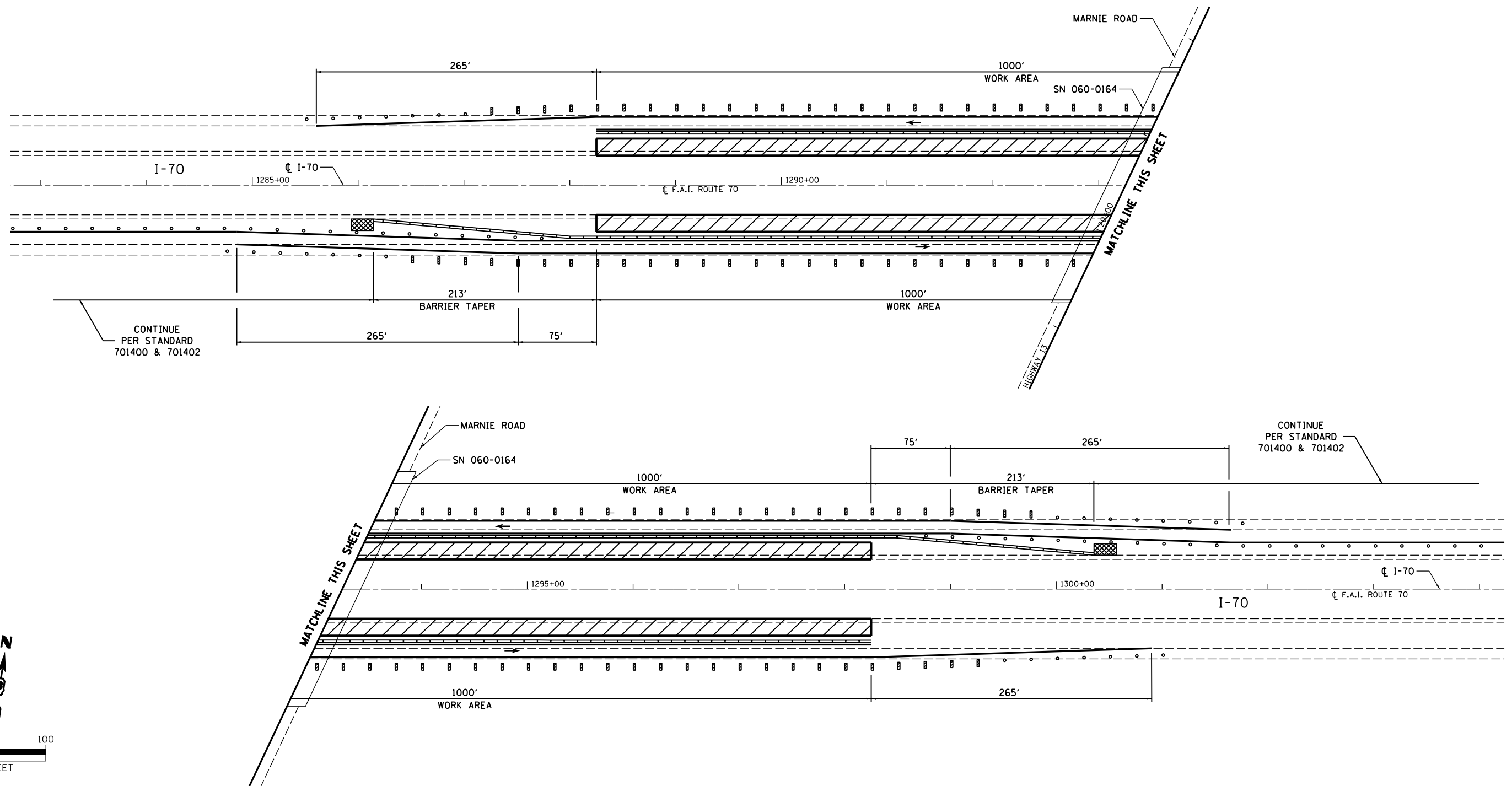
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	PLOT DATE = 6/27/2014	SCALE: SHEET NO. 10 OF 24 SHEETS STA. TO STA.					

LEGEND	
	WORK AREA
	IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
	DIRECTION OF TRAVEL/LANE MAINTAINED
	BARRICADES OR DRUMS
	VERTICAL PANELS
	TEMPORARY CONCRETE BARRIER
	TEMPORARY PAVEMENT MARKING







- NOTES:**
- REFER TO STANDARD 701400 FOR SIGNING AND MARKING OF APPROACH TO LANE CLOSURE
 - REFER TO STANDARD 701402 FOR SIGNING AND MARKING OF LANE CLOSURE
 - WHERE POST FOR VERTICAL PANELS WOULD FALL WITHIN EXISTING HMA SHOULDER, USE BARRICADES OR DRUMS
 - REFER TO SPECIAL PROVISIONS FOR WORK INCLUDED IN THIS STAGE



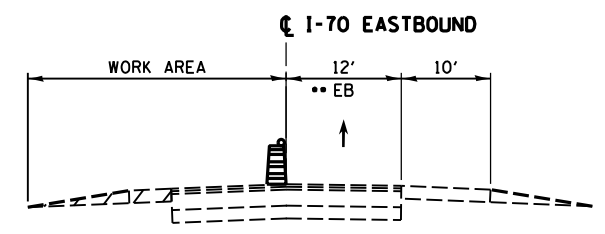
** LANES SHIFTED AS SHOWN IN STAGING PLANS



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	PLOT SCALE = 100.0000' / 1"	CHECKED - GL	DATE = 4/18/2014			REVISED -	SCALE:	SHEET NO. 11 OF 24 SHEETS	STA. TO STA.	DRAWING NO.

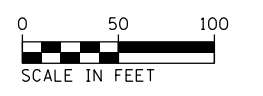
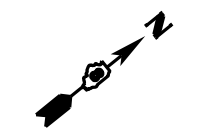
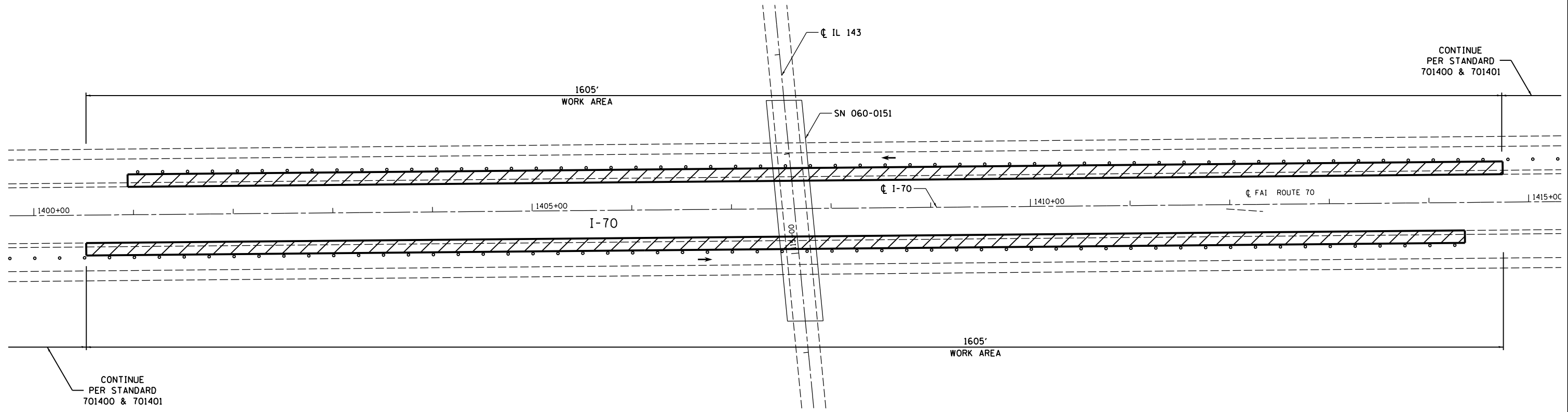
LEGEND	
	WORK AREA
	IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
	DIRECTION OF TRAVEL/LANE MAINTAINED
	BARRICADES OR DRUMS
	TEMPORARY CONCRETE BARRIER
	TEMPORARY PAVEMENT MARKING

- NOTES:
- REFER TO STANDARD 701400 FOR SIGNING AND MARKING OF APPROACH TO LANE CLOSURE
 - REFER TO STANDARD 701401 FOR SIGNING AND MARKING OF LANE CLOSURE
 - REFER TO SPECIAL PROVISIONS FOR WORK INCLUDED IN THIS STAGE

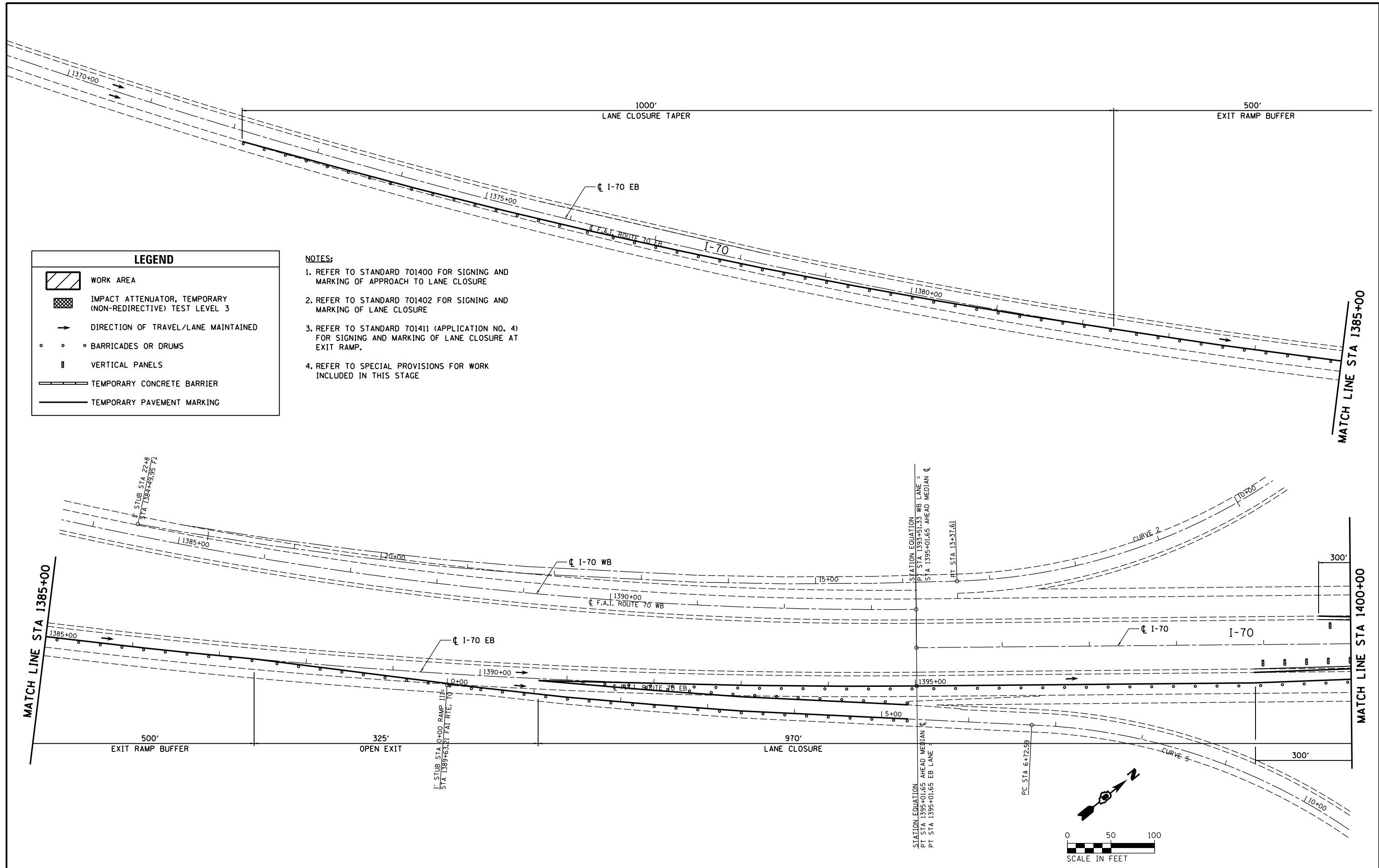


•• LANES SHIFTED AS SHOWN IN STAGING PLANS

SECTION - I-70 EASTBOUND
SECTION APPLIES TO I-70 WESTBOUND



FILE NAME =	USER NAME = hoffmanj	DESIGNED - TN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION SPECIAL I-70 UNDER IL 143 - STAGE 1	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
e:\pwwork\pwwork\hoffmanj\0279918\0876f13-sht-staging-12.dgn						DRAWN - JH	REVISED -	70	60-(11,12) RS-3	MADISON	242	105
PLOT SCALE = 100.0000' / 1" =						CHECKED - GL	REVISED -	DRAWING NO.		CONTRACT NO. 76F13		
PLOT DATE = 6/27/2014						DATE - 4/18/2014	REVISED -	ILLINOIS FED. AID PROJECT				
					SCALE:	SHEET NO. 12 OF 24 SHEETS	STA.	TO STA.				










LEGEND	
	WORK AREA
	IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
	DIRECTION OF TRAVEL/LANE MAINTAINED
	BARRICADES OR DRUMS
	VERTICAL PANELS
	TEMPORARY CONCRETE BARRIER
	TEMPORARY PAVEMENT MARKING

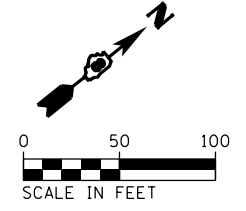
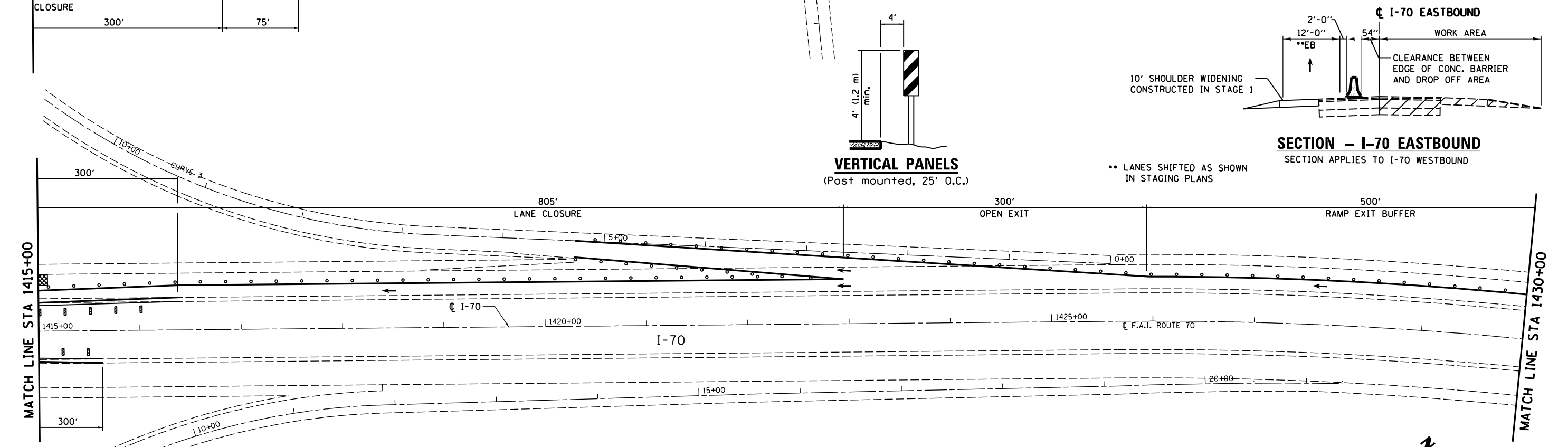
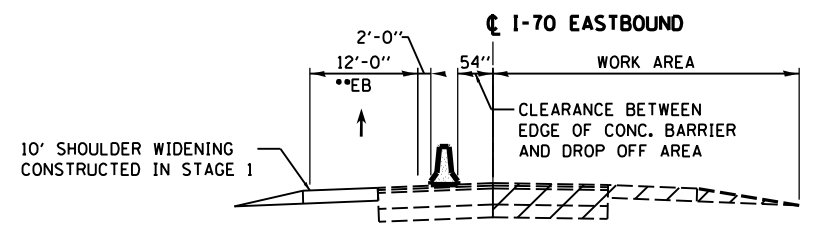
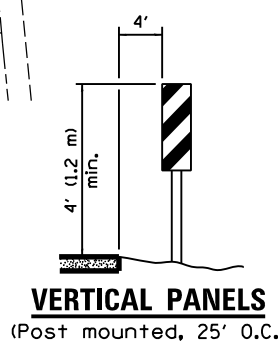
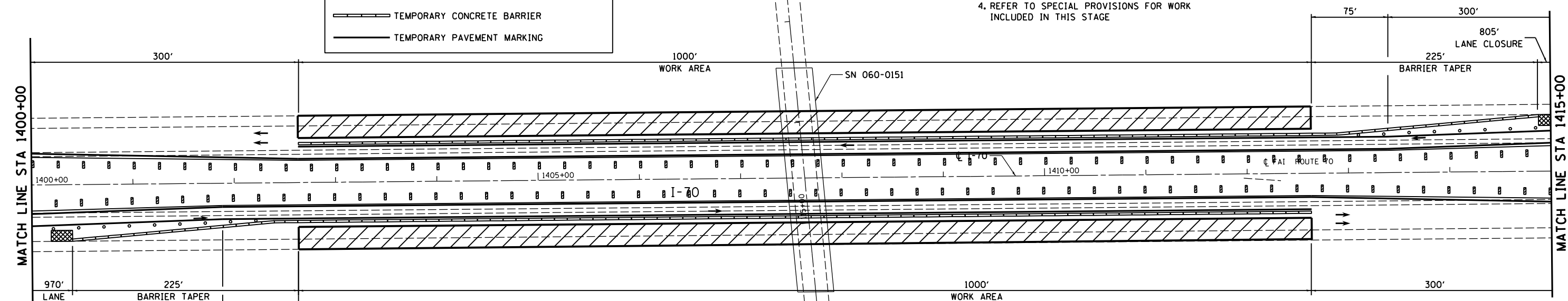
- NOTES:**
1. REFER TO STANDARD 701400 FOR SIGNING AND MARKING OF APPROACH TO LANE CLOSURE
 2. REFER TO STANDARD 701402 FOR SIGNING AND MARKING OF LANE CLOSURE
 3. REFER TO STANDARD 701411 (APPLICATION NO. 4) FOR SIGNING AND MARKING OF LANE CLOSURE AT EXIT RAMP.
 4. REFER TO SPECIAL PROVISIONS FOR WORK INCLUDED IN THIS STAGE

FILE NAME = c:\pwork\work\pwork\hoffman\0279918\087613-sht-staging-13.dgn CH2MHILL	USER NAME = hoffmanj DESIGNED - TN DRAWN - JH CHECKED - GL PLOT SCALE = 100.0000' / 1"	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION SPECIAL I-70 UNDER IL 143 - STAGE 2	F.A.I. RTE. = 70 SECTION = 60-(11,12) RS-3 COUNTY = MADISON TOTAL SHEETS = 242 SHEET NO. = 106
	PLOT DATE = 6/27/2014 DATE = 4/18/2014	SCALE: SHEET NO. 13 OF 24 SHEETS STA. TO STA.			DRAWING NO. CONTRACT NO. 76F13 ILLINOIS FED. AID PROJECT








LEGEND

-  WORK AREA
-  IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
-  DIRECTION OF TRAVEL/LANE MAINTAINED
-  BARRICADES OR DRUMS
-  VERTICAL PANELS
-  TEMPORARY CONCRETE BARRIER
-  TEMPORARY PAVEMENT MARKING

- NOTES:**
- REFER TO STANDARD 701400 FOR SIGNING AND MARKING OF APPROACH TO LANE CLOSURE
 - REFER TO STANDARD 701402 FOR SIGNING AND MARKING OF LANE CLOSURE
 - REFER TO STANDARD 701411 (APPLICATION NO. 4) FOR SIGNING AND MARKING OF LANE CLOSURE AT EXIT RAMP.
 - REFER TO SPECIAL PROVISIONS FOR WORK INCLUDED IN THIS STAGE

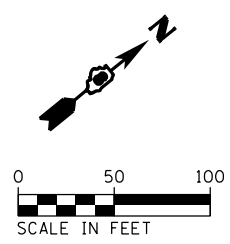
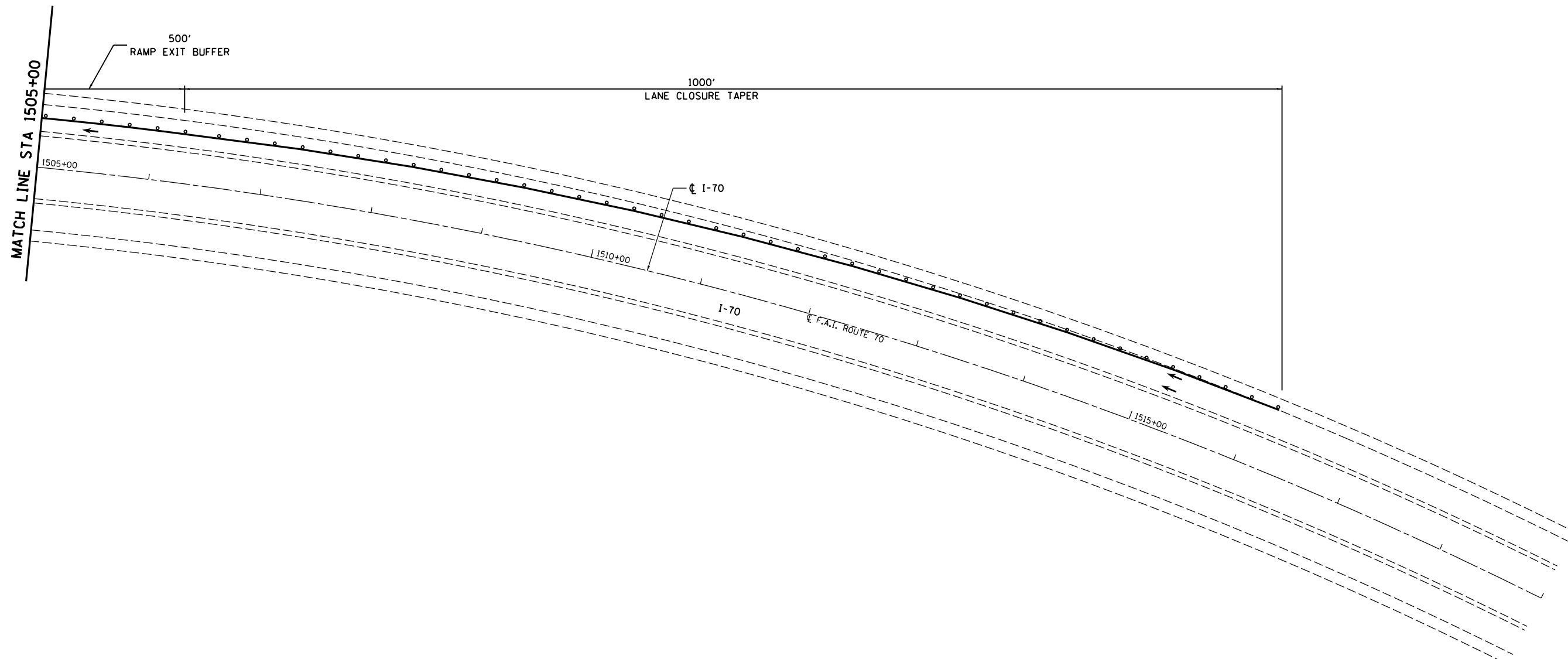


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	SCALE: SHEET NO. 14 OF 24 SHEETS STA. TO STA.		DRAWING NO. CONTRACT NO. 76F13			ILLINOIS FED. AID PROJECT				

LEGEND	
	WORK AREA
	IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
	DIRECTION OF TRAVEL/LANE MAINTAINED
	BARRICADES OR DRUMS
	VERTICAL PANELS
	TEMPORARY CONCRETE BARRIER
	TEMPORARY PAVEMENT MARKING

NOTES:

1. REFER TO STANDARD 701400 FOR SIGNING AND MARKING OF APPROACH TO LANE CLOSURE
2. REFER TO STANDARD 701402 FOR SIGNING AND MARKING OF LANE CLOSURE
3. REFER TO STANDARD 701411 (APPLICATION NO. 4) FOR SIGNING AND MARKING OF LANE CLOSURE AT EXIT RAMP.
4. REFER TO SPECIAL PROVISIONS FOR WORK INCLUDED IN THIS STAGE



FILE NAME =	USER NAME = hoffmanj	DESIGNED - TN	REVISED -
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	PLOT DATE = 6/27/2014	DATE - 4/18/2014	REVISED -








**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION SPECIAL
I-70 UNDER IL 143 - STAGE 2**

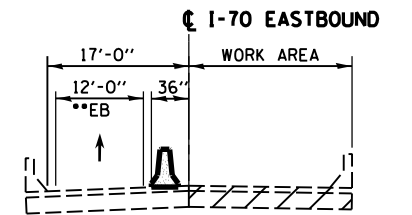
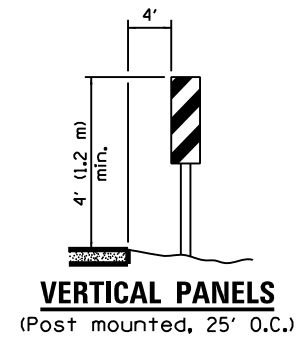
SCALE: SHEET NO. 15 OF 24 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12) RS-3	MADISON	242	108
DRAWING NO.		CONTRACT NO. 76F13		
ILLINOIS FED. AID PROJECT				



LEGEND	
	WORK AREA
	IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
	DIRECTION OF TRAVEL/LANE MAINTAINED
	BARRICADES OR DRUMS
	VERTICAL PANELS
	TEMPORARY CONCRETE BARRIER
	TEMPORARY PAVEMENT MARKING

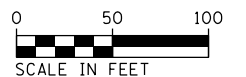
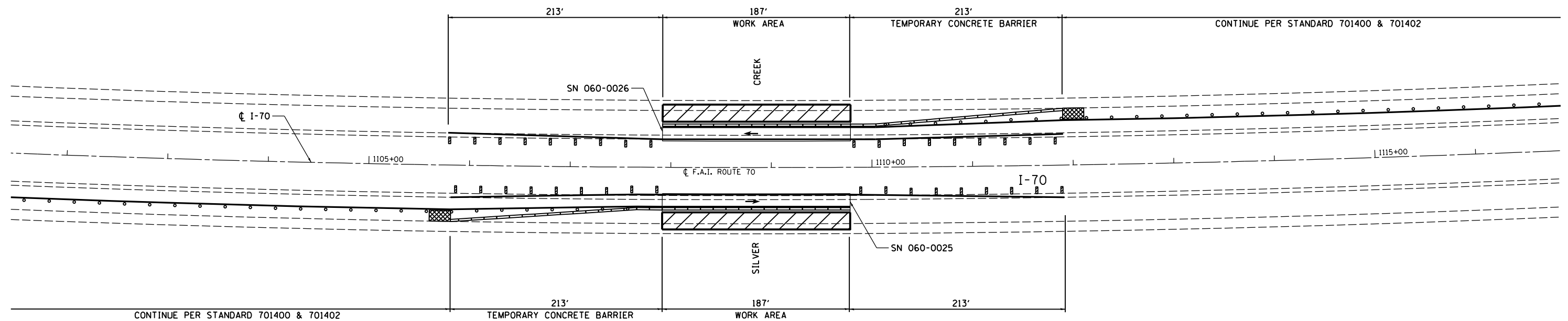
- NOTES:**
- REFER TO STANDARD 701400 FOR SIGNING AND MARKING OF APPROACH TO LANE CLOSURE
 - REFER TO STANDARD 701402 FOR SIGNING AND MARKING OF LANE CLOSURE
 - REFER TO SPECIAL PROVISIONS FOR WORK INCLUDED IN THIS STAGE










SECTION - I-70 EASTBOUND

SECTION APPLIES TO I-70 WESTBOUND

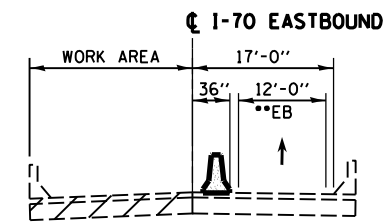
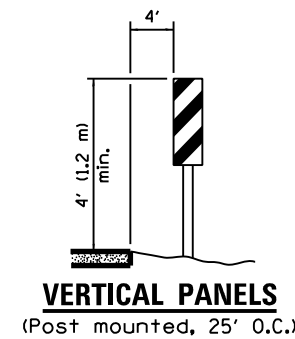
•• LANES SHIFTED AS SHOWN IN STAGING PLANS



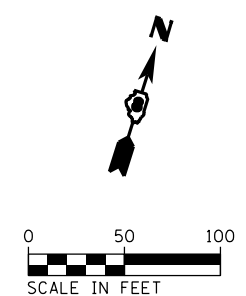
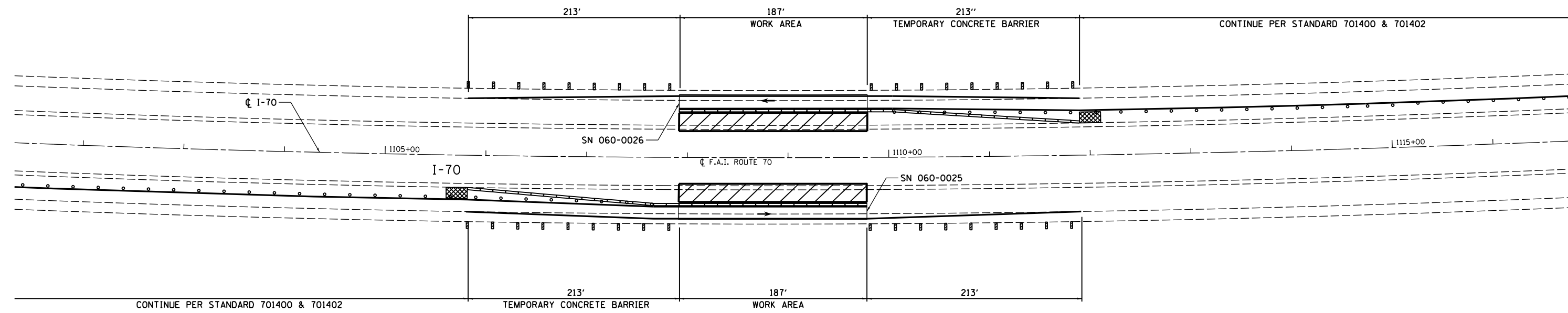
FILE NAME = c:\pwwork\pwwork\hoffmanj\d0279918\d876f13-sht-staging-17.dgn CH2MHILL	USER NAME = hoffmanj PLOT SCALE = 100.0000' / in. PLOT DATE = 6/27/2014	DESIGNED - TN DRAWN - JH CHECKED - GL DATE - 4/18/2014	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION SPECIAL I-70 AT STRUCTURE 060-0025 & 060-0026 - STAGE 2	F.A.I. RTE. = 70 SECTION = 60-(11,12) RS-3 COUNTY = MADISON TOTAL SHEETS = 242 SHEET NO. = 110	DRAWING NO. CONTRACT NO. 76F13	ILLINOIS FED. AID PROJECT
	SCALE:	SHEET NO. 17 OF 24 SHEETS	STA. TO STA.					

LEGEND	
	WORK AREA
	IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
	DIRECTION OF TRAVEL/LANE MAINTAINED
	BARRICADES OR DRUMS
	VERTICAL PANELS
	TEMPORARY CONCRETE BARRIER
	TEMPORARY PAVEMENT MARKING

- NOTES:**
- REFER TO STANDARD 701400 FOR SIGNING AND MARKING OF APPROACH TO LANE CLOSURE
 - REFER TO STANDARD 701402 FOR SIGNING AND MARKING OF LANE CLOSURE
 - REFER TO SPECIAL PROVISIONS FOR WORK INCLUDED IN THIS STAGE

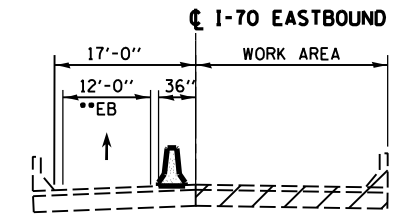
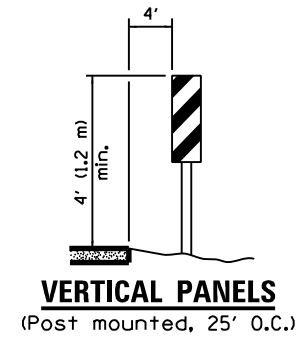


•• LANES SHIFTED AS SHOWN IN STAGING PLANS



FILE NAME = c:\pwwork\pwwork\hoffmanj\0279918\0876f13-sht-staging-18.dgn CH2MHILL	USER NAME = hoffmanj	DESIGNED - TN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION SPECIAL I-70 AT STRUCTURE 060-0025 & 060-0026 - STAGE 3	F.A.I. RTE. = 70	SECTION = 60-(11,12) RS-3	COUNTY = MADISON	TOTAL SHEETS = 242	SHEET NO. = 111
	PLOT SCALE = 100.0000' / in.	CHECKED - GL	DATE = 4/18/2014			REVISED -	DRAWING NO.	CONTRACT NO. 76F13	ILLINOIS FED. AID PROJECT	

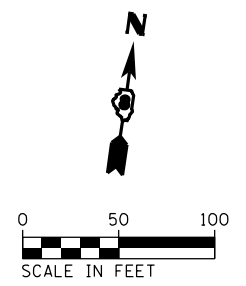
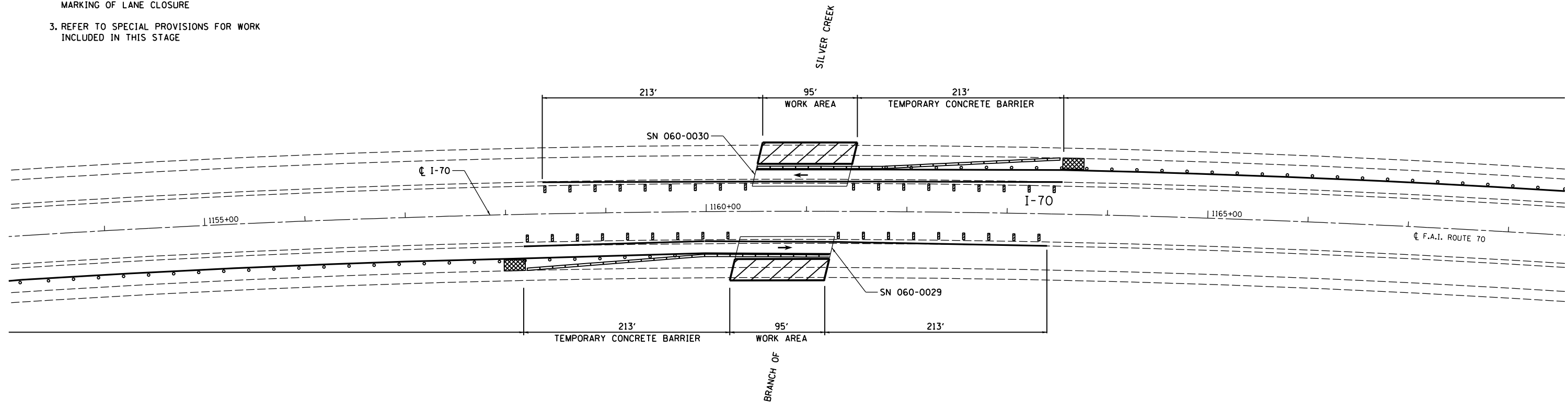
LEGEND	
	WORK AREA
	IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
	DIRECTION OF TRAVEL/LANE MAINTAINED
	BARRICADES OR DRUMS
	VERTICAL PANELS
	TEMPORARY CONCRETE BARRIER
	TEMPORARY PAVEMENT MARKING










•• LANES SHIFTED AS SHOWN IN STAGING PLANS

NOTES:

- REFER TO STANDARD 701400 FOR SIGNING AND MARKING OF APPROACH TO LANE CLOSURE
- REFER TO STANDARD 701402 FOR SIGNING AND MARKING OF LANE CLOSURE
- REFER TO SPECIAL PROVISIONS FOR WORK INCLUDED IN THIS STAGE

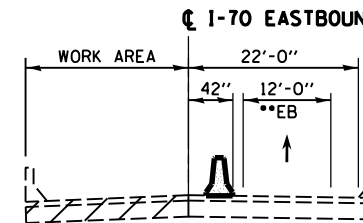
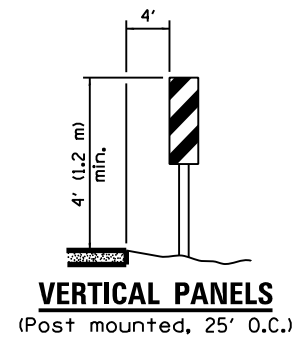


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	PLOT DATE = 6/27/2014					SCALE: SHEET NO. 19 OF 24 SHEETS STA. TO STA.	DRAWING NO.	CONTRACT NO. 76F13	ILLINOIS FED. AID PROJECT	

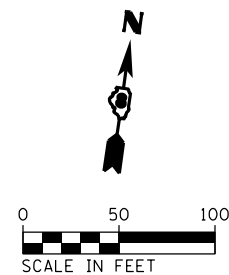
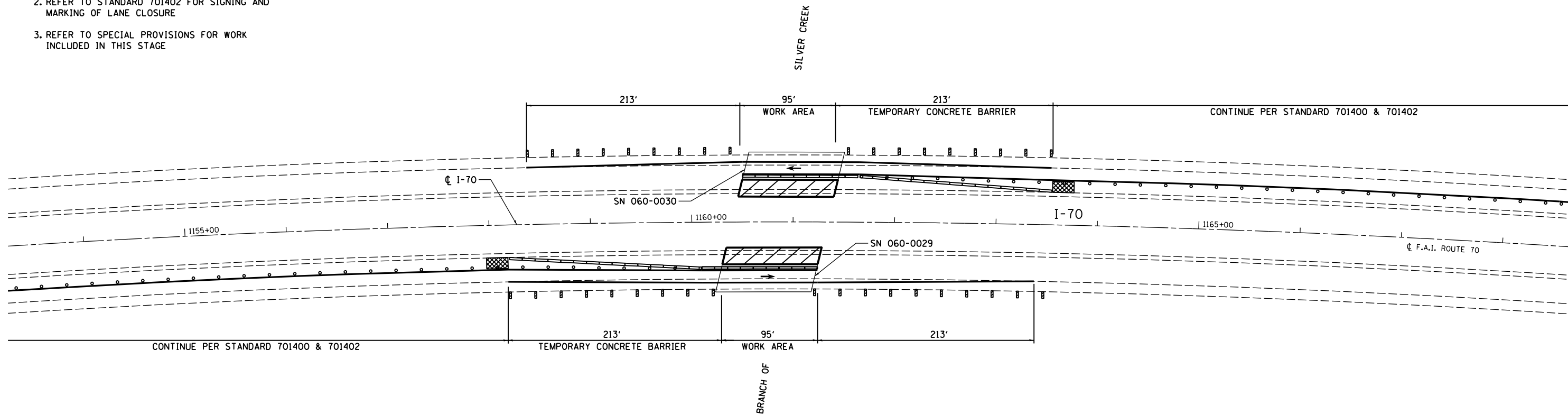
LEGEND	
	WORK AREA
	IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
	DIRECTION OF TRAVEL/LANE MAINTAINED
	BARRICADES OR DRUMS
	VERTICAL PANELS
	TEMPORARY CONCRETE BARRIER
	TEMPORARY PAVEMENT MARKING

NOTES:






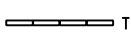

1. REFER TO STANDARD 701400 FOR SIGNING AND MARKING OF APPROACH TO LANE CLOSURE
2. REFER TO STANDARD 701402 FOR SIGNING AND MARKING OF LANE CLOSURE
3. REFER TO SPECIAL PROVISIONS FOR WORK INCLUDED IN THIS STAGE

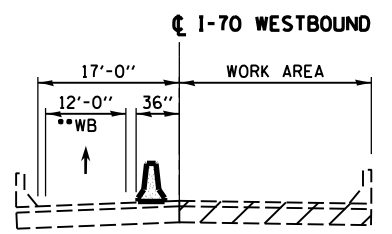
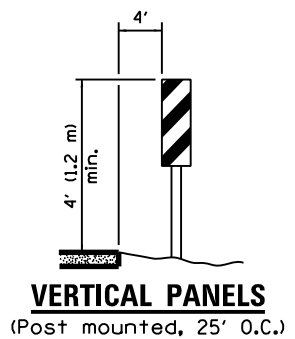


•• LANES SHIFTED AS SHOWN IN STAGING PLANS



FILE NAME = c:\pwwork\pwwork\hoffmanj\0279918\d876f13-sht-staging-20.dgn CH2MHILL	USER NAME = hoffmanj DESIGNED - TN DRAWN - JH PLOT SCALE = 100.0000' / in. PLOT DATE = 6/27/2014	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION SPECIAL I-70 AT STRUCTURE 060-0029 & 060-0030 - STAGE 3	F.A.I. RTE. = 70 SECTION = 60-(11,12) RS-3 COUNTY = MADISON TOTAL SHEETS = 242 SHEET NO. = 113
	SCALE:	SHEET NO. 20 OF 24 SHEETS			STA. TO STA.

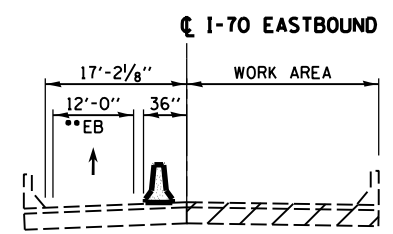
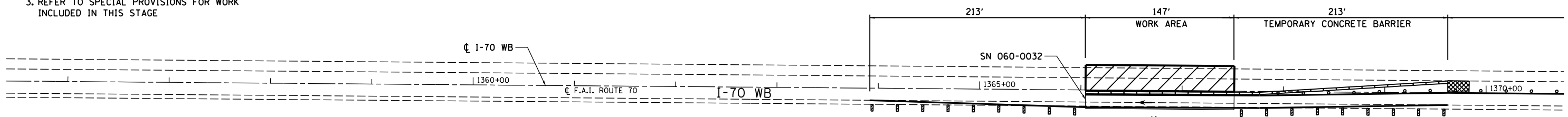
LEGEND	
	WORK AREA
	IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
	DIRECTION OF TRAVEL/LANE MAINTAINED
	BARRICADES OR DRUMS
	VERTICAL PANELS
	TEMPORARY CONCRETE BARRIER
	TEMPORARY PAVEMENT MARKING



SECTION - I-70 WESTBOUND (0032)

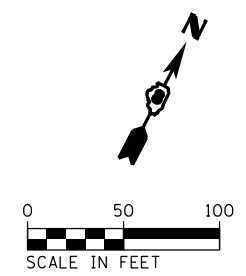
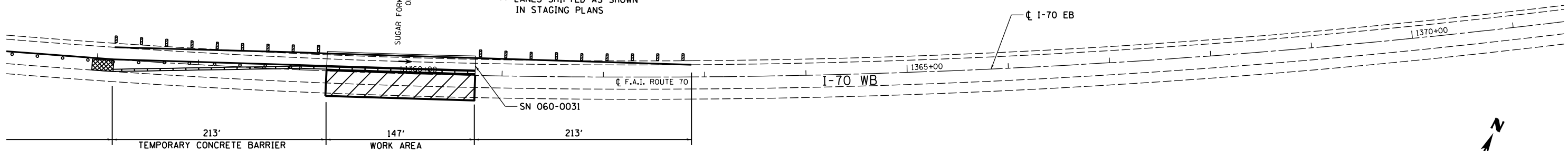
•• LANES SHIFTED AS SHOWN IN STAGING PLANS

- NOTES:**
1. REFER TO STANDARD 701400 FOR SIGNING AND MARKING OF APPROACH TO LANE CLOSURE
 2. REFER TO STANDARD 701402 FOR SIGNING AND MARKING OF LANE CLOSURE
 3. REFER TO SPECIAL PROVISIONS FOR WORK INCLUDED IN THIS STAGE



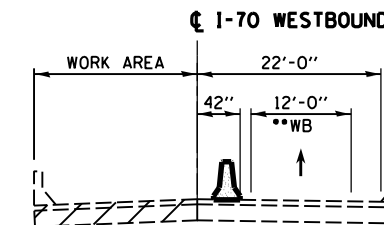
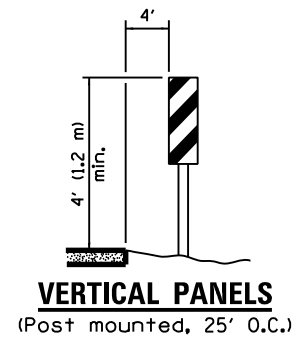
SECTION - I-70 EASTBOUND (0031)

•• LANES SHIFTED AS SHOWN IN STAGING PLANS



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	PLOT SCALE = 100.0000' / in.	CHECKED - GL	DATE - 4/18/2014			REVISED -	SCALE:	SHEET NO. 21 OF 24 SHEETS	STA. TO STA.	DRAWING NO.

LEGEND	
	WORK AREA
	IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
	DIRECTION OF TRAVEL/LANE MAINTAINED
	BARRICADES OR DRUMS
	VERTICAL PANELS
	TEMPORARY CONCRETE BARRIER
	TEMPORARY PAVEMENT MARKING

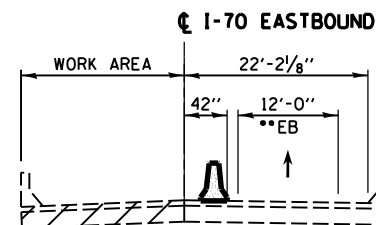
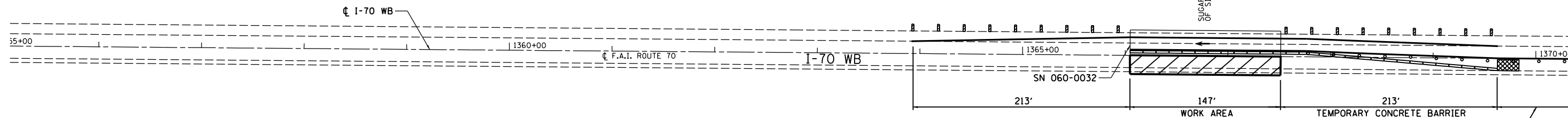


SECTION - I-70 WESTBOUND (0032)

•• LANES SHIFTED AS SHOWN IN STAGING PLANS

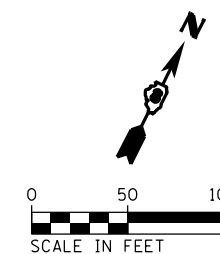
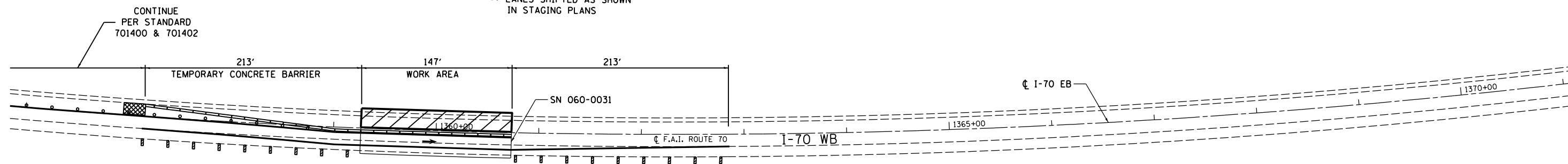
NOTES:

1. REFER TO STANDARD 701400 FOR SIGNING AND MARKING OF APPROACH TO LANE CLOSURE
2. REFER TO STANDARD 701402 FOR SIGNING AND MARKING OF LANE CLOSURE
3. REFER TO SPECIAL PROVISIONS FOR WORK INCLUDED IN THIS STAGE

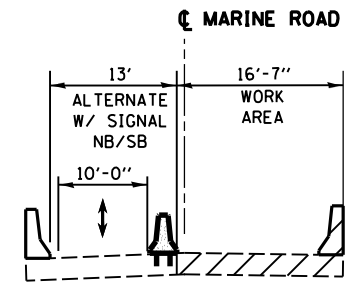


SECTION - I-70 EASTBOUND (0031)

•• LANES SHIFTED AS SHOWN IN STAGING PLANS



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	PLOT SCALE = 100.0000' / in.	CHECKED - GL	DATE - 4/18/2014			SCALE:	SHEET NO. 22 OF 24 SHEETS	STA. TO STA.	DRAWING NO. CONTRACT NO. 76F13	

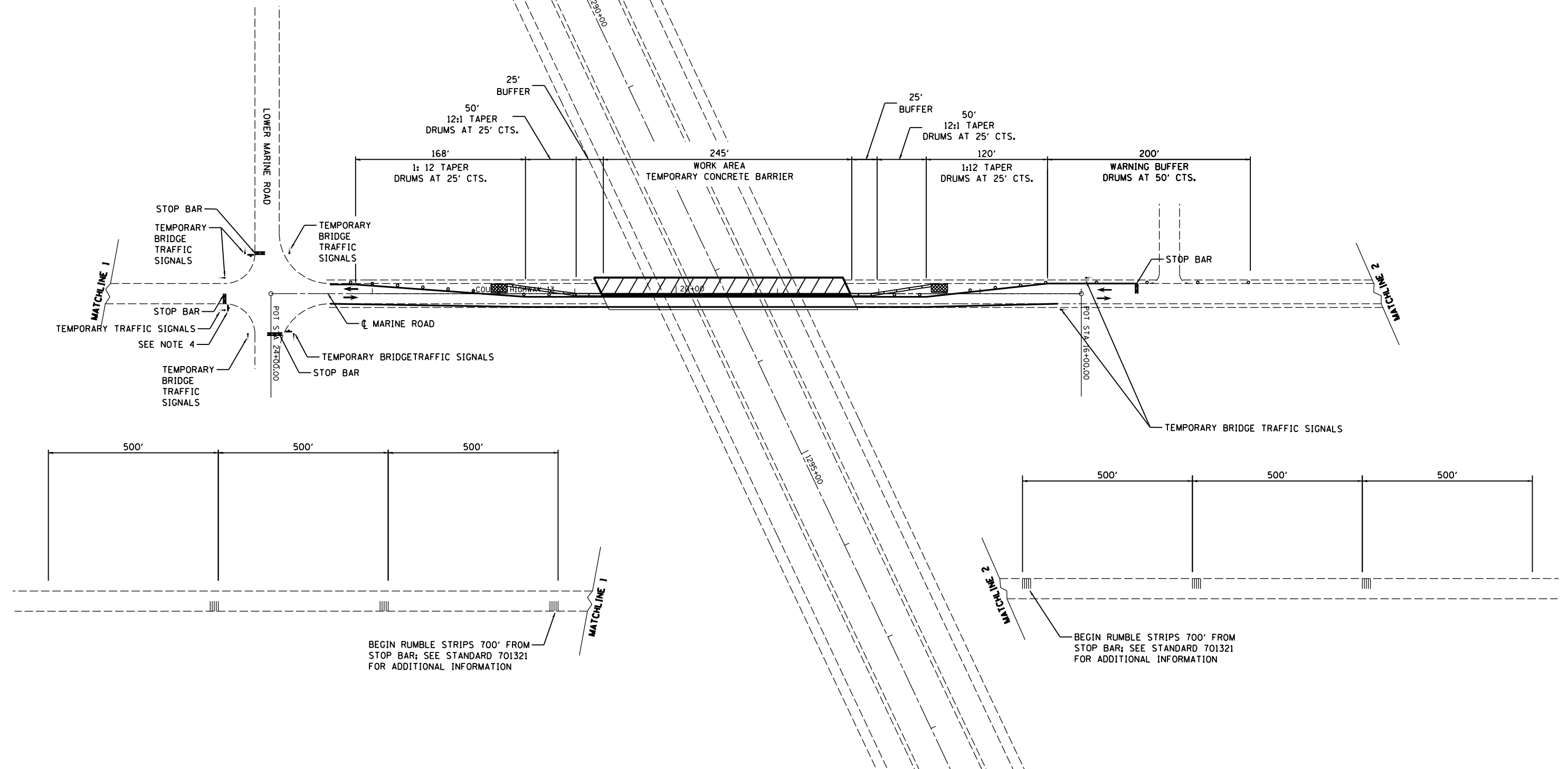
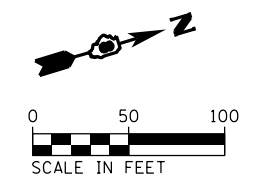


SECTION - MARINE ROAD
SECTION THROUGH WORK ZONE

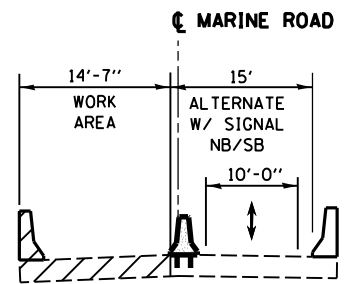
LEGEND

- WORK AREA
- IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
- DIRECTION OF TRAVEL/LANE MAINTAINED
- BARRICADES OR DRUMS
- TEMPORARY CONCRETE BARRIER
- TEMPORARY BRIDGE TRAFFIC SIGNALS
- TEMPORARY PAVEMENT MARKING
- STOP BAR, TEMPORARY PAVEMENT MARKING

- NOTES:**
1. REFER TO STANDARD 701321 FOR SIGNING AND MARKING OF LANE CLOSURE, 2 LANE, 2 WAY, BRIDGE REPAIR WITH BARRIER. FOR SIGN W-13-110-2424 USE 15 MPH.
 2. DO NOT BLOCK ENTRANCES TO DRIVEWAYS WITH TRAFFIC CONTROL DEVICES.
 3. BRIDGE MAXIMUM WIDTH = 10'-0". SIGN W12-1102(0)-48 WILL READ THIS WIDTH.
 4. PLACE SIGN R10-11a "NO TURN ON RED" AT SIGNAL LOCATIONS AT INTERSECTION



FILE NAME =	USER NAME = hoffmanj	DESIGNED - TN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION SPECIAL MARINE ROAD OVER I-70 (SN 060-0164) - STAGE 1	F.A.I. RTE. 70	SECTION 60-(11,12) RS-3	COUNTY MADISON	TOTAL SHEETS 242	SHEET NO. 116		
CH2MHILL	PLLOT SCALE = 100.0000' / 1"	CHECKED - GL	REVISED -			SCALE:	SHEET NO. 23 OF 24 SHEETS	STA.	TO STA.	DRAWING NO. CONTRACT NO. 76F13		
	PLLOT DATE = 6/27/2014	DATE - 4/18/2014	REVISED -			ILLINOIS FED. AID PROJECT						

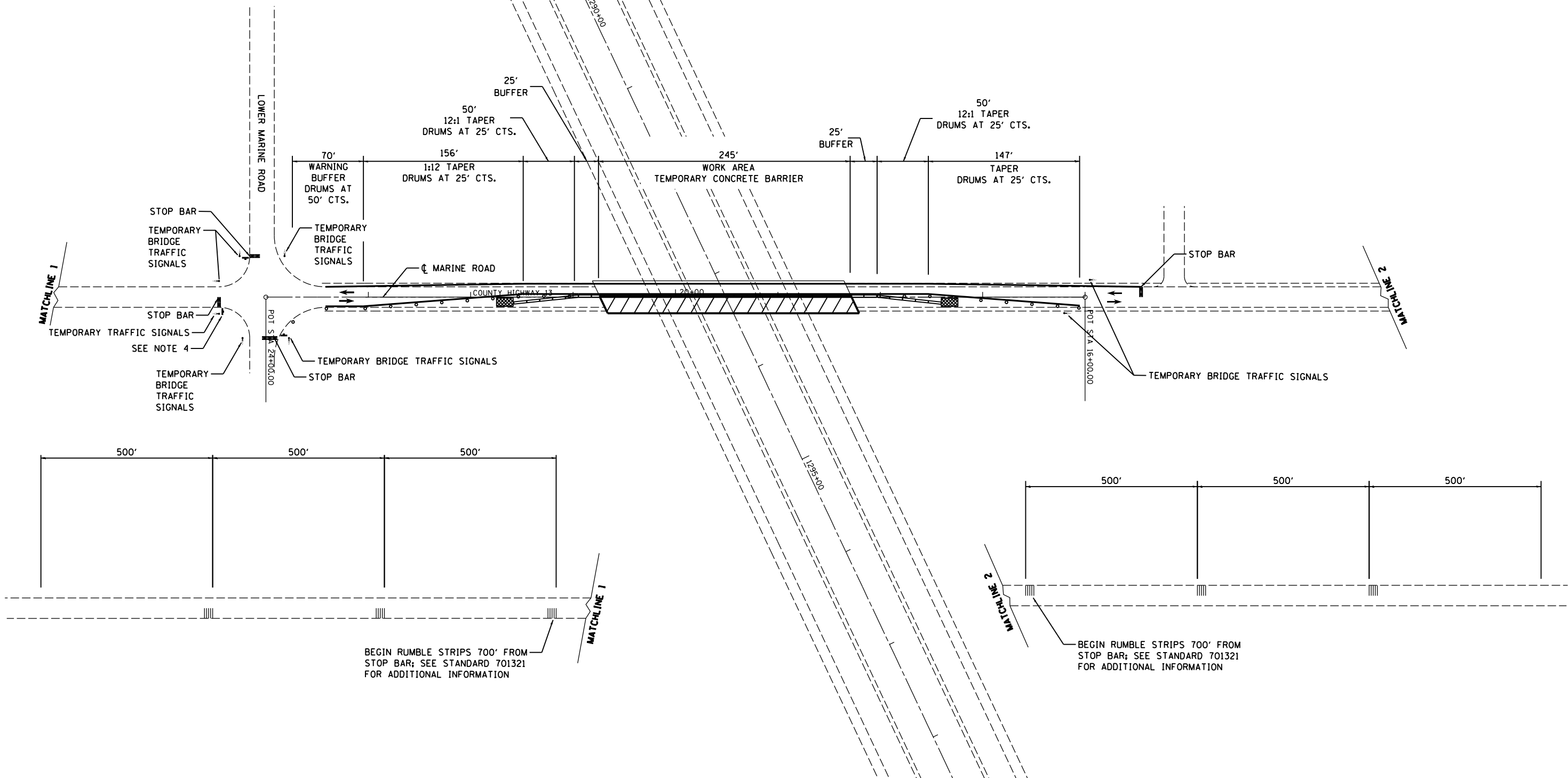
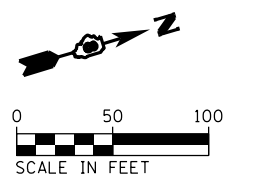


SECTION - MARINE ROAD
SECTION THROUGH WORK ZONE

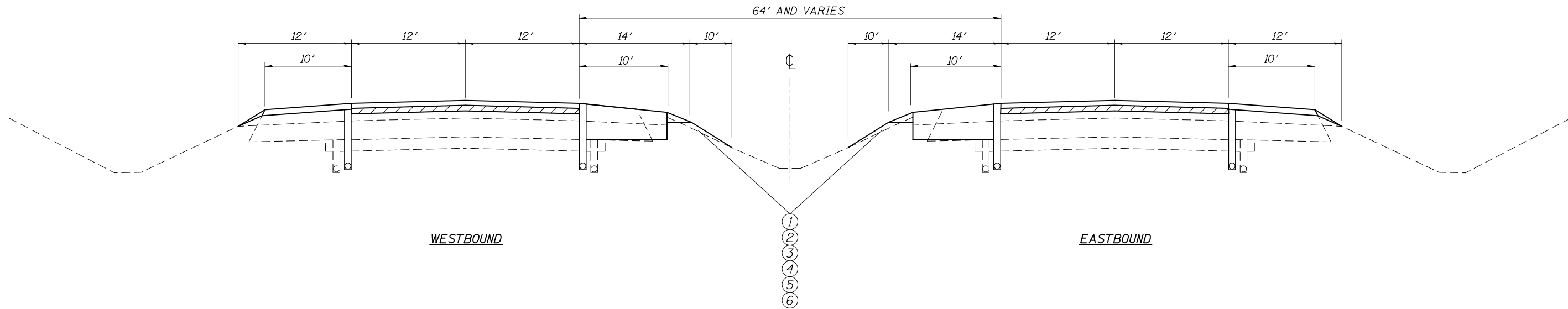
LEGEND

- WORK AREA
- IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
- DIRECTION OF TRAVEL/LANE MAINTAINED
- BARRICADES OR DRUMS
- TEMPORARY CONCRETE BARRIER
- TEMPORARY BRIDGE TRAFFIC SIGNALS
- TEMPORARY PAVEMENT MARKING
- STOP BAR, TEMPORARY PAVEMENT MARKING

- NOTES:**
1. REFER TO STANDARD 701321 FOR SIGNING AND MARKING OF LANE CLOSURE, 2 LANE, 2 WAY, BRIDGE REPAIR WITH BARRIER, FOR SIGN W-13-1(0)-2424 USE 15 MPH, TRAFFIC CONTROL DEVICES.
 2. DO NOT BLOCK ENTRANCES TO DRIVEWAYS WITH TRAFFIC CONTROL DEVICES.
 3. BRIDGE MAXIMUM WIDTH = 10'-0". SIGN W12-1102(0)-48 WILL READ THIS WIDTH.
 4. PLACE SIGN R10-11a "NO TURN ON RED" AT SIGNAL LOCATIONS AT INTERSECTION

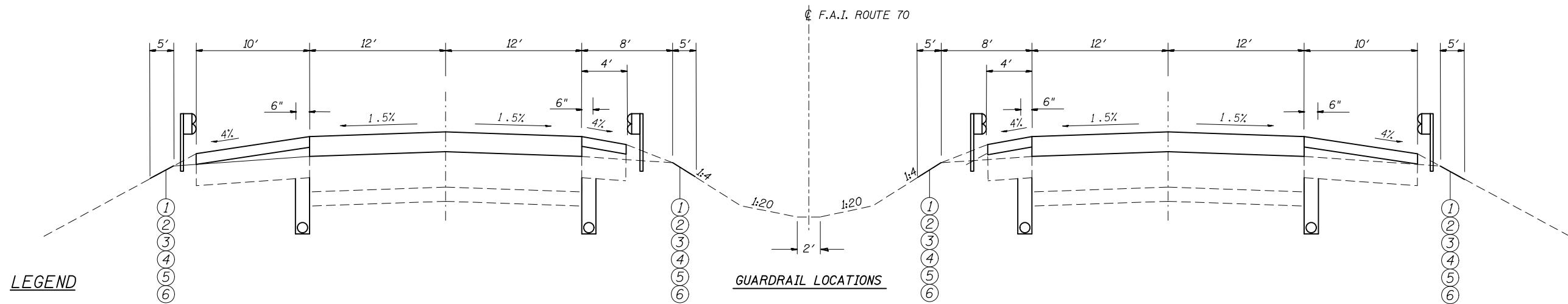


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			SCALE:	SHEET NO. 24 OF 24 SHEETS	STA.	TO STA.	



TYPICAL EROSION CONTROL SECTION F.A.I. 70
 2.5 MI EAST OF I-270/55 INTERCHANGE TO 0.1 MI W OF PRAIRIE RD
 STA. 1028+40.00 TO STA. 1588+00.00

I 70 UNDERPASS LOCATIONS EB & WB
 STA 1084+00.00 TO STA 1094+00.00
 STA 1222+50.00 TO STA 1232+50.00
 STA 1288+20.00 TO STA 1298+20.00
 STA 1402+63.21 TO STA 1412+63.21



- LEGEND**
- ① PROPOSED SEEDING CLASS 2A
 - ② PROPOSED NITROGEN FERTILIZER NUTRIENT
 - ③ PROPOSED PHOSPHOROUS FERTILIZER NUTRIENT
 - ④ PROPOSED POTASSIUM FERTILIZER NUTRIENT
 - ⑤ PROPOSED EROSION CONTROL BLANKET
 - ⑥ PROPOSED TEMPORARY EROSION CONTROL SEEDING

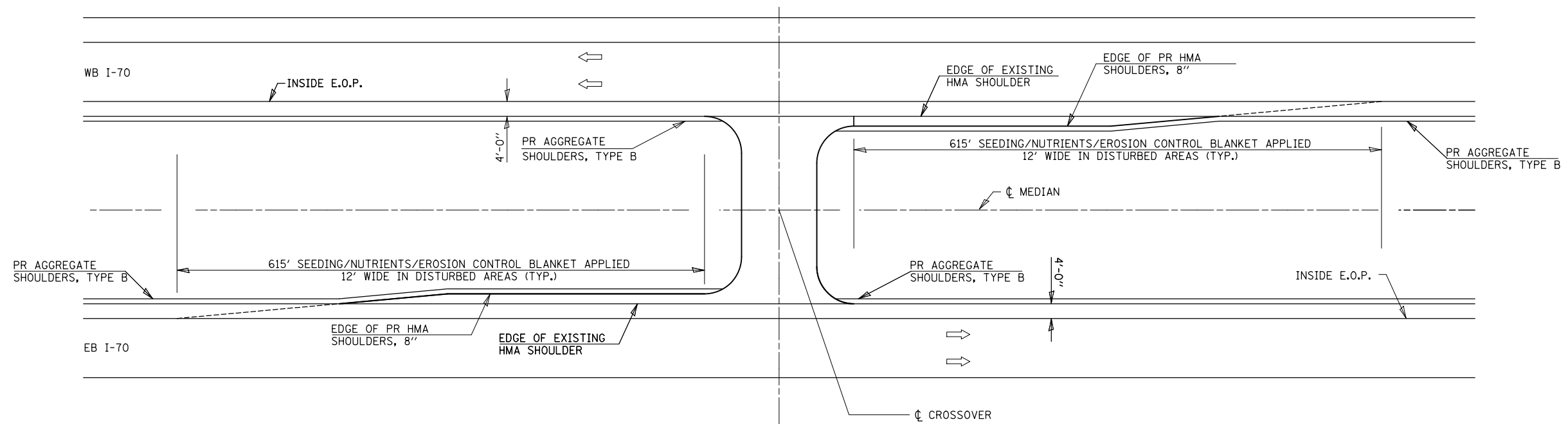
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	PLOT SCALE = \$SCALE*	CHECKED -	REVISED -
	PLOT DATE = \$DATE*	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EROSION CONTROL DETAIL

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	118
CONTRACT NO. 76F13			ILLINOIS FED. AID PROJECT	

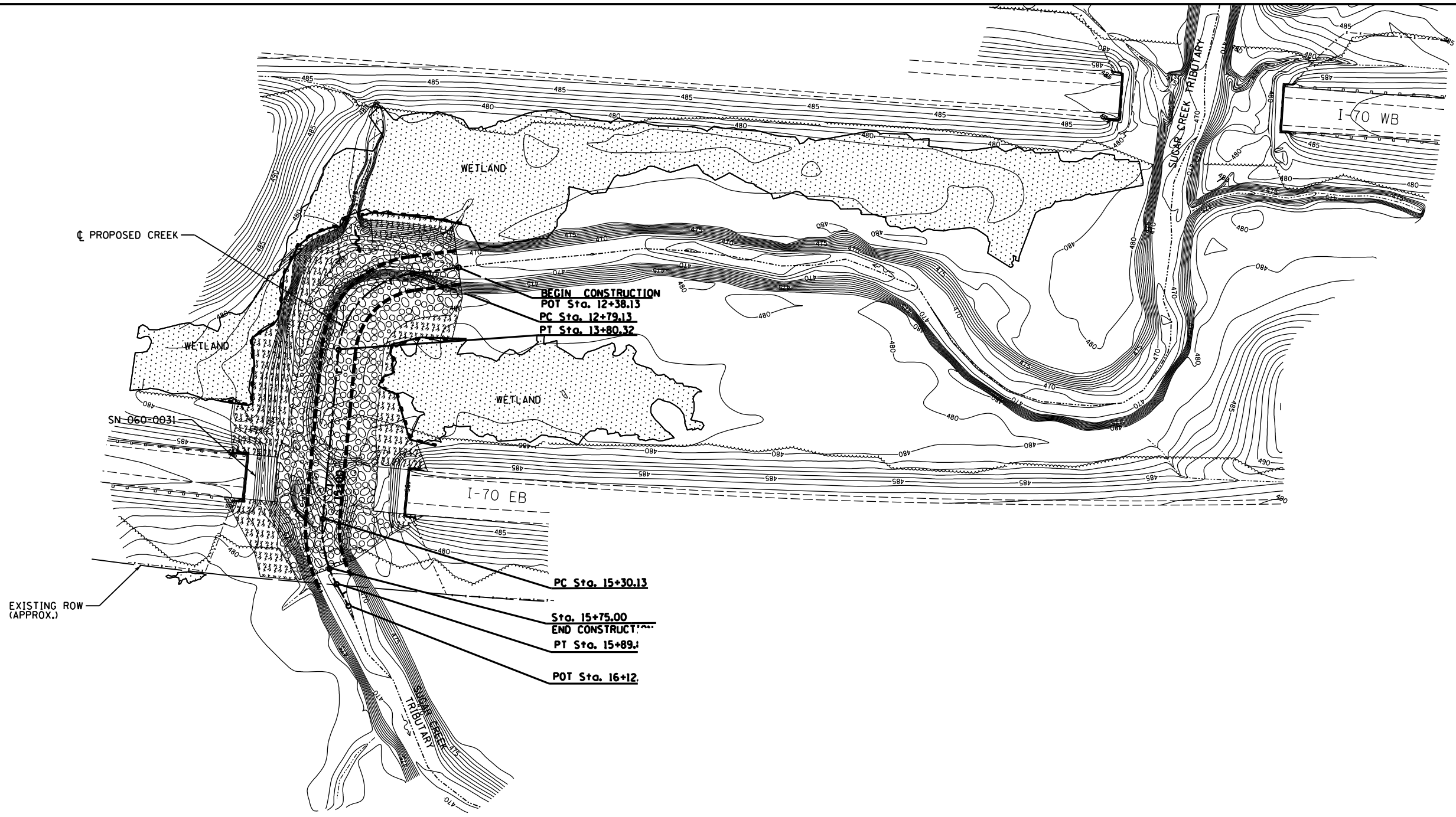
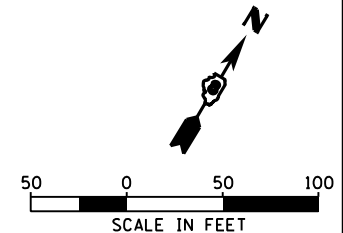


CROSSOVER SHOULDER WIDENING AREAS
SEEDING AND MULCH AREA DETAIL

STA. 1139+72
STA. 1271+25
STA. 1517+58

SEE SEEDING & EROSION CONTROL SCHEDULE.

FILE NAME = *FILEL*	USER NAME = *USER*	DESIGNED - JBW	REVISED - I	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL DETAIL			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = *SCALE*	CHECKED -	REVISED -					70	60-(11,12)RS-3	MADISON	242	120
PLOT DATE = *DATE*	DATE -	REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 76F13 ILLINOIS FED. AID PROJECT		



PROP. CURVE PROPCKCL-1
 PI STA. = 13+39.11
 $\Delta = 77^\circ 17' 59''$ (LT)
 D = 76' 23' 40"
 R = 75.00'
 T = 59.98'
 L = 101.19'
 E = 21.03'
 P.C. STA. = 12+79.13
 P.T. STA. = 13+80.32

PROP. CURVE PROPCKCL-2
 PI STA. = 15+60.91
 $\Delta = 34^\circ 12' 54''$ (LT)
 D = 57' 17' 45"
 R = 100.00'
 T = 30.78'
 L = 59.72'
 E = 4.63'
 P.C. STA. = 15+30.13
 P.T. STA. = 15+89.84

EROSION AND SEDIMENT CONTROL GENERAL NOTES:

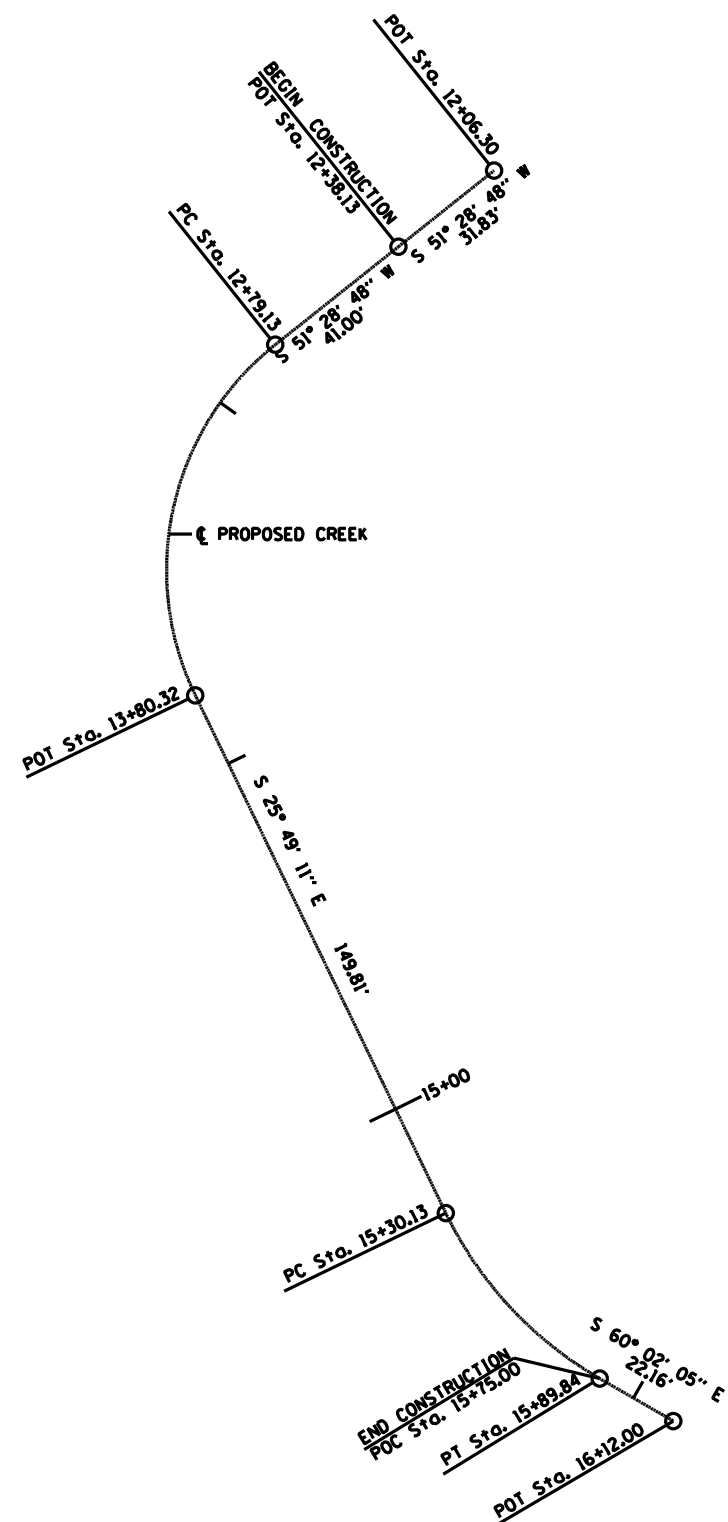
1. THE CONTRACTOR SHALL AVOID THE WETLANDS AT ALL TIMES.
2. ALL AREAS DISTURBED FOR ANY REASON SHALL BE PERMANENTLY SEEDED AS DIRECTED BY THE ENGINEER. ALL AREAS DISTURBED BY THE CONTRACTOR OUTSIDE OF THE LIMITS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN SHALL BE SEEDED AT THE CONTRACTOR'S EXPENSE.
3. CLASS 2A SEEDING AND MULCH IS TO BE PLACED AS SOON AS EARTHWORK IS COMPLETED.

LEGEND

- CLASS 2A SEEDING AND MULCH
- STONE RIPRAP, CLASS A5
- PERIMETER EROSION BARRIER

EFK Moen, LLC
Civil Engineering Design

FILE NAME =	USER NAME = hoffmanj	DESIGNED - DWB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION AND SEDIMENT CONTROL			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pw_work\p\midot\hoffmanj\0402244\110876F13-shr-eros.dgn	PLOT SCALE = 100.0000' / 1" =	DRAWN - JRD	REVISED -					70	60-1112/RS-3	MADISON	242	121
MODELNAME	PLOT DATE = 6/27/2014	CHECKED - CDL	REVISED -		SCALE: 1"=50'			SHEET 1 OF 1 SHEETS STA. TO STA.			CONTRACT NO. 76F13	
		DATE - 5/7/14	REVISED -		ILLINOIS FED. AID PROJECT							



COORDINATE TABLE			
STATION	OFFSET	NORTHING	EASTING
POT STA 12+06.30	0.00	765537.42	2413994.64
POT STA 12+38.13	0.00	765517.60	2413969.74
P.C. STA. 12+79.13	0.00	765492.07	2413937.66
P.I. STA. 13+39.11		765454.71	2413890.73
P.T. STA. 13+80.32	0.00	765400.72	2413916.86
P.C. STA. 15+30.13	0.00	765265.86	2413982.10
P.I. STA. 15+60.91		765238.16	2413995.51
P.T. STA. 15+89.84	0.00	765222.78	2414022.17
POT STA. 16+12.00	0.00	765211.72	2414041.37

PROP. CURVE PROPCKCL-1
 PI STA. = 13+39.11
 Δ = 77° 17' 59" (LT)
 D = 76° 23' 40"
 R = 75.00'
 T = 59.98'
 L = 101.19'
 E = 21.03'
 P.C. STA. = 12+79.13
 P.T. STA. = 13+80.32

PROP. CURVE PROPCKCL-2
 PI STA. = 15+60.91
 Δ = 34° 12' 54" (LT)
 D = 57° 17' 45"
 R = 100.00'
 T = 30.78'
 L = 59.72'
 E = 4.63'
 P.C. STA. = 15+30.13
 P.T. STA. = 15+89.84

FILE NAME =	USER NAME = hoffmanj	DESIGNED - DWB	REVISED -
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MODELNAME	PLOT SCALE = 50.0000' / in.	CHECKED - CDL	REVISED -
	PLOT DATE = 6/27/2014	DATE - 5/7/14	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

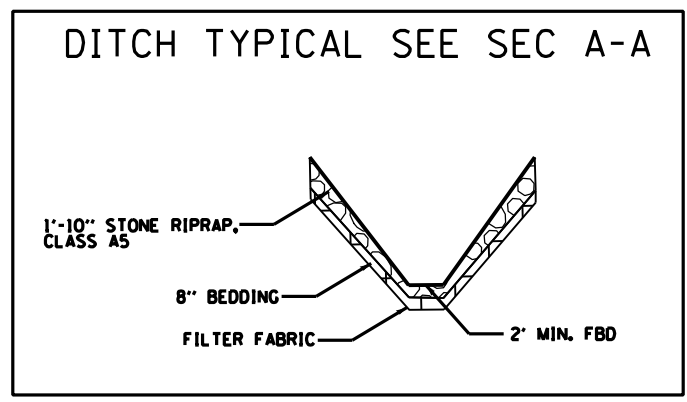
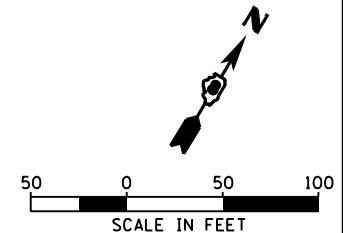
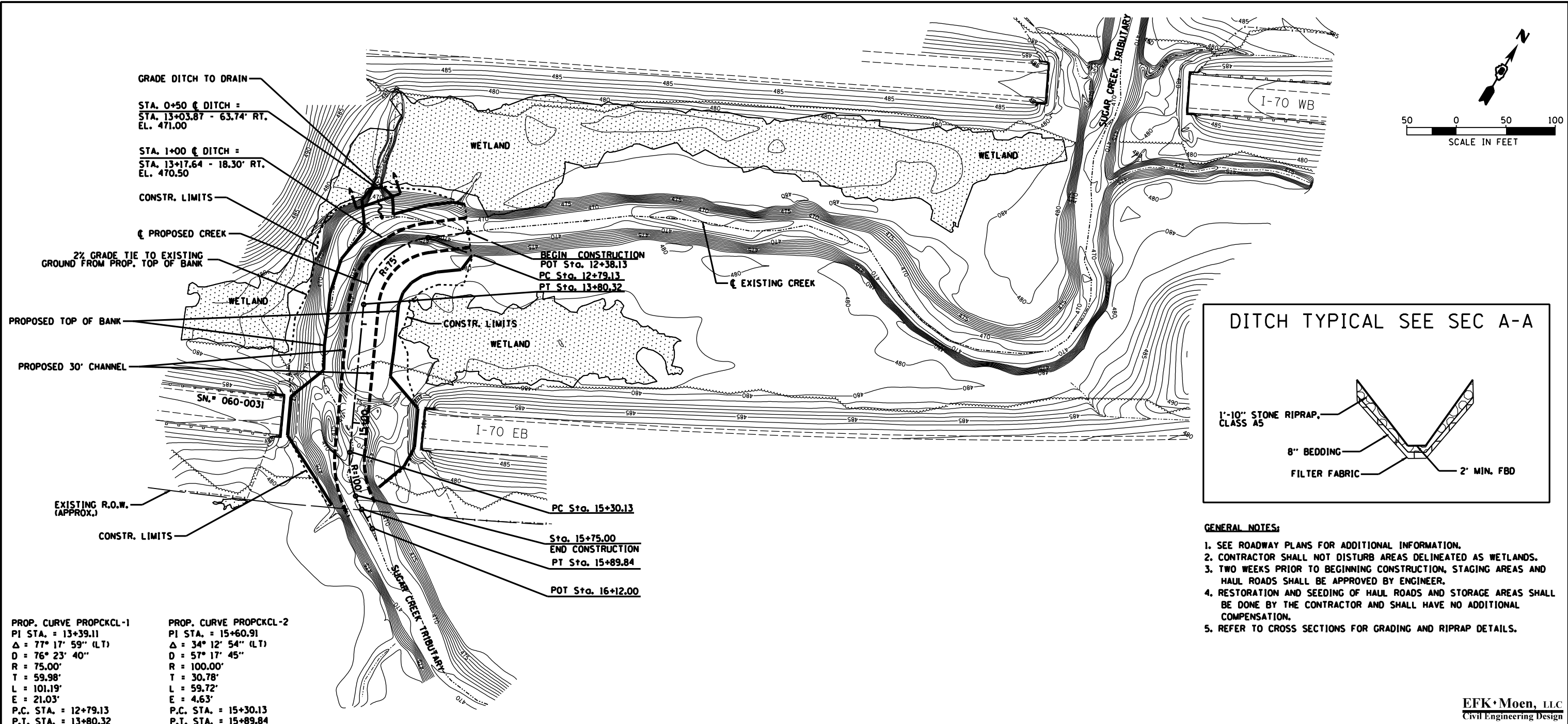
CHANNEL RE-ESTABLISHMENT ALIGNMENT

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. 12+06.30 TO STA. 16+12.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-111,12/RS-3	MADISON	242	123
CONTRACT NO. 76F13				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
PLAN	SURVEYED
	PLOTTED
	ALIGNED
	CHECKED
	FILED
	NO.

DATE	
BY	
PROFILE	SURVEYED
	PLOTTED
	GRADES CHECKED
	STRUCTURE NOTATIONS OK'D
	NO.

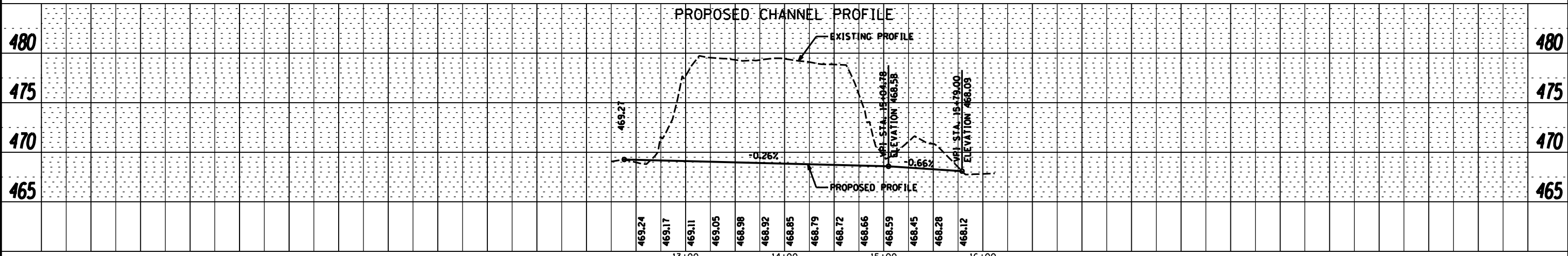


- GENERAL NOTES:**
1. SEE ROADWAY PLANS FOR ADDITIONAL INFORMATION.
 2. CONTRACTOR SHALL NOT DISTURB AREAS DELINEATED AS WETLANDS.
 3. TWO WEEKS PRIOR TO BEGINNING CONSTRUCTION, STAGING AREAS AND HAUL ROADS SHALL BE APPROVED BY ENGINEER.
 4. RESTORATION AND SEEDING OF HAUL ROADS AND STORAGE AREAS SHALL BE DONE BY THE CONTRACTOR AND SHALL HAVE NO ADDITIONAL COMPENSATION.
 5. REFER TO CROSS SECTIONS FOR GRADING AND RIPRAP DETAILS.

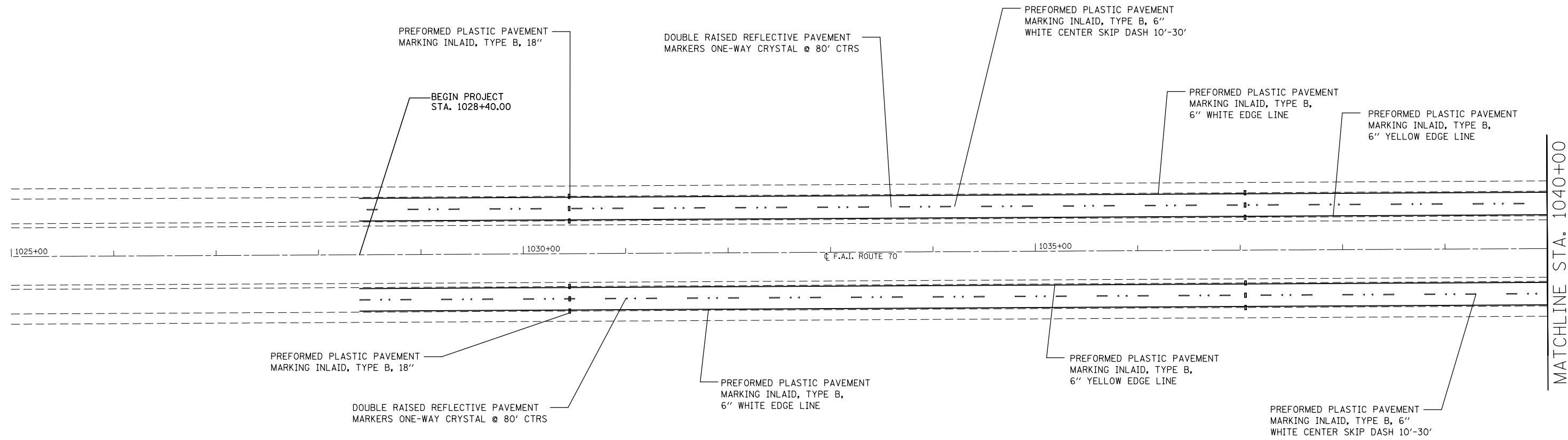
EFK Moen, LLC
Civil Engineering Design

PROP. CURVE PROPCKCL-1
PI STA. = 13+39.11
Δ = 77° 17' 59" (LT)
D = 76° 23' 40"
R = 75.00'
T = 59.98'
L = 101.19'
E = 21.03'
P.C. STA. = 12+79.13
P.T. STA. = 13+80.32

PROP. CURVE PROPCKCL-2
PI STA. = 15+60.91
Δ = 34° 12' 54" (LT)
D = 57° 17' 45"
R = 100.00'
T = 30.78'
L = 59.72'
E = 4.63'
P.C. STA. = 15+30.13
P.T. STA. = 15+89.84



FILE NAME =	USER NAME = hoffmanj	DESIGNED - DWB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN & PROFILE SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. 12+38.13 TO STA. 16+12.00	F.A.I. RTE. = 70	SECTION = 60-(11,12)RS-3	COUNTY = MADISON	TOTAL SHEETS = 242	SHEET NO. = 124	
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	PLOT DATE = 6/27/2014	CHECKED - 5/7/2014	REVISED -			ILLINOIS FED. AID PROJECT					

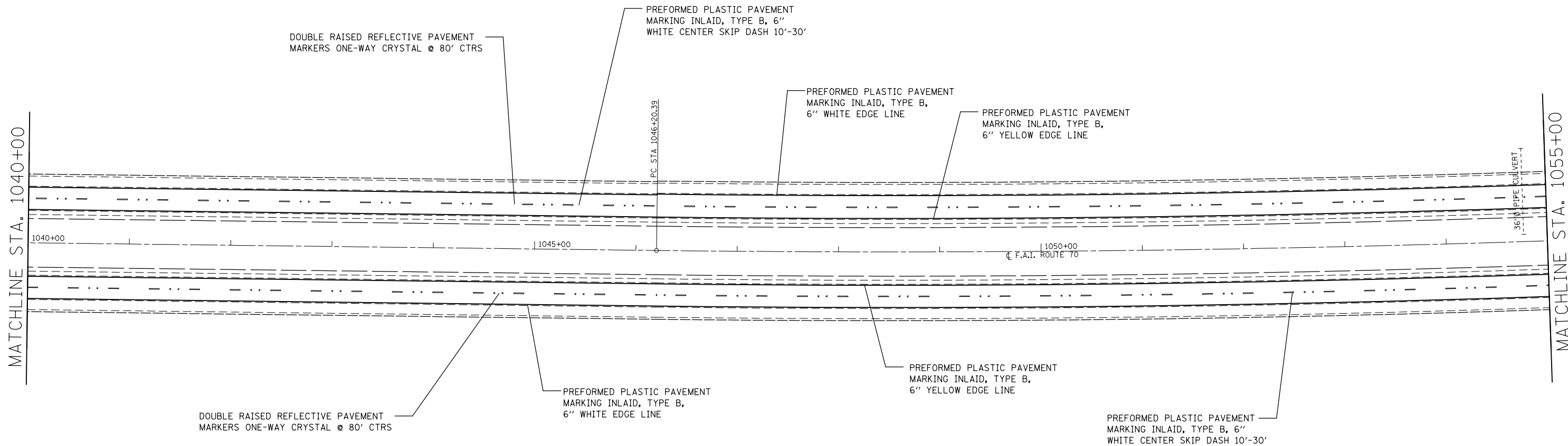


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN			
SCALE: 20	SHEET NO. 1 OF 49 SHEETS	STA. 1028+00	TO STA. 1040+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	125
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F13	



DOUBLE RAISED REFLECTIVE PAVEMENT MARKERS ONE-WAY CRYSTAL @ 80' CTRS

PREFORMED PLASTIC PAVEMENT MARKING INLAID, TYPE B, 6" WHITE CENTER SKIP DASH 10'-30'

PREFORMED PLASTIC PAVEMENT MARKING INLAID, TYPE B, 6" WHITE EDGE LINE

PREFORMED PLASTIC PAVEMENT MARKING INLAID, TYPE B, 6" YELLOW EDGE LINE

DOUBLE RAISED REFLECTIVE PAVEMENT MARKERS ONE-WAY CRYSTAL @ 80' CTRS

PREFORMED PLASTIC PAVEMENT MARKING INLAID, TYPE B, 6" WHITE EDGE LINE

PREFORMED PLASTIC PAVEMENT MARKING INLAID, TYPE B, 6" YELLOW EDGE LINE

PREFORMED PLASTIC PAVEMENT MARKING INLAID, TYPE B, 6" WHITE CENTER SKIP DASH 10'-30'

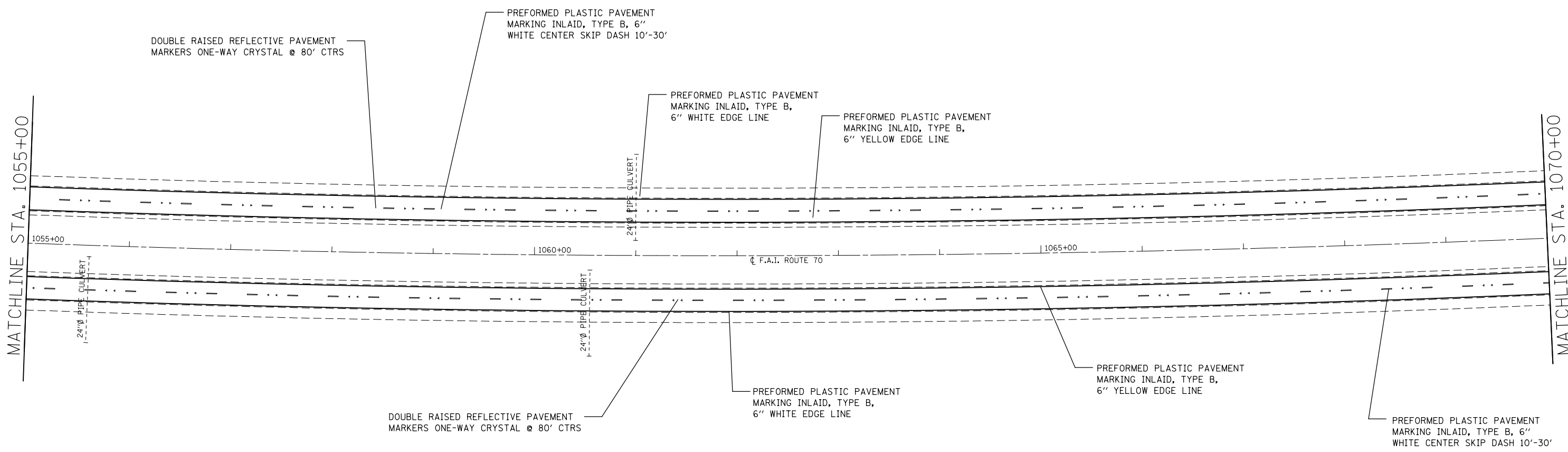
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN

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	PLOT DATE = 6/27/2014	DATE -	REVISED -

SCALE: 20 SHEET NO. 2 OF 49 SHEETS STA. 1040+00 TO STA. 1055+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	126
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F13	



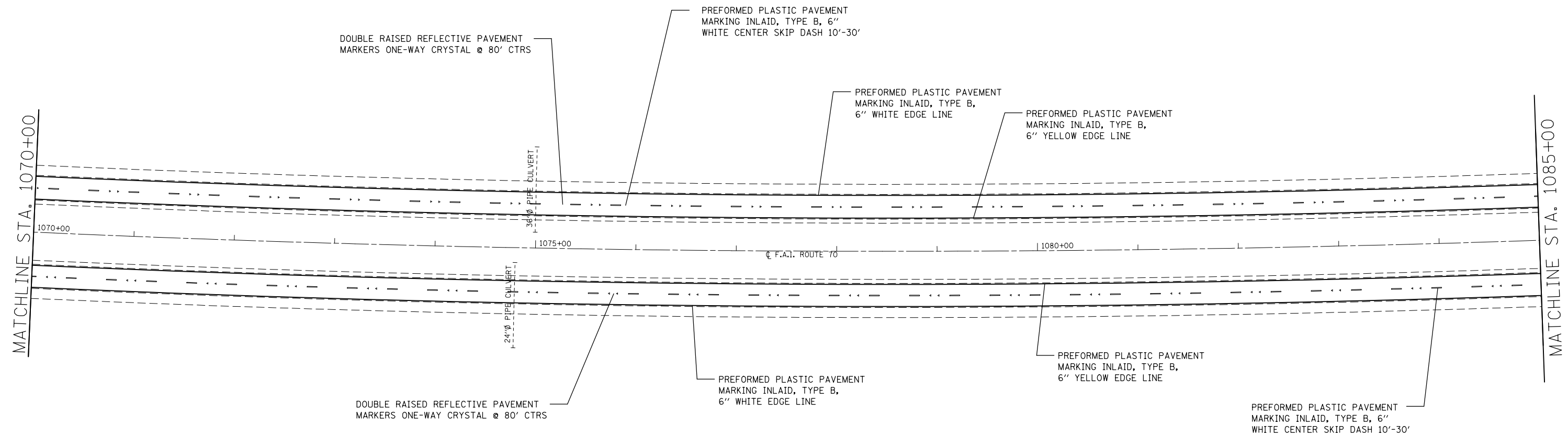
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	PLOT DATE = 6/27/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN

SCALE: 20 SHEET NO. 3 OF 49 SHEETS STA. 1055+00 TO STA. 1070+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	127
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F13	



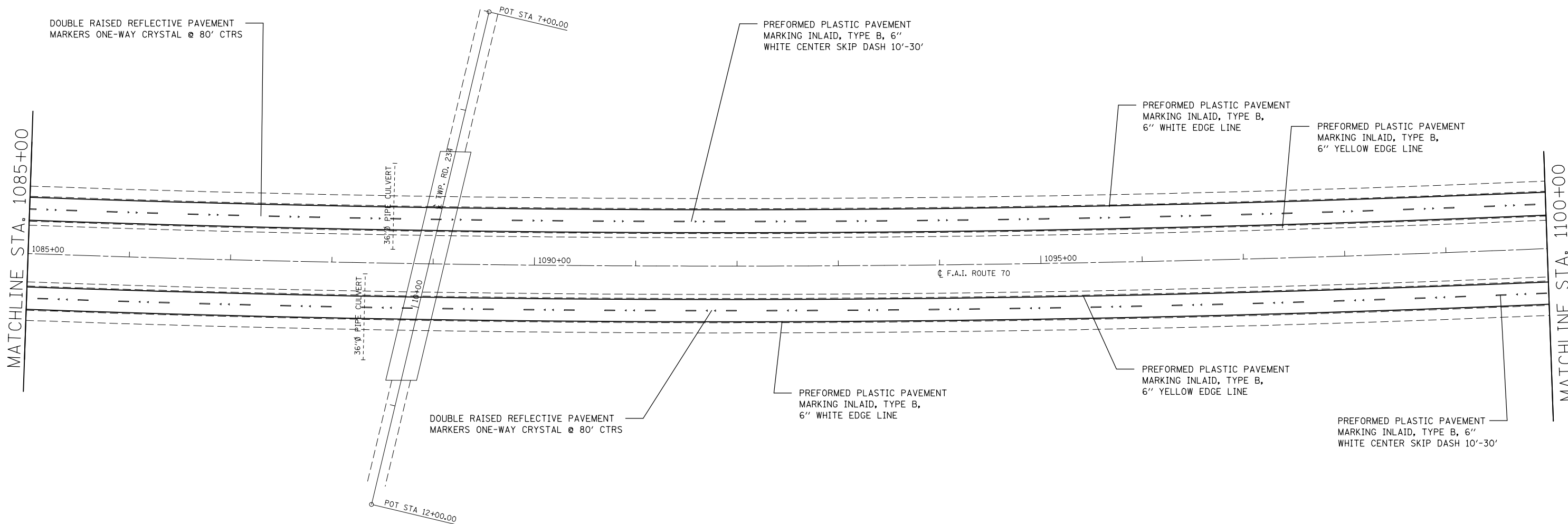
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	PLOT DATE = 6/27/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN

SCALE: 20 SHEET NO. 4 OF 49 SHEETS STA. 1070+00 TO STA. 1085+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	128
CONTRACT NO. 76F13				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

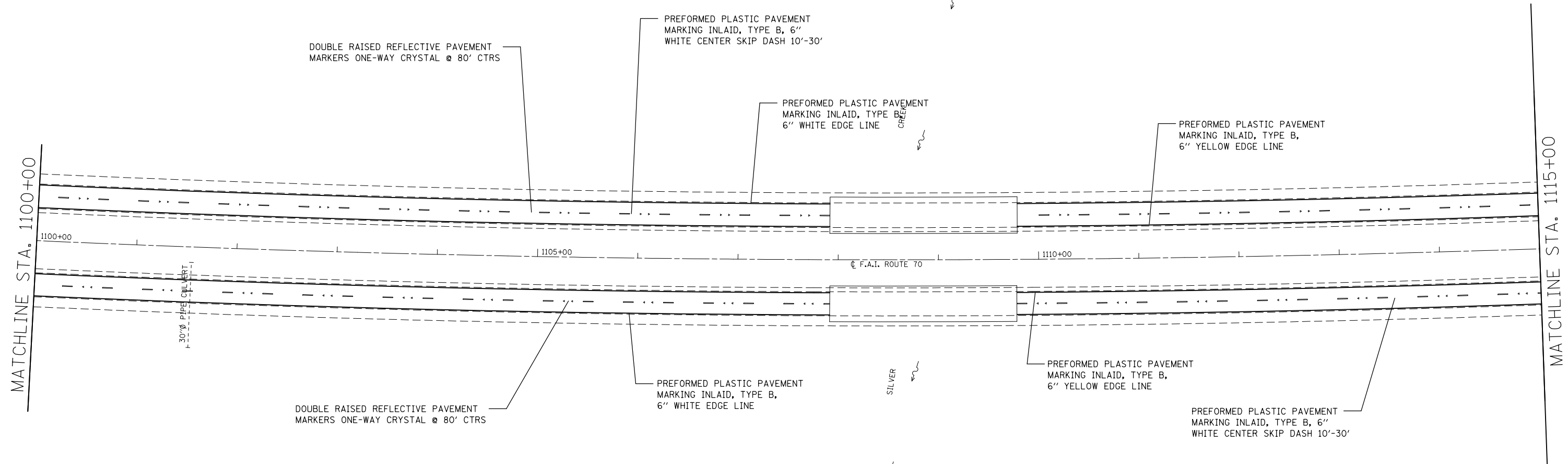


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	PLOT DATE = 6/27/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN			
SCALE: 20	SHEET NO. 5 OF 49 SHEETS	STA. 1085+00 TO STA. 1100+00	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	129
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F13	



DOUBLE RAISED REFLECTIVE PAVEMENT MARKERS ONE-WAY CRYSTAL @ 80' CTRS

PREFORMED PLASTIC PAVEMENT MARKING INLAID, TYPE B, 6" WHITE CENTER SKIP DASH 10'-30'

PREFORMED PLASTIC PAVEMENT MARKING INLAID, TYPE B, 6" WHITE EDGE LINE

PREFORMED PLASTIC PAVEMENT MARKING INLAID, TYPE B, 6" YELLOW EDGE LINE

30" Ø PIPE CULVERT

DOUBLE RAISED REFLECTIVE PAVEMENT MARKERS ONE-WAY CRYSTAL @ 80' CTRS

PREFORMED PLASTIC PAVEMENT MARKING INLAID, TYPE B, 6" WHITE EDGE LINE

PREFORMED PLASTIC PAVEMENT MARKING INLAID, TYPE B, 6" YELLOW EDGE LINE

PREFORMED PLASTIC PAVEMENT MARKING INLAID, TYPE B, 6" WHITE CENTER SKIP DASH 10'-30'

CL F.A.I. ROUTE 70

SILVER

MATCHLINE STA. 1100+00

MATCHLINE STA. 1115+00

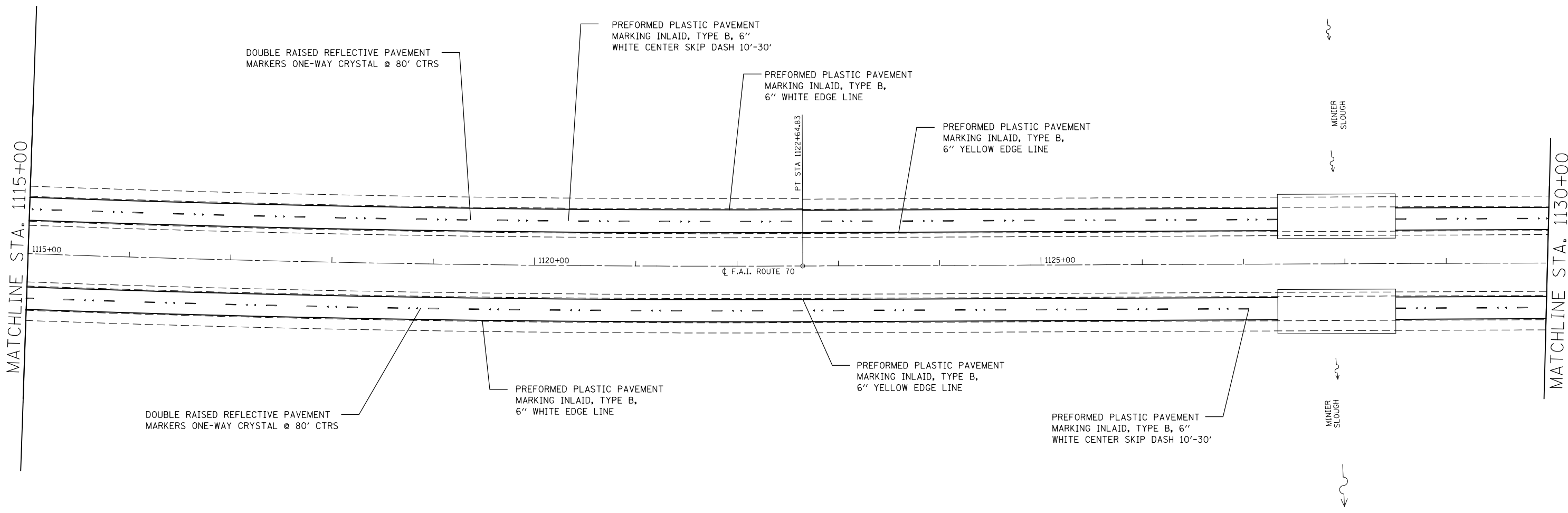
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN

SCALE: 20 SHEET NO. 6 OF 49 SHEETS STA. 1100+00 TO STA. 1115+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	130
CONTRACT NO. 76F13				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



DOUBLE RAISED REFLECTIVE PAVEMENT MARKERS ONE-WAY CRYSTAL @ 80' CTRS

PREFORMED PLASTIC PAVEMENT MARKING INLAID, TYPE B, 6" WHITE CENTER SKIP DASH 10'-30'

PREFORMED PLASTIC PAVEMENT MARKING INLAID, TYPE B, 6" WHITE EDGE LINE

PREFORMED PLASTIC PAVEMENT MARKING INLAID, TYPE B, 6" YELLOW EDGE LINE

MINIER SLOUGH

MATCHLINE STA. 1115+00

MATCHLINE STA. 1130+00

1115+00

1120+00

F.A.I. ROUTE 70

1125+00

PT. STA. 1122+64.83

DOUBLE RAISED REFLECTIVE PAVEMENT MARKERS ONE-WAY CRYSTAL @ 80' CTRS

PREFORMED PLASTIC PAVEMENT MARKING INLAID, TYPE B, 6" WHITE EDGE LINE

PREFORMED PLASTIC PAVEMENT MARKING INLAID, TYPE B, 6" YELLOW EDGE LINE

PREFORMED PLASTIC PAVEMENT MARKING INLAID, TYPE B, 6" WHITE CENTER SKIP DASH 10'-30'

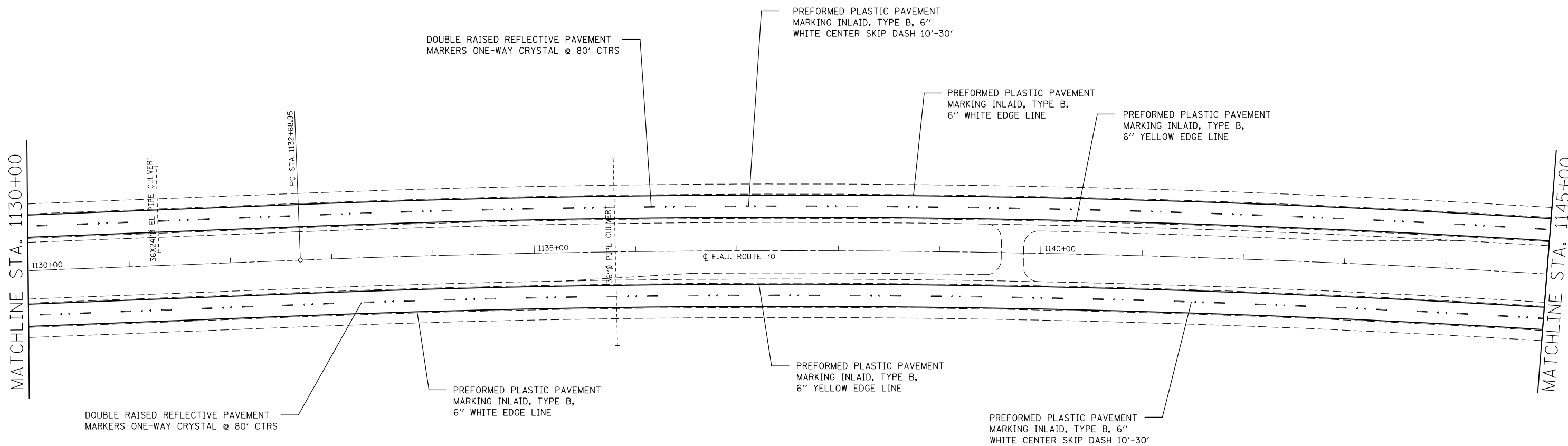
MINIER SLOUGH

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN
SCALE: 20 SHEET NO. 7 OF 49 SHEETS STA. 1150+00 TO STA. 1130+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	131
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F13	



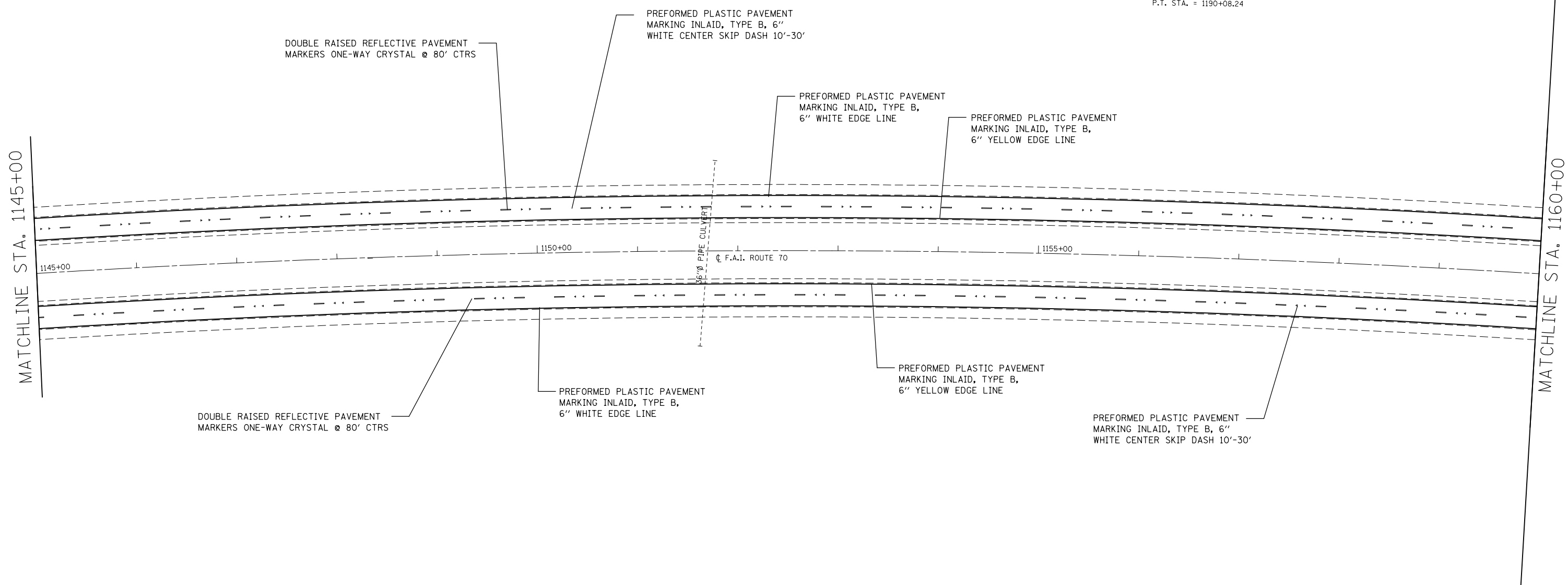
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN			
SCALE: 20	SHEET NO. 8 OF 49 SHEETS	STA. 1130+00 TO STA. 1145+00	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	132
CONTRACT NO. 76F13				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

EXIST. CURVE I70C4
 PI STA. = 1161+92.02
 Δ = 26° 47' 00" (RT)
 D = 0° 28' 00"
 R = 12,277.69'
 T = 2,923.07'
 L = 5,739.29'
 E = 343.17'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 1132+68.95
 P.T. STA. = 1190+08.24



DOUBLE RAISED REFLECTIVE PAVEMENT
 MARKERS ONE-WAY CRYSTAL @ 80' CTRS

PREFORMED PLASTIC PAVEMENT
 MARKING INLAID, TYPE B, 6"
 WHITE CENTER SKIP DASH 10'-30'

PREFORMED PLASTIC PAVEMENT
 MARKING INLAID, TYPE B,
 6" WHITE EDGE LINE

PREFORMED PLASTIC PAVEMENT
 MARKING INLAID, TYPE B,
 6" YELLOW EDGE LINE

MATCHLINE STA. 1145+00

MATCHLINE STA. 1160+00

DOUBLE RAISED REFLECTIVE PAVEMENT
 MARKERS ONE-WAY CRYSTAL @ 80' CTRS

PREFORMED PLASTIC PAVEMENT
 MARKING INLAID, TYPE B,
 6" WHITE EDGE LINE

PREFORMED PLASTIC PAVEMENT
 MARKING INLAID, TYPE B,
 6" YELLOW EDGE LINE

PREFORMED PLASTIC PAVEMENT
 MARKING INLAID, TYPE B, 6"
 WHITE CENTER SKIP DASH 10'-30'

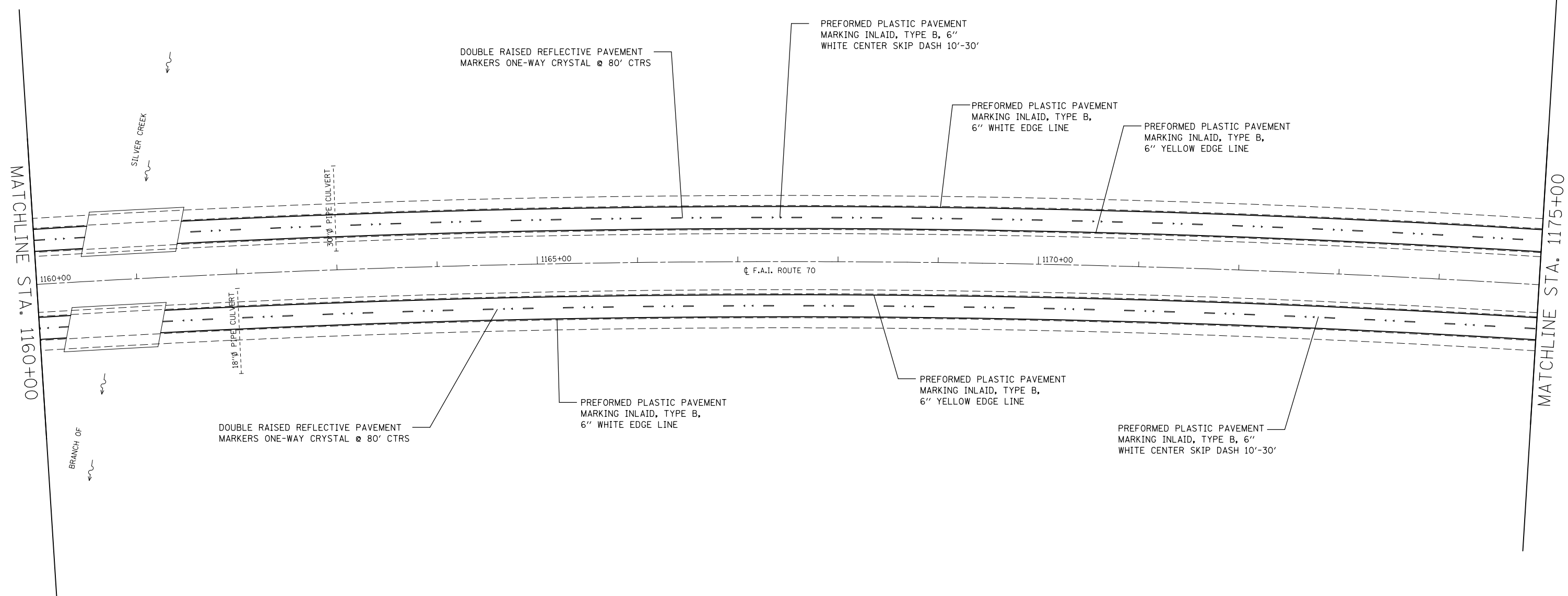
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN

SCALE: 20 SHEET NO. 9 OF 49 SHEETS STA. 1145+00 TO STA. 1160+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	133
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F13	



DOUBLE RAISED REFLECTIVE PAVEMENT MARKERS ONE-WAY CRYSTAL @ 80' CTRS

PREFORMED PLASTIC PAVEMENT MARKING INLAID, TYPE B, 6" WHITE CENTER SKIP DASH 10'-30'

PREFORMED PLASTIC PAVEMENT MARKING INLAID, TYPE B, 6" WHITE EDGE LINE

PREFORMED PLASTIC PAVEMENT MARKING INLAID, TYPE B, 6" YELLOW EDGE LINE

DOUBLE RAISED REFLECTIVE PAVEMENT MARKERS ONE-WAY CRYSTAL @ 80' CTRS

PREFORMED PLASTIC PAVEMENT MARKING INLAID, TYPE B, 6" WHITE EDGE LINE

PREFORMED PLASTIC PAVEMENT MARKING INLAID, TYPE B, 6" YELLOW EDGE LINE

PREFORMED PLASTIC PAVEMENT MARKING INLAID, TYPE B, 6" WHITE CENTER SKIP DASH 10'-30'

MATCHLINE STA. 1160+00

MATCHLINE STA. 1175+00

☐ F.A.I. ROUTE 70

SILVER CREEK

BRANCH OF

36" PIPE CULVERT

18" PIPE CULVERT

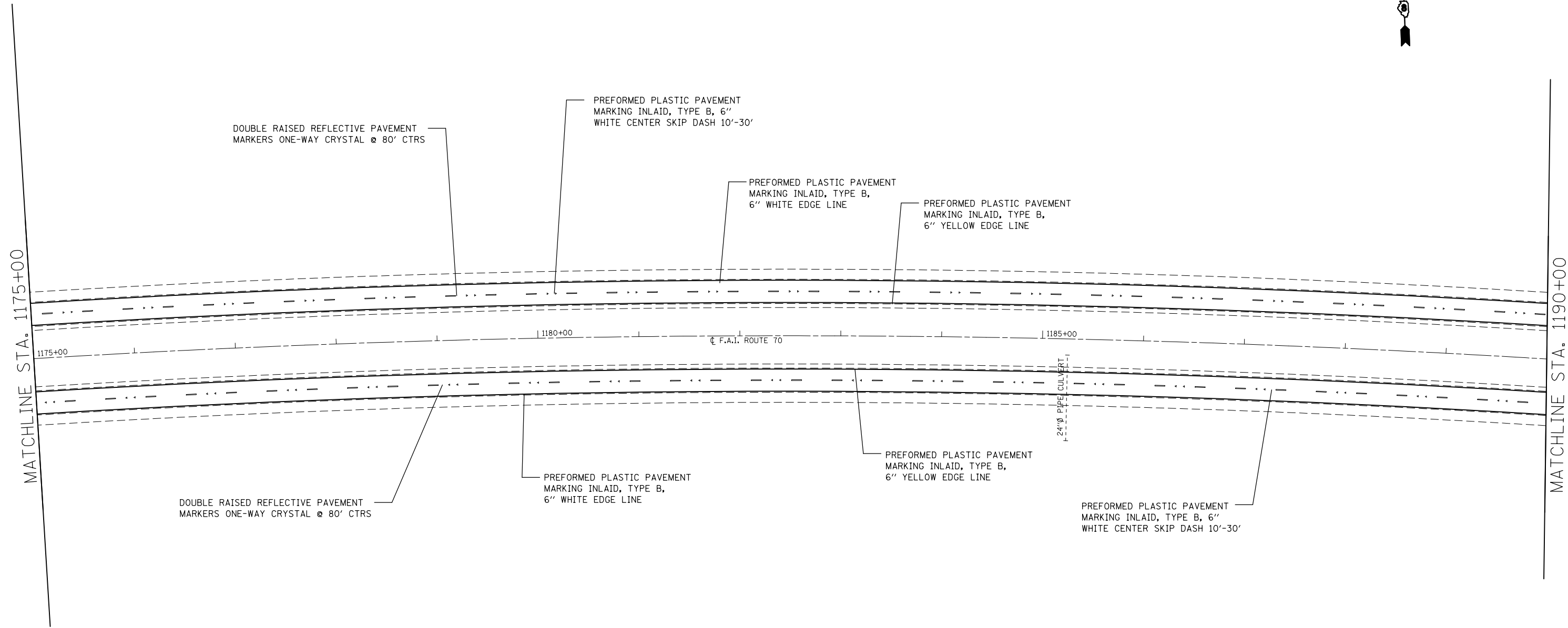
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN

SCALE: 20 SHEET NO. 10 OF 49 SHEETS STA. 1160+00 TO STA. 1175+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	134
CONTRACT NO. 76F13				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



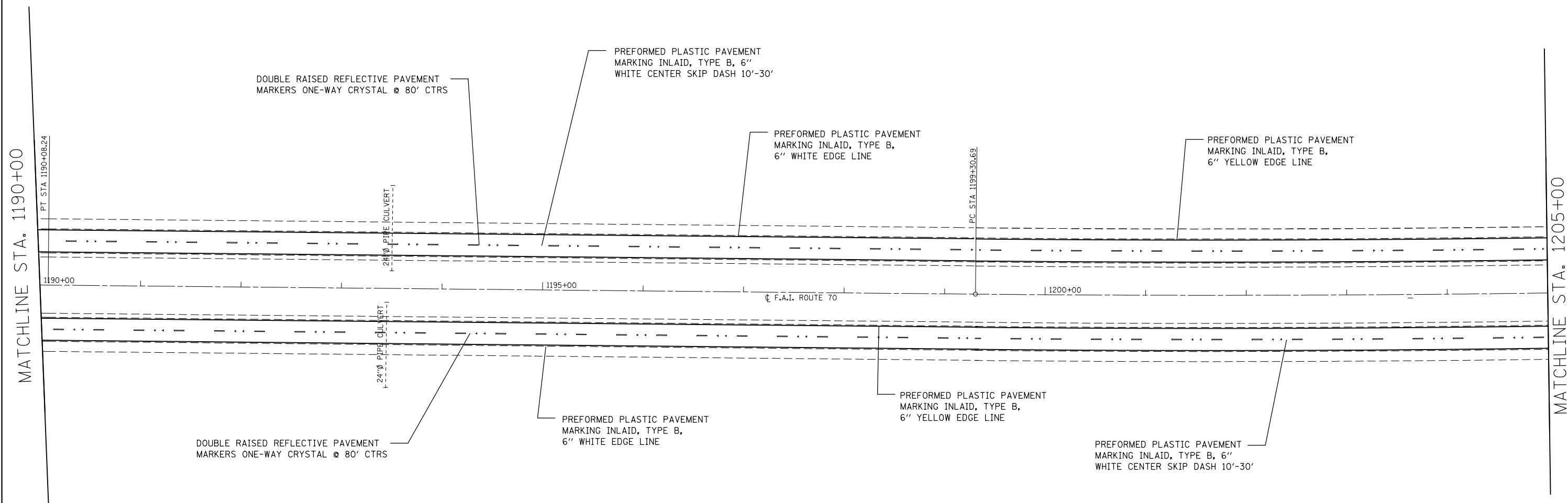
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN

SCALE: 20 SHEET NO. 11 OF 49 SHEETS STA. 1175+00 TO STA. 1190+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	135
CONTRACT NO. 76F13				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



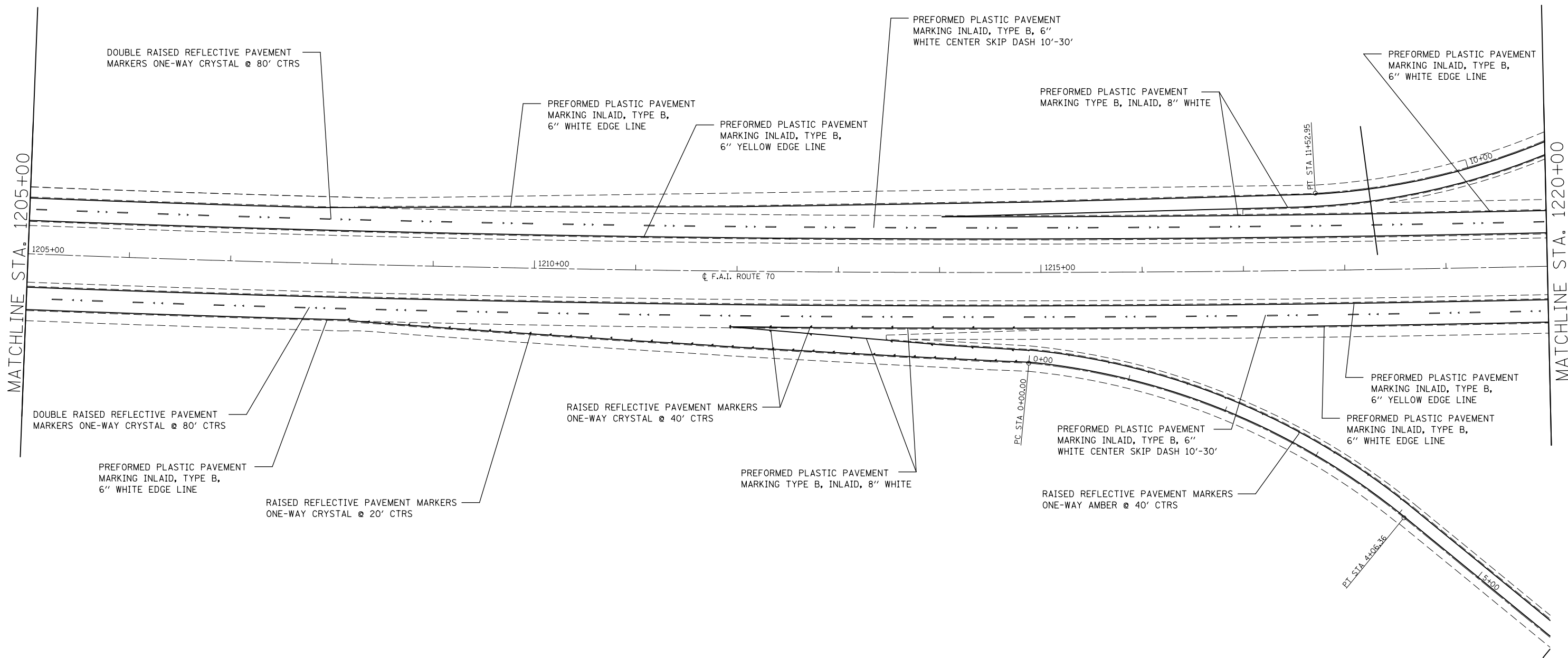
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	PLOT DATE = 6/27/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN

SCALE: 20 SHEET NO. 12 OF 49 SHEETS STA. 1190+00 TO STA. 1205+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	136
CONTRACT NO. 76F13				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



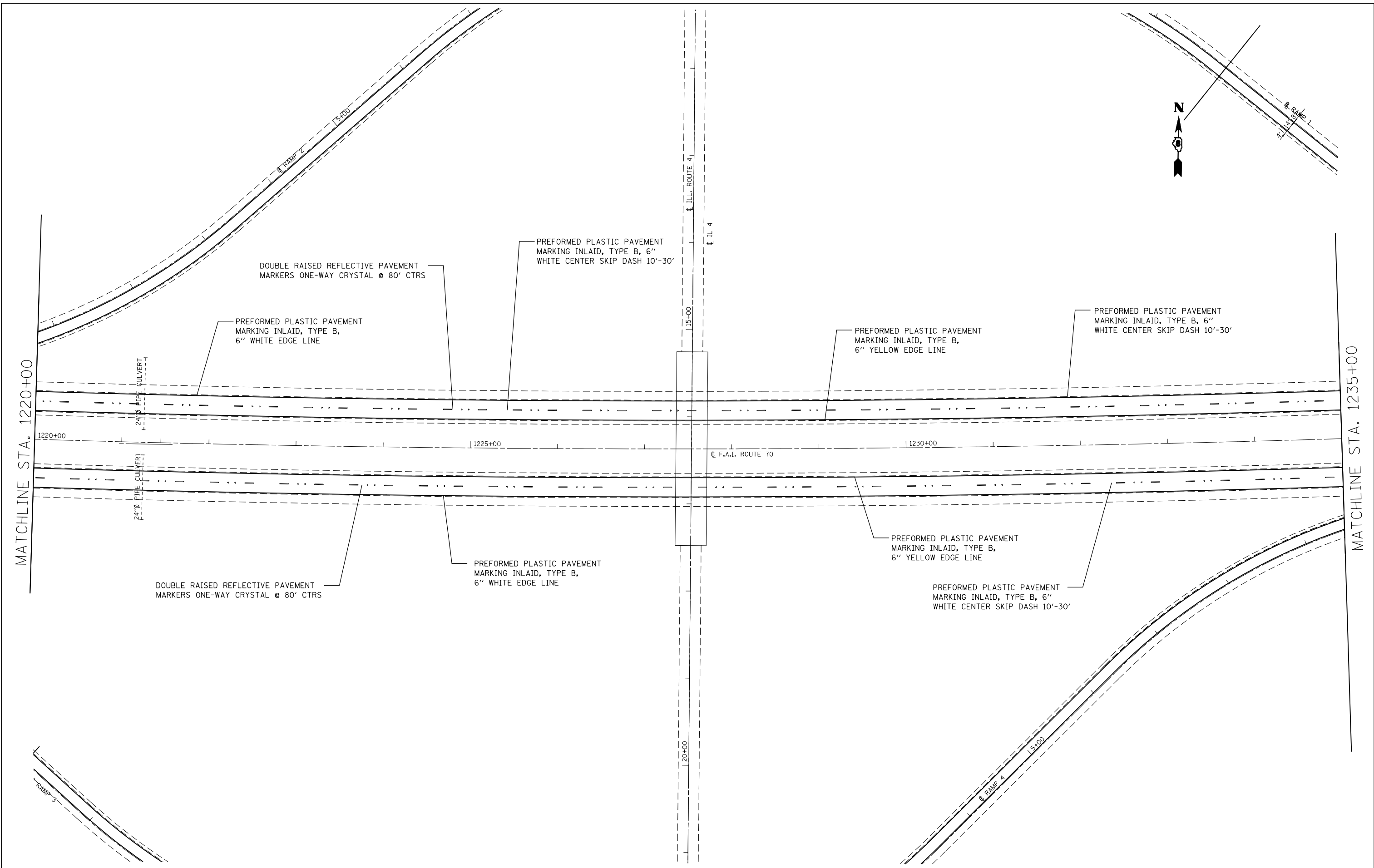
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN

SCALE: 20 SHEET NO. 13 OF 49 SHEETS STA. 1205+00 TO STA. 1220+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	137
CONTRACT NO. 76F13				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

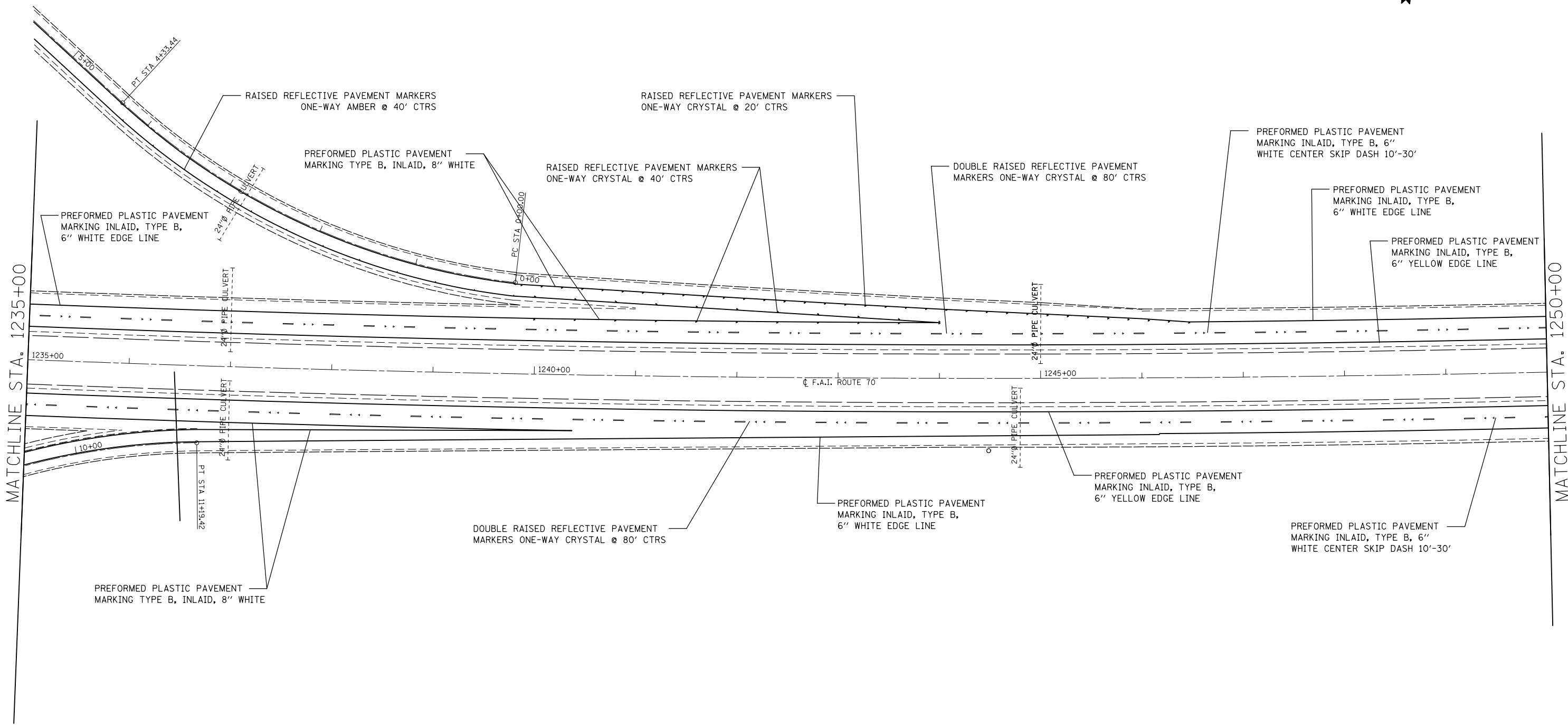


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	PLOT DATE = 6/27/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN			
SCALE: 20	SHEET NO. 14 OF 49 SHEETS	STA. 1220+00	TO STA. 1235+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	138
CONTRACT NO. 76F13				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

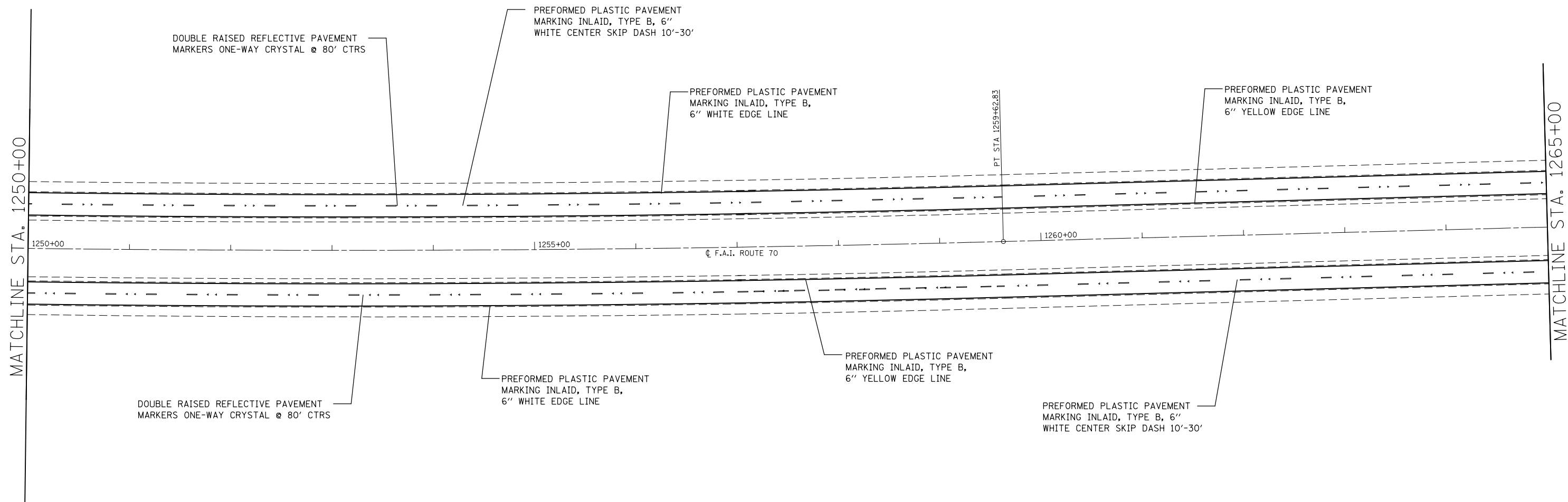


**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN

SCALE: 20 SHEET NO. 15 OF 49 SHEETS STA. 1235+00 TO STA. 1250+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	139
CONTRACT NO. 76F13				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

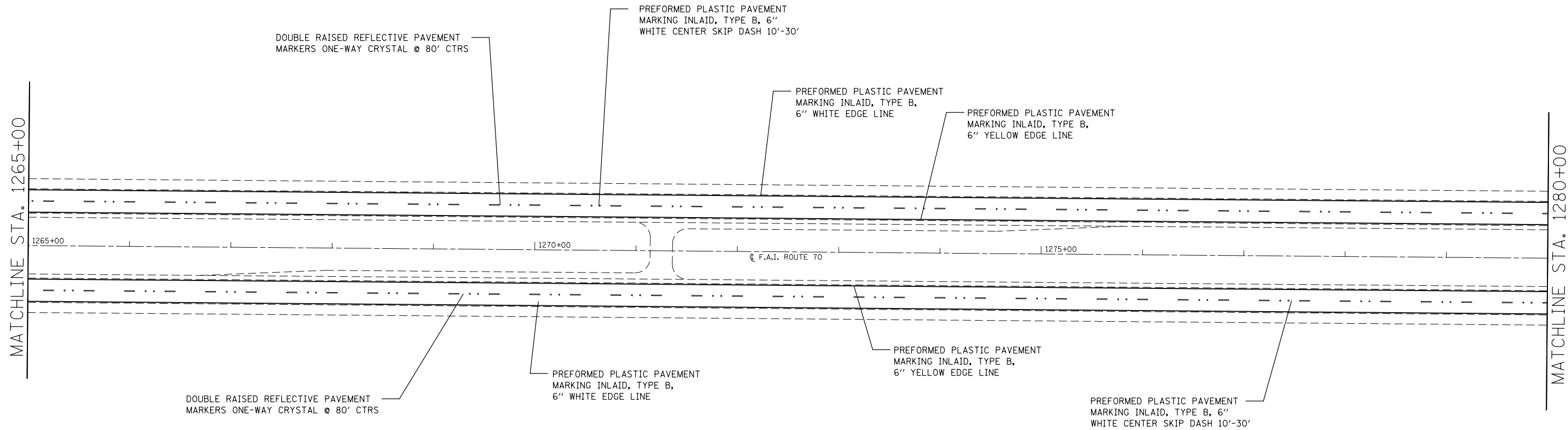


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	PLOT DATE = 6/27/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN			
SCALE: 20	SHEET NO. 16 OF 49 SHEETS	STA. 1250+00	TO STA. 1265+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	140
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F13	



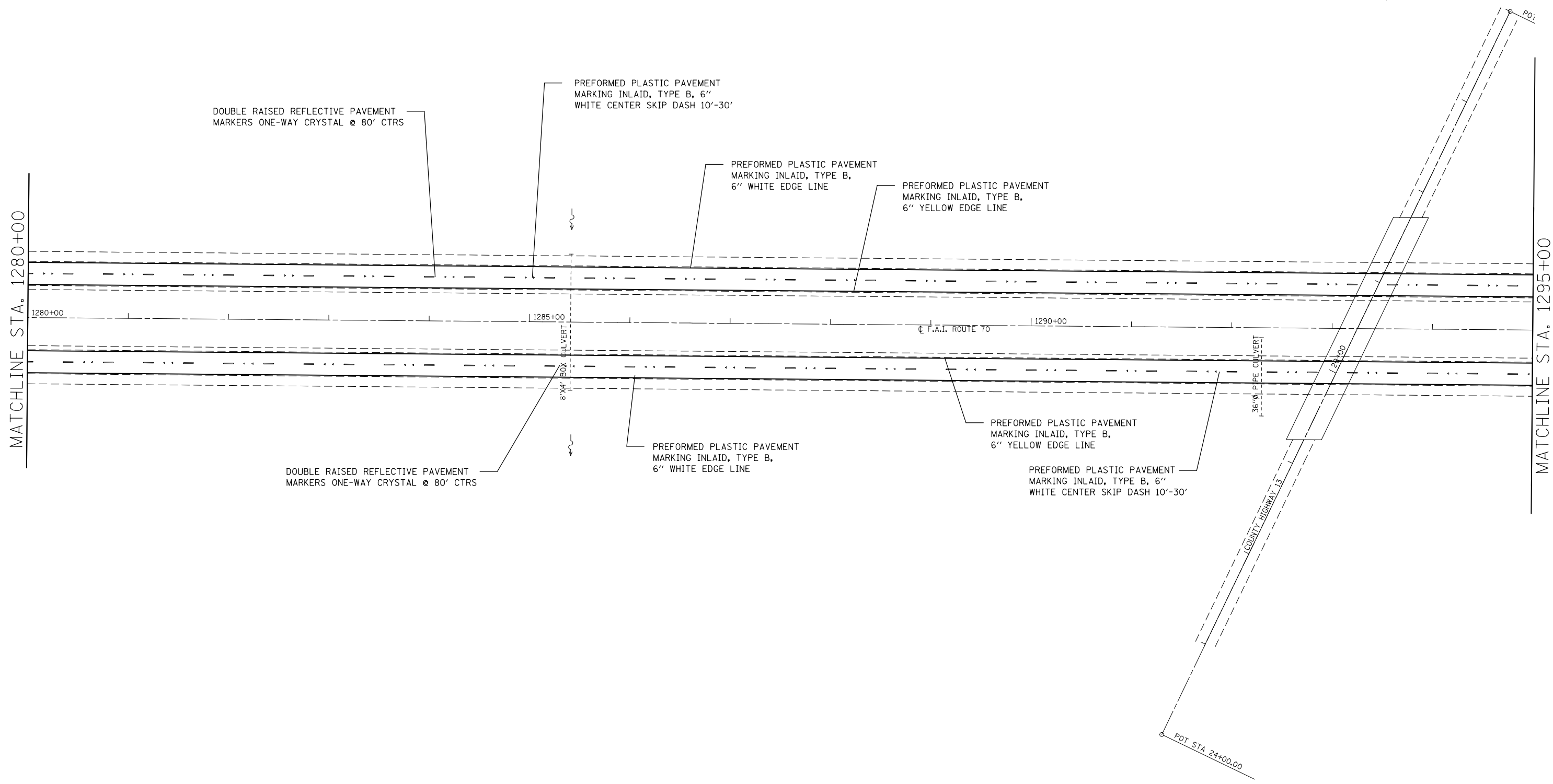
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN

SCALE: 20 SHEET NO. 17 OF 49 SHEETS STA. 1265+00 TO STA. 1280+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	141
CONTRACT NO. 76F13				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



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	PLOT DATE = 6/27/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN			
SCALE: 20	SHEET NO. 18 OF 49 SHEETS	STA. 1280+00	TO STA. 1295+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	142
CONTRACT NO. 76F13				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



STA 16+00.00

MATCHLINE STA. 1295+00

MATCHLINE STA. 1310+00

DOUBLE RAISED REFLECTIVE PAVEMENT MARKERS ONE-WAY CRYSTAL @ 80' CTRS

PREFORMED PLASTIC PAVEMENT MARKING INLAID, TYPE B, 6" WHITE CENTER SKIP DASH 10'-30'

PREFORMED PLASTIC PAVEMENT MARKING INLAID, TYPE B, 6" WHITE EDGE LINE

PREFORMED PLASTIC PAVEMENT MARKING INLAID, TYPE B, 6" YELLOW EDGE LINE

16" PIPE CULVERT

16" PIPE CULVERT

1295+00

1300+00

☐ F.A.I. ROUTE 70

1305+00

DOUBLE RAISED REFLECTIVE PAVEMENT MARKERS ONE-WAY CRYSTAL @ 80' CTRS

PREFORMED PLASTIC PAVEMENT MARKING INLAID, TYPE B, 6" WHITE EDGE LINE

PREFORMED PLASTIC PAVEMENT MARKING INLAID, TYPE B, 6" YELLOW EDGE LINE

PREFORMED PLASTIC PAVEMENT MARKING INLAID, TYPE B, 6" WHITE CENTER SKIP DASH 10'-30'

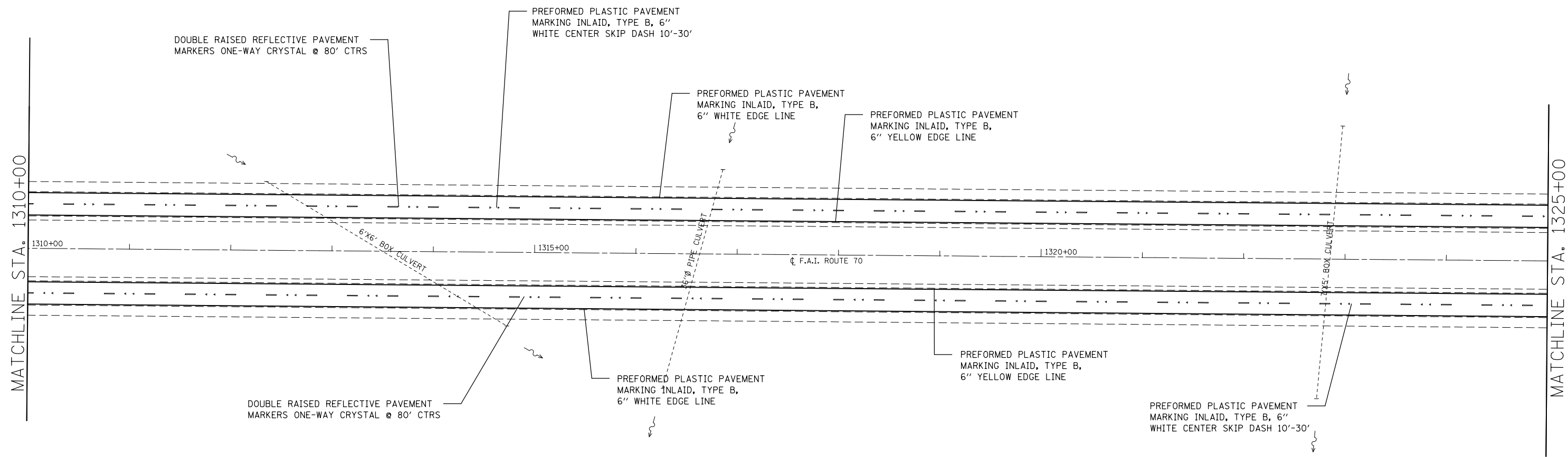
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	PLOT DATE = 6/27/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN

SCALE: 20 SHEET NO. 19 OF 49 SHEETS STA. 1295+00 TO STA. 1310+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	143
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F13	

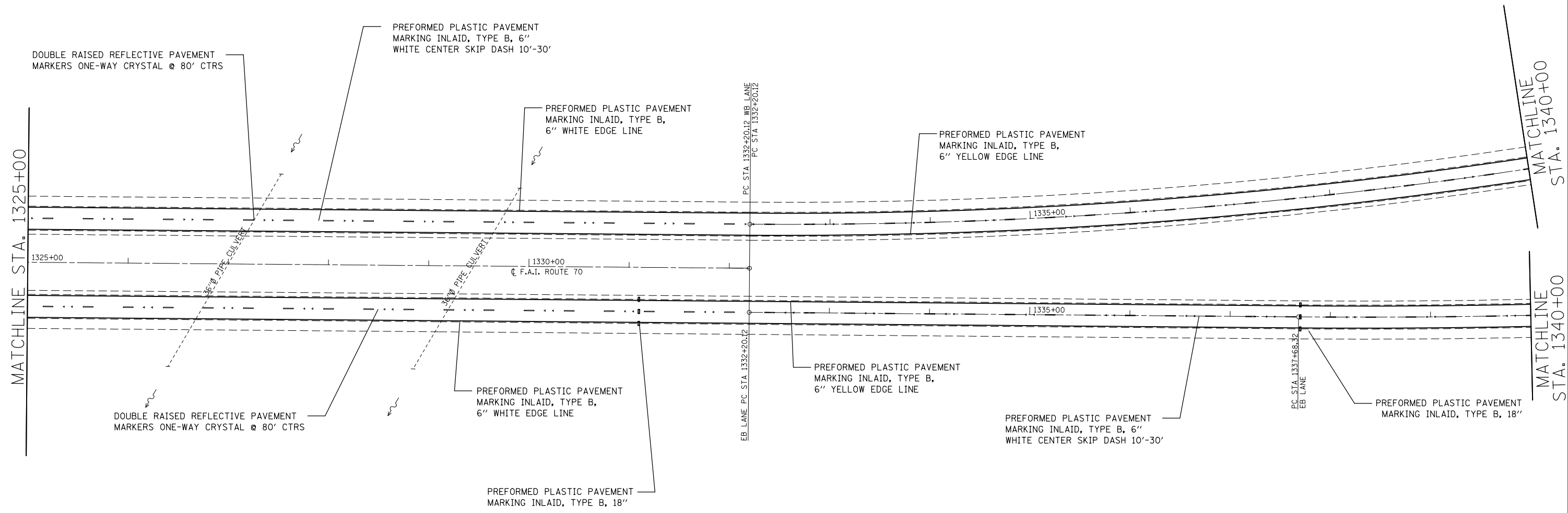


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	PLOT DATE = 6/27/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN			
SCALE: 20	SHEET NO. 20 OF 49 SHEETS	STA. 1310+00	TO STA. 1325+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	144
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 76F13	



EXIST. CURVE 170WBLC1
 PI STA. = 1339+97.96
 Δ = 18° 00' 00" (LT)
 D = 1° 10' 00"
 R = 4,911.07'
 T = 777.84'
 L = 1,542.86'
 E = 61.22'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 1332+20.12
 P.T. STA. = 1347+62.98

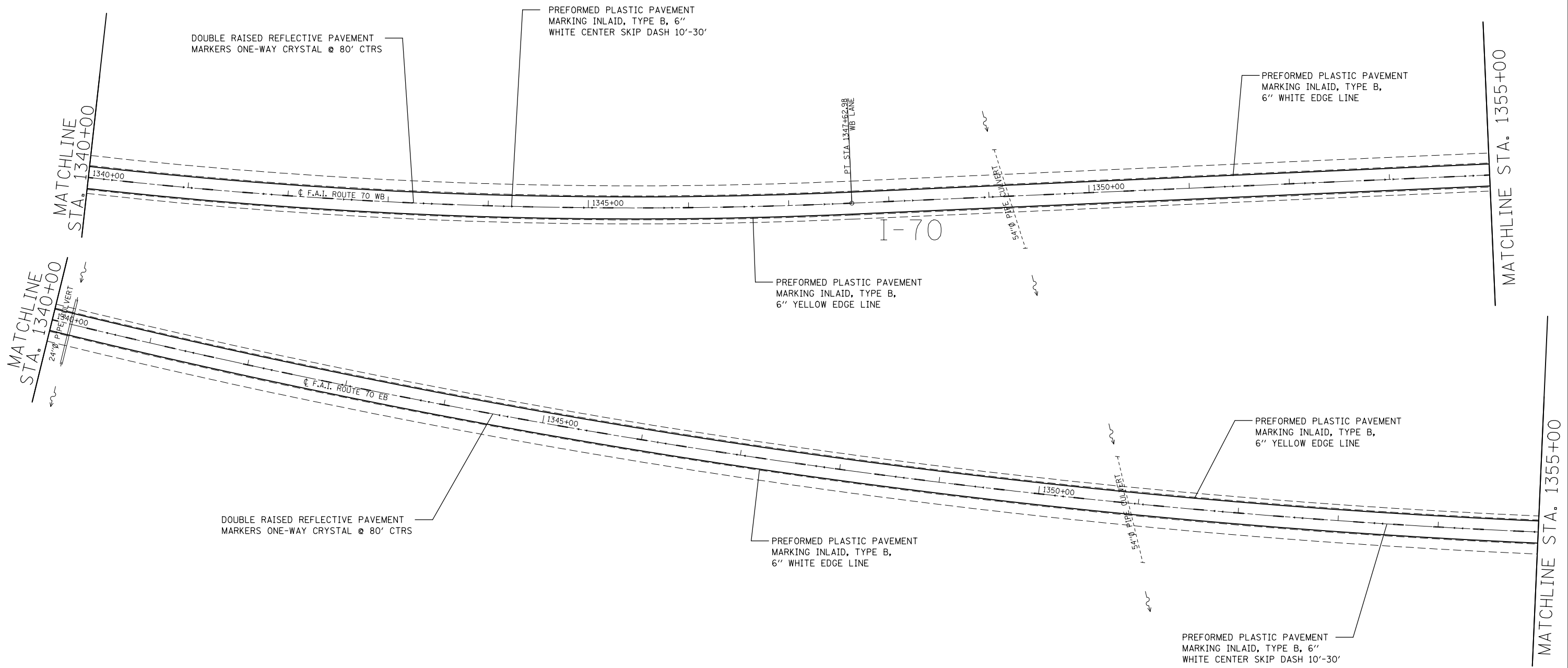
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PLOT DATE = 6/27/2014		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN

SCALE: 20 SHEET NO. 21 OF 49 SHEETS STA. 1325+00 TO STA. 1340+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	145
CONTRACT NO. 76F13				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



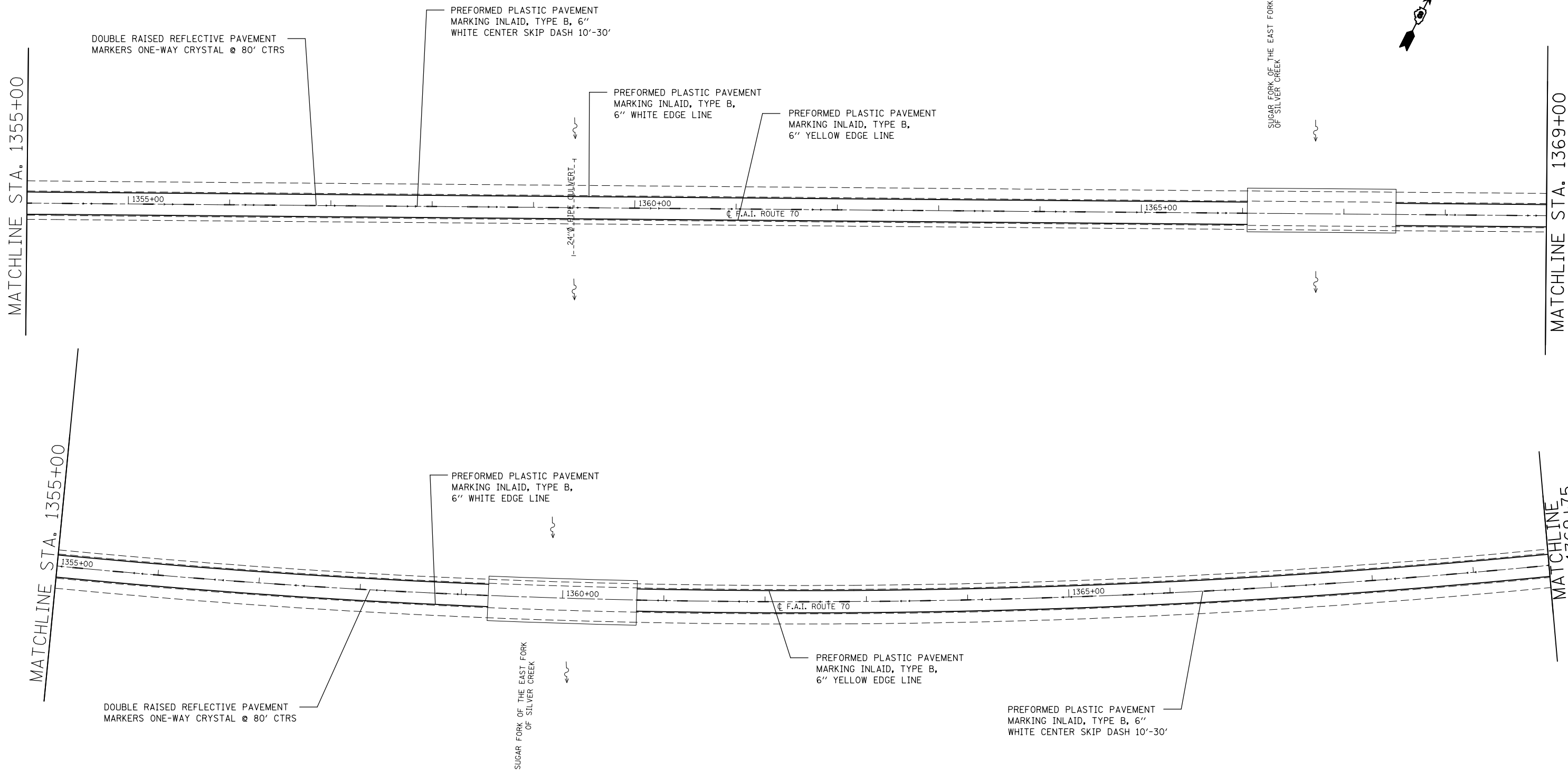
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	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/27/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN

SCALE: 20 SHEET NO. 22 OF 49 SHEETS STA. 1340+00 TO STA. 1355+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	146
CONTRACT NO. 76F13				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



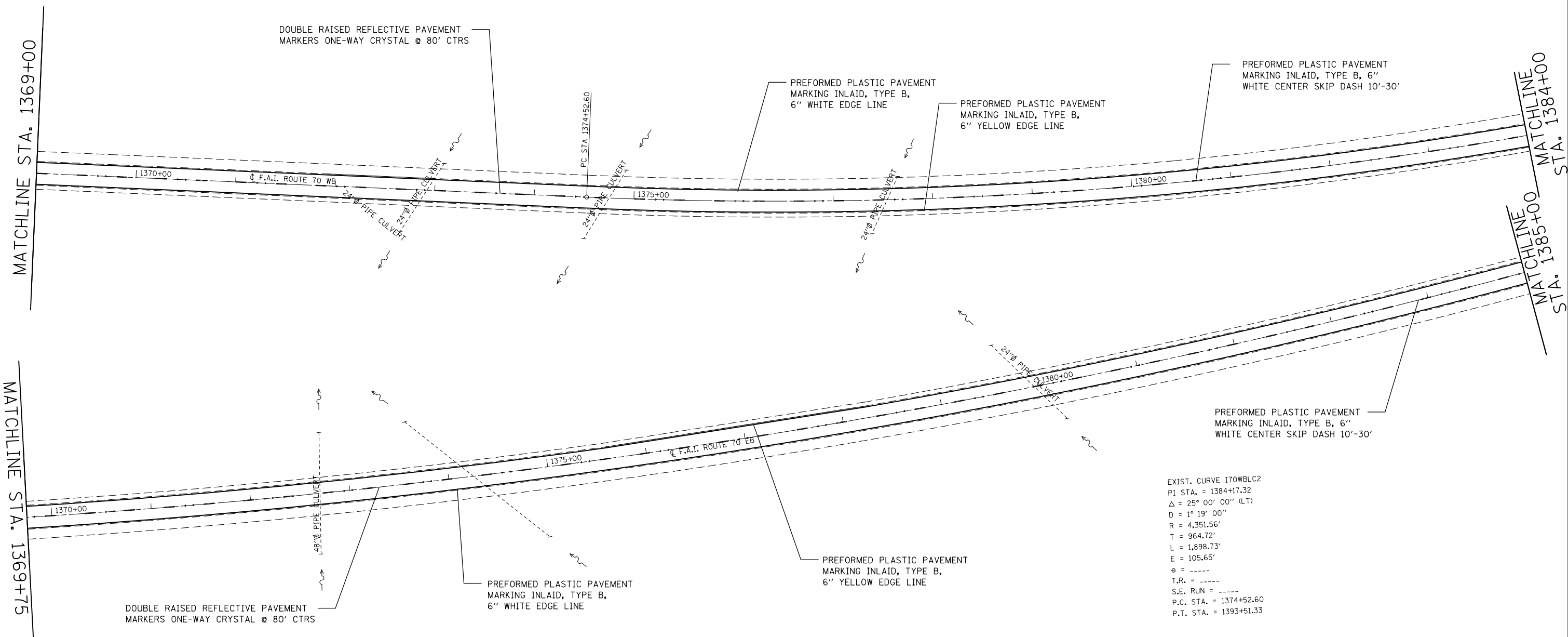
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	PLOT DATE = 6/27/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN

SCALE: 20 SHEET NO. 23 OF 49 SHEETS STA. 1355+00 TO STA. 1369+75

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	147
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 76F13	



EXIST. CURVE I70WBLC2
 PI STA. = 1384+17.32
 Δ = 25° 00' 00" (LT)
 D = 1° 19' 00"
 R = 4,351.56'
 T = 964.72'
 L = 1,898.73'
 E = 105.65'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 1374+52.60
 P.T. STA. = 1393+51.33

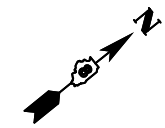
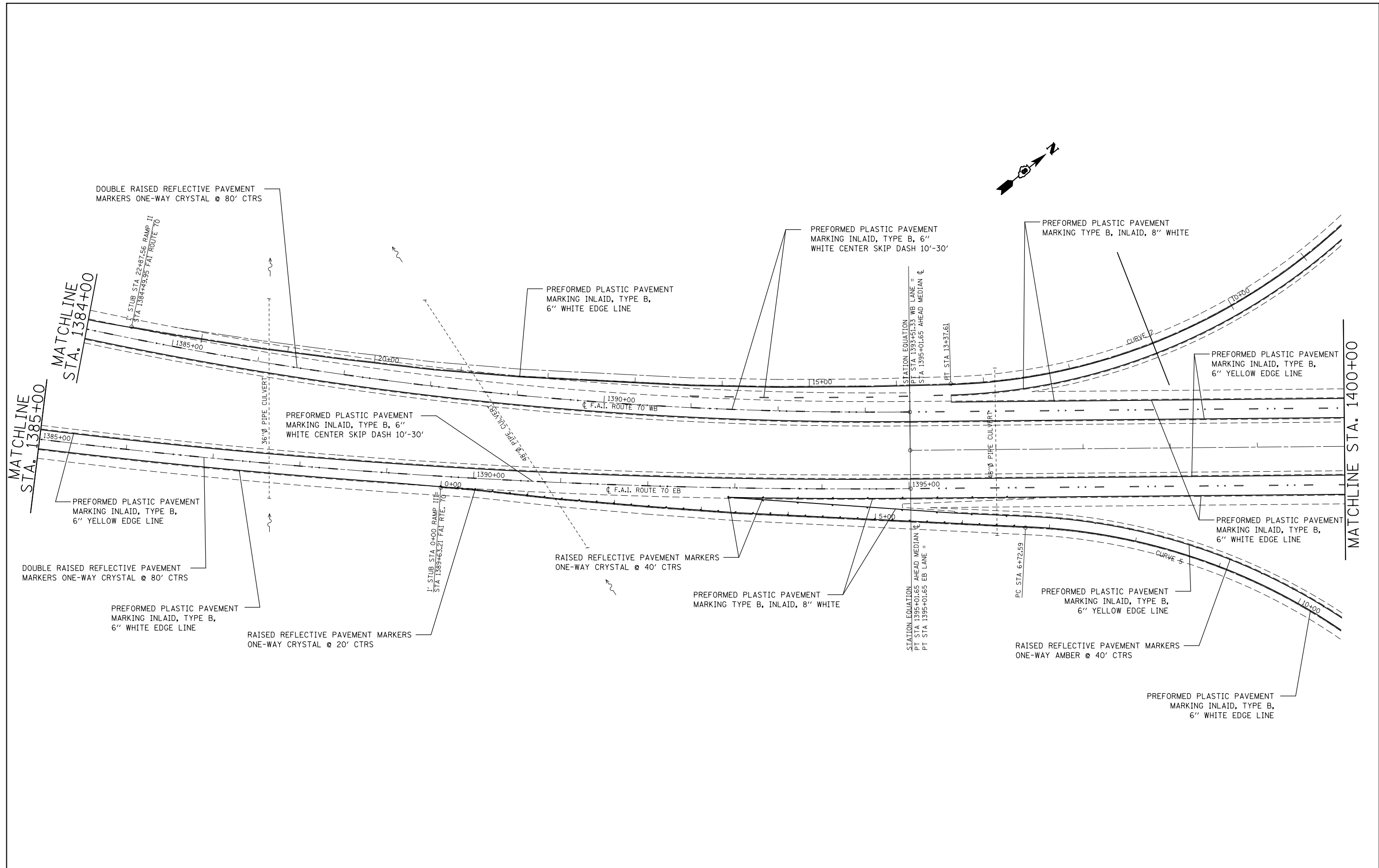
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	PLOT DATE = 6/27/2014	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN

SCALE: 20 SHEET NO. 24 OF 49 SHEETS STA. 1369+75 TO STA. 1384+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	148
CONTRACT NO. 76F13				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

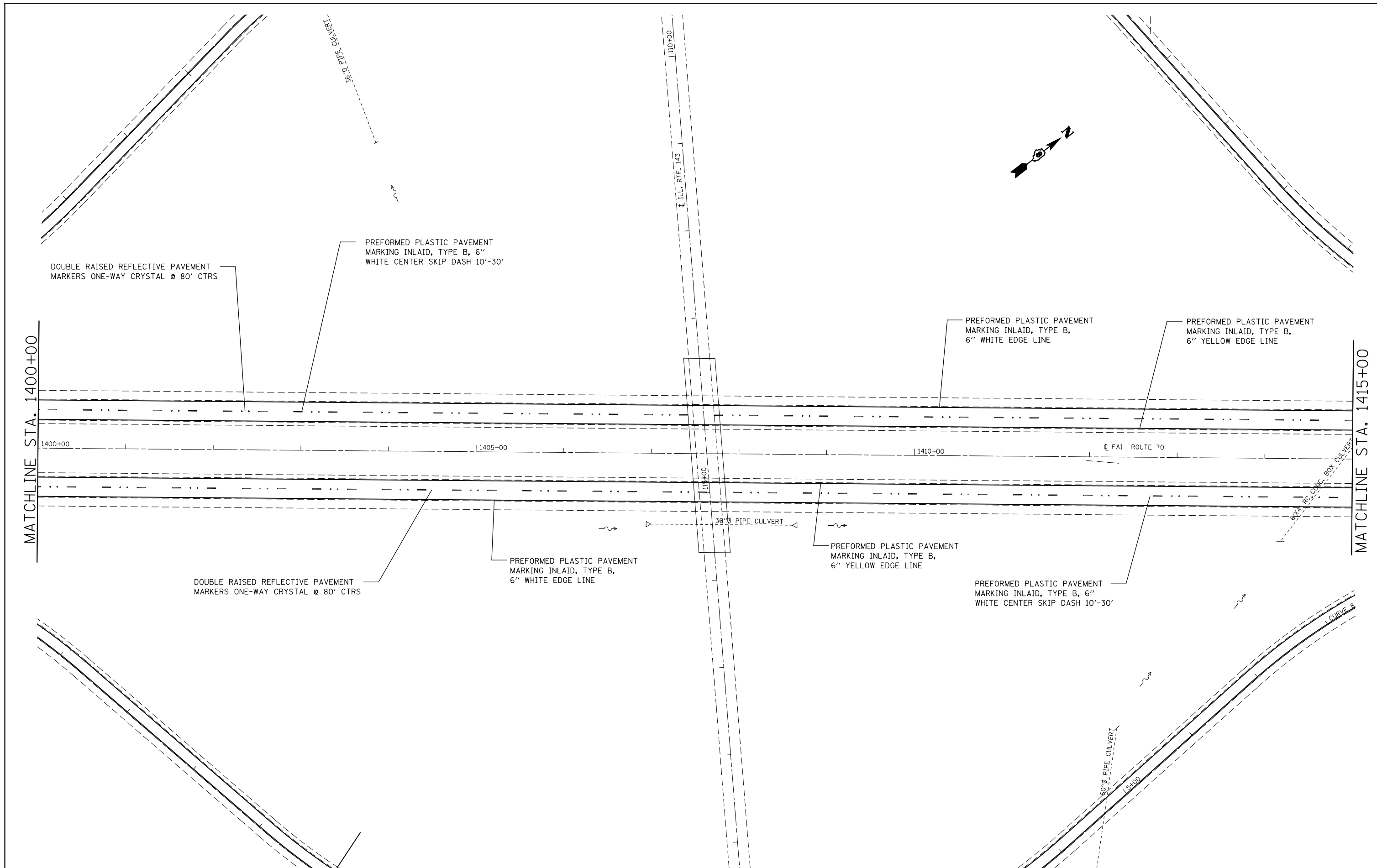


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	PLOT DATE = 6/27/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN			
SCALE: 20	SHEET NO. 25 OF 49 SHEETS	STA. 1385+00	TO STA. 1400+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	149
CONTRACT NO. 76F13				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

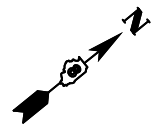
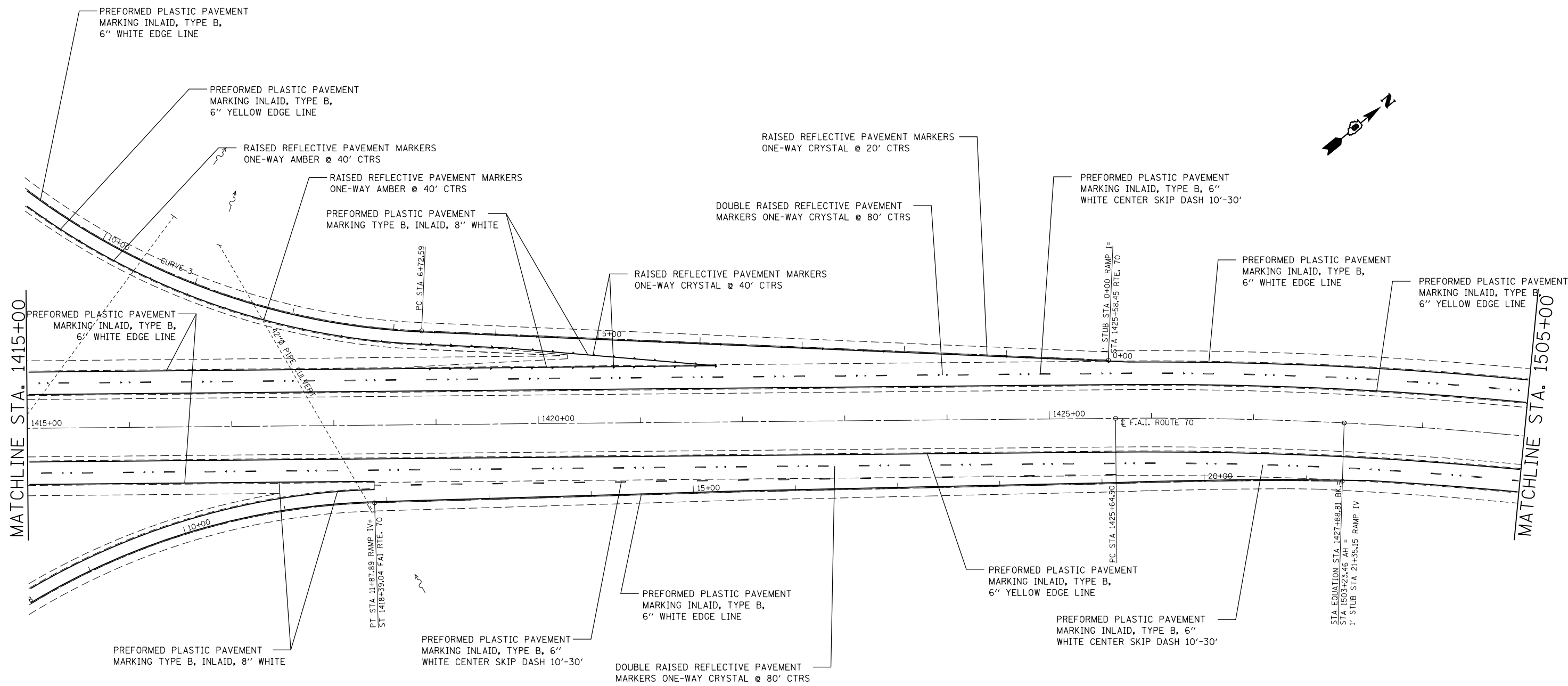


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	PLOT DATE = 6/27/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN			
SCALE: 20	SHEET NO. 26 OF 49 SHEETS	STA. 1400+00	TO STA. 1415+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	150
CONTRACT NO. 76F13				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

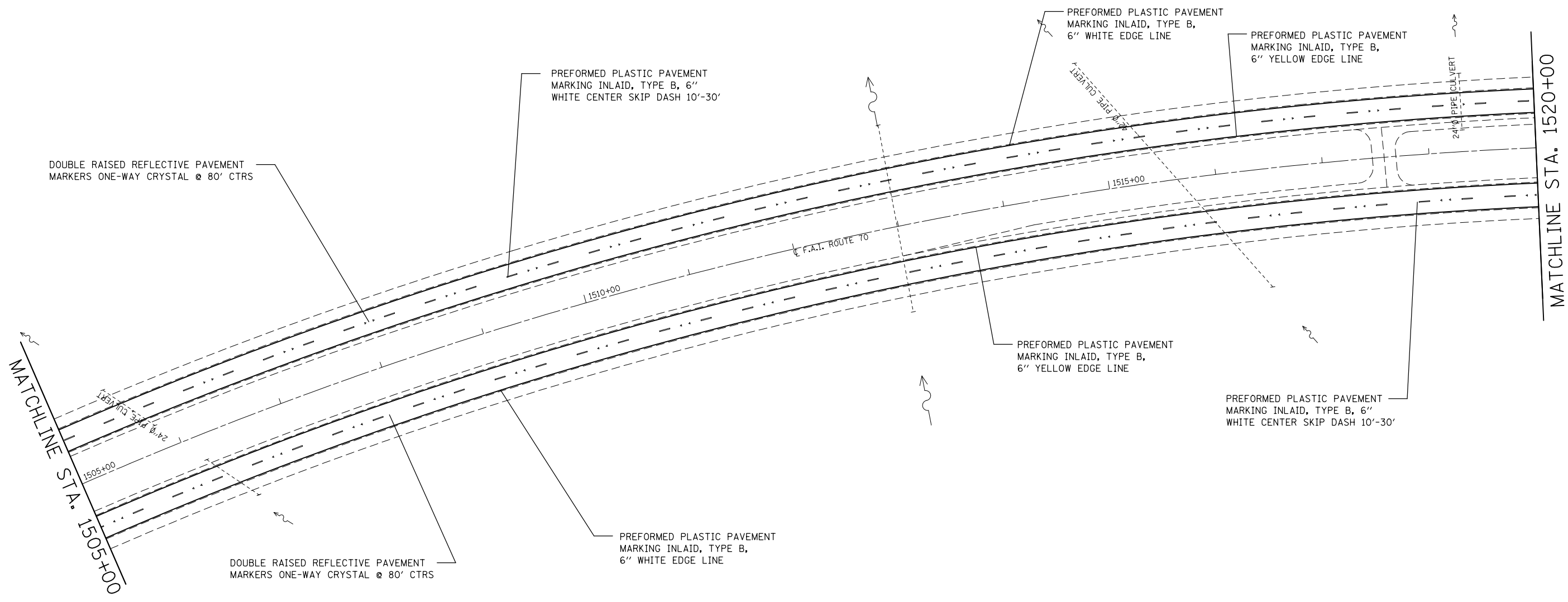


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	PLOT DATE = 6/27/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN			
SCALE: 20	SHEET NO. 27 OF 49 SHEETS	STA. 1415+00	TO STA. 1505+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	151
CONTRACT NO. 76F13				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

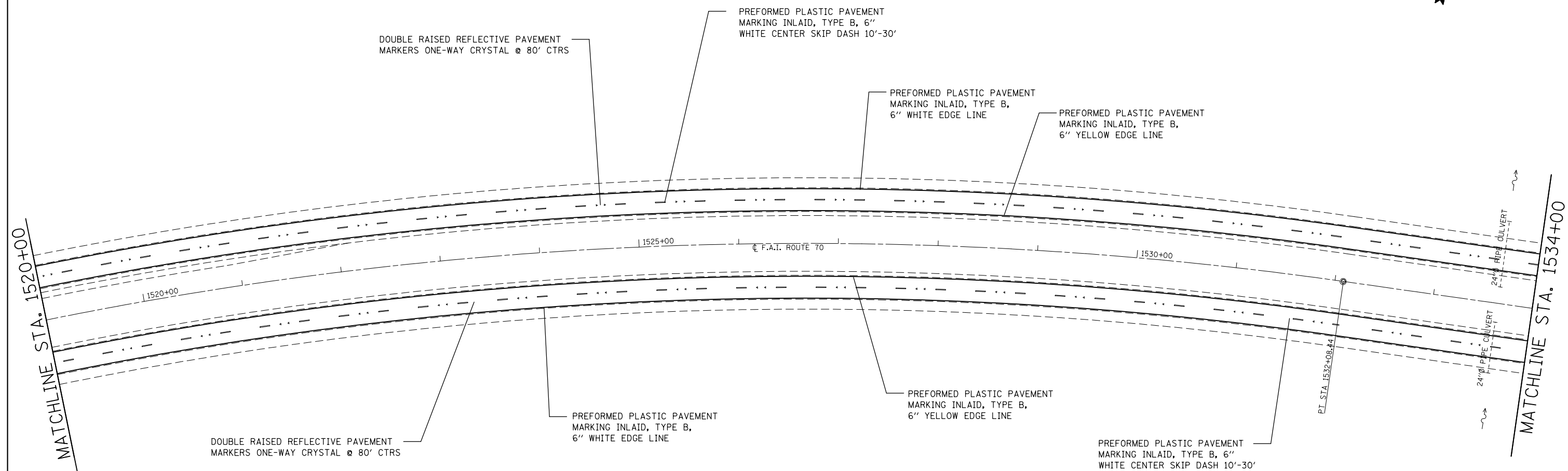


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	PLOT DATE = 6/27/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN			
SCALE: 20	SHEET NO. 28 OF 49 SHEETS	STA. 1505+00	TO STA. 1520+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	152
CONTRACT NO. 76F13				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



DOUBLE RAISED REFLECTIVE PAVEMENT
MARKERS ONE-WAY CRYSTAL @ 80' CTRS

PREFORMED PLASTIC PAVEMENT
MARKING INLAID, TYPE B, 6"
WHITE CENTER SKIP DASH 10'-30'

PREFORMED PLASTIC PAVEMENT
MARKING INLAID, TYPE B,
6" WHITE EDGE LINE

PREFORMED PLASTIC PAVEMENT
MARKING INLAID, TYPE B,
6" YELLOW EDGE LINE

DOUBLE RAISED REFLECTIVE PAVEMENT
MARKERS ONE-WAY CRYSTAL @ 80' CTRS

PREFORMED PLASTIC PAVEMENT
MARKING INLAID, TYPE B,
6" WHITE EDGE LINE

PREFORMED PLASTIC PAVEMENT
MARKING INLAID, TYPE B,
6" YELLOW EDGE LINE

PREFORMED PLASTIC PAVEMENT
MARKING INLAID, TYPE B, 6"
WHITE CENTER SKIP DASH 10'-30'

EXIST. CURVE I70CLC1-2
PI STA. = 1518+38.66
 $\Delta = 43^\circ 16' 17''$ (RT)
D = 1° 30' 00"
R = 3,820.00'
T = 1,515.20'
L = 2,884.98'
E = 289.53'
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 1503+23.46
P.T. STA. = 1532+08.44

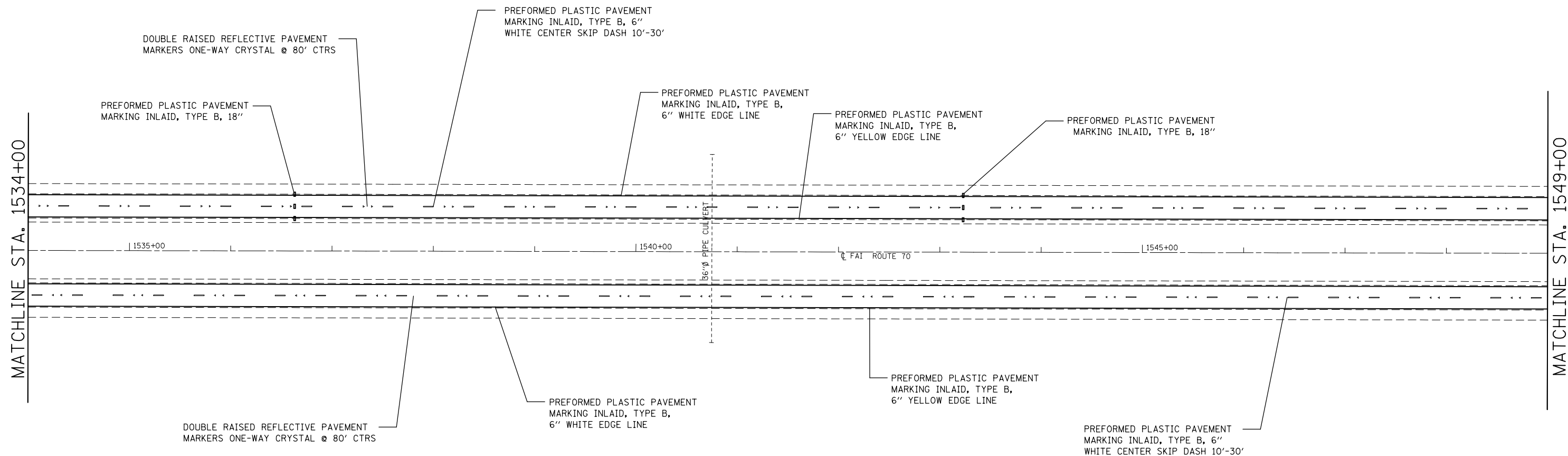
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PLOT DATE = 6/27/2014		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN

SCALE: 20 SHEET NO. 29 OF 49 SHEETS STA. 1520+00 TO STA. 1534+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	153
CONTRACT NO. 76F13				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



MATCHLINE STA. 1534+00

MATCHLINE STA. 1549+00

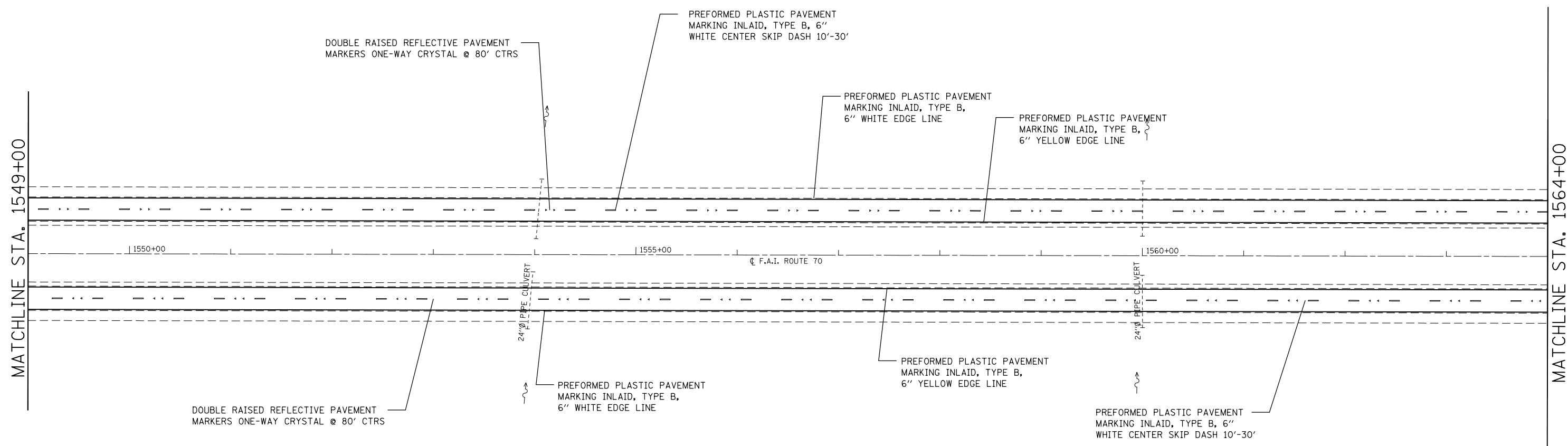
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	PLOT DATE = 6/27/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN

SCALE: 20 SHEET NO. 30 OF 49 SHEETS STA. 1534+00 TO STA. 1549+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	154
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F13	

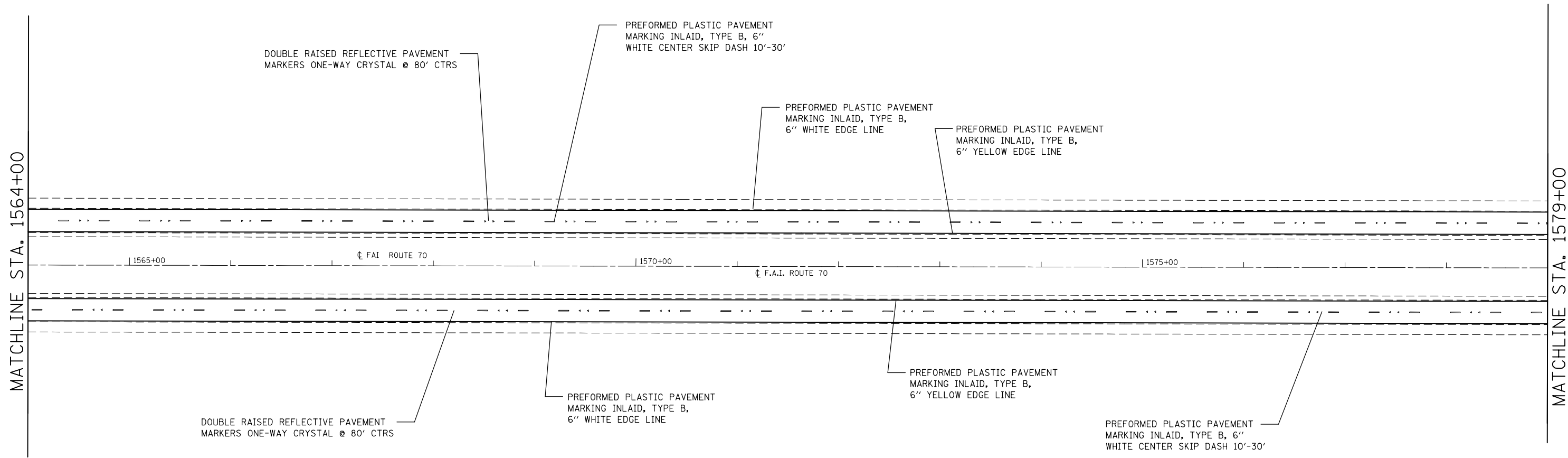


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	PLOT DATE = 6/27/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN			
SCALE: 20	SHEET NO. 31 OF 49 SHEETS	STA. 1549+00 TO STA. 1564+00	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	155
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F13	

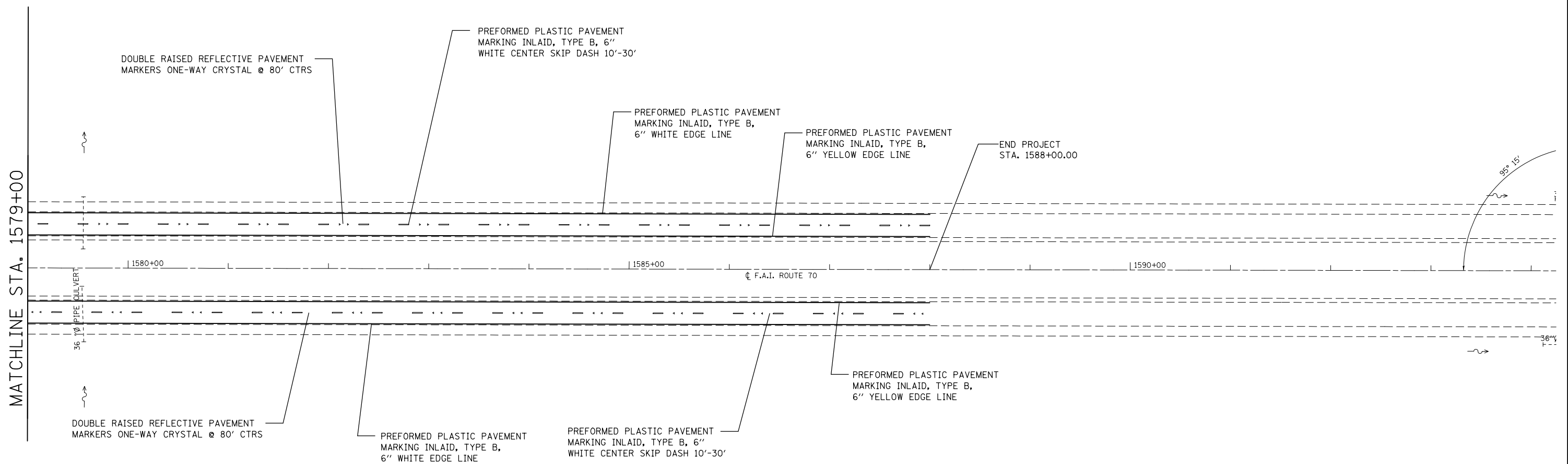


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PLOT DATE = 6/27/2014		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN			
SCALE: 20	SHEET NO. 32 OF 49 SHEETS	STA. 1564+00	TO STA. 1579+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	156
CONTRACT NO. 76F13				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



MATCHLINE STA. 1579+00

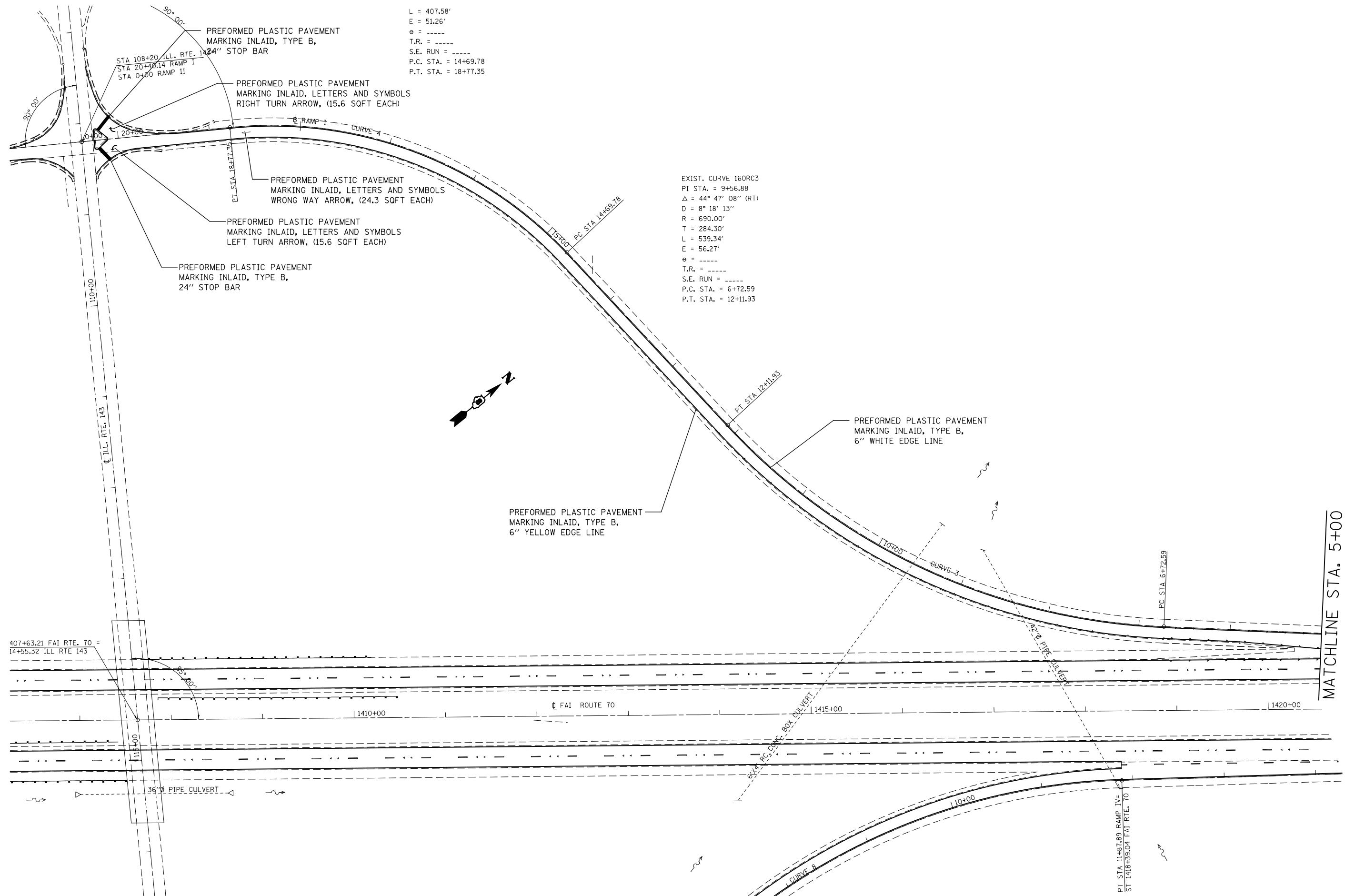
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

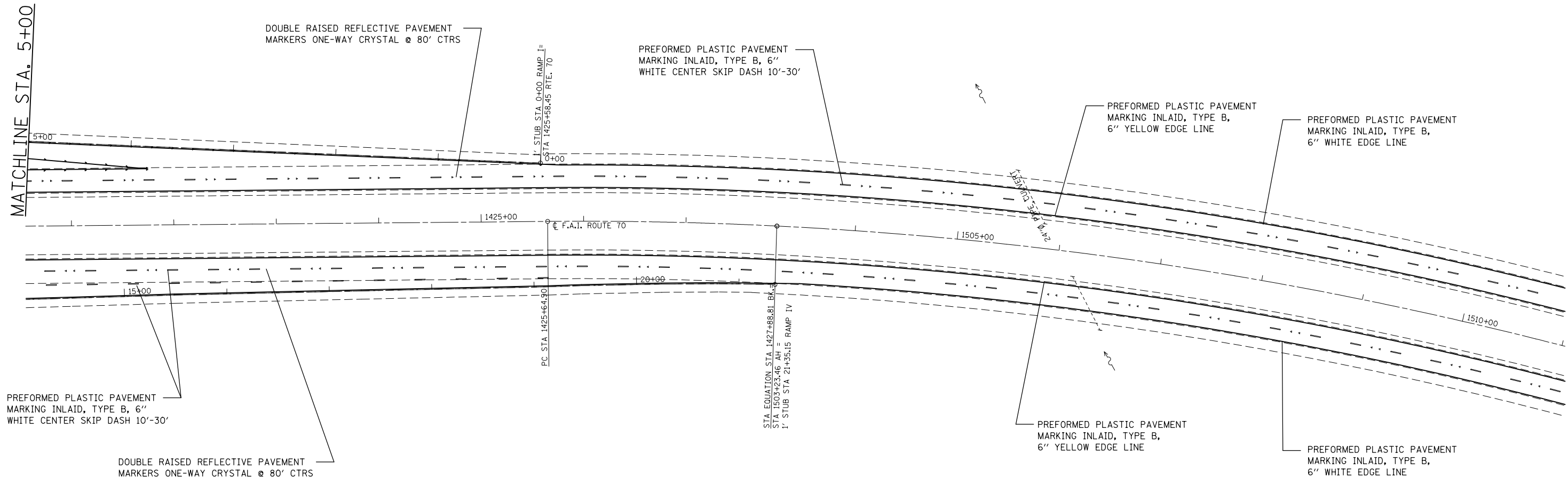
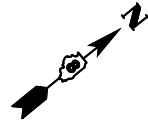
PAVEMENT MARKING PLAN

SCALE: 20 SHEET NO. 33 OF 49 SHEETS STA. 1579+00 TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	157
CONTRACT NO. 76F13				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



FILE NAME =	USER NAME = milleraj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 143 RAMP I PAVEMENT MARKING PLAN		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
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		CHECKED -	REVISED -						CONTRACT NO. 76F13				
		DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								
	PLOT SCALE = 100.0000' / 1" /												
	PLOT DATE = 6/27/2014												



EXIST. CURVE I70CLC1-1
 PI STA. = 1426+76.89
 Δ = 3° 21' 30" (RT)
 D = 1° 30' 00"
 R = 3,820.00'
 T = 111.99'
 L = 223.91'
 E = 1.64'
 e = ----
 T.R. = ----
 S.E. RUN = ----
 P.C. STA. = 1425+64.90
 P.T. STA. = 1427+88.81

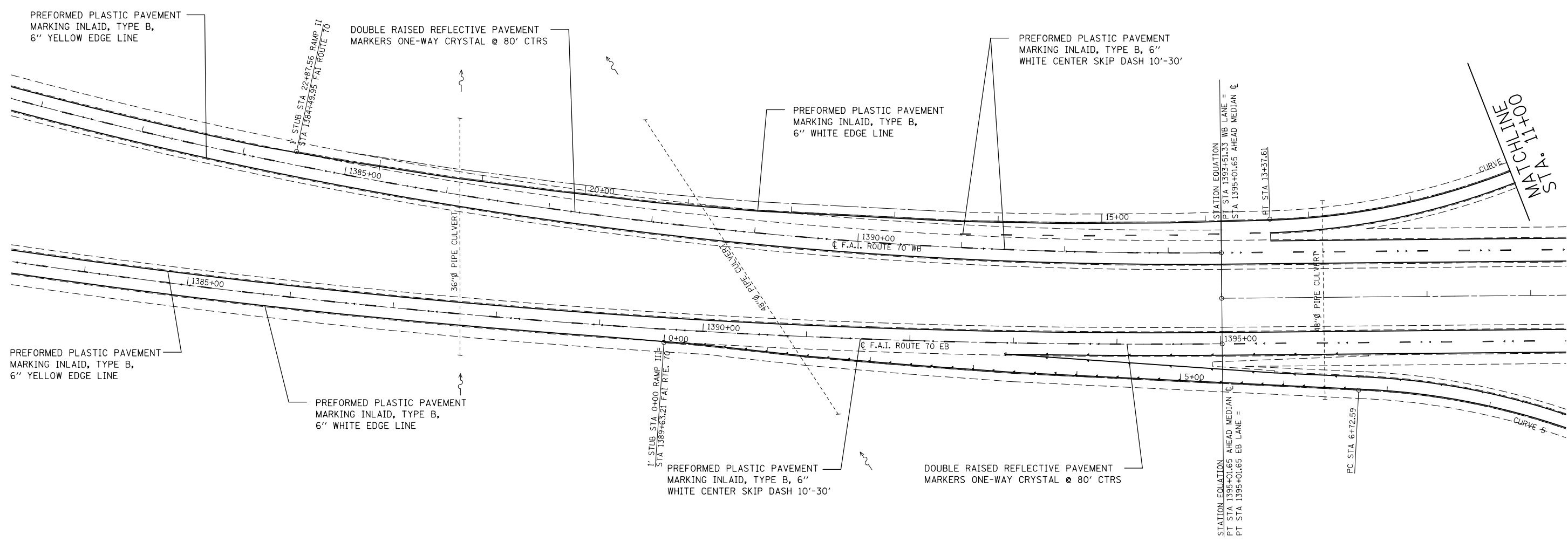
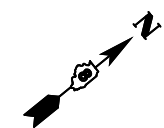
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PLOT SCALE = 100.0000' / in.		CHECKED -	REVISED -
PLOT DATE = 6/27/2014		DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

IL 143 RAMP I PAVEMENT MARKING PLAN

SCALE: 20 SHEET NO. 35 OF 49 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	159
CONTRACT NO. 76F13				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



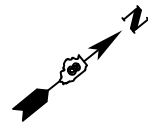
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	PLOT DATE = 6/27/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL 143 RAMPS II & III PAVEMENT MARKING PLAN

SCALE: 20 SHEET NO. 36 OF 49 SHEETS STA. TO STA.

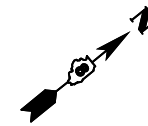
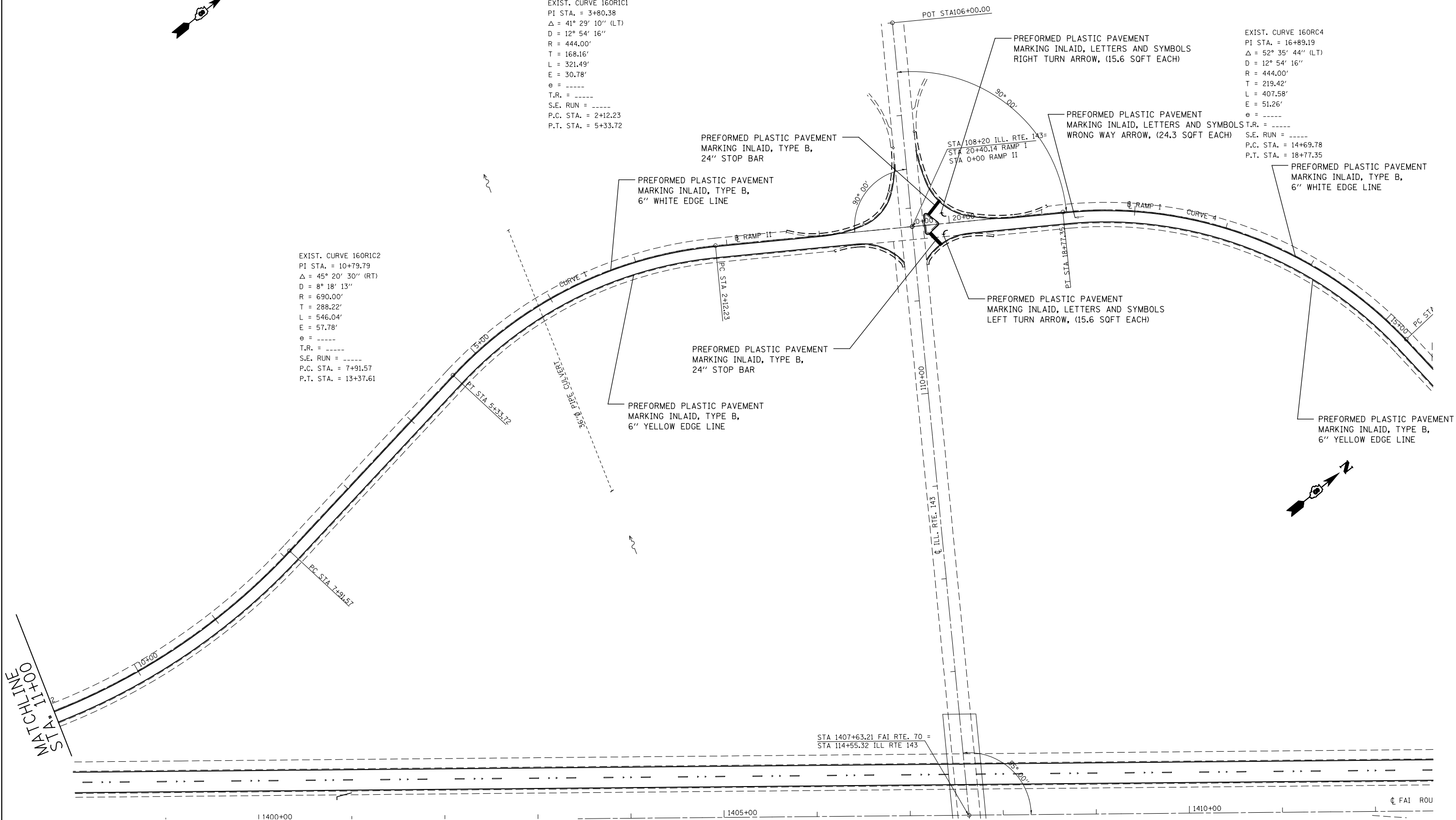
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	160
CONTRACT NO. 76F13				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



EXIST. CURVE 160R1C1
 PI STA. = 3+80.38
 Δ = 41° 29' 10" (LT)
 D = 12° 54' 16"
 R = 444.00'
 T = 168.16'
 L = 321.49'
 E = 30.78'
 θ = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 2+12.23
 P.T. STA. = 5+33.72

EXIST. CURVE 160R4
 PI STA. = 16+89.19
 Δ = 52° 35' 44" (LT)
 D = 12° 54' 16"
 R = 444.00'
 T = 219.42'
 L = 407.58'
 E = 51.26'
 θ = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 14+69.78
 P.T. STA. = 18+77.35

EXIST. CURVE 160R1C2
 PI STA. = 10+79.79
 Δ = 45° 20' 30" (RT)
 D = 8° 18' 13"
 R = 690.00'
 T = 288.22'
 L = 546.04'
 E = 57.78'
 θ = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 7+91.57
 P.T. STA. = 13+37.61



STATIONING
 STA 1400+00

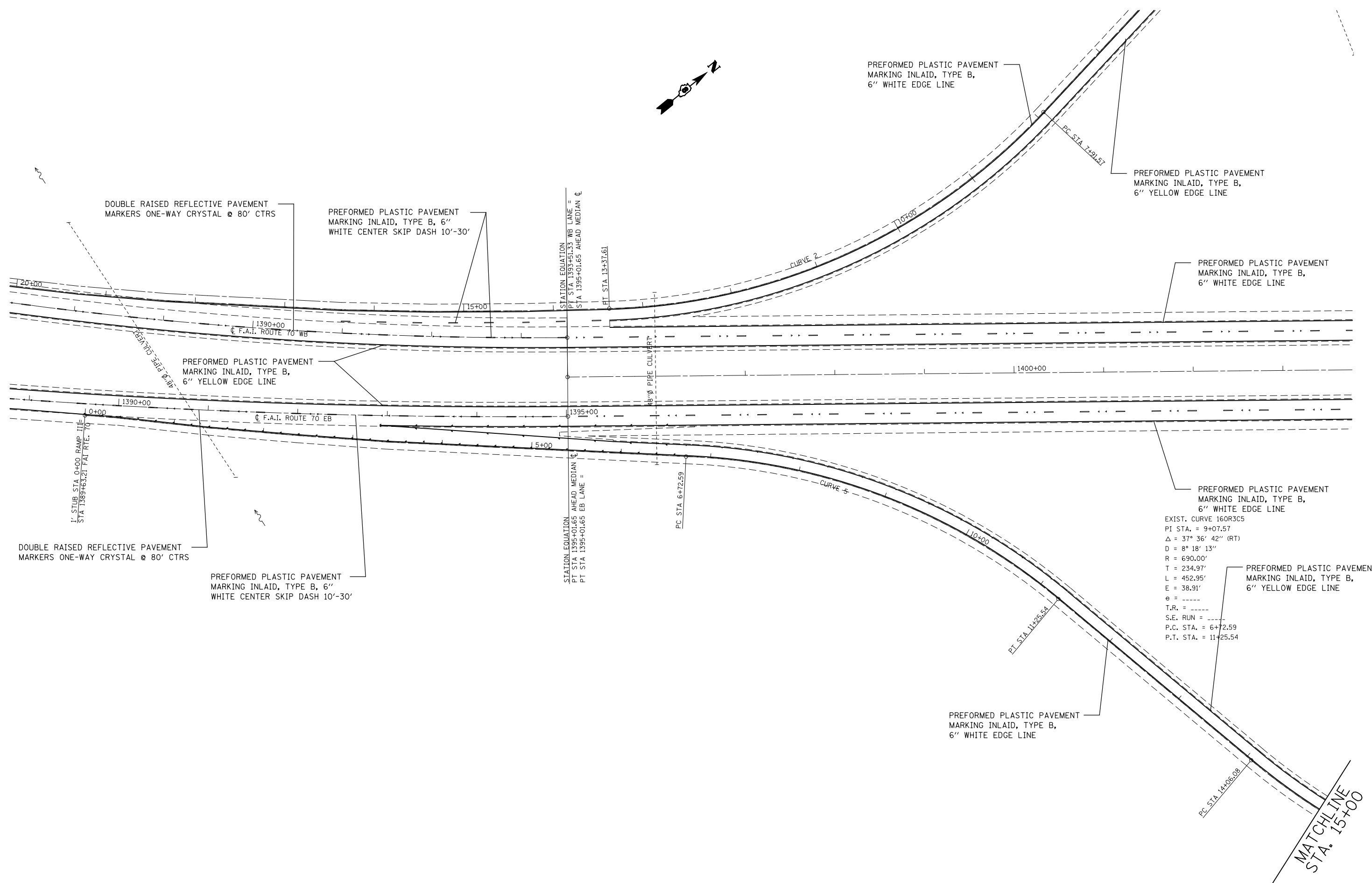
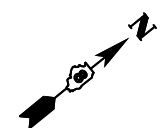
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PLOT DATE = 6/27/2014		DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

IL 143 RAMP I & II PAVEMENT MARKING PLAN

SCALE: 20 SHEET NO. 37 OF 49 SHEETS STA. TO STA.

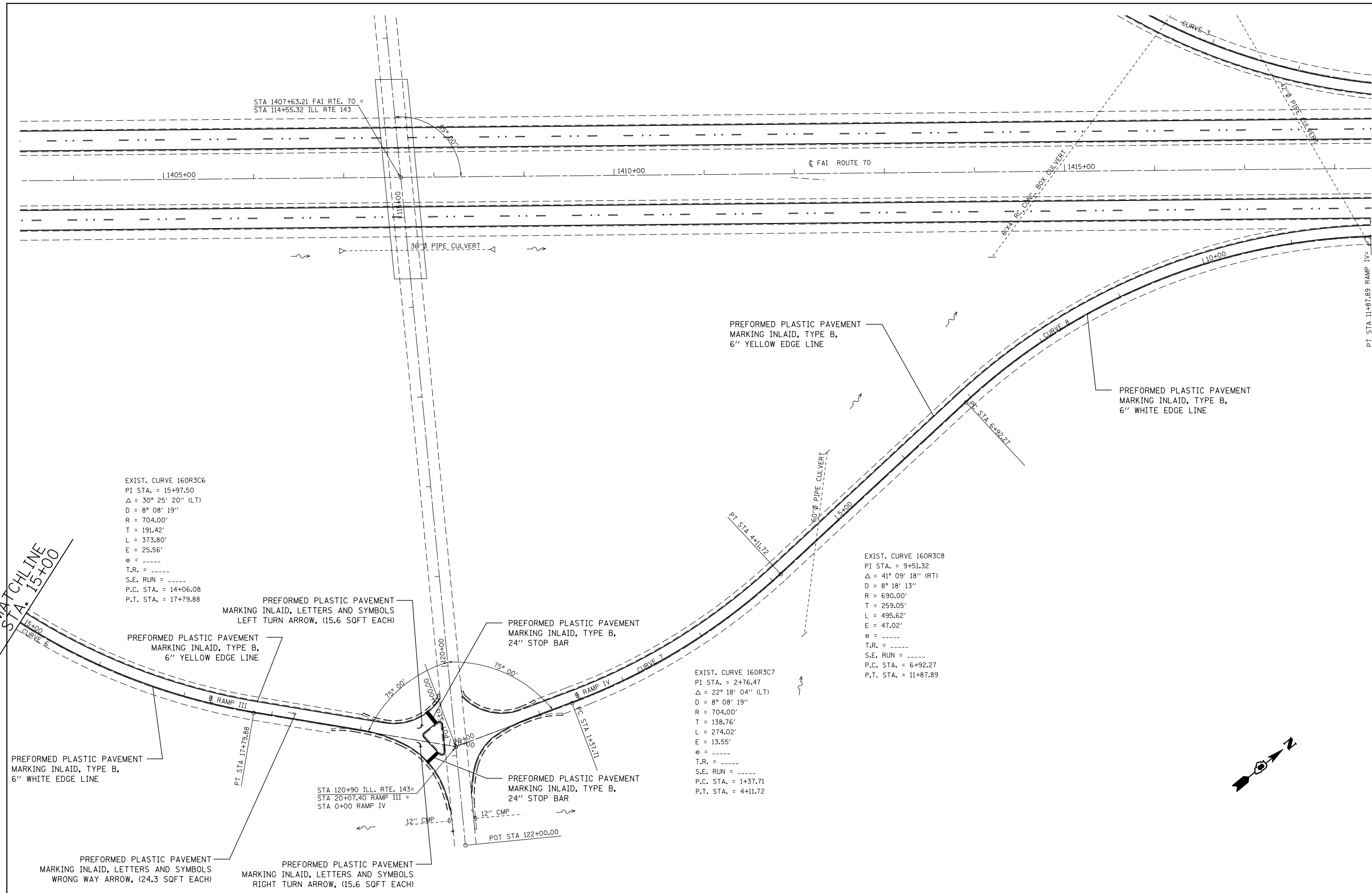
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	161
CONTRACT NO. 76F13				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



EXIST. CURVE 160R3C5
 PI STA. = 9+07.57
 $\Delta = 37^\circ 36' 42''$ (RT)
 $D = 8^\circ 18' 13''$
 $R = 690.00'$
 $T = 234.97'$
 $L = 452.95'$
 $E = 38.91'$
 $\theta = \dots$
 $T.R. = \dots$
 $S.E. RUN = \dots$
 $P.C. STA. = 6+72.59$
 $P.T. STA. = 11+25.54$

MATCHLINE
 STA. 15+00

FILE NAME = c:\pwork\pwork\milleraj\d0279918\d875f13-sht-pmk.dgn	USER NAME = milleraj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 143 RAMPS II & III PAVEMENT MARKING PLAN		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -				70	60-(11,12)RS-3	MADISON	242	162
PLOT DATE = 6/27/2014	DATE -	REVISED -	REVISED -	SCALE: 20	SHEET NO. 38 OF 49 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



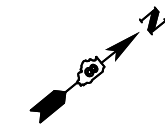
EXIST. CURVE 160R3C6
 PI STA. = 15+97.50
 $\Delta = 30^\circ 25' 20''$ (LT)
 $D = 8^\circ 08' 19''$
 $R = 704.00'$
 $T = 191.42'$
 $L = 373.80'$
 $E = 25.56'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. \text{ RUN} = \text{-----}$
 $P.C. \text{ STA.} = 14+06.08$
 $P.T. \text{ STA.} = 17+79.88$

EXIST. CURVE 160R3C8
 PI STA. = 9+51.32
 $\Delta = 41^\circ 09' 18''$ (RT)
 $D = 8^\circ 18' 13''$
 $R = 690.00'$
 $T = 259.05'$
 $L = 495.62'$
 $E = 47.02'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. \text{ RUN} = \text{-----}$
 $P.C. \text{ STA.} = 6+92.27$
 $P.T. \text{ STA.} = 11+87.89$

EXIST. CURVE 160R3C7
 PI STA. = 2+76.47
 $\Delta = 22^\circ 18' 04''$ (LT)
 $D = 8^\circ 08' 19''$
 $R = 704.00'$
 $T = 138.76'$
 $L = 274.02'$
 $E = 13.55'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. \text{ RUN} = \text{-----}$
 $P.C. \text{ STA.} = 1+37.71$
 $P.T. \text{ STA.} = 4+11.72$

MATCHLINE
 STA. 15+00
 CURVE 6

PT STA 11+87.89 RAMP IV



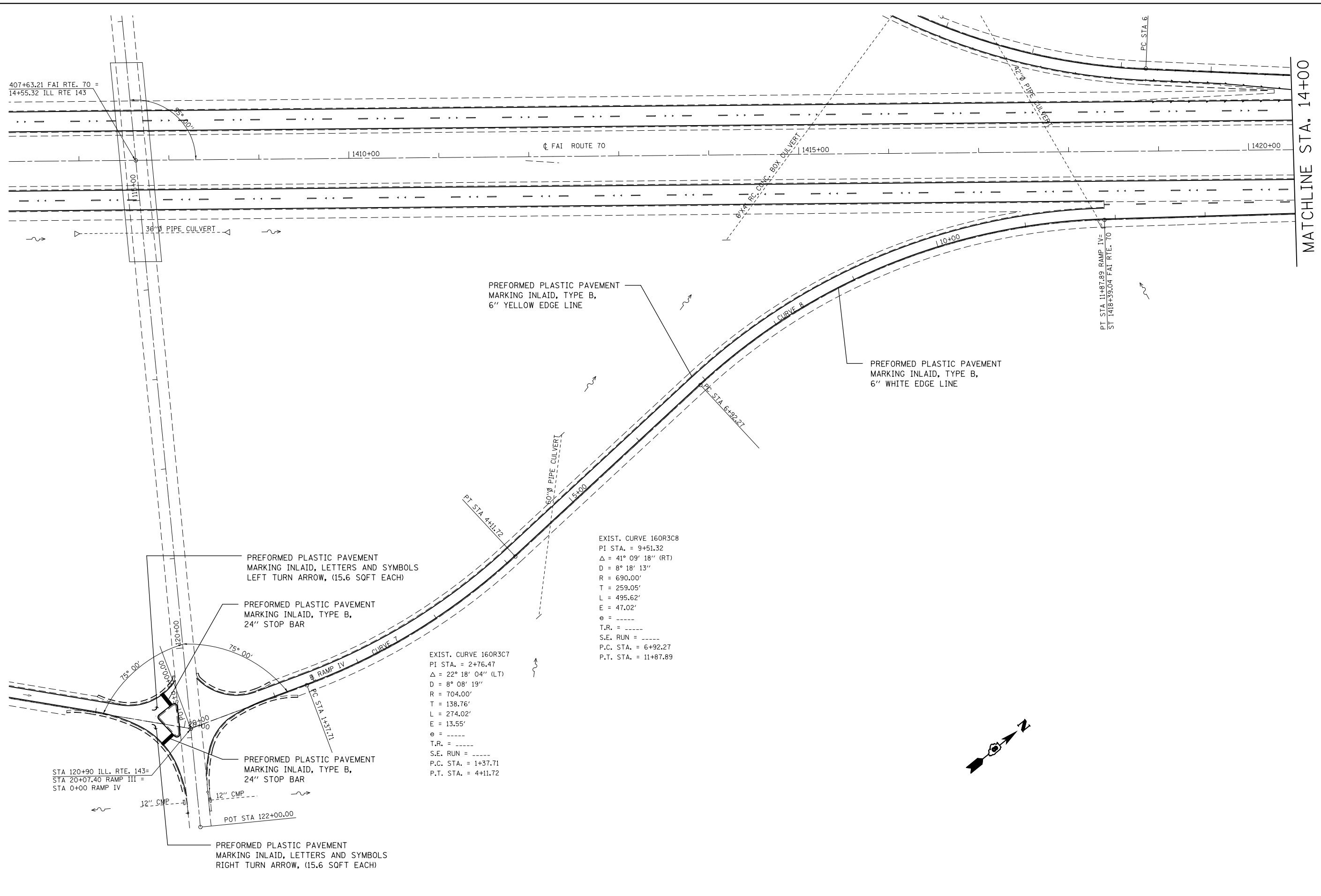
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PLOT SCALE = 100.0000' / 1"		CHECKED -	REVISED -
PLOT DATE = 6/27/2014		DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

IL 143 RAMPS III & IV PAVEMENT MARKING PLAN

SCALE: 20 SHEET NO. 39 OF 49 SHEETS STA. TO STA.

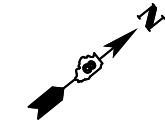
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	163
CONTRACT NO. 76F13				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



MATCHLINE STA. 14+00

EXIST. CURVE 160R3C8
 PI STA. = 9+51.32
 Δ = 41° 09' 18" (RT)
 D = 8° 18' 13"
 R = 690.00'
 T = 259.05'
 L = 495.62'
 E = 47.02'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 6+92.27
 P.T. STA. = 11+87.89

EXIST. CURVE 160R3C7
 PI STA. = 2+76.47
 Δ = 22° 18' 04" (LT)
 D = 8° 08' 19"
 R = 704.00'
 T = 138.76'
 L = 274.02'
 E = 13.55'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 1+37.71
 P.T. STA. = 4+11.72



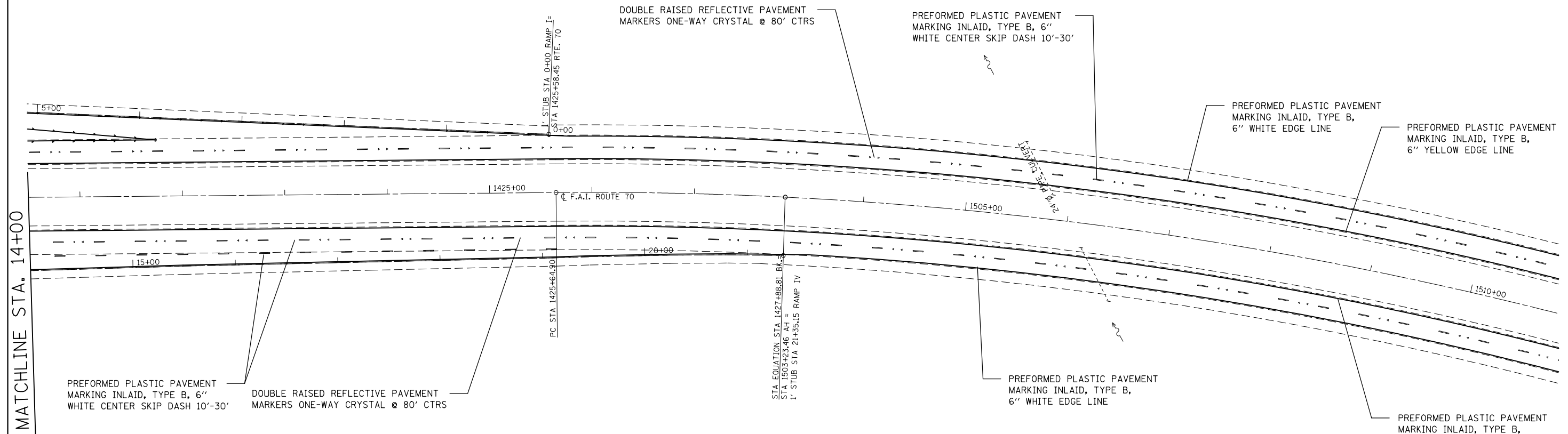
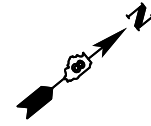
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PLOT SCALE = 100.0000' / in.		CHECKED -	REVISED -
PLOT DATE = 6/27/2014		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL 143 RAMPS III & IV PAVEMENT MARKING PLAN

SCALE: 20 SHEET NO. 40 OF 49 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	164
CONTRACT NO. 76F13				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



EXIST. CURVE I70CLC1-1
 PI STA. = 1426+76.89
 Δ = 3° 21' 30" (RT)
 D = 1° 30' 00"
 R = 3,820.00'
 T = 111.99'
 L = 223.91'
 E = 1.64'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 1425+64.90
 P.T. STA. = 1427+88.81

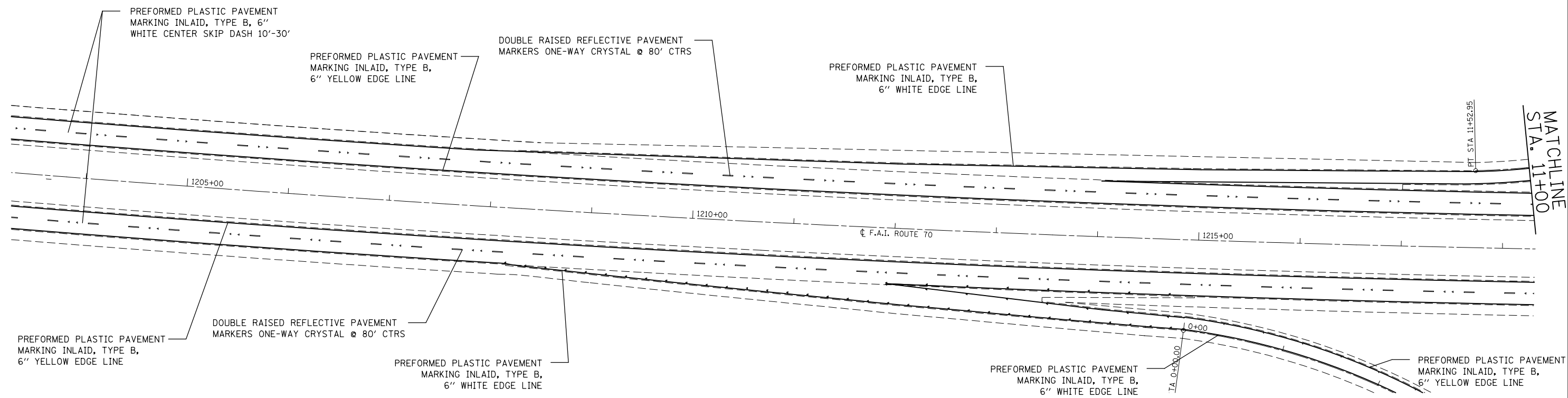
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	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/27/2014	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

IL 143 RAMP IV PAVEMENT MARKING PLAN

SCALE: 20 SHEET NO. 41 OF 49 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	165
CONTRACT NO. 76F13				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



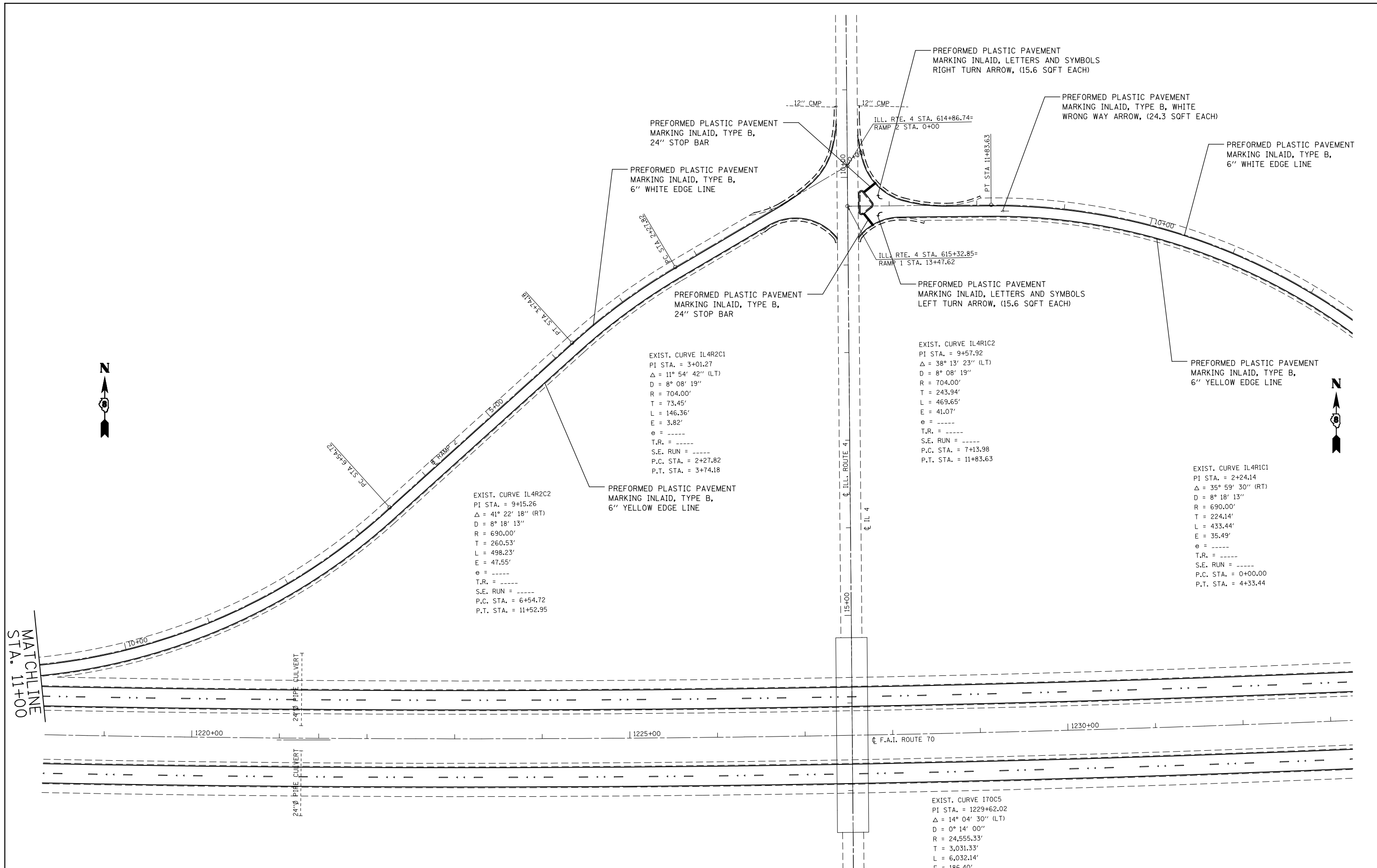
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	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/27/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL 4 RAMPS II & III PAVEMENT MARKING PLAN

SCALE: 20 SHEET NO. 42 OF 49 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	166
CONTRACT NO. 76F13				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



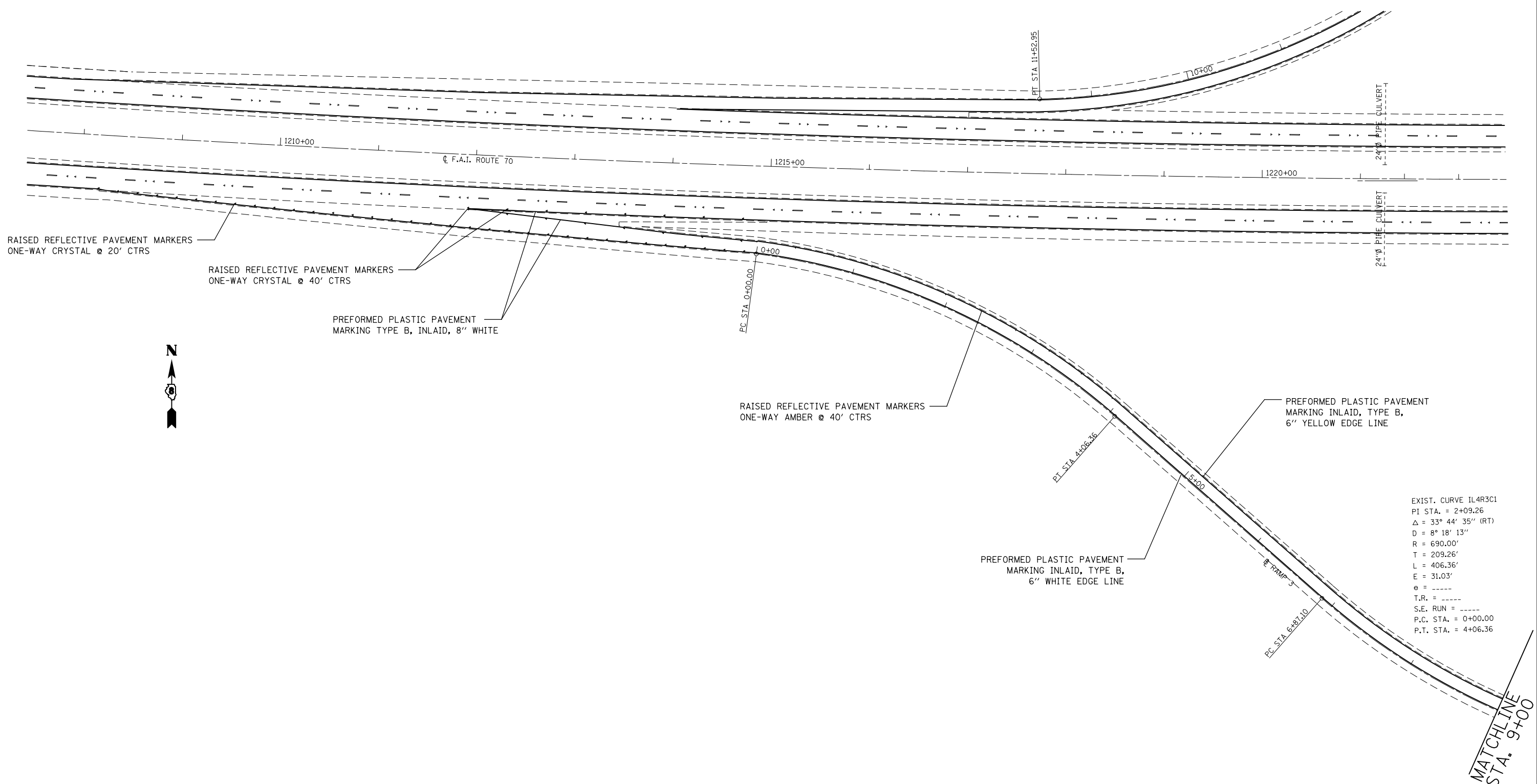
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	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -
	PLOT DATE = 6/27/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL 4 RAMPS I & II PAVEMENT MARKING PLAN

SCALE: 20 SHEET NO. 43 OF 49 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	167
CONTRACT NO. 76F13				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



EXIST. CURVE IL4R3C1
 PI STA. = 2+09.26
 Δ = 33° 44' 35" (RT)
 D = 8° 18' 13"
 R = 690.00'
 T = 209.26'
 L = 406.36'
 E = 31.03'
 θ = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 0+00.00
 P.T. STA. = 4+06.36

MATCHLINE
 STA. 9+00

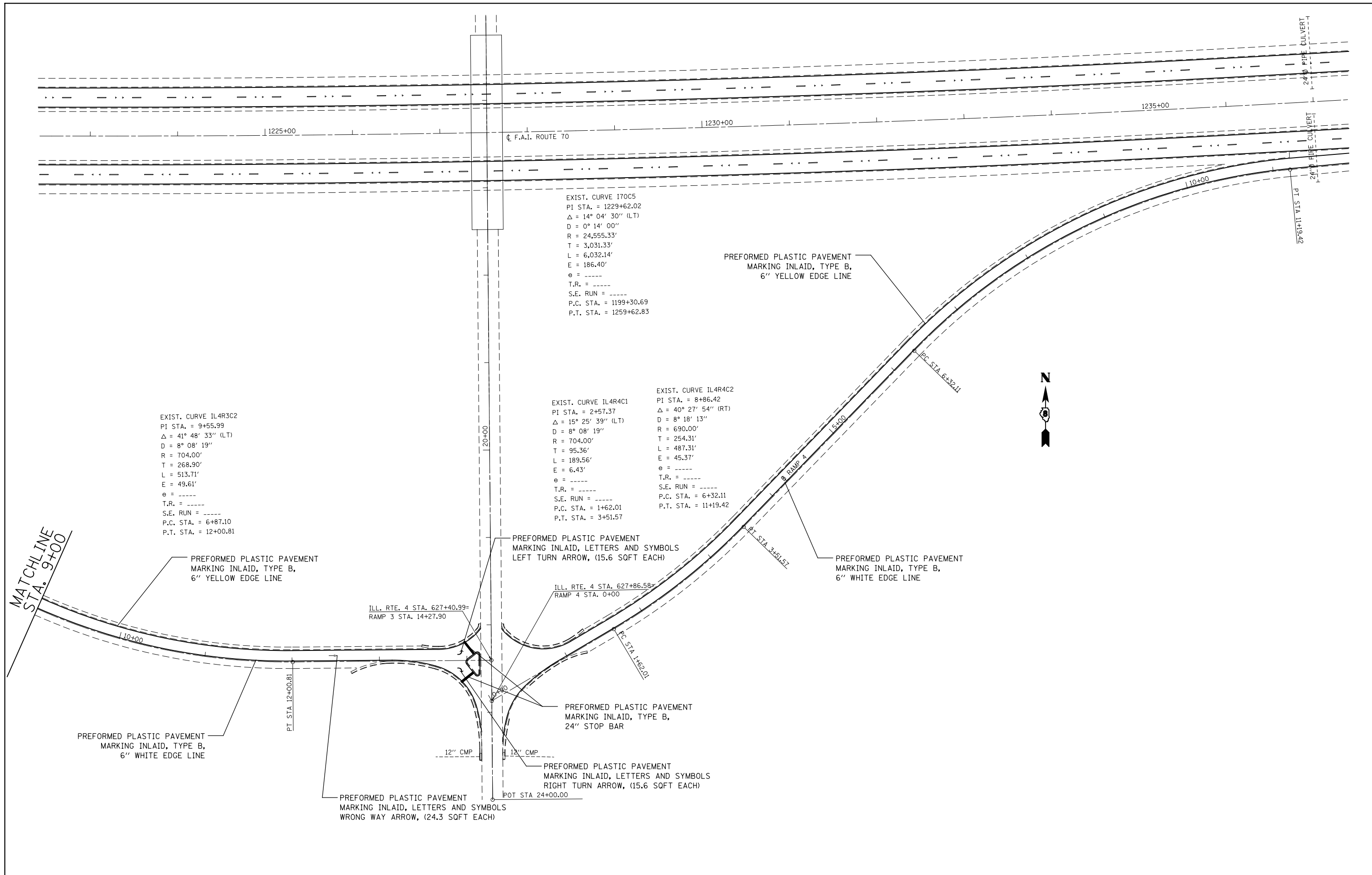
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PLOT SCALE = 100.0000' / in.		CHECKED -	REVISED -
PLOT DATE = 6/27/2014		DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

IL 4 RAMP III PAVEMENT MARKING PLAN

SCALE: 20 SHEET NO. 44 OF 49 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	168
CONTRACT NO. 76F13				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

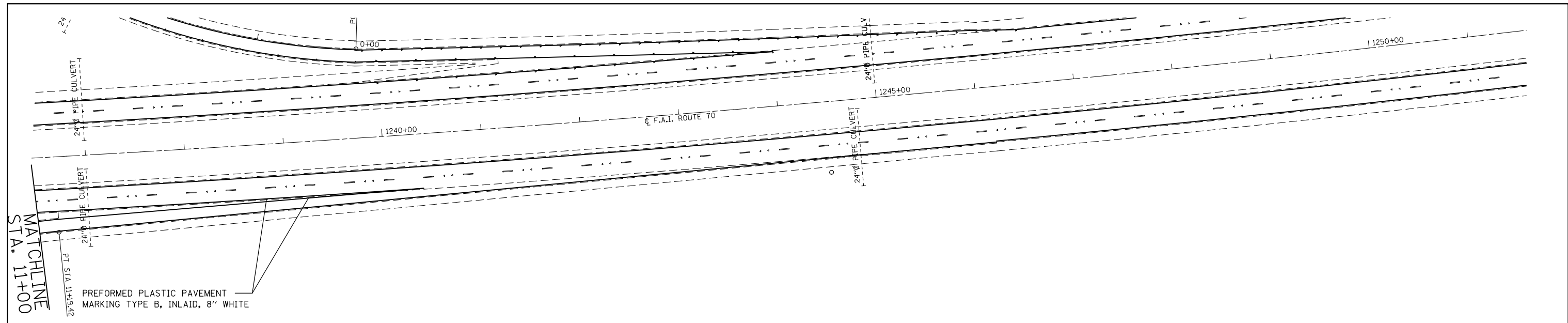


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PLOT SCALE = 100.0000' / 1"		CHECKED -	REVISED -
PLOT DATE = 6/27/2014		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL 4 RAMPS III & IV PAVEMENT MARKING PLAN			
SCALE: 20	SHEET NO. 45 OF 49 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	169
CONTRACT NO. 76F13				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



MATCHLINE
STA. 11+00

PREFORMED PLASTIC PAVEMENT
MARKING TYPE B, INLAID, 8" WHITE

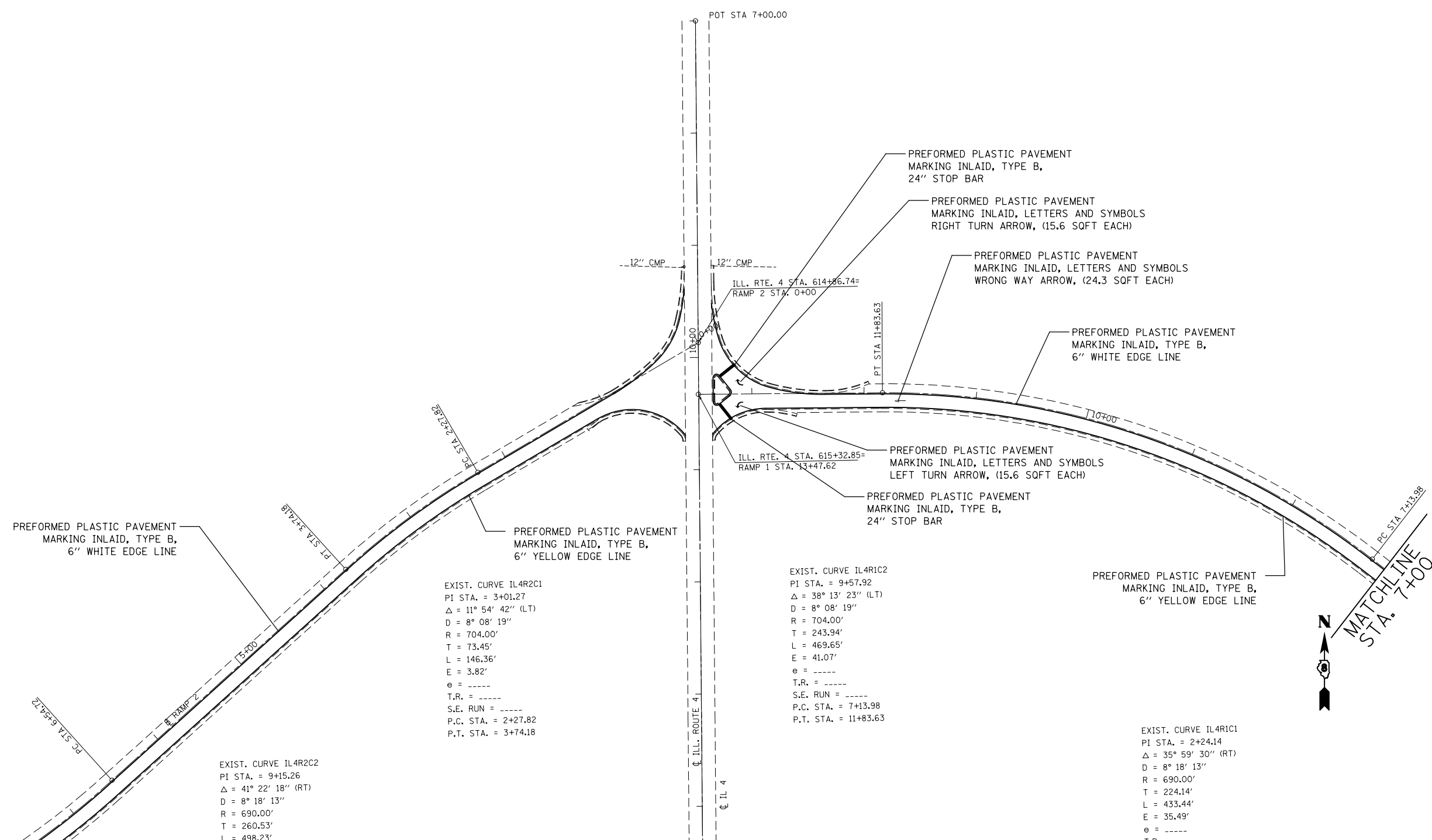
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	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/27/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL 4 RAMPS I & IV PAVEMENT MARKING PLAN

SCALE: 20 SHEET NO. 47 OF 49 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	171
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F13	



PREFORMED PLASTIC PAVEMENT MARKING INLAID, TYPE B, 6\"/>

PREFORMED PLASTIC PAVEMENT MARKING INLAID, TYPE B, 6\"/>

PREFORMED PLASTIC PAVEMENT MARKING INLAID, TYPE B, 24\"/>

PREFORMED PLASTIC PAVEMENT MARKING INLAID, LETTERS AND SYMBOLS RIGHT TURN ARROW, (15.6 SQFT EACH)

PREFORMED PLASTIC PAVEMENT MARKING INLAID, LETTERS AND SYMBOLS WRONG WAY ARROW, (24.3 SQFT EACH)

PREFORMED PLASTIC PAVEMENT MARKING INLAID, TYPE B, 6\"/>

PREFORMED PLASTIC PAVEMENT MARKING INLAID, LETTERS AND SYMBOLS LEFT TURN ARROW, (15.6 SQFT EACH)

PREFORMED PLASTIC PAVEMENT MARKING INLAID, TYPE B, 24\"/>

PREFORMED PLASTIC PAVEMENT MARKING INLAID, TYPE B, 6\"/>

EXIST. CURVE IL4R2C1
 PI STA. = 3+01.27
 $\Delta = 11^\circ 54' 42''$ (LT)
 D = 8' 08' 19"
 R = 704.00'
 T = 73.45'
 L = 146.36'
 E = 3.82'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 2+27.82
 P.T. STA. = 3+74.18

EXIST. CURVE IL4R1C2
 PI STA. = 9+57.92
 $\Delta = 38^\circ 13' 23''$ (LT)
 D = 8' 08' 19"
 R = 704.00'
 T = 243.94'
 L = 469.65'
 E = 41.07'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 7+13.98
 P.T. STA. = 11+83.63

EXIST. CURVE IL4R1C1
 PI STA. = 2+24.14
 $\Delta = 35^\circ 59' 30''$ (RT)
 D = 8' 18' 13"
 R = 690.00'
 T = 224.14'
 L = 433.44'
 E = 35.49'
 e = -----
 T.R. = -----
 S.E. RUN = -----

EXIST. CURVE IL4R2C2
 PI STA. = 9+15.26
 $\Delta = 41^\circ 22' 18''$ (RT)
 D = 8' 18' 13"
 R = 690.00'
 T = 260.53'
 L = 498.23'



MATCHLINE
 STA. 7+00

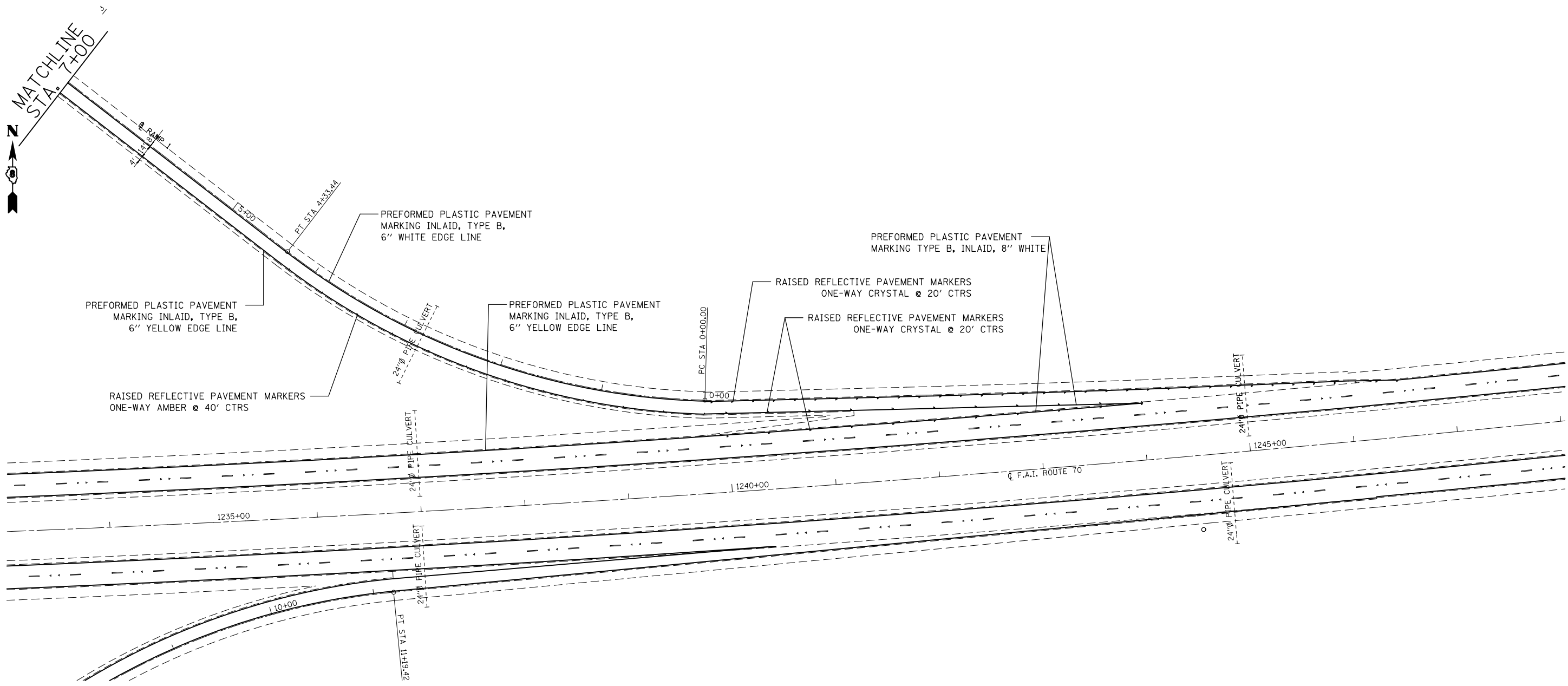
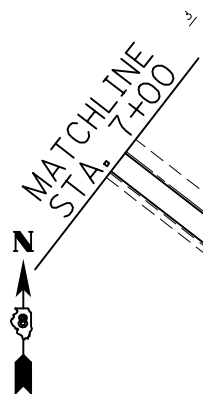
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PLOT SCALE = 100.0000' / in.		CHECKED -	REVISED -
PLOT DATE = 6/27/2014		DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

IL 4 RAMPS I & II PAVEMENT MARKING PLAN

SCALE: 20 SHEET NO. 48 OF 49 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	172
CONTRACT NO. 76F13				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



FILE NAME =	USER NAME = milleraj	DESIGNED -	REVISED -
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	PLOT DATE = 6/27/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

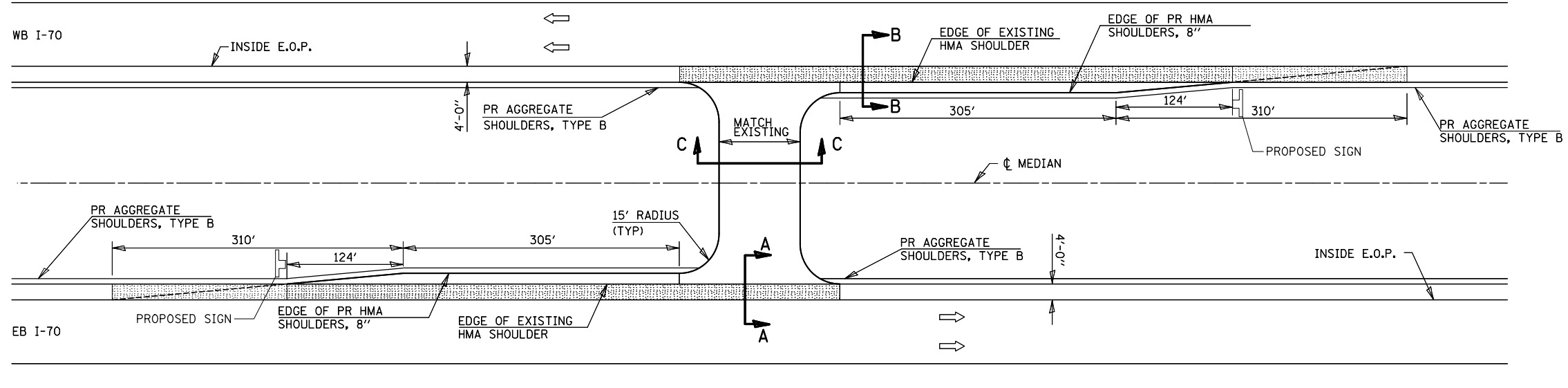
IL 4 RAMPS I & IV PAVEMENT MARKING PLAN

SCALE: 20 SHEET NO. 49 OF 49 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	173
CONTRACT NO. 76F13				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

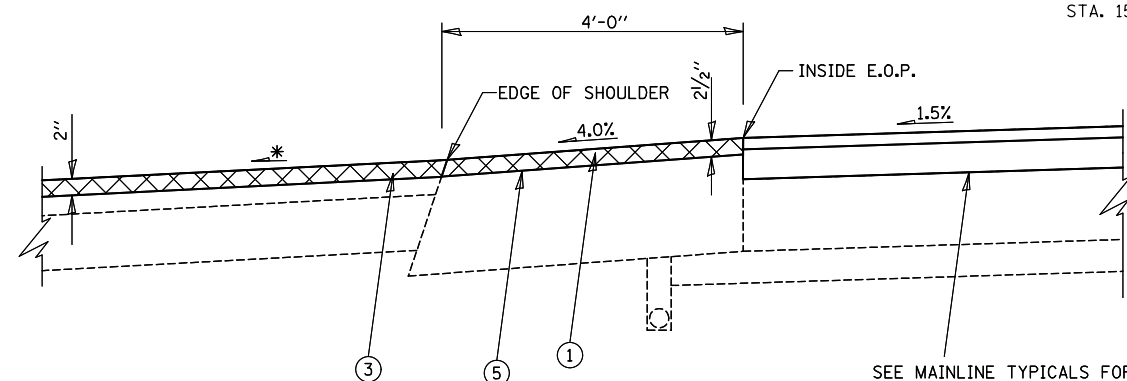
EMERGENCY MEDIAN CROSSOVERS

NOTES:
 TWO DELINEATORS SHALL BE PLACED IN ADVANCE OF THE MEDIAN CROSSOVERS. ONE SHALL BE AT THE CROSSOVER, THE OTHER 800 FT IN ADVANCE OF THE FIRST. THE DELINEATOR AT THE CROSSOVER SHALL HAVE TWO AMBER REFLECTORS, AND THE DELINEATOR 800 FT IN ADVANCE SHALL HAVE THREE AMBER REFLECTORS
 OMIT RUMBLE STRIPS IN SHADED [Hatched Box] AREAS OF SHOULDER

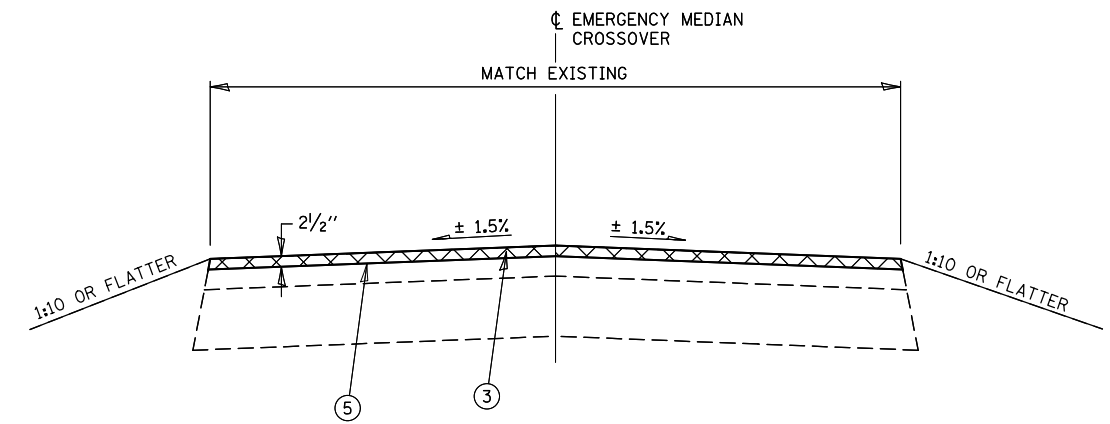


PLAN VIEW

STA. 1139+72
 STA. 1271+25
 STA. 1517+58



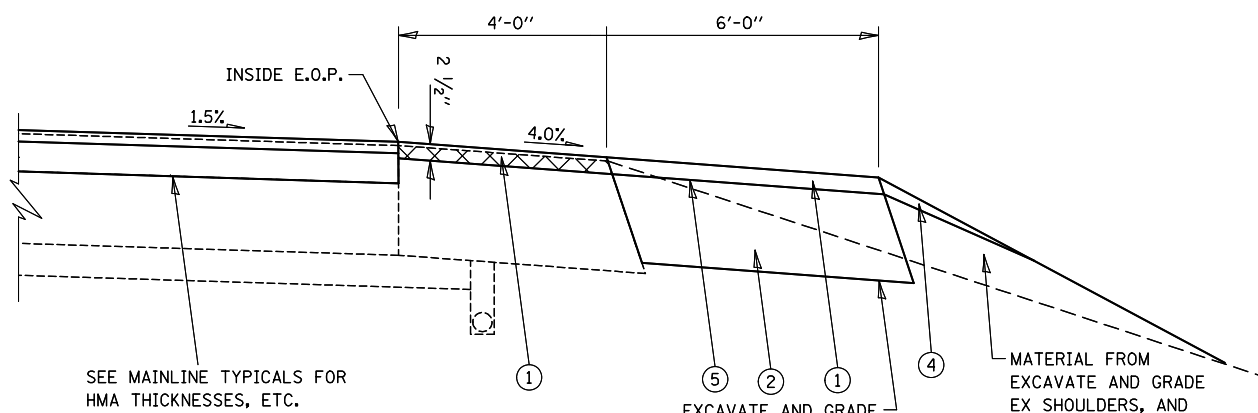
SECTION A - A



SECTION C - C

- LEGEND**

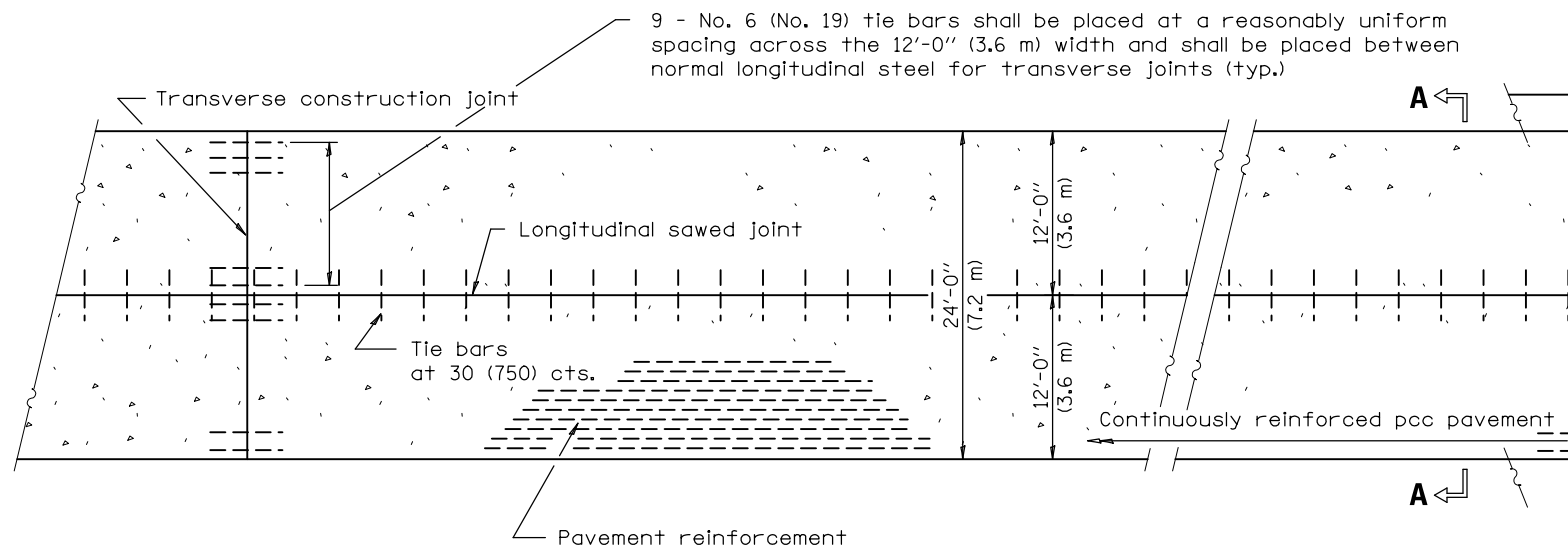
 - ① PROPOSED HOT-MIX ASPHALT SHOULDERS, 2 1/2"
 - ② PROPOSED HOT-MIX ASPHALT SHOULDERS, 8"
 - ③ PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, SMA, N80, 2 1/2"
 - ④ PROPOSED AGGREGATE WEDGE SHOULDERS, TYPE B
 - ⑤ PROPOSED POLY BITUMINOUS MATERIAL (PRIME COAT)



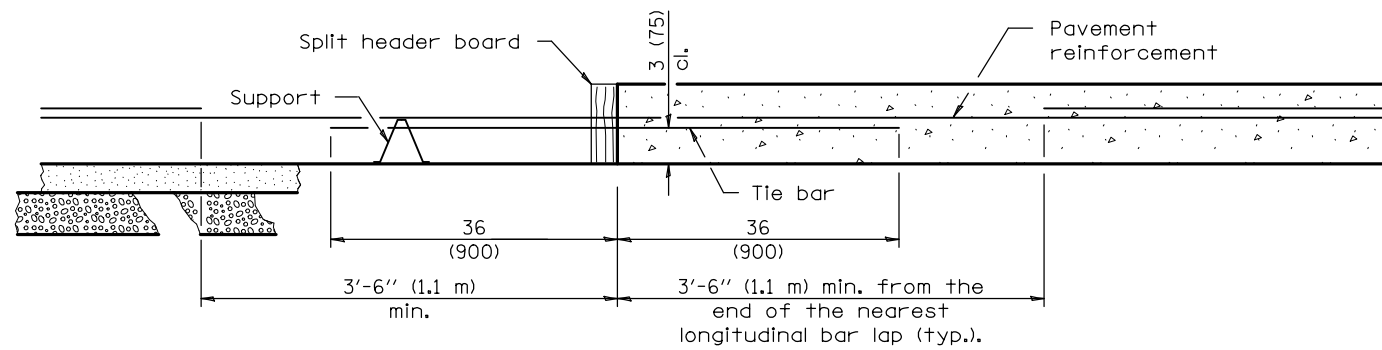
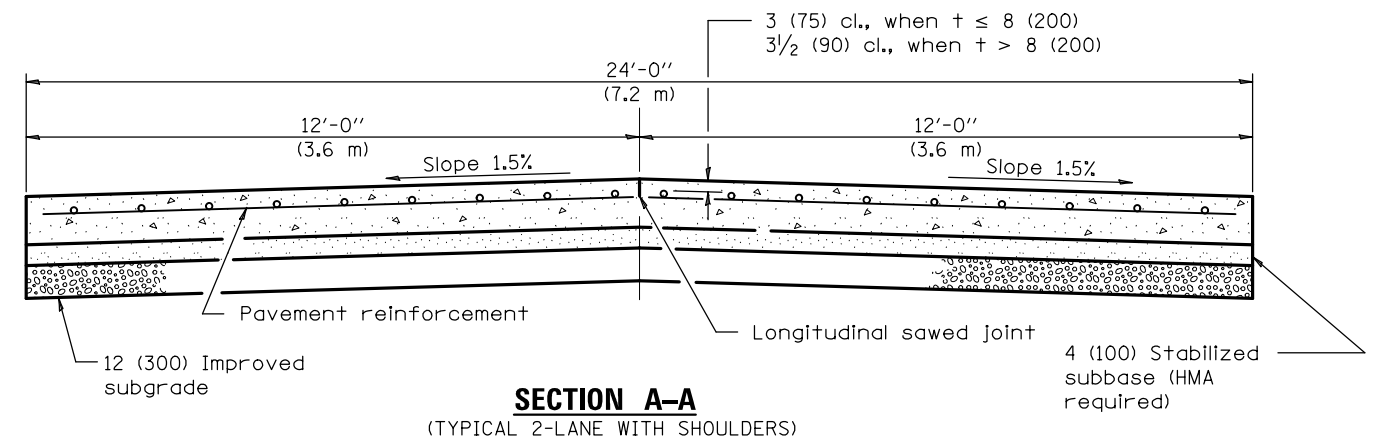
SECTION B - B

[Hatched Box] HMA SURFACE REMOVAL 2 1/2"

FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EMERGENCY MEDIAN CROSS OVER DETAIL			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -						60-(11,12)RS-3		242	174
		CHECKED -	REVISED -								CONTRACT NO. 76F13	
		DATE -	REVISED -					SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.



PLAN



TRANSVERSE CONSTRUCTION JOINT

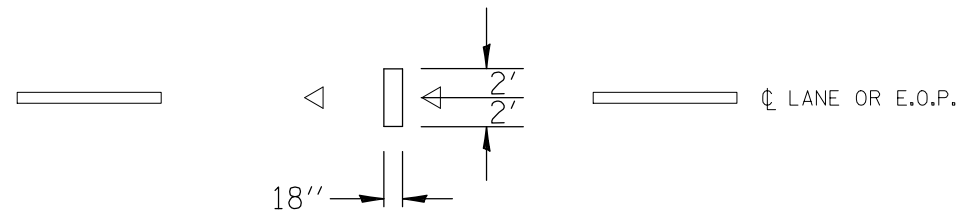
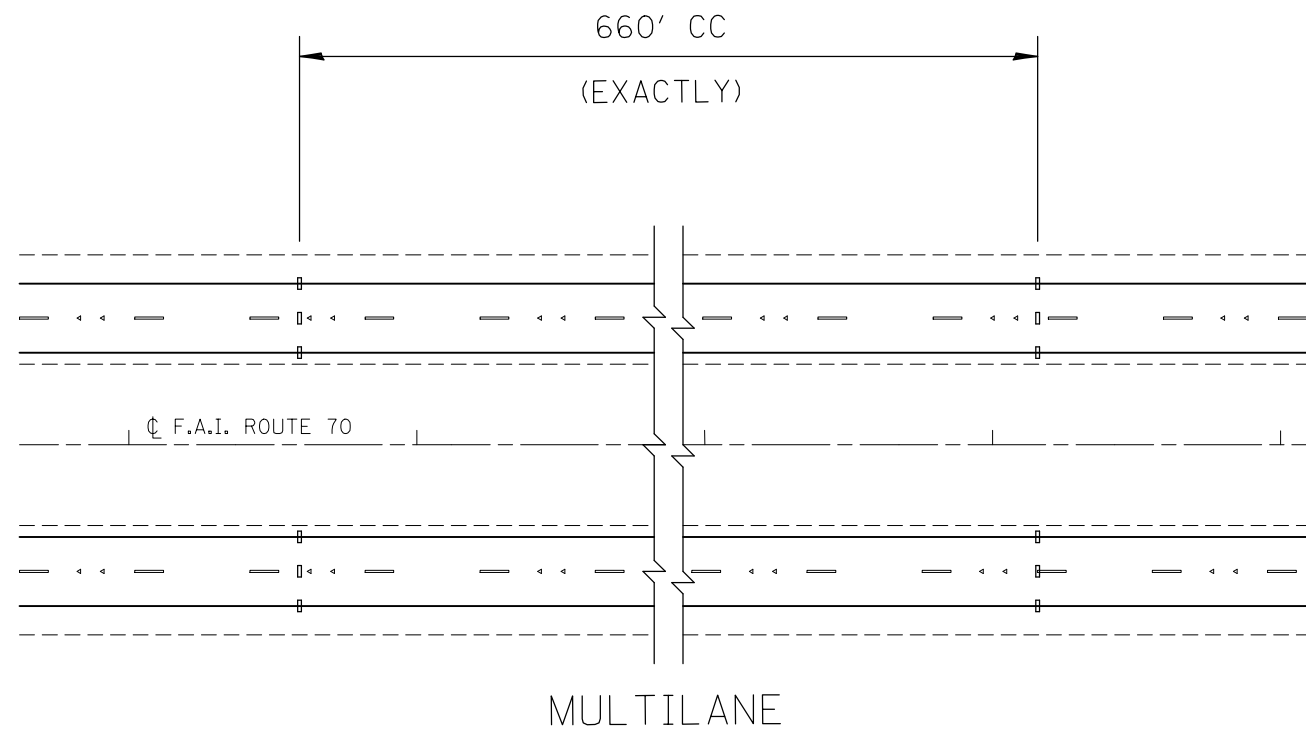
GENERAL NOTES

See Standards 420001 and 420401 for joint details not shown.

See Standard 421001 for details of pavement reinforcement.

All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME = *FILEL*	USER NAME = *USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CRC PAVEMENT				F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -						60-(11,12)RS-3			242	175
		CHECKED -	REVISED -			SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO. 76F13		
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT							



AERIAL SPEED CHECK ZONE DETAIL

EB/WB STA. 1031+05
 EB STA. 1337+70
 WB STA. 1543+23

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

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

AERIAL SPEED CHECK ZONE DETAIL

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

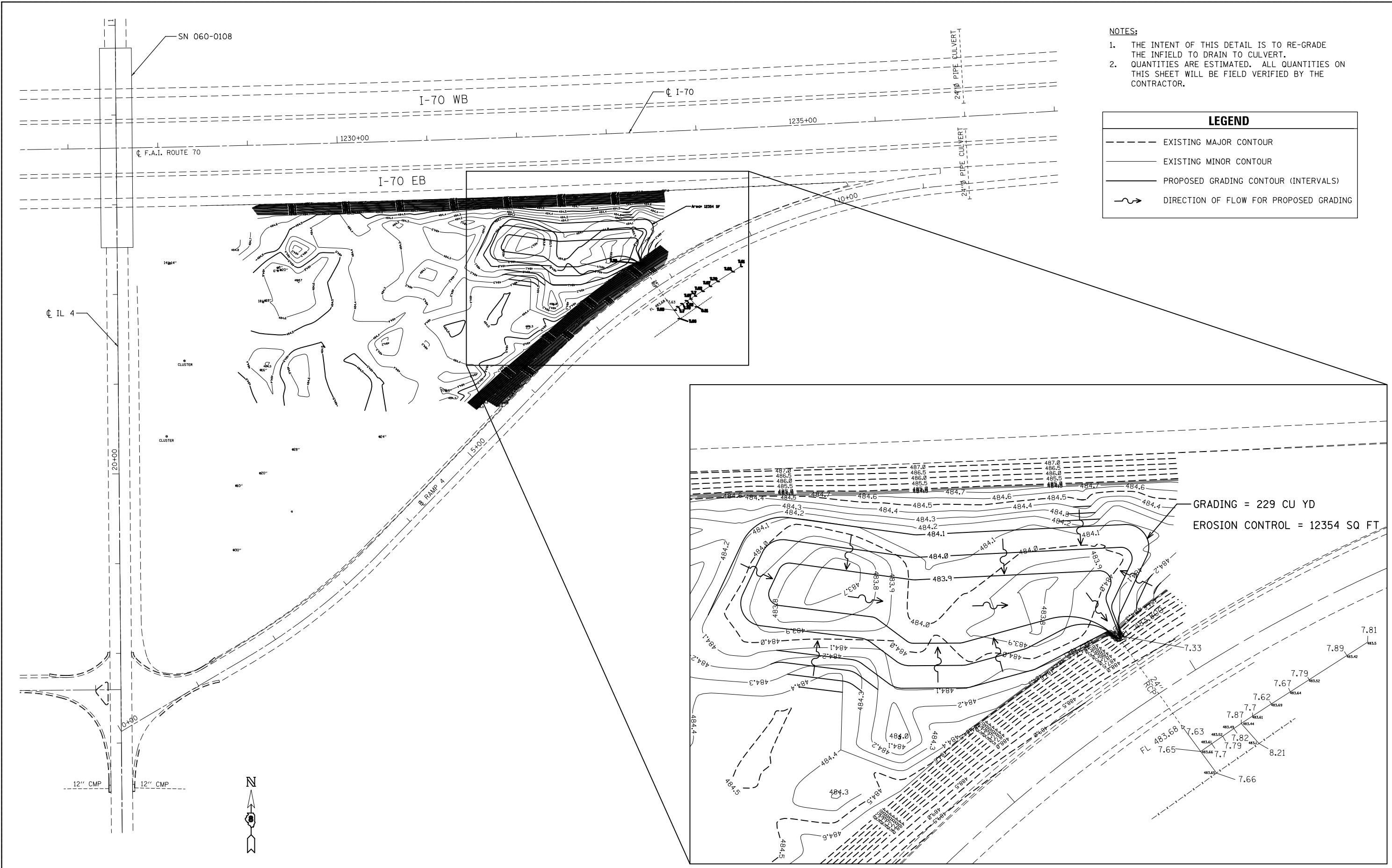
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11,12)RS-3	MADISON	242	176
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F13	

NOTES:

1. THE INTENT OF THIS DETAIL IS TO RE-GRADE THE INFIELD TO DRAIN TO CULVERT.
2. QUANTITIES ARE ESTIMATED. ALL QUANTITIES ON THIS SHEET WILL BE FIELD VERIFIED BY THE CONTRACTOR.

LEGEND

- - - - - EXISTING MAJOR CONTOUR
- — — — — EXISTING MINOR CONTOUR
- — — — — PROPOSED GRADING CONTOUR (INTERVALS)
- DIRECTION OF FLOW FOR PROPOSED GRADING



GRADING = 229 CU YD
 EROSION CONTROL = 12354 SQ FT

FILE NAME = *FILEL*	USER NAME = *USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GRADING DETAIL IL 4 INTERCHANGE - SE QUADRANT			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = *SCALE*	DRAWN -	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	60-111,12/RS-3		242	177
	PLOT DATE = *DATE*	CHECKED -	REVISED -										
		DATE -	REVISED -										
											CONTRACT NO. 76F13		
											ILLINOIS FED. AID PROJECT		

GENERAL NOTES

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

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 shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

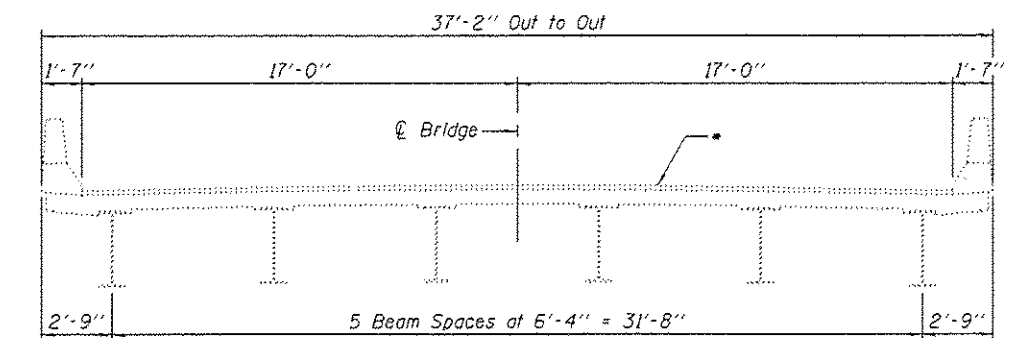
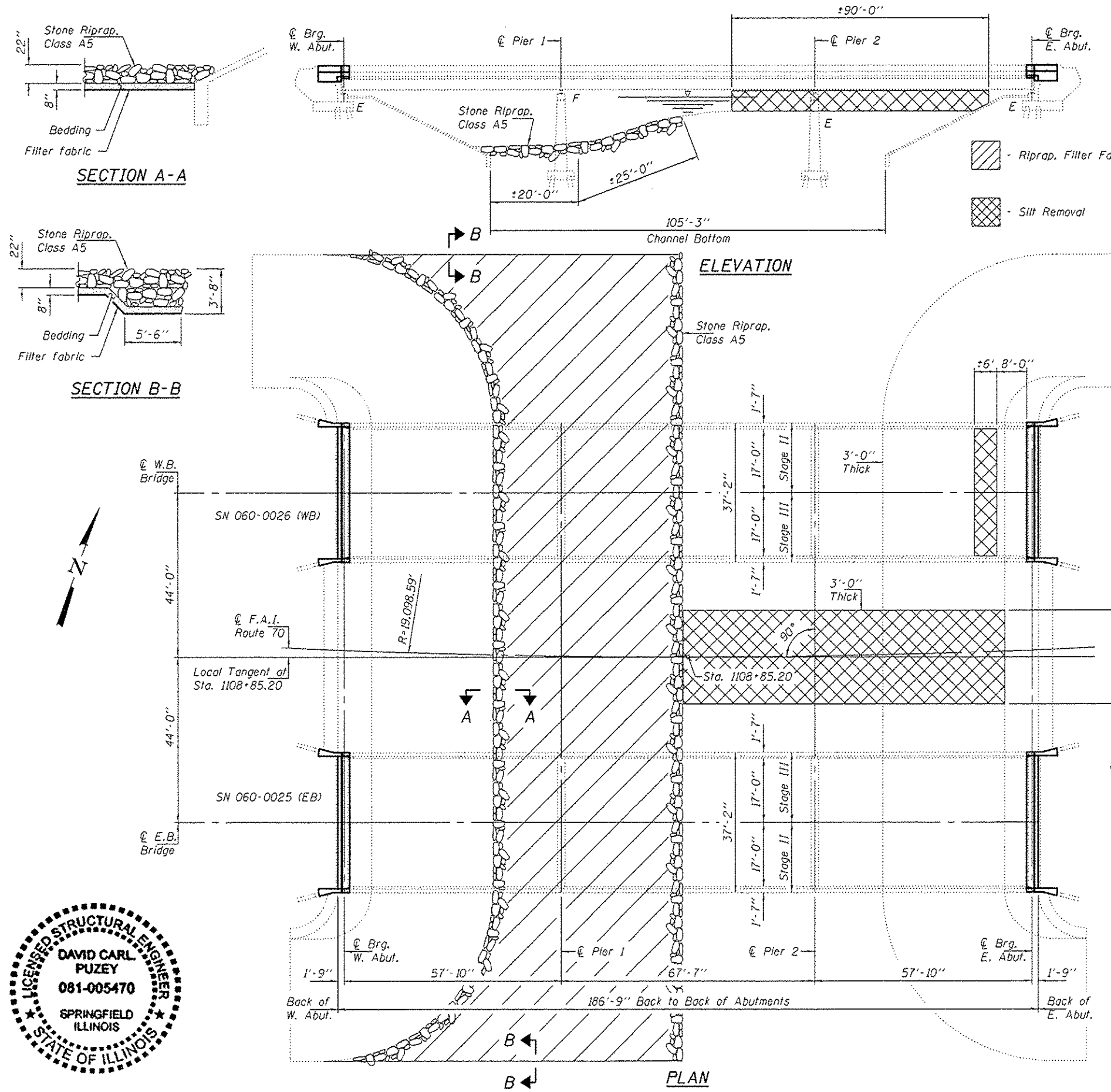
Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods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

The new deck surface shall have its final finish tined according to Article 420.09(e)(1) of the Standard Specifications. Cost included with Concrete Superstructure.

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.

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

Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". All beams, bearings and other structural steel within 5 ft. (measured along beam) of either side of deck joints shall be cleaned per Near White Blast Cleaning - SSPC-SP10. The exterior surfaces and bottom of the bottom flange of the fascia beams shall be cleaned per Commercial Grade Power Tool Cleaning - SSPC-SP15. The designated areas cleaned per Near White Blast Cleaning and per Commercial Grade Power Tool Cleaning shall be painted according to the requirements of Paint System 1 - OZ/E/U. The color of the final finish coat for all interior and exterior steel surfaces shall be Interstate Green, Munsell No. 7.5G 4/8.

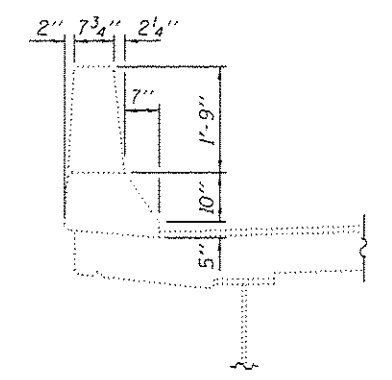


CROSS SECTION

* Apply Bridge Deck Concrete Sealer to the deck surface and the inside face & top of the parapets.

TOTAL BILL OF MATERIAL

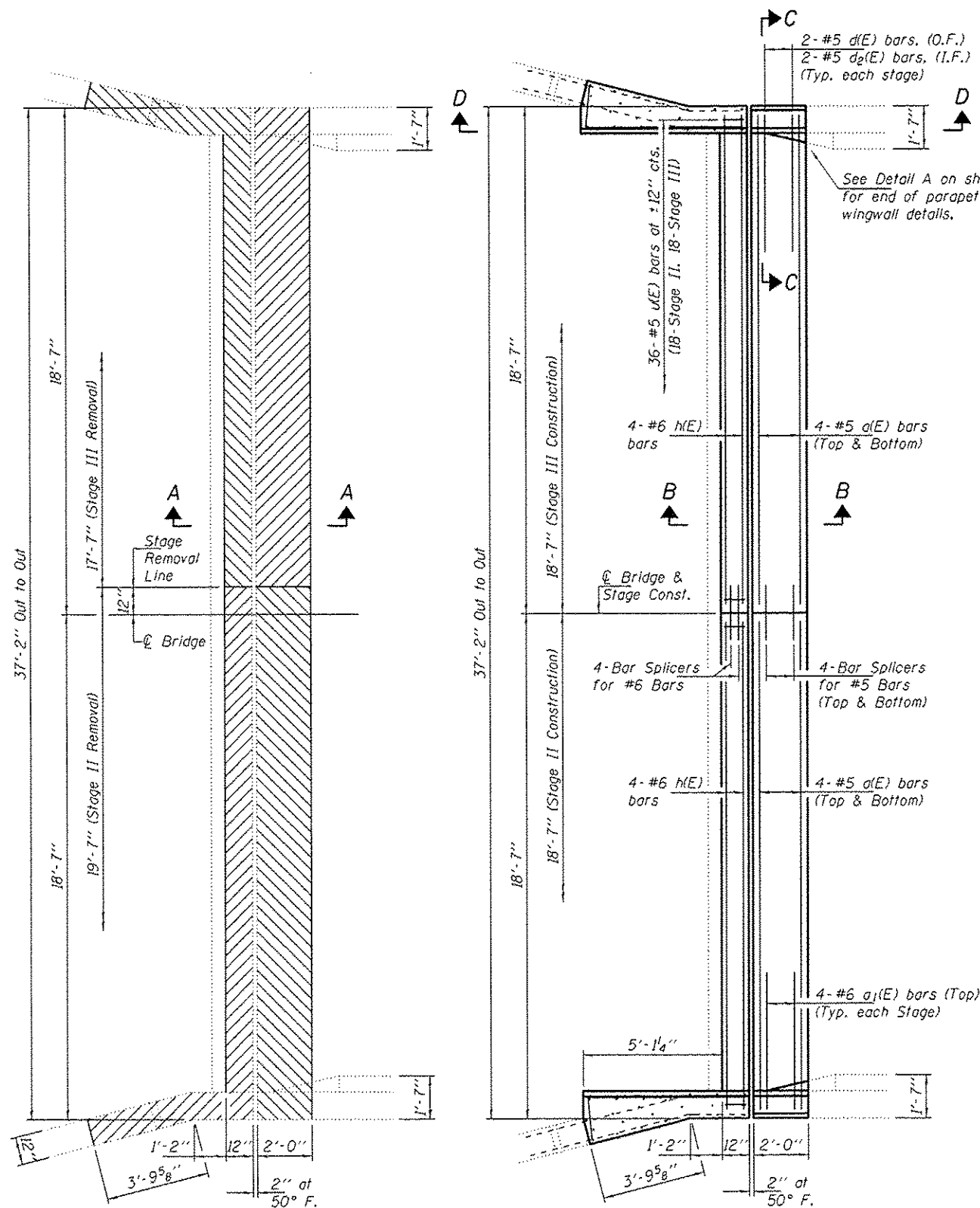
ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	20.2
Concrete Superstructure	Cu. Yd.	20.2
Preformed Joint Strip Seal	Foot	144
Reinforcement Bars, Epoxy Coated	Pound	2740
Bar Splicers	Each	48
Bridge Deck Concrete Sealer	Sq. Ft.	15,120
Stone Riprap Class A5	Sq. Yd.	780
Filter Fabric	Sq. Yd.	780
Jack and Remove Existing Bearings	Each	24
Elastomeric Bearing Assembly, Type I	Each	12
Elastomeric Bearing Assembly, Type II	Each	12
Furnishing and Erecting Structural Steel	Pound	3170
Anchor Bolts, 1"Ø	Each	48
Cleaning and Painting Steel Bridge No. 1	L.S.	1
Cleaning and Painting Steel Bridge No. 2	L.S.	1
Containment and Disposal of Lead Paint Cleaning Residuals, Bridge No. 1	L.S.	1
Containment and Disposal of Lead Paint Cleaning Residuals, Bridge No. 2	L.S.	1
Channel Excavation	Cu. Yd.	272.7



SECTION THRU PARAPET



Expires: November 30, 2014

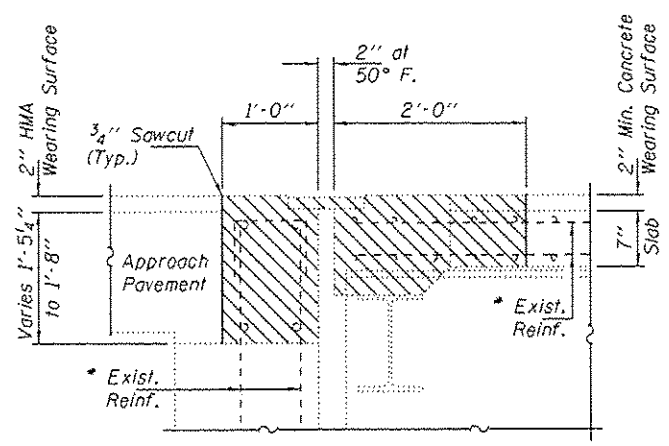


REMOVAL PLAN (SN 060-0025 E.B.)

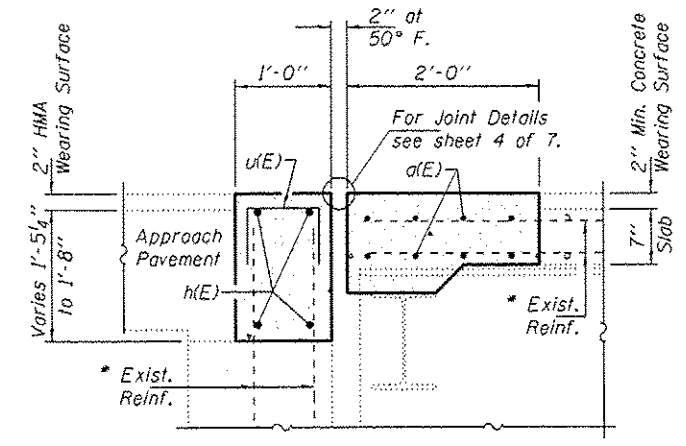
West Abutment shown, East Abutment similar by rotation.

REPLACEMENT PLAN (SN 060-0025 E.B.)

West Abutment shown, East Abutment similar by rotation.



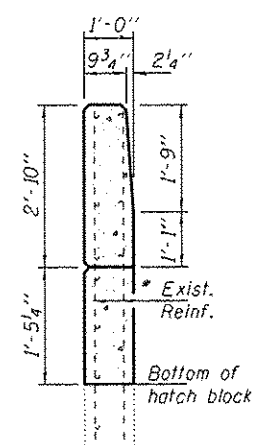
SECTION A-A



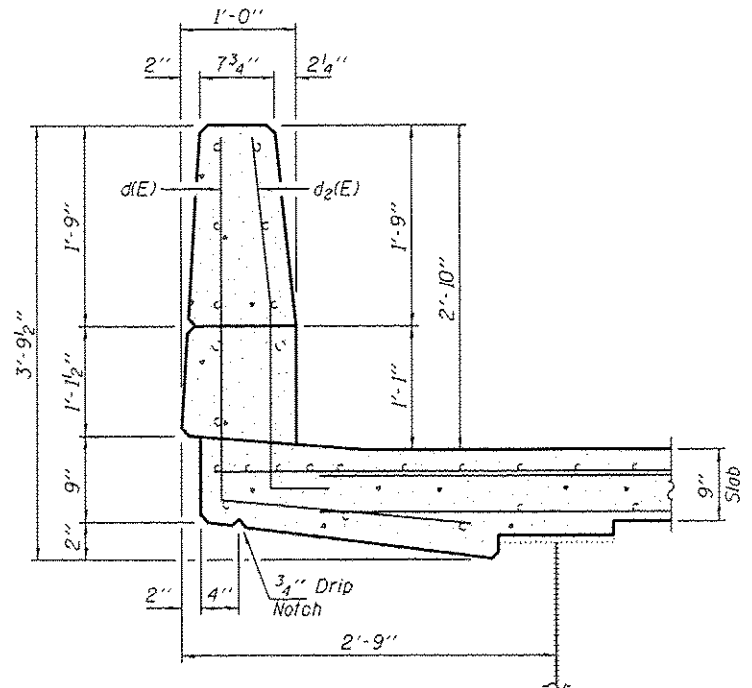
SECTION B-B

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

Notes:
Hatched areas indicate Concrete Removal.
For Section D-D & Detail A see sheet 3 of 7.



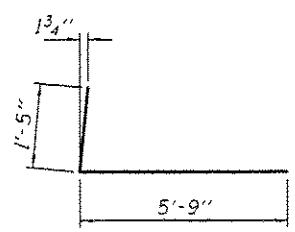
TYPICAL SECTION AT APPROACH PARAPET



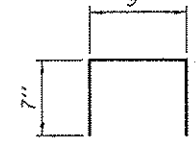
SECTION C-C

BILL OF MATERIAL

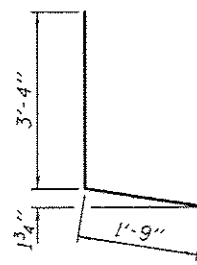
Bar	No.	Size	Length	Shape
d(E)	32	#5	18'-3"	—
a1(E)	16	#6	4'-0"	—
d(E)	8	#5	5'-1"	L
d2(E)	8	#5	4'-4"	L
h(E)	16	#6	18'-3"	—
h1(E)	20	#5	7'-2"	L
u(E)	72	#5	1'-11"	□
v(E)	24	#5	4'-10"	—
v1(E)	16	#5	3'-10"	—
Concrete Removal			Cu. Yd.	10.1
Concrete Superstructure			Cu. Yd.	10.1
Bar Splicers			Each	24
Reinforcement Bars, Epoxy Coated			Pound	1370



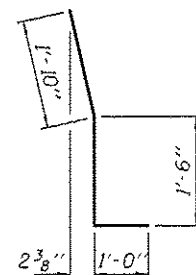
BAR h1(E)



BAR u(E)



BAR d(E)



BAR d2(E)

DESIGNED - GGE
CHECKED - TLC
DRAWN - Kyle M. Steffan
CHECKED - GGE TLC

EXAMINED
PASSED
ACTING ENGINEER OF STRUCTURAL SERVICES
ACTING ENGINEER OF BRIDGES AND STRUCTURES

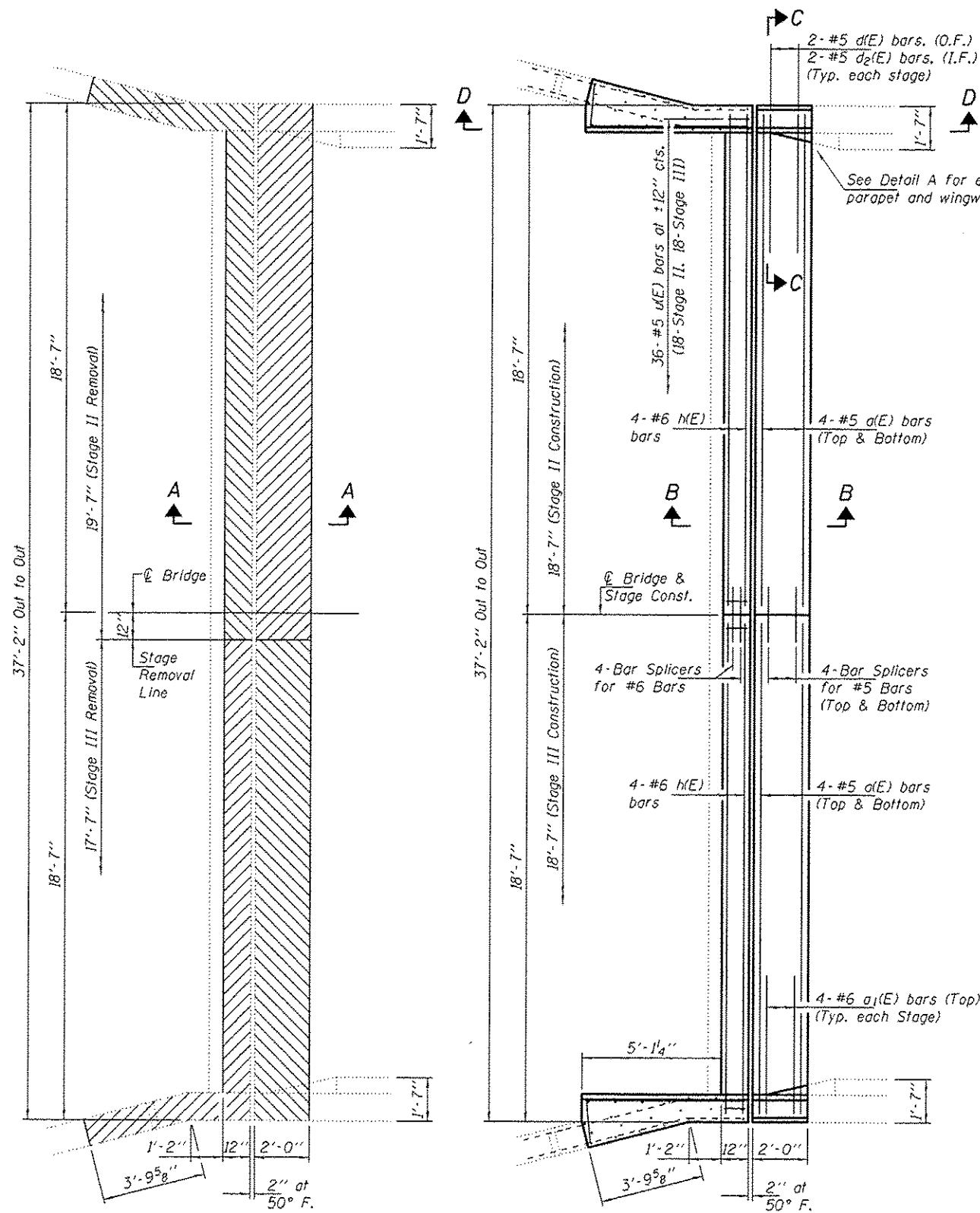
DATE - AUGUST 18, 2014

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXPANSION JOINT REMOVAL & REPLACEMENT DETAILS
SN 060-0025 (EB)

SHEET NO. 2 OF 7 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-111.12/RS-3	MADISON	242	179
				CONTRACT NO. 76F13
ILLINOIS FED. AID PROJECT				

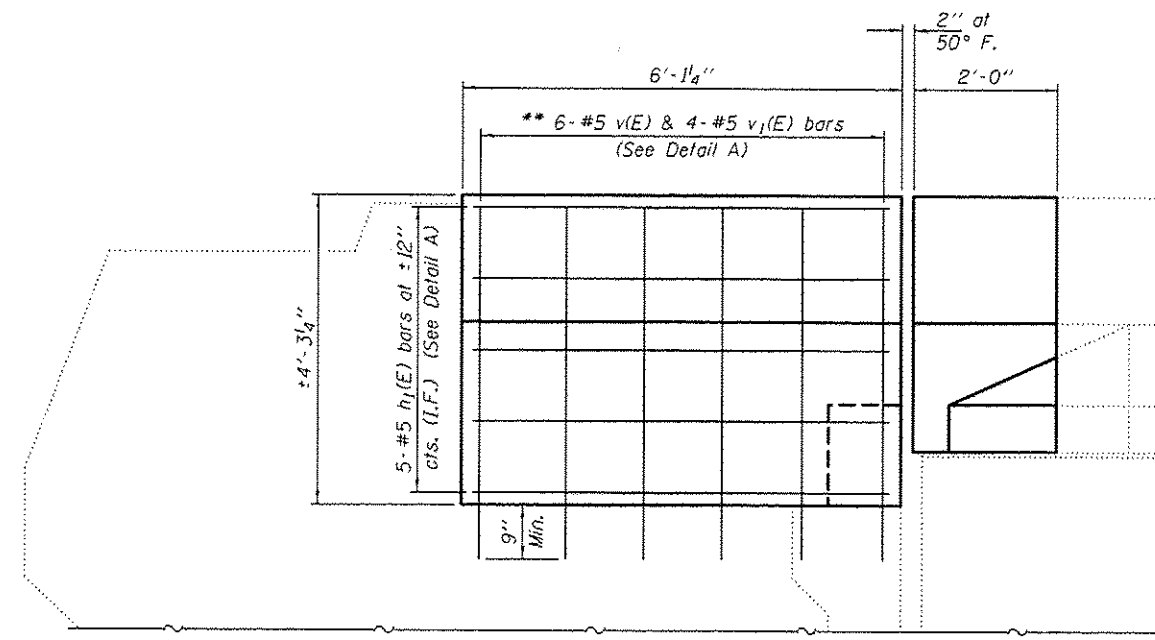


REMOVAL PLAN (SN 060-0026 W.B.)

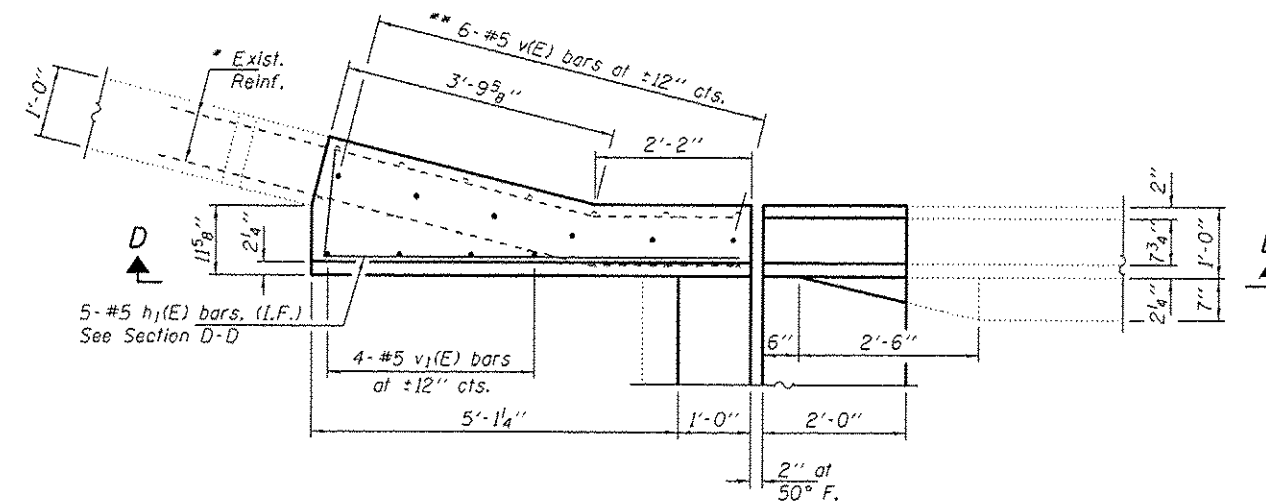
West Abutment shown, East Abutment similar by rotation.

REPLACEMENT PLAN (SN 060-0026 W.B.)

West Abutment shown, East Abutment similar by rotation.



SECTION D-D
Parapet, Deck & Hatchblock reinforcement not shown for clarity.



DETAIL A
Parapet, Deck & Hatchblock reinforcement not shown for clarity.

Notes:
Hatched areas indicate Concrete Removal.
For Sections A-A, B-B, C-C and Reinforcement Bar Details see sheet 2 of 7.

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

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

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	32	#5	18'-3"	—
a1(E)	16	#6	4'-0"	—
d(E)	8	#5	5'-1"	L
d2(E)	8	#5	4'-4"	L
h(E)	16	#6	18'-3"	—
h1(E)	20	#5	7'-2"	L
u(E)	72	#5	1'-11"	□
v(E)	24	#5	4'-10"	—
v1(E)	16	#5	3'-10"	—
Concrete Removal			Cu. Yd.	10.1
Concrete Superstructure			Cu. Yd.	10.1
Bar Splicers			Each	24
Reinforcement Bars, Epoxy Coated			Pound	1370

DESIGNED - GGE
CHECKED - TLC
DRAWN - Kyle M. Staffan
CHECKED - GGE TLC

EXAMINED
ACTING ENGINEER OF STRUCTURAL SERVICES
PASSED
ACTING ENGINEER OF BRIDGES AND STRUCTURES

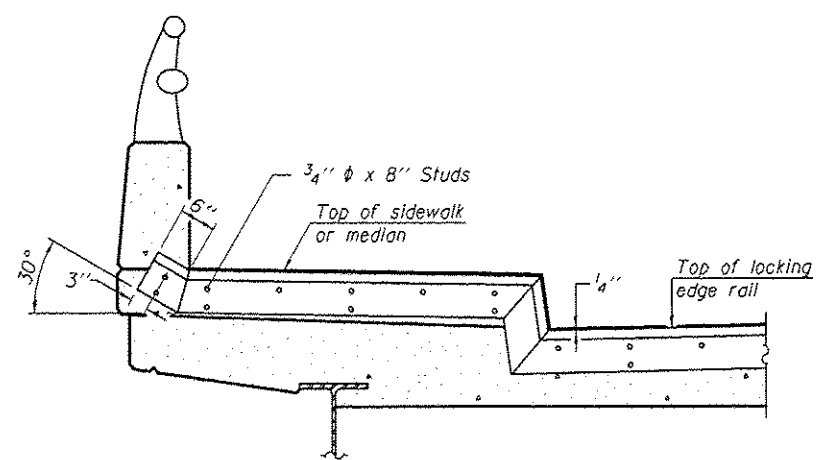
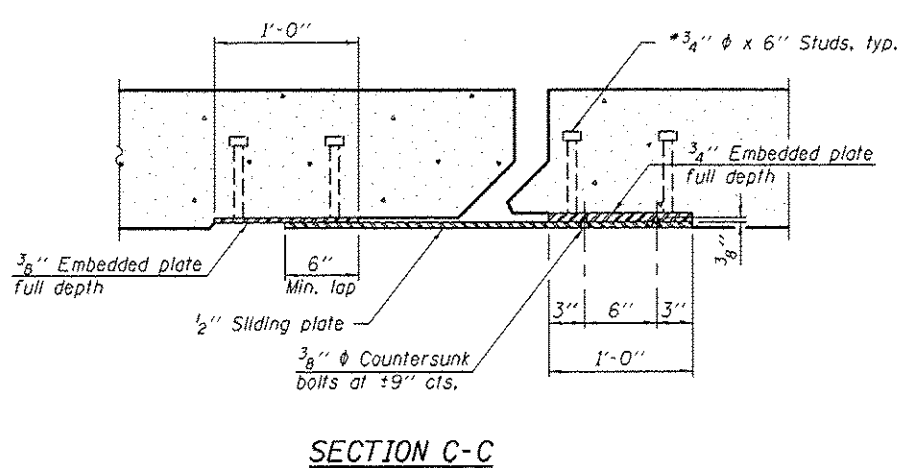
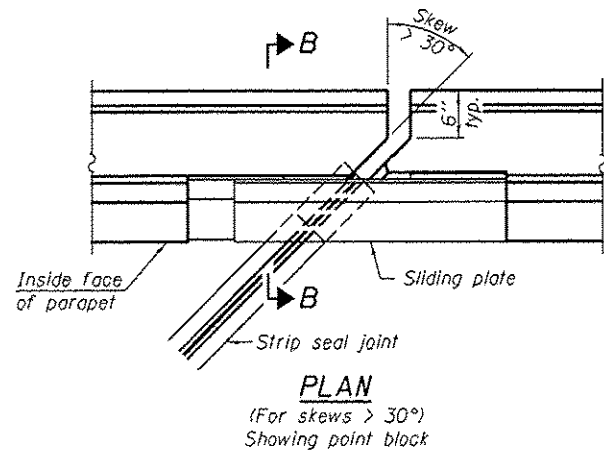
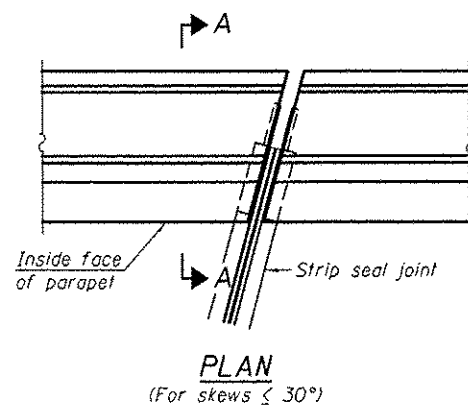
DATE - AUGUST 18, 2014

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXPANSION JOINT REMOVAL & REPLACEMENT DETAILS
SN 060-0026 (WB)

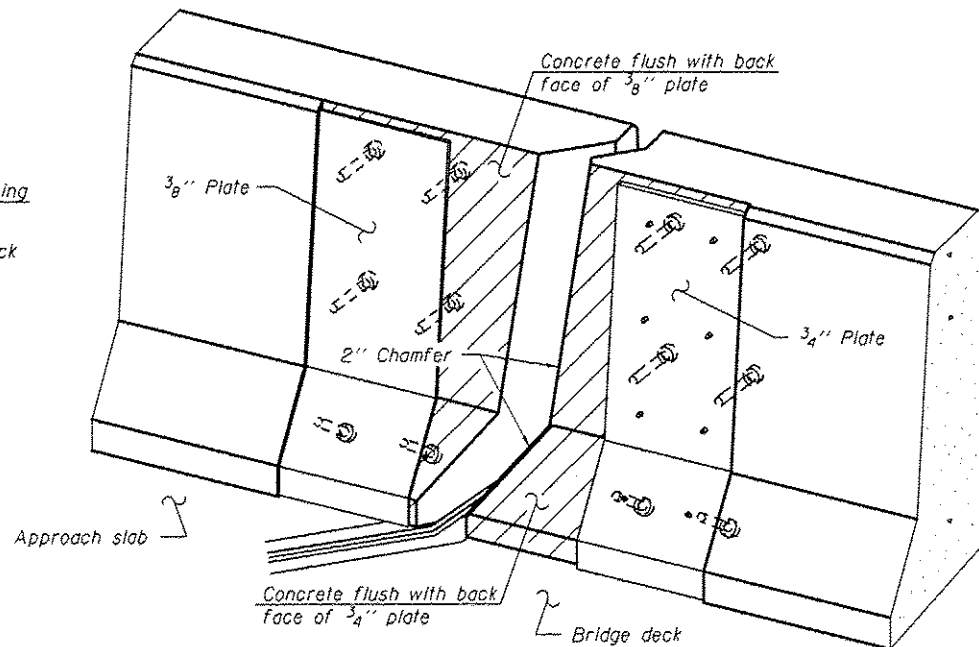
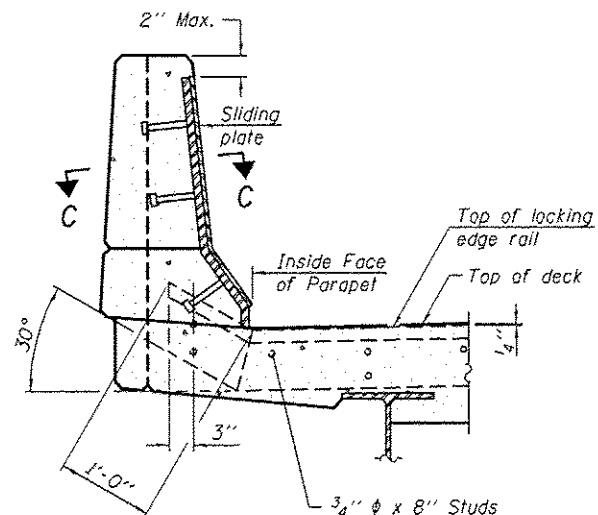
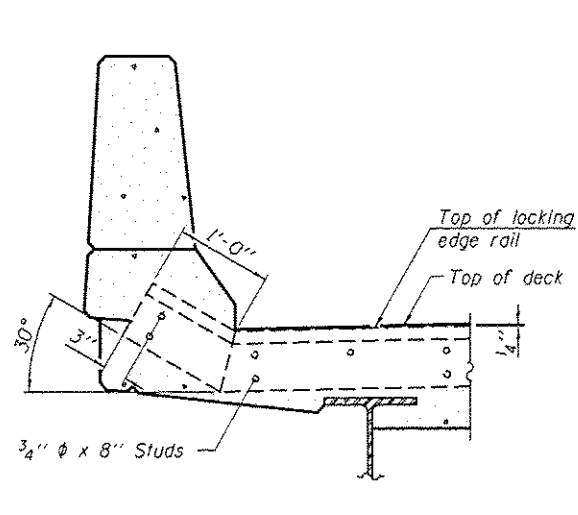
SHEET NO. 3 OF 7 SHEETS

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-111.121RS-3	MADISON	242	180
CONTRACT NO. 76F13			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.

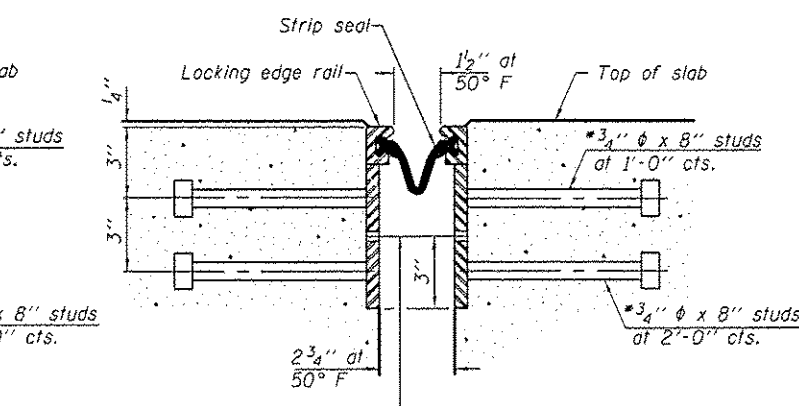
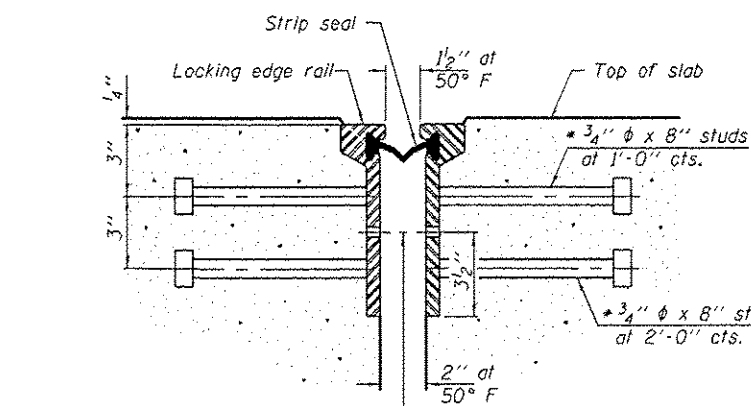
The manufacturer's recommended installation methods shall be followed.

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 shall be 3/16", sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.

Parapet plates and anchorage studs for skews > 30 degrees included in the cost of Preformed Joint Strip Seal.



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.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	144

EJ-SSJ

1-27-12

DESIGNED - GGE
CHECKED - TLC
DRAWN - Kyle M. Staffan
CHECKED - GGE TLC

EXAMINED
PASSED
ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - AUGUST 18, 2014

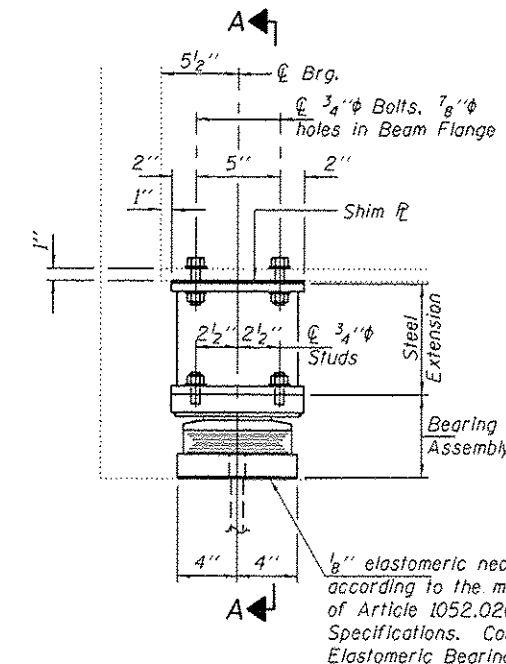
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
SN 060-0025 (EB) & 0026 (WB)

SHEET NO. 4 OF 7 SHEETS

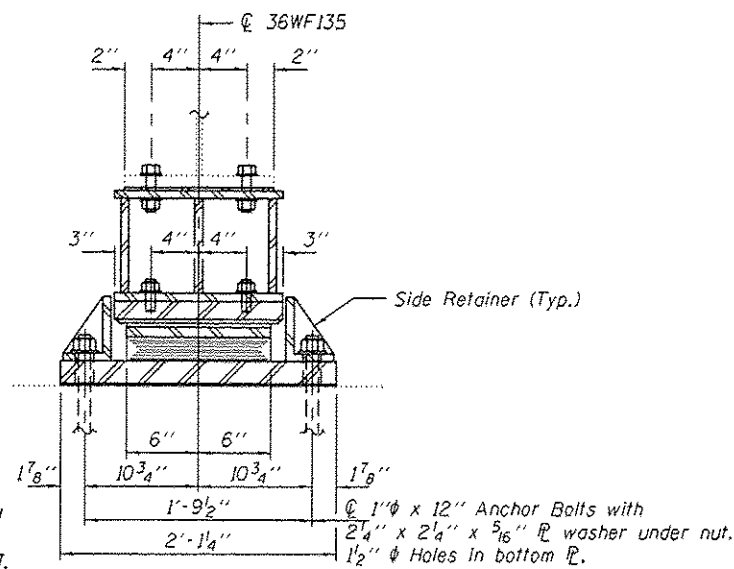
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11)12/RS-3	MADISON	242	181
				CONTRACT NO. 76F13

ILLINOIS FED. AID PROJECT



ELEVATION AT EAST ABUTMENT

TYPE II TFE ELASTOMERIC EXP. BRG.

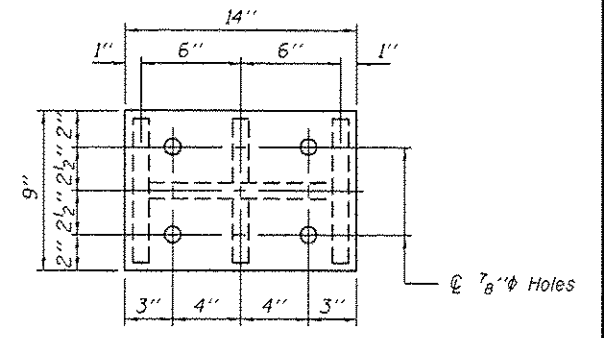


SECTION A-A

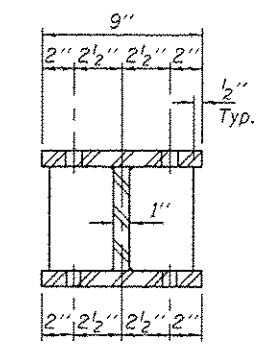
BEAM REACTIONS

RP	(K)	22.5
Rt	(K)	33.3
Imp.	(K)	9.0
R (Total)	(K)	64.8

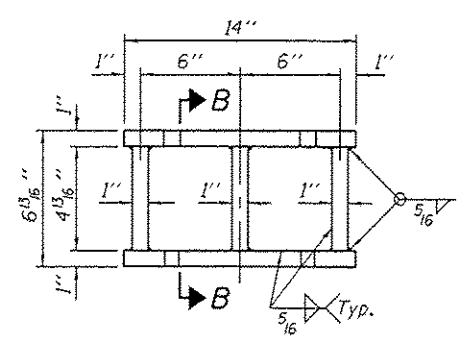
Notes:
 Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.
 New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel.
 Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Min. jack capacity = 40 Tons.
 Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
 Anchor bolts for Type II bearings shall be placed in holes drilled through the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed.
 Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
 Side retainers shall be included in the cost of Elastomeric Bearing Assembly, Type II.
 The 1/8" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.
 Bonding of 1/8" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.



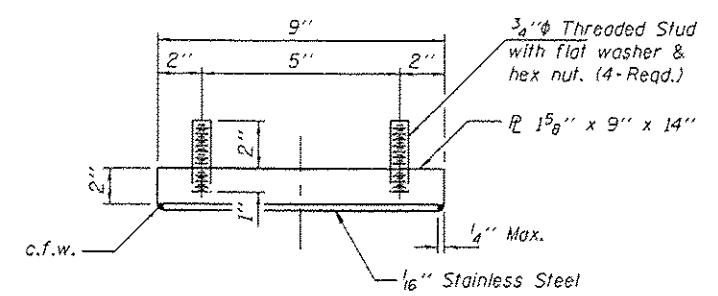
PLAN TOP AND BOTTOM PLATE



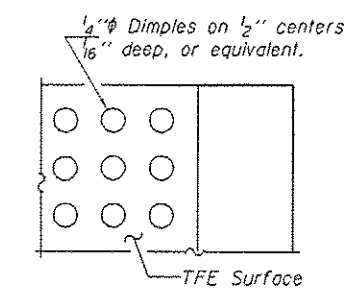
SECTION B-B



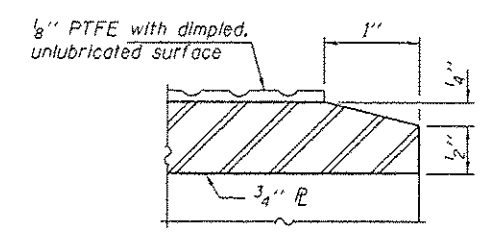
STEEL EXTENSION DETAIL



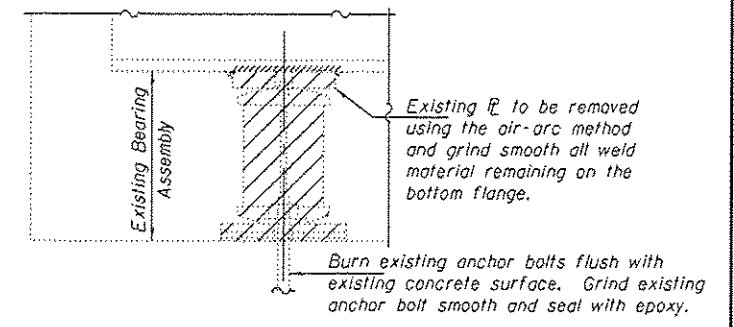
TOP BEARING ASSEMBLY



PLAN-PTFE SURFACE

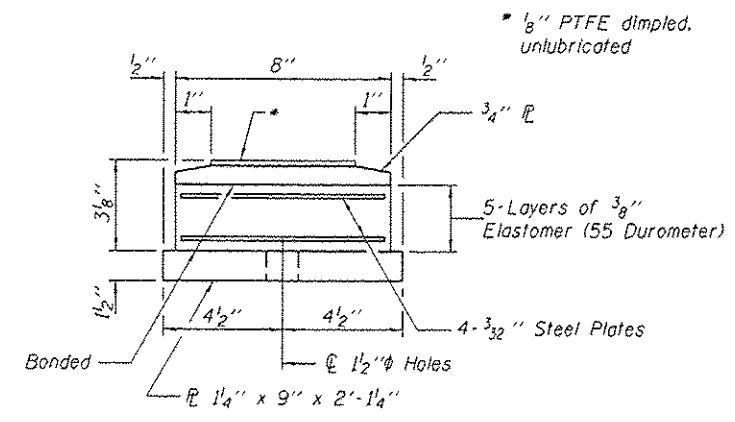


SECTION THRU PTFE

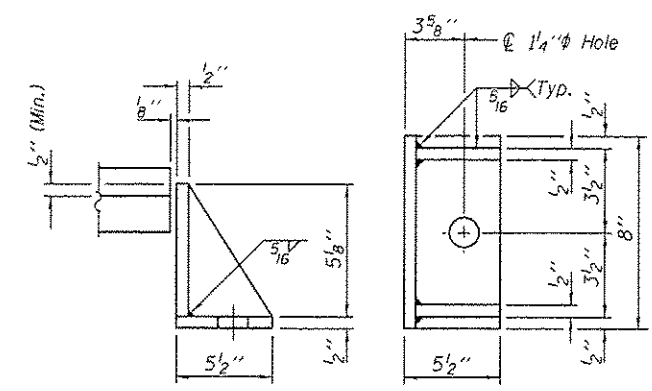


EXISTING BEARING REMOVAL DETAIL

Cost included with Jack and Remove Existing Bearings.

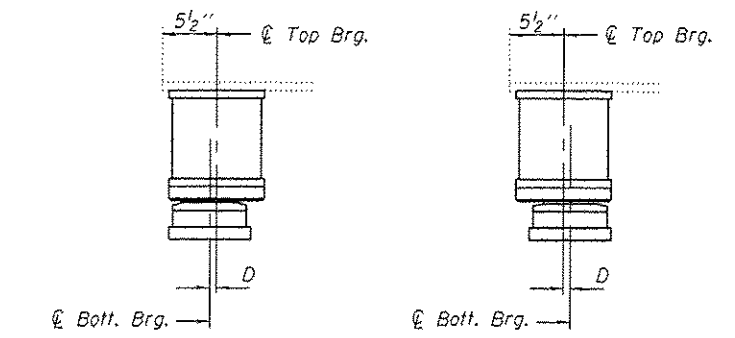


BOTTOM BEARING ASSEMBLY



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



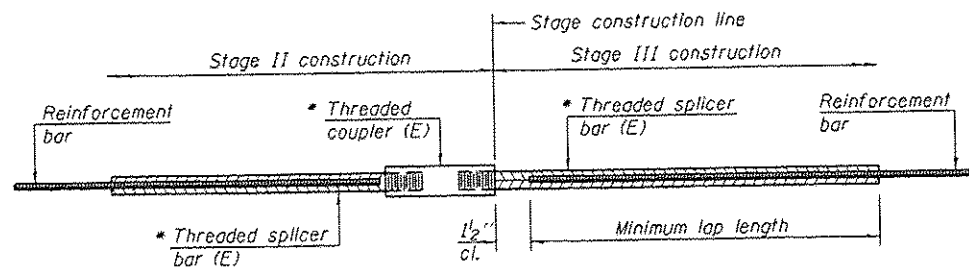
SETTING ANCHOR BOLTS AT EXP. BRG.

BELOW 50° F. (Move bott. brg. away from fixed brg.)
 ABOVE 50° F. (Move bott. brg. toward fixed brg.)
 D = 1/8" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type II	Each	12
Jack and Remove Existing Bearings	Each	12
Furnishing and Erecting Structural Steel	Pound	1520
Anchor Bolts 1"φ	Each	24

TYII/REPS 12-03-2008



STANDARD BAR SPLICER ASSEMBLY

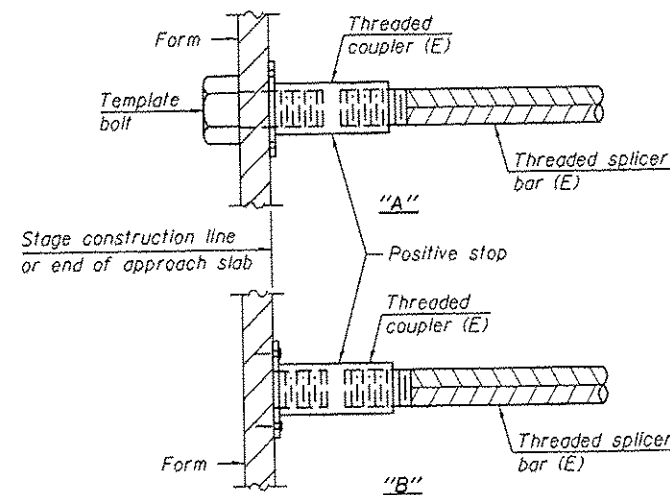
Bar size to be spliced	Minimum Lap Lengths					
	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"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

- 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
- Table 5: Epoxy bar, Class C
- Table 6: Epoxy bar, Top bar top, Class C

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

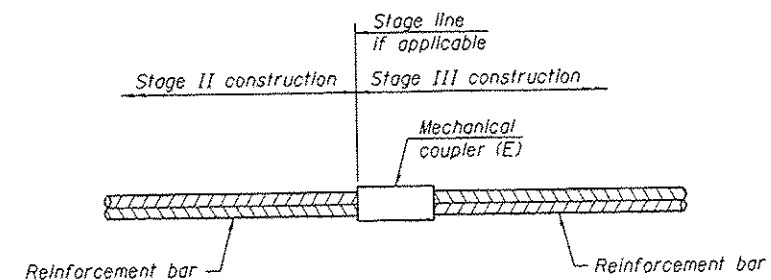
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Deck	#5	32	5
Approach	#6	16	5



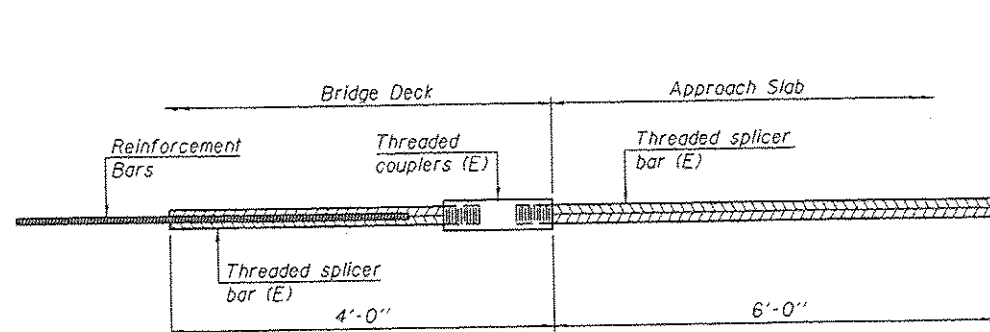
INSTALLATION AND SETTING METHODS

"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.



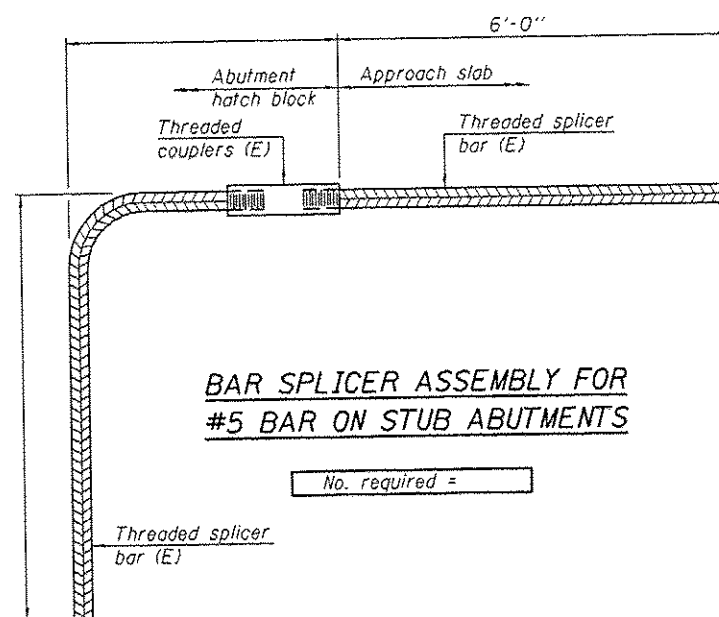
STANDARD MECHANICAL SPLICER

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

BSD-1

1-27-12

DESIGNED - GGE
 CHECKED - TLC
 DRAWN - Kyle M. Stoffen
 CHECKED - GGE TLC

EXAMINED
 PASSED
 ACTING ENGINEER OF STRUCTURAL SERVICES
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

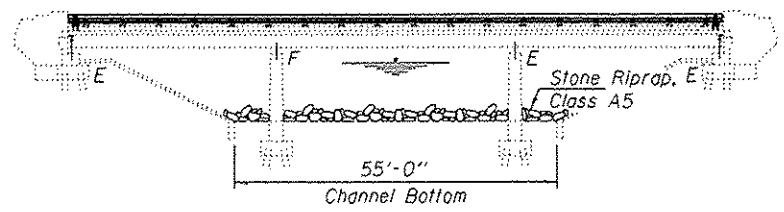
DATE - AUGUST 18, 2014

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

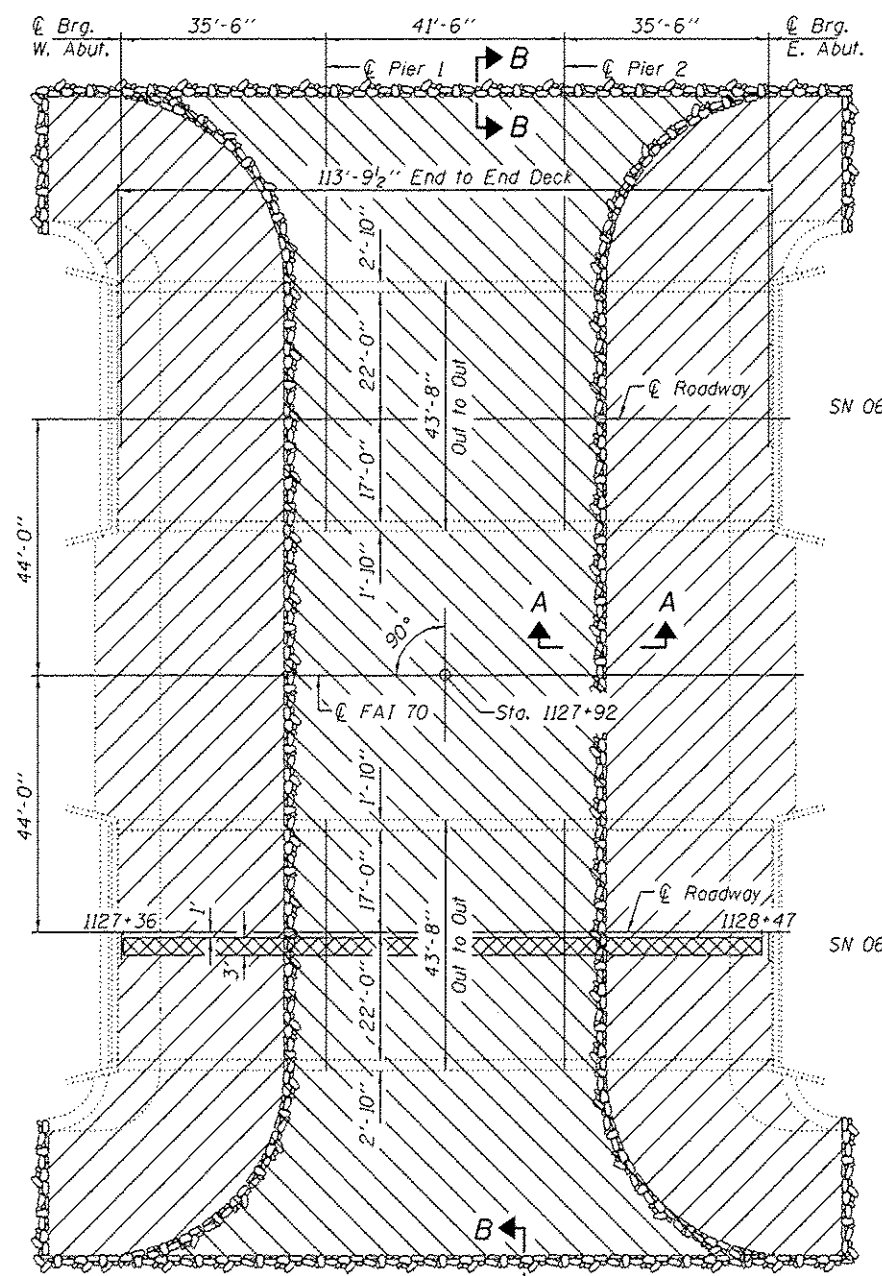
BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 SN 060-0025 (EB) & 0026 (WB)

SHEET NO. 7 OF 7 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(11.12)RS-3	MADISON	242	184
CONTRACT NO. 76F13			ILLINOIS FED. AID PROJECT	



ELEVATION



PLAN

Cross hatched areas indicate Deck Slab Repair (Partial)

GENERAL NOTES

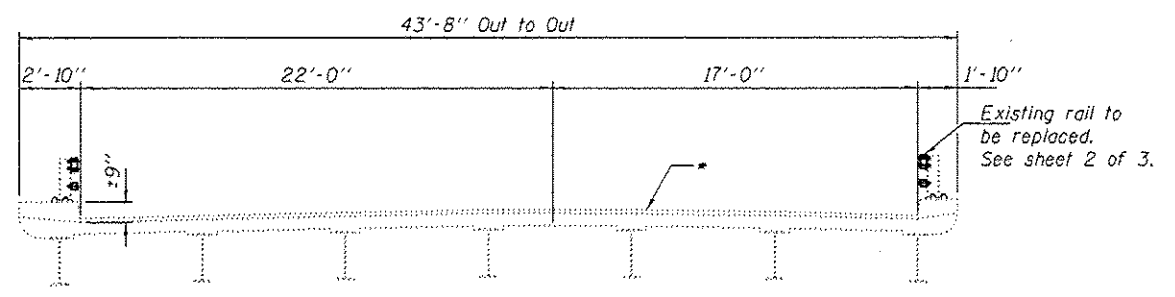
All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

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.

Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". All beams, bearings and other structural steel within 5 ft. (measured along beam) of either side of deck joints shall be cleaned per Near White Blast Cleaning - SSPC-SP10. The exterior surfaces and bottom of the bottom flange of the fascia beams shall be cleaned per Commercial Grade Power Tool Cleaning - SSPC-SP15. The designated areas cleaned per Near White Blast Cleaning and per Commercial Grade Power Tool Cleaning shall be painted according to the requirements of Paint System 1 - OZ/E/U. The color of the final finish coat for all interior and exterior steel surfaces shall be Interstate Green, Munsell No. 7.5G 4/8.

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

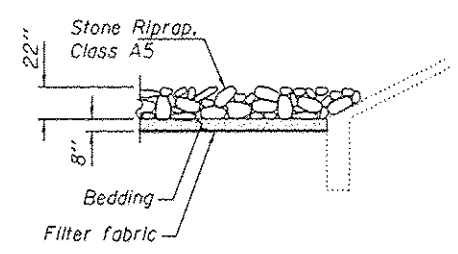


CROSS SECTION

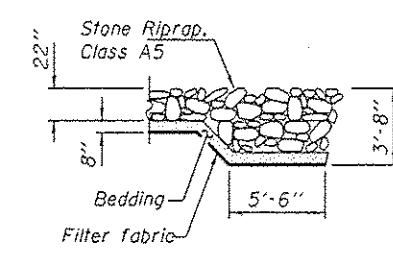
060-0027, Looking West
060-0028, Looking East

* Apply Bridge Deck Concrete Sealer to the deck surface and the face & top of the curbs

- Stone Riprap, Filter Fabric & Bedding
- Slope Wall Breaking and Riprap



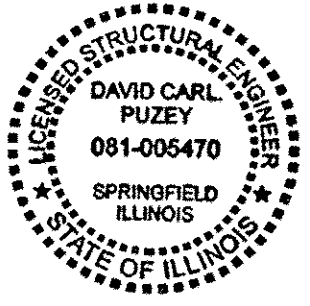
SECTION A-A



SECTION B-B

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Bridge Deck Concrete Sealer	Sq. Ft.	10280
Deck Slab Repair (Partial)	Sq. Yd.	37.0
Cleaning and Painting Steel Bridge No. 3	L.S.	1
Cleaning and Painting Steel Bridge No. 4	L.S.	1
Containment and Disposal of Lead Paint Cleaning Residuals, Bridge No. 3	L.S.	1
Containment and Disposal of Lead Paint Cleaning Residuals, Bridge No. 4	L.S.	1
Stone Riprap, Class A5	Sq. Yd.	3052
Filter Fabric	Sq. Yd.	1232
Slope Wall Breaking	Sq. Yd.	1820
Bridge Rail Removal	Foot	462
Steel Railing, Type 2399.	Foot	462



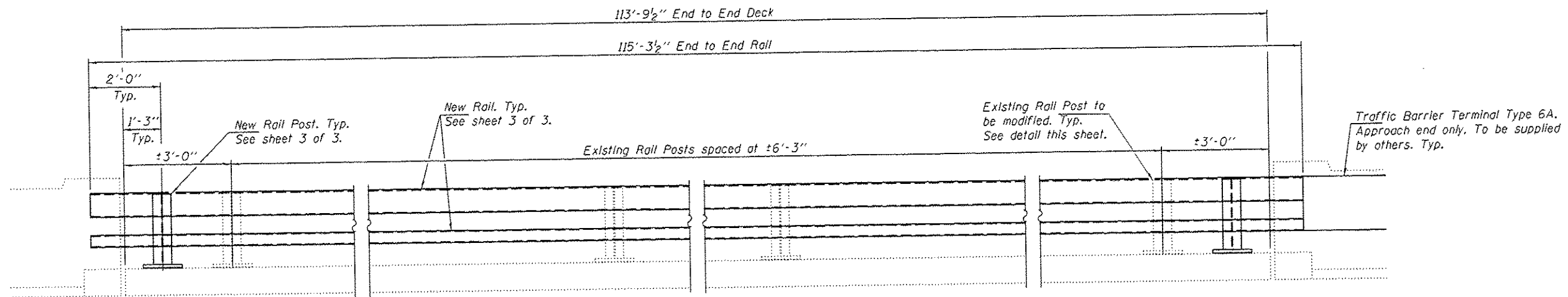
DESIGNED	EXAMINED	DATE
CHECKED	PASSED	AUGUST 18, 2014
DRAWN	REVISIONS	
CHECKED	REVISIONS	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION
FAI 70 OVER MINIER SLOUGH
SN 060-0027(EB) & 0028(WB)

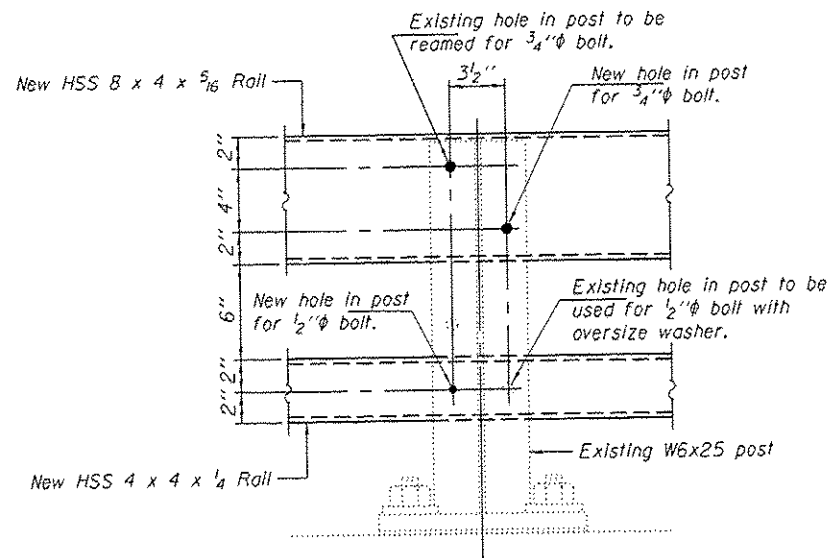
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10	60-111,127R5-3	MADISON	242	185
CONTRACT NO. 76F13			ILLINOIS FED. AID PROJECT	

SHEET NO. 1 OF 3 SHEETS



RAIL MODIFICATION DETAIL

Notes:
 Existing top and bottom rail elements to be removed.
 One new rail post to be installed at each corner of the bridge.
 New top and bottom rail elements to be attached.



**EXISTING RAIL POST
 MODIFICATION DETAIL**

BILL OF MATERIAL

Item	Unit	Quantity
Bridge Rail Removal	Foot	462

DESIGNED GGE	EXAMINED <i>Timothy A. Andert</i>	DATE AUGUST 18, 2014
CHECKED SMR	ACTING ENGINEER OF STRUCTURAL SERVICES	
DRAWN baliva	PASSED <i>Carl...</i>	REVISED
CHECKED GGE SMR	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED

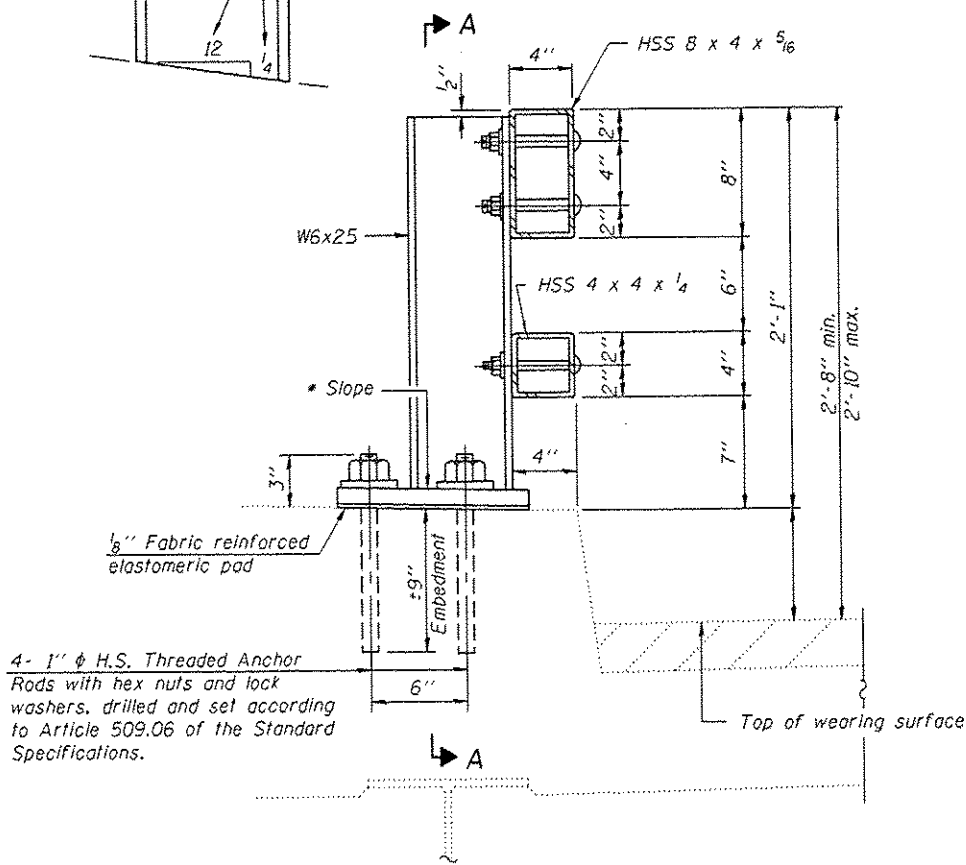
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

RAIL MODIFICATION DETAILS
 SN 060-0027 (EB) & 0028 (WB)

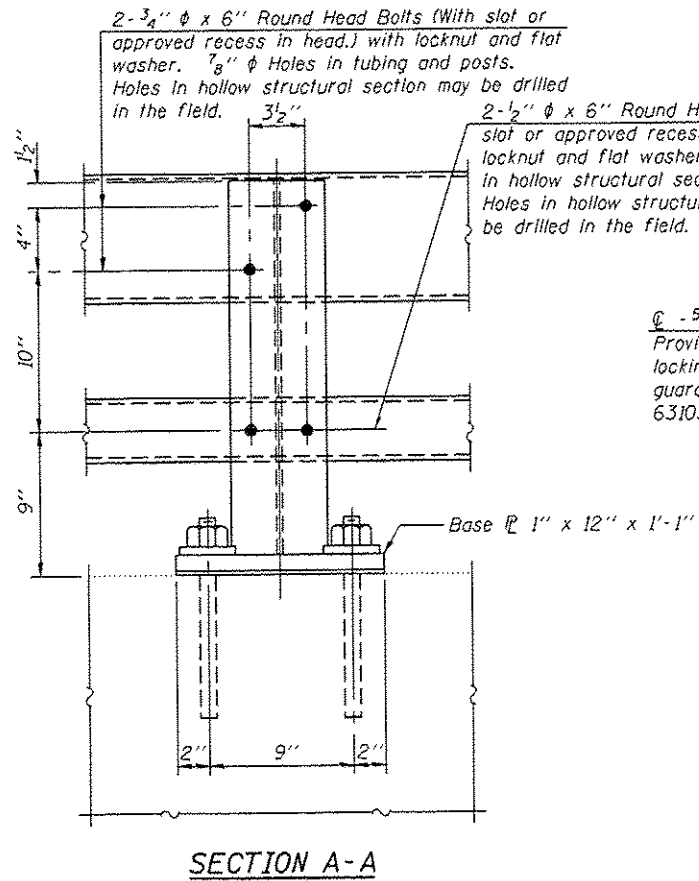
SHEET NO. 2 OF 3 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TO	60-111.121RS-3	MADISON	242	186
CONTRACT NO. 76F13			ILLINOIS FED. AID PROJECT	

* Cut bottom end of post to curb slope.

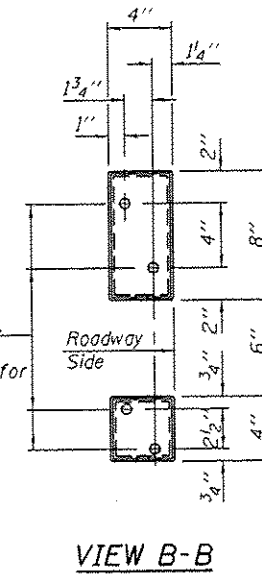


SECTION AT RAIL POST

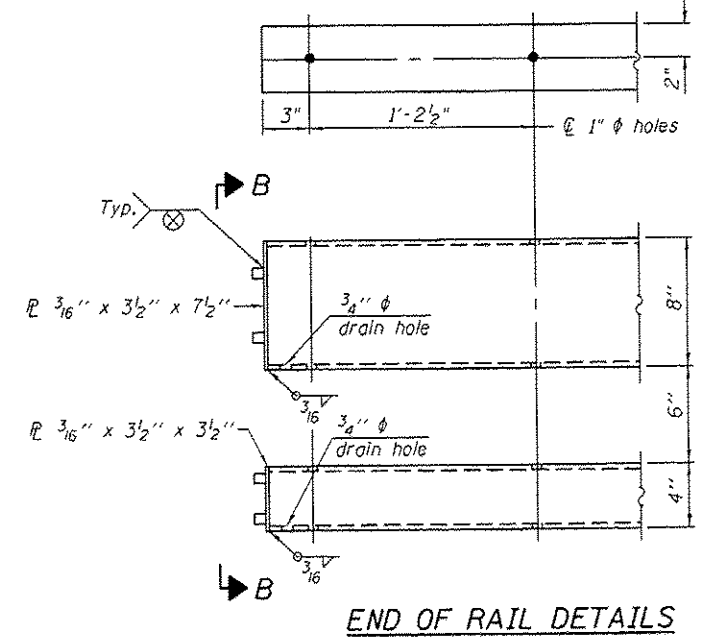


SECTION A-A

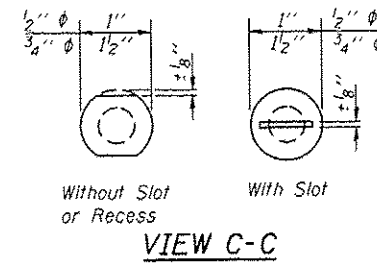
2- 5/8" reduced base welded studs. Provide 4 - 5/8" washers and self-locking nuts or nuts and jam nuts for guardrail connection shown on Std. 631032.



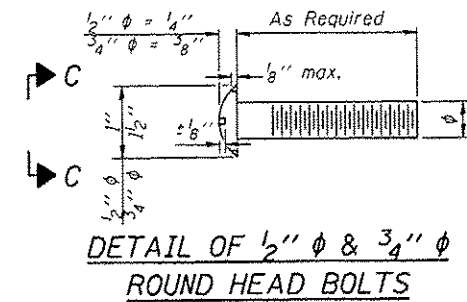
VIEW B-B



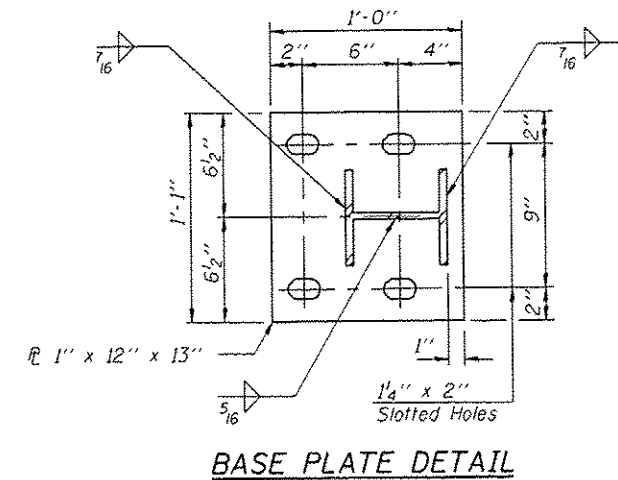
END OF RAIL DETAILS



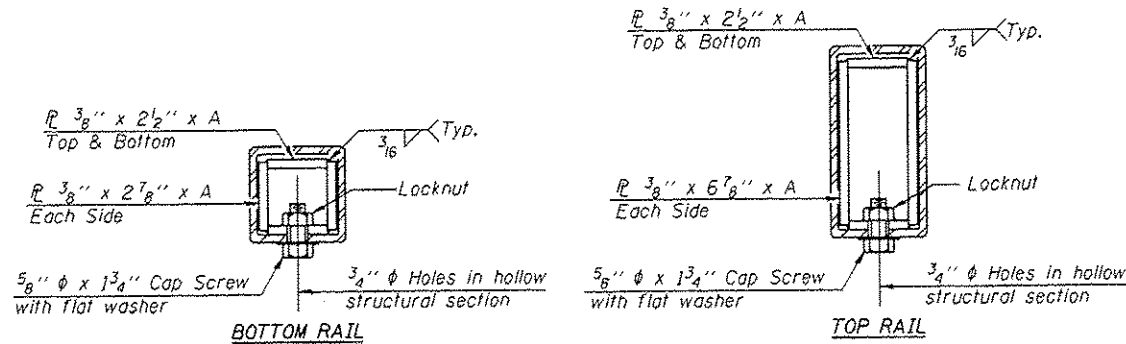
VIEW C-C



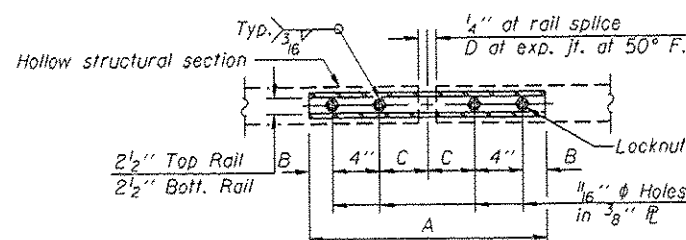
DETAIL OF 1/2" & 3/4" ROUND HEAD BOLTS



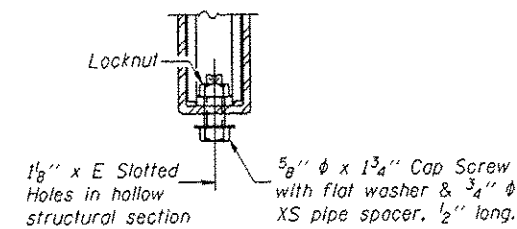
BASE PLATE DETAIL



SECTIONS AT RAIL SPLICE



PLAN-BOTT. SPLICE R TYPICAL



RAIL SPLICE CONNECTION AT EXPANSION JT.

Notes:
 All field drilled holes shall be coated with an approved zinc rich paint before erection.
 Posts shall not be located closer than 1'-3" to an existing bridge expansion joint or end of bridge.
 Steel Bridge Rail expansion joint shall be provided between any two (2) posts which span a bridge expansion joint. Bolts located at expansion joint shall be provided with locknuts and shall be tightened only to a point that will allow railing movement.
 Provide one 1/8" and two 1/16" steel shims for 25% of the posts. Shims shall be similar to base plates in size and holes.
 All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

SPLICE DIMENSIONS

T	D	A	B	C	E
≤4"	2 1/2"	1'-8"	2"	4"	2 1/2"
>4" ≤6 1/2"	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
>6 1/2" ≤9"	5"	2'-4"	3 1/2"	6 1/2"	9"
>9" ≤13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	1/4"	1'-8"	2"	4"	—

T = Total movement at expansion joint as shown on the design plans.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type 2399	Foot	462

R-31 7-1-10 (6'-3" Maximum Post Spacing)

DESIGNED GGE
 CHECKED SMR
 DRAWN balva
 CHECKED GGE SMR

EXAMINED
 PASSED
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE AUGUST 18, 2014
 REVISIONS

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

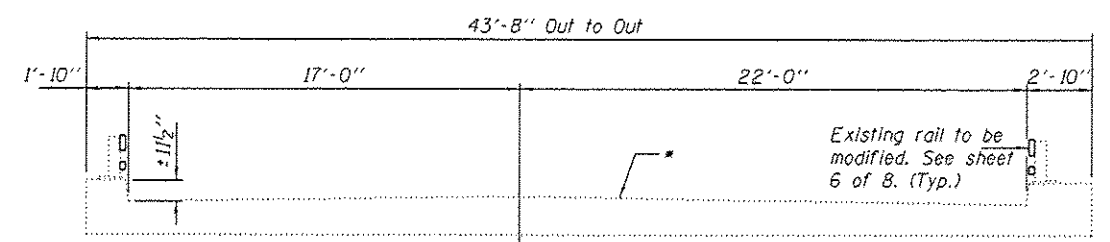
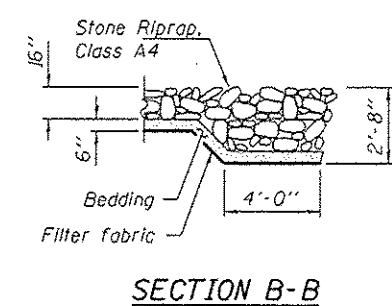
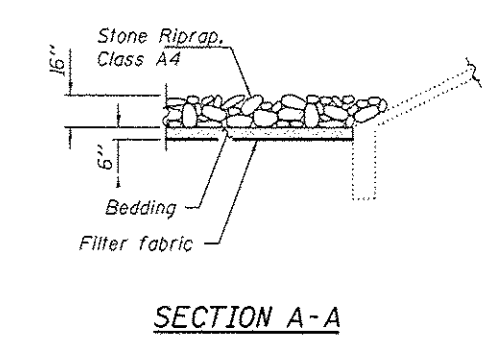
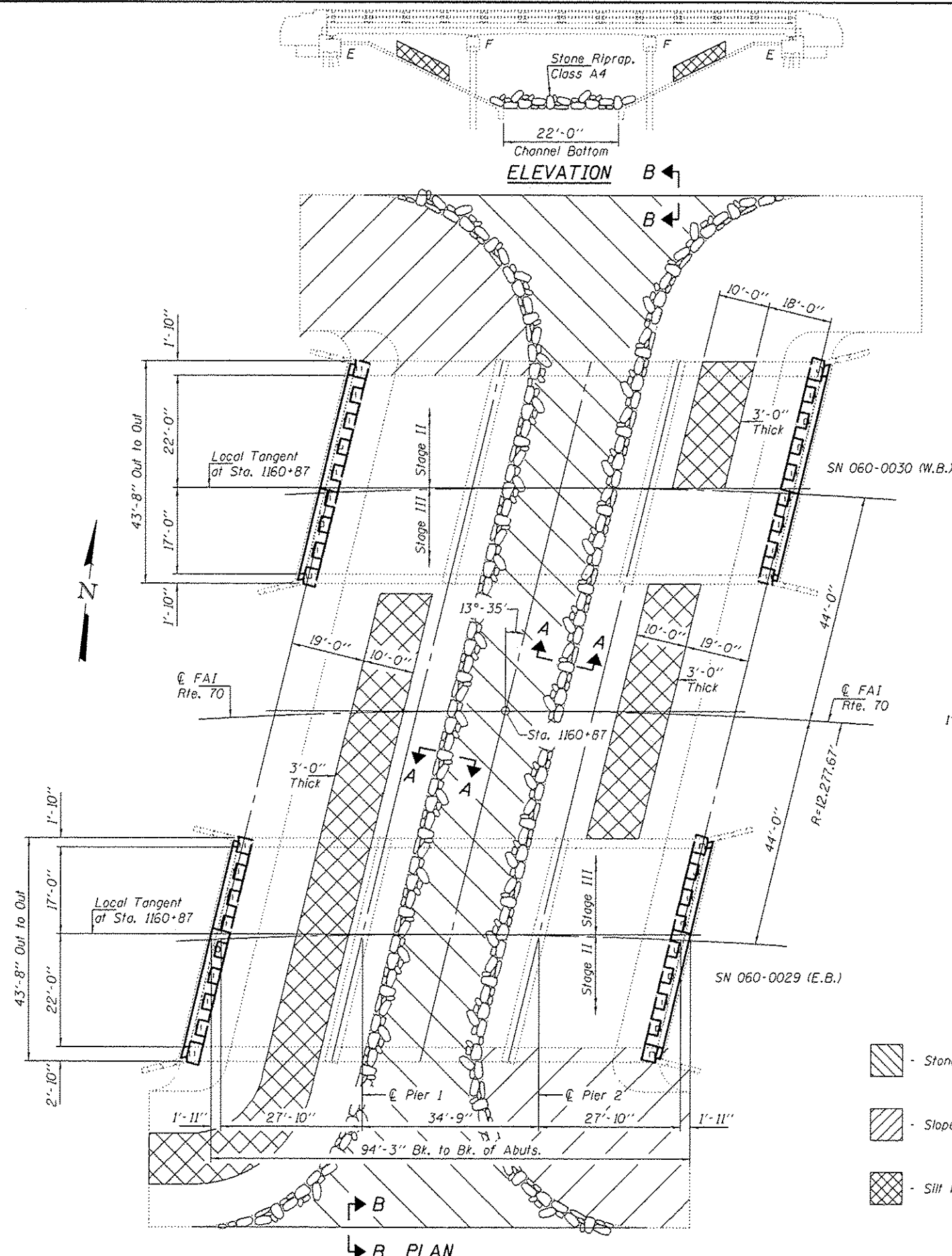
STEEL RAILING, TYPE 2399
 SN 060-0027 (EB) & 0028 (WB)

SHEET NO. 3 OF 3 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TO	60-111,12/R5-3	MADISON	242	187
ILLINOIS FED. AID PROJECT			CONTRACT NO. T6F13	

GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.
 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 shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.
 The new deck surface shall have its final finish tined according to Article 420.09(e)(1) of the Standard Specifications. Cost included with Concrete Superstructure.



CROSS SECTION
 060-0029, Looking East
 060-0030, Looking West

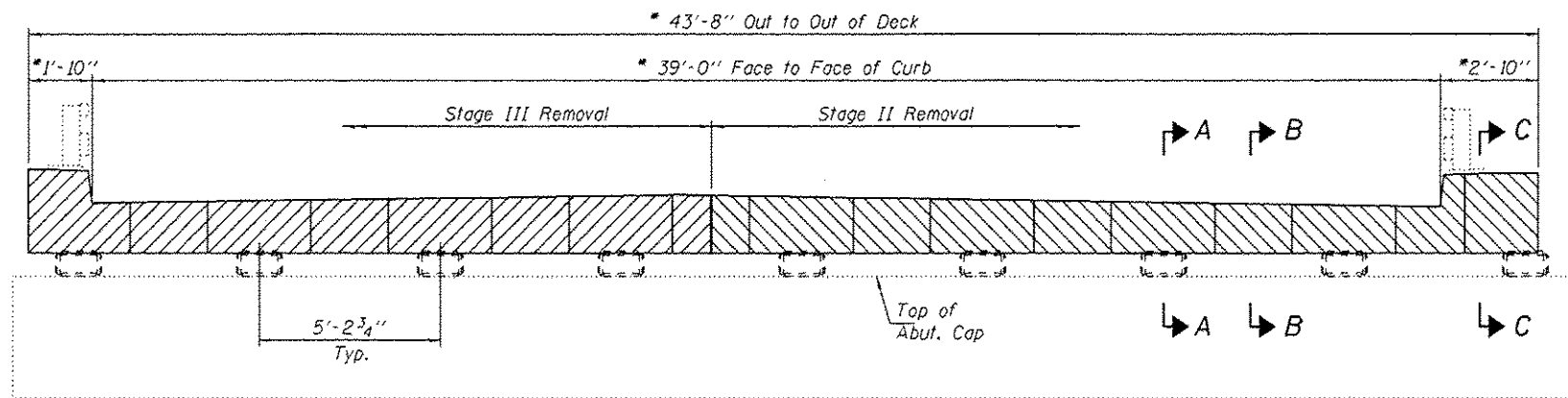
* Apply Bridge Deck Concrete Sealer to the deck surface and the face & top of the curbs

- Stone Riprap, Filter Fabric & Bedding
- Slope wall Break-up & Riprap
- Silt Removal

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	21.0
Concrete Superstructure	Cu. Yd.	35.2
Reinforcement Bars, Epoxy Coated	Pound	2470
Bar Splicers	Each	24
Bridge Deck Concrete Sealer	Sq. Ft.	8310
Stone Riprap, Class A4	Sq. Yd.	514
Bridge Rail Removal	Foot	375
Filter Fabric	Sq. Yd.	420
Channel Excavation	Cu. Yd.	147.4
Steel Railing, Type 2399	Cu. Yd.	375

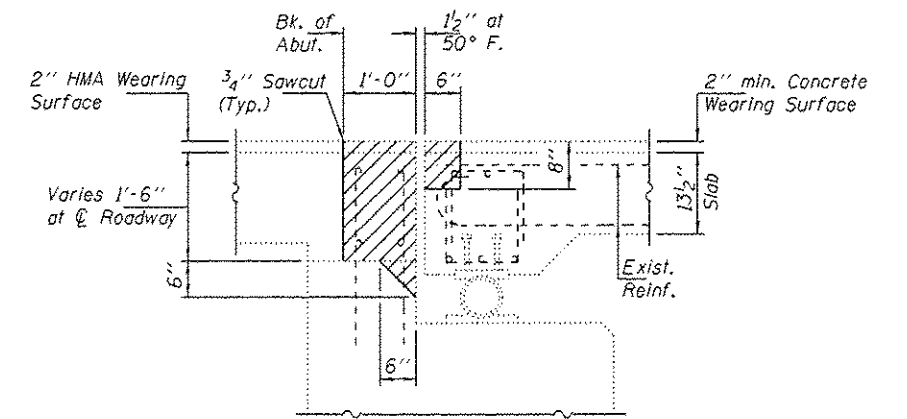




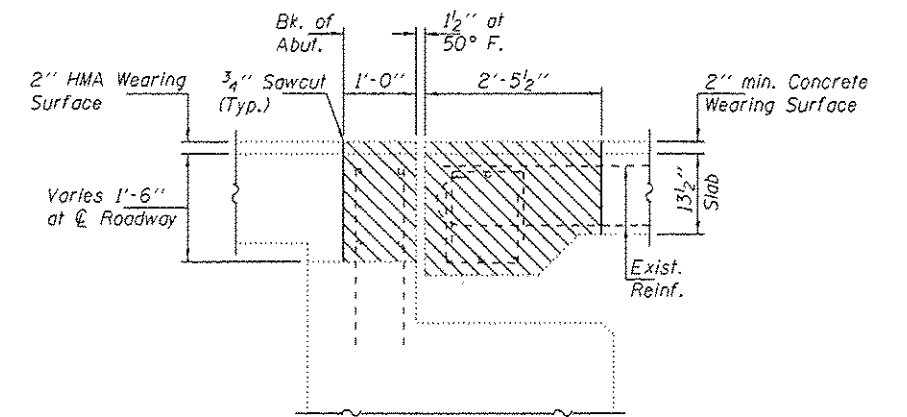
EXISTING CROSS SECTION

(Looking West at Northwest Abutment)
(Looking East at Southeast Abutment)

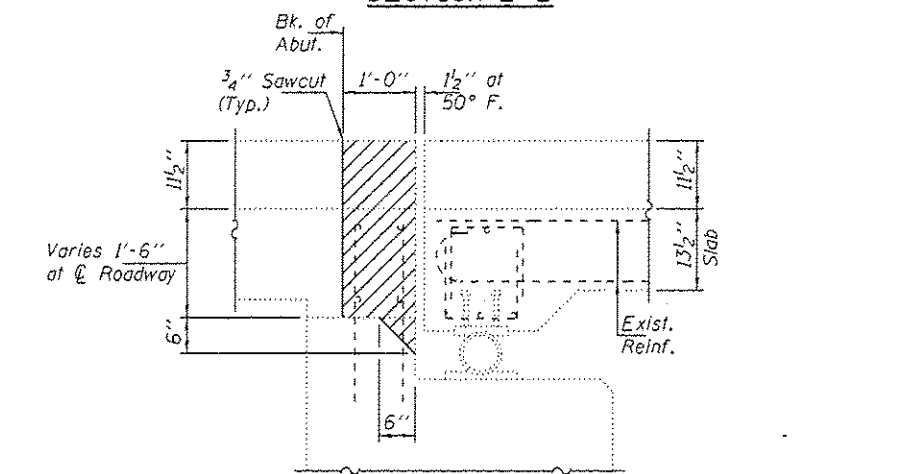
* Dimension at Rt. L to local tangent.



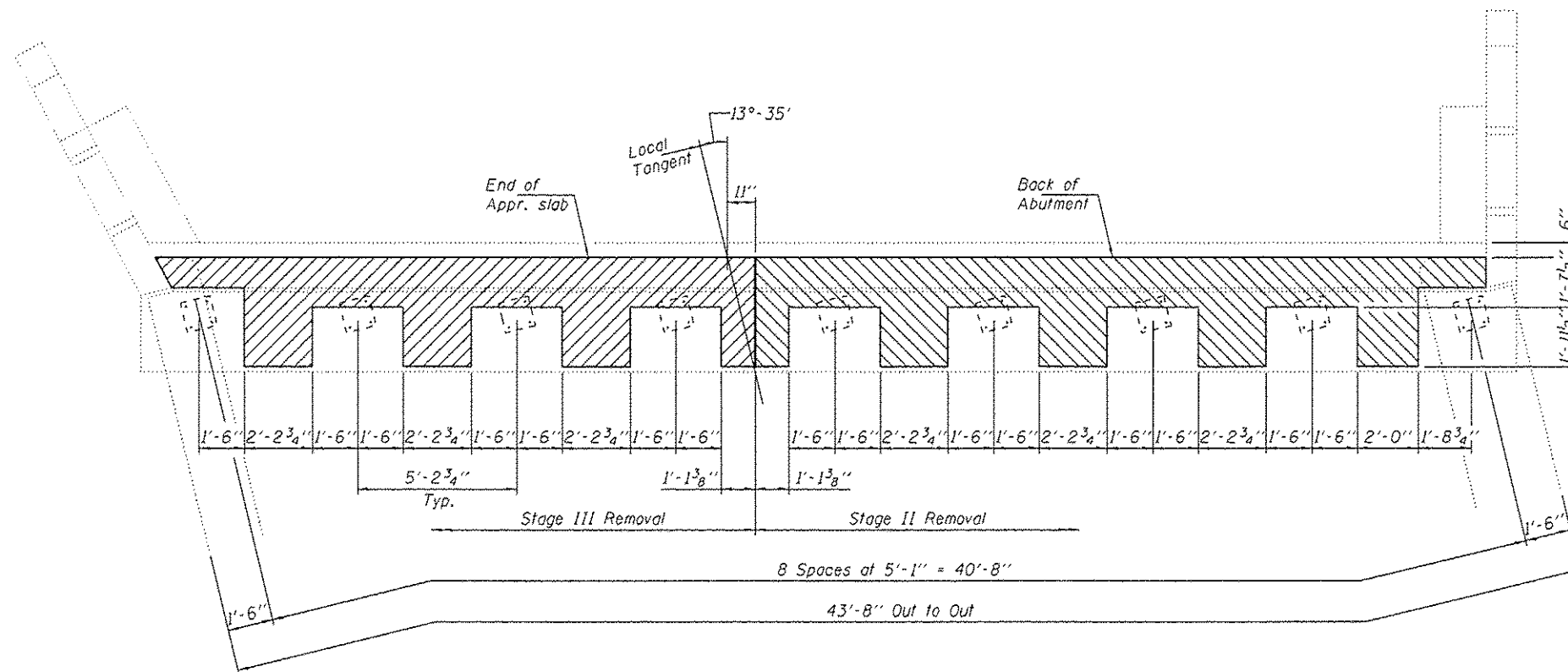
SECTION A-A



SECTION B-B



SECTION C-C



EXISTING PLAN

BILL OF MATERIAL

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	10.5

DESIGNED - GGE
CHECKED - SMR
DRAWN - Kyle M. Staffon
CHECKED - GGE SMR

EXAMINED *Timothy A. Ault*
ACTING ENGINEER OF STRUCTURAL SERVICES
PASSED *Carl Perry*
ACTING ENGINEER OF BRIDGES AND STRUCTURES

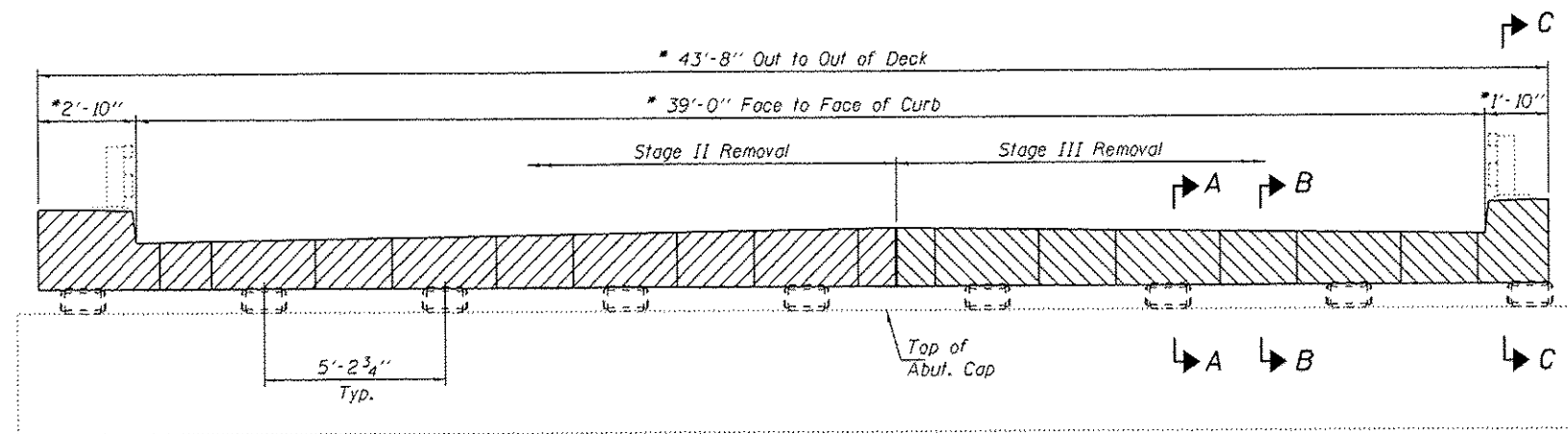
DATE - AUGUST 18, 2014

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL DETAILS AT NORTHWEST & SOUTHEAST ABUTMENTS
SN 060-0029 (EB) & 0030 (WB)

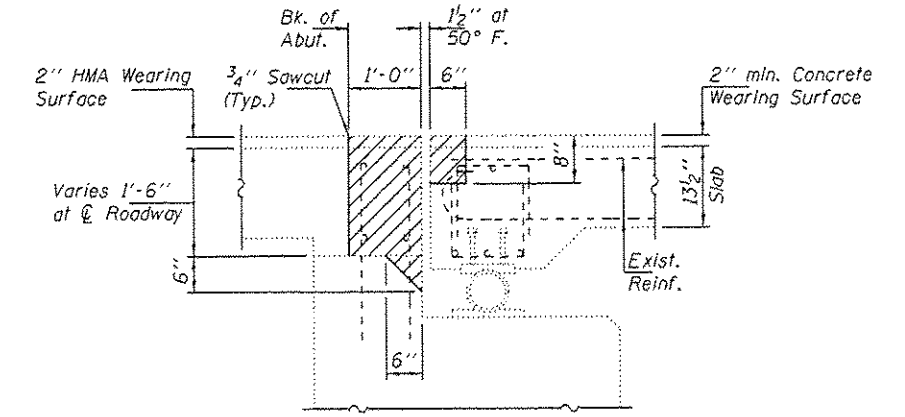
SHEET NO. 2 OF 8 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-11.12RS-3	MADISON	242	189
CONTRACT NO. 76F13				
ILLINOIS FED. AID PROJECT				

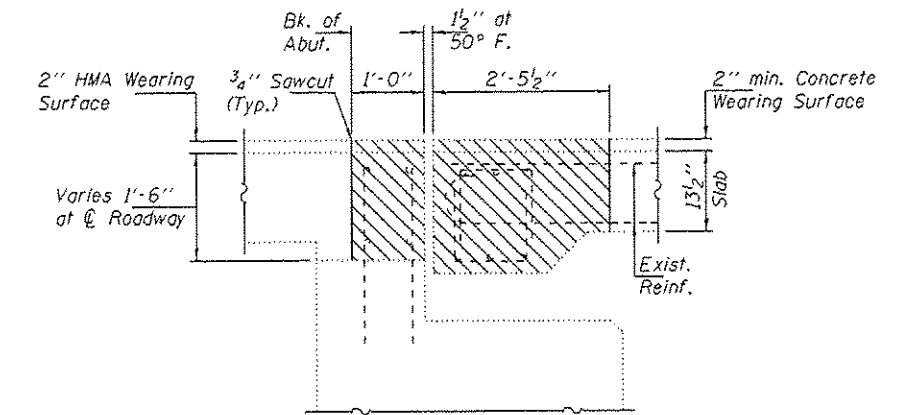


EXISTING CROSS SECTION
 (Looking East at Northeast Abutment)
 (Looking West at Southwest Abutment)

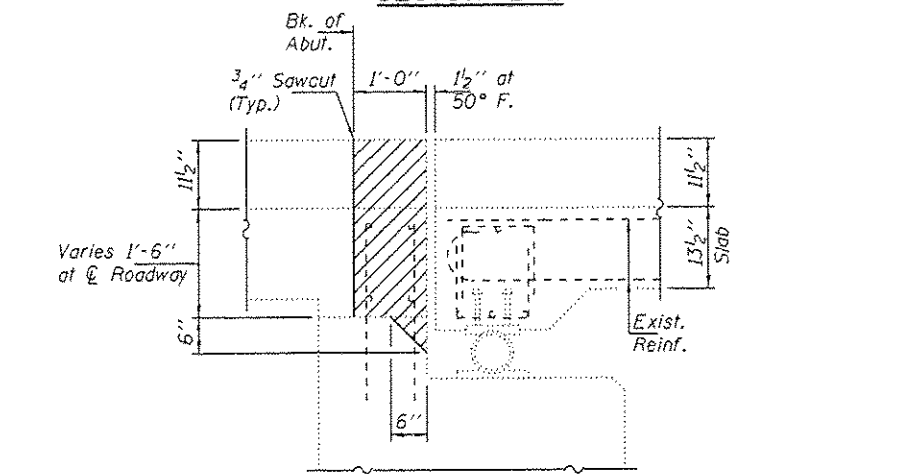
* Dimension at Rt. L to local tangent.



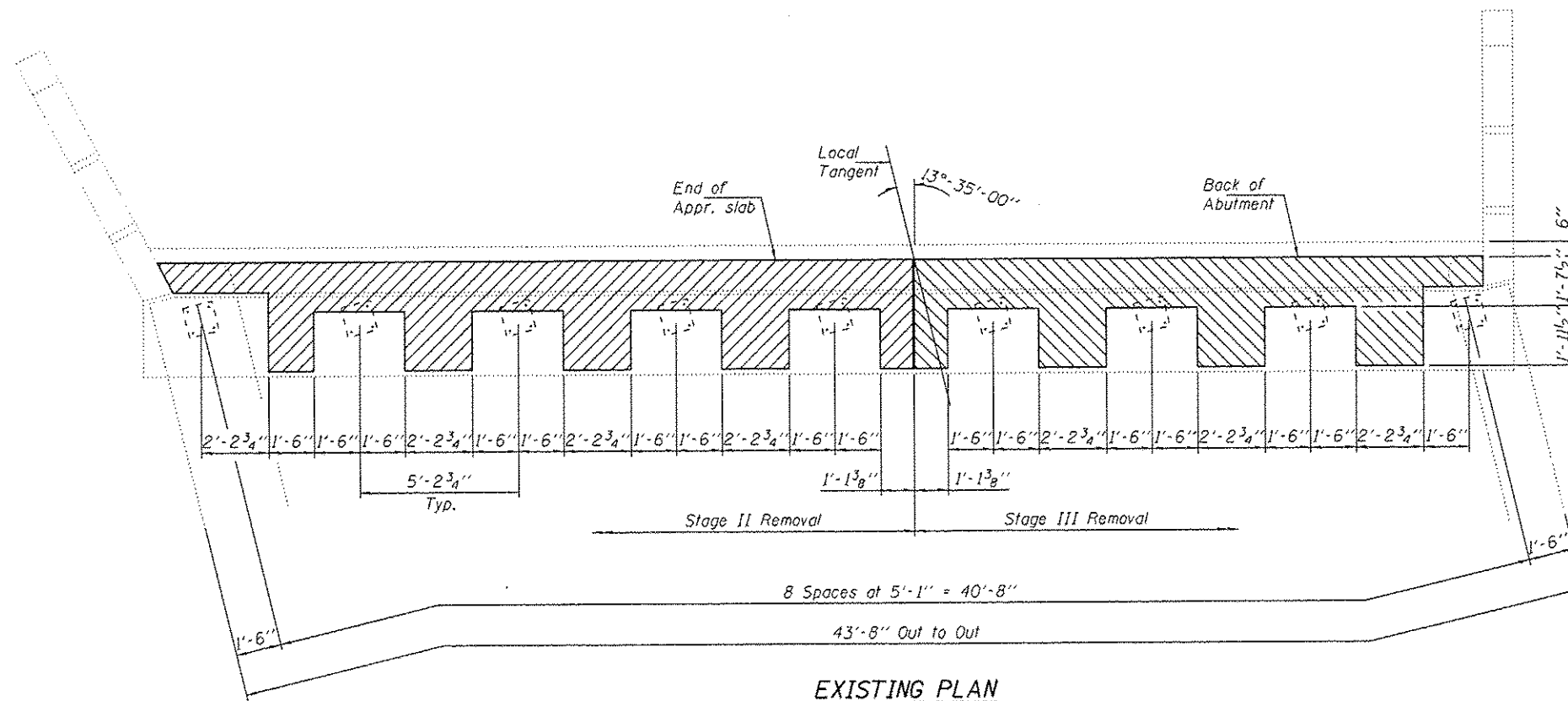
SECTION A-A



SECTION B-B



SECTION C-C



EXISTING PLAN

BILL OF MATERIAL

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	10.5

DESIGNED - GGE
 CHECKED - SMR
 DRAWN - Kyle M. Staffon
 CHECKED - GGE SMR

EXAMINED - *Timothy A. Daulton*
 ACTING ENGINEER OF STRUCTURAL SERVICES
 PASSED - *Carl Perry*
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - AUGUST 18, 2014

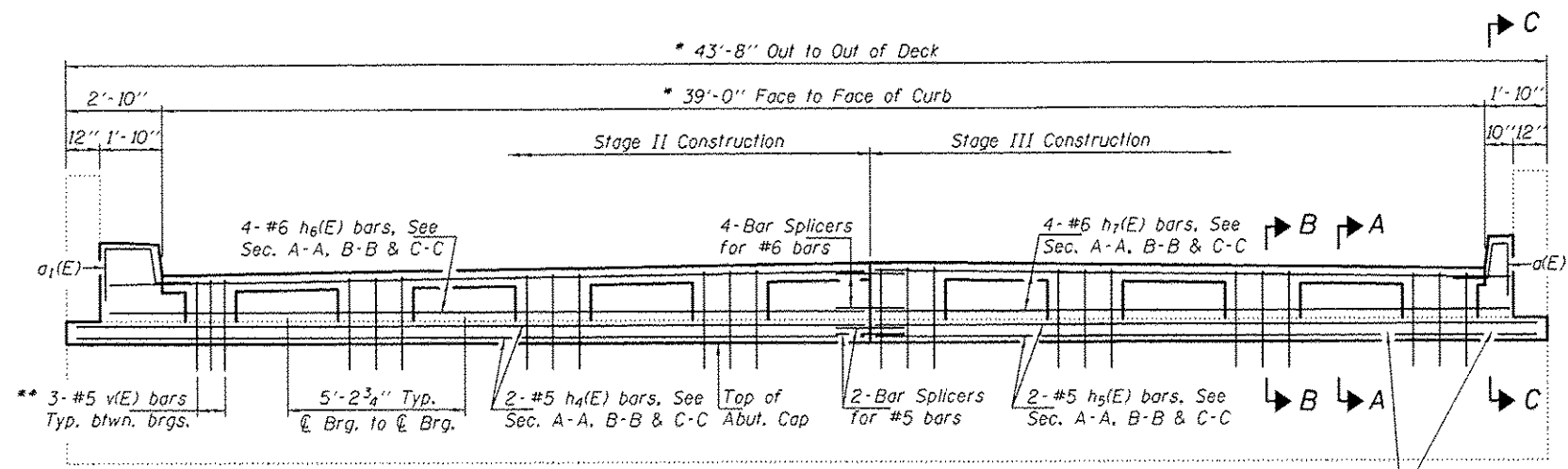
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

REMOVAL DETAILS AT NORTHEAST & SOUTHWEST ABUTMENTS
 SN 060-0029 (EB) & 0030 (WB)

SHEET NO. 3 OF 8 SHEETS

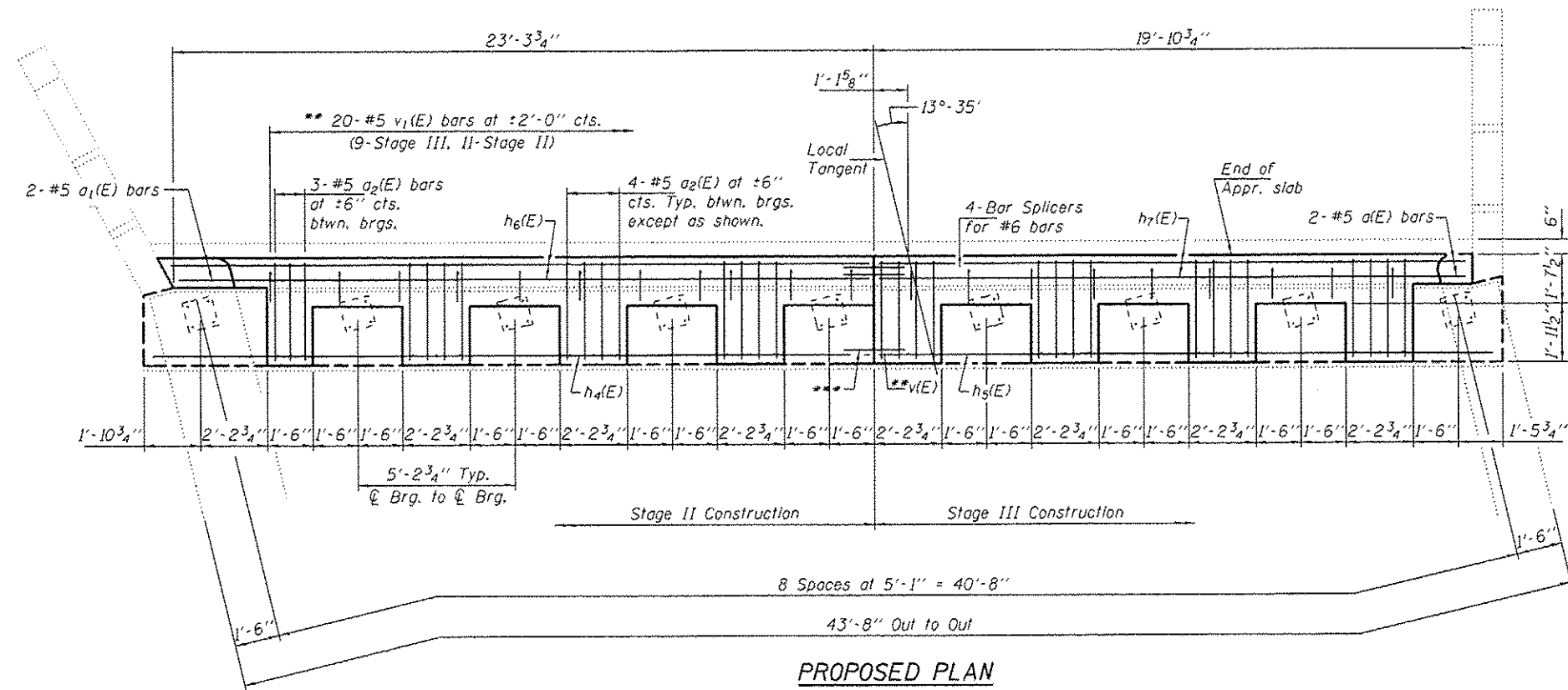
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-111.12/RS-3	MADISON	242	190

CONTRACT NO. 76F13
 ILLINOIS FED. AID PROJECT



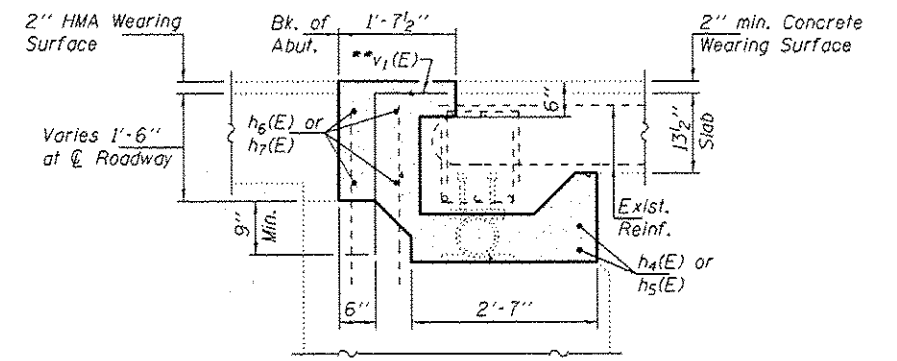
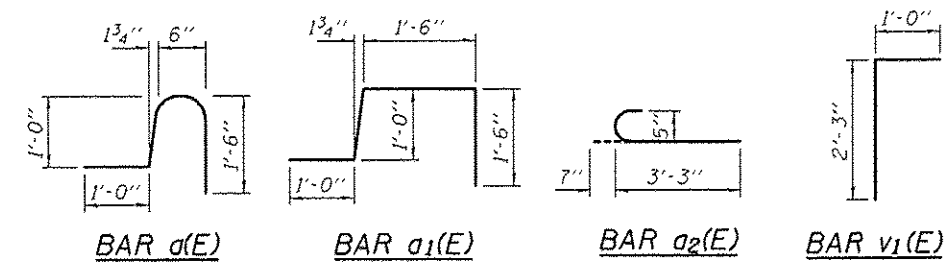
PROPOSED CROSS SECTION
 (Looking West at Northeast Abutment)
 (Looking East at Southwest Abutment)

Contractor shall ensure that concrete in these areas are properly consolidated. (Typ.)
 * Dimension at Rt. L to local tangent.

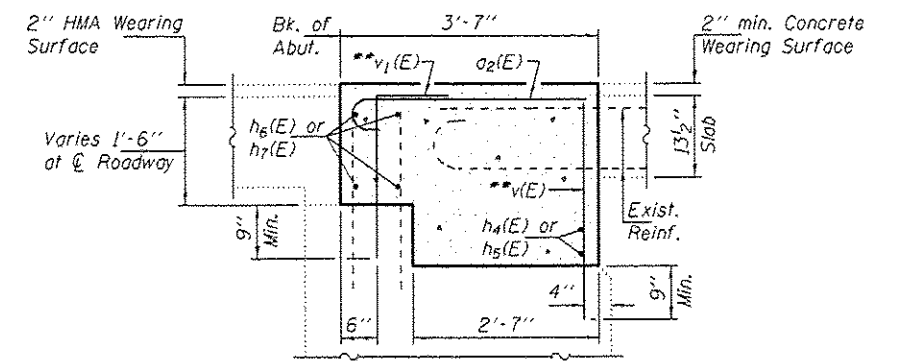


PROPOSED PLAN

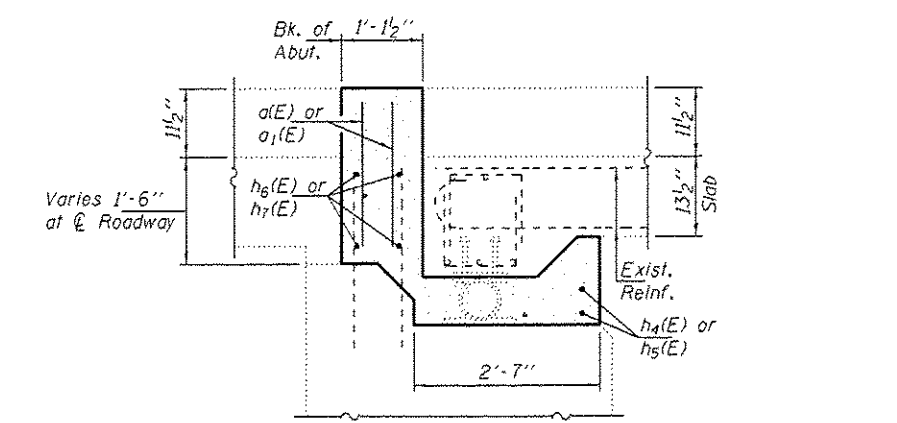
** Epoxy grout v(E) & v1(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.
 *** 2-Bar Splicers for #5 bars



SECTION A-A



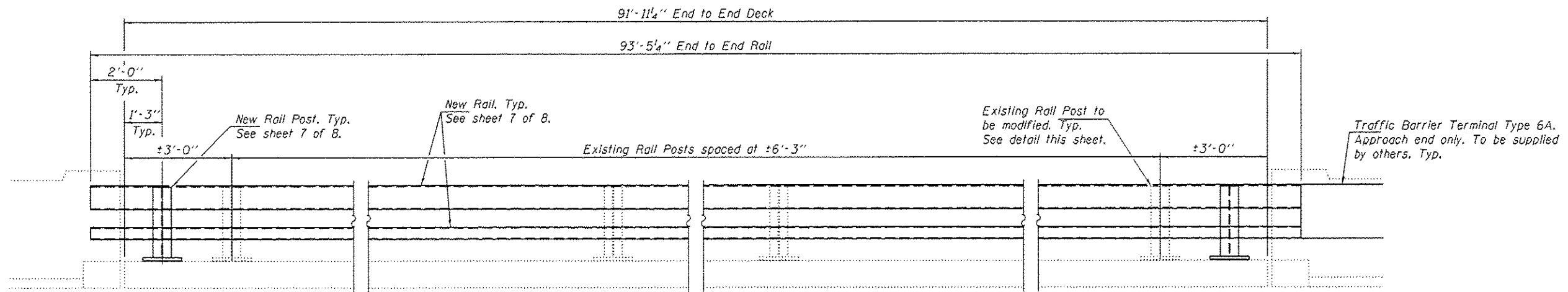
SECTION B-B



SECTION C-C

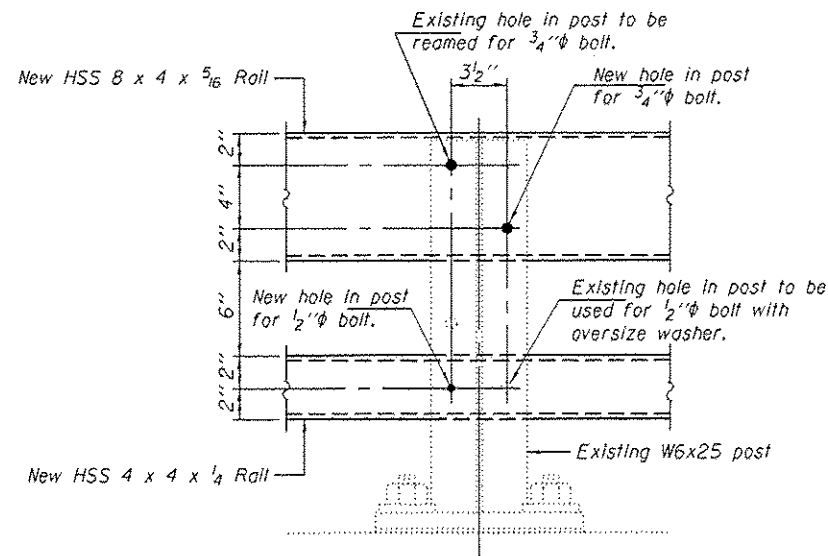
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	4	#5	4'-0"	┌
a1(E)	4	#5	5'-0"	┌
a2(E)	64	#5	3'-10"	┌
h4(E)	4	#5	23'-11"	—
h5(E)	4	#5	20'-7"	—
h6(E)	8	#6	22'-11"	—
h7(E)	8	#6	19'-6"	—
v(E)	48	#5	2'-3"	—
v1(E)	40	#5	3'-3"	┌
Bar Splicers		Each	12	
Concrete Superstructure		Cu. Yd.	17.6	
Reinforcement Bars, Epoxy Coated		Lbs.	1230	



RAIL MODIFICATION DETAIL

Notes:
 Existing top and bottom rail elements to be removed.
 One new rail post to be installed at each corner of the bridge.
 New top and bottom rail elements to be attached.



EXISTING RAIL POST MODIFICATION DETAIL

BILL OF MATERIAL

Item	Unit	Quantity
Bridge Rail Removal	Foot	375

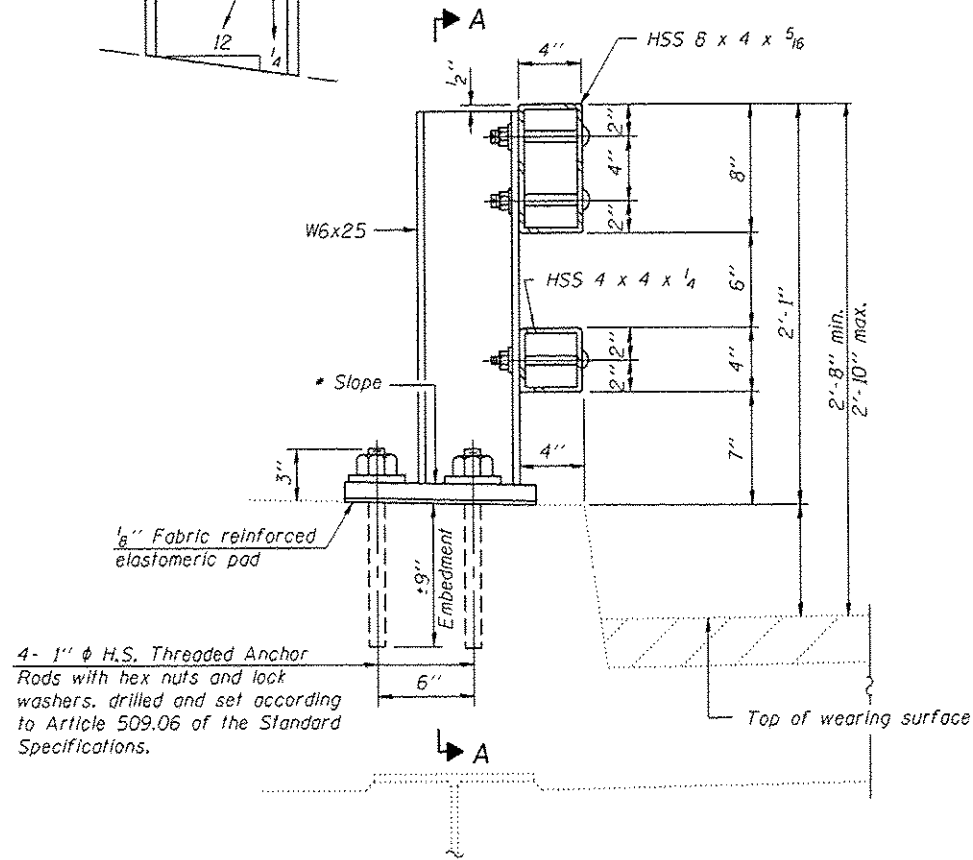
DESIGNED - GCE	EXAMINED - <i>Timothy A. Anhalt</i>	DATE - AUGUST 18, 2014
CHECKED - SMR	ACTING ENGINEER OF STRUCTURAL SERVICES	
DRAWN - Kyle M. Steffen	PASSED - <i>Carl Perry</i>	
CHECKED - GCE SMR	ACTING ENGINEER OF BRIDGES AND STRUCTURES	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

RAIL MODIFICATION DETAILS
 SN 060-0029 (EB) & 0030 (WB)

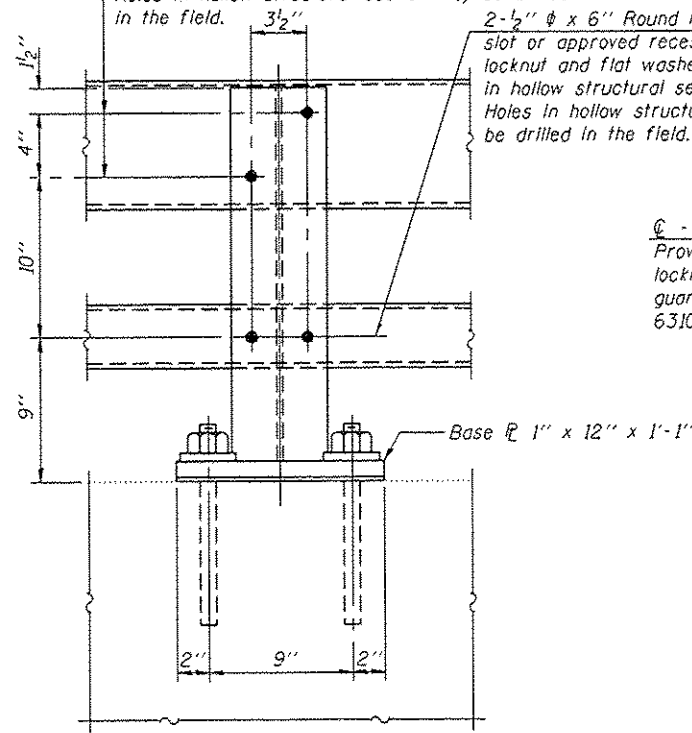
F.A.I. RTE. 70	SECTION 60-111.12/RS-3	COUNTY MADISON	TOTAL SHEETS 242	SHEET NO. 193
CONTRACT NO. 76F13			ILLINOIS FED. AID PROJECT	

* Cut bottom end of post to curb slope.



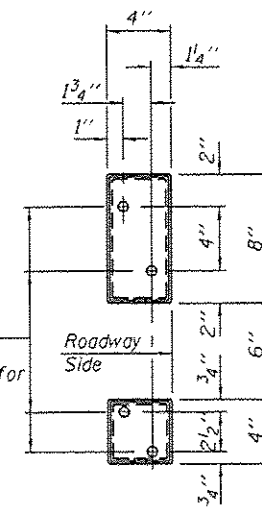
SECTION AT RAIL POST

2-3/4" φ x 6" Round Head Bolts (With slot or approved recess in head.) with locknut and flat washer. 7/8" φ Holes in tubing and posts. Holes in hollow structural section may be drilled in the field.

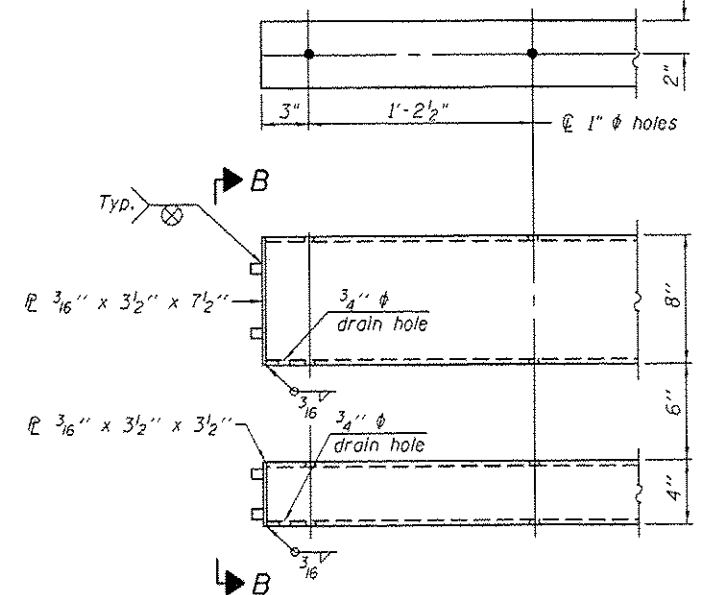


SECTION A-A

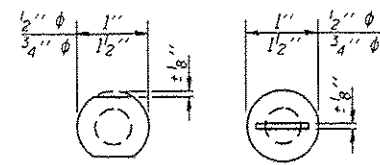
Provide 4 - 5/8" washers and self-locking nuts or nuts and jam nuts for guardrail connection shown on Std. 631032.



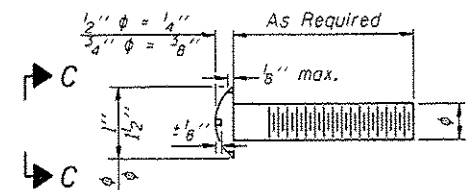
VIEW B-B



END OF RAIL DETAILS

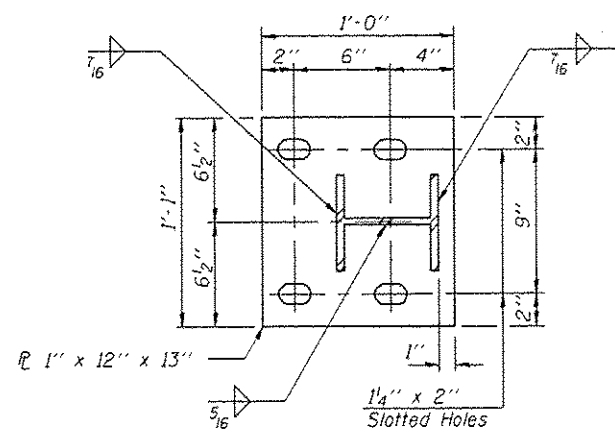


VIEW C-C

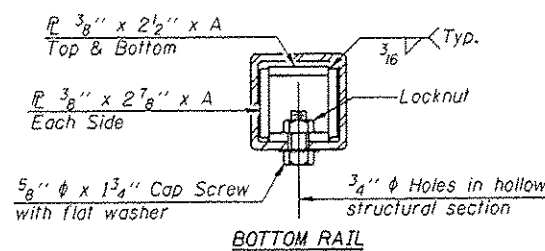


DETAIL OF 1/2" φ & 3/4" φ ROUND HEAD BOLTS

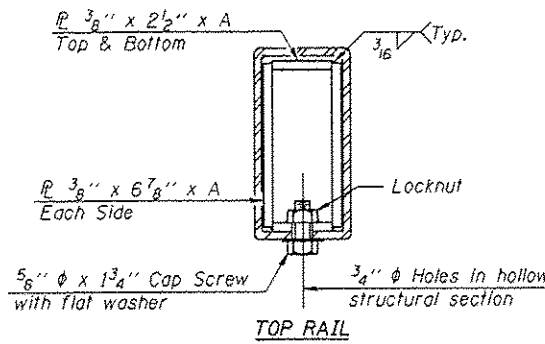
4- 1" φ H.S. Threaded Anchor Rods with hex nuts and lock washers, drilled and set according to Article 509.06 of the Standard Specifications.



BASE PLATE DETAIL

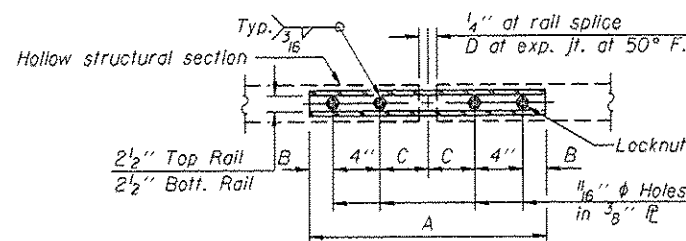


BOTTOM RAIL

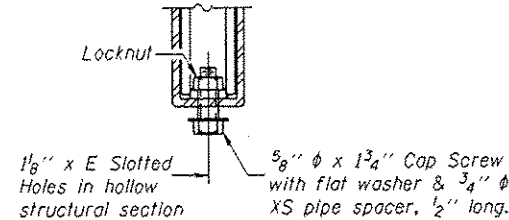


TOP RAIL

SECTIONS AT RAIL SPLICE



PLAN-BOTT. SPLICE R TYPICAL



RAIL SPLICE CONNECTION AT EXPANSION JT.

Notes:

- All field drilled holes shall be coated with an approved zinc rich paint before erection.
- Posts shall not be located closer than 1'-3" to an existing bridge expansion joint or end of bridge.
- Steel Bridge Rail expansion joint shall be provided between any two (2) posts which span a bridge expansion joint. Bolts located at expansion joint shall be provided with locknuts and shall be tightened only to a point that will allow rolling movement.
- Provide one 1/8" and two 1/16" steel shims for 25% of the posts. Shims shall be similar to base plates in size and holes.
- All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

SPLICE DIMENSIONS

T	D	A	B	C	E
≤ 4"	2 1/2"	1'-8"	2"	4"	2 1/2"
> 4" ≤ 6 1/2"	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
> 6 1/2" ≤ 9"	5"	2'-4"	3 1/2"	6 1/2"	9"
> 9" ≤ 13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	1 1/4"	1'-8"	2"	4"	—

T = Total movement at expansion joint as shown on the design plans.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Rolling, Type 2399	Foot	375

R-31

7-1-10

(6'-3" Maximum Post Spacing)

DESIGNED - GCE
 CHECKED - SMR
 DRAWN - Kyle M. Stoffen
 CHECKED - GCE SMR

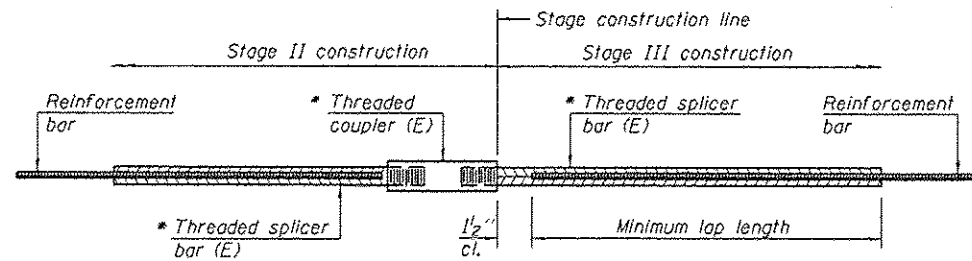
EXAMINED - *Timothy A. Smith*
 ACTING ENGINEER OF STRUCTURAL SERVICES
 PASSED - *Carl King*
 ACTING ENGINEER OF BRIDGES AND STRUCTURES
 DATE - AUGUST 18, 2014

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STEEL RAILING, TYPE 2399
 SN 060-0029 (EB) & 0030 (WB)

SHEET NO. 7 OF 8 SHEETS

F.A.I. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
 TO 60-(11,12)RS-3 MADISON 242 194
 CONTRACT NO. 76F13
 ILLINOIS FED. AID PROJECT



STANDARD BAR SPLICER ASSEMBLY

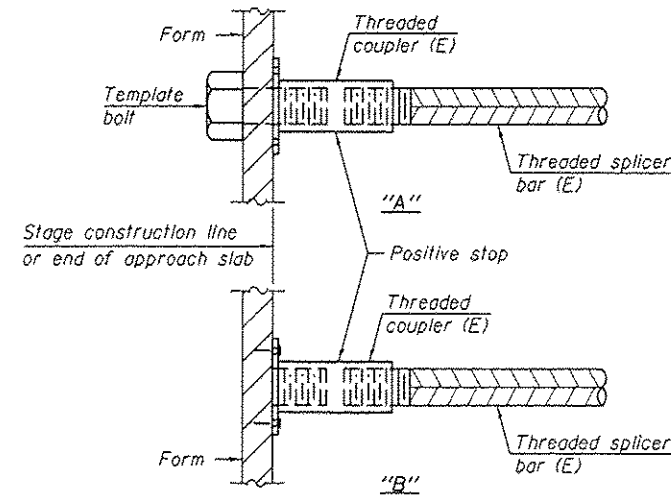
Bar size to be spliced	Minimum Lap Lengths					
	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"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

- 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
- Table 5: Epoxy bar, Class C
- Table 6: Epoxy bar, Top bar top, Class C

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

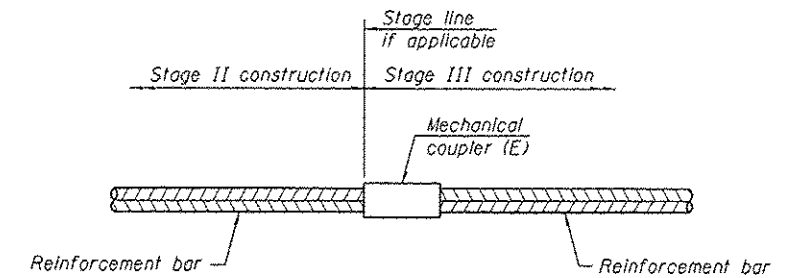
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Abutment	#5	8	3
Abutment	#5	16	3



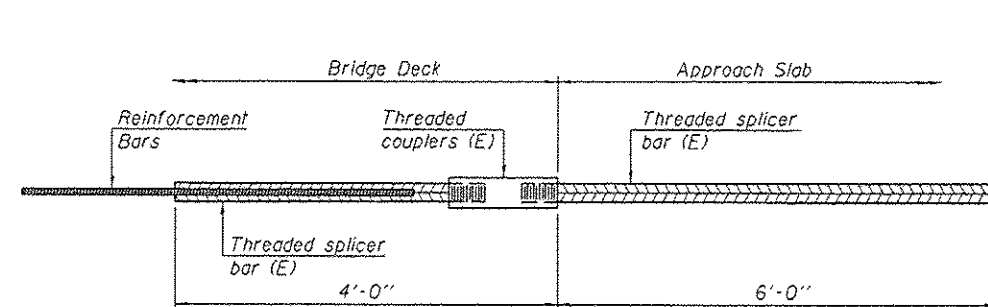
INSTALLATION AND SETTING METHODS

"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.



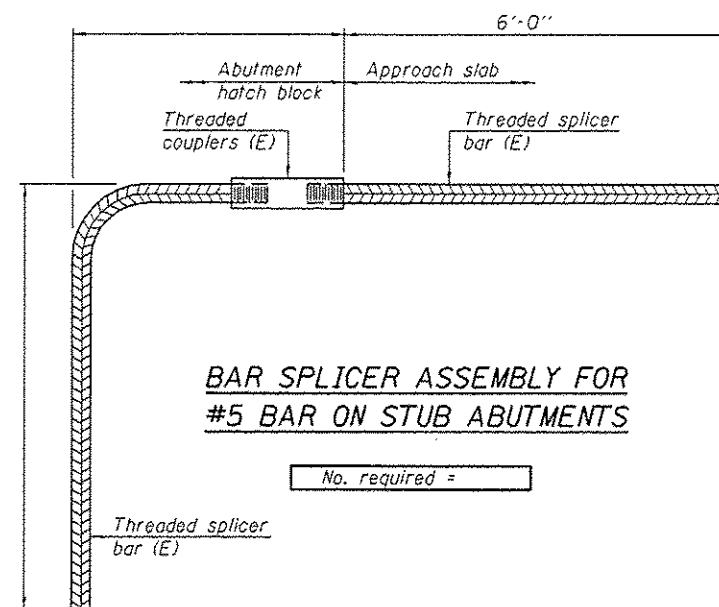
STANDARD MECHANICAL SPLICER

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

BSD-1

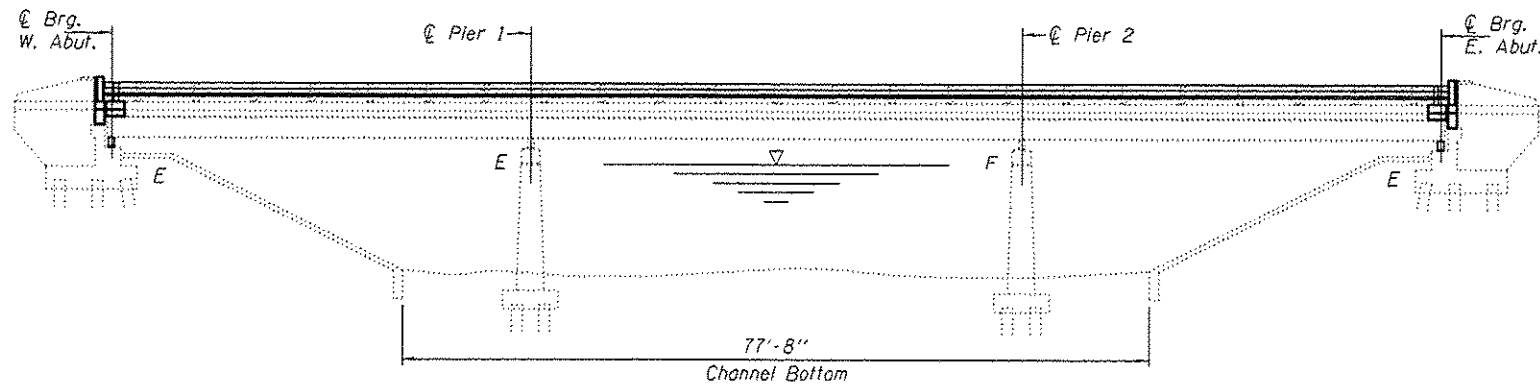
1-27-12

DESIGNED - GGE	EXAMINED	DATE - AUGUST 18, 2014
CHECKED - SMR	<i>Timothy A. Ault</i> ACTING ENGINEER OF STRUCTURAL SERVICES	
DRAWN - Kyle M. Steffen	PASSED	
CHECKED - GGE SMR	<i>Carl Perry</i> ACTING ENGINEER OF BRIDGES AND STRUCTURES	

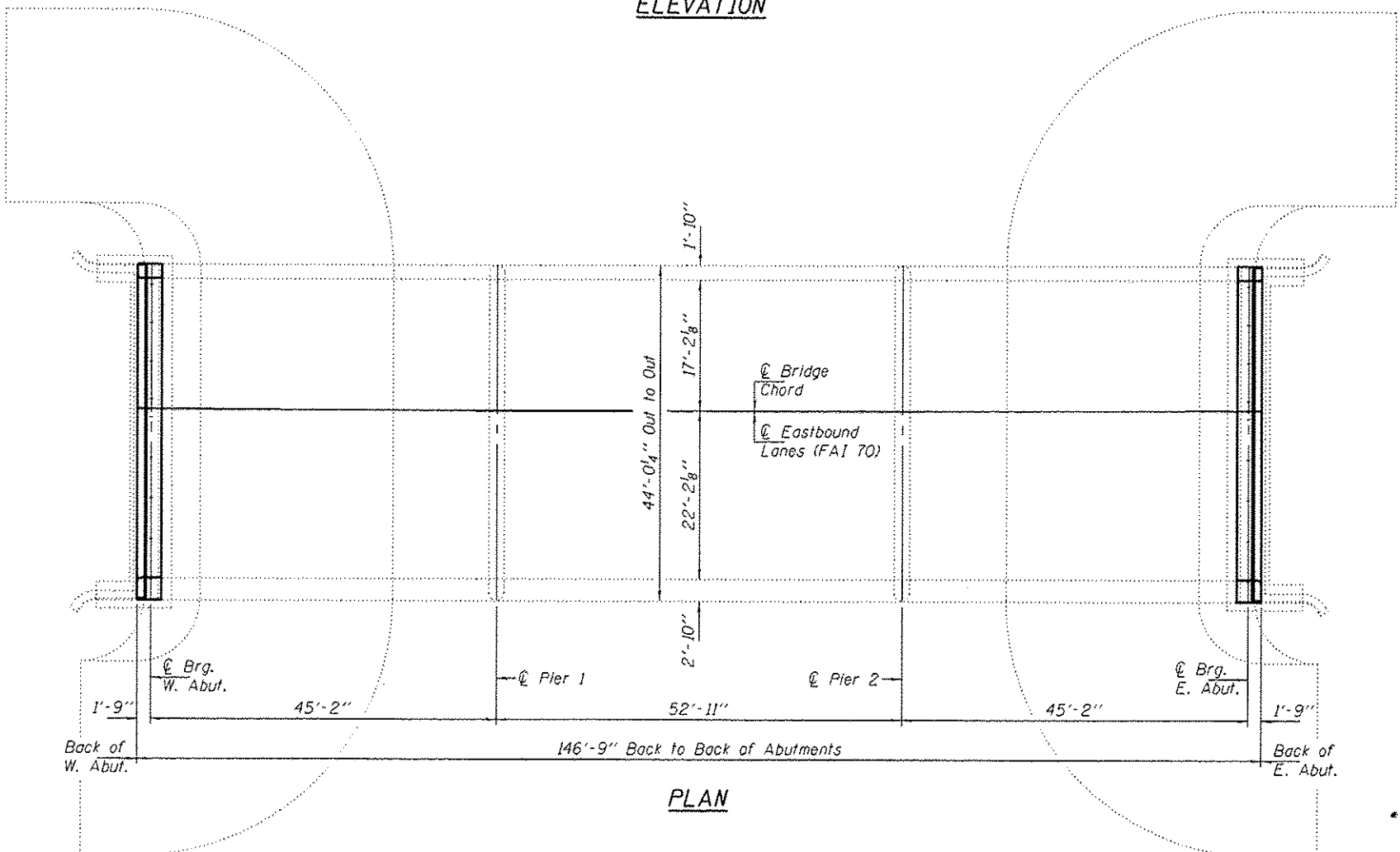
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
SN 060-0029 (EB) & 0030 (WB)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-111.12/RS-3	MADISON	242	195
CONTRACT NO. 76P13			ILLINOIS FED. AID PROJECT	



ELEVATION



PLAN

GENERAL NOTES

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

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 shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

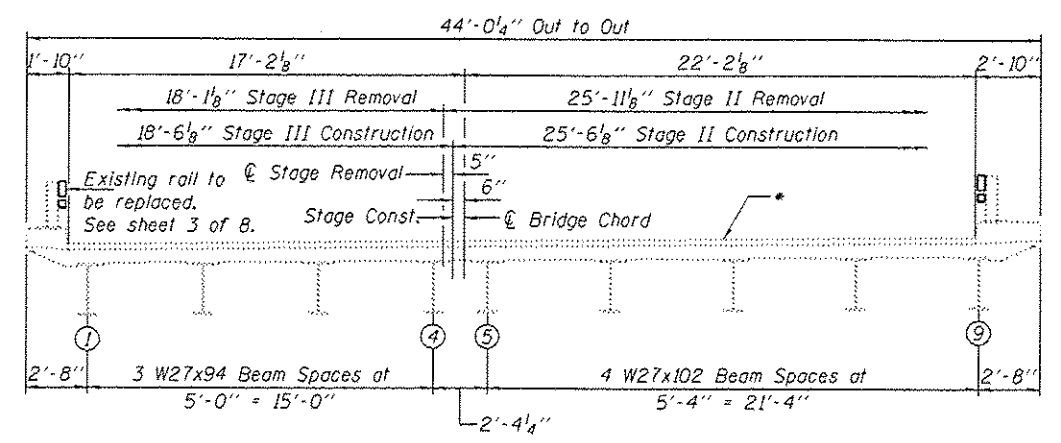
Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods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

The new deck surface shall have its final finish tined according to Article 420.09(e)(1) of the Standard Specifications. Cost included with Concrete Superstructure.

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.

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

Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". All beams, bearings and other structural steel within 5 ft. (measured along beam) of either side of deck joints shall be cleaned per Near White Blast Cleaning - SSPC-SP10. The exterior surfaces and bottom of the bottom flange of the fascia beams shall be cleaned per Commercial Grade Power Tool Cleaning - SSPC-SP15. The designated areas cleaned per Near White Blast Cleaning and per Commercial Grade Power Tool Cleaning shall be painted according to the requirements of Paint System 1 - OZ/E/U. The color of the final finish coat for all interior and exterior steel surfaces shall be Interstate Green, Munsell No. 7.5G 4/8.



CROSS SECTION
(Looking East)

* Apply Bridge Deck Concrete Sealer to the deck surface and the face & top of the curbs.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	12.4
Concrete Superstructure	Cu. Yd.	12.4
Prefomed Joint Strip Seal	Foot	92
Reinforcement Bars, Epoxy Coated	Pound	1380
Bar Splicers	Each	24
Bridge Deck Concrete Sealer	Sq. Ft.	6550
Cleaning and Painting Steel Bridge No. 5	L.S.	1
Containment and Disposal of Lead Paint Cleaning Residues, Bridge No. 5	L.S.	1
Jack and Remove Existing Bearings	Each	18
Elastomeric Bearing Assembly, Type I	Each	9
Elastomeric Bearing Assembly, Type II	Each	9
Anchor Bolts, 1"φ	Each	36
Furnishing and Erecting Structural Steel	Pound	2420
Bridge Rail Removal	Foot	292
Steel Railing, Type 2399.	Foot	292



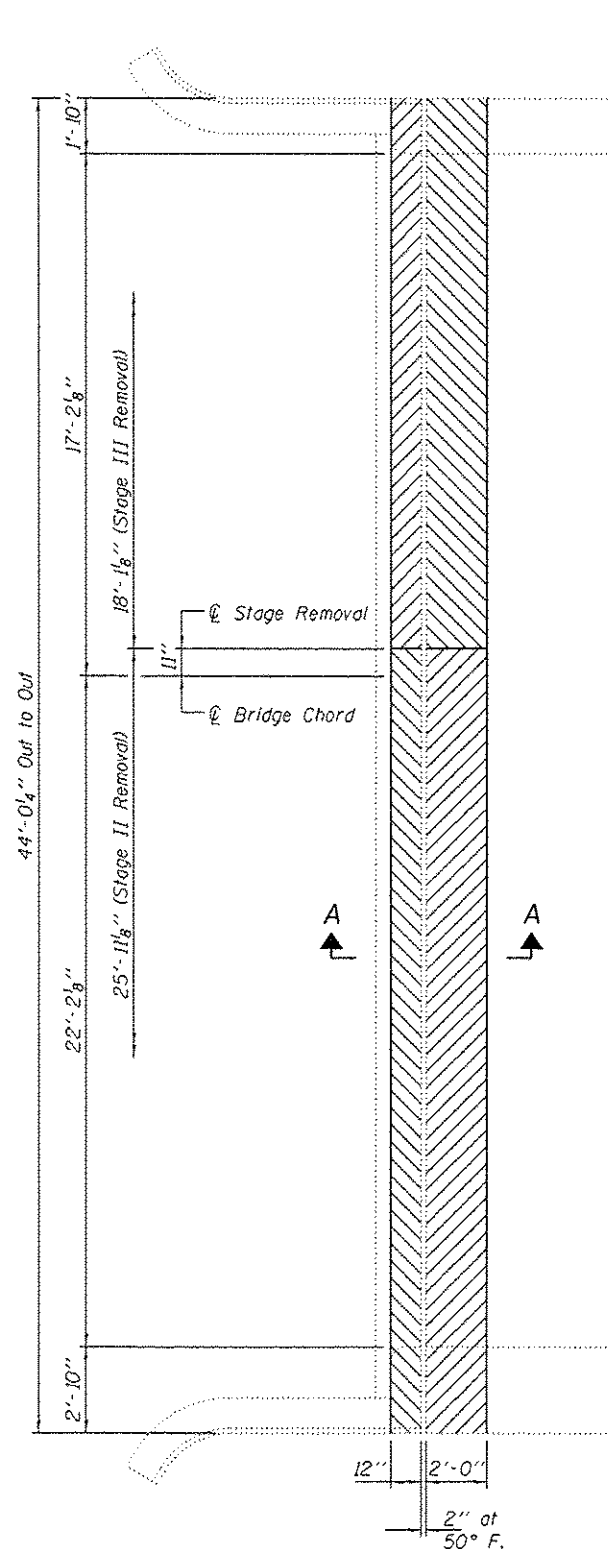
Expires: November 30, 2014

DESIGNED - <i>Stephen M. Ryan</i>	EXAMINED - <i>Tony A. [Signature]</i>	DATE - AUGUST 18, 2014
CHECKED - <i>Tom [Signature]</i>	PASSED - <i>[Signature]</i>	
DRAWN - Kyla M. Stoffon		
CHECKED - <i>SMR TLL</i>		

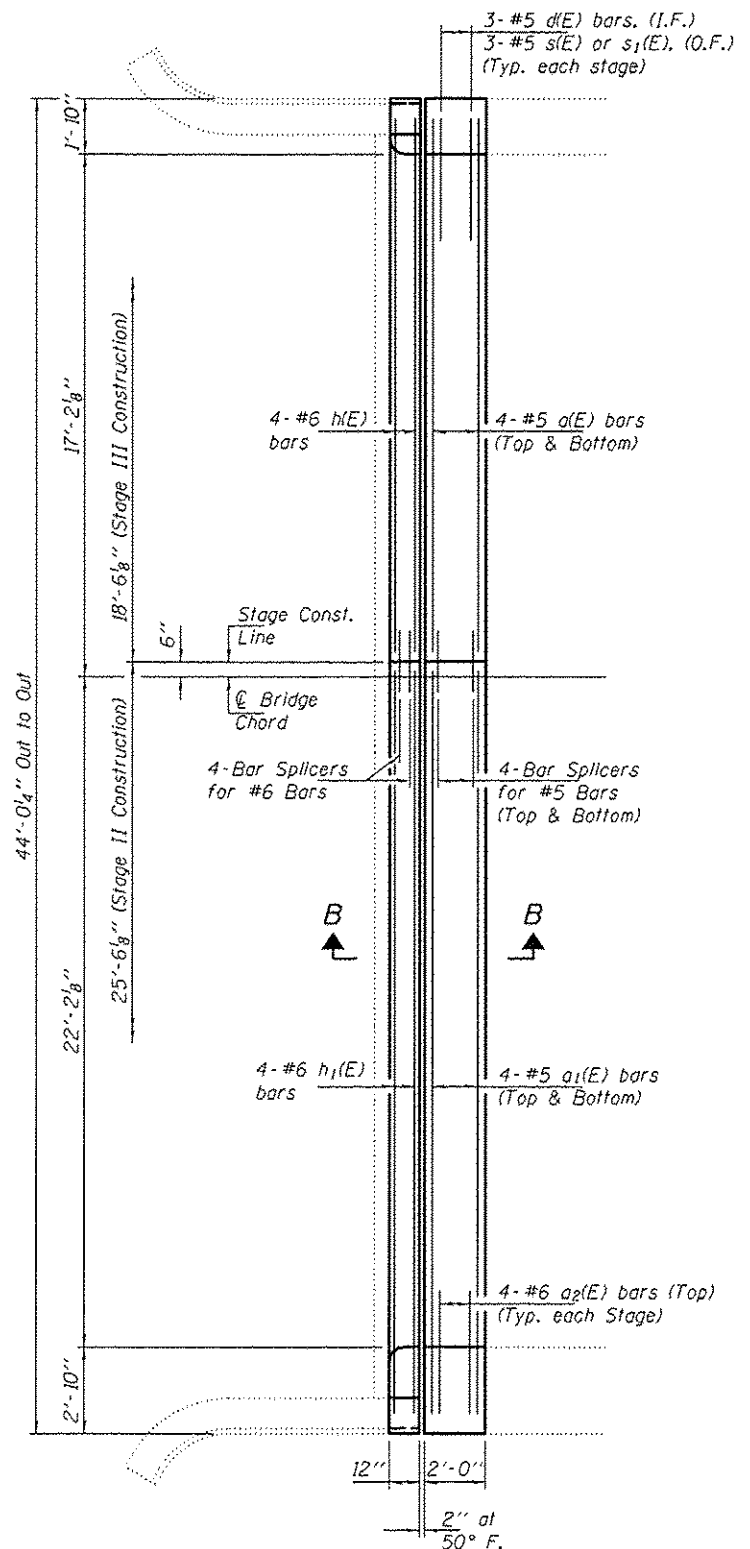
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
F.A.I. ROUTE 70 OVER SUGAR CREEK
SN 060-0031 (E.B.)

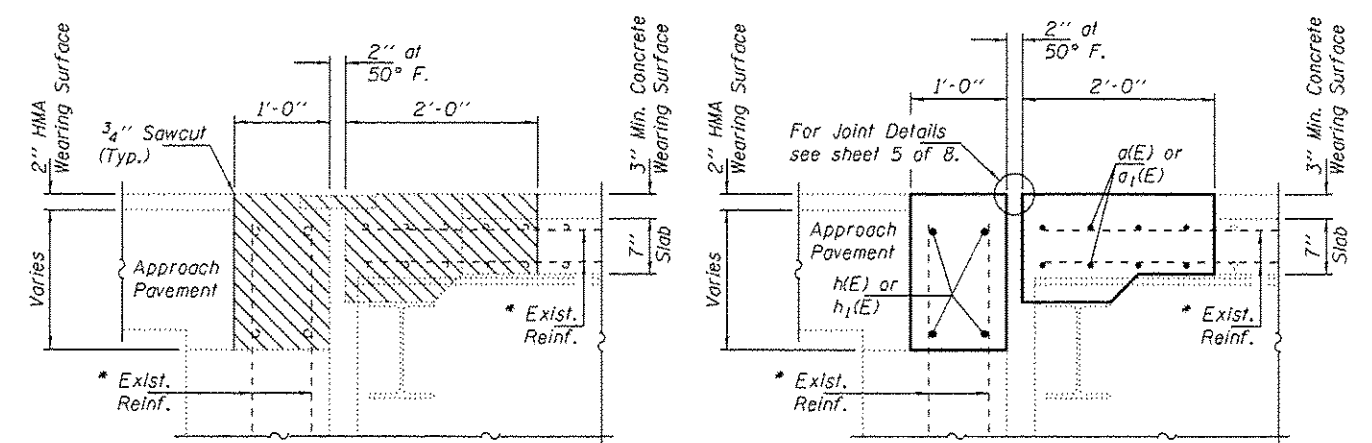
F.A.I. RTE. 70	SECTION 60-111.12/RS-3	COUNTY MADISON	TOTAL SHEETS 242	SHEET NO. 196
SHEET NO. 1 OF 8 SHEETS			CONTRACT NO. 76F13	
[ILLINOIS] FED. AID PROJECT				



REMOVAL PLAN
West Abutment shown,
East Abutment similar.

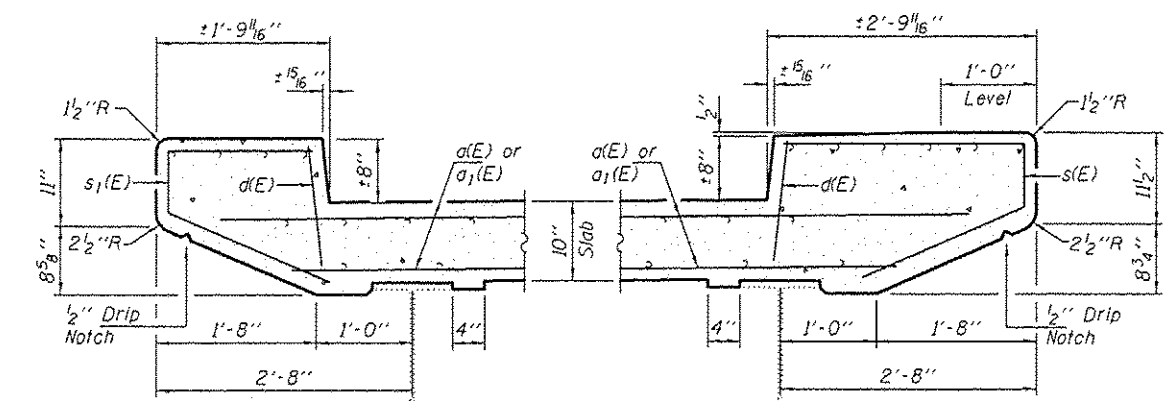


REPLACEMENT PLAN
West Abutment shown,
East Abutment similar.



SECTION A-A

SECTION B-B



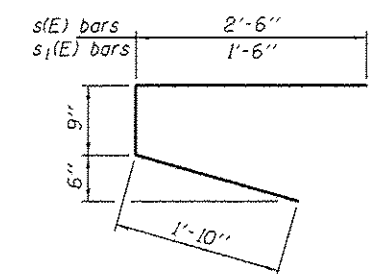
NORTH CURB DETAILS

SOUTH CURB DETAILS

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

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	16	#5	18'-0"	—
a1(E)	16	#5	25'-0"	—
a2(E)	16	#6	4'-0"	—
d(E)	12	#4	1'-3"	—
h(E)	8	#6	18'-0"	—
h1(E)	8	#6	25'-0"	—
s(E)	6	#4	5'-1"	┘
s1(E)	6	#4	4'-1"	┘
Concrete Removal			Cu. Yd.	12.4
Concrete Superstructure			Cu. Yd.	12.4
Bar Splicers			Each	24
Reinforcement Bars, Epoxy Coated			Pound	1380



BARS s(E) & s1(E)

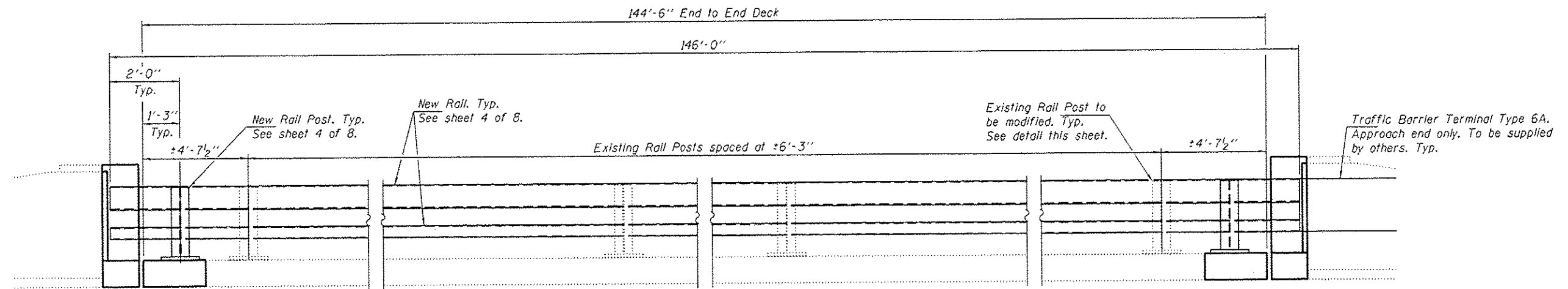
DESIGNED - SMR	EXAMINED - <i>Timothy A. Anhalt</i>	DATE - AUGUST 18, 2014
CHECKED - TLC	ACTING ENGINEER OF STRUCTURAL SERVICES	
DRAWN - Kyla M. Stoffen	PASSED - <i>Carl Perry</i>	
CHECKED - SMR TLC	ACTING ENGINEER OF BRIDGES AND STRUCTURES	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXPANSION JOINT REMOVAL & REPLACEMENT DETAILS
SN 060-0031 (E.B.)**

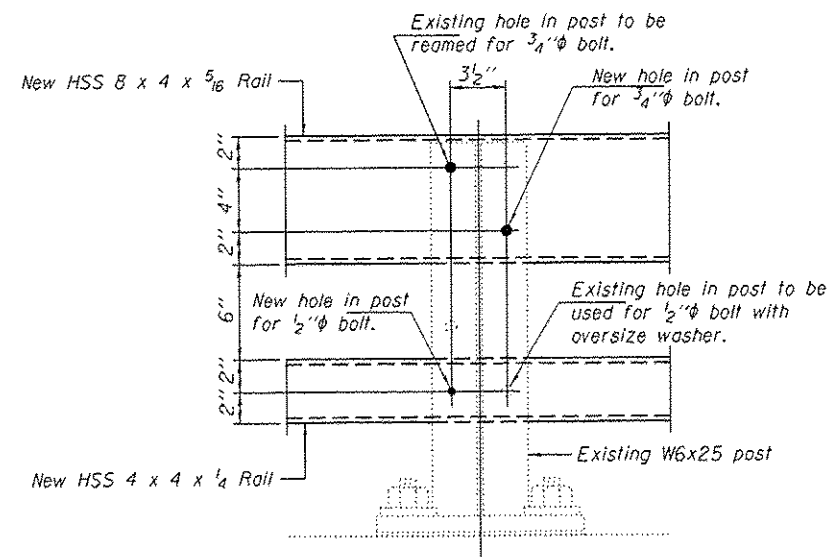
SHEET NO. 2 OF 8 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-111.12RS-3	MADISON	242	197
CONTRACT NO. 76F13			ILLINOIS FED. AID PROJECT	



RAIL MODIFICATION DETAIL

Notes:
Existing top and bottom rail elements to be removed.
One new rail post to be installed at each corner of the bridge.
New top and bottom rail elements to be attached.



EXISTING RAIL POST MODIFICATION DETAIL

BILL OF MATERIAL

Item	Unit	Quantity
Bridge Rail Removal	Foot	292

DESIGNED - SMR	EXAMINED - <i>Timothy A. Anhalt</i> ACTING ENGINEER OF STRUCTURAL SERVICES	DATE - AUGUST 18, 2014
CHECKED - TLC	PASSED - <i>Carl Papp</i> ACTING ENGINEER OF BRIDGES AND STRUCTURES	
DRAWN - Kyle M. Stoffen		
CHECKED - SMR TLC		

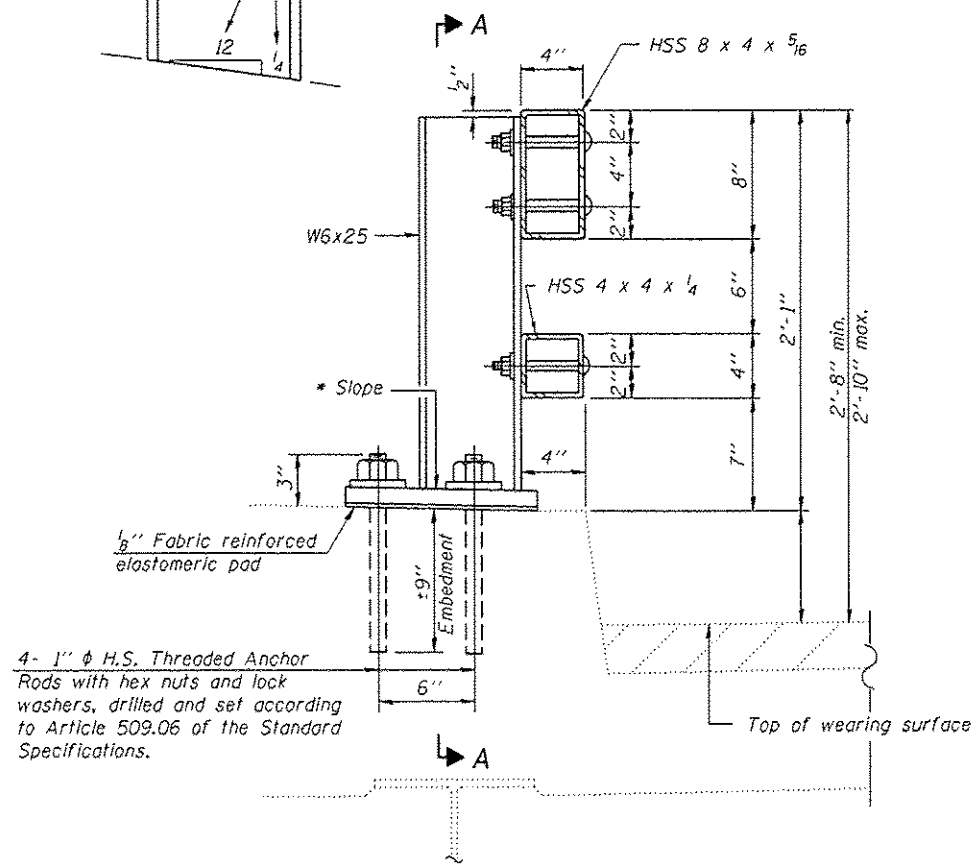
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RAIL MODIFICATION DETAILS
SN 060-0031 (E.B.)

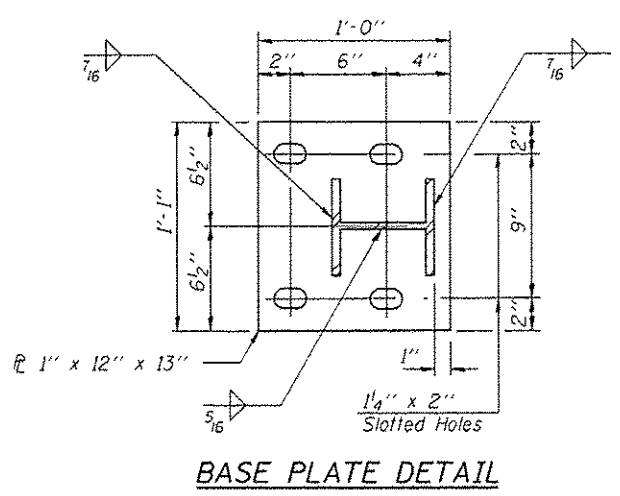
SHEET NO. 3 OF 8 SHEETS

F.A.I. RTE. 70	SECTION 60-111.12/RS-3	COUNTY MADISON	TOTAL SHEETS 242	SHEET NO. 198
CONTRACT NO. 76F13			ILLINOIS FED. AID PROJECT	

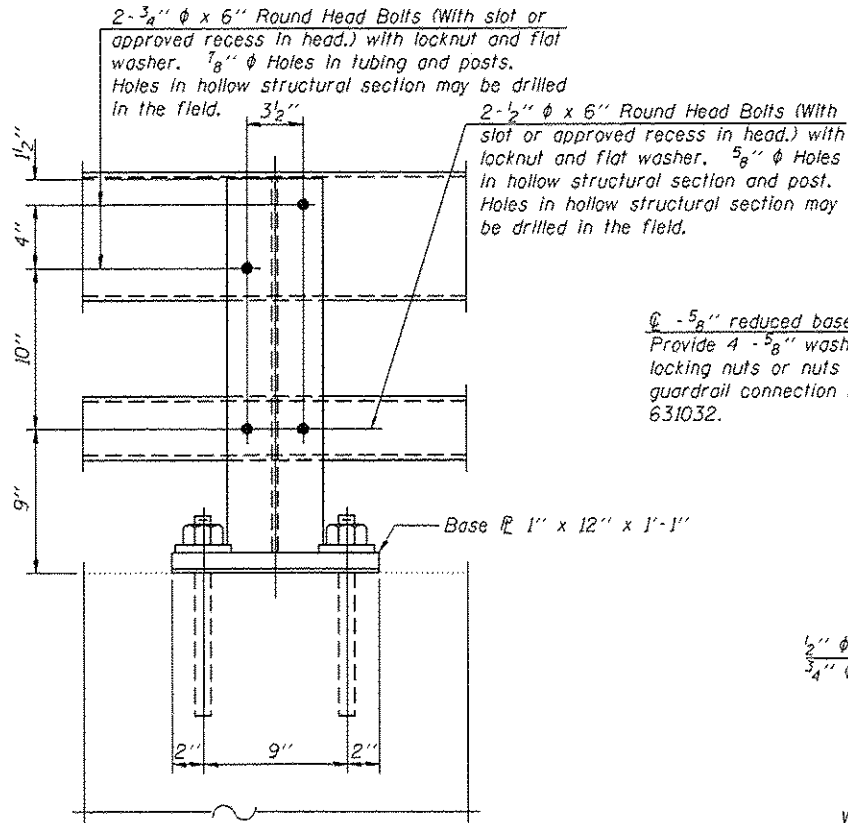
* Cut bottom end of post to curb slope.



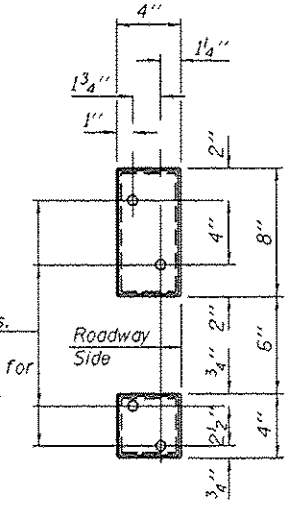
SECTION AT RAIL POST



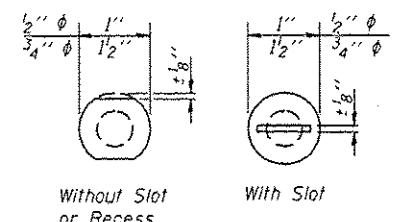
BASE PLATE DETAIL



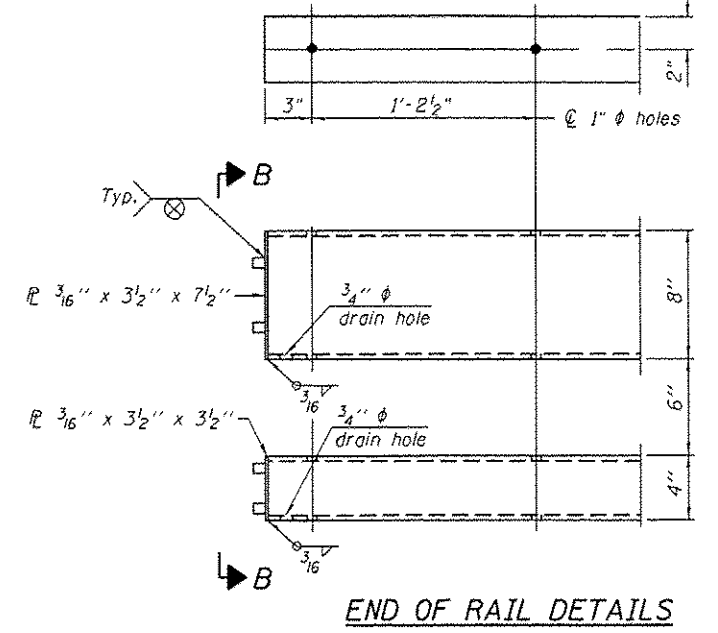
SECTION A-A



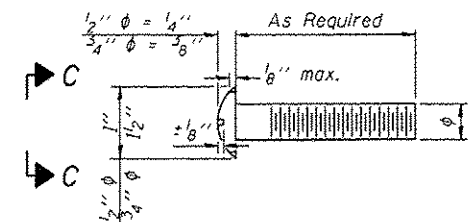
VIEW B-B



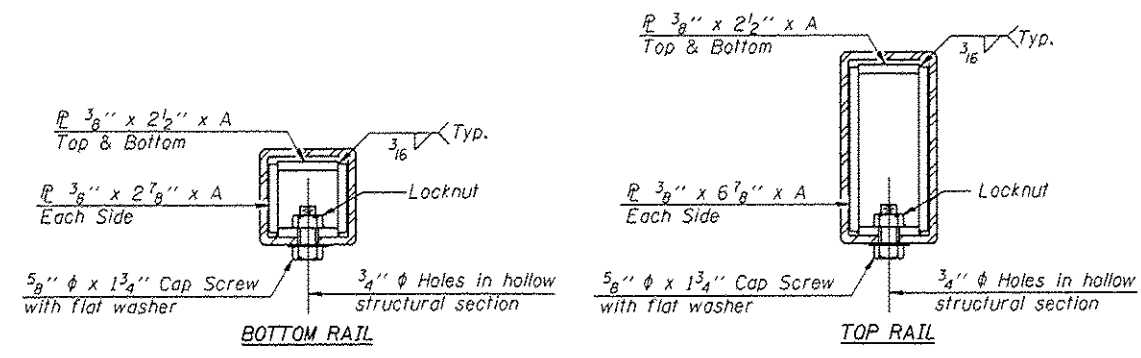
VIEW C-C



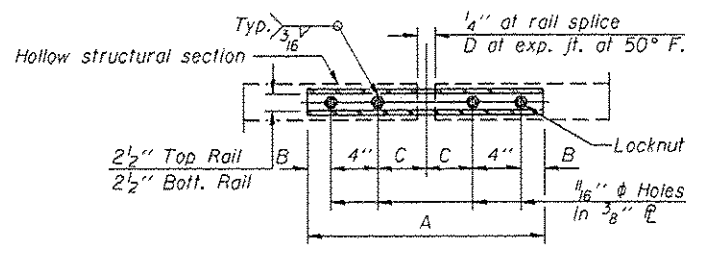
END OF RAIL DETAILS



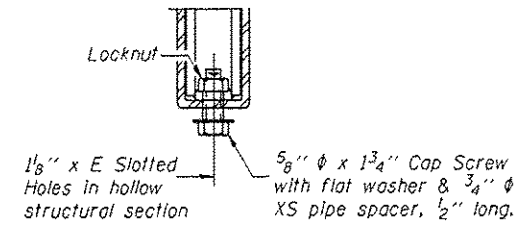
DETAIL OF 1/2" φ & 3/4" φ ROUND HEAD BOLTS



SECTIONS AT RAIL SPLICE



PLAN-BOTT. SPLICE TYPICAL



RAIL SPLICE CONNECTION AT EXPANSION JT.

Notes:
 All field drilled holes shall be coated with an approved zinc rich paint before erection.
 Posts shall not be located closer than 1'-3" to an existing bridge expansion joint or end of bridge.
 Steel Bridge Rail expansion joint shall be provided between any two (2) posts which span a bridge expansion joint. Bolts located at expansion joint shall be provided with locknuts and shall be tightened only to a point that will allow railing movement.
 Provide one 1/8" and two 1/16" steel shims for 25% of the posts. Shims shall be similar to base plates in size and holes.
 All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

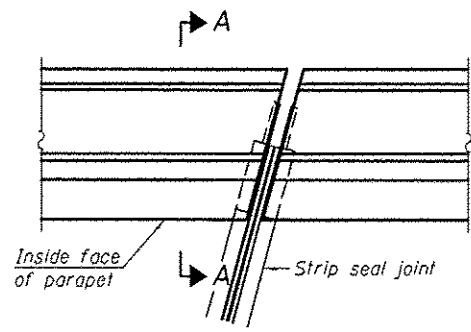
SPLICE DIMENSIONS

T	D	A	B	C	E
≤ 4"	2 1/2"	1'-8"	2"	4"	2 1/2"
> 4" ≤ 6 1/2"	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
> 6 1/2" ≤ 9"	5"	2'-4"	3 1/2"	6 1/2"	9"
> 9" ≤ 13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	1/4"	1'-8"	2"	4"	—

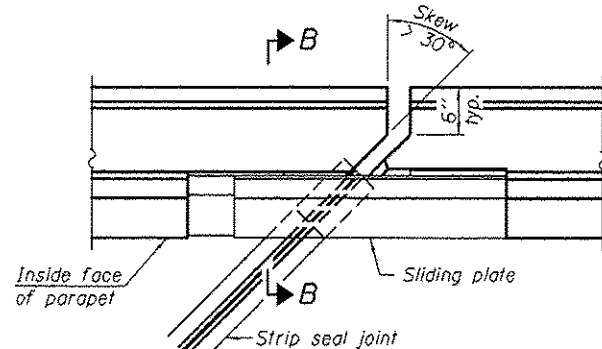
T = Total movement at expansion joint as shown on the design plans.

BILL OF MATERIAL

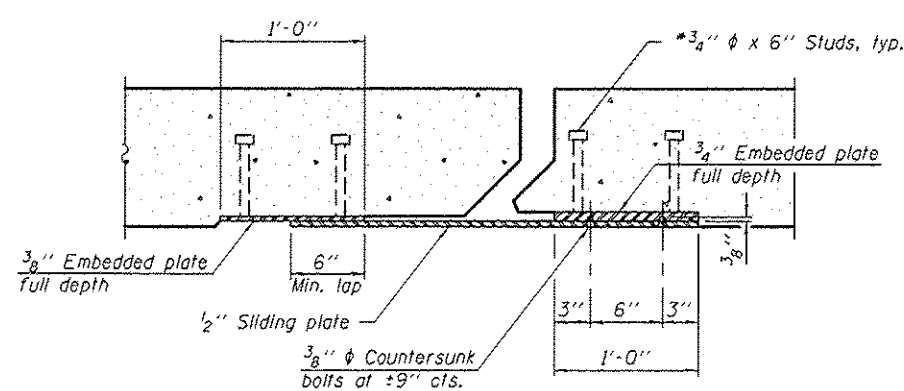
Item	Unit	Quantity
Steel Railing, Type 2399	Foot	292



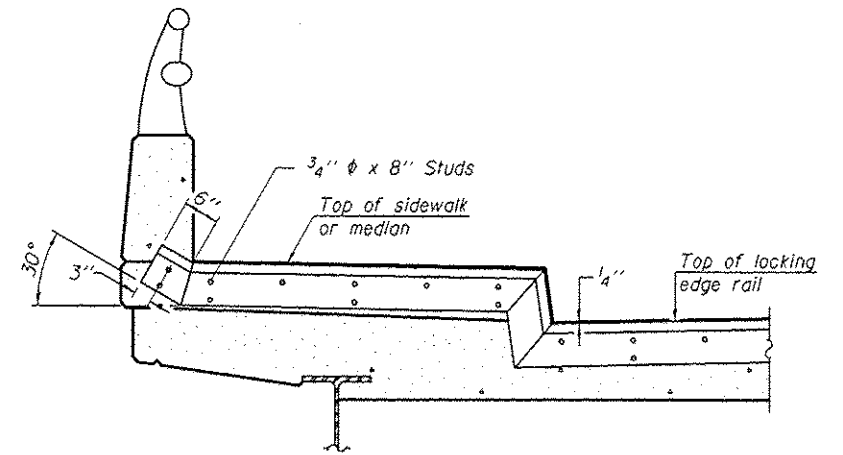
PLAN
(For skews $\leq 30^\circ$)



PLAN
(For skews $> 30^\circ$)
Showing point block

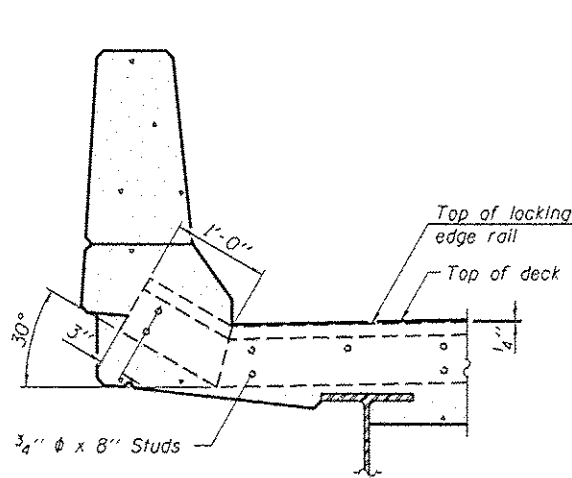


SECTION C-C

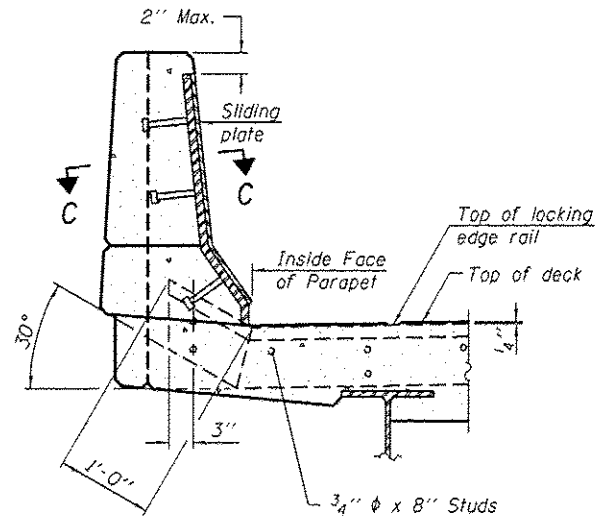


TYPICAL END TREATMENT AT SIDEWALK OR MEDIAN

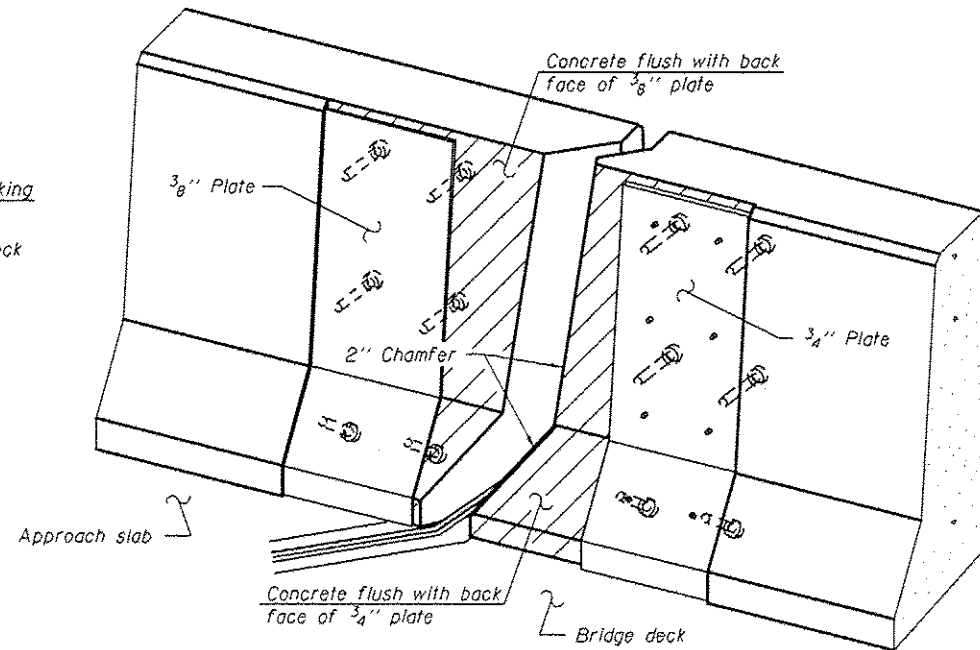
Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.



SECTION A-A



SECTION B-B



TRIMETRIC VIEW
(Showing back plates only)

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.

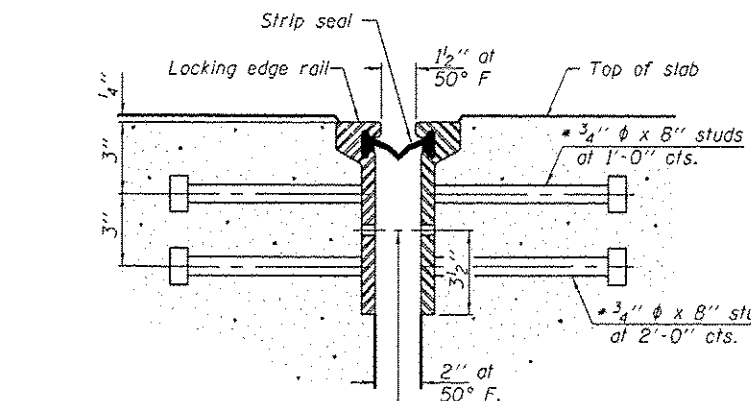
The manufacturer's recommended installation methods shall be followed.

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.

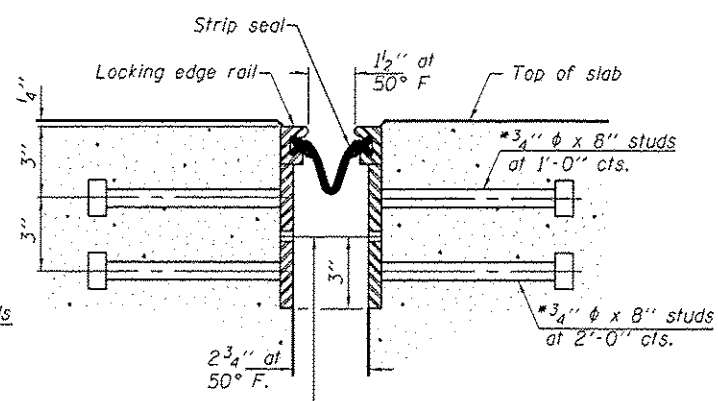
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

Maximum space between rail segments shall be 3/16", sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.

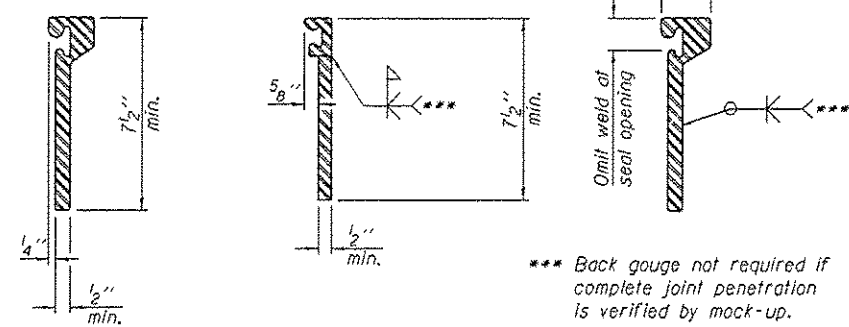
Parapet plates and anchorage studs for skews $> 30^\circ$ included in the cost of Preformed Joint Strip Seal.



SECTION THRU ROLLED RAIL JOINT



SECTION THRU WELDED RAIL JOINT



ROLLED EXTRUDED RAIL WELDED RAIL

*** 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.

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.

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

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	92

EJ-SSJ 1-27-12

DESIGNED - SMR	EXAMINED - <i>Timothy A. Daulton</i>	DATE - AUGUST 18, 2014	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PREFORMED JOINT STRIP SEAL SN 060-0031 (E.B.)	F.A.I. RTE. - 70	SECTION - 60-(11.12)RS-3	COUNTY - MADISON	TOTAL SHEETS - 242	SHEET NO. - 200	
CHECKED - TLC	PASSED - <i>Carl Perry</i>						CONTRACT NO. 76F13			
DRAWN - Kyla M. Stafford							SHEET NO. 5 OF 8 SHEETS			
CHECKED - SMR							ILLINOIS FED. AID PROJECT			