

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

F.A.P. ROUTE 116 (IL. RTE. 130)
SECTION D7 HMA RESURFACING 2014-1

CONTRACT MAINTENANCE RESURFACING
CUMBERLAND COUNTY

C-97-074-13

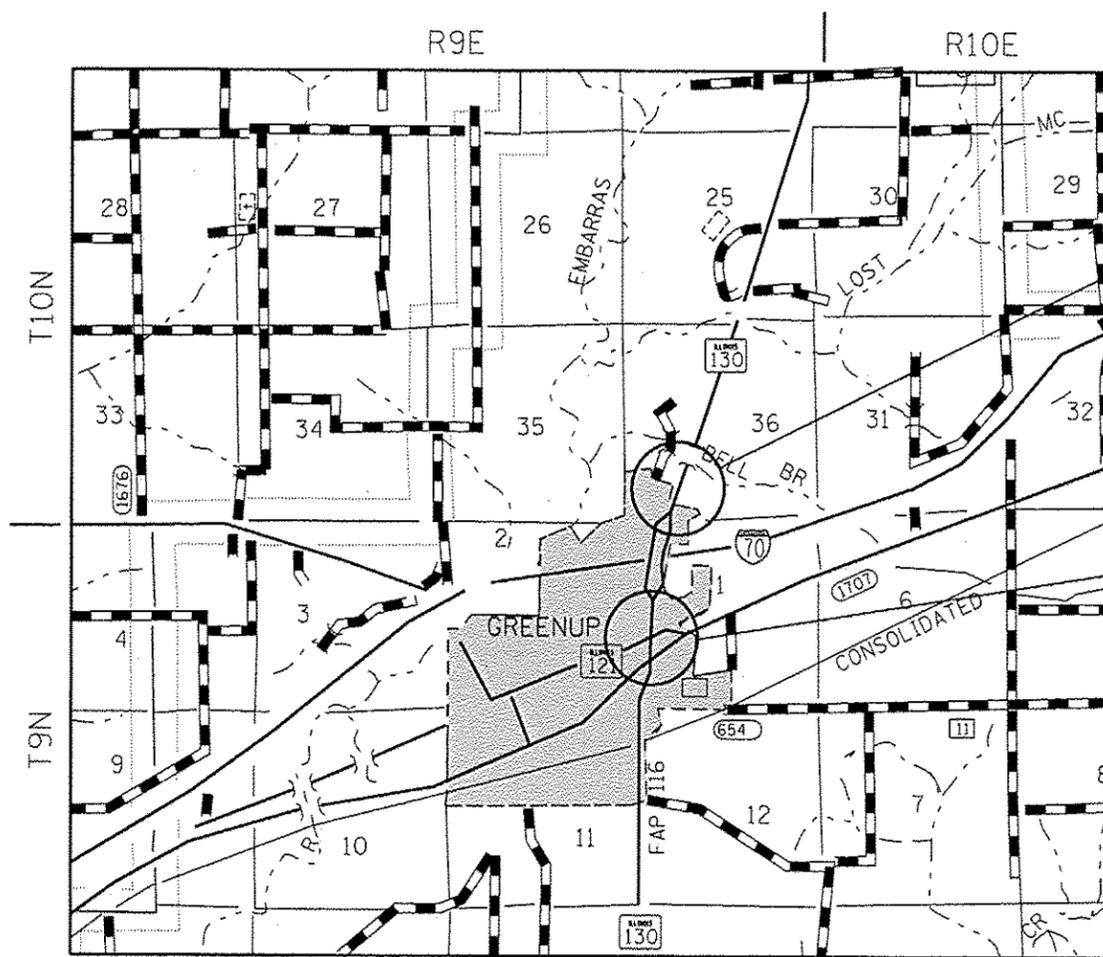
FOR INDEX OF SHEETS, SEE SHEET NO. 2

ADT = 5200

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	*	CUMBERLAND	15	1
		ILLINOIS	CONTRACT NO. 74628	

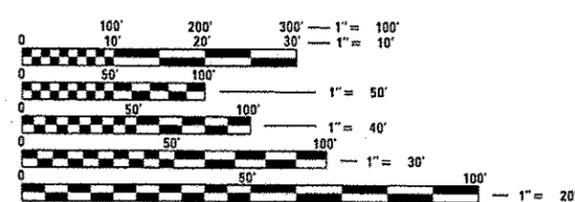
* D7 HMA RESURFACING 2014-1

D-97-028-13



PROJECT BEGINS:
STA. 436 + 00

PROJECT ENDS
STA. 469 + 60



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

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

PROJECT ENGINEER: TOM RONAN
PROJECT MANAGER: TOM RONAN
PHONE: (217)-342-8320
CONTRACT NO. 74628

GROSS LENGTH = 3,360 FT. = 0.64 MILE
NET LENGTH = 3,360 FT. = 0.64 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Sept. 26 2013
Roger L. Drishell
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Dec 6 2013
John D. Baranzoni, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

Dec 6 2013
Omer Osman, P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SHEET NO.	ITEM
1	COVER SHEET
2	INDEX OF SHEETS AND GENERAL NOTES
3-4	SUMMARY OF QUANTITIES
5-6	TYPICAL SECTIONS
7-8	SCHEDULES OF QUANTITIES
9-11	PLAN SHEETS
12-15	PAVEMENT MARKING DETAILS

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED AFTER SHEET NO. 15:

STD. NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
442201-03	CLASS C AND D PATCHES
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-03	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS >= 45 MPH
701311-03	LANE CLOSURE 2L, 2W, MOVING OPERATIONS - DAY ONLY
701336-06	LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES, FOR SPEEDS >= 45 MPH
701456-03	PARTIAL RAMP CLOSURE, FREEWAY/EXPRESSWAY
701901-03	TRAFFIC CONTROL DEVICES
780001-04	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

GENERAL NOTES

THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS; THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2012; AND THE SPECIAL PROVISIONS INCLUDED IN THE PROPOSAL.

THIS PROJECT IS LOCATED ON FAP ROUTE 116 (IL 130) IN CUMBERLAND COUNTY, FROM 0.2 MILES NORTH OF I-70 AT THE GREENUP INTERCHANGE TO ILLINOIS ROUTE 121 IN GREENUP. THE WORK INCLUDED IN SECTION 07 HMA RESURFACING 2014-1 CONSISTS OF PAVEMENT PATCHING, MILLING, HOT-MIX ASPHALT RESURFACING, PAVEMENT MARKING, AND ANY OTHER WORK NECESSARY TO COMPLETE THE SECTION. THE HMA SURFACE REMOVAL AND RESURFACING ON THE FOUR INTERCHANGE RAMPS INCLUDES THE SHOULDERS. THERE IS NO SHOULDER WORK ON ILLINOIS ROUTE 130.

PAVEMENT MARKING SHALL BE APPLIED IN ACCORDANCE WITH SECTION 780 OF THE STANDARD SPECIFICATIONS. SHORT TERM PAVEMENT MARKING SHALL BE APPLIED TO THE HOT-MIX ASPHALT BINDER COURSE AND HOT-MIX ASPHALT SURFACE COURSE AS SPECIFIED IN SECTION 703 OF THE STANDARD SPECIFICATIONS. TEMPORARY TAPE SHALL BE USED ON THE SURFACE COURSE.

THE TOTAL QUANTITY OF THERMOPLASTIC PAVEMENT MARKING-LINE 4" CONSISTS OF 7,186 FEET OF WHITE AND 5,786 FEET OF YELLOW.

THE TOTAL QUANTITY OF THERMOPLASTIC PAVEMENT MARKING-LINE 6" CONSISTS OF 452 FEET OF WHITE.

GENERAL NOTES (Cont' d)

THE TOTAL QUANTITY OF THERMOPLASTIC PAVEMENT MARKING-LINE 24" CONSISTS OF 183 FEET OF WHITE.

THE TOTAL QUANTITY OF THERMOPLASTIC PAVEMENT MARKING-LETTERS AND SYMBOLS CONSISTS OF 63 SQUARE FEET OF WHITE.

THE TOTAL QUANTITY OF RAISED REFLECTIVE PAVEMENT MARKERS IS 19 ONE-WAY CRYSTAL AND 13 TWO-WAY AMBER.

THE EXISTING PAVEMENT SHALL BE PATCHED IN ACCORDANCE WITH SECTION 442 OF THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS. THE QUANTITY OF PATCHING SHOWN ON THE PLANS IS AN ESTIMATE. THE FINAL LOCATIONS AND QUANTITY SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE INTENT OF THE HOT-MIX ASPHALT SURFACE REMOVAL IS TO REMOVE ALL HOT-MIX ASPHALT DOWN TO ORIGINAL BARE CONCRETE PAVEMENT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD FOR HOT-MIX ASPHALT SURFACE REMOVAL, 4 1/4". THERE MAY BE SOME VARIATIONS IN THE THICKNESS OF HOT-MIX ASPHALT. ANY VARIATIONS IN THICKNESS WILL NOT BE CAUSE FOR ADJUSTMENT OF UNIT PRICES FOR THIS WORK. CORES WERE TAKEN TO DETERMINE PAVEMENT AND RESURFACING THICKNESSES

THE PAY ITEM TEMPORARY RAMP HAS BEEN INCLUDED FOR THE CONSTRUCTION OF TEMPORARY RAMPS IN ACCORDANCE WITH ARTICLE 406.08 OF THE STANDARD SPECIFICATIONS. THE COST SHALL INCLUDE BOTH THE INSTALLATION AND THE REMOVAL OF THE TEMPORARY RAMPS.

THE RESIDENT ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE CURING TIME FOR THE VARIOUS HOT-MIX ASPHALT LIFTS.

VIBRATORY ROLLERS IN DYNAMIC MODE WILL NOT BE PERMITTED WITHIN THE CORPORATE LIMITS OF GREENUP. DENSITY REQUIREMENTS MUST STILL BE MET.

THE CONTRACTOR SHALL PROVIDE INTERNET ACCESSIBILITY TO THE HOT-MIX ASPHALT PLANT QUALITY CONTROL LAB SO THAT HOT-MIX ASPHALT PLANT REPORTS CAN BE E-MAILED TO THE DISTRICT HEADQUARTERS. THIS WORK SHALL BE INCLUDED IN THE COST OF ALL HOT-MIX ASPHALT ITEMS.

THE CONTRACTOR SHALL USE EITHER RC-70, SS1H, OR SS-1HP. APPLIED AT THE RATE DETERMINED BY THE ENGINEER, FOR THE PAY ITEM BITUMINOUS MATERIALS (PRIME COAT).

A UNIFORMLY STRAIGHT SAW CUT SHALL BE MADE AT LOCATIONS WHERE PROPOSED NEW CONSTRUCTION WILL ABUT EXISTING HOT-MIX ASPHALT SURFACES. THE SAW CUT SHALL BE MADE FULL DEPTH THROUGH THE EXISTING SURFACE. THIS WORK WILL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT ITEMS INVOLVED AND NO EXTRA COMPENSATION WILL BE ALLOWED.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USE:	BINDER COURSE (2 3/4")
APPLICATION:	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90
PG GRADE:	SBS PG 76-22
DESIGN AIR VOIDS:	4.0% @ NDESIGN = 90
MIXTURE COMPOSITION:	IL-19.0
FRICTION AGGREGATE:	N/A

MIXTURE USE:	SURFACE COURSE (1 1/2")
APPLICATION:	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90
PG GRADE:	SBS PG 76-22
DESIGN AIR VOIDS:	4.0% @ NDESIGN = 90
MIXTURE COMPOSITION:	IL-9.5
FRICTION AGGREGATE:	MIXTURE D

MIXTURE USE:	CLASS D PATCHING
APPLICATION:	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70
PG GRADE:	PG 64-22
DESIGN AIR VOIDS:	4.0% @ NDESIGN = 70
MIXTURE COMPOSITION:	IL-19.0
FRICTION AGGREGATE:	N/A

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN THE CALCULATING PLAN QUANTITIES:

BITUMINOUS MATERIALS (PRIME COAT)	0.10 GAL/SQ YD
AGGREGATE (PRIME COAT)	4 LBS/SQ YD
HOT-MIX ASPHALT	112 LBS/SQ YD/INCH

• 07 HMA RESURFACING 2014-1

FILE NAME *	USER NAME * steffanmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS AND GENERAL NOTES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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	PLOT SCALE * 100.0000 "/ IN.	CHECKED -	REVISED -			CONTRACT NO. 74628					
Default	PLOT DATE * 10/15/2013	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

100% STATE

100% STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0005		
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	1324	1324		
40600300	AGGREGATE (PRIME COAT)	TON	26	26		
40600990	TEMPORARY RAMP	SQ YD	1119	1119		
40603240	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	TON	2040	2040		
40603545	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	TON	1113	1113		
44000166	HOT-MIX ASPHALT SURFACE REMOVAL, 4 1/4"	SQ YD	12770	12770		
44201815	CLASS D PATCHES, TYPE II, 14 INCH	SQ YD	112	112		
44201819	CLASS D PATCHES, TYPE III, 14 INCH	SQ YD	36	36		
44201821	CLASS D PATCHES, TYPE IV, 14 INCH	SQ YD	187	187		
67100100	MOBILIZATION	L SUM	1	1		
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1		
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0005		
70100825	TRAFFIC CONTROL AND PROTECTION, STANDARD 701456	L SUM	1	1		
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	5	5		
70300100	SHORT TERM PAVEMENT MARKING	FOOT	1242	1242		
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	63	63		
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	12972	12972		
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	452	452		
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	183	183		
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	205	205		
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	63	63		
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	12972	12972		
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	452	452		
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	170	170		

* SPECIALTY ITEM

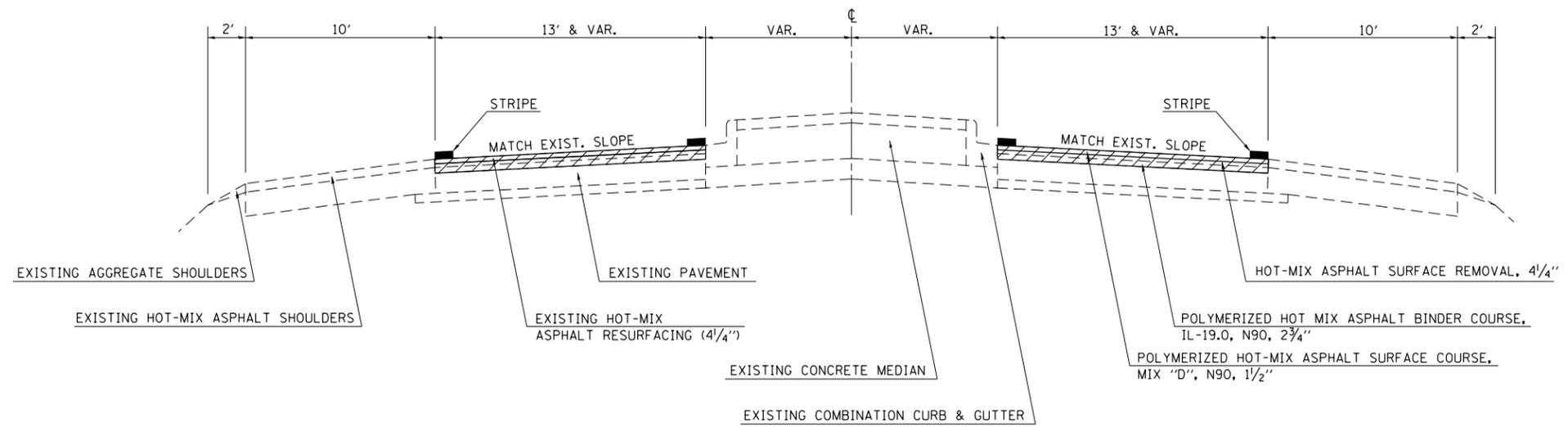
* D7 HMA RESURFACING 2014-1

FILE NAME :	USER NAME : staffennk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 1/8"=1'-0"		CHECKED -	REVISED -		SCALE: N/A	SHEET 1 OF 2 SHEETS	STA.	TO STA.	CONTRACT NO. 74628		
Default	PLOT DATE = 10/15/2013	DATE -	REVISED -		ILLINOIS FED. AID PROJECT						

24

TYPICAL CROSS SECTION

STATION 436+00 TO STATION 459+50

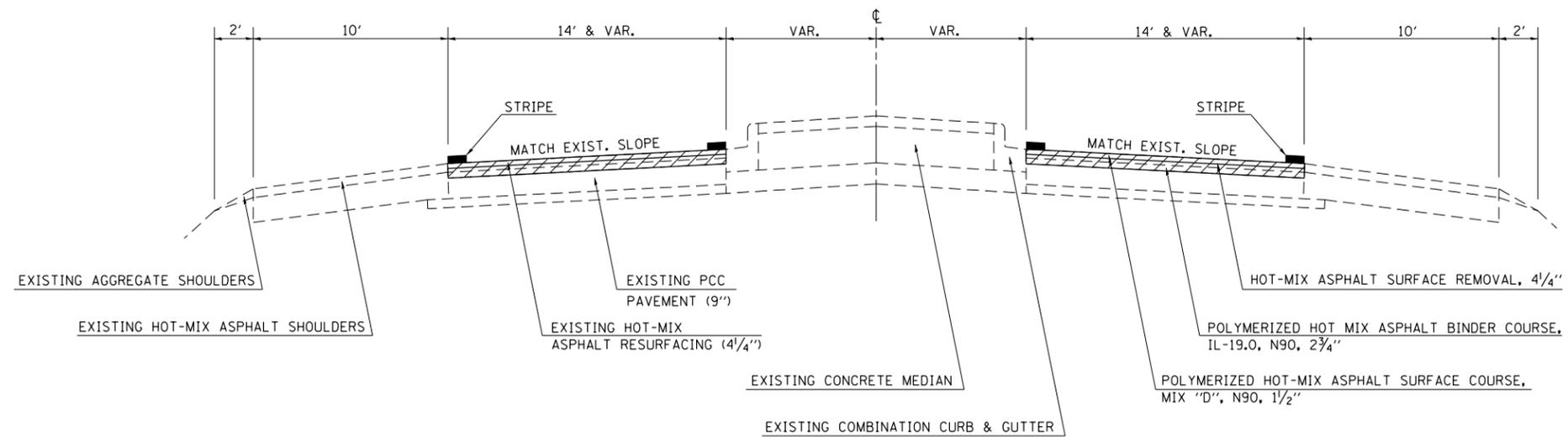


HOT-MIX ASPHALT SURFACE REMOVAL, 4 1/4"

NOTE: NOT TO SCALE

TYPICAL CROSS SECTION

STATION 459+50 TO STATION 462+25



HOT-MIX ASPHALT SURFACE REMOVAL, 4 1/4"

NOTE: NOT TO SCALE

• D7 HMA RESURFACING 2014-1

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

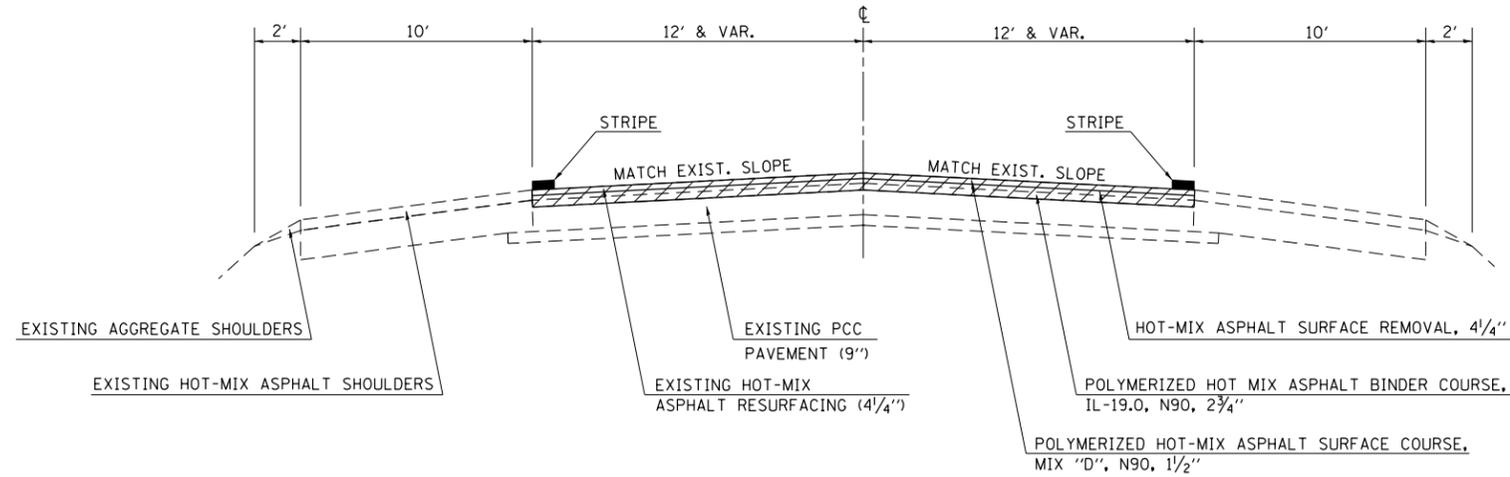
TYPICAL CROSS SECTIONS

SCALE: N/A SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	•	CUMBERLAND	15	5
CONTRACT NO. 74628				
ILLINOIS FED. AID PROJECT				

TYPICAL CROSS SECTION

STATION 462+25 TO STATION 465+15

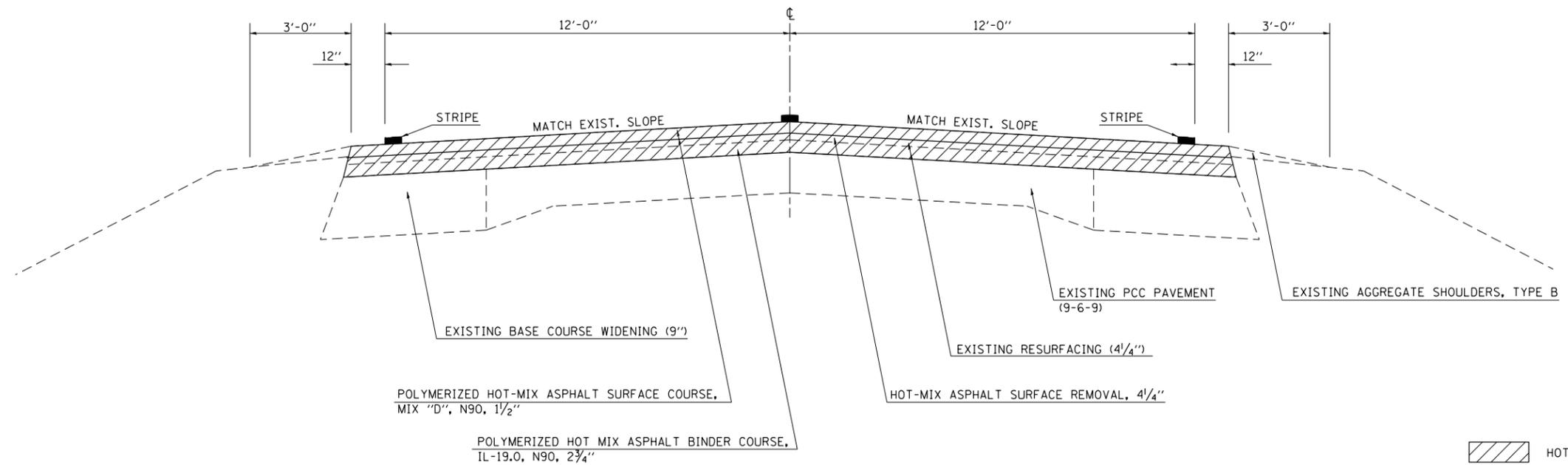


 HOT-MIX ASPHALT SURFACE REMOVAL, 4 1/4"

NOTE: NOT TO SCALE

TYPICAL CROSS SECTION

STATION 465+15 TO STATION 471+25



 HOT-MIX ASPHALT SURFACE REMOVAL, 4 1/4"

NOTE: NOT TO SCALE

• D7 HMA RESURFACING 2014-1

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL CROSS SECTIONS

SCALE: N/A SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	•	CUMBERLAND	15	6
CONTRACT NO. 74628				
ILLINOIS FED. AID PROJECT				

RESURFACING SCHEDULE

STATION TO STATION	LENGTH FOOT	AVERAGE PAVEMENT WIDTH FOOT	AREA SQ YD	HOT-MIX ASPHALT SURFACE REMOVAL, 4 1/4" SQ YD	BITUMINOUS MATERIALS (PRIME COAT) GALLON	AGGREGATE (PRIME COAT) TON	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90 TON	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 TON	TEMPORARY RAMP SQ YD
ILLINOIS 130									
436+00.00 TO 438+63.00	263.0	29.0	847	847	85	1.7	71	131	106.9
438+63.00 TO 443+35.00	472.0	28.0	1468	1468	147	2.9	123	226	
443+35.00 TO 444+33.00	98.0	43.0	468	468	47	0.9	39	72	
444+33.00 TO 446+64.00	231.0	40.0	1027	1027	103	2.1	86	158	
446+64.00 TO 449+15.00	251.0	34.0	948	948	95	1.9	80	146	106.9
449+15.00 TO 451+52.00	237.0	OMISSION							
451+52.00 TO 453+90.00	238.0	34.0	899	899	90	1.8	76	139	106.9
453+90.00 TO 456+40.00	250.0	40.0	1111	1111	111	2.2	93	171	
456+40.00 TO 457+35.00	95.0	47.0	496	496	50	1.0	42	76	
457+35.00 TO 459+50.00	215.0	29.0	693	693	69	1.4	58	107	
462+25.00 TO 465+15.00	290.0	27.0	870	870	87	1.7	73	134	
465+15.00 TO 471+25.00	610.0	26.0	1762	1762	176	3.5	148	271	106.9
INTERCHANGE RAMPS									
EB OFF RAMP	60.0	VAR	381	381	38	0.8	32	59	134.4
EB ON RAMP	85.0	VAR	296	296	30	0.6	25	46	98.7
WB OFF RAMP	80.0	VAR	423	423	42	0.8	36	65	113.1
WB ON RAMP	92.0	VAR	304	304	30	0.6	26	47	98.7
ILLINOIS 121									
WEST APPROACH	110.0	VAR	698	698	70	1.4	59	108	123.3
EAST APPROACH	75.0	VAR	554	554	55	1.1	47	85	123.3
TOTALS	3752.0		13246	13246	1324	26	1113	2040	1119

• D7 HMA RESURFACING 2014-1

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 10/15/2013	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								

PAVEMENT MARKING SCHEDULE

STATION TO STATION	LENGTH FOOT	THERMOPLASTIC PAVEMENT MARKING - LINE 4" FOOT	THERMOPLASTIC PAVEMENT MARKING - LINE 6" FOOT	THERMOPLASTIC PAVEMENT MARKING - LINE 24" FOOT	THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS SQ FT	TEMPORARY PAVEMENT MARKING - LINE 4" FOOT	TEMPORARY PAVEMENT MARKING - LINE 6" FOOT	TEMPORARY PAVEMENT MARKING - LINE 24" FOOT	TEMPORARY PAVEMENT MARKING - LETTERS & SYMBOLS SQ FT	SHORT-TERM PAVEMENT MARKING FOOT	WORK ZONE PAVEMENT MARKING REMOVAL SQ FT	RAISED REFLECTIVE PAVEMENT MARKER EACH
436+00.00 TO 437+06.00	106.0	424				424				24	4	2
437+06.00 TO 438+63.00	157.0	571				571						
438+63.00 TO 443+35.00	472.0	1888				1888						
443+35.00 TO 444+33.00	98.0	196				196						
444+33.00 TO 446+51.00	218.0	872	218		31.2	872	218		31.2	40	7	5
446+51.00 TO 449+15.00	264.0	1056				1056						
449+15.00 TO 451+52.00	237.0	948				948						
451+52.00 TO 454+06.00	254.0	1016				1016						
454+06.00 TO 456+40.00	234.0	936	234		31.2	936	234		31.2	48	8	6
456+40.00 TO 457+35.00	95.0	190				190						2
457+35.00 TO 459+50.00	215.0	860				860						
459+50.00 TO 462+25.00	275.0	1100				1100				55	9	3
462+25.00 TO 466+00.00	375.0	1219				1219				75	12	5
466+00.00 TO 471+25.00	525.0	810		25.0		810		25.0		76	13	6
INTERCHANGE RAMPS												
EB OFF RAMP	60.0	187		37.3		187		37.3		204	34	
EB ON RAMP	85.0	201				201						
WB OFF RAMP	80.0	228		37.5		228		37.5		225	37	
WB ON RAMP	92.0	224				224						
ILLINOIS 121												
WEST APPROACH	110.0	28		40.5		28		40.5		243	40	2
EAST APPROACH	75.0	19		42.0		19		42.0		252	42	1
TOTALS		12972	452	183	63	12972	452	183	63	1242	205	32

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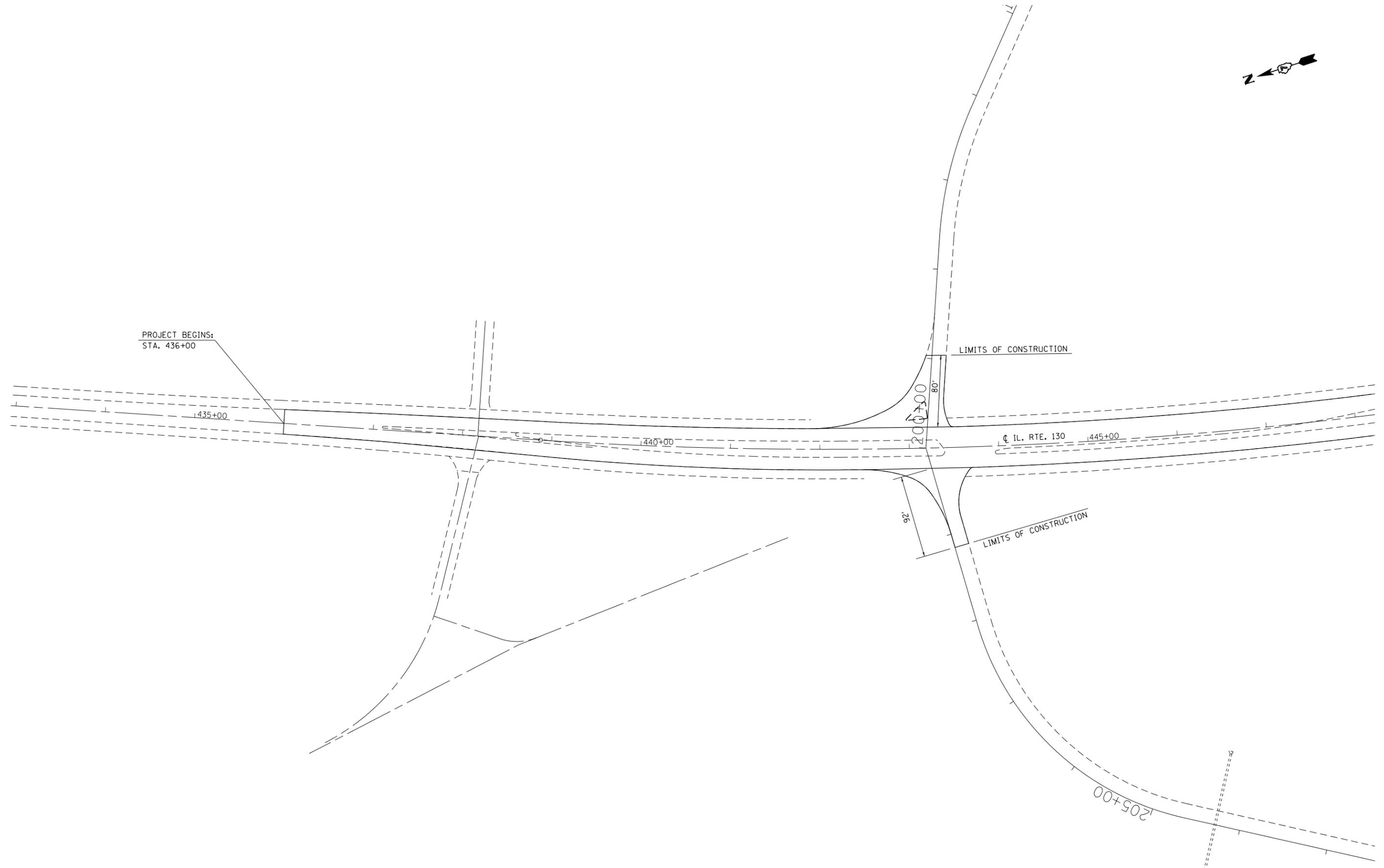
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: N/A SHEET 2 OF 2 SHEETS STA. TO STA.

• D7 HMA RESURFACING 2014-1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	*	CUMBERLAND	15	8
CONTRACT NO. 74628			ILLINOIS FED. AID PROJECT	



• D7 HMA RESURFACING 2014-1

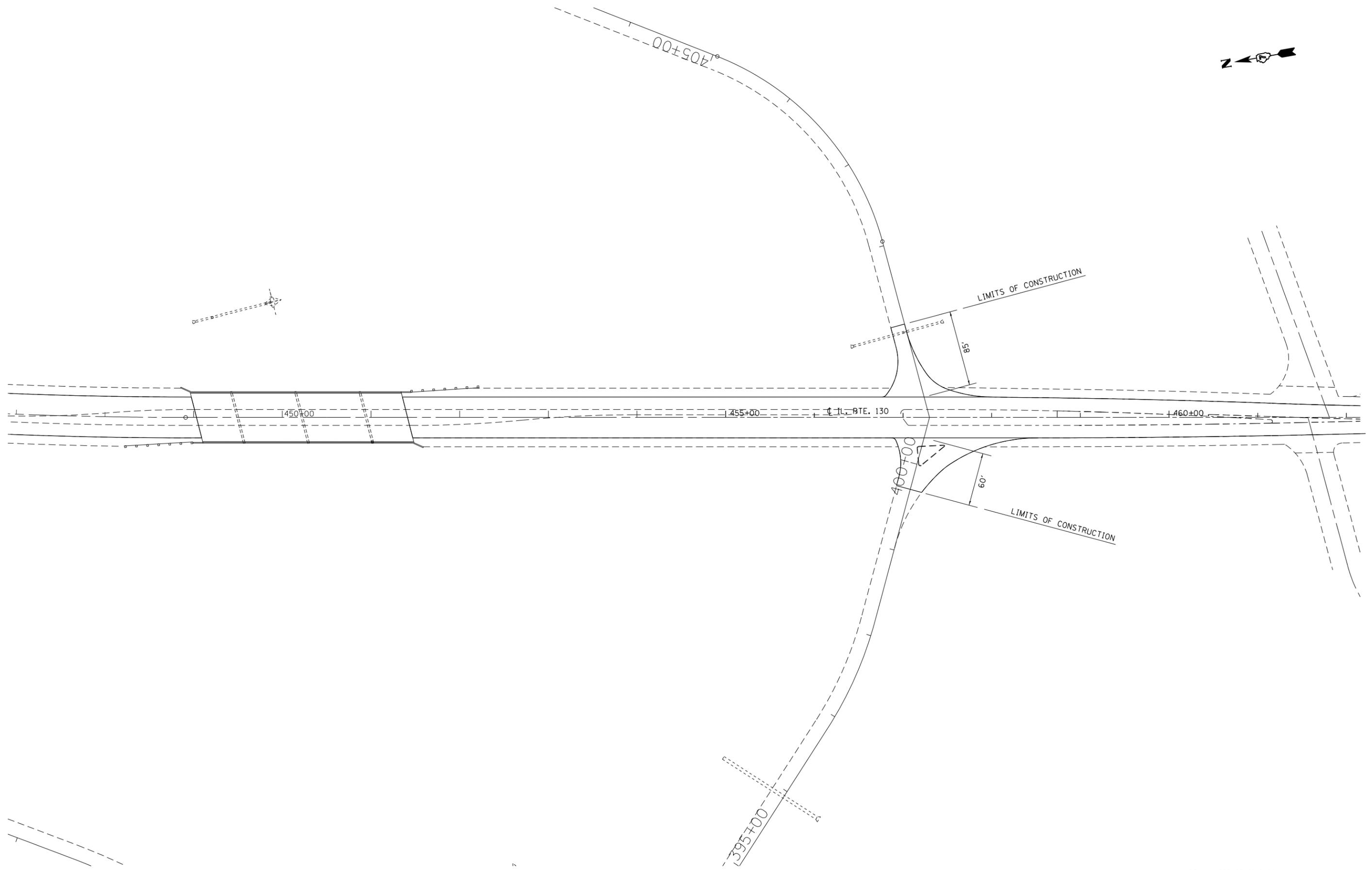
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	PLOT DATE = 10/15/2013	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN

SCALE: 50 SHEET 1 OF 3 SHEETS STA. 436+00 TO STA. 448+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	•	CUMBERLAND	15	9
CONTRACT NO. 74628			ILLINOIS FED. AID PROJECT	



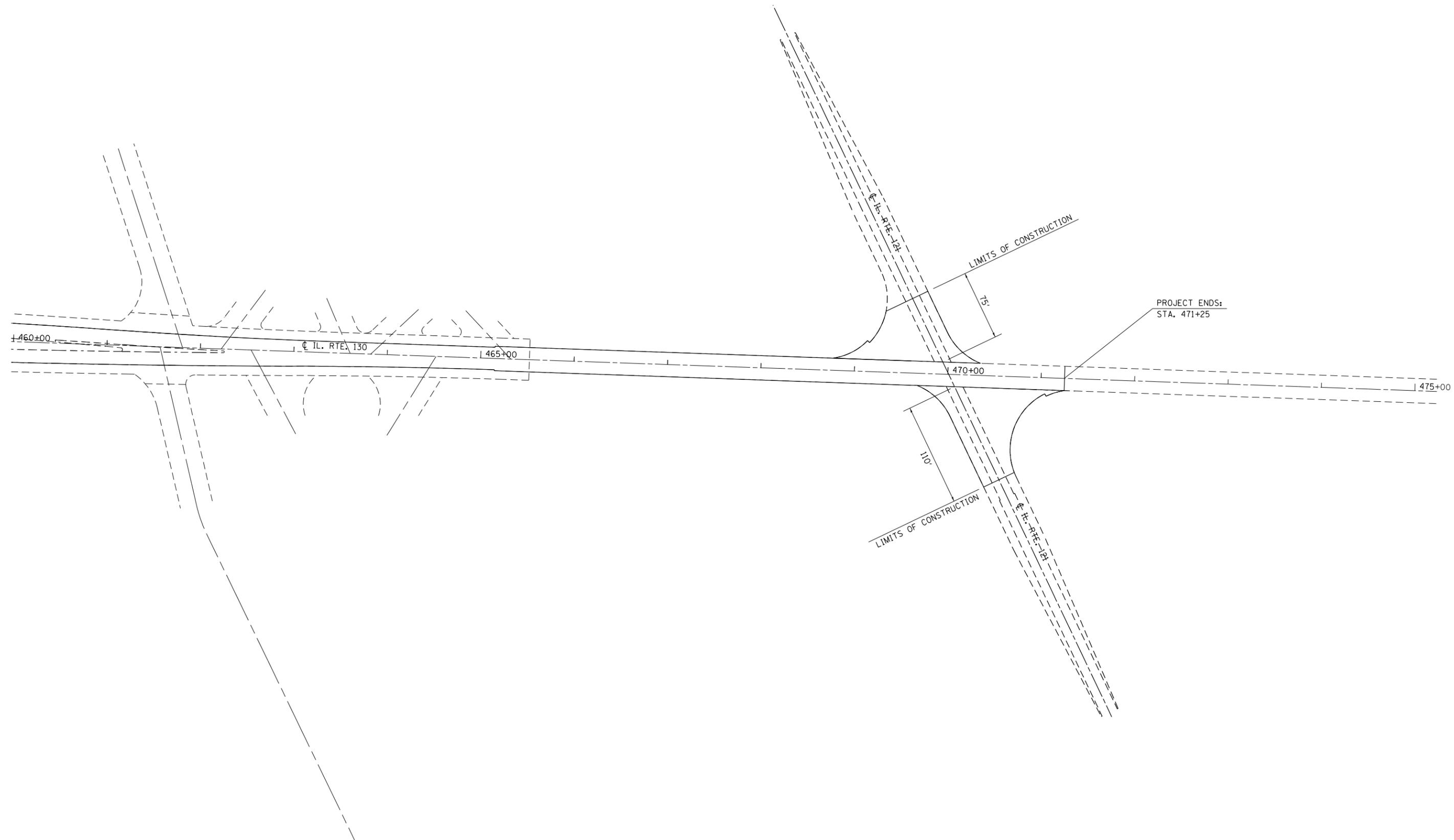
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	PLOT DATE = 10/15/2013	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN

SCALE: 50 SHEET 2 OF 3 SHEETS STA. 447+00 TO STA. 462+00

• D7 HMA RESURFACING 2014-1				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	•	CUMBERLAND	15	10
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74628	



• D7 HMA RESURFACING 2014-1

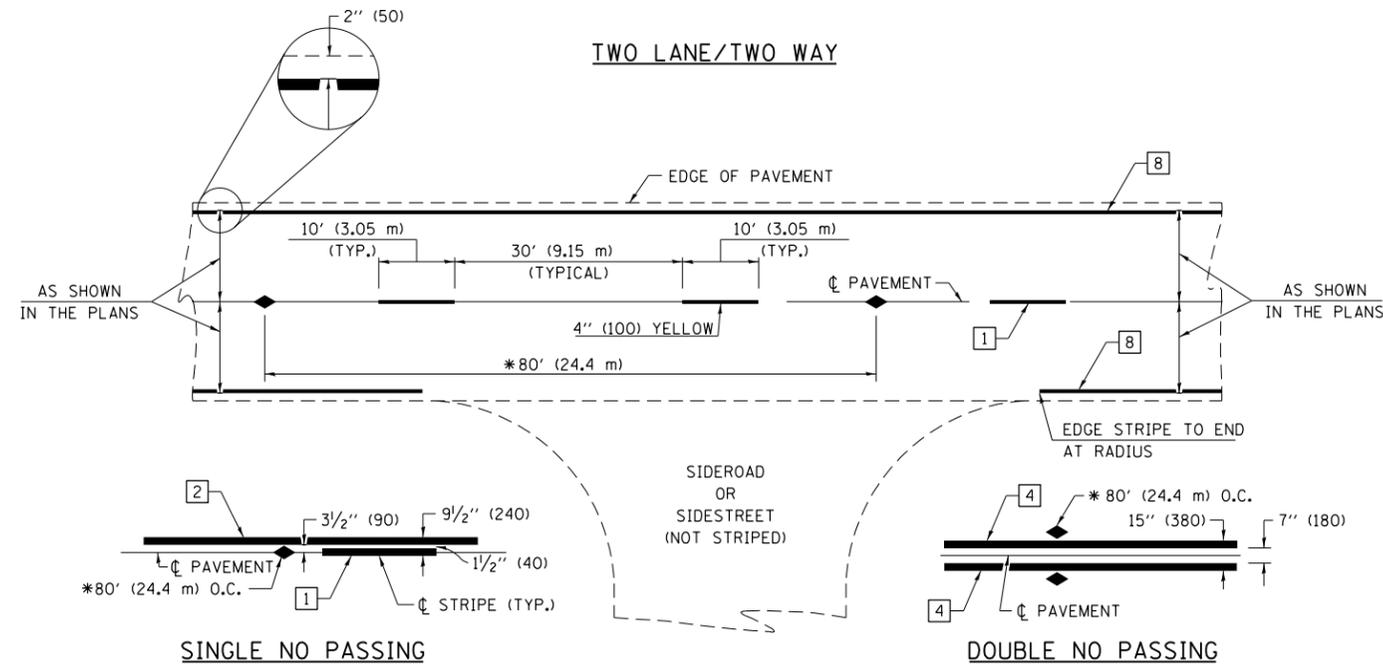
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN

SCALE: 50 SHEET 3 OF 3 SHEETS STA. 460+00 TO STA. 469+60

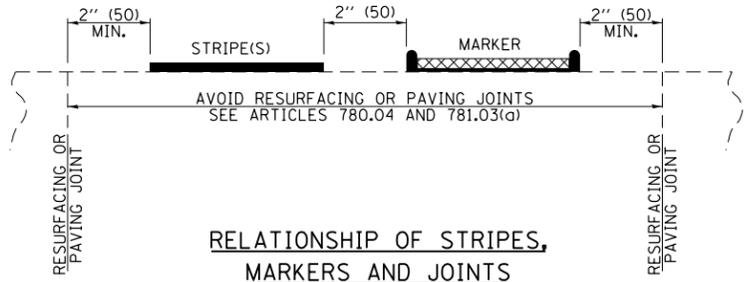
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	•	CUMBERLAND	15	11
CONTRACT NO. 74628			ILLINOIS FED. AID PROJECT	



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

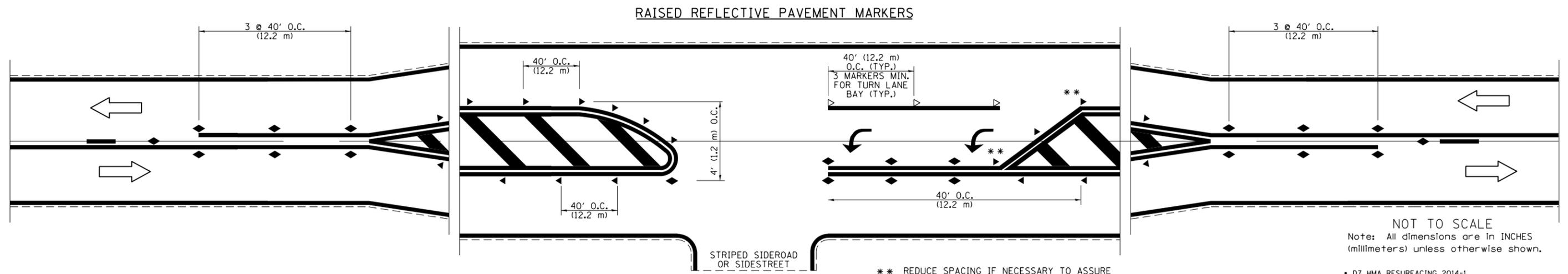
PAVEMENT MARKING LEGEND

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



TYPICAL PAVEMENT MARKERS LEGEND

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



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

• D7 HMA RESURFACING 2014-1

DISTRICT 7 DETAIL NO. 7800001

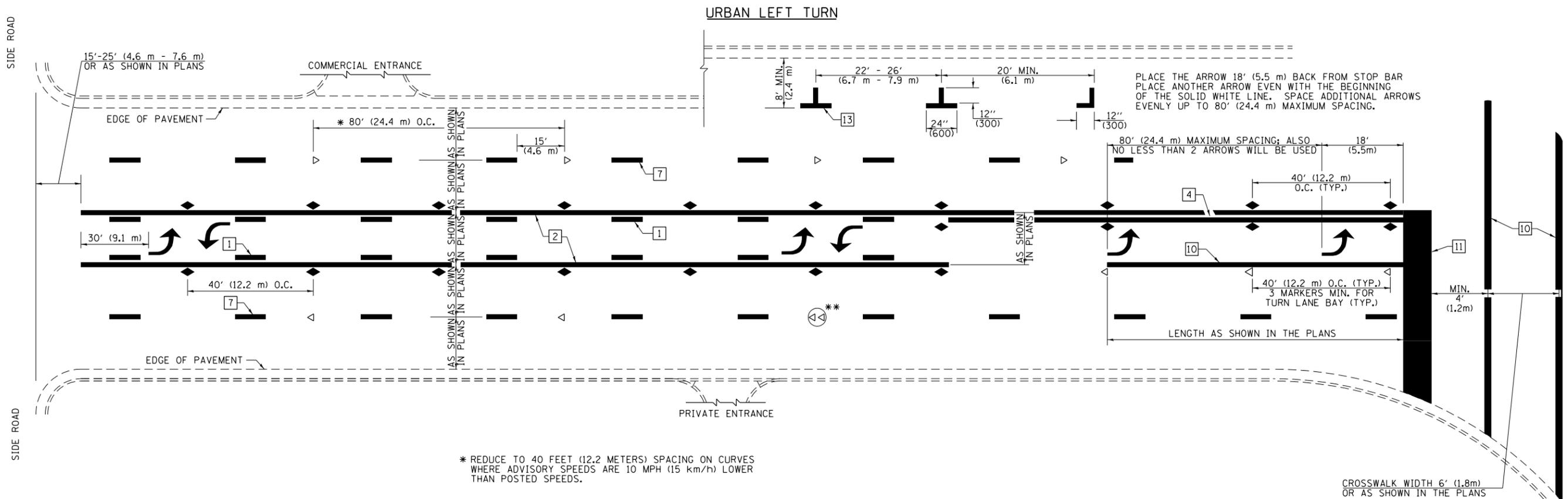
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	PLOT DATE = 10/15/2013	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

SCALE: N/A SHEET NO. 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	•	CUMBERLAND	15	12
CONTRACT NO. 74628				
ILLINOIS FED. AID PROJECT				



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

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

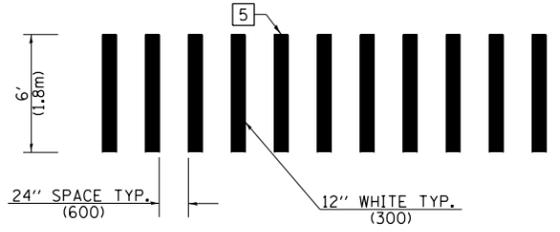
** DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED
AND SPACED AS SHOWN IN HIGHWAY STANDARD
781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED
HIGHWAYS.

PAVEMENT MARKING LEGEND

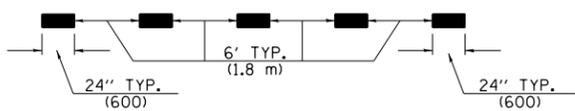
- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 12" (300) SOLID WHITE
- 6 RESERVED
- 7 6" (150) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP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

GENERAL NOTES

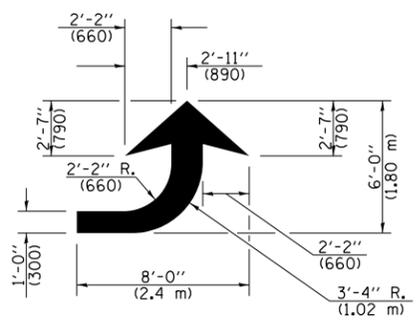
1. TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE. USE A MINIMUM OF TWO PAIRS PER BLOCK.
2. THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT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



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

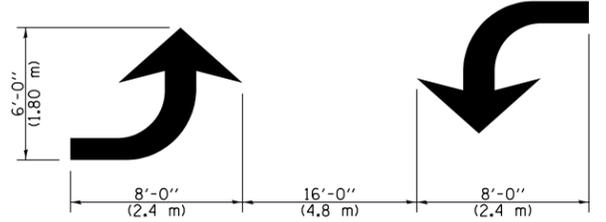


LANE LINE EXTENSIONS



LEFT ARROW

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



**TYPICAL DOUBLE
TURN ARROWS (WHITE)**

NOT TO SCALE

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

• D7 HMA RESURFACING 2014-1

DISTRICT 7 DETAIL NO. 7800001

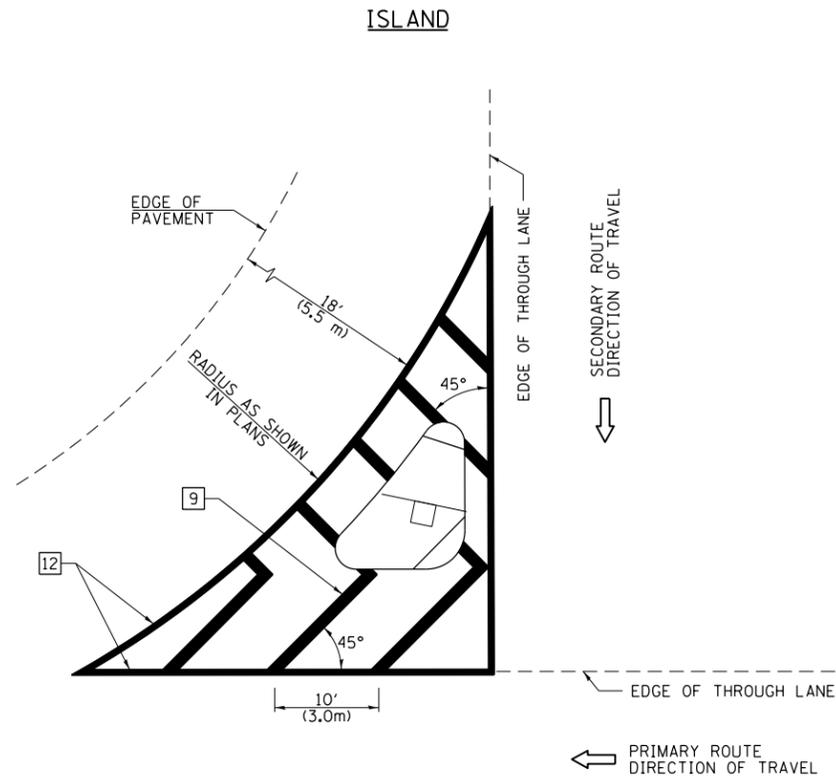
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	PLOT DATE = 10/15/2013	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

SCALE: N/A SHEET NO. 2 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116		CUMBERLAND	15	13
CONTRACT NO. 74628				
ILLINOIS FED. AID PROJECT				

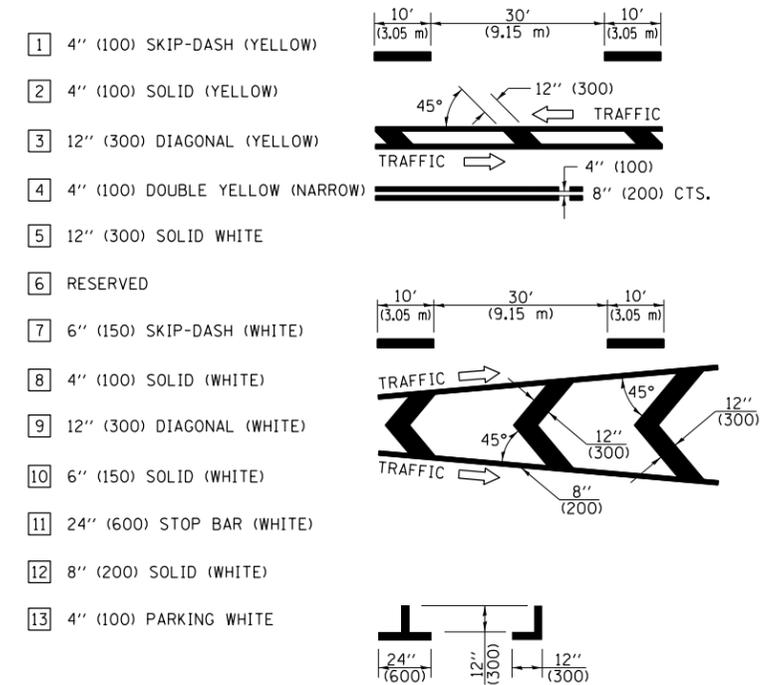


GENERAL NOTES

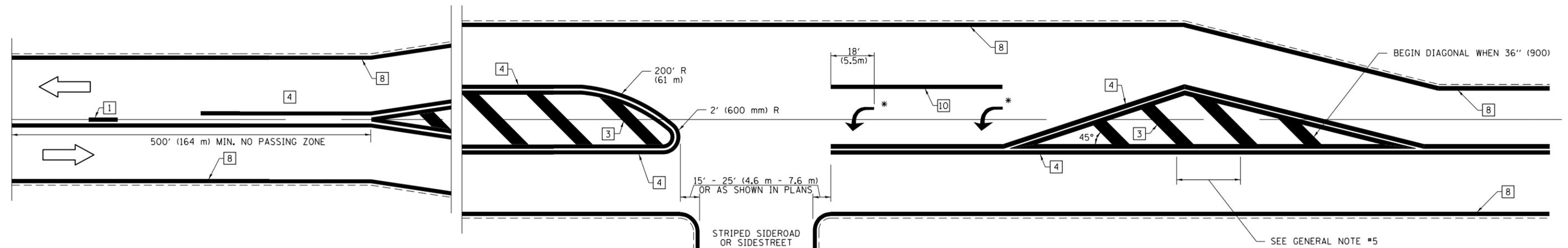
1. RAISED AND CORRUGATED MEDIANS SHALL BE OUTLINED WITH [2] IF PRESENT.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING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

< 30 MPH (< 50 km/h)	15' (4.5 m)
30-45 MPH (50-75 km/h)	20' (6.0 m)
> 45 MPH (> 75 km/h)	30' (9.0 m)

PAVEMENT MARKING LEGEND



RURAL LEFT TURN STRIPING



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

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

• D7 HMA RESURFACING 2014-1

DISTRICT 7 DETAIL NO. 7800001

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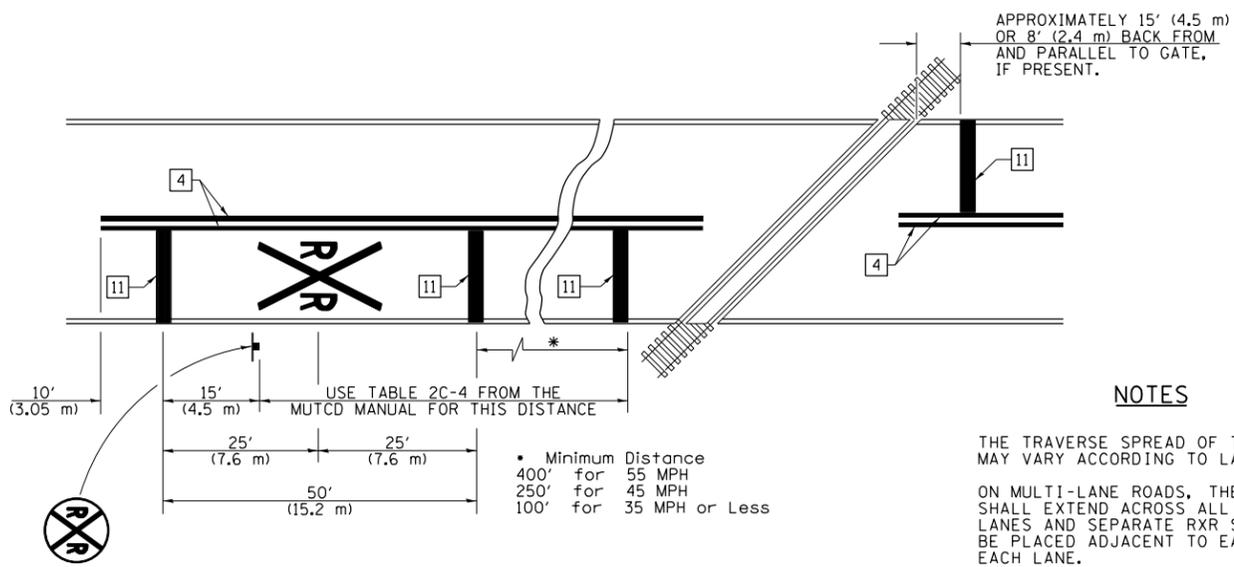
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

SCALE: N/A SHEET NO. 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	•	CUMBERLAND	15	14
CONTRACT NO. 74628				
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING

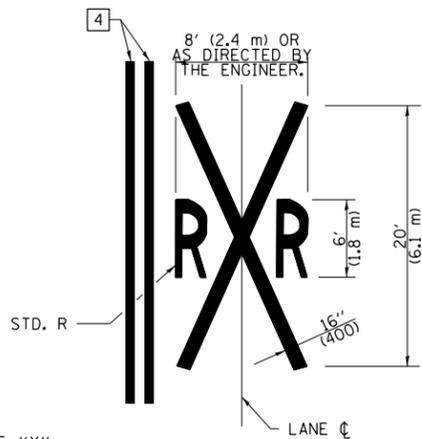


NOTES

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

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

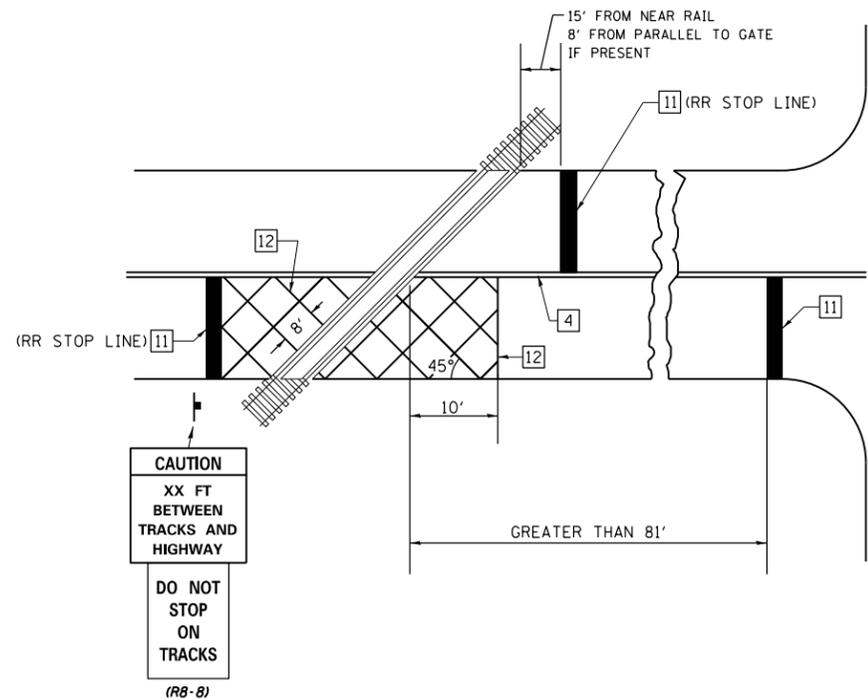
WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.



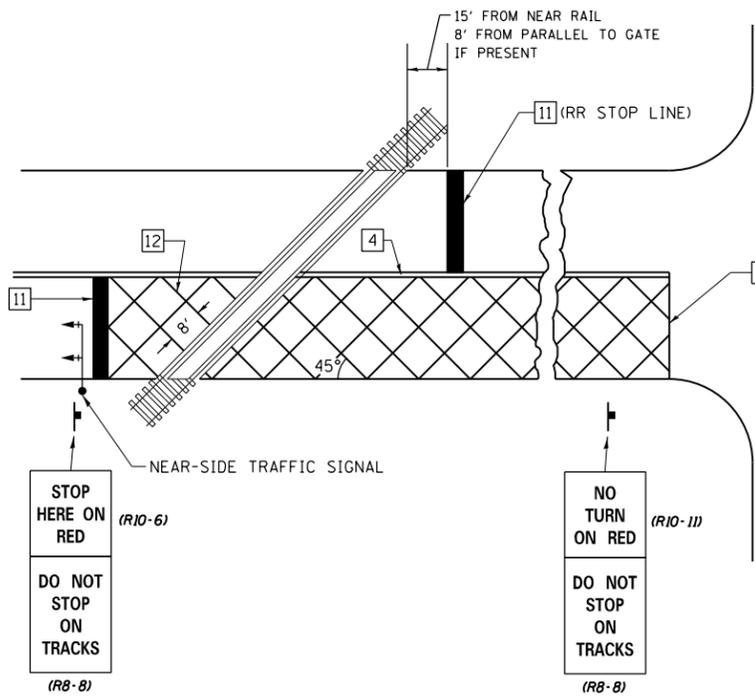
PAVEMENT MARKING LEGEND

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

RAILROAD CROSSING WITH INTERCONNECT ONLY



RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



GENERAL NOTES

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

SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

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

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

SCALE: N/A SHEET NO. 4 OF 4 SHEETS STA. TO STA.

• D7 HMA RESURFACING 2014-1

DISTRICT 7 DETAIL NO. 7800001				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116		CUMBERLAND	15	15
			CONTRACT NO. 74628	
ILLINOIS FED. AID PROJECT				