

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
500	116 RS	VERMILION	15	1
		ILLINOIS	CONTRACT NO. 70F62	

**PROPOSED
HIGHWAY PLANS**

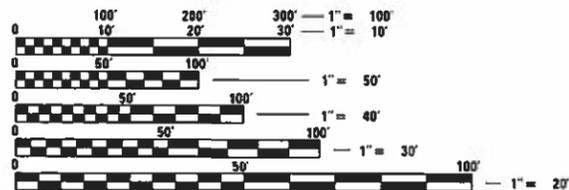
FOR INDEX OF SHEETS SEE SHEET NO. 2
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 3 TO 4

FAS RTE. 500 / (BOWMAN AVE)

2022 ADT = 2,000
PV % = 88.50%
SU % = 5.50%
MU % = 6.00%

FAS ROUTE 500 (BOWMAN AVE)
SECTION 116 RS
STANDARD OVERLAY
VERMILION COUNTY

FUNCTIONAL CLASSIFICATION
MINOR ARTERIAL

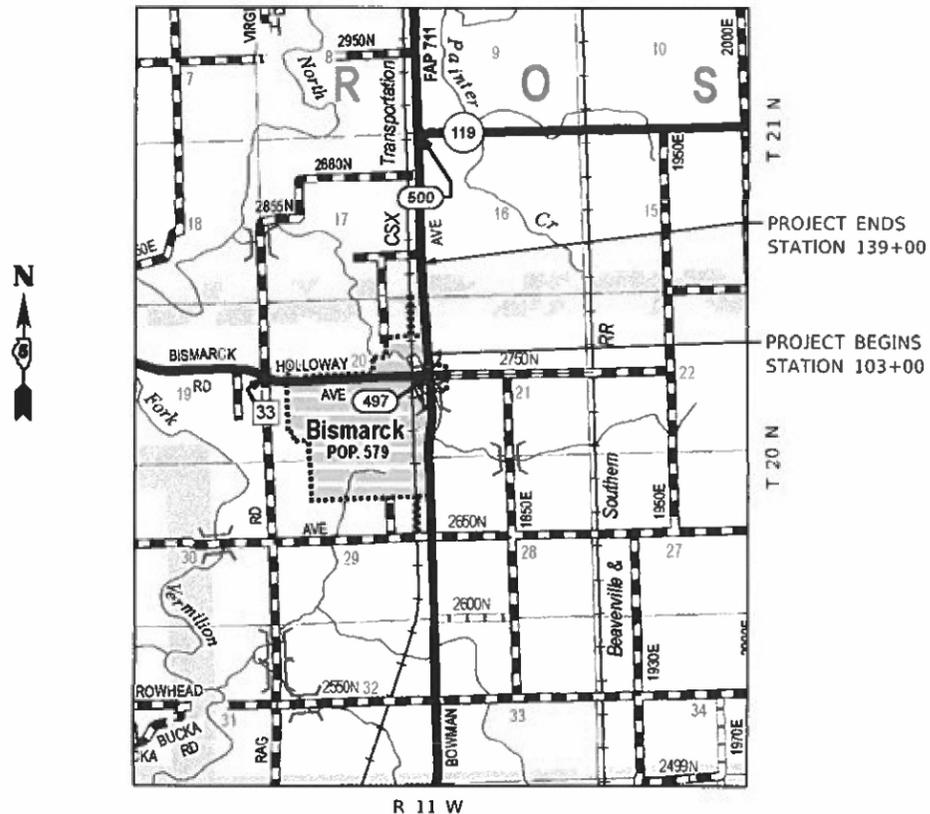


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS
1-800-892-0123
OR 811 SOUTH ROSS & NEWELL TOWNSHIP

PROJECT ENGINEER: RYAN CARROLL
SQUAD LEADER: SAMUEL MEGLI
PHONE NUMBER: 217-465-4181
CONTRACT NO. 70F62

C-95-025-22
CHICAGO AVE TO HOLLOWAY ST AT BISMARCK



GROSS LENGTH = 3,600.00 FT. = 0.682 MILE
NET LENGTH = 3,600.00 FT. = 0.682 MILE



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 1/25 2022
Kenil A. Barnett 3002 REGIONAL ENGINEER

March 25 2022
[Signature] ENGINEER OF DESIGN AND ENVIRONMENT

March 2 2022
Stephen M. Fair 2 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

<u>DESCRIPTION</u>	<u>SHEET NO.</u>
COVER	1
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GENERAL NOTES

G.N.-100A
ELECTRONIC FILES AND/OR ELECTRONIC SURVEY INFORMATION INCLUDING CADD FILES WILL NOT BE AVAILABLE TO THE CONTRACTOR.

G.N.-105.09A
ALL ELEVATIONS SHOWN IN THE PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. (NAVD 88)

G.N. -406H

MIXTURE REQUIREMENTS

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

LOCATION(S):	BOWMAN AVE
MIXTURE USE(S):	MAINLINE SURFACE
AC/PG:	PG 64-22
DESIGN AIR VOIDS	4.0% @ NDFS=50
MIXTURE COMP (GRADATION)	IL-9.5
FRICTION AGGREGATE	MIX C
MIXTURE WEIGHT	112
QUALITY MANAGEMENT PROGRAM	QC/QA
SUBLOT SIZE	N.A.
MATERIAL TRANSFER DEVICE (REQUIRED ?)	NO

G.N.- 703A
SHORT TERM PAVEMENT MARKING SHALL BE APPLIED TO THE PAVEMENT AFTER ANY OF THE FOLLOWING: COLD MILLING AND/OR PLACING BITUMINOUS MATERIALS (TACK COAT), LEVELING BINDER (MACHINE METHOD), BINDER AND SURFACE COURSES. SHORT TERM PAVEMENT MARKING PLACED ON THE SURFACE SHALL COINCIDE WITH THE FINAL PAVEMENT STRIPING. SHORT TERM PAVEMENT MARKING PLACED PRIOR TO THE SURFACE SHALL COINCIDE WITH THE EXISTING PAVEMENT MARKINGS. USE 4 FEET PER 40 FEET (OR 10% PER STATION).

G.N.- 781
THE FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING THE RAISED REFLECTIVE PAVEMENT MARKERS.

LIST OF STANDARDS

<u>STANDARD NO.</u>	<u>DESCRIPTION</u>
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-04	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS \geq 45
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701901-08	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

COMMITMENTS

THERE ARE NO COMMITMENTS FOR THIS CONTRACT

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, LIST OF STANDARDS,
GENERAL NOTES & COMMITMENTS**

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
500	116 RS	VERMILION	15	2
CONTRACT NO. 70F62				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

LOCATION OF WORK: FAS 500 (BOWMAN AVE)
 MINOR ARTERIAL
 RURAL
 103+00.00
 139+00.00
 VERMILION COUNTY

FUNDING BREAKOUT: 100% STATE
 CONSTRUCTION TYPE CODE: 0005

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY QUANTITY
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	4320	4320
40600370	LONGITUDINAL JOINT SEALANT	FOOT	3600	3600
40600990	TEMPORARY RAMP	SQ YD	28	28
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	806	806
40800029	BITUMINOUS MATERIALS (TACK COAT)	POUND	335	335
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	16	16
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	9600	9600
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	173	173
67100100	MOBILIZATION	L SUM	1	1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	720	720
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	240	240
70300221	TEMPORARY PAVEMENT MARKING - LINE 4" - PAINT	FOOT	8100	8100
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	8100	8100

* DENOTES SPECIALTY ITEM

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

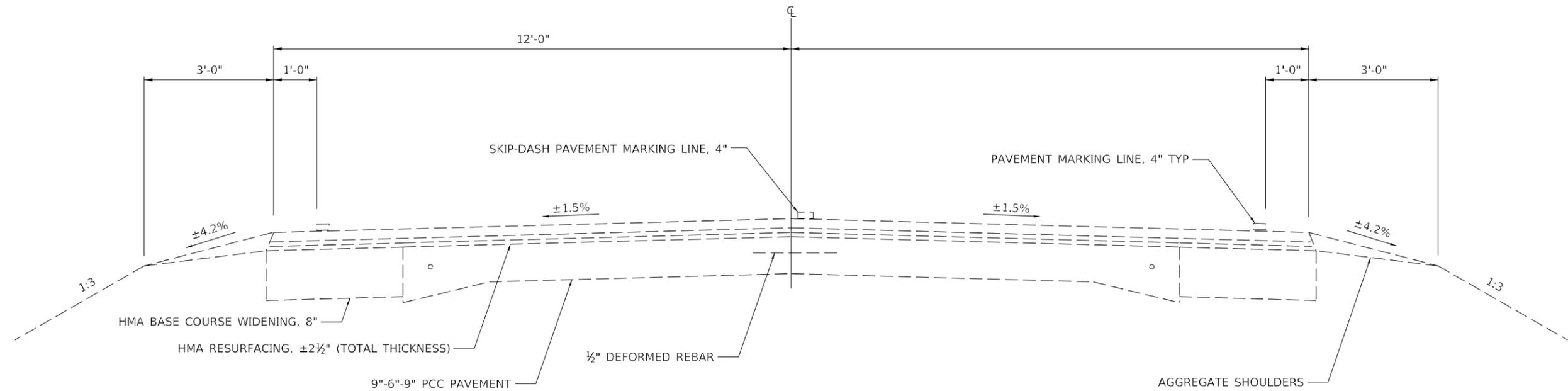
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
500	116 RS	VERMILION	15	3
CONTRACT NO. 70F62				
ILLINOIS FED. AID PROJECT				

EXISTING TYPICAL SECTION F.A.S 500

STATION TO STATION

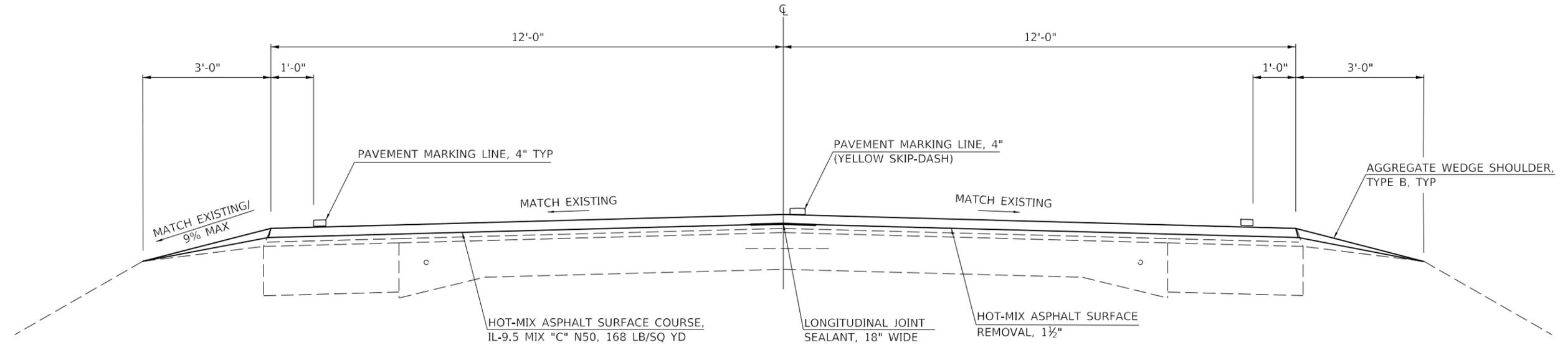
103+00 TO 139+00



PROPOSED TYPICAL SECTION F.A.S 500

STATION TO STATION

103+00 TO 139+00



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL CROSS-SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
500	116 RS	VERMILION	15	5
CONTRACT NO. 70F62				
ILLINOIS FED. AID PROJECT				

RESURFACING SCHEDULE															
STA	TO	STA	LENGTH FT	BEGIN WIDTH FT	END WIDTH FT	AVERAGE WIDTH FT	PAVING AREA SQ FT	TACK COAT ON MILLED SURFACE (0.05 LB/SQ FT)	SURFACE THICK. IN	MILLING THICK. IN	40600290	40600370	40604050	44000155	48102100
											BITUMINOUS MATERIALS (TACK COAT) POUND	LONGITUDINAL JOINT SEALANT FOOT	HMA SURFACE COURSE IL-9.5, MIX "C", N50 TON	HMA SURFACE REMOVAL 1 1/2" SQ YD	AGGREGATE WEDGE SHOULDER, TYPE B TON
103+00.00	TO	139+00.00	3,600	24.00	24.00	24.00	86,400.00	4,320	1.50	1.50	4,320	3,600	806	9,600	171
TOTALS =											4,320	3,600	806	9,600	171

48102100 QUANTITIES CONTINUE IN INCIDENTAL SCHEDULE

TEMPORARY RAMPS SCHEDULE								
STA	DIRECTION	LOCATION	REASON FOR RAMP	RAISE(+) / DROPOFF (-)		RAMP LENGTH FT	RAMP WIDTH FT	40600990
				IN	IN			TEMPORARY RAMP SQ YD
* 103+00.00	BOTH	SOUTHERN PROJECT LIMITS	MILLED 1.50"	-1.50		5	24	14
* 139+00.00	BOTH	NORTHERN PROJECT LIMITS	MILLED 1.50"	-1.50		5	24	14
TOTAL =								28

* 1:40 TAPER

INCIDENTAL HMA SURFACING - ENTRANCES SCHEDULE									
STA	LT/RT	DESCRIPTION	ENTRANCE MATERIAL	HMA SURFACE AREA SQ FT	AVERAGE THICKNESS IN	48102100	40800029	40800050	48102100
						HMA SURFACE REMOVAL, SPECIAL SQ YD	BITUMINOUS MATERIALS (TACK COAT) POUND	INCIDENTAL HMA SURFACING TON	AGGREGATE WEDGE SHOULDER, TYPE B TON
103+79	RT	F.E.	HMA	130	1.5	15	33	2	0.2
104+07	LT	F.E.	HMA	130	1.5	15	33	2	0.2
108+83	LT	F.E.	HMA	130	1.5	15	33	2	0.2
123+92	RT	F.E.	HMA	130	1.5	15	33	2	0.2
129+25	LT	P.E.	HMA	410	1.5	46	103	4	0.5
136+10	LT	C.E.	HMA	400	1.5	45	100	4	0.5
TOTALS =						151	335	16	2

48102100 QUANTITIES CONTINUE IN RESURFACING SCHEDULE

PAVEMENT MARKING SCHEDULE														
STA	TO	STA	LENGTH FT	NO. LINES	COLOR	MARKING TYPE	LINE TYPE	DESCRIPTION	70300100			70300150	PAINT PAVEMENT MARKING - LINE 4"	
									SHORT TERM PAVEMENT MARKING			SHORT TERM PAVEMENT MARKING REMOVAL	YELLOW	WHITE
									NO. LINE	NO. APPL.	FT	SQ FT	FT	
103+00.00	TO	139+00.00	3,600.00	1	YELLOW	PAINT	SKIP-DASH		1	2	720	240	900	
103+00.00	TO	139+00.00	3,600.00	1	WHITE	PAINT	SOLID	NB OUTSIDE						3,600
103+00.00	TO	139+00.00	3,600.00	1	WHITE	PAINT	SOLID	SB OUTSIDE						3,600
COLOR TOTALS =													900	7,200
TOTALS =											720	240		8,100

RAISED REFLECTIVE PAVEMENT MARKER SCHEDULE									
LOCATION	STA	TO	STA	LENGTH FT	SPACING FT	NUMBER	COLOR	78100100	78300200
								TWO-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKER EACH	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL EACH
CENTERLINE	103+00.00	TO	139+00.00	3,600	80	1	AMBER	45	45
TOTALS =								45	45

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

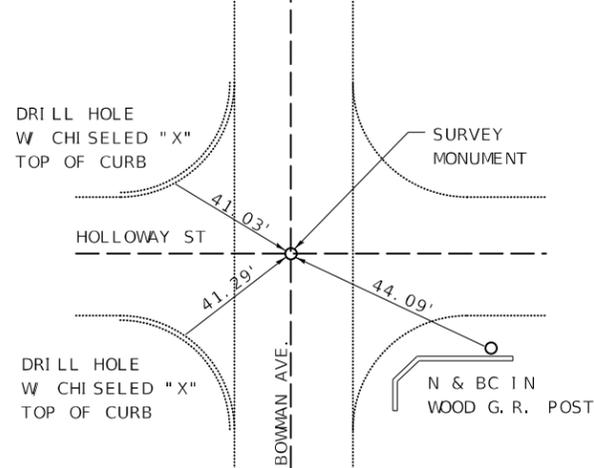
SCHEDULES OF QUANTITIES

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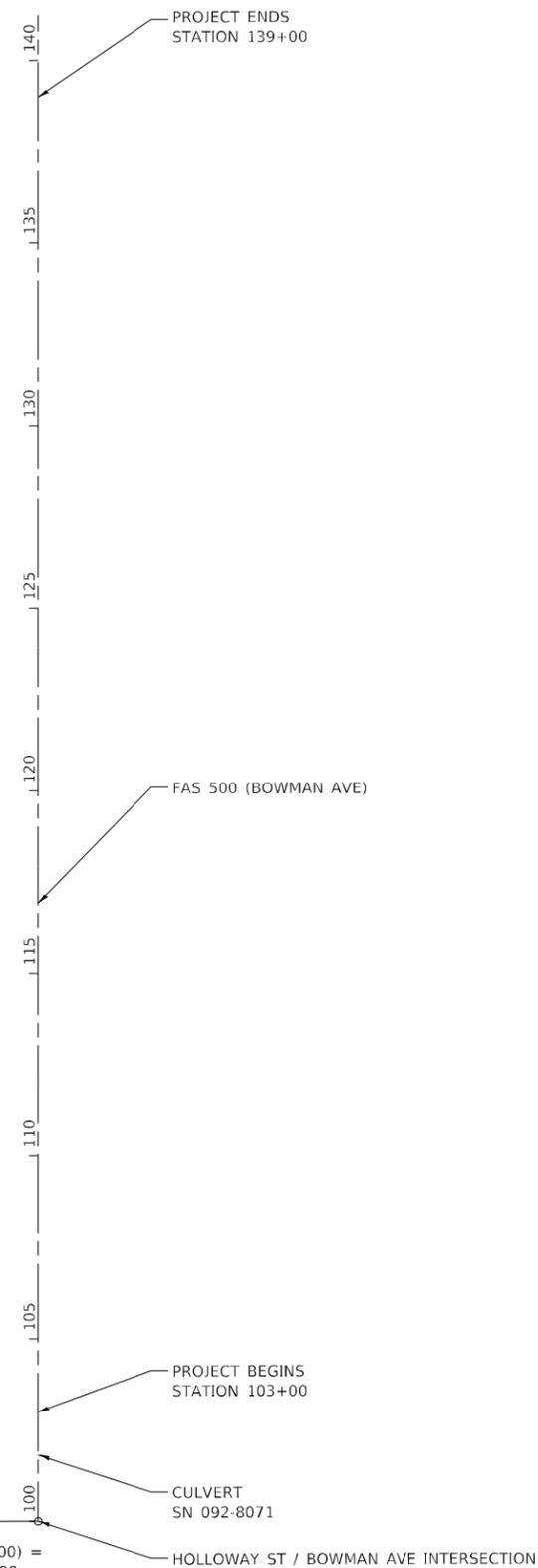
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
500	116 RS	VERMILION	15	6
CONTRACT NO. 70F62				
ILLINOIS FED. AID PROJECT				

TIES TO P.I.
(FAS 500 & HOLLOWAY ST)

STATION 142+32.62 (CH 15)
STATION 269+42.93 (BK) (FAS 500) =
STATION 100+00.00 (AH) (FAS 500)



PI STATION EQUATION:
STATION 142+32.62 (CH 15)
STATION 269+42.93 (BK) (FAS 500) =
STATION 100+00.00 (AH) (FAS 500)



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES, AND BENCHMARKS

SCALE: NA SHEET NO. 1 OF 1 SHEETS STA. 100+00 TO STA. 140+00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
500	116 RS	VERMILION	15	7
CONTRACT NO. 70F62				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

1. THE EXISTING SURFACE SHALL BE PREPARED IN ACCORDANCE WITH SECTION 408 OF THE STANDARD SPECIFICATIONS.
2. ANY NECESSARY WORK BEHIND THE HMA SHOULDER OR THE INCIDENTAL HMA SURFACING SHALL BE AS SHOWN IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.
3. EARTH EXCAVATION REQUIRED FOR THE CONSTRUCTION OF THE AGGREGATE SURFACE COURSE SHALL BE INCLUDED IN THE COST OF AGGREGATE SURFACE COURSE.
4. AGGREGATE BASE COURSE, TYPE B, 6" (150 mm) MIN. SHALL BE USED WHERE IN THE OPINION OF THE ENGINEER THERE IS NOT SUFFICIENT BASE MATERIAL FOR THE PROPOSED ENTRANCES. THIS MATERIAL SHALL GENERALLY BE USED TO WIDEN ANY EXISTING RETURN OR TO CONSTRUCT NEW ENTRANCES WHERE NONE NOW EXISTS.
5. THE AGGREGATE BASE COURSE SHALL BE CONSTRUCTED 12" (300 mm) WIDER THAN THE SURFACE DIMENSIONS AS SHOWN ABOVE.
6. EXISTING FIELD ENTRANCES OF AGGREGATE OR EARTH WITH NO HMA APRON SHALL NOT RECEIVE A NEW HMA APRON WITHOUT PROPER APPROVAL THROUGH THE BUREAU OF OPERATIONS "POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS".
7. TO ASSURE APPROPRIATE ACCESS POLICIES ARE FOLLOWED ALL NEW ACCESS SHALL BE APPLIED FOR THROUGH THE BUREAU OF OPERATIONS PERMIT APPLICATION PROCESS. PLAN PREPARATION MEMORANDUMS 40-09 ALONG WITH DISTRICT PROJECT IMPLEMENTATION MEMORANDUM 104/01 DISCUSS THIS PROCEDURE.

RURAL ENTRANCE DESIGN STANDARDS (PPM 40-09)																
DESIGN ELEMENT	NEW CONSTRUCTION & 3R with CONSTRUCTION						3R w/out RECONSTRUCTION, 3P, SMART & CM									
	NONCOMMERCIAL			FIELD W/FARM IMPLEMENTS			COMMERCIAL			NONCOMMERCIAL			COMMERCIAL			
	PRIVATE & FIELD			FIELD W/FARM IMPLEMENTS			COMMERCIAL			PRIVATE & FIELD			COMMERCIAL			
	min.	des.	max.	min.	max.	min.	des.	max.	min.	des.	max.	min.	des.	max.		
SURFACE WIDTH (FT)	12	16	24	24	30	1 LANE, 1 WAY			1 LANE, 1 WAY							
						14	16	24								
						2 LANE, 2 WAY			2 LANE, 2 WAY							
						24	30	35	resurface existing configuration; existing aggregate or earth entrances shall have the continuation of aggregate shoulders placed behind them							
RADIUS (FT)	15	25	40	30		20	30	50								
SHOULDER WIDTH (FT)	2	2		2		1	3									
SHOULDER SLOPE (%)	2	4	6	4		2	4	6								
ENTRANCE GRADE (%)	0	2 to 5	10 or 12	2 to 5	10 or 12	0	2 to 5	8 or 10								
SIDE SLOPE (FT)	1:4	1:6	1:10	1:4	1:6	1:4	1:6	1:10								
SURFACE TYPE																
INCIDENTAL HMA SURFACING (INCH)		2		2		3 or 4			taper from hma resurfacing thickness (2 1/2", 2 1/4" or 1 1/2") to 1 1/2" to minimize aggregate shoulder							
AGGREGATE SURFACE COURSE, TYPE B (INCH)		6		6		8			if applicable, use items: Preparation of Base & Aggregate Base Repair; see PPM 30-02							
PCC DRIVEWAY PAVEMENT (INCH)		6						6 or 8								

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

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FIELD ENTRANCES (NONCOMMERCIAL RURAL)

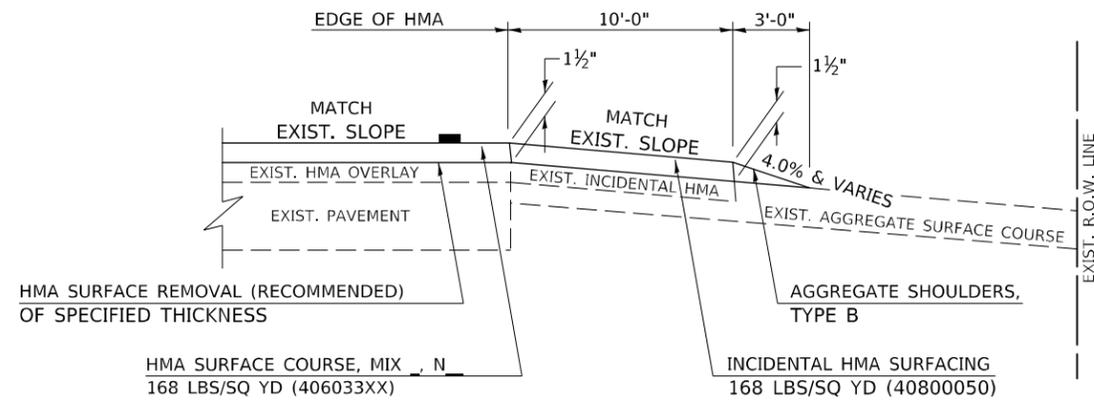
SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

DISTRICT 5 DETAIL NO. 4080050A

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
500	116 RS	VERMILION	15	9
CONTRACT NO. 70F62				
ILLINOIS FED. AID PROJECT				

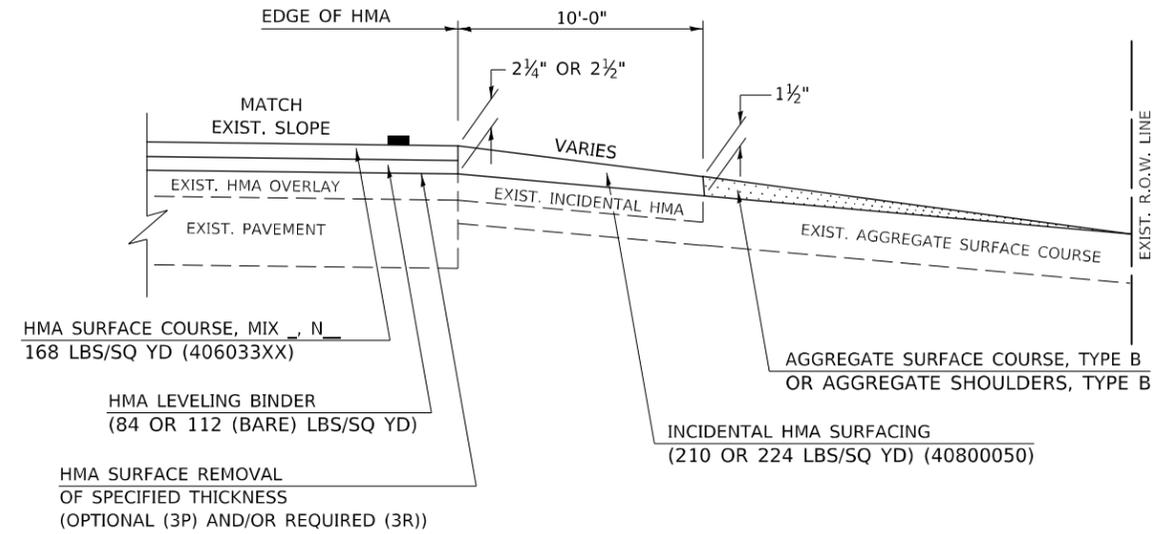
PROJECTS WITHOUT RECONSTRUCTION

S.M.A.R.T. IMPROVEMENTS (POLICY RESURFACING; BDE 53-4.03; 1½")

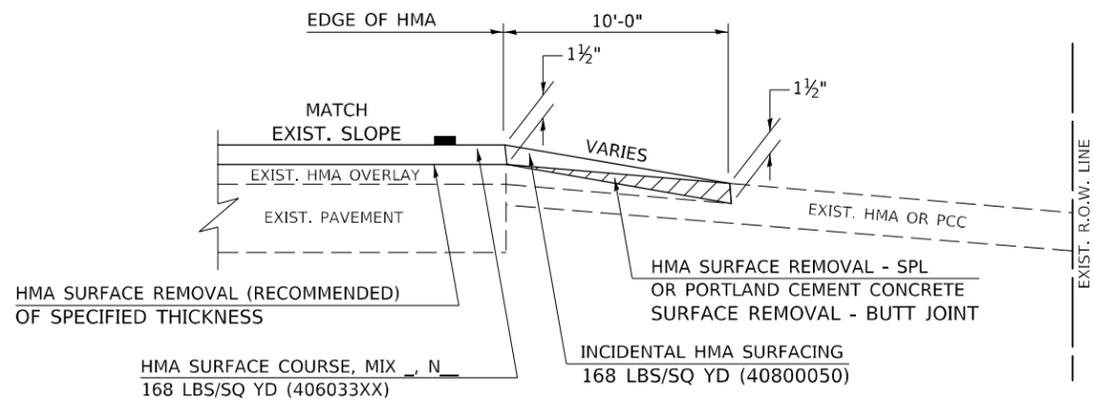


EXISTING AGGREGATE ENTRANCE

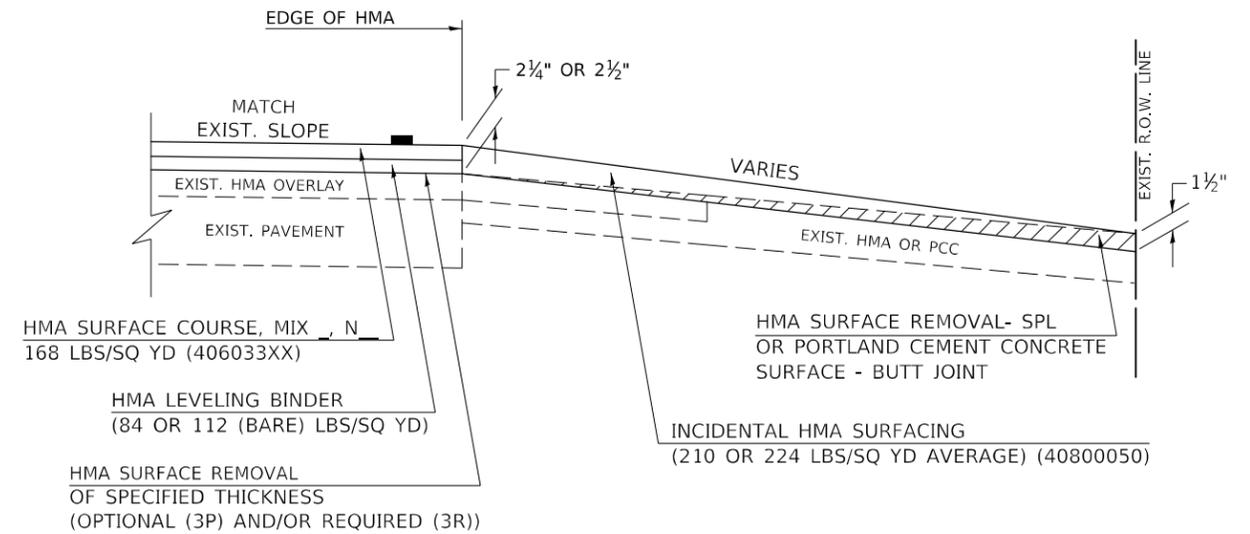
"3P" OR "3R" IMPROVEMENTS (POLICY RESURFACING; BDE 53-4.02; 2¼" OR 2½" ON BARE CONCRETE)



EXISTING AGGREGATE ENTRANCE



EXISTING HMA OR PCC ENTRANCE



EXISTING HMA OR PCC ENTRANCE

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

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PRIVATE COMMERCIAL ENTRANCES
(NONCOMMERCIAL AND COMMERCIAL RURAL)**

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

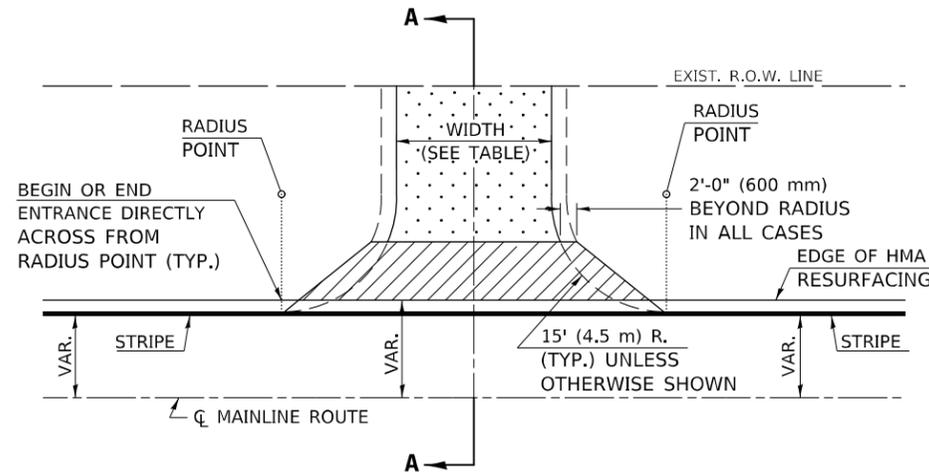
DISTRICT 5 DETAIL NO. 40800050C

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILLINOIS FED. AID PROJECT				

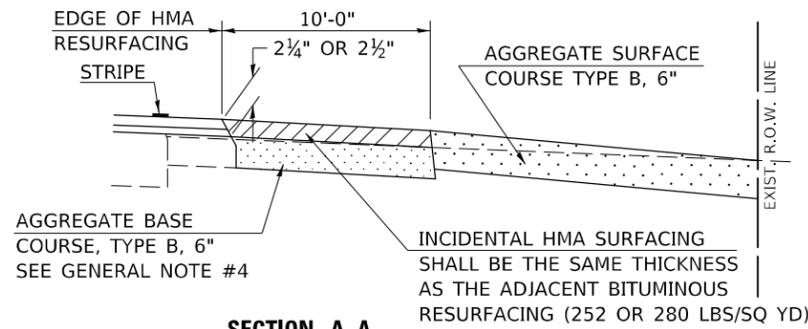
PROJECTS WITH RECONSTRUCTION

AGGREGATE ENTRANCE

(3R IMPROVEMENTS)

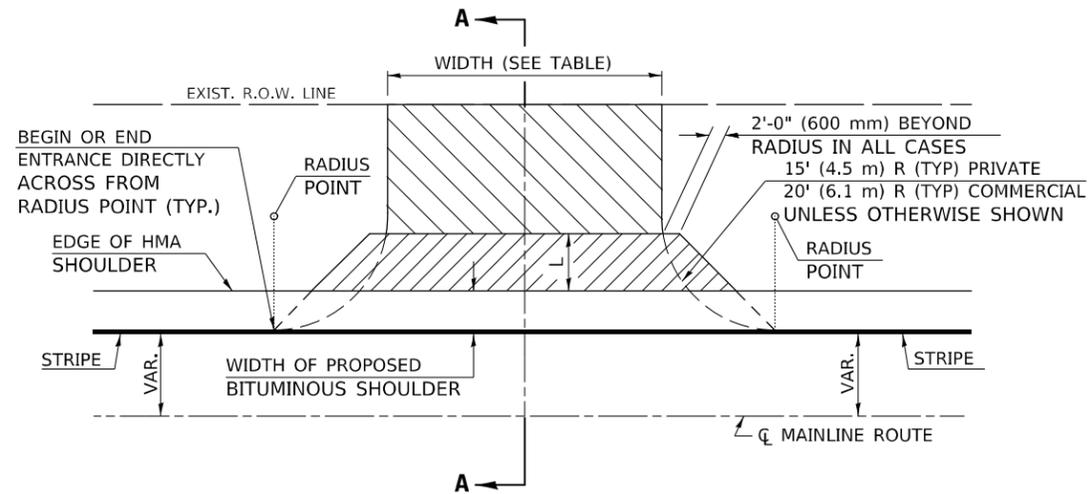


TYPICAL APPLICATION

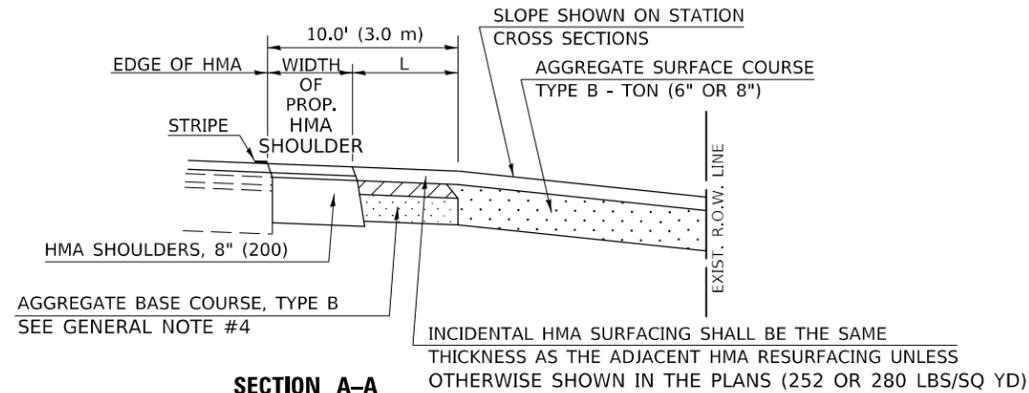


SECTION A-A

HMA OR PCC ENTRANCE



TYPICAL APPLICATION



SECTION A-A
"HMA EXAMPLE"

GENERAL NOTES

1. THE EXISTING SURFACE SHALL BE PREPARED IN ACCORDANCE WITH SECTION 408 OF THE STANDARD SPECIFICATIONS.
2. ANY NECESSARY WORK BEHIND THE HMA SHOULDER OR THE INCIDENTAL HMA SURFACING SHALL BE AS SHOWN IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.
3. EARTH EXCAVATION REQUIRED FOR THE CONSTRUCTION OF THE AGGREGATE SURFACE COURSE SHALL BE INCLUDED IN THE COST OF AGGREGATE SURFACE COURSE.
4. AGGREGATE BASE COURSE, TYPE B, 6" (150 mm) MIN. SHALL BE USED WHERE IN THE OPINION OF THE ENGINEER THERE IS NOT SUFFICIENT BASE MATERIAL FOR THE PROPOSED ENTRANCES. THIS MATERIAL SHALL GENERALLY BE USED TO WIDEN ANY EXISTING RETURN OR TO CONSTRUCT NEW ENTRANCES WHERE NONE NOW EXISTS.
5. THE AGGREGATE BASE COURSE SHALL BE CONSTRUCTED 12" (300 mm) WIDER THAN THE SURFACE DIMENSIONS AS SHOWN ABOVE.
6. EXISTING FIELD ENTRANCES OF AGGREGATE OR EARTH WITH NO HMA APRON SHALL NOT RECEIVE A NEW HMA APRON WITHOUT PROPER APPROVAL THROUGH THE BUREAU OF OPERATIONS "POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS".

TO ASSURE APPROPRIATE ACCESS POLICIES ARE FOLLOWED ALL NEW ACCESS SHALL BE APPLIED FOR THROUGH THE BUREAU OF OPERATIONS PERMIT APPLICATION PROCESS. PLAN PREPARATION MEMORANDUMS 40-09 ALONG WITH DISTRICT PROJECT IMPLEMENTATION MEMO 104/01 DISCUSS THIS PROCEDURE.

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

RURAL ENTRANCE DESIGN STANDARDS (PPM 40-09)

DESIGN ELEMENT	NEW CONSTRUCTION & 3R with CONSTRUCTION						3R w/out RECONSTRUCTION, 3P, SMART & CM								
	NONCOMMERCIAL			FIELD W/FARM IMPLEMENTS			COMMERCIAL			NONCOMMERCIAL			COMMERCIAL		
	min.	des.	max.	min.	max.	min.	des.	max.	min.	des.	max.	min.	des.	max.	
SURFACE WIDTH (FT)	12	16	24	24	30	1 LANE, 1 WAY			1 LANE, 1 WAY			1 LANE, 1 WAY			
						14	16	24							
RADIUS (FT)	15	25	40	30	30	2 LANE, 2 WAY			2 LANE, 2 WAY			2 LANE, 2 WAY			
						24	30	35							
SHOULDER WIDTH (FT)	2	2		2		1	3		resurface existing configuration; existing aggregate or earth entrances shall have the continuation of aggregate shoulders placed behind them						
SHOULDER SLOPE (%)	2	4	6	4		2	4	6							
ENTRANCE GRADE (%)	0	2 to 5	10 or 12	2 to 5	10 or 12	0	2 to 5	8 or 10							
SIDE SLOPE (FT)	1:10	1:6	1:4	1:6	1:4	1:10	1:6	1:4							
SURFACE TYPE															
INCIDENTAL HMA SURFACING (INCH)		2		2		3 or 4			taper from hma resurfacing thickness (2 1/2", 2 1/4" or 1 1/2") to 1 1/2" to minimize aggregate shoulder						
AGGREGATE SURFACE COURSE, TYPE B (INCH)		6		6		8			if applicable, use items: Preparation of Base & Aggregate Base Repair; see PPM 30-02						
PCC DRIVEWAY PAVEMENT (INCH)		6						6 or 8							

DISTRICT 5 DETAIL NO. 40800050C

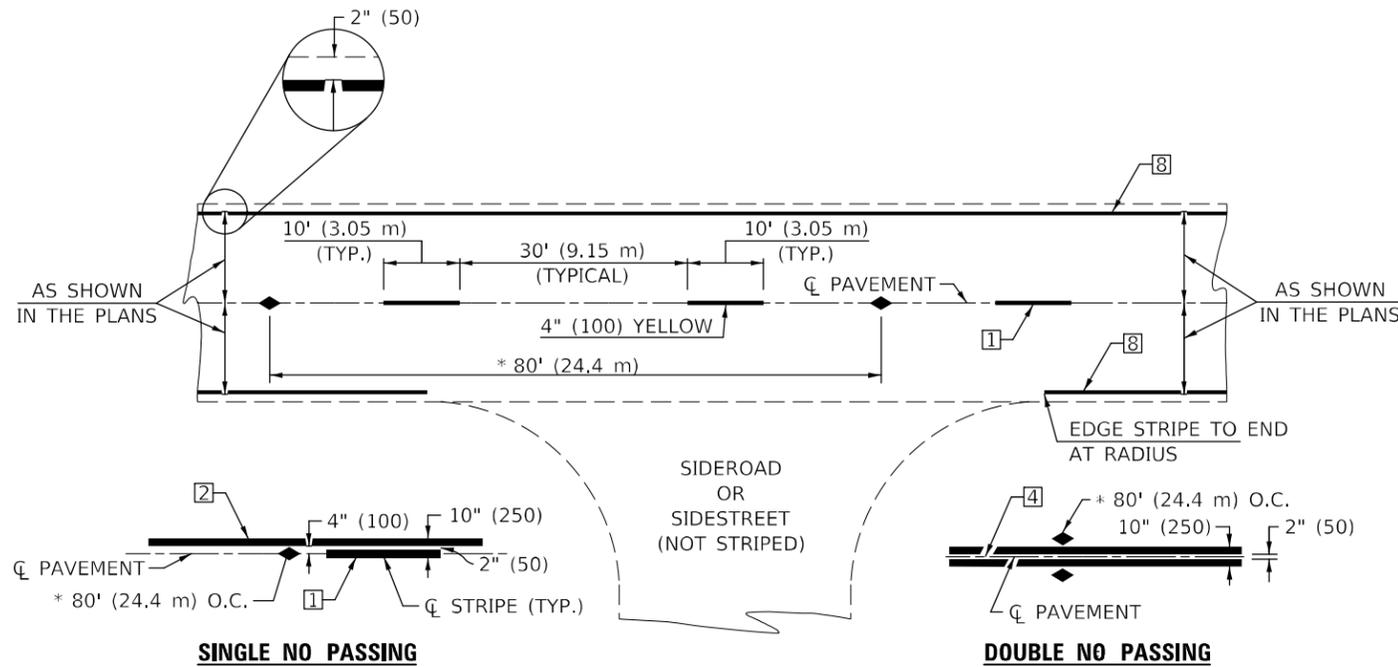
USER NAME = meglisk	DESIGNED -	REVISED - 09/07 KAG
	DRAWN -	REVISED - 05/08 KJT
PLOT SCALE = 40,0000 * / in.	CHECKED -	REVISED - 04/10 KJT
PLOT DATE = 01/25/22	DATE -	REVISED - 3/6/17 SWN

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRIVATE COMMERCIAL ENTRANCES
(NONCOMMERCIAL AND COMMERCIAL RURAL)

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
500	116 RS	VERMILION	15	11
CONTRACT NO. 70F62				
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.

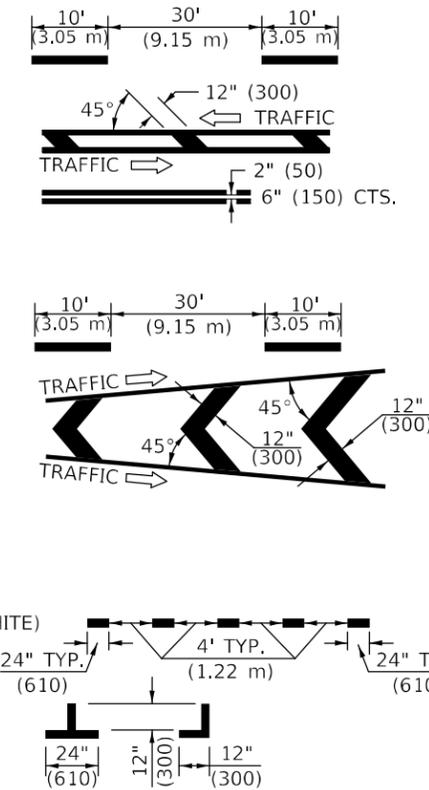
TWO LANE/TWO WAY

TYPICAL PAVEMENT MARKING LEGEND

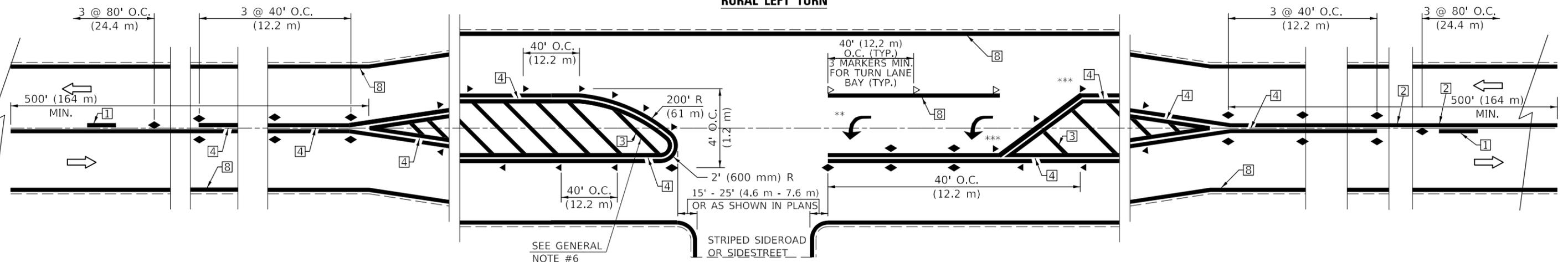
- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 RESERVED
- 6 RESERVED
- 7 4" (100) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) LANE LINE EXTENSIONS (WHITE)
- 14 4" (100) PARKING WHITE

TYPICAL PAVEMENT MARKERS LEGEND

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



RURAL LEFT TURN



*** REDUCE SPACING IF NECESSARY TO ASSURE MARKERS AT CORNER POINTS.
 ** TURN ARROWS SHALL BE PLACED AS SHOWN ON SHEET #2.

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

DISTRICT 5 DETAIL NO. 7800AAAA

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

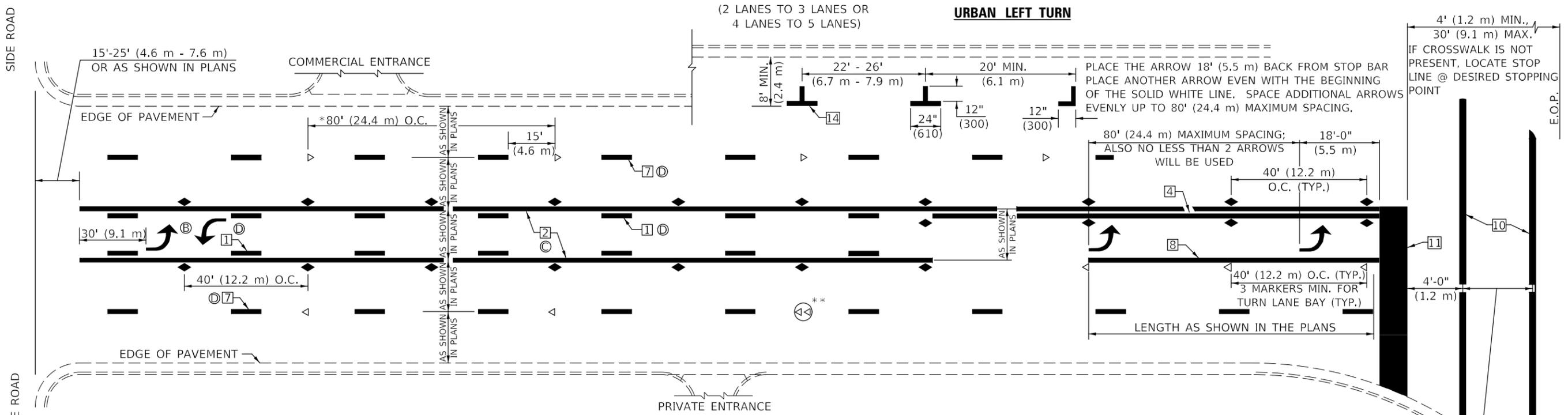
**PAVEMENT MARKING AND MARKERS
(RURAL & URBAN APPLICATIONS)**

USER NAME = meglisk	DESIGNED -	REVISED - 11/06
	DRAWN -	REVISED - 9/2009 KJT
PLOT SCALE = 40.0000" / in.	CHECKED -	REVISED - 04/14 JLA
PLOT DATE = 01/25/22	DATE -	REVISED - 3/2019 SWN

SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
500	116 RS	VERMILION	15	12
CONTRACT NO. 70F62				
ILLINOIS FED. AID PROJECT				

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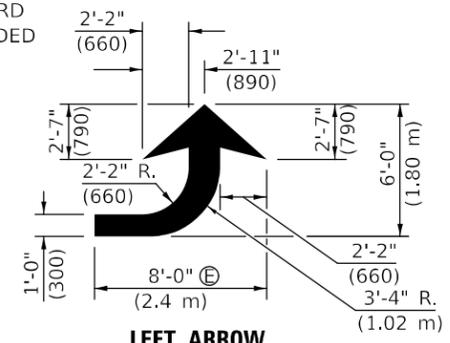


* REDUCE TO 40 FEET (12.2 METERS) ON CENTER ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

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

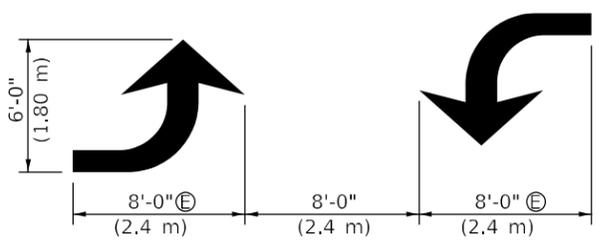
GENERAL NOTES:

- ⓑ 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.
- ⓒ 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.
- ⓓ 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. SEE EXAMPLE ON SHEET 2 OF 3.
- ⓔ USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)



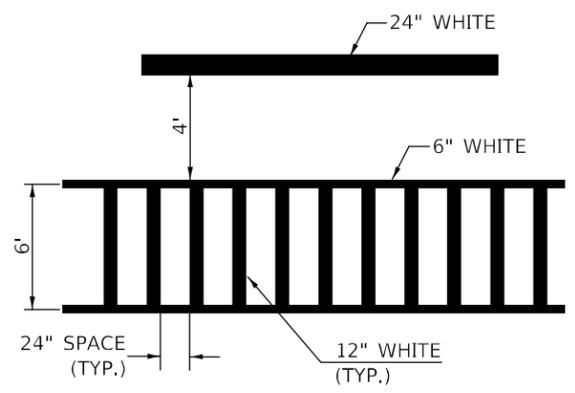
LEFT ARROW

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

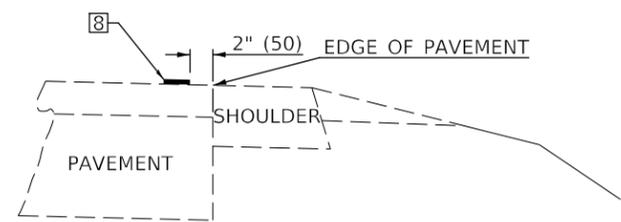


TYPICAL DOUBLE TURN ARROWS (WHITE)

BLOOMINGTON-NORMAL CITY LIMITS ONLY

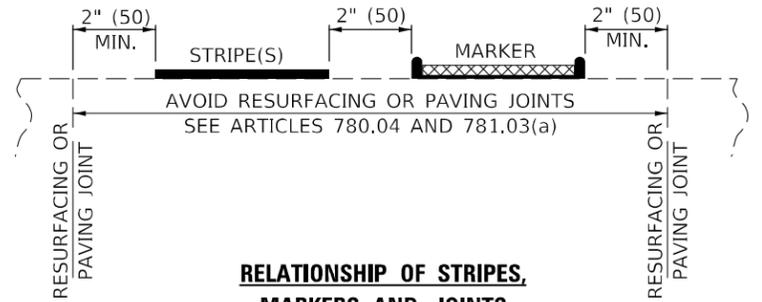


TYPICAL SPACING FOR CROSSWALKS & STOP BARS



RELATIONSHIP OF EDGE LINE TO EDGE OF PAVEMENT

(SAFETY SHOULDER OR PAVED SURFACE)
SEE ARTICLE 780.04



RELATIONSHIP OF STRIPES, MARKERS AND JOINTS

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

MODEL: I:\MODEL MARKS FILE NAME: pav\illinois\pav_beneficiary.com\PI\DOT\Documents\DOT Office\District 5\Project\DOT57062\Cadd\Drawn\CD\Sheet\DOT57062-sh-Details\Detail 5_Details.dgn

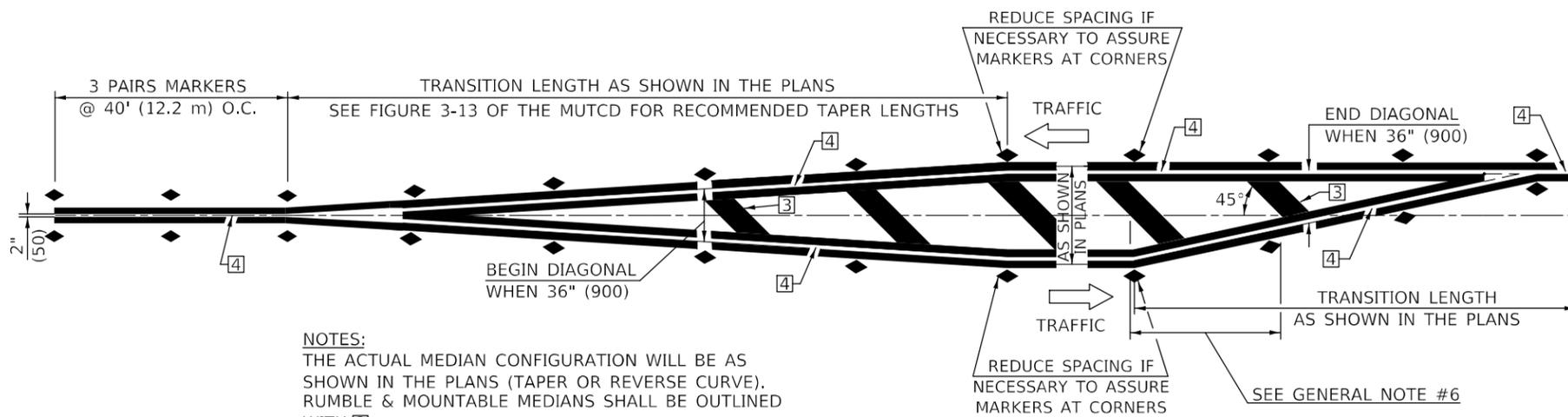
USER NAME = meglisk	DESIGNED -	REVISED - 11/06
	DRAWN -	REVISED - 9/2009 KJT
PLOT SCALE = 40.0000 * / in.	CHECKED -	REVISED - 04/14 JLA
PLOT DATE = 01/25/22	DATE -	REVISED - 3/2019 SWN

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.

DISTRICT 5 DETAIL NO. 7800AAAA				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
500	116 RS	VERMILION	15	13
			CONTRACT NO. 70F62	
			ILLINOIS FED. AID PROJECT	

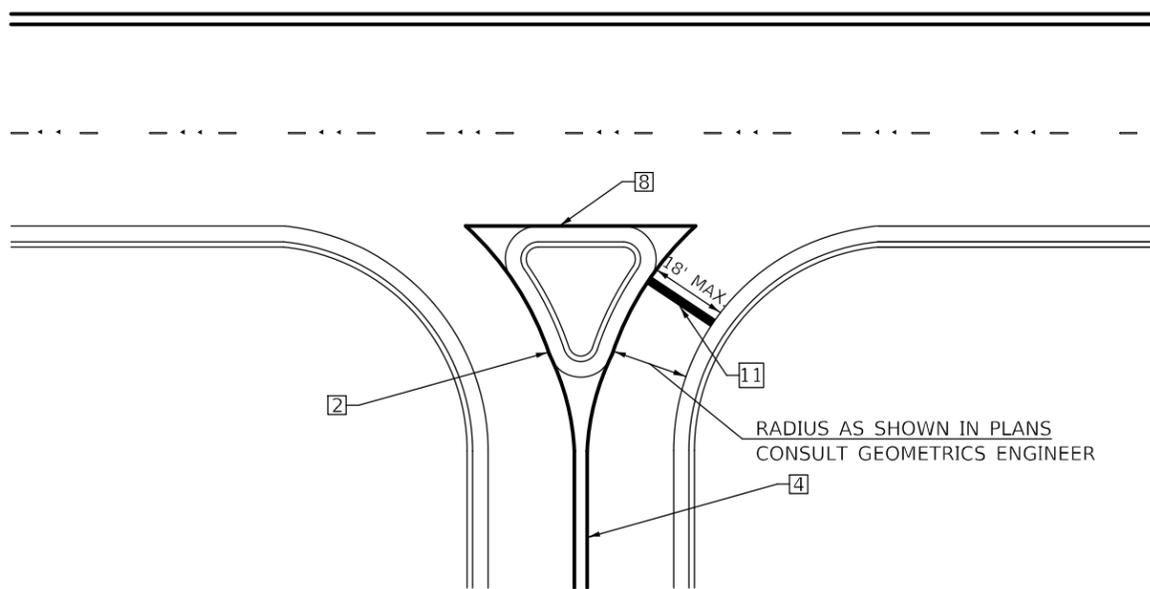


NOTES:
 THE ACTUAL MEDIAN CONFIGURATION WILL BE AS SHOWN IN THE PLANS (TAPER OR REVERSE CURVE). RUMBLE & MOUNTABLE MEDIANS SHALL BE OUTLINED WITH [2].

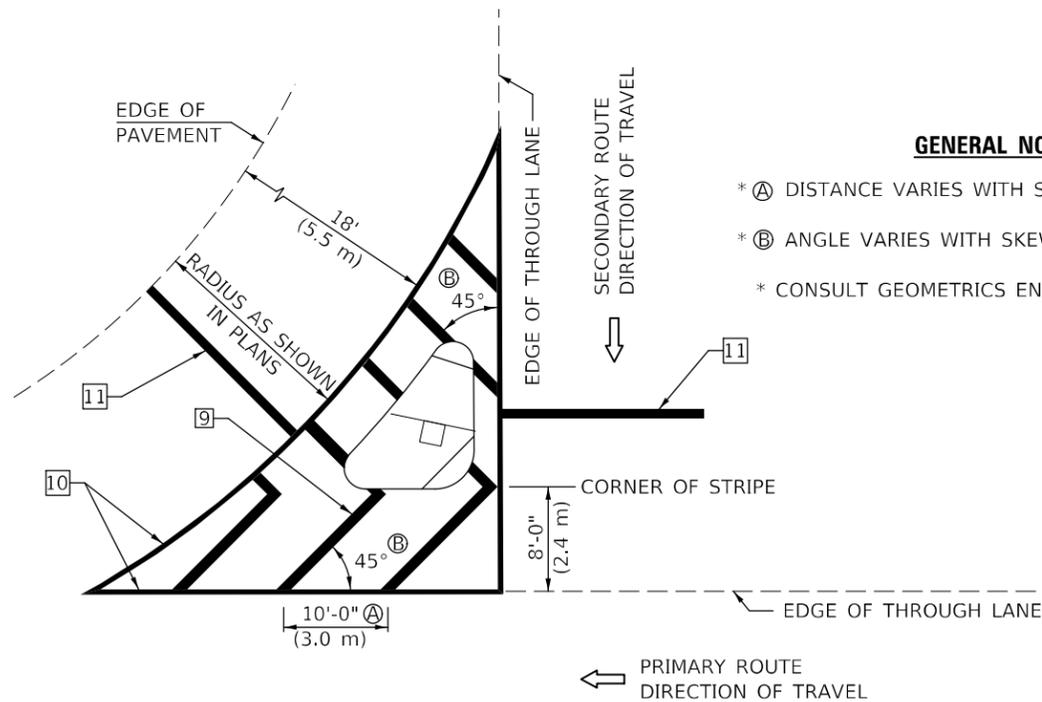
TYPICAL MEDIAN TRANSITIONS

GENERAL NOTES

1. WHEN MEDIANS ARE PRESENT, PAVEMENT MARKINGS ARE TO BE PLACED ADJACENT TO MEDIANS.
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. A STRIPING KEY IS AVAILABLE ELSEWHERE AND SHALL BE SHOWN WHERE THE QUANTITIES ARE LISTED.
5. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
6. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING,
 <30 MPH USE 15' (<50 km/h USE 4.5 m)
 30-45 MPH USE 20' (50-75 km/h USE 6.0 m)
 >45 MPH USE 30' (>75 km/h USE 9.0 m)



RIGHT IN - RIGHT OUT ACCESS



ISLAND

GENERAL NOTES

- * A DISTANCE VARIES WITH SKEW OF INTERSECTION.
- * B ANGLE VARIES WITH SKEW OF INTERSECTION.
- * CONSULT GEOMETRICS ENGINEER

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

MODEL: \\MODEL\NAME: FILE: NAME: P:\Users\paw.bentley.com\P\W\DOT\Documents\DOT Office\District 5\Project\570662\CADD\Drawings\CADD\Sheet\570662.dwg:Detail\District 5 Detail.dgn

USER NAME = meglisk	DESIGNED -	REVISED - 11/06
	DRAWN -	REVISED - 9/2009 KJT
PLOT SCALE = 40,0000 * / in.	CHECKED -	REVISED - 04/14 JLA
PLOT DATE = 01/25/22	DATE -	REVISED - 3/2019 SWN

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

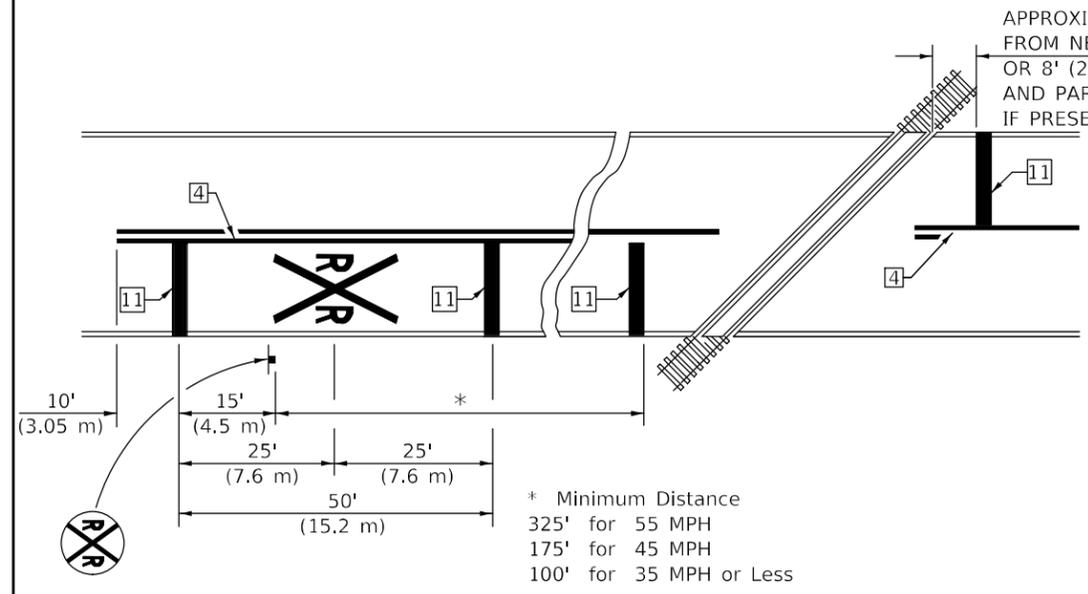
**PAVEMENT MARKING AND MARKERS
 (RURAL & URBAN APPLICATIONS)**

SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

DISTRICT 5 DETAIL NO. 7800AAAA				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
500	116 RS	VERMILION	15	14
CONTRACT NO. 70F62				
ILLINOIS FED. AID PROJECT				

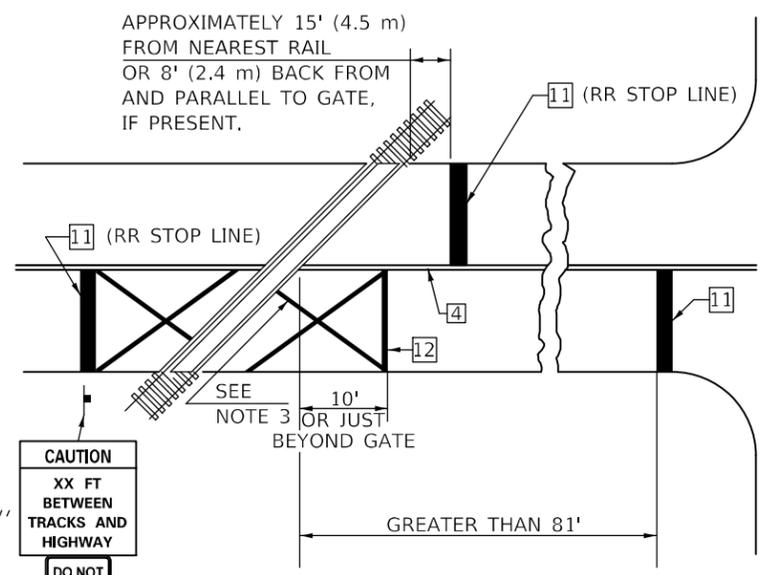
DESIGNER NOTE: SEE TABLE 2C-4 OF THE MUTCD FOR ADDITIONAL INFORMATION

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PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING

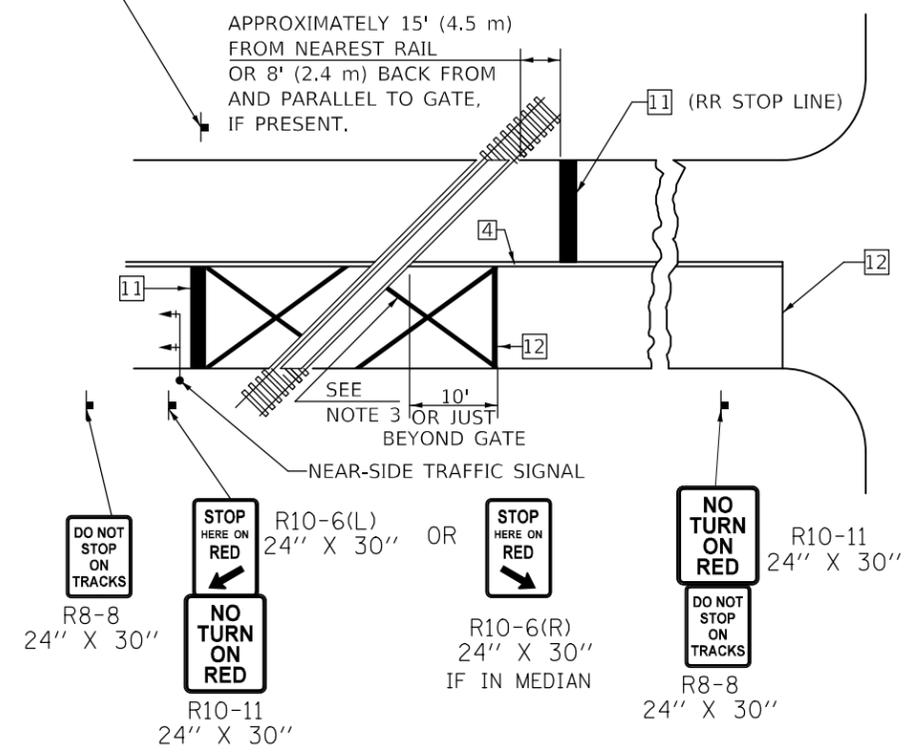
RAILROAD CROSSING WITH INTERCONNECT ONLY



CAUTION
XX FT
BETWEEN
TRACKS AND
HIGHWAY
DO NOT
STOP
ON
TRACKS
R8-8
24'' X 30''

ONLY IF SIGNAL HEAD
CANNOT BE LOCATED
IN MEDIAN

RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



DO NOT
STOP
ON
TRACKS
R8-8
24'' X 30''
R10-11
24'' X 30''

STOP
HERE ON
RED
NO
TURN
ON
RED
R10-6(L)
24'' X 30''
OR
R10-6(R)
24'' X 30''
IF IN MEDIAN

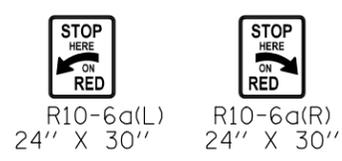
STOP
HERE ON
RED
NO
TURN
ON
RED
DO NOT
STOP
ON
TRACKS
R10-11
24'' X 30''
R8-8
24'' X 30''

GENERAL NOTES

1. SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
2. EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.
3. 6" WHITE PAVEMENT MARKINGS AT 45° TO PAVEMENT, 8' CENTER TO CENTER.
4. XX DISTANCE TO BE SHOWN ON SIGN MEASURED FROM A POINT 6 FEET FROM THE RAIL CLOSEST TO THE INTERSECTION OR FROM THE CLOSEST POINT ALONG THE EXIT GATE IF PRESENT OVER THE ROADWAY WHEN IN THE LOWERED POSITION TO THE STOP BAR OR CROSSWALK, WHICH EVER IS CLOSEST, ROUNDED DOWN TO NEAREST 5 FEET. WHERE THERE IS NO STOP LINE, MEASURE TO POINT WHERE DRIVER HAS A VIEW OF APPROACHING TRAFFIC.
5. THE CLEARANCE SIGN IS ALSO TO BE USED AS AN INTERIM MEASURE AT LOCATIONS WITH INTERCONNECTED INTERSECTION TRAFFIC SIGNALS WHERE IT IS PLANNED TO CHANGE THEM TO NEAR-SIDE SIGNALS AT A FUTURE TIME. IN THIS CASE, THE DISTANCE TO BE SHOWN ON THE SIGN IS MEASURED FROM THE EDGE OF THE STRIPED-OUT AREA INSTEAD OF 6 FEET FROM THE RAIL. THE SIGN IS TO BE REMOVED WHEN THE NEAR-SIDE SIGNALS ARE INSTALLED AND THE PAVEMENT MARKINGS EXTENDED TO THE INTERSECTION.

SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

ALTERNATE SIGNS



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.

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

DISTRICT 5 DETAIL NO. 7800AAAA

USER NAME = meglisk	DESIGNED -	REVISED - 11/06
	DRAWN -	REVISED - 9/2009 KJT
PLOT SCALE = 40.0000 "/in.	CHECKED -	REVISED - 04/14 JLA
PLOT DATE = 01/25/22	DATE -	REVISED - 3/2019 SWN

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
500	116 RS	VERMILION	15	15
CONTRACT NO. 70F62				
ILLINOIS FED. AID PROJECT				