

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
500	(116)	VERMILION	21	1
		ILLINOIS	CONTRACT NO 70G24	

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

CURRENT TRAFFIC DATA

FAS RTE 500 / (BOWMAN AVE)

	ADT (2023)	PV %	SU %	MU %
FAS 500	= 2,050	91.7	3.9	4.4

TRAFFIC DATA LOCATIONS

FAS 500 = BOWMAN AVE FROM IL 119 TO FAS 497A (HOLLOWAY AVE.)

FUNCTIONAL CLASSIFICATION

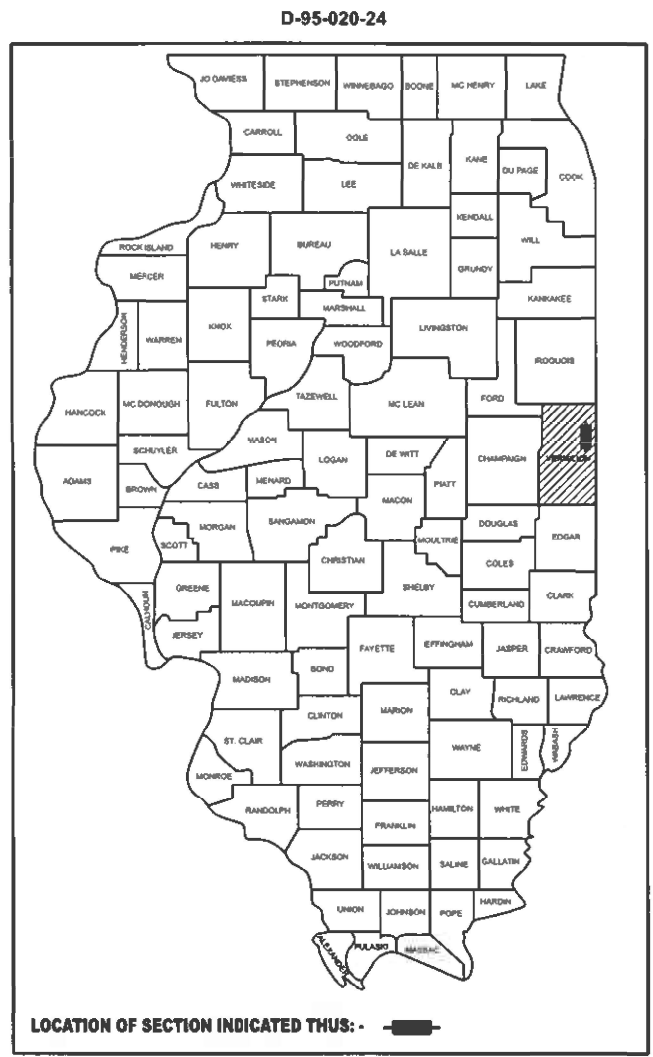
MINOR ARTERIAL

PROPOSED HIGHWAY PLANS

FAS ROUTE 500 / (BOWMAN AVE) SECTION (116) SMART OVERLAY VERMILION COUNTY

C-95-040-24

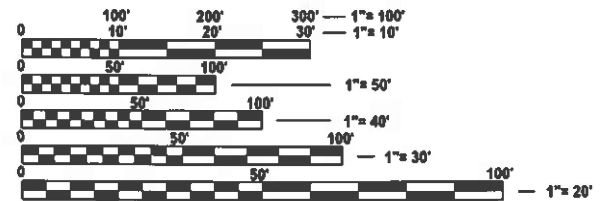
BOWMAN AVE FROM ILL 119 NORTH OF BISMARCK TO CR 2820



DESIGN DESIGNATION

NA

TOWNSHIP: SOUTH ROSS

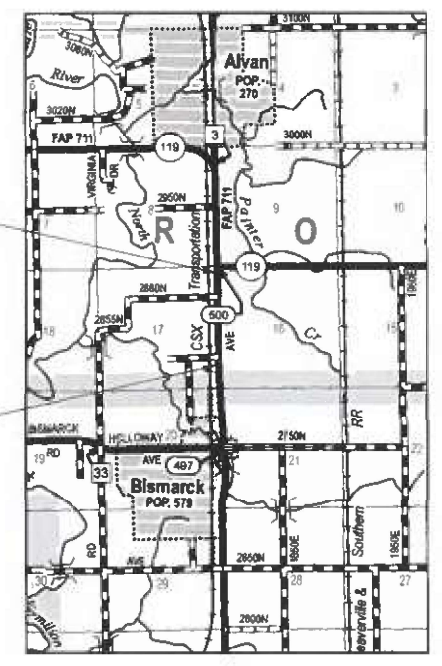


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: JASON STULTS
SQUAD LEADER: GREG EAGLIN
PROJECT DESIGNER: GAGE EVELAND
PHONE: (217) 465-4181

CONTRACT NO. 70G24



GROSS LENGTH = 3,470 FT. = 0.657 MILE
NET LENGTH = 3,470 FT. = 0.657 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 3/12 20 24
Kensil A. Barnett
REGIONAL ENGINEER

May 10, 2024 *Jason Stults*
ENGINEER OF DESIGN AND ENVIRONMENT

May 10, 2024 *Stephen M. Smith*
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

INDEX OF SHEETS

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
1	COVER SHEET
2	INDEX OF SHEETS
2	LIST OF HIGHWAY STANDARDS
2	GENERAL NOTES
3	SUMMARY OF QUANTITIES
4	EXISTING AND PROPOSED TYPICAL CROSS SECTIONS
5 - 6	SCHEDULE OF QUANTITIES
7 - 10	PLAN SHEETS
11 - 12	DETAIL FOR FIELD ENTRANCES (NONCOMMERCIAL RURAL)
13	DETAIL FOR MAILBOX TURNOUT (RURAL)
14 - 15	DETAIL FOR PRIVATE COMMERCIAL ENTRANCES (NONCOMMERCIAL & COMMERCIAL RURAL)
16 - 17	DETAIL FOR SIDEROAD / STREET RETURNS (RURAL)
18 - 21	DETAIL FOR PAVEMENT MARKING AND MARKERS (RURAL & URBAN APPLICATIONS)

LIST OF HIGHWAY STANDARDS

<u>STANDARD NO.</u>	<u>NAME OF STANDARD</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 EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-04	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH
701311-03	LANE CLOSURE 2L, 2W, MOVING OPERATIONS - DAY ONLY
701901-09	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

GENERAL NOTES

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

G.N. - 406H
THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

LOCATION	BOWMAN AVE
MIXTURE USE	SURFACE MAINLINE & INCIDENTAL
AC/PG	PG 64-22
DESIGN AIR Voids	4.0% @ Ndes=50
MIX COMP(GRADATION)	IL 9.5
FRICTION AGGREGATE	MIX "C"
MIXTURE WEIGHT	112
QUALITY MANAGEMENT PROGRAM	QC/QA
SUBLOT SIZE	3000
MATERIAL TRANSFER DEVICE	NO

G.N. 406S
PROJECT POSTED SPEED LIMITS

THE FOLLOWING TABLE IS A LISTING OF POSTED SPEED LIMITS WITHIN THE PROJECT LIMITS.
THE ENGINEER SHALL FIELD VERIFY THESE LIMITS:

LOCATION	STATION	TO	STATION	POSTED SPEED LIMIT (MPH)
FAS 500 (BOWMAN AVE)	138+90.00		173+60.00	55

G.N.-703A
SHORT TERM PAVEMENT MARKING SHALL BE APPLIED TO THE PAVEMENT AFTER ANY OF THE FOLLOWING: PAVEMENT MARKING REMOVAL, COLD MILLING AND/OR PLACING BITUMINOUS MATERIALS (TACK COAT), 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.

COMMITMENTS

THERE ARE NO COMMITMENTS FOR THIS CONTRACT.

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INDEX OF SHEETS, LIST OF HIGHWAY STANDARDS, GENERAL NOTES

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
500	(116)I	VERMILION	21	2
CONTRACT NO. 70G24				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

LOCATION OF WORK: FAS 500 / (BOWMAN AVE)
 COUNTY: RURAL 2 LANE VERMILION
 STA. 138+90.00 TO STA. 173+60.00
 FUNDING BREAKOUT: 100% STATE
 CONSTRUCTION CODE: 0005

LOCATION OF WORK: FAS 500 / (BOWMAN AVE)
 COUNTY: RURAL 2 LANE VERMILION
 STA. 138+90.00 TO STA. 173+60.00
 FUNDING BREAKOUT: 100% STATE
 CONSTRUCTION CODE: 0005

CODE NO	ITEM	UNIT	TOTAL QUANTITY
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	4,425.0
40600370	LONGITUDINAL JOINT SEALANT	FOOT	3,470.0
40600990	TEMPORARY RAMP	SQ YD	27.0
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	778.0
40800029	BITUMINOUS MATERIALS (TACK COAT)	POUND	190.0
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	36.0
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	9,254.0
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	116.0
67100100	MOBILIZATION	L SUM	1.0

* SPECIALTY ITEM

CODE NO	ITEM	UNIT	TOTAL QUANTITY
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1.0
70300100	SHORT TERM PAVEMENT MARKING	FOOT	704.0
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	118.0
70300221	TEMPORARY PAVEMENT MARKING - LINE 4" - PAINT	FOOT	8,896.0
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	8,896.0
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	45.0
78300200	RAISED REFLECTIVE PAVMENT MARKER REMOVAL	EACH	45.0
X4400196	HOT-MIX ASPHALT SURFACE REMOVAL (SPECIAL)	SQ YD	421.0
Z0013798	CONSTRUCTION LAYOUT	L SUM	1.0

* SPECIALTY ITEM

MODEL: Summary of Quantities (Sheet)
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	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

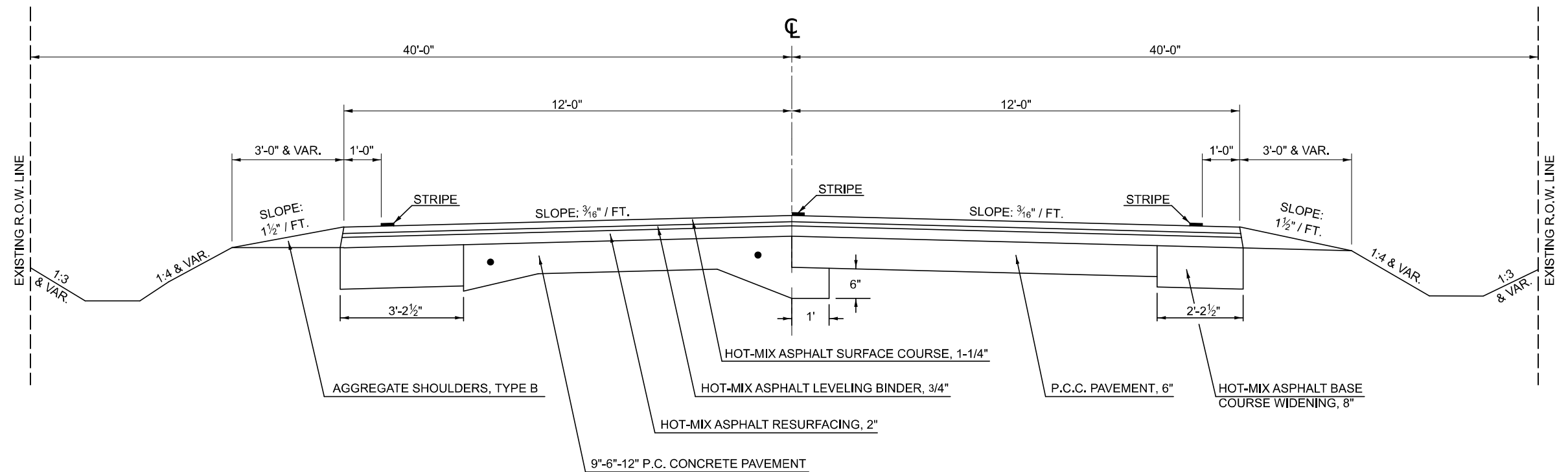
SUMMARY OF QUANTITIES

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
500	(116)I	VERMILION	21	3
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70G24	

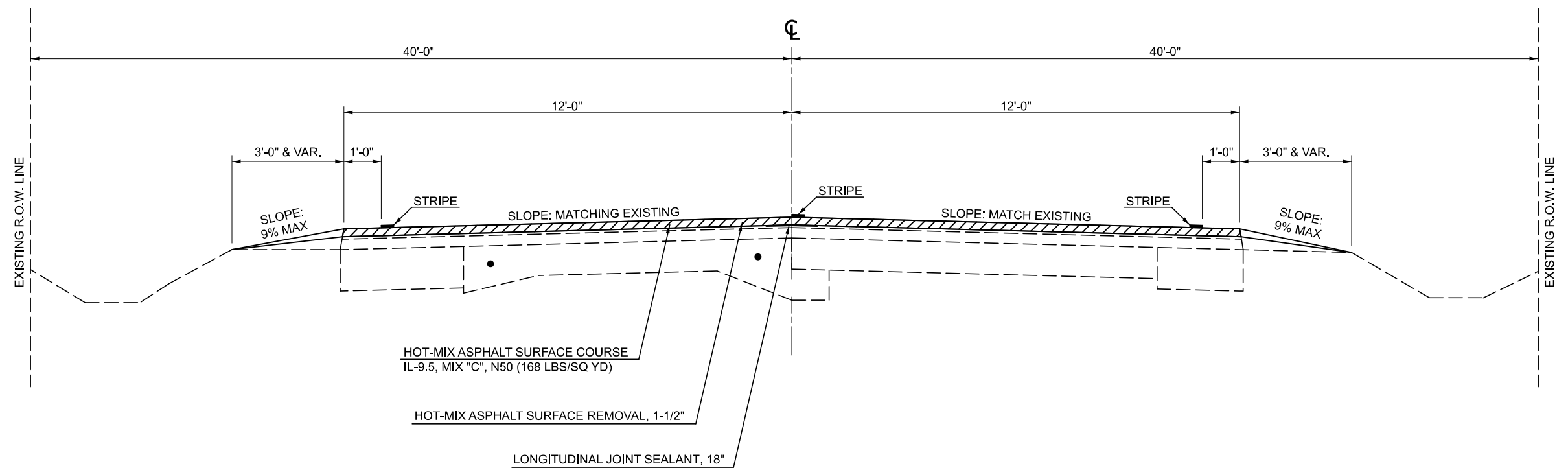
EXISTING TYPICAL CROSS SECTION

STATION TO STATION
138+90.00 TO 173+60.00



PROPOSED TYPICAL CROSS SECTION

STATION TO STATION
138+90.00 TO 173+60.00



 HOT-MIX ASPHALT SURFACE REMOVAL, 1-1/2"

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PLOT DATE = 2/23/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTION			
SCALE:	SHEET 1	OF 1	SHEETS
	STA.		TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
500	(116)I	VERMILION	21	4
CONTRACT NO. 70G24				
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

40600990 TEMPORARY RAMP

LOCATION			STATION	TO	STATION	DROP (INCH)	LENGTH (FT)	WIDTH (FT)	QUANTITY (SQ YD)	CONSTRUCT AFTER:
N.B.	RT.	FAS 500	138+90.00		138+95.00	1.50	5.00	12.00	6.67	MILLING
N.B.	RT.	FAS 500	173+55.00		173+60.00	1.50	5.00	12.00	6.67	MILLING
S.B.	LT.	FAS 500	138+90.00		138+95.00	1.50	5.00	12.00	6.67	MILLING
S.B.	LT.	FAS 500	173+55.00		173+60.00	1.50	5.00	12.00	6.67	MILLING
TOTAL =									26.67	
USE =									27.00	
										SQ YD

HOT-MIX ASPHALT SCHEDULE

LOCATION							STATION	TO	STATION	LENGTH (FT)	AVERAGE WIDTH (FT)	AREA (SQ YD)	HMA SURFACE THICKNESS (INCHES)	44000155 HMA SURFACE REMOVAL, 1-1/2" (SQ YD)	40600370 LONGITUDINAL JOINT SEALANT (FOOT)	40600290 BITUMINOUS MATERIALS TACK COAT (POUND)	40604050 HOT-MIX ASPHALT SURFACE COURSE IL 9.5, MIX "C", N50 (TON)	
N.B.	C.L.	FAS 500	138+90.00		173+60.00	3,470.00									3,470.00	260.25		
N.B.	RT.	FAS 500	138+90.00		173+60.00	3,470.00	12.00		4,626.67				1.5	4,626.67		2,082.00	388.64	
S.B.	LT.	FAS 500	138+90.00		173+60.00	3,470.00	12.00		4,626.67				1.5	4,626.67		2,082.00	388.64	
TOTAL =														9,253.33	3,470.00	4,424.25	777.28	
USE =														9,254.00	3,470.00	4,425.00	778.00	
															SQ YD	FOOT	POUND	TON

INCIDENTAL HOT-MIX ASPHALT SCHEDULE

STATION	DESCRIPTION	PROPOSED AREA (SQ YD)	INCIDENTAL HMA THICKNESS (INCHES)	X4400196 HMA SURFACE REMOVAL, SPECIAL (SQ YD)	40800029 BITUMINOUS MATERIALS TACK COAT (POUND)	40800050 INCIDENTAL HMA SURFACING (TON)	COMMENTS
LT.	139+78.00 RD 2820 N	110.00	1.50	110.00	49.50	9.24	28 FT FROM EOP
RT.	141+70.00 F.E.	17.00	1.50	17.00	7.65	1.43	3 FT FROM EOP
RT.	142+80.00 P.E.	32.00	1.50	32.00	14.40	2.69	10 FT FROM EOP
RT.	144+08.00 P.E.	36.00	1.50	36.00	16.20	3.02	10 FT FROM EOP
LT.	144+08.00 M.B.T.O.	39.00	1.50	39.00	17.55	3.28	7 FT FROM EOP
RT.	152+79.00 F.E.	12.00	1.50	12.00	5.40	1.01	3 FT FROM EOP
RT.	155+25.00 F.E.	13.00	1.50	13.00	5.85	1.09	3 FT FROM EOP
RT.	166+00.00 F.E.	12.00	1.50	12.00	5.40	1.01	3 FT FROM EOP
LT.	166+14.00 RD 2880 N	103.00	1.50	103.00	46.35	8.65	28 FT FROM EOP
RT.	170+80.00 M.B.T.O.	12.00	1.50	12.00	5.40	1.01	3 FT FROM EOP
RT.	172+37.00 P.E.	35.00	1.50	35.00	15.75	2.94	10 FT FROM EOP
TOTAL =				421.00	189.45	35.36	
USE =				421.00	190.00	36.00	
					SQ YD	POUND	TON

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	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 2/27/2024	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
500	(116)I	VERMILION	21	5
CONTRACT NO. 70G24				
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

48102100 AGGREGATE WEDGE SHOULDER, TYPE B

							48102100
LOCATION	STATION	TO	STATION	LENGTH (FT)	WIDTH (FT)	AVE. DEPTH (INCHES)	QUANTITY TON
N.B. RT. FAS 500	138+90.00		173+60.00	3,470.00	3.00	1.00	57.83
S.B. LT. FAS 500	138+90.00		173+60.00	3,470.00	3.00	1.00	57.83
TOTAL =							115.67
USE =							116.00
							TON

78001110 PAINT PAVEMENT MARKING - LINE 4"

7030221 TEMPORARY PAVEMENT MARKING - LINE 4" - PAINT

				78001110	7030221	
LOCATION	STATION	TO	STATION	QUANTITY (FT)	QUANTITY (FT)	COLOR
N.B. CL. SKIP DASH	138+90.00		173+60.00	870.00	870.00	YELLOW
N.B. RT. NO PASS	138+90.00		139+90.00	100.00	100.00	YELLOW
S.B. LT. NO PASS	139+90.00		151+20.00	1,130.00	1,130.00	YELLOW
N.B. RT. EOP	138+90.00		173+60.00	3,470.00	3,470.00	WHITE
S.B. LT. EOP	138+90.00		139+41.00	51.00	51.00	WHITE
S.B. LT. EOP	140+15.00		165+79.00	2,564.00	2,564.00	WHITE
S.B. LT. EOP	166+49.00		173+60.00	711.00	711.00	WHITE
TOTAL =				8,896.00	8,896.00	
USE =				8,896.00	8,896.00	
				FT	FT	

70300100 SHORT TERM PAVEMENT MARKING

70300150 SHORT TERM PAVEMENT MARKING REMOVAL

				70300100		70300150	
LOCATION	STATION	TO	STATION	QUANTITY (FT)	APPLY AFTER	COLOR	QUANTITY (SQ FT)
N.B. FAS 500 SKIP-DASH	138+90.00		173+60.00	704.00	MILLING & HMA SURFACE	YELLOW	117.33
TOTAL =				704.00			117.33
USE =				704.00			118.00
				FT			SQ FT

NOTE:
SHORT TERM PAVEMENT MARKINGS WILL BE REMOVED FROM THE FINAL SURFACE ONLY.

78100100 RAISED REFLECTIVE PAVEMENT MARKER

78300200 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL

					78100100	78300200
LOCATION	STATION	TO	STATION	LENGTH (FT)	TWO-WAY AMBER QUANTITY (EACH)	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL
C.L. FAS 500 SKIP DASH	138+90.00		173+60.00	3,470.00	45.00	45.00
TOTAL =					45.00	45.00
					EACH	EACH

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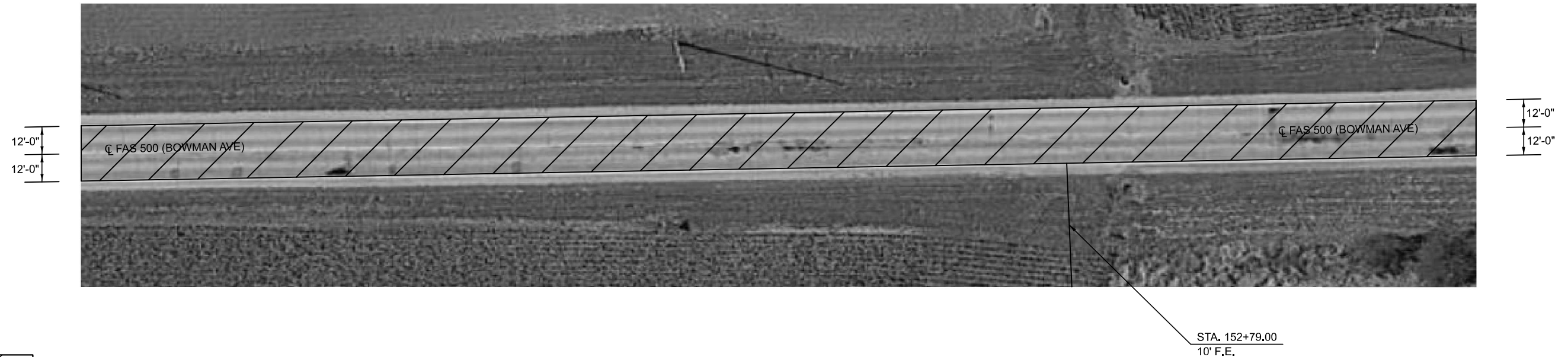
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
500	(116)I	VERMILION	21	6
CONTRACT NO. 70G24				
ILLINOIS FED. AID PROJECT				

SEC. 17, T.21N., R.11W., 3RD P.M.



 HOT-MIX ASPHALT
SURFACE REMOVAL, 1 1/2"

SEC. 16, T.21N., R.11W., 3RD P.M.

NOT TO SCALE

SEC. 17, T.21N., R.11W., 3RD P.M.



 HOT-MIX ASPHALT
SURFACE REMOVAL, 1 1/2"

SEC. 16, T.21N., R.11W., 3RD P.M.

NOT TO SCALE

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PLOT SCALE = 0.16666833' / in.	CHECKED -	REVISED -
PLOT DATE = 2/27/2024	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN SHEETS

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
500	(116)I	VERMILION	21	8
CONTRACT NO. 70G24				
ILLINOIS FED. AID PROJECT				

SEC. 17, T.21N., R.11W., 3RD P.M.



 HOT-MIX ASPHALT
SURFACE REMOVAL, 1 1/2"

SEC. 16, T.21N., R.11W., 3RD P.M.

NOT TO SCALE

SEC. 17, T.21N., R.11W., 3RD P.M.



 HOT-MIX ASPHALT
SURFACE REMOVAL, 1 1/2"

SEC. 16, T.21N., R.11W., 3RD P.M.

NOT TO SCALE

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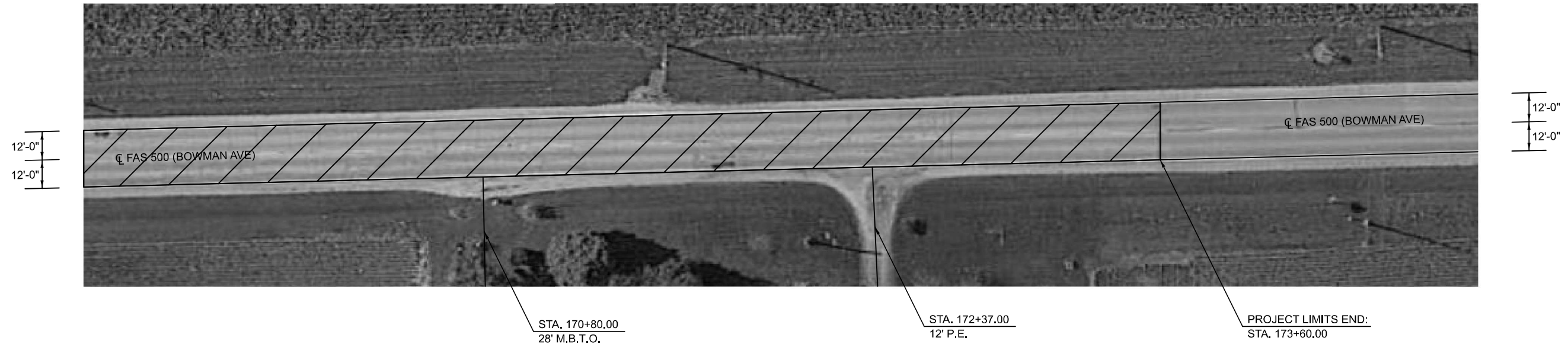
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN SHEETS

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
500	(116)I	VERMILION	21	9
CONTRACT NO. 70G24				
ILLINOIS FED. AID PROJECT				

SEC. 17, T.21N., R.11W., 3RD P.M.



 HOT-MIX ASPHALT
SURFACE REMOVAL, 1 1/2"

SEC. 16, T.21N., R.11W., 3RD P.M.

NOT TO SCALE

SEC. 17, T.21N., R.11W., 3RD P.M.



SEC. 16, T.21N., R.11W., 3RD P.M.

NOT TO SCALE

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PLOT DATE = 2/27/2024	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN SHEETS

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

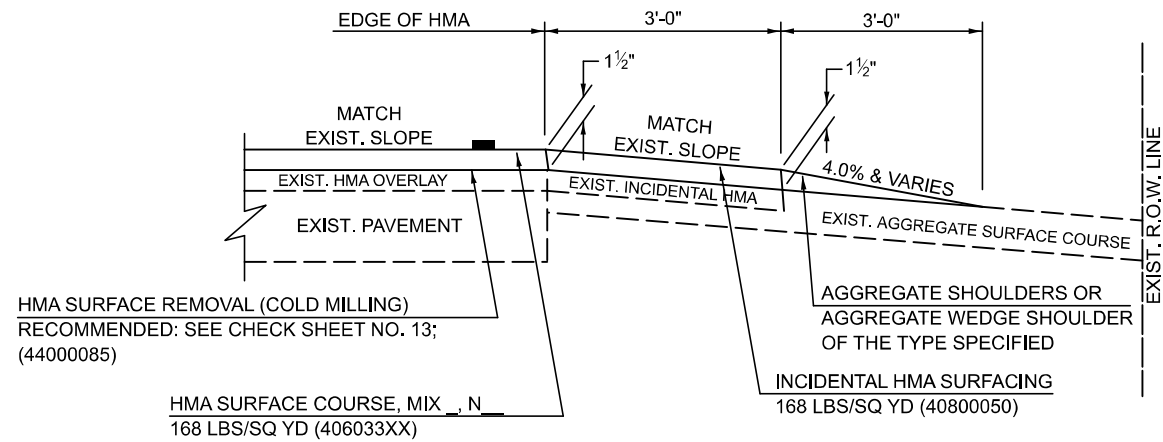
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
500	(116)I	VERMILION	21	10
CONTRACT NO. 70G24				
ILLINOIS FED. AID PROJECT				

PROJECTS WITHOUT RECONSTRUCTION

("3R" WITHOUT RECONSTRUCTION, 3P, SMART AND CM)

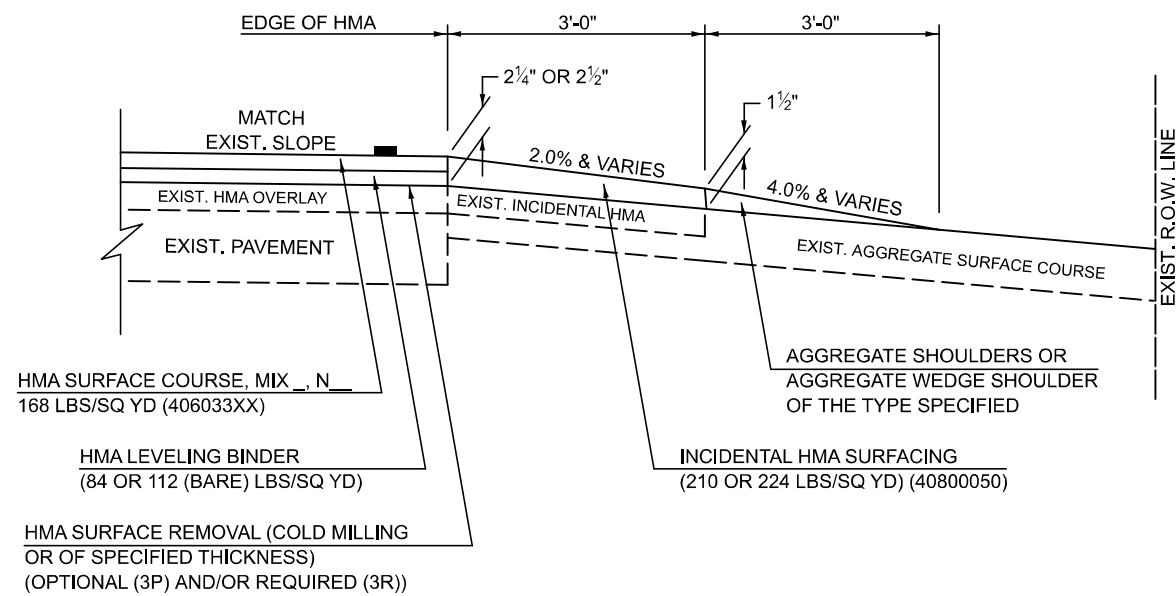
S.M.A.R.T. IMPROVEMENTS

(POLICY RESURFACING; BDE 53-4.03; 1½")



"3P" OR "3R" IMPROVEMENTS

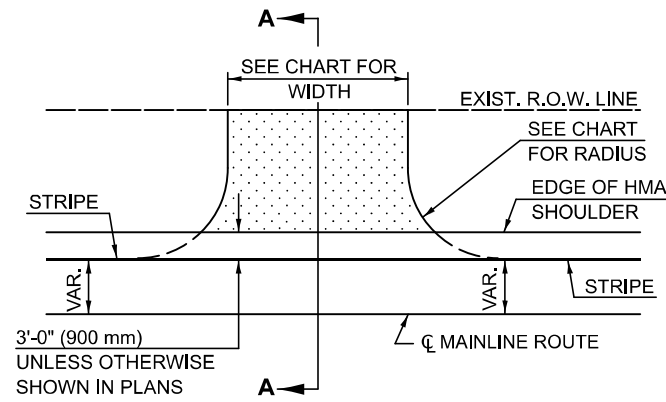
(POLICY RESURFACING; BDE 53-4.02; 2¼" OR 2½" ON BARE CONCRETE)



PROJECTS WITH RECONSTRUCTION

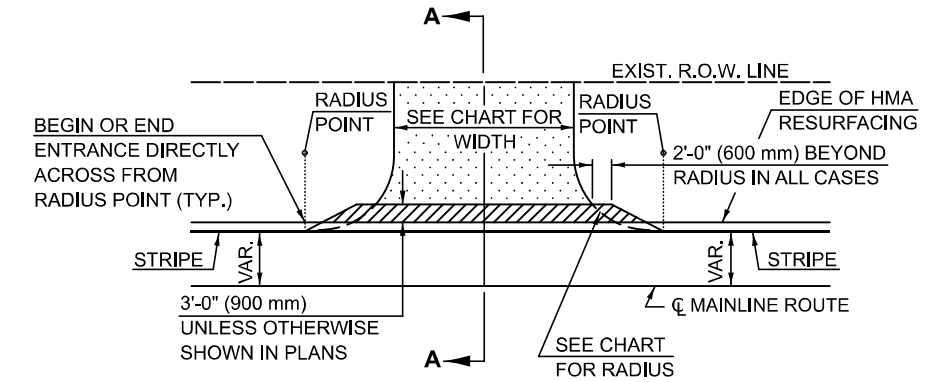
("3R" IMPROVEMENTS AND SMART/3P "SPOT" LOCATIONS)

**ADJACENT TO PROPOSED HMA SHOULDERS
(AGGREGATE OR EARTH ENTRANCE)**

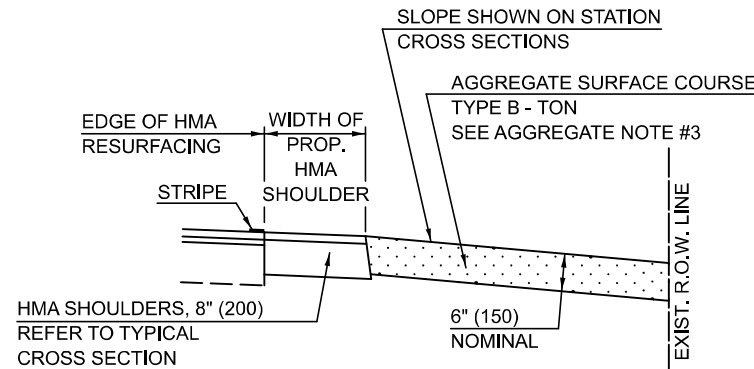


TYPICAL APPLICATION

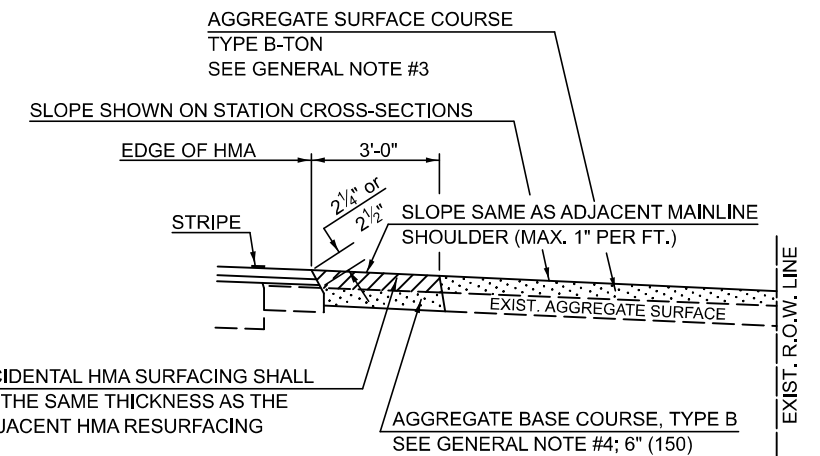
EXISTING AGGREGATE OR EARTH ENTRANCE



TYPICAL APPLICATION



SECTION A-A



SECTION A-A

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

DISTRICT 5 DETAIL NO. 4080050A

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
500	(116)I	VERMILION	21	11
CONTRACT NO. 70G24				
ILLINOIS FED. AID PROJECT				

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FIELD ENTRANCES (NONCOMMERCIAL RURAL)

SCALE: 1"=50' SHEET 1 OF 2 SHEETS STA. TO STA.

USER NAME = Eric.Thomas	DESIGNED -	REVISED - 9/2007 KAG
	DRAWN -	REVISED - 4/2008 KJT
PLOT SCALE = 0.16666633' / in.	CHECKED -	REVISED - 3/2017 SWN
PLOT DATE = 12/7/2022	DATE -	REVISED - 8/2022 JWS

MODEL: SHT_PLAN
FILE NAME: C:\Bentley\CONNECT10110\organization\Civil\DOT_Standards\CeillIDOT_Sheets.cel

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.

DISTRICT 5 DETAIL NO. 4080050A

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
500	(116)I	VERMILION	21	12
CONTRACT NO. 70G24				
ILLINOIS FED. AID PROJECT				

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

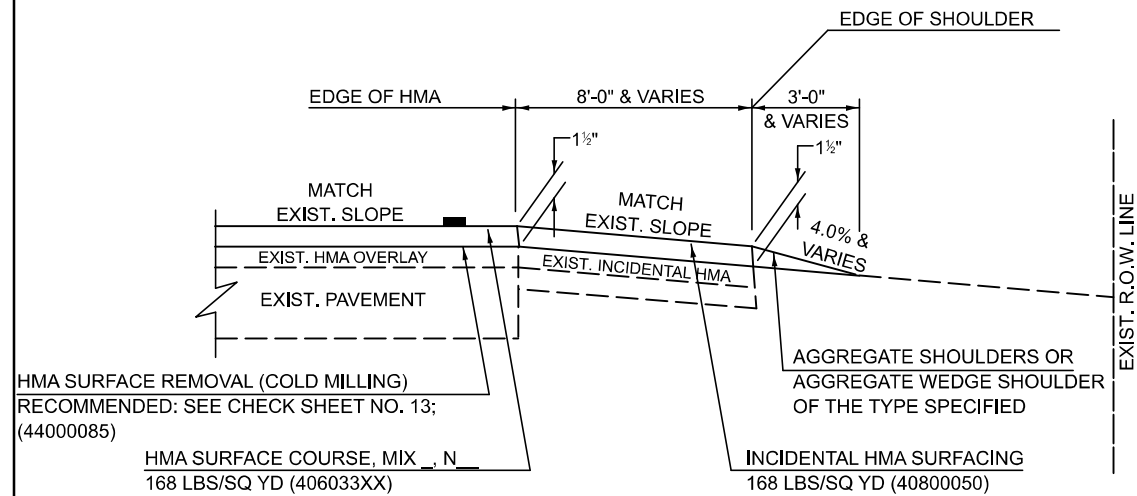
FIELD ENTRANCES (NONCOMMERCIAL RURAL)

SCALE: 1"=50' SHEET 2 OF 2 SHEETS STA. TO STA.

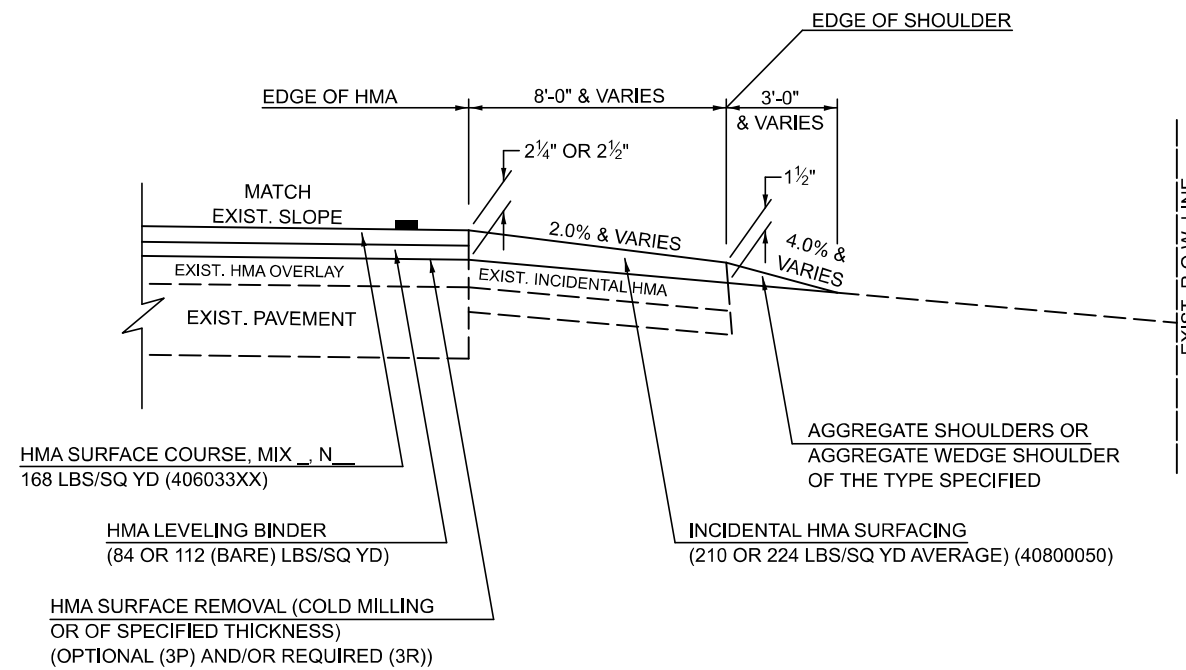
USER NAME = Eric.Thomas	DESIGNED -	REVISED - 9/2007 KAG
	DRAWN -	REVISED - 4/2008 KJT
PLOT SCALE = 0.16666833' / in.	CHECKED -	REVISED - 3/2017 SWN
PLOT DATE = 12/7/2022	DATE -	REVISED - 8/2022 JWS

PROJECTS WITHOUT RECONSTRUCTION

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



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



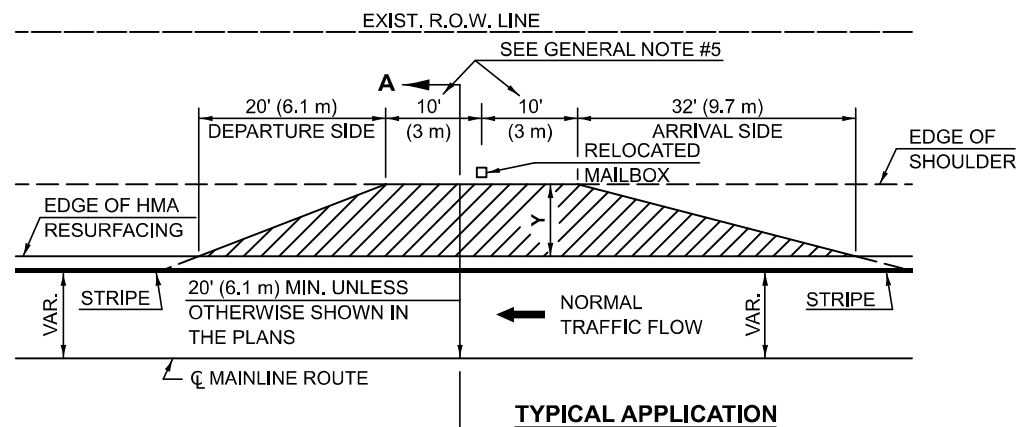
GENERAL NOTES

1. THE EXISTING SURFACE SHALL BE PREPARED IN ACCORDANCE WITH SECTION 408 OF THE STANDARD SPECIFICATIONS.
2. AGGREGATE BASE COURSE, TYPE B, 6" (150) MIN. SHALL BE USED WHERE IN THE OPINION OF THE ENGINEER THERE IS NOT SUFFICIENT BASE MATERIAL FOR THE PROPOSED MAILBOX TURNOUTS. THIS MATERIAL SHALL GENERALLY BE USED TO WIDEN ALL EXISTING MAILBOX TURNOUTS OR TO CONSTRUCT NEW MAILBOX TURNOUTS WHERE NONE NOW EXISTS.
3. ANY NECESSARY WORK BEHIND THE INCIDENTAL HMA SURFACING SHALL BE AS SHOWN IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.
4. THE TEMPORARY RELOCATION OF EXISTING MAILBOXES SHALL BE IN ACCORDANCE WITH ARTICLE 107.20 OF THE STANDARD SPECIFICATIONS.
5. WHEN MORE THAN ONE RELOCATED MAILBOX IS INCLUDED IN A PARTICULAR LOCATION THE TWO 10' (3 m) DIMENSIONS AS SHOWN ABOVE SHALL BE FROM THE END MAILBOX.
6. CROSS SLOPE SHALL BE AS SHOWN ON THE STATION CROSS SECTIONS AND/OR AS DIRECTED BY THE ENGINEER. MINIMUM 4% (1/2") DESIRABLE; MAXIMUM 8% (1")
7. WHEN MAILBOX TURNOUTS ARE CONSTRUCTED ADJACENT TO FIELD ENTRANCES, THE WIDTH OF THE INCIDENTAL HMA SURFACING CONSTRUCTED FOR THE FIELD ENTRANCE SHALL MATCH THE WIDTH OF THE PROPOSED MAILBOX TURNOUT SURFACING.
8. THE TOTAL SHOULDER WIDTH, 2.4 m (8') MINIMUM, SHALL BE PAVED BETWEEN SIDEROADS ENTRANCES AND/OR MAILBOX TURNOUTS AT LOCATIONS WHERE THE DISTANCE BETWEEN RADIUS OR TAPER CONTROL POINTS IS LESS THAN 15.0 m (50').
9. MAILBOXES SHALL BE MOUNTED SUCH THAT THE FACE OF THE MAILBOX IS 6" (150 mm) TO 12" (300 mm) AND THE POST A MINIMUM OF 24" (600 mm) FROM THE EDGE OF THE TURNOUT SURFACING.

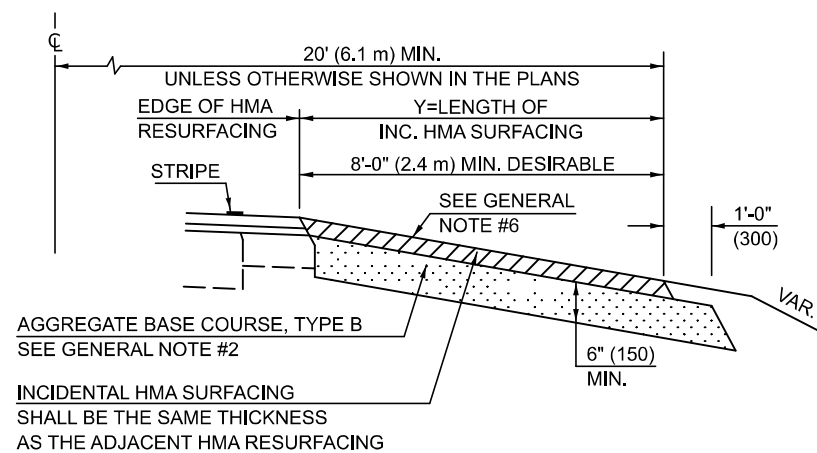
PROJECTS WITH RECONSTRUCTION

("3R" IMPROVEMENTS)

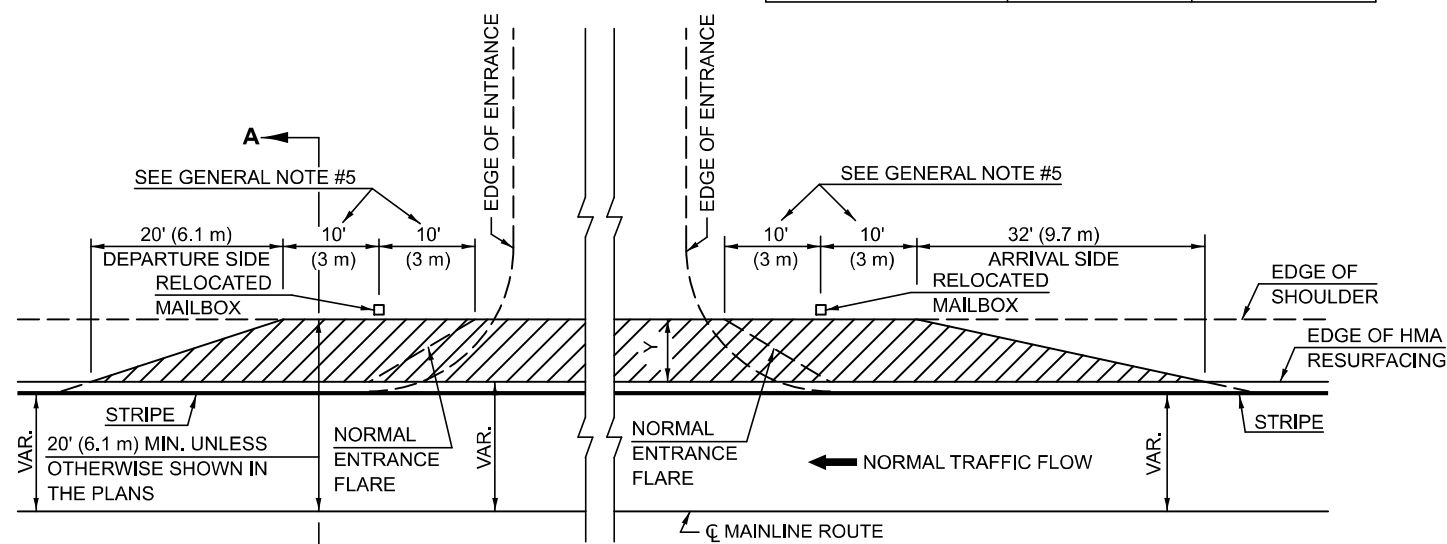
WIDTH OF SHOULDER	4'-0" - 8'-0" (1.2 m - 2.4 m)	10'-0" (3.0 m)
WIDTH OF TURNOUT "Y"	8'-0" (2.4 m)	8'-0" - 10'-0" (2.4 m - 3.0 m)



TYPICAL APPLICATION



SECTION A-A



TYPICAL MAILBOX TURNOUT PLACEMENT ADJACENT TO ENTRANCE

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

DISTRICT 5 DETAIL NO. 4080050B

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
500	(116)I	VERMILION	21	13
CONTRACT NO. 70G24				

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MAILBOX TURNOUT (RURAL)

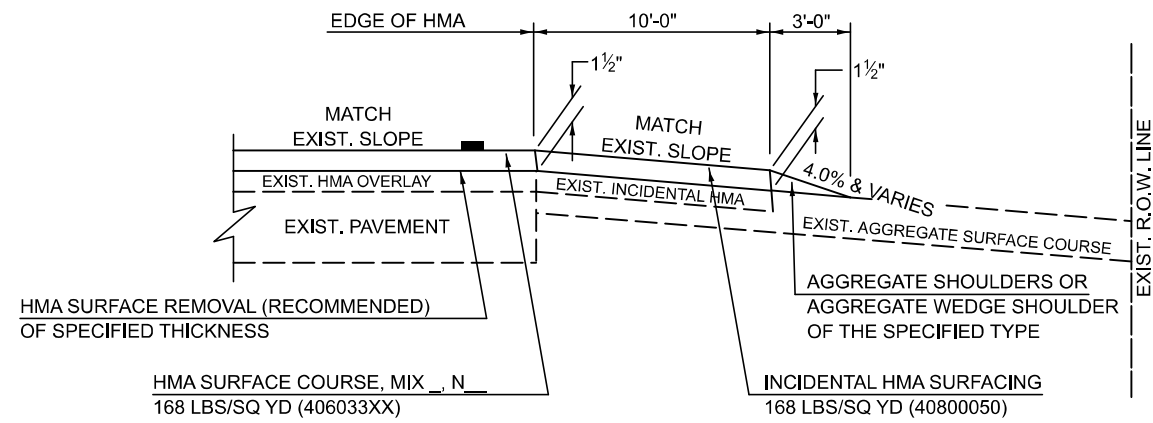
SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. TO STA.

USER NAME = Eric.Thomas	DESIGNED -	REVISD - 12/2006 TJB
	DRAWN -	REVISD - 9/2007 KAG
PLOT SCALE = 0.16666633' / in.	CHECKED -	REVISD - 8/2022 JWS
PLOT DATE = 12/7/2022	DATE -	REVISD -

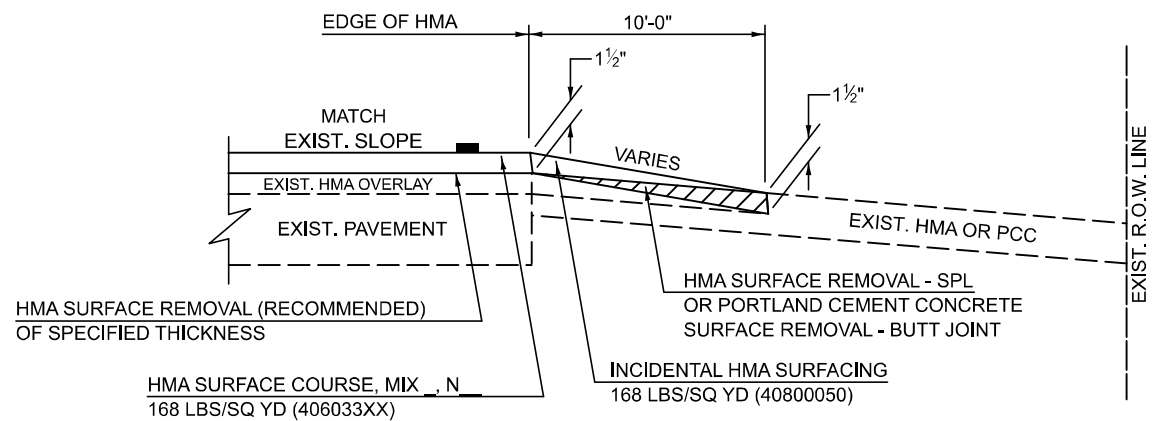
MODEL: SHT_PLAN
FILE NAME: C:\Bentley\CONNECT\10110\Organization-Civil\DOT_Standards\CeilIDOT_Sheets.cel

PROJECTS WITHOUT RECONSTRUCTION

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

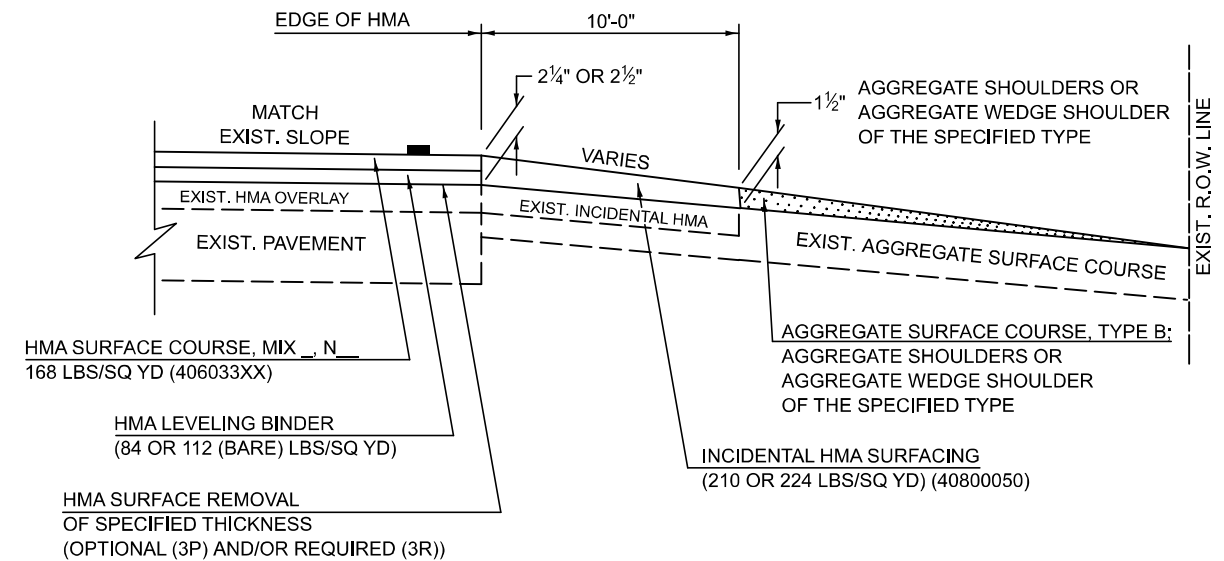


EXISTING AGGREGATE ENTRANCE

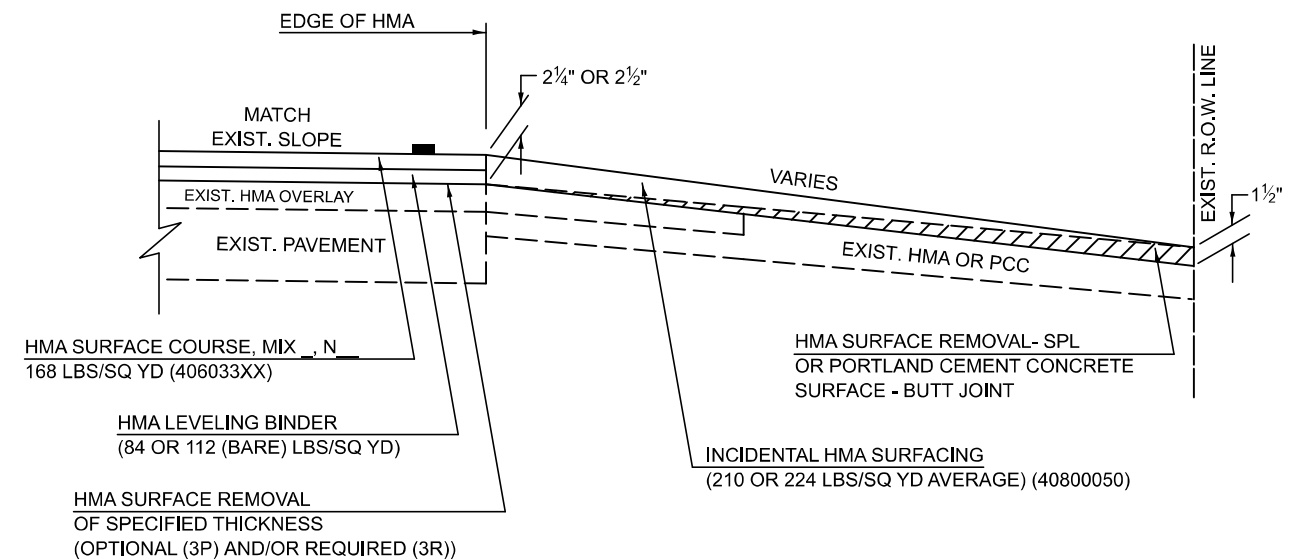


EXISTING HMA OR PCC ENTRANCE

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



EXISTING AGGREGATE ENTRANCE



EXISTING HMA OR PCC ENTRANCE

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

DISTRICT 5 DETAIL NO. 4080050C

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
500	(116)I	VERMILION	21	14
CONTRACT NO. 70G24				
ILLINOIS FED. AID PROJECT				

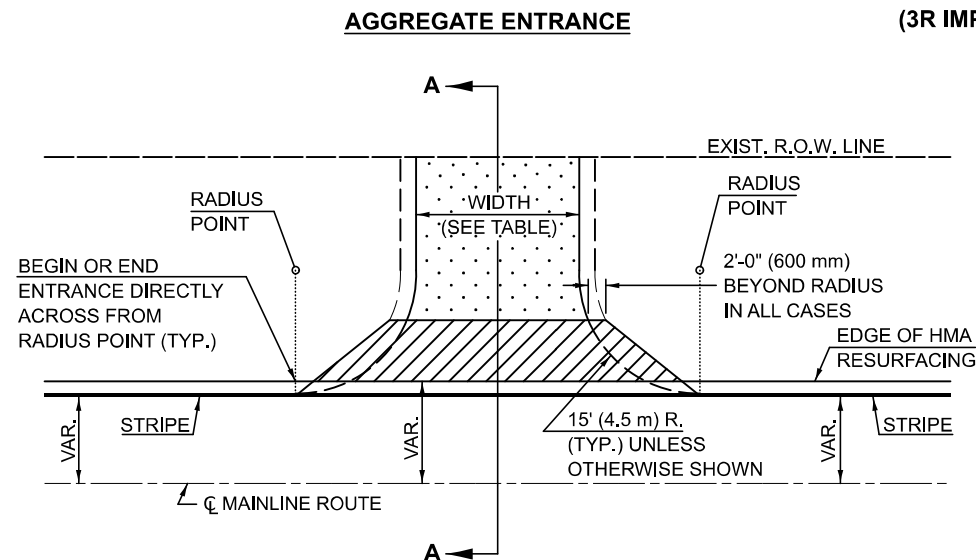
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

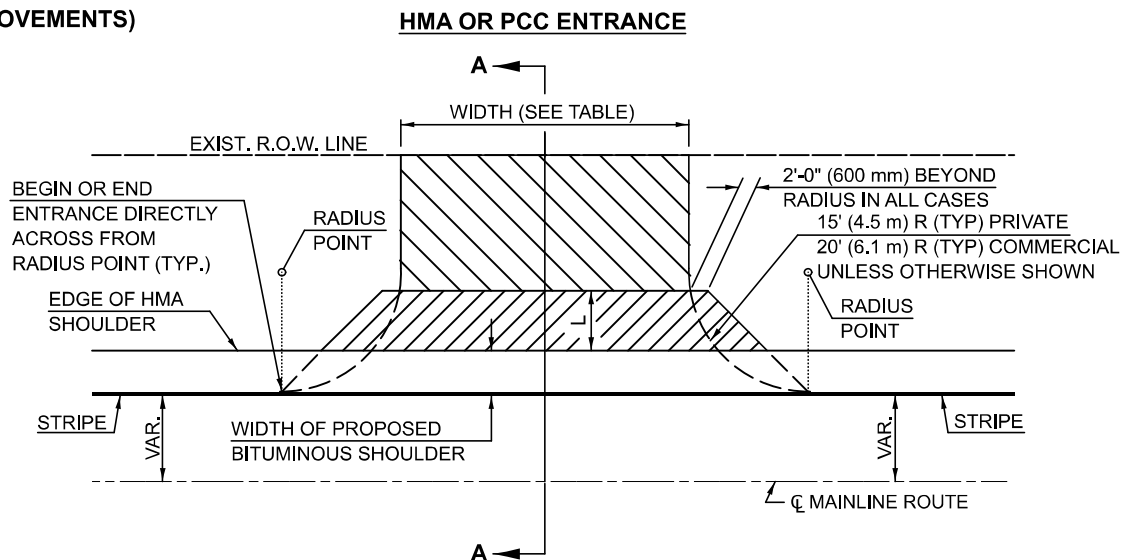
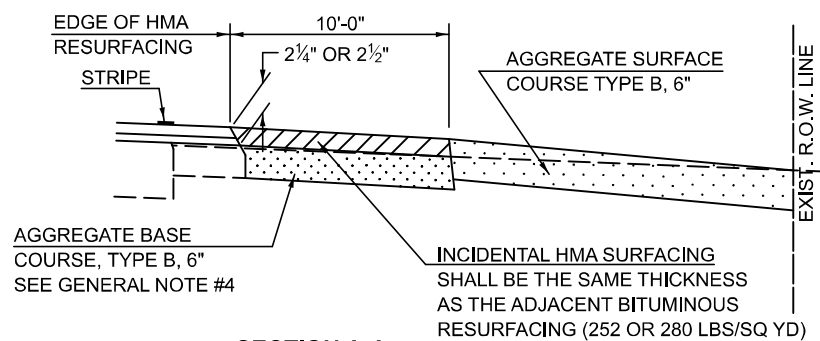
SCALE: 1"=50' SHEET 1 OF 2 SHEETS STA. TO STA.

USER NAME = Eric.Thomas	DESIGNED -	REVISED - 05/08 KJT
	DRAWN -	REVISED - 04/10 KJT
PLOT SCALE = 0.16666833' / in.	CHECKED -	REVISED - 3/6/17 SWN
PLOT DATE = 12/7/2022	DATE -	REVISED - 8/25/22 JWS

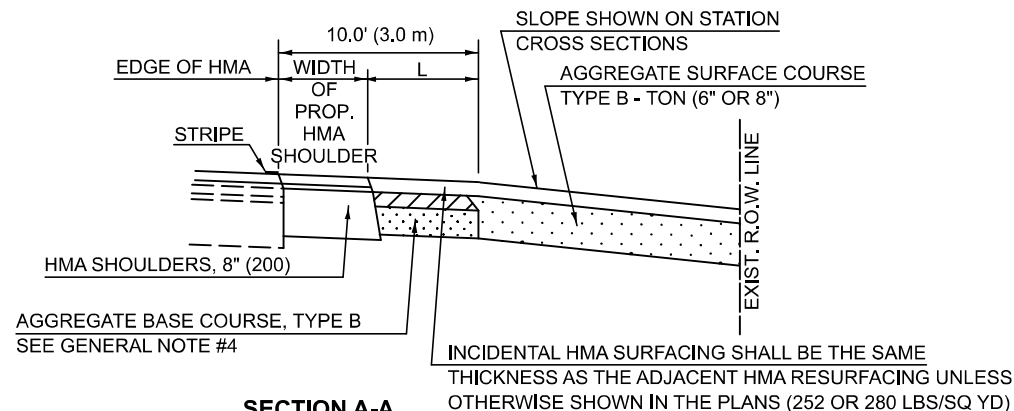
PROJECTS WITH RECONSTRUCTION



TYPICAL APPLICATION



TYPICAL APPLICATION



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 MEMO 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		
	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							
						2 LANE, 2 WAY			2 LANE, 2 WAY			2 LANE, 2 WAY			
RADIUS (FT)	15	25	40	30		20	30	50	resurface existing configuration; existing aggregate or earth entrances shall have the continuation of aggregate shoulders placed behind them						
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)	1:10	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							

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

DISTRICT 5 DETAIL NO. 4080050C

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
500	(116)I	VERMILION	21	15
CONTRACT NO. 70G24				

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

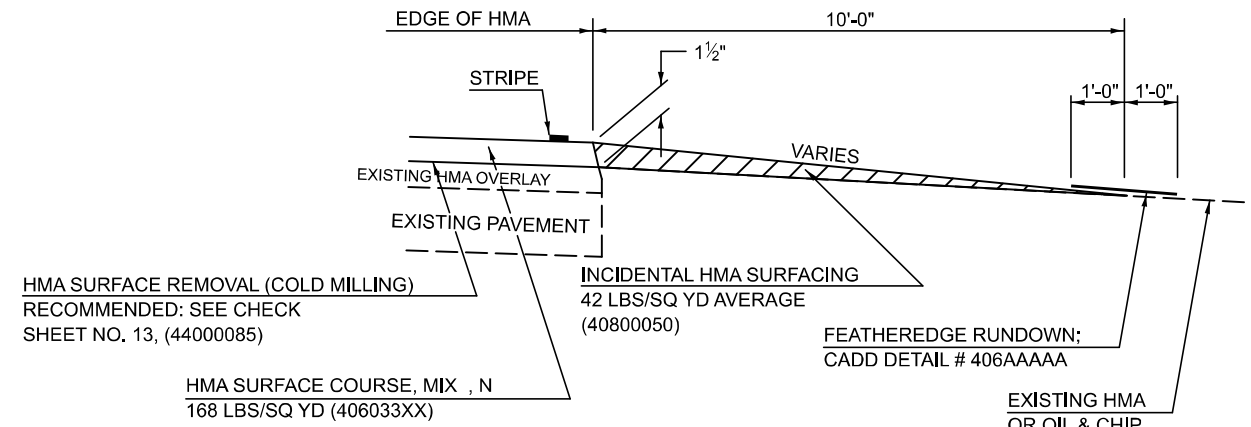
SCALE: 1"=50' SHEET 2 OF 2 SHEETS STA. TO STA.

USER NAME = Eric.Thomas	DESIGNED -	REVISED - 05/08 KJT
	DRAWN -	REVISED - 04/10 KJT
PLOT SCALE = 0.16666833' / in.	CHECKED -	REVISED - 3/6/17 SWN
PLOT DATE = 12/7/2022	DATE -	REVISED - 8/25/22 JWS

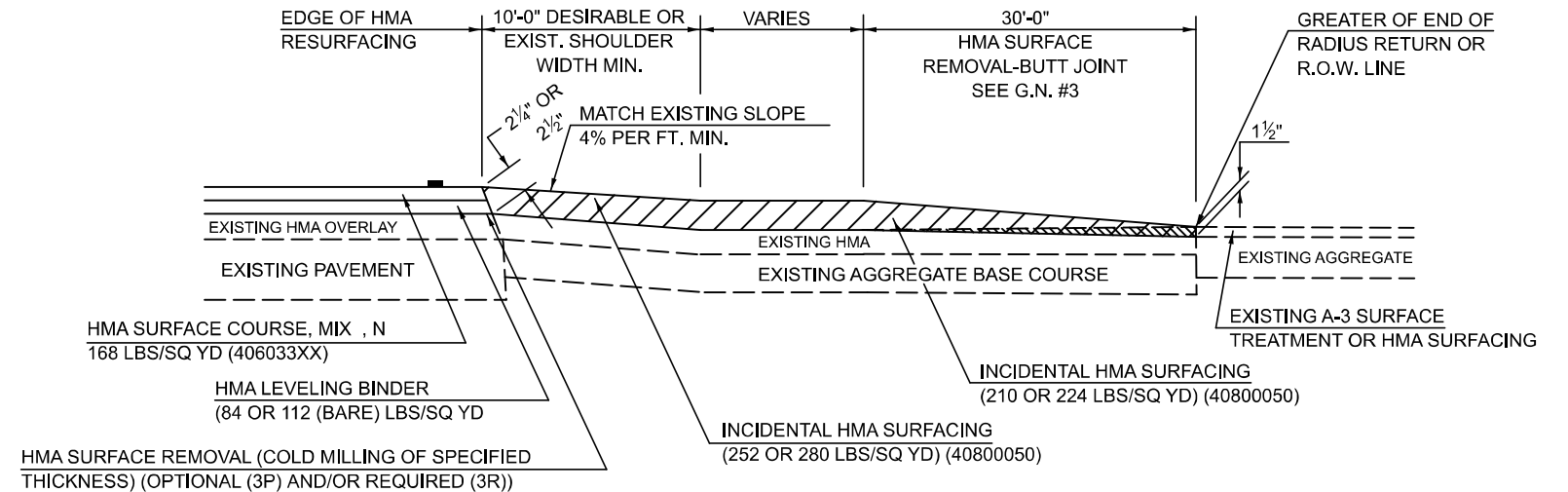
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PROJECTS WITHOUT RECONSTRUCTION

**S.M.A.R.T. IMPROVEMENTS
(ALSO CONTRACT MAINTENANCE)**

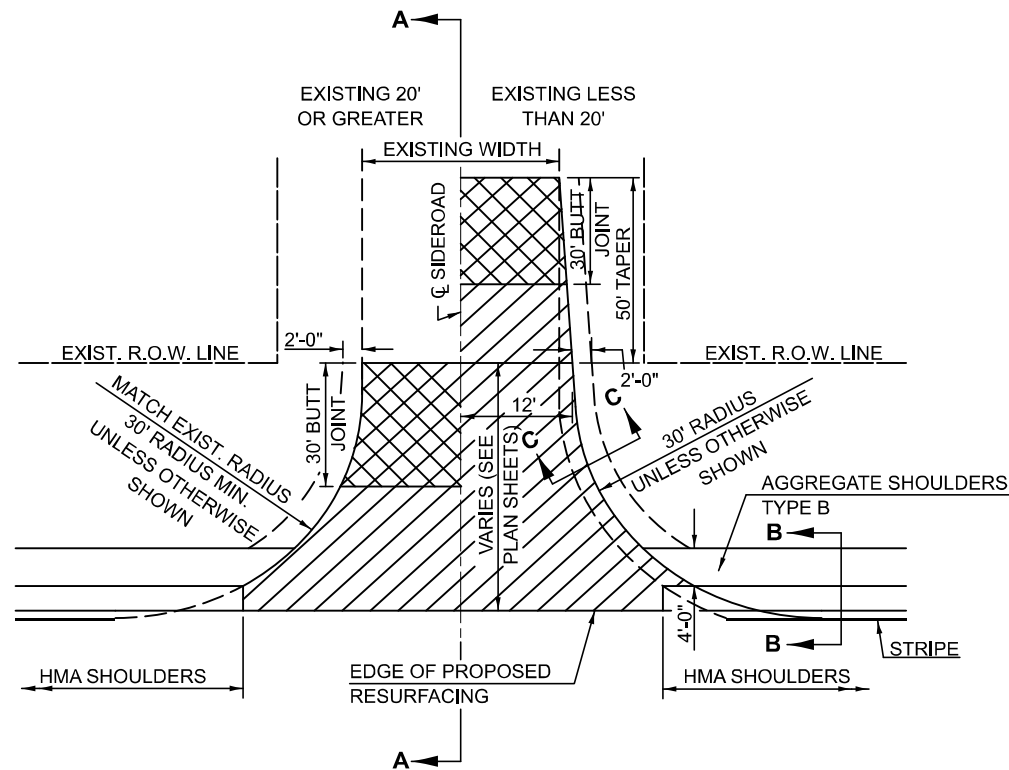


"3P" OR "3R" IMPROVEMENTS

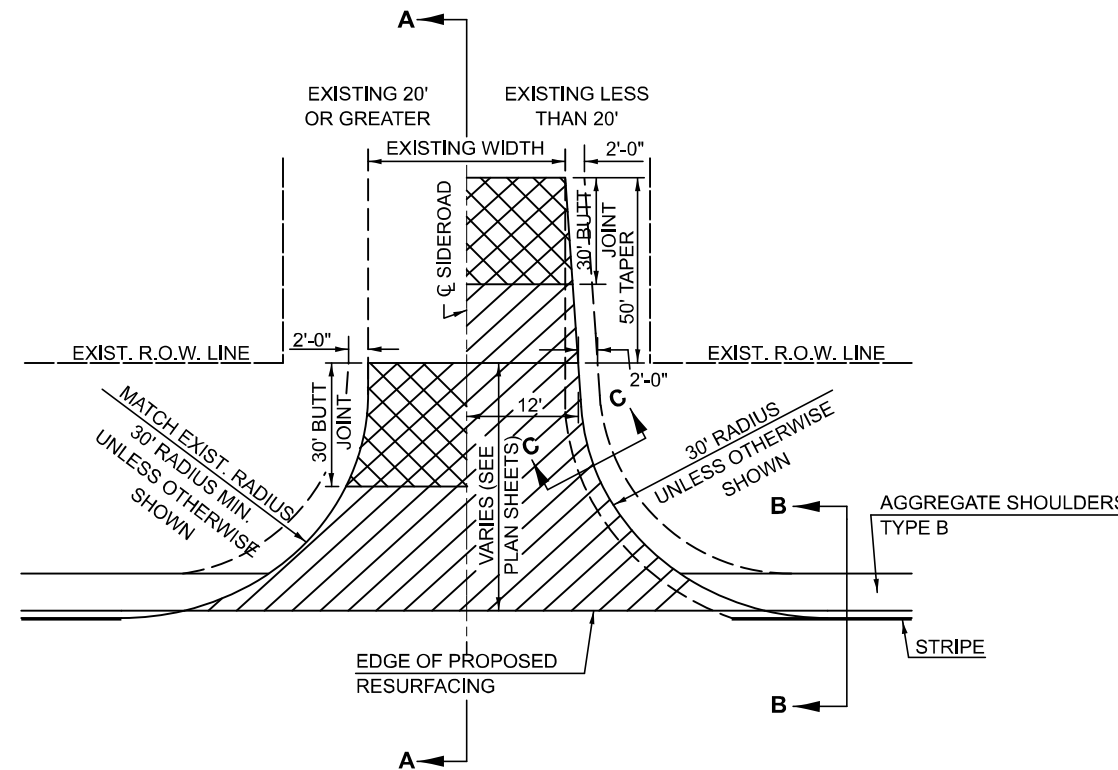


**PROJECTS WITH RECONSTRUCTION
("3R" IMPROVEMENTS)**

WITH HMA SHOULDER



WITHOUT HMA SHOULDER



GENERAL NOTES

1. THE EXISTING SURFACE SHALL BE PREPARED IN ACCORDANCE WITH SECTION 408 OF THE STANDARD SPECIFICATIONS
2. PROPOSED SIDEROAD GRADES SHALL BE AS SHOWN IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.
3. MAJOR SIDEROAD/SIDESTREETS (>400 ADT) SHALL HAVE "BUTT JOINTS" CONSTRUCTED WHETHER THE EXISTING ENTRANCE IS HMA OR PCC. MINOR SIDEROAD/SIDESTREETS (<400 ADT) SHALL HAVE "FEATHEREDGE RUNDOWNS".
4. AGGREGATE BASE COURSE, TYPE B OF THE THICKNESS SPECIFIED IN THE PLANS 6" MIN. SHALL BE USED WHERE IN THE OPINION OF THE ENGINEER THERE IS NOT 6" EXISTING BASE MATERIAL FOR THE PROPOSED SIDEROAD RETURNS. THIS MATERIAL SHALL BE USED TO WIDEN SIDEROAD RETURNS.
5. THE AGGREGATE BASE COURSE SHALL BE CONSTRUCTED 1' WIDER THAN THE SURFACE DIMENSIONS.
6. AGGREGATE SHOULDERS, TYPE B WILL BE WRAPPED AROUND THE SIDEROAD RETURNS. TAPER WIDTH FROM 4' ALONG MAINLINE TO 2' AT BACK OF RETURN.

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

DISTRICT 5 DETAIL NO. 408000AA

USER NAME = Eric.Thomas	DESIGNED -	REVISED - 12/06 TJB
	DRAWN -	REVISED - 09/07 KAG
PLOT SCALE = 0.16666833' / in.	CHECKED -	REVISED - 12/09 KJT
PLOT DATE = 12/7/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

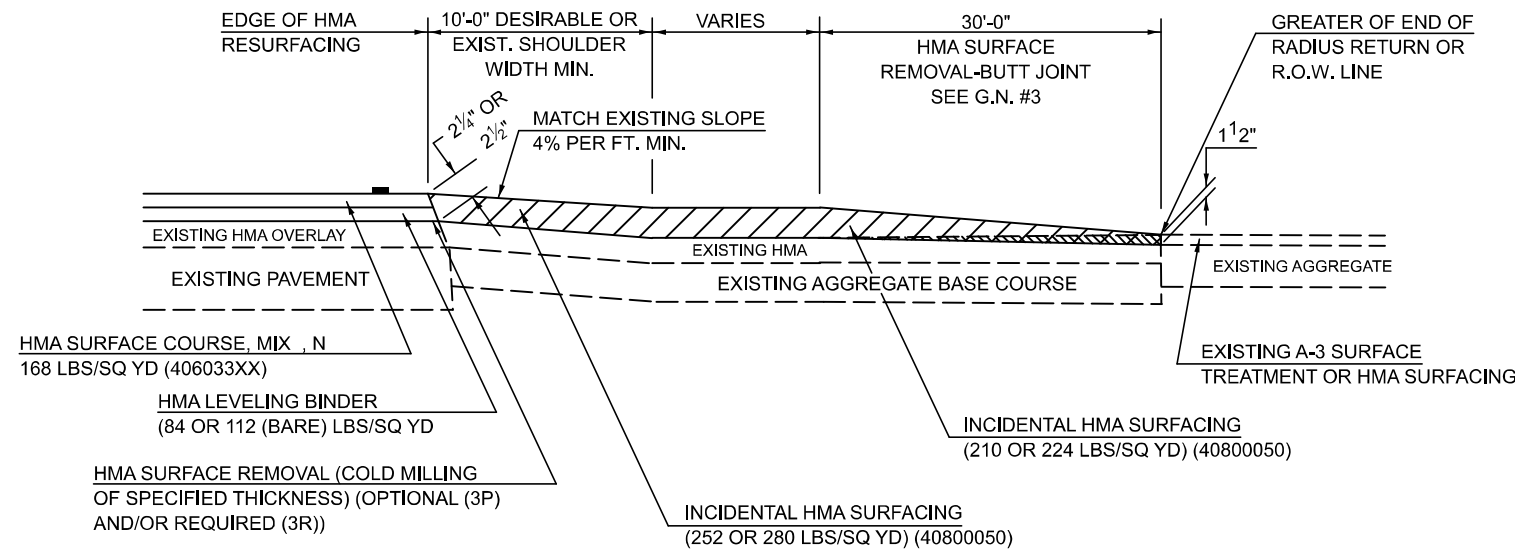
SIDEROAD & SIDESTREETS (RURAL)

SCALE: 1"=50' SHEET 1 OF 2 SHEETS STA. TO STA.

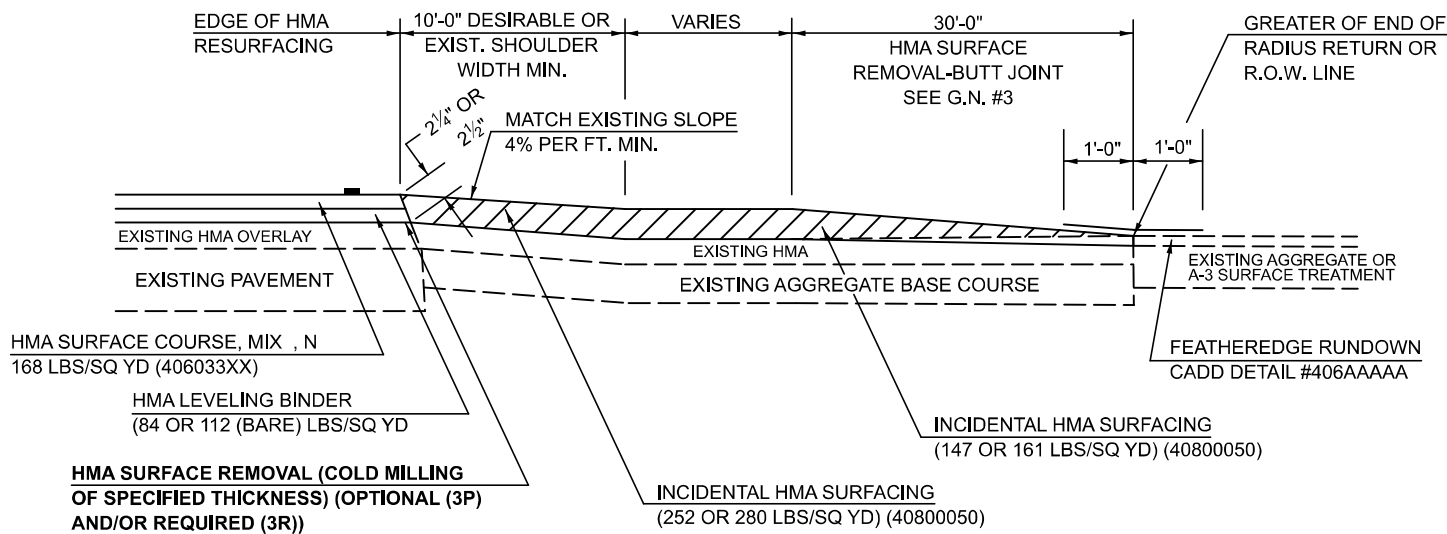
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
500	(116)I	VERMILION	21	16
CONTRACT NO. 70G24				
ILLINOIS FED. AID PROJECT				

MODEL: SHT_PLAN
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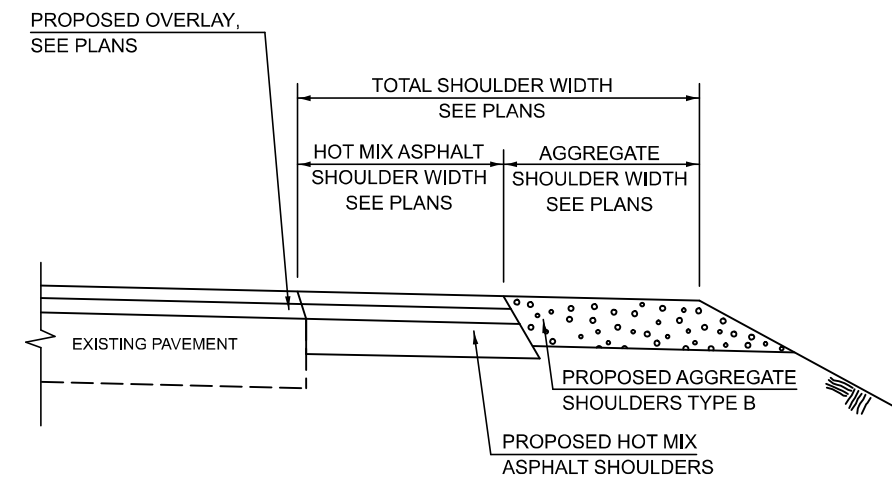
**SECTION A-A
EXISTING HMA OR PCC SIDEROAD (>400 ADT)**



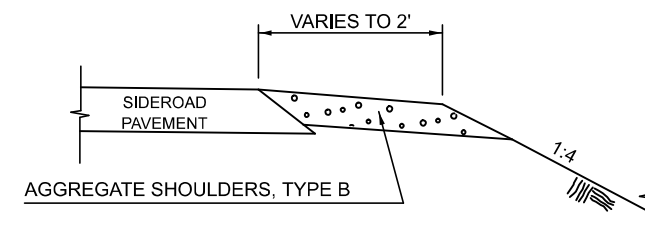
**SECTION A-A
EXISTING AGGREGATE OR SEAL COAT SIDEROAD (<400 ADT)**



RURAL SIDEROAD DESIGN STANDARDS (PPM 40-06)											
DESIGN ELEMENT	New Construction & 3R (Existing Width Less Than 20 ft)			3R (Existing Width 20 ft or Greater) & 3P			SMART & Contract Maintenance				
	min.	des.	max.	min.	des.	max.	min.	des.	max.		
SURFACE WIDTH (FT); (Measured at end of radius or row line; greatest distance from edge of traveled way)	24	24	Coordinate with Geometrics Engineer	Resurface existing configuration to completion of radius return or row line; greatest distance from edge of traveled way; major sideroads (> 400 adt) shall have "butt joints" constructed whether the entrance is hma or pcc; minor sideroads (< 400 adt) shall have "featheredge rundown" as shown in district cadd detail 406AAAAA						resurface existing configuration with the completion of a 10 ft. featheredge rundown for ALL sideroads as shown in district cadd detail 406AAAAA	
RADIUS (FT)	30	30									
SHOULDER WIDTH (FT)	4	8	10								
SHOULDER SLOPE (%)	2	4	12								
ENTRANCE GRADE (%)	1	1 to 4	4								
BREAKOVER (%)	0	5	10								
SIDE SLOPE (FT)	1:10	1:6	1:4								
INTERSECTION ANGLE	60	75 to 90									
SURFACE TYPE											
INCIDENTAL HMA SURFACING (INCH)	4			taper from 2 1/4" to 1 1/2" or featheredge			taper from 1 1/2" to featheredge				
AGGREGATE BASE COURSE, TYPE A (INCH)	8	4		if applicable use item: 35800100 Preparation of Base							
PCC PAVEMENT (INCH)		8									



**SECTION B-B
MAINLINE SHOULDER TREATMENT**



**SECTION C-C
SIDEROAD SHOULDER TREATMENT**

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

DISTRICT 5 DETAIL NO. 40800AA

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
500	(116)I	VERMILION	21	17
CONTRACT NO. 70G24				
ILLINOIS FED. AID PROJECT				

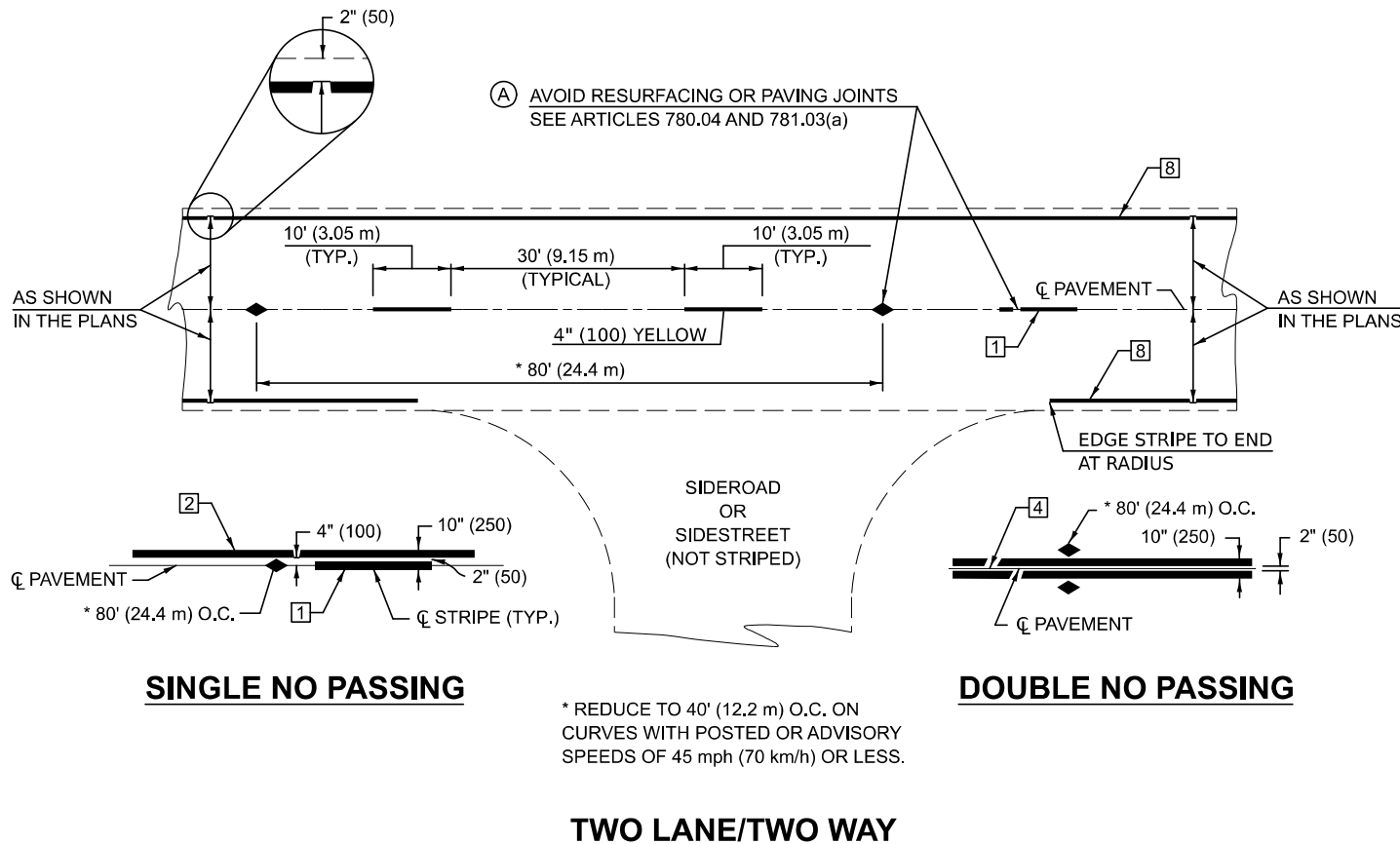
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SIDEROAD & SIDESTREETS (RURAL)

SCALE: 1"=50' SHEET 2 OF 2 SHEETS STA. TO STA.

USER NAME = Eric.Thomas	DESIGNED -	REVISD - 12/06 TJB
	DRAWN -	REVISD - 09/07 KAG
PLOT SCALE = 0.16666833' / in.	CHECKED -	REVISD - 12/09 KJT
PLOT DATE = 12/7/2022	DATE -	REVISD -

MODEL: SHT_PLAN
FILE NAME: C:\Bentley\CONNECT101\Organization\Civil\DOT_Standards\Cadd\DOT_Sheets.cad



SINGLE NO PASSING

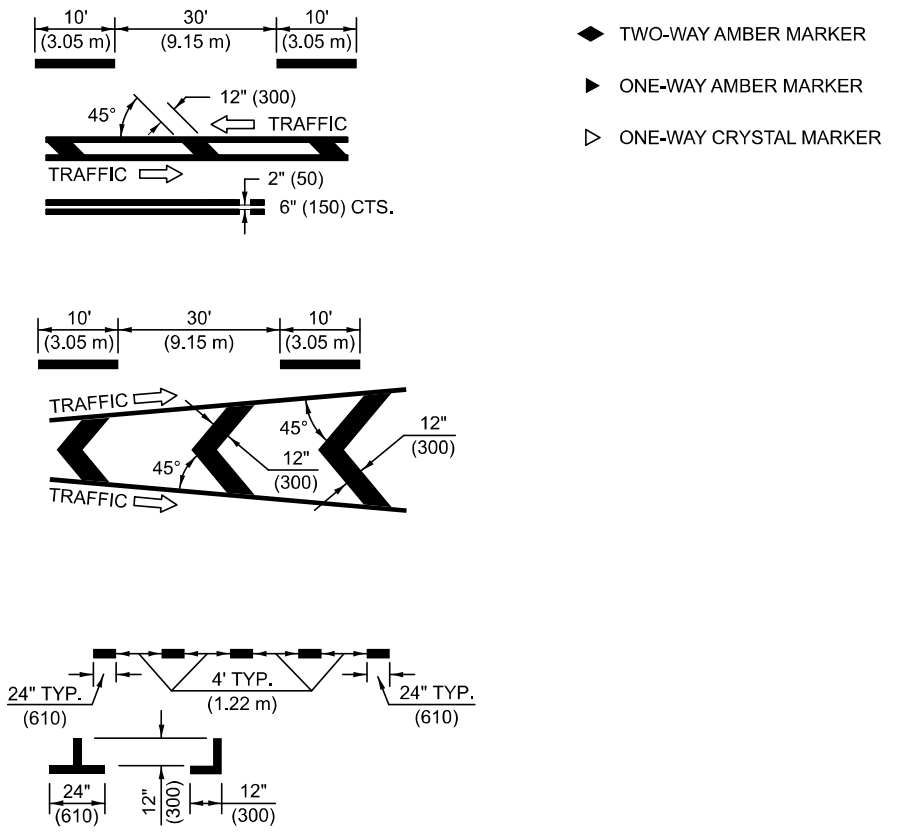
DOUBLE NO PASSING

TWO LANE/TWO WAY

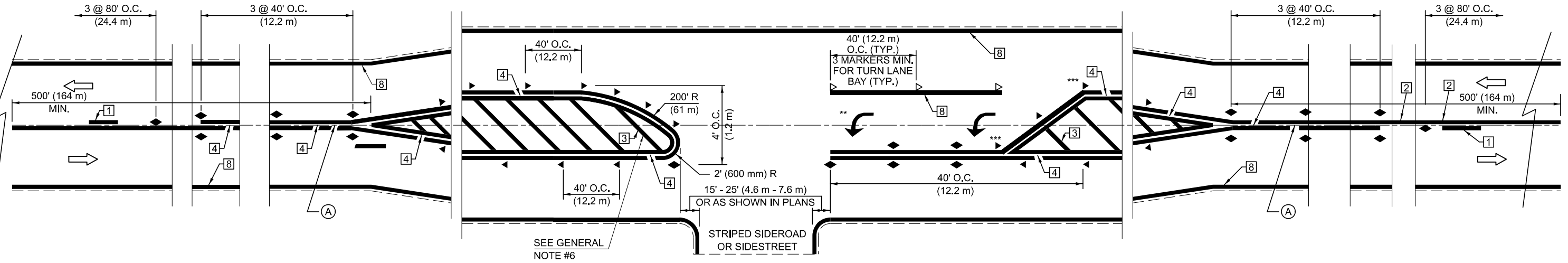
TYPICAL PAVEMENT MARKING LENGEND

- 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 LENGEND



RURAL LEFT TURN



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

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

DISTRICT 5 DETAIL NO. 7800AAAA

MODEL: SHT_PLAN
FILE NAME: C:\Bentley\CONNECT101\Organization\Civil\DOT_Standards\Civil\DOT_Sheets.cel

USER NAME = Eric.Thomas	DESIGNED -	REVISD - 4/2014 JLA
	DRAWN -	REVISD - 3/2019 SWN
PLOT SCALE = 0.16666833' / in.	CHECKED -	REVISD - 8/2022 JLA
PLOT DATE = 12/7/2022	DATE -	REVISD - 9/2022 JWS

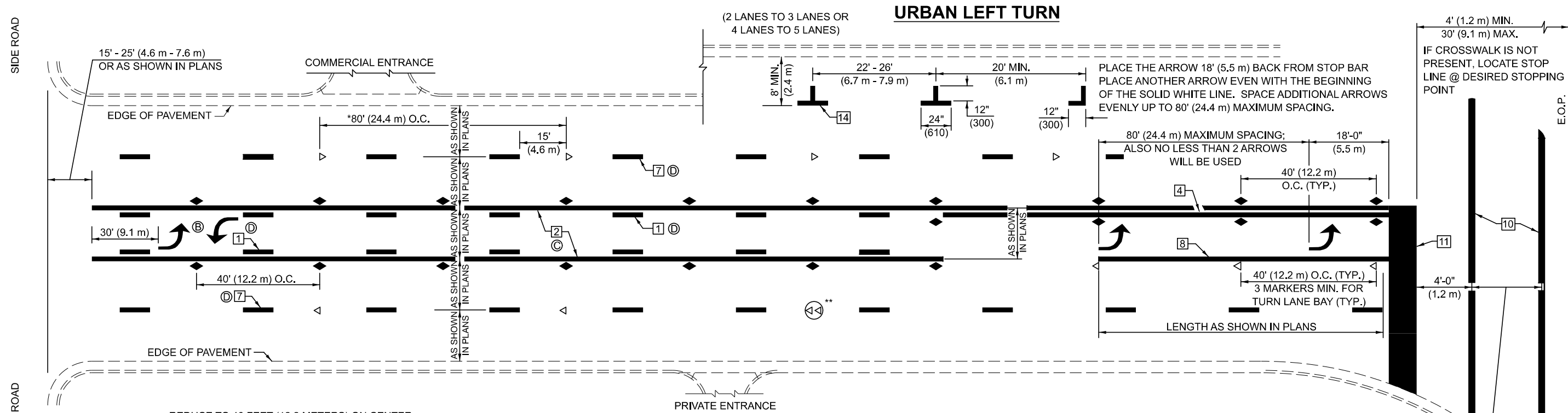
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

SCALE: 1"=50' SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
500	(116)I	VERMILION	21	18
CONTRACT NO. 70G24				
ILLINOIS FED. AID PROJECT				

MODEL: SHT_PLAN
 FILE NAME: C:\Bentley\CONNECT1011\Organization-Civil\DOT_Standards\CallIDOT_Sheets.cad

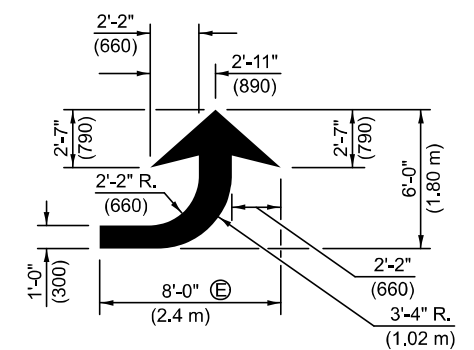


- * REDUCE TO 40 FEET (12.2 METERS) ON CENTER ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.
- ** DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED AND SPACED AS SHOWN IN HIGHWAY STANDARD 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED HIGHWAYS.

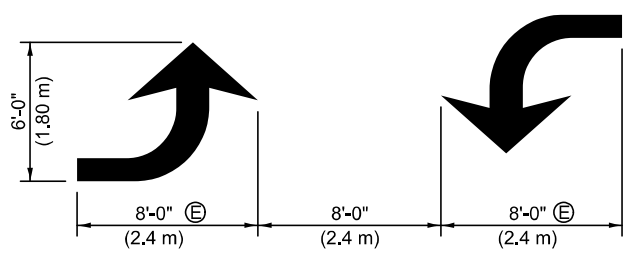
BLOOMINGTON-NORMAL CITY LIMITS ONLY

GENERAL NOTES:

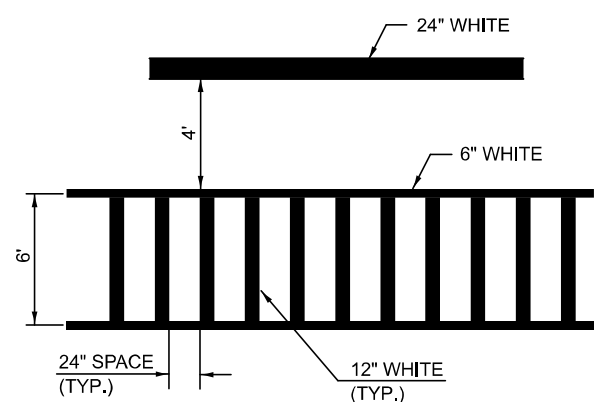
- (B) TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE.
- (C) THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.
- (D) 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.
- (E) USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)



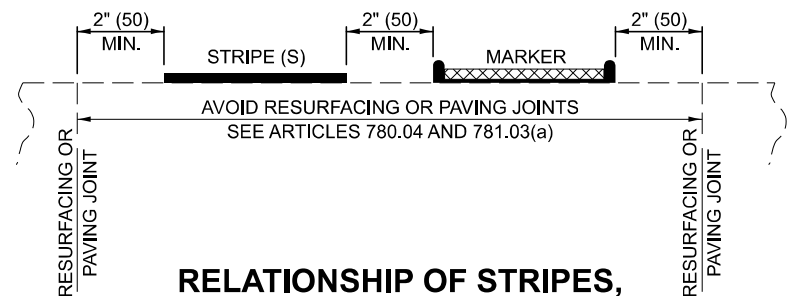
LEFT ARROW
 REVERSE FOR RIGHT ARROW
 AREA = 15.6 SQ. FT. (1.47 m)
 (WHITE)



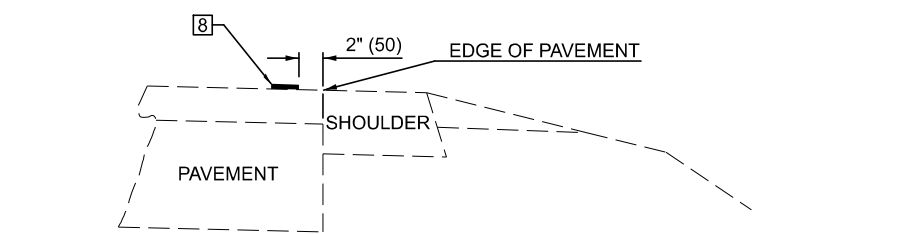
TYPICAL DOUBLE TURN ARROWS (WHITE)



TYPICAL SPACING FOR CROSSWALKS & STOP BARS



RELATIONSHIP OF STRIPES, MARKERS AND JOINTS



RELATIONSHIP OF EDGE LINE TO EDGE OF PAVEMENT
 (SAFETY SHOULDER OR PAVED SURFACE)
 SEE ARTICLE 780.04

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

DISTRICT 5 DETAIL NO. 7800AAAA

USER NAME = Eric.Thomas	DESIGNED -	REVISED - 4/2014 JLA
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PLOT SCALE = 0.16666633' / in.	CHECKED -	REVISED - 8/2022 JLA
PLOT DATE = 12/7/2022	DATE -	REVISED - 9/2022 JWS

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

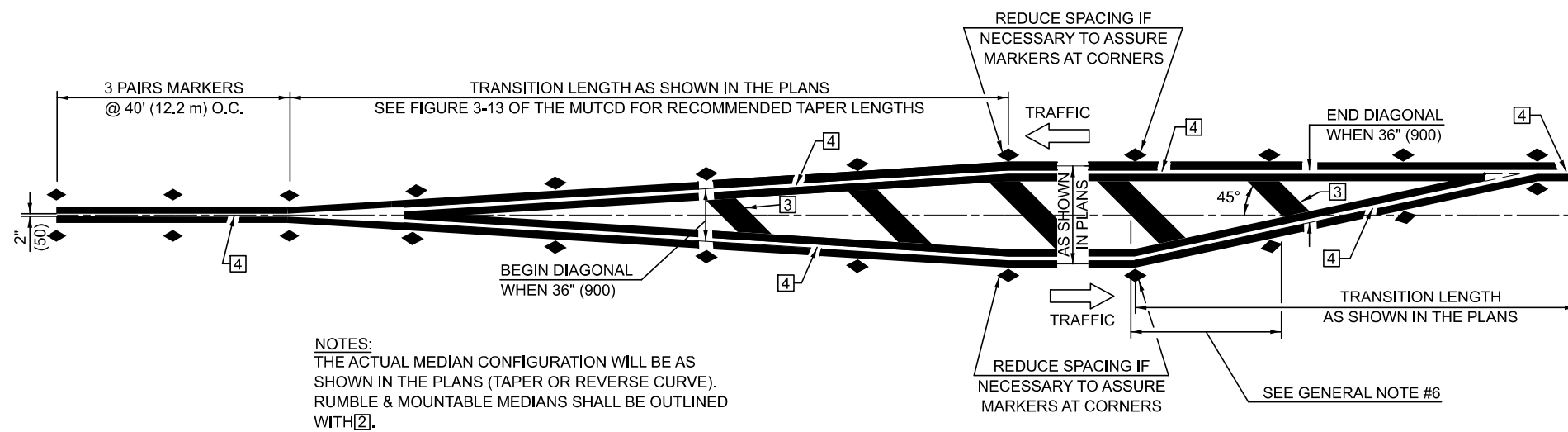
**PAVEMENT MARKING AND MARKERS
 (RURAL & URBAN APPLICATIONS)**

SCALE: 1"=50' SHEET 2 OF 4 SHEETS STA. TO STA.

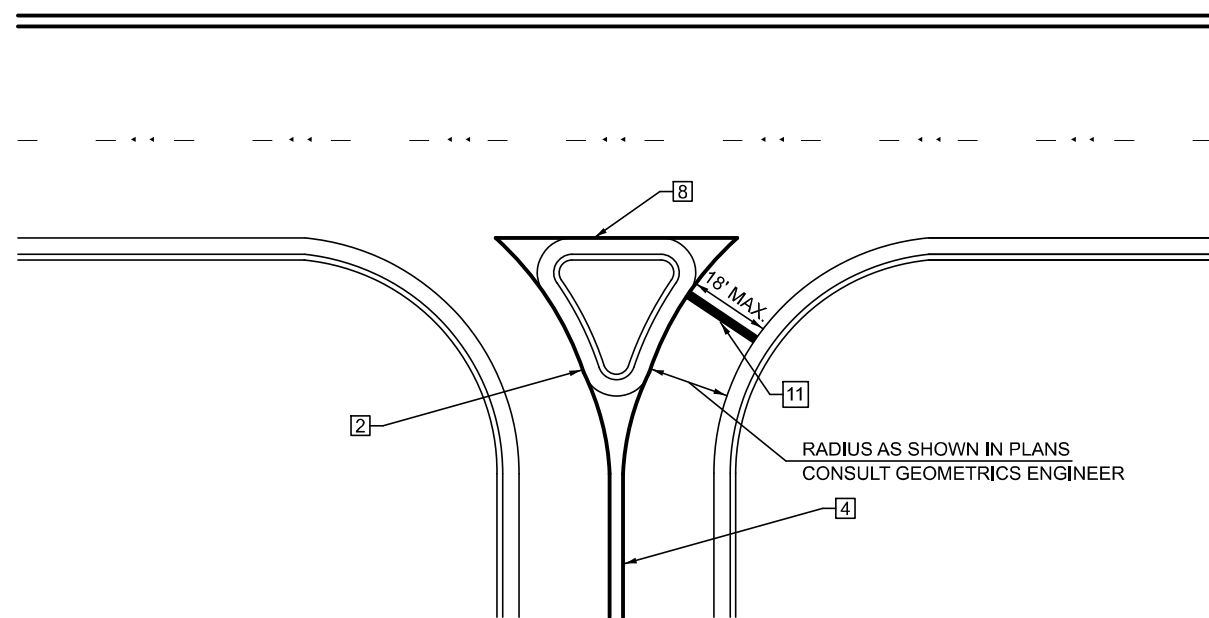
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
500	(116)I	VERMILION	21	19
CONTRACT NO. 70G24				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

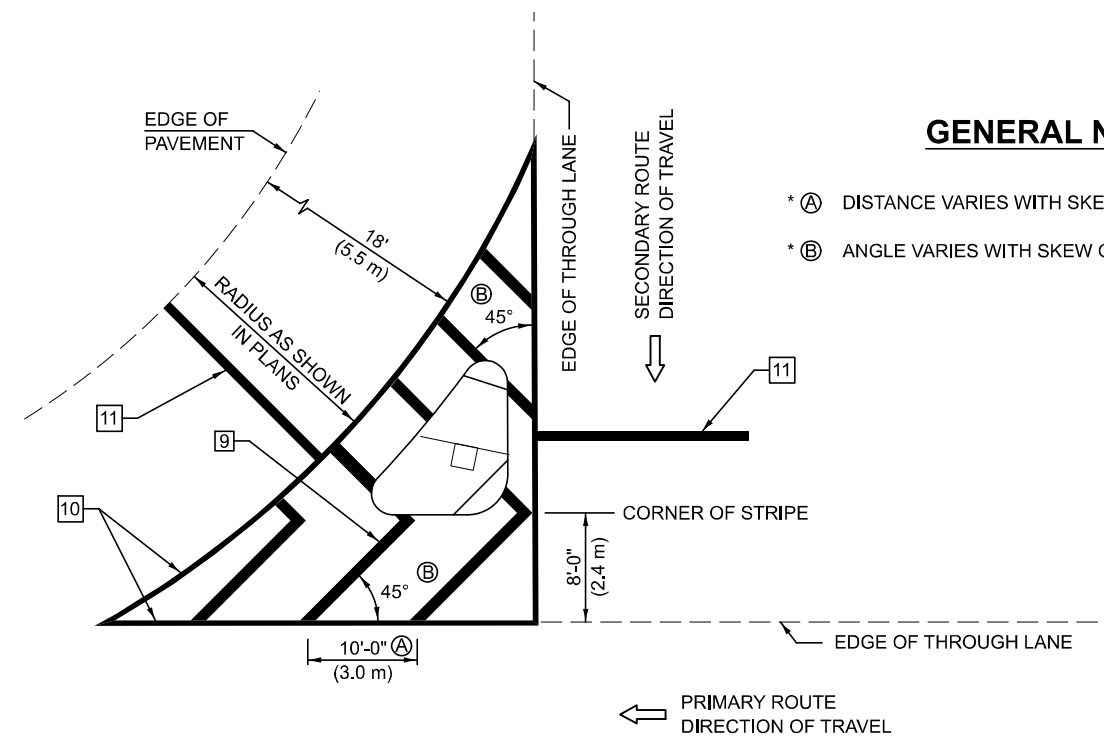
1. WHEN MEDIANS ARE PRESENT, PAVEMENT MARKINGS ARE TO BE PLACED ADJACENT TO MEDIANS.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. A STRIPING KEY IS AVAILABLE ELSEWHERE AND 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)



TYPICAL MEDIAN TRANSITIONS



RIGHT IN - RIGHT OUT ACCESS



GENERAL NOTES

- * (A) DISTANCE VARIES WITH SKEW OF INTERSECTION.
- * (B) ANGLE VARIES WITH SKEW OF INTERSECTION.

ISLAND

* FOR RIGHT TURN LANE AND ISLAND STRIPING CONSULT GEOMETRICS ENGINEER.

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

DISTRICT 5 DETAIL NO. 7800AAAA

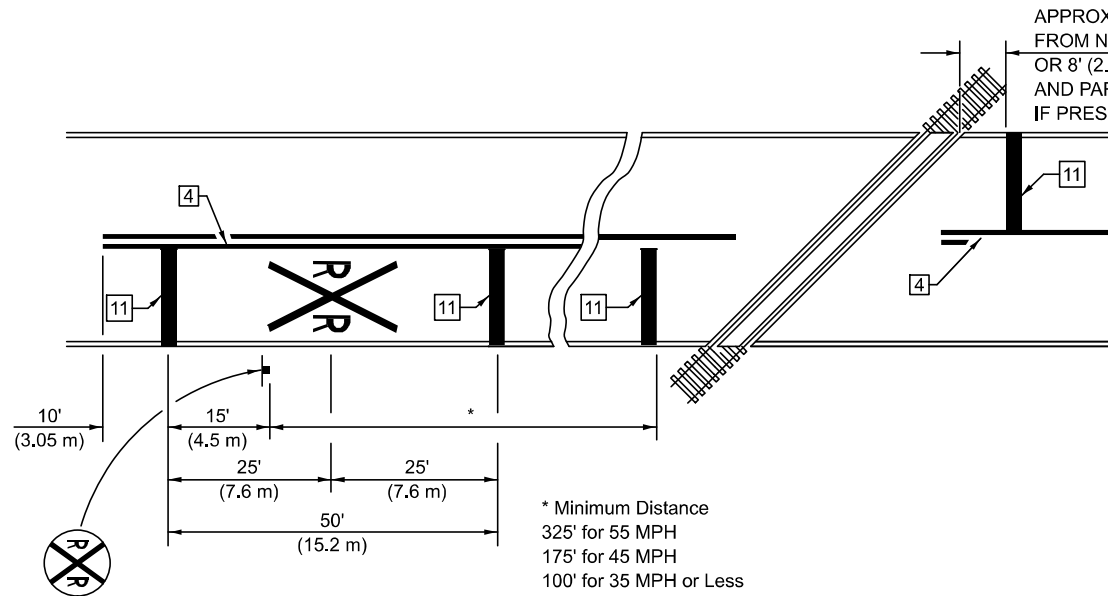
USER NAME = Eric.Thomas	DESIGNED -	REVISED - 4/2014 JLA
PLOT SCALE = 0.16666833' / in.	DRAWN -	REVISED - 3/2019 SWN
PLOT DATE = 12/7/2022	CHECKED -	REVISED - 8/2022 JLA
	DATE -	REVISED - 9/2022 JWS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND MARKERS
(RURAL & URBAN APPLICATIONS)

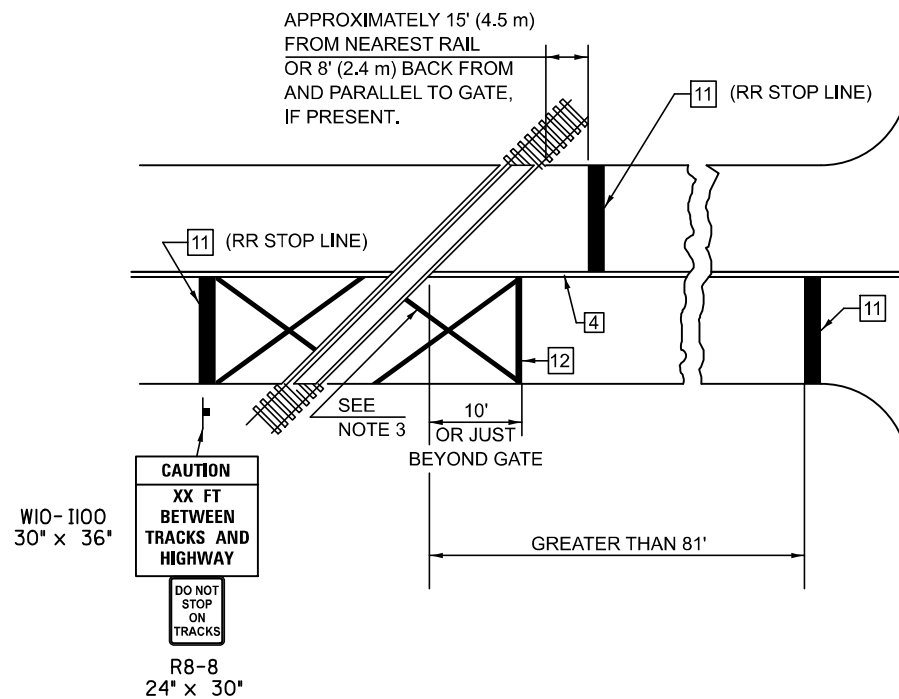
SCALE: 1"=50' SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
500	(116)I	VERMILION	21	20
CONTRACT NO. 70G24				
ILLINOIS FED. AID PROJECT				

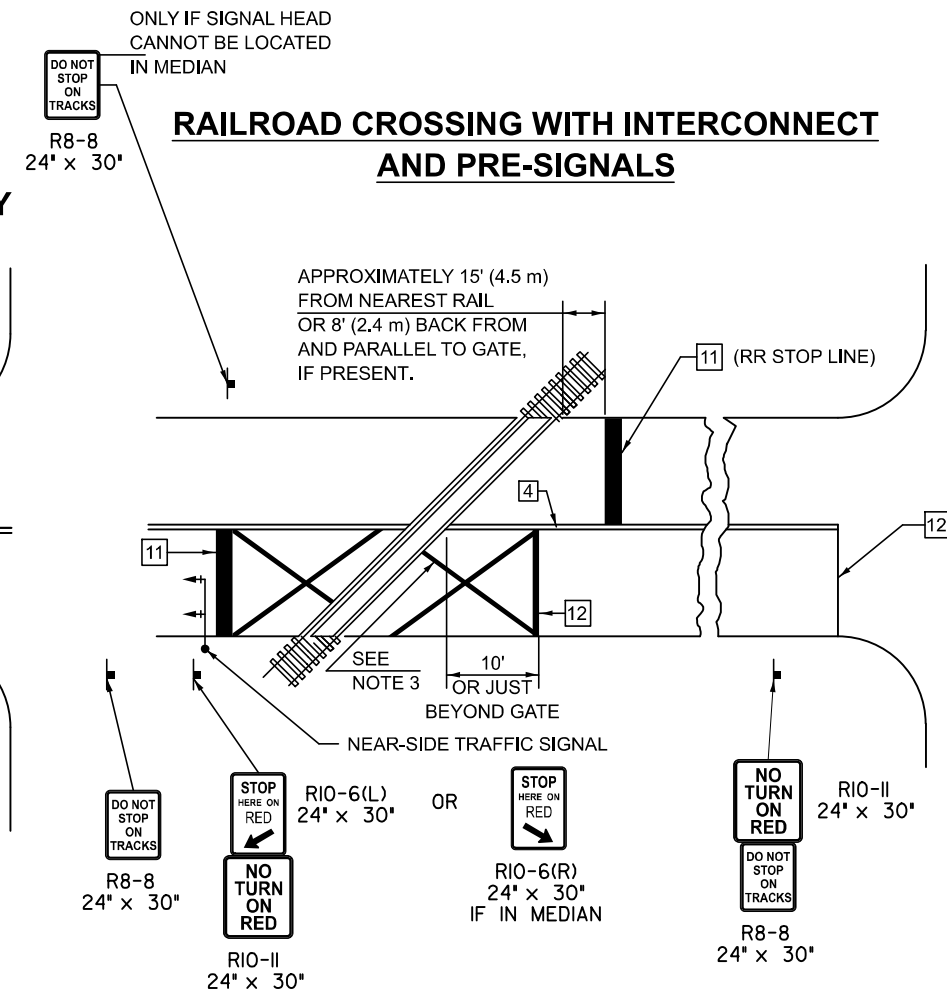


PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING

RAILROAD CROSSING WITH INTERCONNECT ONLY



RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



GENERAL NOTES

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

SUPPLEMENT 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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
500	(116)I	VERMILION	21	21
CONTRACT NO. 70G24				

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND MARKERS (RURAL & URBAN APPLICATIONS)

SCALE: 1"=50' SHEET 4 OF 4 SHEETS STA. TO STA.

USER NAME = Eric.Thomas	DESIGNED -	REVISED - 4/2014 JLA
PLOT SCALE = 0.16666833" / in.	DRAWN -	REVISED - 3/2019 SWN
PLOT DATE = 12/7/2022	CHECKED -	REVISED - 8/2022 JLA
	DATE -	REVISED - 9/2022 JWS