08-04-2017 LETTING ITEM 040

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

RTE. SECTION COUNTY SHEETS NO. 1412 (106,107,108,108X)RS-2 HENDERSON 10 1 1 LINOIS CONTRACT NO. 68D87

FOR INDEX OF SHEETS, SEE SHEET NO. 2

HIGHWAY STANDARDS

701301-04

701306-03

701311-03

701901-06

DISTRICT STANDARDS

440001

780001

DESIGN DESIGNATION
Major Collector

IL 94:

ADT = 800 (2015)

MU = 10% (2015)

SU = 8.57% (2015)

0 100' 200' 300'— 1"= 100' 0 50' 100' 1"= 50' 0 50' 100' 1"= 40' 0 50' 100' 1"= 30' 0 50' 100' 100' 1"= 20'

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.I

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

OR 811

0

PROJECT ENGINEER: MIKE LEWIS 309/671-3454
PROJECT MANAGER: ELIAS ELDERZI 309/671-3459

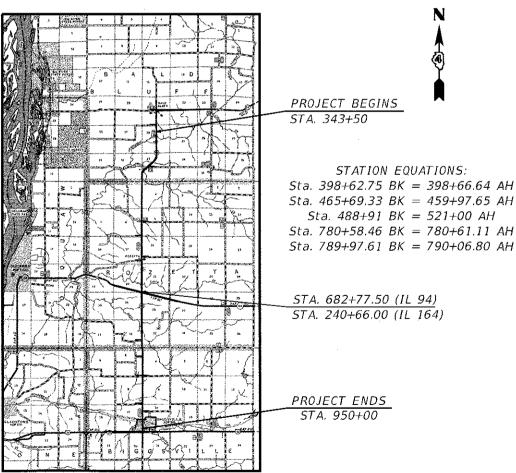
CATALOG NO. 035512-00D CONTRACT NO. 68D87

PROPOSED HIGHWAY PLANS

FAS ROUTE 1412 (IL 94) SECTION (106,107,108,108X)RS-2

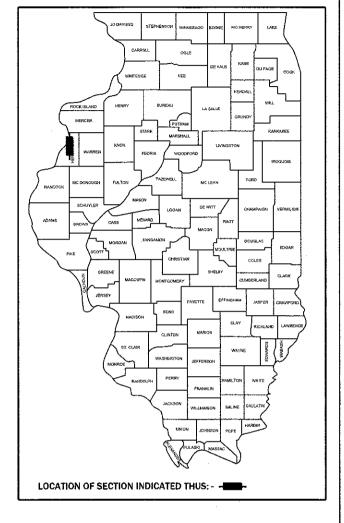
CONTRACT MAINTENANCE HENDERSON COUNTY

C-94-090-17



GROSS LENGTH = 57,997 FT. = 10.98 MILE NET LENGTH = 6200 FT. = 1.174 MILE

D-94-054-17



DESCRIPTION OF WORK

This project consists of intermittent bituminous milling and HMA overlay on IL 94 from Henderson Creek overflow to US 34 in Biggsville, IL.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED

A 25 20 17

REGION THREE ENGINEER

ENGINEER OF DESIGNAND ENVIRONMENT

TUNE 30 2017

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX OF SHEETS, GENERAL NOTES & COMMITMENTS
- 3 SUMMARY OF QUANTITIES
- 4-5 TYPICAL SECTIONS
- 6 SCHEDULE OF QUANTITIES
- 7 LINE DIAGRAM
- 8-10 DISTRICT DETAILS

COMMITMENTS

Commitments are not to be altered without the written approval of all parties to which the commitment was made.

NO COMMITMENTS HAVE BEEN MADE FOR THIS PROJECT.

PAVEMENT STATIONING NUMBERS & PLACEMENT

The Contractor shall provide labor and materials required to imprint pavement station numbers in the finished surface of the pavement and/or overlay. The numbers shall be approximately 3/4 inch (20mm) wide. 5 inches (125 mm) high and 5/8 inch (15 mm) deep.

The pavement station numbers shall be installed as specified herein:

Interval - 200 feet (English stationing) or 100 meters (metric stationing)

Bottom of Numbers - 6 inches (150 mm) from the inside edge of the pavement marking

Location:

- * 2,3, & 5 Lane Pavements right edge of pavement in direction of increasing stations
- * Multi-Lane Divided Roadways outside edge of pavement in both directions
- * Ramps along baseline edge of pavement

Position - stations shall be placed so they can be read from the adjacent shoulder

Format – English (Metric) pavement stations shall use this format "XXX (XX + X00)" where X represents the pavement station

This work will not be paid for separately, but will be considered included in the cost of the associated pavement and/or overlay pay items.

POLYMERIZED BITUMINOUS MATERIALS (TACK COAT) RATES

Surface Type	Residual Rate
Milled (HMA or PCC)	0.08 lb/sf
Existing Pavement	0.04 lb/sf
Fog Coat (between lifts)	0.04 lb/sf

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

Mixture Use(s):	Surface Course 2"
AC/PG:	PG 64 - 22
Design Air Volds:	4.0% @ N=50
Mixture Composition: (Mixture Gradation)	IL 9.5
Friction Aggregate:	Mix D
Quality Management Program:	QC/QA

Note: 1) Individual lift thickness of each mix type will be no less than 3 times nominal maximum aggregate size and no more than 6 times nominal maximum aggregate size, unless otherwise approved by the Engineer.

2) For design purposes, mixture weight for all mixes is determined to be 112.0 lb/s.y./in., unless otherwise noted.

PAVING SURFACE COURSE

Continuous paving operations on the main roadway shall be maintained at all times during the construction of the hot-mix asphalt surface. No interruptions for side roads, entrances, turn lanes, etc. will be allowed.

CROSSING EXISTING STRUCTURES WITH EQUIPMENT

The following structures SN 036-0022, SN 036-0043, SN 036-0042, SN 036-0025, SN 036-0041 AND SN 036-0047 may be crossed with a milling machine.

Any structures not listed above shall be verified by the resident prior to beginning work.

JOB SPECIFIC NOTES

The Contractor shall mark all no passing zones prior to HMA Surface Removal. This work will not be paid for separately, but will be considered included in the cost of the associated pavement and/or overlay pay items.

The Contractor shall not be required to square the vertical face on each end of the HMA removal areas prior to placing HMA 2".

FILE NAME =	USER NAME * \$USER\$	DESIGNED -	REVISED -			F.A.S. SECTION	COUNTY TOTAL SHEET
SFILEL\$		DRAWN -	REVISED -	STATE OF ILLINOIS	INDEX OF SHEETS, COMMITMENTS & GENERAL NOTES	1412 (106 107 108 108X)RS=2	HENDERSON to 2
	PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	<u> </u>	1412 (180,107,100,100X)(C3-2	CONTRACT NO. 68D87
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0005 RUPAL HENDERSON CODE TOTAL ITEM UNIT STATE QUANTITY NO. 100% 40600295 POLYMERIZED BITUMINOUS MATERIALS (TACK COAT) POUND 7680 7680 40603335 HOT - MIX ASPHALT SURFACE COURSE, MIX "D". N50 TON 1195 1195 44000157 HOT - MIX ASPHALT SURFACE REMOVAL, 2 " SQ YD 10667 10667 67100100 MOBILIZATION L SUM 70100460 TRAFFIC CONTROL AND PROTECTION, STANDARD 701306 L SUM 70300100 SHORT-TERM PAVEMENT MARKING FOOT 1290 1290 70300150 SHORT TERM PAVEMENT MARKING REMOVAL SO FT 430 430 78001110 PAINT PAVEMENT MARKING - LINE 4" FOOT 20900 20900 Z0034105 MATERIAL TRANSFER DEVICE TON 1195 1195 * SPECTALTY ITEMS

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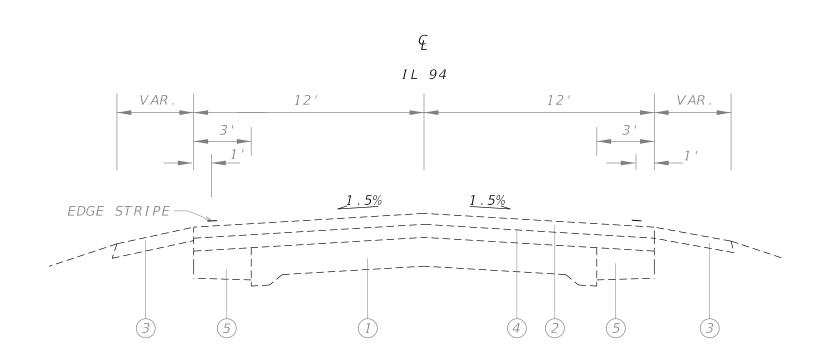
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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

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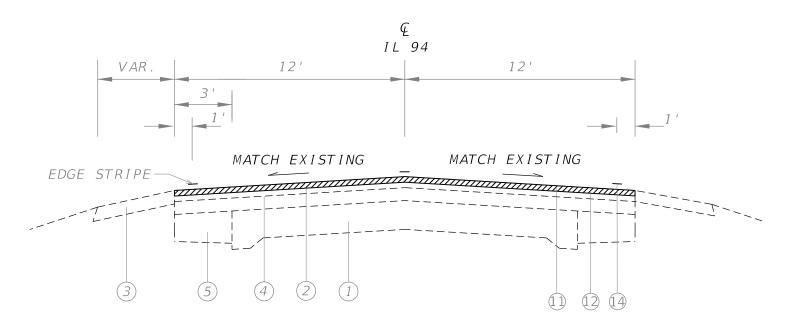


EXISTING TYPICAL SECTION

LEGEND

- 1 EXISTING PAVEMENT
- (2) EXISTING OVERLAY
- (3) EXISTING BITUMINOUS SHOULDER
- 4 EXISTING AREA REFLECTIVE CRACK CONTROL
- (5) EXISTING WIDENING
- 1 PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2"
- PROPOSED HMA SURFACE COURSE, MIX "D", N50, 2"
- 13 PROPOSED PAINT PAVEMENT MARKING

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PROPOSED TYPICAL SECTION
12' Removal Section
(See schedule for locations)

LEGEND

- 1) EXISTING PAVEMENT
- 2) EXISTING OVERLAY
- (3) EXISTING BITUMINOUS SHOULDER
- 4 EXISTING AREA REFLECTIVE CRACK CONTROL
- 5 EXISTING WIDENING
- 1 PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2"
- PROPOSED HMA SURFACE COURSE, MIX "D", N50, 2"
- 13 PROPOSED PAINT PAVEMENT MARKING

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				RESURF	ACING SC	HEDULE												
SECTION	ADDDOVIMATE LOCATION		NB LANE		NB LANE		NB LANE		NB LANE			SB LANE		TOTAL AREA	HMA SURFACE REMOVAL	POLY. BIT. MATERIAL	HMA SURF. CSE. MIX "D",	MATERIAL TRANSFER
SECTION	APPROXIMATE LOCATION	WIDTH	LENGTH	AREA	WIDTH	LENGTH	AREA	AILA	2"	(TACK COAT)	2"	DEVICE						
		FT.	FT.	SQ. YD.	FT.	FT.	SQ. YD.	SQ. YD.	SQ. YD.	LB	TON	TON						
1-A	S. OF S.N. 036-0041	12	500	666.67	12	500	666.67	1333.34	1333.34	960	149.33	149.33						
1-B	N. OF S.N. 036-0041	12	200	266.67	12	200	266.67	533.34	533.34	384	59.73	59.73						
2	S. OF S.N. 036-0025	12	100	133.33	12	200	266.67	400	400	288	44.8	44.8						
3	APPROXIMATELY 6.1 MI N. OF OLD US 34	12	200	266.67	-	-	-	266.67	266.67	192	29.87	29.87						
4-A	APPROXIMATELY 6.95 MI N. OF OLD US 34	12	50	66.67	-	-	-	66.67	66.67	48	7.47	7.47						
4-B	APPROXIMATELY 7.0 MI N. OF OLD US 34	12	50	66.67	-	-	-	66.67	66.67	48	7.47	7.47						
5-A	APPROXIMATELY 8.7 MI N. OF OLD US 34	12	200	266.67	-	-	-	266.67	266.67	192	29.87	29.87						
5-B	APPROXIMATELY 8.95 MI N. OF OLD US 34	12	100	133.33	-	-	-	133.33	133.33	96	14.93	14.93						
5-C	APPROXIMATELY 9.0 MI N. OF OLD US 34	12	100	133.33	-	-	-	133.33	133.33	96	14.93	14.93						
5-D	APPROXIMATELY 9.5 MI N. OF OLD US 34	12	500	666.67	12	100	133.33	800	800	576	89.6	89.6						
5-E	APPROXIMATELY 9.6 MI N. OF OLD US 34	-	_	-	12	150	200	200	200	144	22.4	22.4						
6	APPROXIMATELY 9.9 MI N. OF OLD US 34	12	200	266.67	-	-	-	266.67	266.67	192	29.87	29.87						
7	APPROXIMATELY 10.1 MI N. OF OLD US 34	12	1000	1333.33	12	250	333.33	1666.66	1666.66	1200	186.67	186.67						
8-A	APPROXIMATELY 10.5 MI N. OF OLD US 34	12	500	666.67	12	100	133.33	800	800	576	89.6	89.6						
8-B	APPROXIMATELY 10.7 MI N. OF OLD US 34	12	100	133.33	12	200	266.67	400	400	288	44.8	44.8						
8-C	APPROXIMATELY 10.8 MI N. OF OLD US 34	12	200	266.67	12	500	666.67	933.34	933.34	672	104.53	104.53						
8-D	S. OF S.N. 036-0043	12	200	266.67	12	100	133.33	400	400	288	44.8	44.8						
9-A	S. OF S.N. 036-0022	12	1400	1866.67	-	-	-	1866.67	1866.67	1344	209.07	209.07						
9-B	S. OF S.N. 036-0022	12	100	133.33	-	-	-	133.33	133.33	96	14.93	14.93						
	TOTA	AL						10666.69	10666.69	7680.02	1194.67	1194.67						

PAVEMENT MARKING SCHEDULE						
LOCATION	PAINT PA	SHORT TERM PAVEMENT				
LOCATION	4" WHITE	4" YELLOW	MARKING - 2 APPLICATIONS			
	FT.	FT.	FT.			
NB EOP	5700	-	-			
SB EOP	2300	-	-			
CL	-	12900	1290			
TOTAL	209	1290				

SHORT TERM PAVEMENT MARKING REMOVAL					
LOCATION	LENGTH	WIDTH	AREA		
LOCATION	FT.	INCH	SQ. FT.		
JOBSITE	1290	4	430		
		TOTAL	430		

TRAFFIC CONTROL SCHEDULE					
STD 701306					
L SUM					
1					

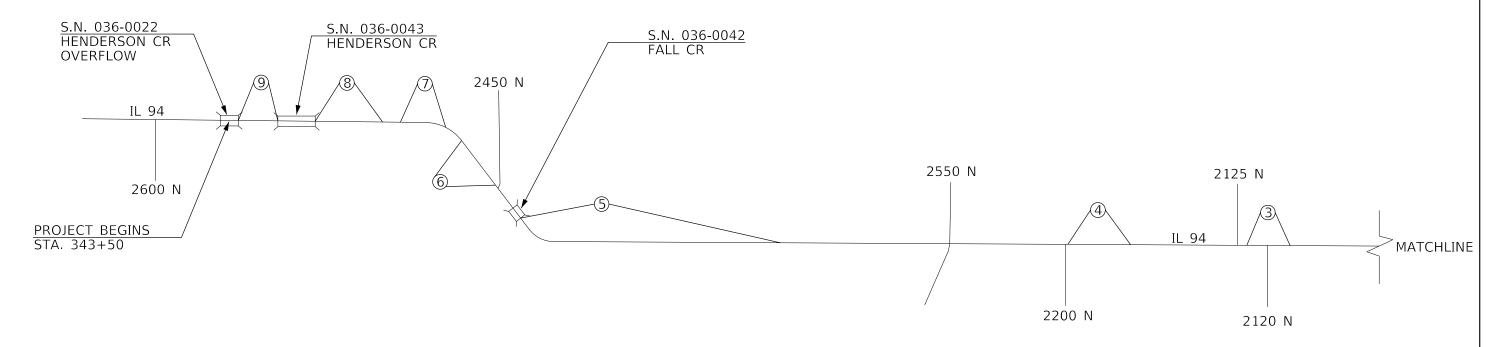
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LOCATION	67100100
LOCATION	L SUM
JOBSITE	1

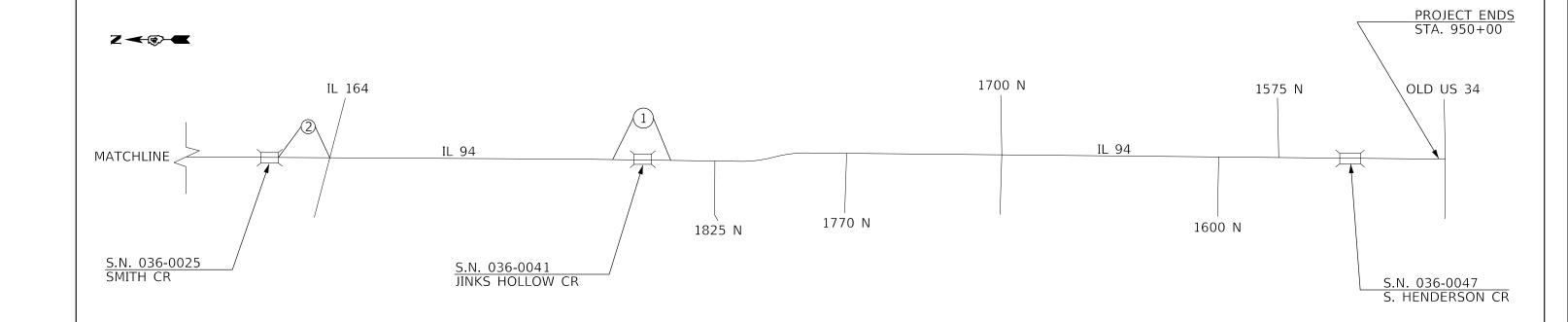
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

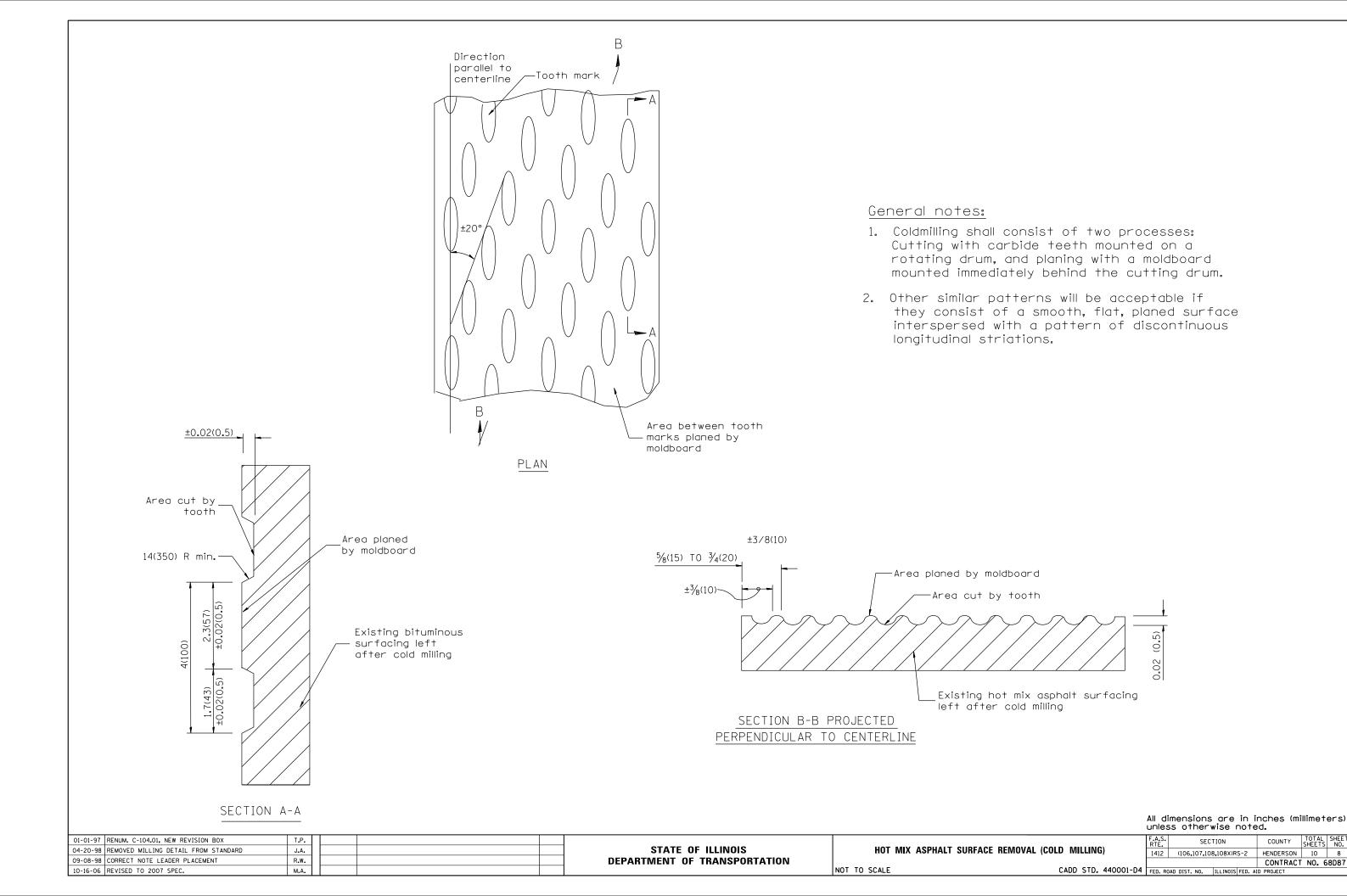
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	S	HEDUL	E OF QU	ANTITIES	5	1412	(106,107,108	,108X)RS-2	2	HENDERSON	10	6
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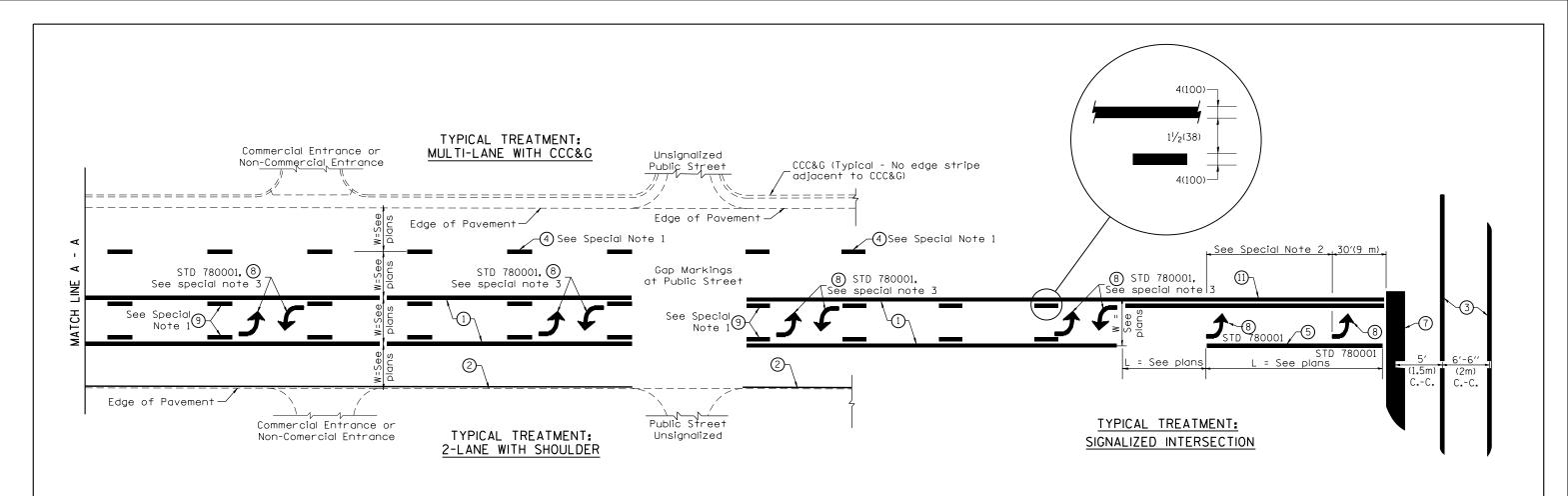






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\$FILEL\$		DRAWN -	REVISED -	STATE OF ILLINOIS				DIAGRAM		1412	(106.107.108.108X)RS-2	HENDERSON	10 7
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\$MODELNAME\$	PLOT DATE = \$DATE\$	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED. AI	D PROJECT	





FLUSH PAVED MEDIAN: TWO-WAY LEFT TURN LANE WITH ONE-WAY LEFT TURN LANE AT SIGNALIZED INTERSECTION

TYPICAL PAVEMENT MARKING LEGEND

(Note: This is a District Standard Legend. Some elements may not apply to specific project.)

- (1) 4(100) Solid (Yellow)
- (2) 4(100) Solid (White)
- 2-6(150) Crosswalk @ 6'-6" (2m)min C.-C. (White)
 2-8(200) Crosswalk @ 6'-6" (2m)min C.-C. (White) (When traffic signals are present.)
- 4 6(150) Skip-Dash (White) 10' (3.05m) (9.14m) (3.05m) (See Special Note 1)
- (5) 8(200) Solid (White)
- (6) 12(300) Diagonal (White) (Item (6) is shown on Std. 780001)
- (7) 24(600) Stop Bar (White)
- (See Std. 780001 and Special Notes 2 & 3)
- 9 4(100) Skip-Dash (Yellow) 10' 30' 10' (See Special Note 1)
- 10 12(300) Diagonal (Yellow) (See Table A)
 45°

 11 4(100) Double Solid (Yellow)
 11(280) C.-C.

SPECIAL NOTES

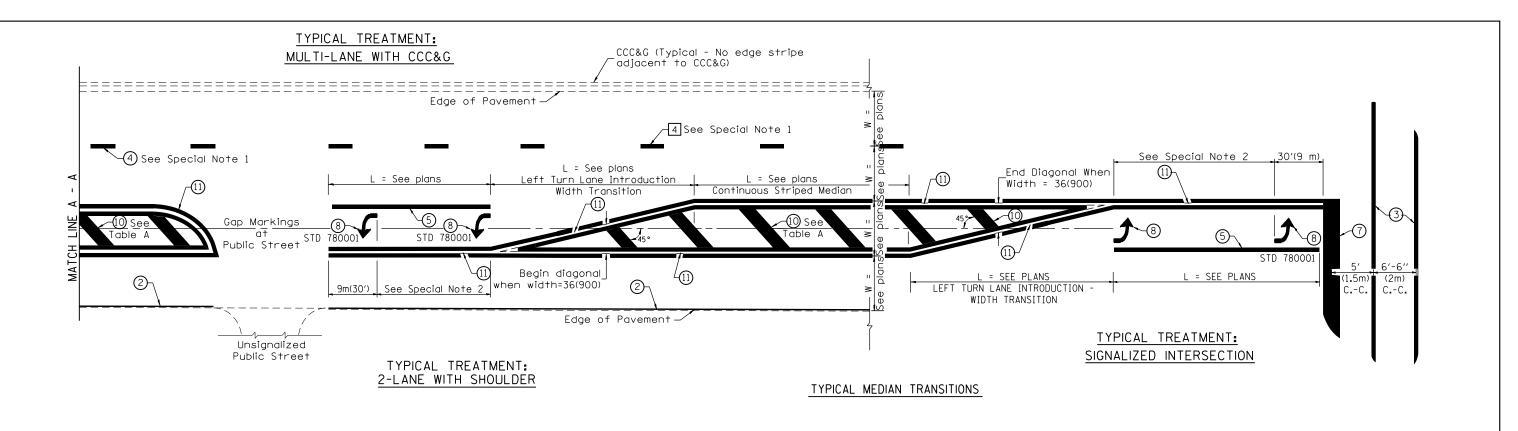
- Skip-Dash markings will be centered between both ends of city blocks and shall be placed in alignment transversly across the pavement.
- 2. The following shall apply to arrows located in one-way left turn lanes:
 - A. A minimum of two (2) arrows is required.
 - B. The maximum spacing between arrows is 80′ (24 m).
 - C. Arrows shall be evenly spaced if three (3) or more are required.
- 3. The following shall apply to arrow pairs located in two-way left turn lanes:
 - A. A minimum of two (2) arrow pairs is required. B. The maximum spacing between arrow pairs
 - C. Arrow pairs shall be evenly spaced if three (3) or more are required.
- D. The spacing between Bi Directional Left Turn Arrows is 33' (10 m).

GENERAL NOTES

- 1. Refer to State Standard 780001 for additional Pavement Markings including letters & arrows.
- See Plans for Pavement Markings adjacent to curbed islands and medians, and through lane reductions.
- 3. Refer to Article 780.13 for letter, number and symbol areas (sq. ft.)
- 4. Areas are grooved 1" beyond each edge for the following symbols: Through Arrow= 14.8 sq. ft.
 Large Left or Right Arrow= 21.9 sq. ft.
 2 Arrow Combination Left (or Right) and Through= 34.9 sq. ft.
 Wrong Way Arrow= 29.5 sq. ft.
 Railroad Crossing Symbol= 69.8 sq. ft.
 (For further information, refer to BDE Special Provision: Grooving for Recessed Pavement Markings)

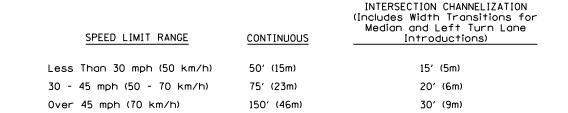
01-01	1-97	RENUM. F-8.03, NEW REVISION BOX	T.P.	10-16-06	REVISED TO 2007 SPEC.					F.A.S RTF.	SECTION	COUNTY	TOTAL	SHEE
02-07	7-97	ADD BI DIRECTIONAL DIMENSION	J.A.	2/29/16	ADDED GROOVING AREAS R.	R.D.	STATE OF ILLINOIS		TYPICAL PAVEMENT MARKINGS	1412	(106,107,108,108X)RS-2	HENDERSON	10	9
10-	-97	CORRECT BI DIRECTIONAL DIMENSION	J.A.				DEPARTMENT OF TRANSPORTATION		SHT. 1 OF 2	2	•	CONTRACT	T NO. 6	68D8
08-	-02	ADD CROSSWALK DMNS. WITH T.S.	M.A.					NOT TO SCALE	CADD STD. 780001-D4	FED. F	ROAD DIST. NO. ILLINOIS FED. A	ID PROJECT		

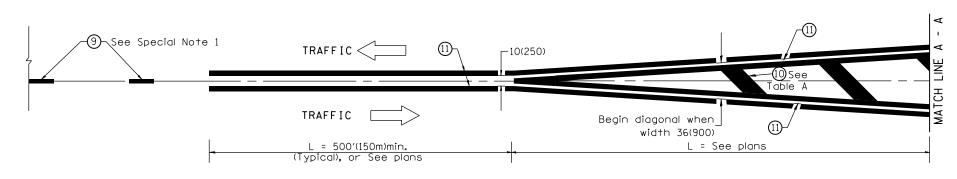
is 200' (61 m).



FLUSH PAVED MEDIAN: RESTRICTED LEFT TURN LANE

TABLE A RECOMMENDED SPACING BETWEEN DIAGONAL LINES





MEDIAN INTRODUCTION - WIDTH TRANSITIONS

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

	STATE OF ILLINOIS	TYPICAL PAVEMENT MARKINGS	F.A.S RTE.	SECTION	COUNTY TOTAL SHEE NO.
	DEPARTMENT OF TRANSPORTATION	NOT TO SCALE CADD STD.	SHT. 2 OF 2 . 780001-D4 FED. ROAL	(106,107,108,108X)RS-2	HENDERSON 10 10 CONTRACT NO. 68D8