### STATE OF ILLINOIS

### **DEPARTMENT OF TRANSPORTATION**

#### 

D-99-021-17



# FOR INDEX OF SHEETS, SEE SHEET NO. 3 FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 5-6

#### TRAFFIC DATA

OLD IL ROUTE 13				
M.P.	(0.0-1.06)			
(2017)				
PV =	5,230			
SU =	605			
MU =	125			
ADT =	5,960			
(2037)				
PV =	6,375			
SU =	740			
MU =	155			
ADT =	7,270			

## TOWNSHIP WEST MARION

PROJECT BEGINS AT STA. 586 + 57.09 ON OLD IL ROUTE 13

**DESIGN DESIGNATION: N.A.** 

**COORDINATE SYSTEM: ILLINOIS EAST** 

POSTED SPEED: 50 MPH

.U.L.I.E.

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

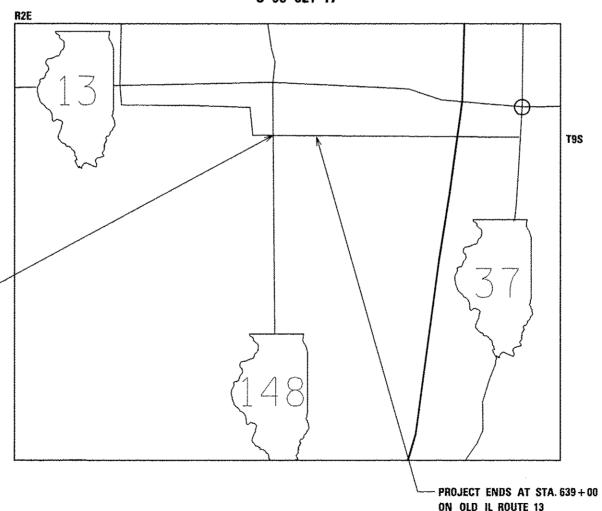
PROJECT ENGINEER CHARLES STEIN (618) 351-5210
PROJECT DESIGNER AESHA JACKSON (618) 351-5215

GROSS LENGTH = 5290 FT. = 1 MILE NET LENGTH = 5290 FT. = 1 MILE

PROPOSED HIGHWAY PLANS

FAU 9629 (OLD IL ROUTE 13)
SECTION (1,1X)RS-2
PROJECT STP-9629(002)
PATCHING AND RESURFACING
WILLIAMSON COUNTY

C-99-021-17



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED

March 22 20 17

REGION FIVE ENGINEER

12 20 17

ENGINEER OF DESIGN AND ENVIRONMENT

May 12 20

DIRECTOR OF PROGRAM DEVELOPMENT

LOCATION OF SECTION INDICATED THUS: -

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 78570

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DEPARTMENT OF TRANSPORTATION	STATE OF ILLINOIS								
	<b>Æ</b>	E-A-U- SECTION COUNTY	Examined By:	Examined By:  DISTRICT CONSTRUCTION ENGINEER	1111/1/1/1/	Examined By:  DISTRICT OPERATIONS ENGINEER	Examined By:  DISTRICT PROGRAM DEVEL OPMENT ENGINEER	Examined By:  DISTRICT LAND ACQUISITION ENGINEER	Prepared By: DISTRICT STUDIES & PLANS ENGINEER

## **INDEX OF SHEETS**

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	SIGNATURE SHEET
3 - 4	INDEX OF SHEETS, GENERAL NOTES, MIXTURE DESIGN, COMMITMENTS,
5 - 6	SUMMARY OF QUANTITIES
7	PAVEMENT MARKING SCHEDULE
8	OLD IL ROUTE 13 MAINLINE RESURFACING SCHEDULE
9 - 10	TYPICAL SECTION
11 - 14	DESIGN DETAILS FOR OLD IL ROUTE 13
15	BUTT JOINTS DETAIL AT RAMPS AND STRUCTURES
16	DETAILS FOR HMA TRANSITION UNDER STRUCTURES
17	UNEVEN LANE SIGN DETAIL AND ROUGH GROOVED SURFACE SIGNS

## **STANDARDS**

## **COMMITMENTS**

NONE

## **MIXTURE DESIGN**

The following HMA mixture requirements are applicable for this project:

Locations	Hot-Mix Asphalt Shoulders (Top Lift)		
Mixture Use(s):	Hot-Mix Asphalt Shoulders, IL-9.5L		
AC/PG:	PG64-22		
ABR % (Max):	See Special Provision		
Design Air Voids:	4.0 %, 30 Gyration Design		
Mixture Composition:	IL-9.5L		
(Gradation Mixture)	IL-9.5L		
Friction Aggregate:	None		
Mixture Weight:	112.0 lbs/sq.yd/in.		
Quality Management	QCQA		
Program:	QCQA		
Sublot Size:	N/A		
Number of Roller Passes 17	N/A		

1/ When a number of roller passes is specified, the Contractor may opt to use intelligent compation in lieu of density testing, under the Qualuity Control for Performance (QCP) program.

The following HMA mixture requirements are applicable for this project:

Locations	Hot-Mix Asphalt Surface Course
Mixture Use(s):	Hot-Mix Asphalt Surface Course, Mix D, N70
AC/PG:	PG64-22
ABR % (Max):	See Special Provision
Design Air Voids:	4.0 %, 70 Gyration Design
Mixture Composition:	IL-9.5mm
(Gradation Mixture)	16-9.50000
Friction Aggregate:	D Surface
Mixture Weight:	112.0 lbs/sq.yd/in.
Quality Management	QCQA
Program:	QCQA
Sublot Size:	N/A
Number of Roller Passes 17	N/A

1/ When a number of roller passes is specified, the Contractor may opt to use intelligent compation in lieu of density testing, under the Qualuity Control for Performance (QCP) program.

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### **MIXTURE DESIGN-CONT'D**

The following HMA mixture requirements are applicable for this project:

Locations	Hot-Mix Asphalt Leveling Binder		
Mixture Use(s):	Hot-Mix Asphalt Leveling Binder, N70 Fine Graded		
AC/PG:	PG64-22		
ABR % (Max):	See Special Provision		
Design Air Voids:	4.0 %, 70 Gyration Design		
Mixture Composition:	IL-9.5mm Fine Graded		
(Gradation Mixture)	IL-9.5IIIII Filie Graded		
Friction Aggregate:	None		
Mixture Weight:	112.0 lbs/sq.yd/in.		
Quality Management	QCQA		
Program:	QCQA		
Sublot Size:	N/A		
Number of Roller Passes 17	N/A		

1/ When a number of roller passes is specified, the Contractor may opt to use intelligent compation in lieu of density testing, under the Qualuity Control for Performance (QCP) program.

### **GENERAL NOTES**

QUANTITIES SHOWN IN THE PLANS FOR PATCHING ARE ESTIMATES. THE ACTUAL AMOUNT OF PATCHING REQUIRED WILL BE DETERMINED BY THE ENGINEER.

FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

ALL HOT MIX ASPHALT

2.016 TONS/ CU.YD.

THE THICKNESS OF HOT MIX ASPHALT MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HOT MIX ASPHALT MIXTURE IS PLACED.

THE QUANTITY OF SHORT TERM PAVEMENT MARKING SHOWN IN THE PLANS IS BASED ON ONE APPLICATION EACH FOR THE HMA SURFACE REMOVAL, SURFACE COURSE, AND BINDER COURSE.

UNLESS OTHERWISE DIRECTED BY THE ENGINEER ,RESURFACING SHALL BE PLACED IN A SEQUENCE THAT WILL MINIMIZE THE TIME THE CENTERLINE EDGE IS EXPOSED TO TRAFFIC. WHEN AT THE END OF A DAY'S OPERATION THE EXPOSED CENTERLINE EDGE IS GREATER THAN 2,000 FT. THE CONTRACTOR SHALL BE REQUIRED TO PAVE IN THE ADJACENT LANE ON THE FOLLOWING WORK DAY . PRIOR TO WINTER SHUT DOWN RESURFACING ON ADJACENT LANES IS TO BE BROUGHT UP TO THE SAME ELEVATION.

ATTAINMENT OF PROPER CROWN OR SUPERELEVATION SHALL BE FULLY ACCOMPLISHED WITH THE HOT-MIX ASPHALT SURFACE REMOVAL OR HOT-MIX ASPHALT BINDER COURSE WHEN SPECIFIED.

PRIOR TO PLACEMENT OF THE FINAL PAVEMENT MARKINGS THE RESIDENT ENGINEER SHALL CONTACT THE BUREAU OF OPERATIONS AND ARRANGE FOR INSPECTION AND APPROVAL OF THE PAVEMENT MARKING LAYOUT.

AFTER A LIFT OF HOT-MIX ASPHALT HAS BEEN PLACED ON A LANE, THAT LANE SHALL REMAIN CLOSED TO TRAFFIC UNTIL THE NEW MAT HAS COOLED TO 150 °F.

THE CONTRACTOR SHALL COMPLETE ALL PATCHING PRIOR TO THE HOT-MIX ASPHALT SURFACE REMOVAL.

THE CONTRACTOR SHALL STAMP STATIONING IN THE HOT-MIX ASPHALT SURFACE AT 300 FT INTERVALS ALTERNATING SIDES ON THE OUTSIDE EDGE OF PAVEMENT AND AS DIRECTED BY THE ENGINEER. THE STATION SYMBOL STAMPS USED SHALL BE FURNISHED BY THE CONTRACTOR. THEY SHALL BE 140 mm (5½ IN.) TALL, OF A DESIGN APPROVED BY THE ENGINEER, AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

THERE ARE NO AVAILABLE WASTE SITES ON THE EXISTING RIGHT OF WAY WITHIN THE PROJECT LIMITS. DISPOSAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.3 OF THE STANDARD

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## **SUMMARY OF QUANTITIES**

COUNTY:	WILLIAMSON
ROUTE:	Old 13, FAU 9629
FUNDING:	80%FED20% STATE
LOCATION:	URBAN
 TOTAL	DOADWAY

			FUNDING:	80%FED20% STATE
		•	LOCATION:	URBAN
CODE	ITEM DESCRIPTION	UNIT	TOTAL	ROADWAY
NUMBER			QUANTITY	0005
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	630	630
40600990	TEMPORARY RAMP	SQ YD	27	27
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	1,261	1,261
40700100	BITUMINOUS MATERIALS (TACK COAT)	POUND	12,129	12,129
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	19,522	19,522
48203100	HOT-MIX ASPHALT SHOULDERS	TON	488	488
67100100	MOBILIZATION	LSUM	1	. 1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	LSUM	1	1
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	LSUM	1	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	630	630
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	32	32
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	13,074	13,074
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	13,074	13,074
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	59	59

\* SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	SUMMARY	OF QUANTITIES	
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## **SUMMARY OF QUANTITIES - CONT**

COUNTY:	WILLIAMSON
ROUTE:	Old 13, FAU 9629
FUNDING:	80%FED20% STATE
LOCATION:	URBAN

			LOCATION:	URBAN
CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY 0005
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	59	59
2				
88600100	DETECTOR LOOP, TYPE I	FOOT	37	37
				·
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	4,509	4,509

\* SPECIALTY ITEN

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## PAVEMENT MARKING SCHEDULE

OLD IL ROUTE 13			NT PAVEN	IENT MARK	ING		SHORT	TEMP	WORK	RAISED	RAISED	
WEST MAIN STREET	LENGTH		SOLID	LIN	E - YELLOV	V 4"	LETTERS	TERM	PVMT	ZONE	REF PVMT	REF PVMT
LOCATION	LENGIA	DESCRIPTION	WHITE	LEFT	CENTER	RIGHT	AND	PVMT	MRK	PAVT MK	MKR	MKR
STATION TO STATION			4"	SOLID	DASHED	SOLID	SYMBOLS	MRK	4"	REM		REMOVAL
STA TO STA	FEET		FT	FT	FT	FT	SQ FT	FT	FT	SQ FT	EACH	EACH
MAIN STREET URBAN SECTION												
STA 586+57.09 TO STA 592+00.00	543	HMA	1266	480	273	480	32	65	2499	855		1
STA 592+00.00 TO STA 597+00.00	500	HMA	1000		125			60	1125	395	6	6
STA 597+00.00 TO STA 603+00.00	600	HMA	1200		150			72	1350	474	8	8
STA 603+00.00 TO STA 608+00.00	500	HMA	1000		125			60	1125	395	6	6
STA 608+00.00 TO STA 613+00.00	500	HMA	1000		125			60	1125	395	6	6
STA 613+00.00 TO STA 618+00.00	500	HMA	1000		125			60	1125	395	6	6
STA 618+00.00 TO STA 623+00.00	500	HMA	1000		125			60	1125	395	6	6
STA 623+00.00 TO STA 628+00.00	500	HMA	1000		125			60	1125	395	6	6
STA 628+00.00 TO STA 639+00.00	1100	HMA	2200		275			132	2475	869	14	14
PROJECT TOTALS			10666	480	1448	480	32	630	13074	4568	59	59
	13074											

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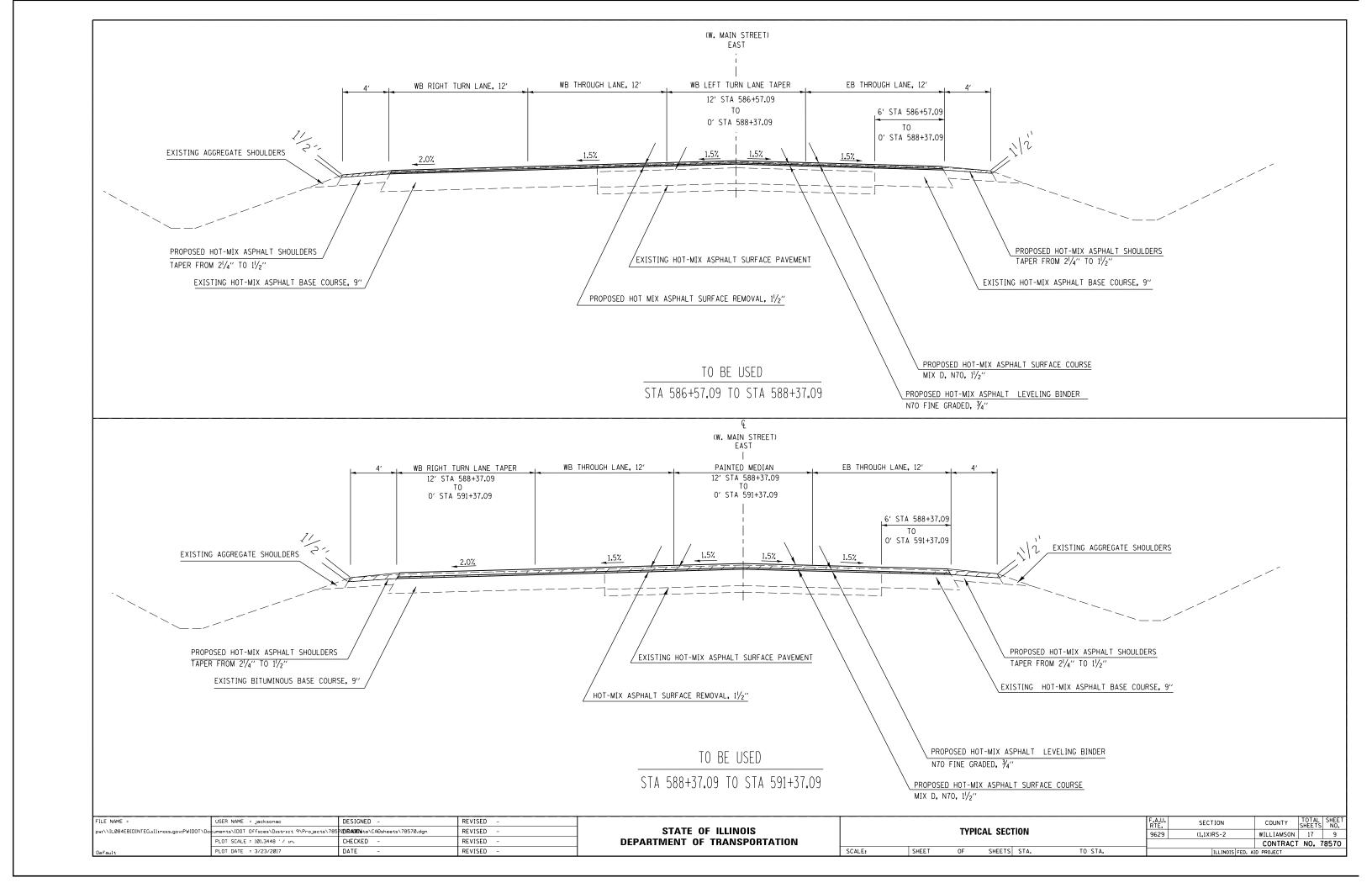
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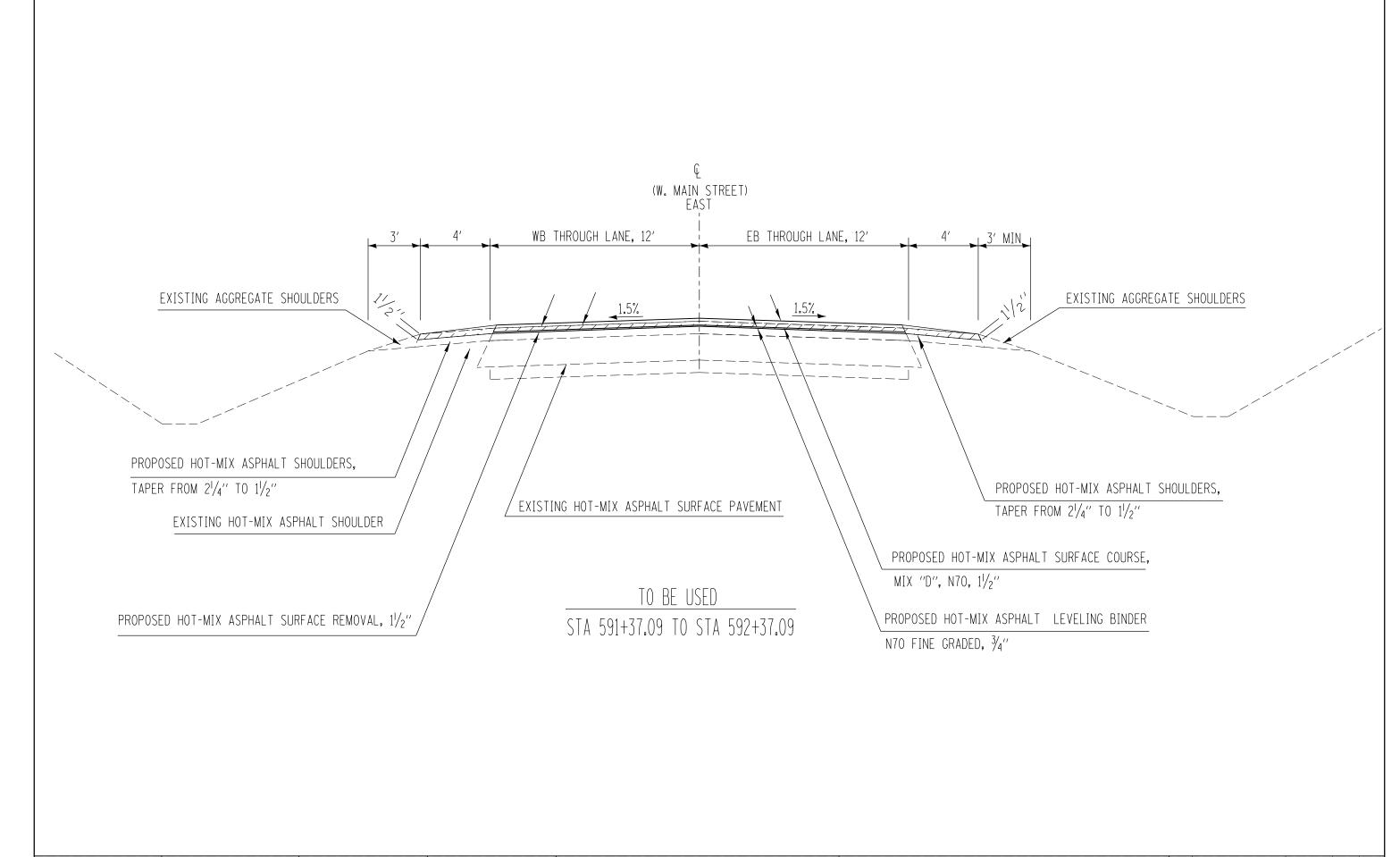
## WEST MAIN STREET (OLD IL ROUTE 13) MAINLINE RESURFACING SCHEDULE

	LOCATION STATION TO STATION		LENGTH	ROADWAY WIDTH	SHOULDER WIDTH	HOT-MIX ASP. SURF. REMOV. - BUTT JT.	TEMP RAMP	HMA SUR. REMOV. 1 1/2"	HOT-MIX ASP. SUR. CSE., MIX D, N 70 (1 1/2")	LEVELING BINDER (MM) N70 (3/4")	BIT. MAT. (TACK COAT)	HMA SHOULDERS	NOTES	
	OTATION TO	<i>3</i>		FOR INFOR	MATIONAL PUR	POSE ONLY					,			
				(FT)	(FT)	(FT)	(SQ YD)	(SQ YD)	(SQ YD)	(TON)	(TON)	(LBS)	(TON)	
MAINL	INE: STA. 586+5	57.05 T	O STA. 639+00											
	586+57.05	то	588+37.09				187	13						
LT	586+57.05	то	588+37.09	180	24	4			560	41	21	360	8	
RT	586+57.05	то	588+37.09	180	24	4			560	41	21	360	8	
	588+37.09	ТО	591+37.09											
LT	588+37.09	то	591+37.09	300	18	4			733	51	26	465	14	
RT	588+37.09	то	591+37.09	300	18	4			733	51	26	465	14	
	591+37.09	ТО	610+00.00											
LT	591+37.09	то	610+00.00	1863	12	4			3312	211	105	2,049	87	
RT	591+37.09	то	610+00.00	1863	12	4			3312	211	105	2,049	87	
	610+00.00	ТО	630+00.00											
LT	610+00.00	то	630+00.00	2000	12	4			3556	226	112	2,200	93	
RT	610+00.00	то	630+00.00	2000	12	4			3556	226	112	2,200	93	
	630+00.00	ТО	639+00.00											
LT	630+00.00	то	639+00.00	900	12	4			1,600	102	51	990	42	
RT	630+00.00	то	639+00.00	900	12	4	107	13	1,600	102	51	990	42	
	MAINLINE	TOTA	ALS				293	27	19,522	1,261	630	12,129	488	

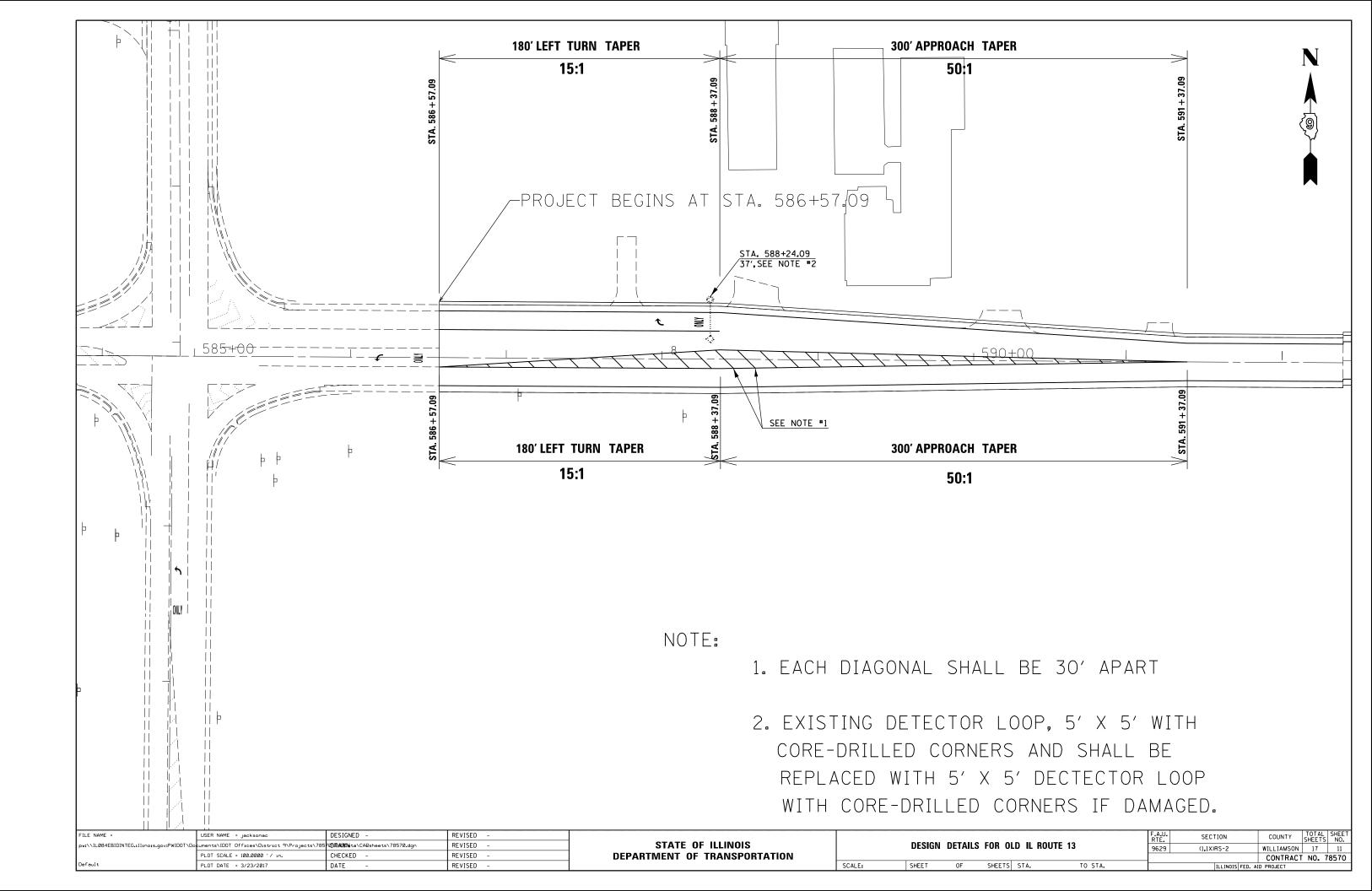
<sup>\*</sup> NOTE: ADDITIONAL QUANTITY INCLUDED FOR LOW SHOULDERS.

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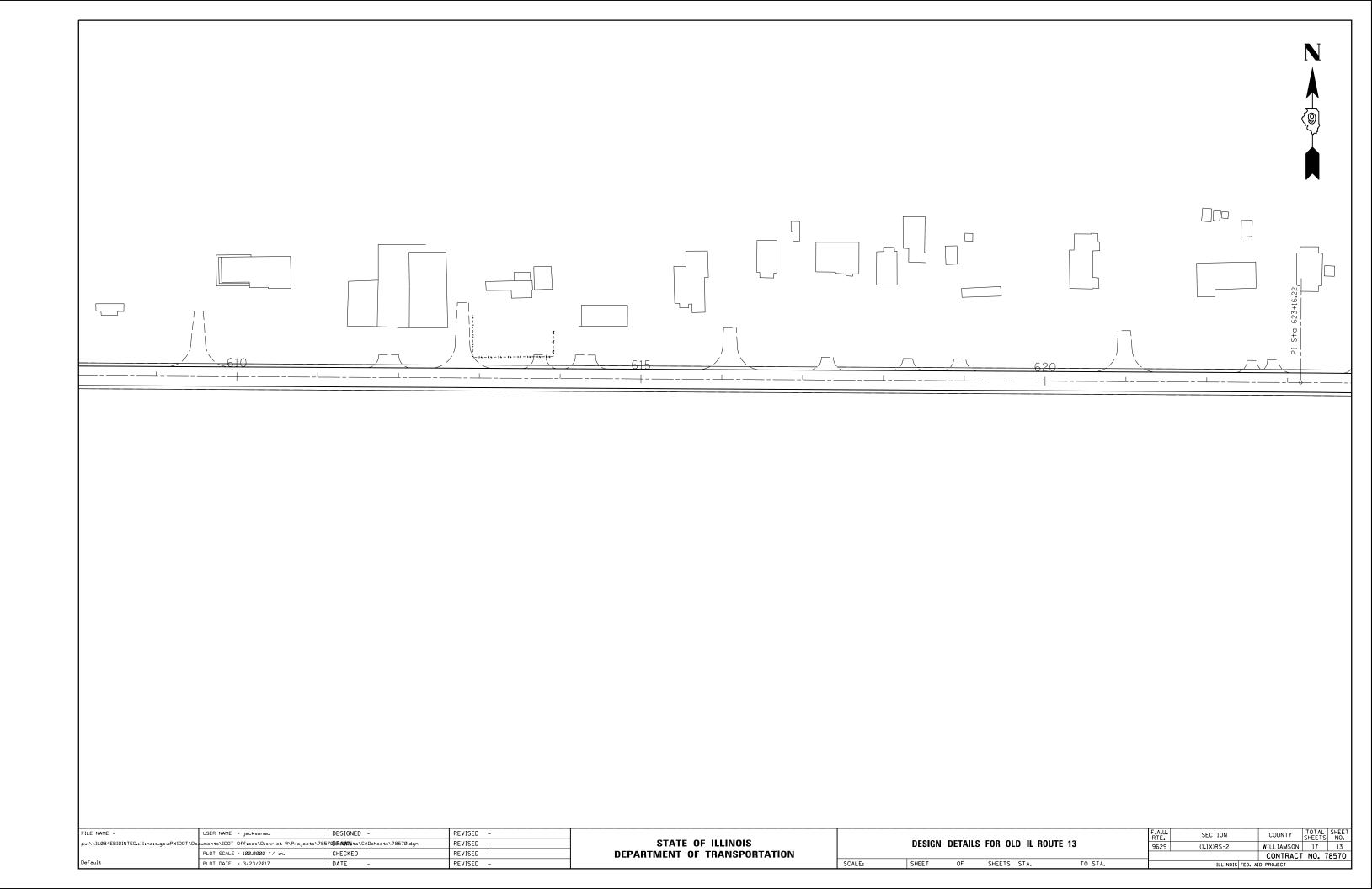


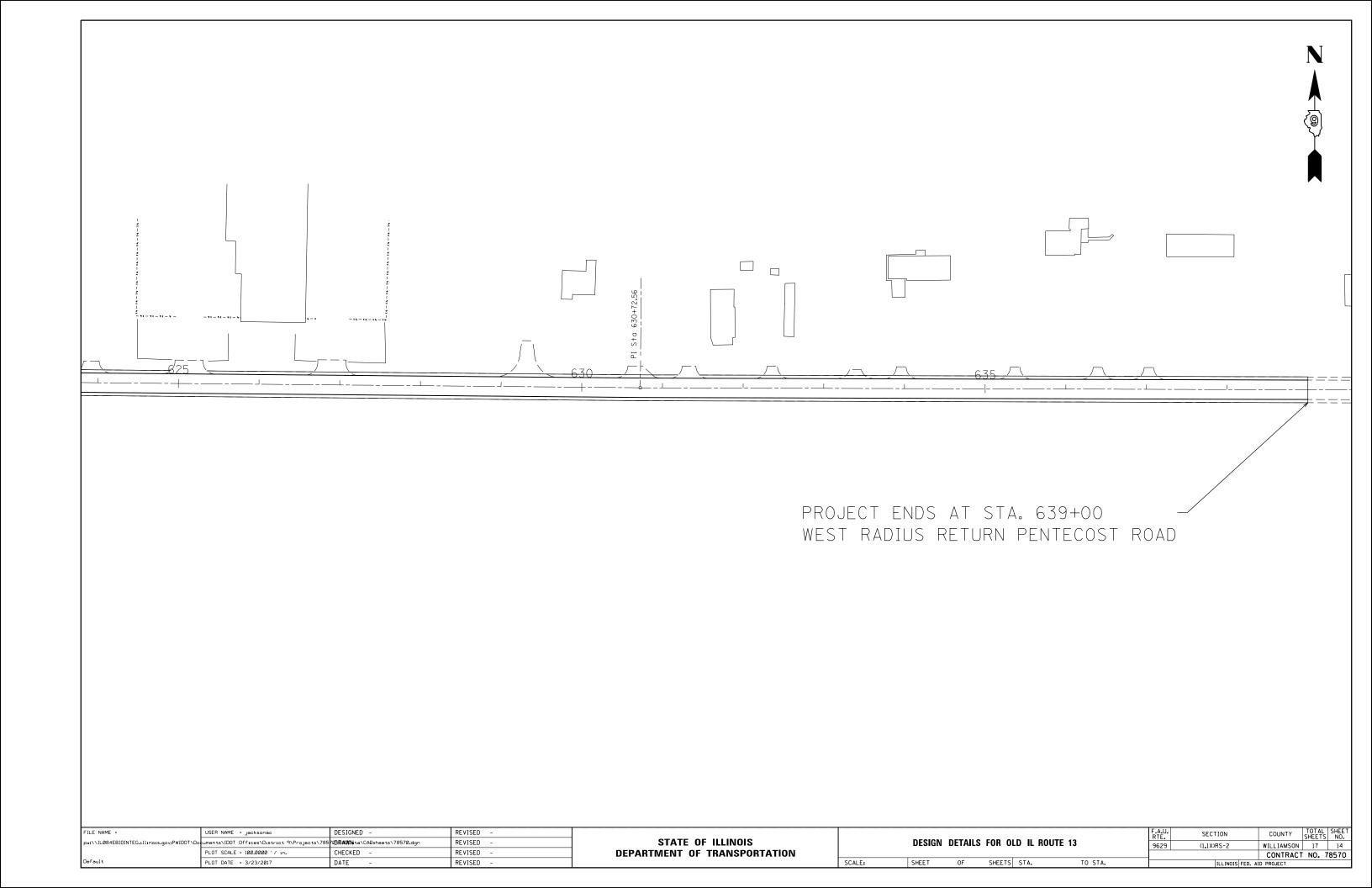


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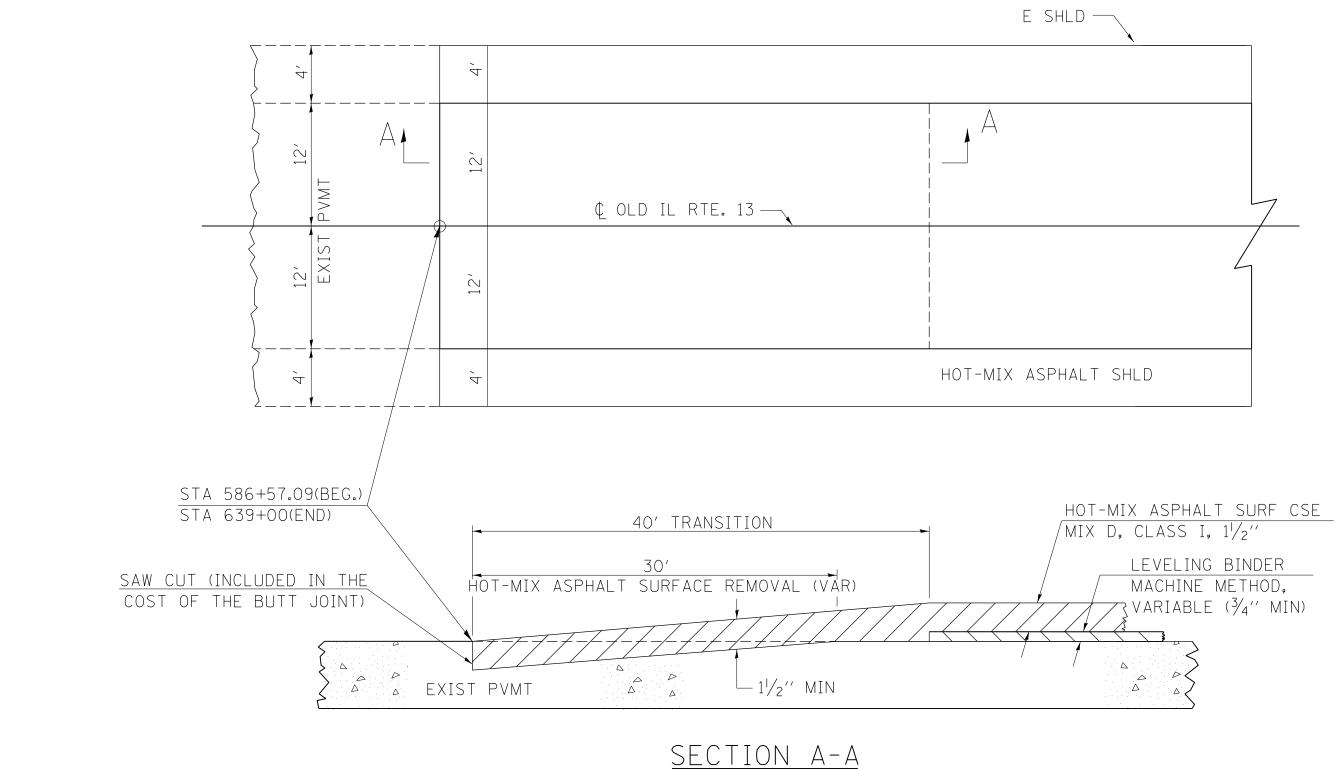








## **BUTT JOINT**



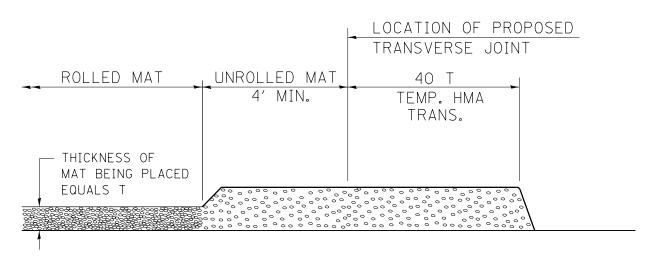
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REVISED 5-17-13
REVISED 02-17-17

REVISIONS

STD. 9-86

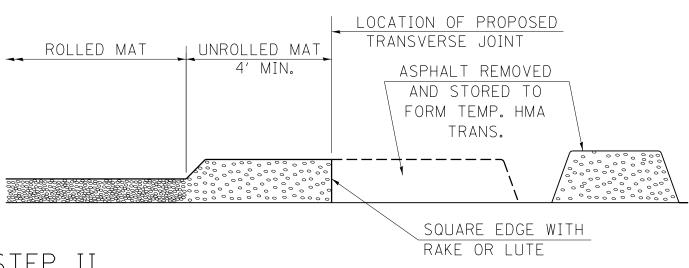
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### TEMPORARY HOT-MIX ASPHALT TRANSITIONS



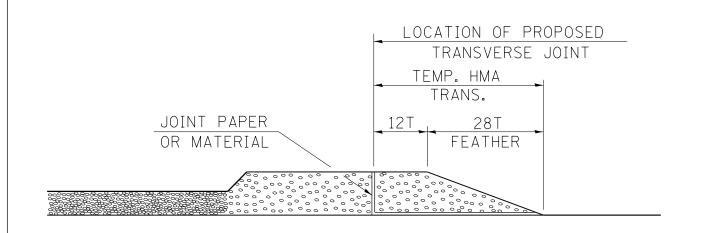
### STEP I

- 1. PLACE HOT-MIX ASPHALT MAT, LENGTH 40 TIMES THE THICKNESS OF THE MAT BEING PLACED PAST THE PROPOSED TRANSVERSE JOINT LOCATION USING NORMAL OPERATING PROCEDURES.
- 2. EXTREME CARE SHOULD BE TAKEN TO MAINTAIN ENOUGH MATERIAL IN FRONT OF THE SCREED TO MAINTAIN REQUIRED PAVING DEPTH.



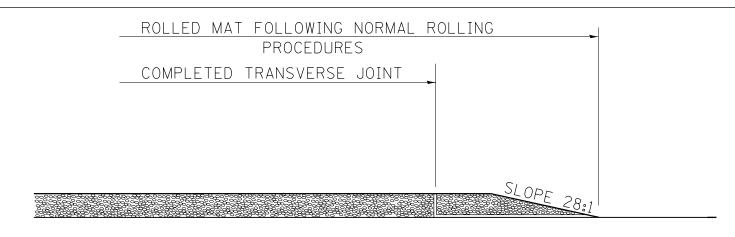
### STEP II

- 1. MOVE THE PAVER OUT OF THE WAY AND REMOVE THE ASPHALT FROM THE AREA OF THE PROPOSED TEMPORARY HOT-MIX ASPHALT TRANSITION.
- 2. SQUARE UP THE END OF THE MAT WITH A RAKE OR LUTE.
- 3. NOTE THAT THE MAT WITHIN 4' OF THE END OF JOINT IS NOT TO BE ROLLED AT THIS TIME.



### STEP III

- 1. JOINT PAPER OR OTHER PRESELECTED JOINT MATERIAL IS THEN PLACED IN THE CLEARED AREA AND THE EXCESS ASPHALT USED TO HAND FORM A TRANSITION TO THE DIMENSIONS SHOWN ABOVE.
- 2. NOTE THAT IN CONSTRUCTING THE TRANSITION. THE MAT DEPTH IS CONTINUED AS PART OF THE TRANSITION BEFORE FORMING THE FEATHER.



### STEP IV

- 1. COMPLETE TEMPORARY TRANSITION BY ROLLING.
- 2. TO RESUME PAVING, AT THE JOINT, REMOVE TEMPORARY TRANSITION AND DISPOSE OF THE MATERIAL ACCORDING TO ART. 202.03 OF THE STD. SPECS. (COST INCLUDED IN THE CONTRACT).
- 3. CONSTRUCTING THE TEMPORARY TRANSITIONS WILL NOT BE PAID FOR SEPARATELY IN ACCORDANCE WITH ARTICLE 406.14 OF THE STANDARD SPECIFICATIONS.

REVISIONS

REDRAWN	2-15-89
REVISED	8-16-94
REVISED	01-09-07
RESIZED	05-8-08
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STD. 9-26 [REVISED | 05-16-13

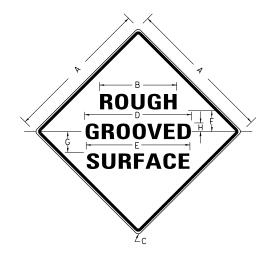
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pw:\\IL084EBIDINTEG.:111:no:s.gov:PWIDOT\Do	cuments\IDOT Offices\District 9\Projects\785	7 <b>0).RANNIN</b> ita\CAÐsheets\78570.dgn	REVISED -
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -
Default	PLOT DATE = 3/23/2017	DATE -	REVISED -

STATE	OF	ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

DETAIL	S FOR	нма	TRANSITION		
HEET	OF.	CHEETC	CT.	TO 6	

9629 CONTRACT NO. 78570

#### **ILLINOIS STANDARD**



#### COLORS:

LEGEND AND BORDER- BLACK NON-REFLECTORIZED BACKGROUND- ORANGE REFLECTORIZED

SIGN	DIMENSIONS							
SIZE	Α	В	С	D	E	F	G	Н
48X48	48.0	24.1	3.0	34.0	33.0	6.0	13.0	3.5

SIGN	SERIES MAR				SERIES LINES MAR		BOR-	BLANK
SIZE	1	2	3	GIN	DER	STD.		
48X48	7C	7C	7C	0.8	1.2	B4-48D		

ALL DIMENSIONS IN INCHES

#### NOTES:

PRIOR TO ALLOWING TRAFFIC ON ANY PORTION OF THE ROADWAY THAT HAS BEEN COLDMILLED, THE CONTRACTOR SHALL HAVE ERECTED "ROUGH GROOVED SURFACE" SIGNS THAT CONFORM TO THE ABOVE DETAILS. A MINIMUM OF ONE SIGN AT EACH END OF THE IMPROVEMENT WILL BE REQUIRED. THE CONTRACTOR SHALL MAINTAIN THE "ROUGH GROOVED SURFACE" SIGNS UNTIL THE COLDMILLED SURFACE IS COVERED WITH LEVELING BINDER OR SURFACE COURSE.

IF AT ANY TIME THE SIGNS ARE IN PLACE BUT NOT APPLICABLE. THEY SHALL BE TURNED FROM THE VIEW OF MOTORISTS OR COVERED AS DIRECTED BY THE ENGINEER.

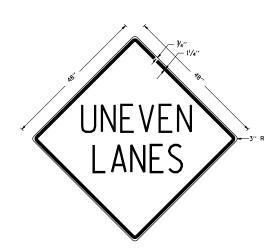
THE COST OF FURNISHING, ERECTING, MAINTAINING, AND REMOVING THE REQUIRED SIGNS SHALL BE INCLUDED IN THE CONTRACT.

REVISIONS

REDRAWN 2-15-89 REVISED 4-6-93 STD. 9-39 REVIEWED 5-17-13

#### **UNEVEN LANES SIGN**

W8-11 (48" × 48")



LEGEND AND BORDER - BLACK NON-REFLECTORIZED BACKGROUND - ORANGE REFLECTORIZED

NOTE: PRIOR TO ALLOWING TRAFFIC ON ANY PORTION OF THE ROADWAY THAT HAS BEEN COLDMILLED OR BEFORE RESURFACING OPERATIONS BEGIN, THE CONTRACTOR SHALL HAVE ERECTED "UNEVEN PAVEMENT" SIGNS THAT CONFORM TO THE ABOVE DETAILS. A MINIMUM OF ONE SIGN AT EACH END OF THE IMPROVEMENT WILL BE REQUIRED. THE CONTRACTOR SHALL MAINTAIN THE "UNEVEN PAVEMENT" SIGNS UNTIL THE RESURFACING OPERATIONS ARE COMPLETED.

> IF AT ANY TIME THE SIGNS ARE IN PLACE BUT NOT APPLICABLE, THEY SHALL BE TURNED FROM THE VIEW OF MOTORISTS OR COVERED AS DIRECTED BY THE ENGINEER.

THE COST OF FURNISHING, ERECTING, MAINTAINING, AND REMOVING THE REQUIRED SIGNS SHALL BE INCLUDED IN THE CONTRACT.

DRAWN 2-15-89
REVISED 4-06-93
REDSIGNED 7-23-04

SECTION

COUNTY SHEETS NO. WILLIAMSON 17 17

FILE NAME = DESIGNED -REVISED USER NAME = jacksonac ow:\\ILØ84EBIDINTEG.:ll:nois.gov:PWIDOT\C uments\IDOT Offices\District 9\Projects\785**70\RAWN**sta\CADsheets\78570.dan REVISED PLOT SCALE = 100.0000 '/ in. CHECKED REVISED PLOT DATE = 3/23/2017 REVISED DATE

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

UNEVEN LANE SIGN DETAIL AND ROUGH GROOVED SURFACE SIGNS SCALE: SHEET OF SHEETS STA. TO STA.

9629 (1,1X)RS-2 CONTRACT NO. 78570