

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60-3K-1	MADISON	576*	1
			ILLINOIS CONTRACT NO. 76818	

\* 576 + 1 = 577 TOTAL SHEETS

D-98-071-04



LOCATION OF SECTION INDICATED THUS: - [Symbol] -

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED  
HIGHWAY PLANS

FAI ROUTE 270 (I-270)  
SECTION 60-3K-1  
PROJECT NHFP-U7JU(108)  
INTERCHANGE RECONSTRUCTION  
MADISON COUNTY

C-98-084-04

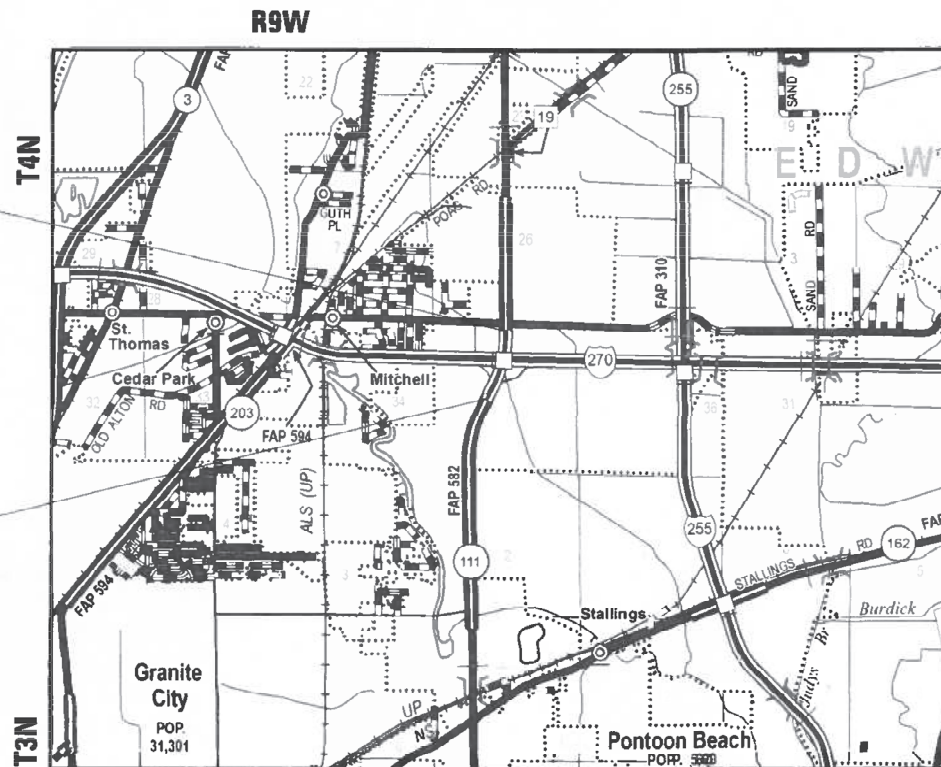
TRAFFIC DATA

IL 111 FROM CHAIN OF ROCKS TO I-270		
	2024	2044
ADT	17,500	21,400
SU%	7.9%	
MU%	19.5%	

IL 111 FROM I-270 TO ENGINEERS RD.		
	2024	2044
ADT	15,350	18,750
SU%	4.2%	
MU%	2.9%	

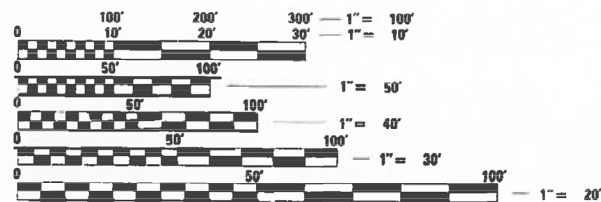
BEGIN PROJECT  
STA. 17 + 27.44  
(EX. IL RTE. 111)  
LAT.: 38.76112  
LONG.: -90.06658

END PROJECT  
STA. 48 + 00.00  
(EX. IL RTE. 111)  
LAT.: 38.75358  
LONG.: -90.06886



LOCATION MAP  
(NOT TO SCALE)

GROSS LENGTH = 3072.50 FT. = 0.582 MILE  
NET LENGTH = 3072.50 FT. = 0.582 MILE



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

PROJECT ENGINEER: TIFFANY BRASE  
PROJECT MANAGER: JON DINTELMAN

CONTRACT NO. 76818

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED June 24, 2024  
Kel Hartz  
REGIONAL ENGINEER

June 28, 2024 [Signature]  
ENGINEER OF DESIGN AND ENVIRONMENT

June 28, 2024 [Signature]  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

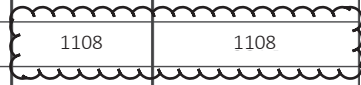
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OF THE STATE OF ILLINOIS





CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				ROADWAY
				0003 URBAN
20101400	NITROGEN FERTILIZER NUTRIENT	POUND	3289	3289
20101500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	3289	3289
20101600	POTASSIUM FERTILIZER NUTRIENT	POUND	3289	3289
20200100	EARTH EXCAVATION	CU YD	98776	98776
20400800	FURNISHED EXCAVATION	CU YD	1268	1268
20800150	TRENCH BACKFILL	CU YD	2672	2672
25000200	SEEDING, CLASS 2	ACRE	37	37
25100115	MULCH, METHOD 2	ACRE	73	73
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	4277	4277
28000305	TEMPORARY DITCH CHECKS	FOOT	1063	1063
28000400	PERIMETER EROSION BARRIER	FOOT	2272	2272
28000500	INLET AND PIPE PROTECTION	EACH	14	14
28000510	INLET FILTERS	EACH	44	44
28100105	STONE RIPRAP, CLASS A3	SQ YD	1414	1414

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				ROADWAY
				0003 URBAN
28100107	STONE RIPRAP, CLASS A4	SQ YD	114	114
28200200	FILTER FABRIC	SQ YD	114	114
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	67,277	67,277
31200500	STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"	SQ YD	67,277	67,277
35101600	AGGREGATE BASE COURSE, TYPE B 4'	SQ YD	1108	1108
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	90	90
40600370	LONGITUDINAL JOINT SEALANT	FOOT	1350	1350
40603090	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	TON	454	454
40604164	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N90	TON	312	312
42000060	WELDED WIRE REINFORCEMENT	SQ YD	46466	46466
42000521	PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)	SQ YD	46466	46466
42001300	PROTECTIVE COAT	SQ YD	58289	58289
44000100	PAVEMENT REMOVAL	SQ YD	35,642	35,642
44000164	HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4"	SQ YD	3599	3599



△ REVISED 7-15-2024

REV - MS

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USER NAME = Jon.Dintelman	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = 100.0000' / in.	CHECKED - _____	REVISED - _____
PLOT DATE = 6/5/2024	DATE - _____	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: \_\_\_\_\_ SHEET OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60-3K-1	MADISON	576	4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76818	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				ROADWAY	
				0003	URBAN
* X1400174	REMOVE AND REINSTALL EXISTING CCTV CAMERA AND EQUIPMENT	L SUM	1	1	
X2010310	TREE REMOVAL (SPECIAL)	UNIT	308	308	
X4020500	AGGREGATE SURFACE COURSE, TYPE B 6"	SQ YD	9	9	
X4202005	DIAMOND GRINDING AND GROOVING (ROADWAY SECTION)	SQ YD	46466	46466	
X6024504	INLETS, TYPE B, WITH FRAME AND GRATE (SPECIAL)	EACH	4	4	
X6060101	CLASS SI CONCRETE PIPE UNDER DRAIN OUTLET	CU YD	17	17	
X6640104	FENCE REMOVAL	FOOT	125	125	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
* X8100105	CONDUIT SPLICE	EACH	5	5	
X8302151	TEMPORARY WOOD POLE, 50 FT., CLASS 4	EACH	11	11	
X8301804	REMOVAL OF TEMPORARY WOOD POLES AND FIBER OPTIC CABLE	L SUM	1	1	
X8410102	TEMPORARY LIGHTING SYSTEM	L SUM	1	1	
X8570000	SMART TRAFFIC MONITORING SYSTEM	L SUM	1	1	
* X8570231	FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL	EACH	1	1	

\* SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				ROADWAY	
				0003	URBAN
* X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1	1	
* X8710318	FIBER OPTIC UTILITY MARKER	EACH	7	7	
* X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	5068	5068	
* X8710075	FIBER OPTIC CABLE IN CONDUIT, 72 COND. S.M. F.O.	FOOT	2880	2880	
* X8710103	ETHERNET SWITCH	EACH	2	2	
* X8891007	VIDEO VEHICLE DETECTION SYSTEM COMPLETE	EACH	2	2	
* X8891503	REMOVE AND REINSTALL VIDEO DETECTION CAMERA	EACH	1	1	
X8900100	TEMPORARY TRAFFIC SIGNAL INSTALLATION (SPECIAL)	EACH	1	1	
X8950510	REMOVE FIBER OPTIC CABLE FROM CONDUIT	FOOT	2880	2880	
Z0023500	FILLING EXISTING CULVERTS	CU YD	69	69	
* Z0033056	OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1	1	
Z0073345	SLEEPER SLAB	FOOT	591	591	
* Z0054406	ROCK FILL - FOUNDATION	CU YD	106	106	
Ø Z0076600	TRAINEES	hour	4500	4500	
Z0070100	SURVEY MONUMENT COVER ASSEMBLY	EACH	3	3	
Ø Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	hour	4500	4500	
Z0076870	UNDERDRAIN CONNECTION TO STRUCTURE	EACH	29	29	

Ø 0042

△ REVISED 7-15-2024

REV. - MS

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USER NAME = Jon.Dintelman	DESIGNED - _____	REVISED - _____	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DRAWN - _____	REVISIONS - _____	REVISIONS - _____					270	60-3K-1	MADISON	576	12
PLOT SCALE = 100.0000' / in.	CHECKED - _____	REVISIONS - _____		SCALE: _____ SHEET OF _____ SHEETS STA. _____ TO STA. _____			CONTRACT NO. 76818				
PLOT DATE = 6/5/2024	DATE - _____	REVISIONS - _____					ILLINOIS FED. AID PROJECT				

HMA RESURFACING SCHEDULE							
LOCATION			HMA SURFACE REMOVAL, 3.75"	BITUMINOUS MATERIALS (TACK COAT)	HMA BINDER COURSE, 2.25"	POLYMERIZED HMA SURFACE COURSE, 1.50"	LONGITUDINAL JOINT SEALANT
STA	TO	STA	(SQ YD)	(POUND)	(TON)	(TON)	(TON)
SOUTHBOUND							
541+66.62	TO	548+41.32	1799.20	44.98	226.70	156.17	674.70
NORTHBOUND							0.00
641+67.33	TO	642+47.38	213.47	5.34	26.90	18.53	80.05
642+47.38	TO	643+64.72	312.91	7.82	39.43	27.16	117.34
643+64.72	TO	648+24.40	1225.81	30.65	154.45	106.40	459.68
648+24.40	TO	648+42.38	47.95	1.20	6.04	4.16	17.98
TOTAL			3599	90	454	312	1350

EROSION CONTROL SCHEDULE									
LOCATION			LT/RT	TEMP. EROSION CONTROL SEEDING	SEEDING, CL 2	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	MULCH METHOD 2
STA	to	Sta		(lb)	(ac)	(lb)	(lb)	(lb)	(ac)
IL 111 (EX. STA.)									
17+75	to	21+91	LT	21	0.18	16.3	16.3	16.3	0.36
17+75	to	19+03	RT	6	0.05	4.8	4.8	4.8	0.10
40+35	to	48+00	LT	74	0.63	56.7	56.7	56.7	1.26
40+35	to	48+00	RT	53	0.45	40.7	40.7	40.7	0.90
RAMP A									
1102+72	to	1116+85	LT	434	3.71	333.7	333.7	333.7	7.42
1102+72	to	1116+85	RT	414	3.54	318.5	318.6	318.6	7.08
RAMP B									
2000+00	to	2014+62	LT	601	5.14	462.5	462.5	462.5	10.28
2000+00	to	2014+62	RT	614	5.25	472.1	472.1	472.1	10.50
RAMP C									
3302+32	to	3316+08	LT	499	4.26	383.5	383.6	383.6	8.52
3302+32	to	3316+08	RT	409	3.49	314.4	314.4	314.4	6.98
RAMP D									
4400+00	to	4414+52	LT	650	5.56	500.4	500.4	500.4	11.12
4400+00	to	4414+52	RT	426	3.64	327.3	327.3	327.3	7.28
I-270 WB (EX. STA.)									
388+97	to	375+07	RT	76	0.65	58.2	58.2	58.2	1.30
TOTAL =				4277	37	3289	3289	3289	73

CONCRETE MEDIAN 4"						
LOCATION			AREA	CONCRETE MEDIAN SURFACE 4"	PROTECTIVE COAT	AGGREGATE BASE COURSE TYPE B, 4"
STA	to	STA	(SQ FT)	(SQ FT)	(SQ YD)	(SQ YD)
NORTH MEDIAN						
517+95.52	TO	519+73.28	414.77	46.09	46.09	6.12
519+73.28	TO	524+84.71	14320.64	1591.18	1591.18	176.80
MEDIAN						
526+01.21	TO	534+69.03	30177.97	3353.11	3353.11	372.57
SOUTH MEDIAN						
535+93.46	TO	541+66.58	18125.36	2013.93	2013.93	223.77
RAMP A ISLAND						
1115+56.58	TO	1116+66.81	6214.75	690.53	690.53	76.73
RAMP B ISLAND						
2000+24.84	TO	2001+42.41	7680.50	853.39	853.39	94.82
RAMP C ISLAND						
3315+84.93	TO	3314+96.76	4954.42	550.49	550.49	61.17
RAMP D ISLAND						
4400+23.09	TO	4401+40.24	7853.25	872.58	872.58	96.95
TOTAL =				9971	9971	1108

1 REVISD 7-15-2024

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USER NAME = Jon.Dintelman	DESIGNED - _____	REVISED - _____
DRAWN - _____	REVISIONS - _____	
PLOT SCALE = 100.0000' / in.	CHECKED - _____	REVISED - _____
PLOT DATE = 7/12/2024	DATE - _____	REVISED - _____

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

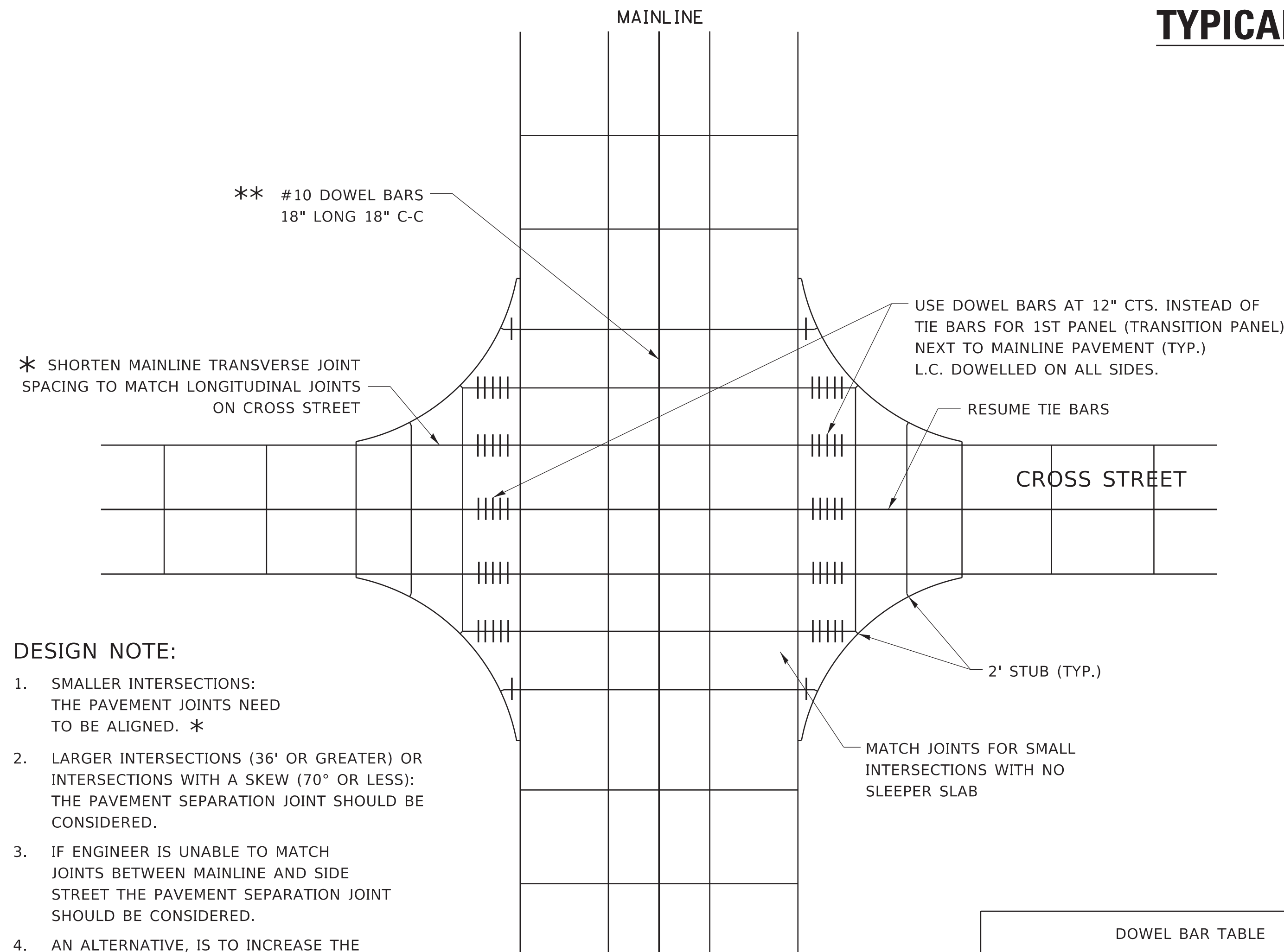
SCHEDULES

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60-3K-1	MADISON	576	40
			CONTRACT NO. 76818	
		ILLINOIS FED. AID PROJECT		

# TYPICAL APPLICATION

**THE USE OF CROSS STREET PAVEMENT SEPARATION JOINTS FOR SKEWED OR LARGE INTERSECTIONS WHERE JOINTS MAY NOT MATCH**

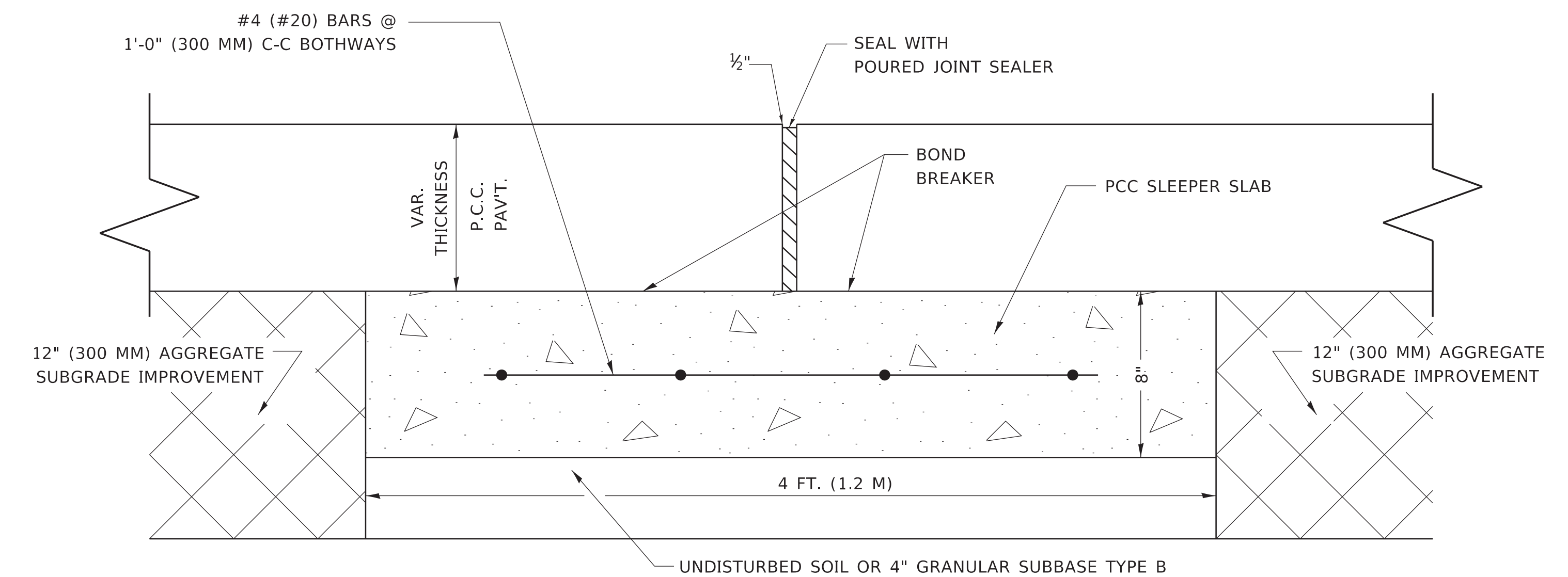
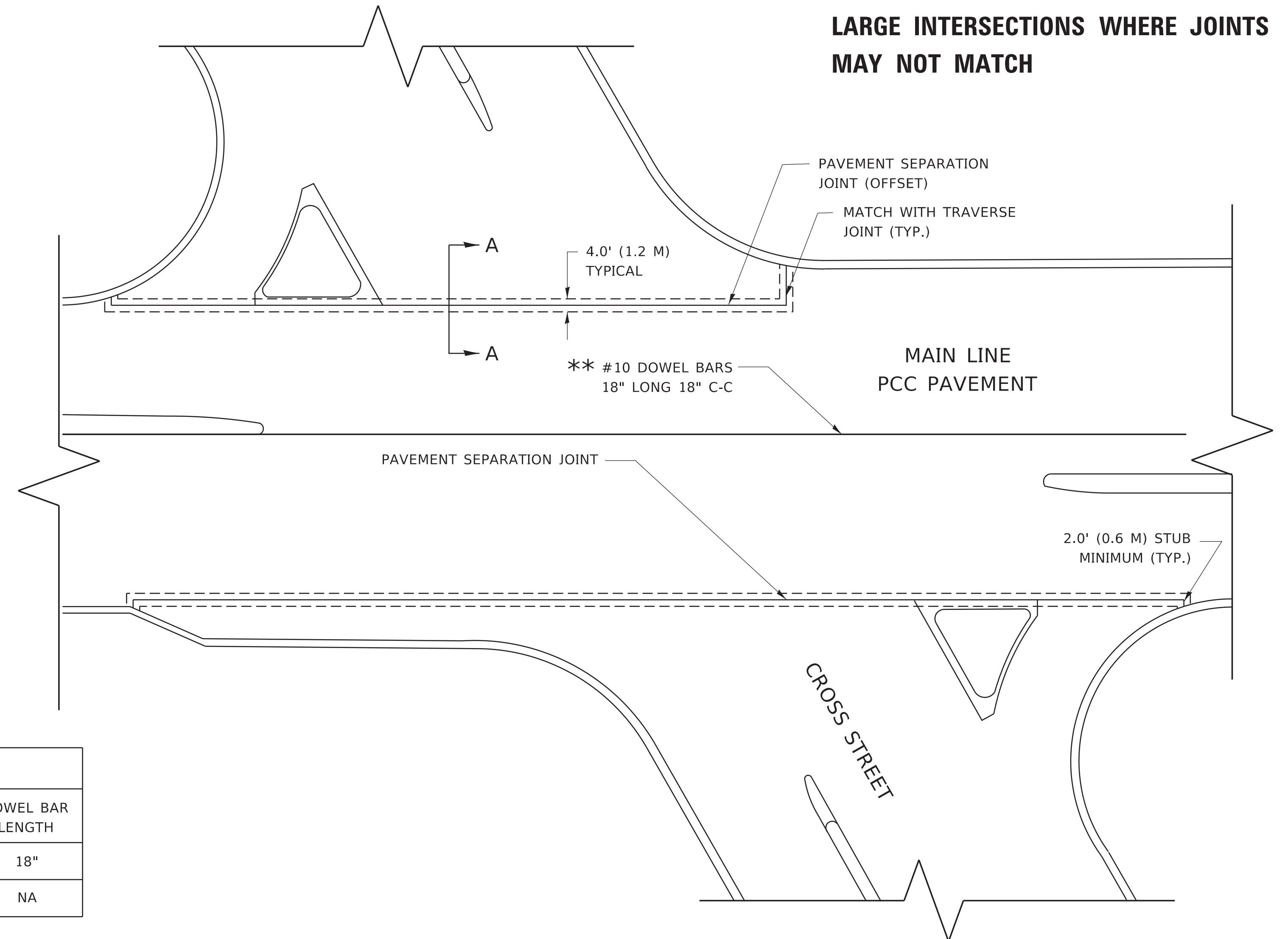


**DESIGN NOTE:**

1. SMALLER INTERSECTIONS: THE PAVEMENT JOINTS NEED TO BE ALIGNED. \*
2. LARGER INTERSECTIONS (36' OR GREATER) OR INTERSECTIONS WITH A SKEW (70° OR LESS): THE PAVEMENT SEPARATION JOINT SHOULD BE CONSIDERED.
3. IF ENGINEER IS UNABLE TO MATCH JOINTS BETWEEN MAINLINE AND SIDE STREET THE PAVEMENT SEPARATION JOINT SHOULD BE CONSIDERED.
4. AN ALTERNATIVE, IS TO INCREASE THE PAVEMENT THICKNESS BY 1/2" FOR THE LENGTH OF THE AFFECTED PANELS AT THE INTERSECTION.
5. FOR LARGE INTERSECTIONS, (6 LANES OR MORE) WHERE JOINTS CAN BE MATCHED, USE #8 (25) DOWEL BARS INSTEAD OF #8 (25) TIE BARS AT EDGE OF MAINLINE PAVEMENT WHEN NO PAVEMENT SEPARATION JOINTS USED.

**PLAN**

DOWEL BAR TABLE		
PAVEMENT THICKNESS	DOWEL BAR DIAMETER	DOWEL BAR LENGTH
8" OR GREATER	1 1/2"	18"
LESS THAN 8"	NA	NA



**PROPOSED SECTION A-A**

**METHOD OF MEASUREMENT**

THIS WORK WILL BE MEASURED FOR PAYMENT IN FEET, MEASURED IN PLACE.

**BASIS OF PAYMENT**

1. THIS WORK WILL BE PAID FOR AT THE UNIT PRICE PER FOOT FOR "SLEEPER SLAB".
2. BOND BREAKER AND 1/2" (13MM) JOINT FILLER SHALL BE INCLUDED IN THE PAY ITEM "SLEEPER SLAB"

**NOTE:**

1. JOINT FILLER SHALL CONSIST OF A SHEET OF 1/2" BITUMINOUS PREFORMED FIBER JOINT FILLER CONFORMING TO ARTICLE 1051.03 OF THE STANDARD SPECIFICATIONS.
2. THE JOINT SHALL BE SEALED WITH A HOT POUR JOINT SEALER CONFORMING TO ARTICLE 1050.02 OF THE STANDARD SPECIFICATIONS.
3. A SINGLE LAYER OF FELT ROOFING PAPER SHALL SERVE AS A BOND BREAKER.
4. JOINT SHALL CONTINUE THROUGH COMBINATION CURB & GUTTER OR PCC SHOULDER.

△ SHEET ADDED 7-15-2024

MODEL: Default  
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USER NAME = footemj	DESIGNED - TGM	REVISED - CADD 06-18-10
	DRAWN -	REVISED - O. PATEL 3-27-19
PLOT SCALE = 50.0000' / in.	CHECKED - AM	REVISED -
PLOT DATE = 3/27/2019	DATE - 05-14-2002	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>DETAIL OF PAVEMENT SEPARATION JOINT FOR JOINTED PCC PAVEMENTS AT INTERSECTIONS</b>			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.P. RTE. 270	SECTION 60-3K-1	COUNTY MADISON	TOTAL SHEETS 576	SHEET NO. 227A
<b>BD52</b>		CONTRACT NO. 76818		
ILLINOIS FED. AID PROJECT				