

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

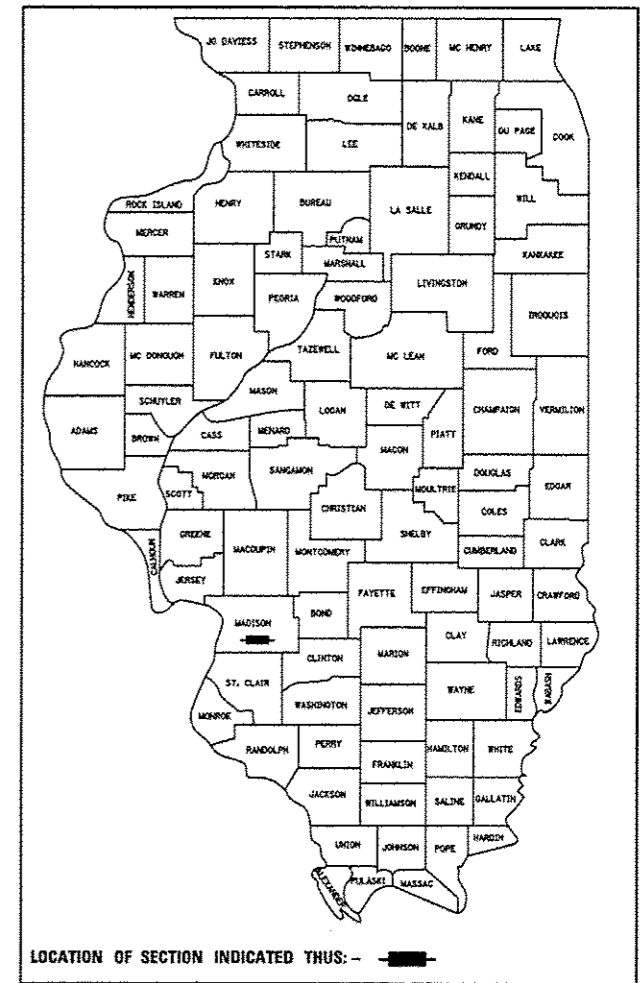
**PROPOSED  
HIGHWAY PLANS**

VARIOUS ROUTES  
SECTION DIST 8 RESURFACING 2016-1  
HALF SMART - RESURFACING  
MADISON COUNTY

C-98-041-15

VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR. DIST 8 RESURFACING 2016-1	ILLINOIS	MADISON	9	1
CONTRACT NO. 76H91				

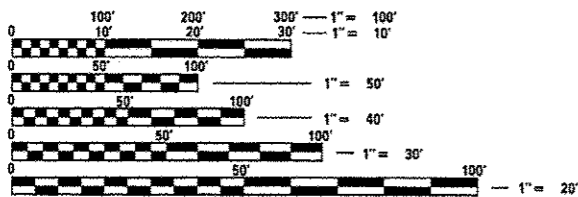
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FOR INDEX OF SHEETS, SEE SHEET NO. 2

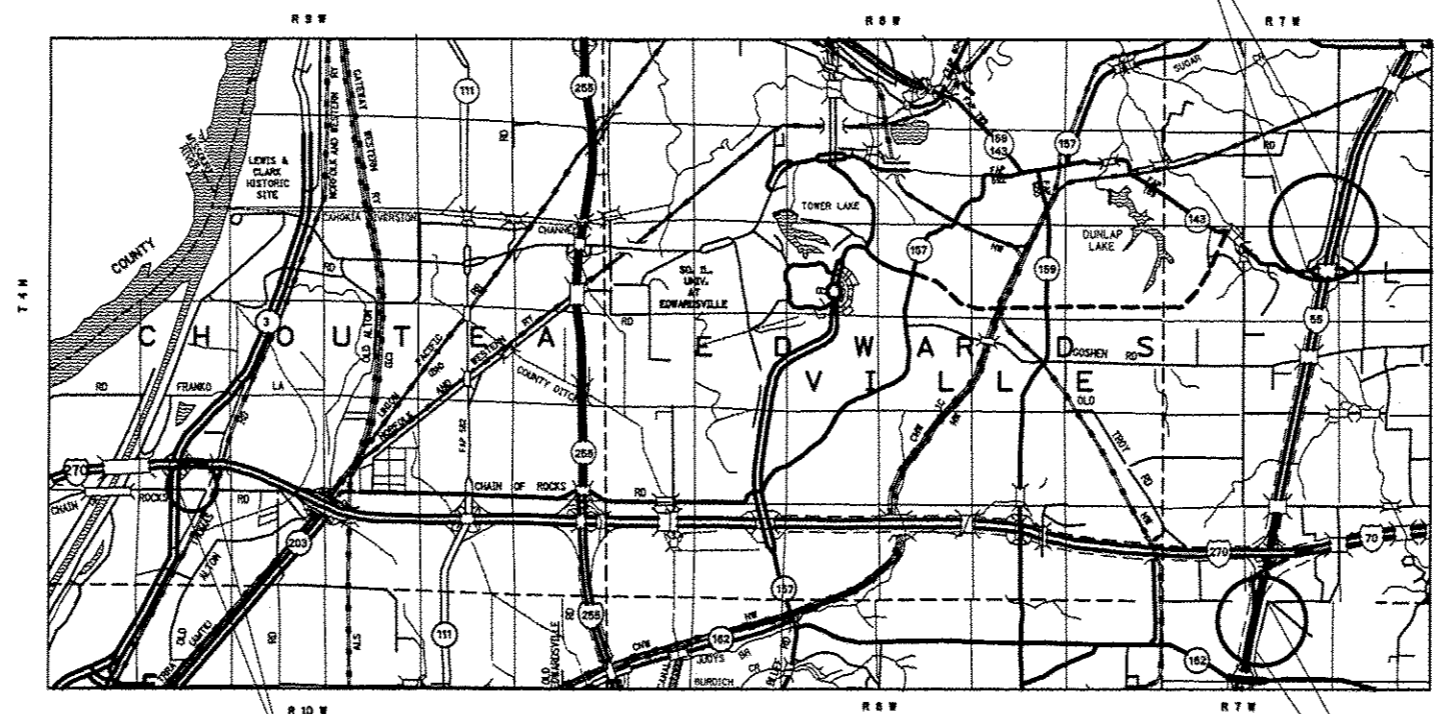
**TRAFFIC DATA**

LOCATION 1	LOCATION 2	LOCATION 3
ADT: 750 (2016)	ADT: 2200 (2016)	ADT: 750 (2016)
900 (2036)	2600 (2036)	900 (2036)
SU: 2.0%	SU: 4.7%	SU: 2.7%
MU: 0.8%	MU: 5.1%	MU: 1.1%

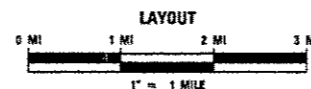


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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



PROJECT LOCATION 2  
W CHAIN OF ROCKS RD FROM  
IL 3 TO E OF ST THOMAS RD



LOCATION 1: GROSS/NET LENGTH = 3186.0 FT = 0.603 MILE  
LOCATION 2: GROSS/NET LENGTH = 1675.0 FT = 0.317 MILE  
LOCATION 3: GROSS/NET LENGTH = 4434.0 FT = 0.840 MILE

PROJECT LOCATION 1  
LIEBLER RD FROM BOUSE RD  
TO 0.6 MILE S OF BOUSE RD

PROJECT ENGINEER: HERVE GELIN (618) 346-3323

CONTRACT NO. 76H91

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED Dec 15 20 15  
Jeffrey Z. K...  
DEPUTY DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER

Jan 29 20 16  
Maureen M. Addis P.E.  
ENGINEER OF DESIGN AND ENVIRONMENT

Jan 29 20 16  
Omer Osman P.E.  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS**

INDEX OF SHEETS

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2. INDEX OF SHEETS/HIGHWAY STANDARDS/GENERAL NOTES  
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5. - 6. TYPICAL SECTIONS
7. SCHEDULES OF QUANTITIES
8. LOCATION MAP
9. BUTT-JOINT AND SIDEROAD DETAILS

HIGHWAY STANDARDS

000001-06  
001006  
701011-04  
701201-04  
701306-03  
701311-03  
701501-06  
701901-04  
780001-05  
781001-03

COMMITMENTS

NONE

GENERAL NOTES

1. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. (1-800-892-0123 OR 811) OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY.
2. AT LOCATIONS WHERE PERMANENT PAVEMENT MARKINGS ARE PROPOSED, THE CONTRACTOR SHALL SWEEP THE ENTIRE ROADWAY A MINIMUM OF TWO WEEKS, BUT NOT TO EXCEED THREE WEEKS, AFTER APPLICATION OF SEAL COAT AGGREGATE TO ALLOW PLACEMENT OF THE PAINT PAVEMENT MARKINGS. OF THIS TIME FRAME, THERE MUST BE SEVEN CONSECUTIVE DAYS OF DRY WEATHER BEFORE THE FINAL PAVEMENT MARKINGS CAN BE APPLIED. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE PRICE OF THE SURFACE TREATMENT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
3. THE CONTRACTOR AND THE ENGINEER SHALL BE AWARE THAT NO SURVEY WAS PERFORMED FOR THIS PROJECT. THE STATIONING AND TOPOGRAPHY SHOWN IN THE PLANS WAS CREATED USING MICROFILM AND FIELD MEASUREMENTS. BOTH SHALL BE ASSUMED TO BE APPROXIMATE. THE CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
4. THE LOCATIONS OF THE REPAIR AREAS AS SHOWN IN THE PLANS ARE APPROXIMATE LOCATIONS. THE EXACT LOCATIONS SHALL BE DETERMINED BY THE ENGINEER.
5. ALL TURF AREAS DISTURBED BY THE CONTRACTOR SHALL BE SEEDED WITH THE APPROPRIATE EROSION CONTROL AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
6. TWO CHANGEABLE MESSAGE BOARDS SHALL BE REQUIRED FOR THIS PROJECT AT EACH LOCATION. THEY SHALL BE PLACED ONE WEEK PRIOR TO ANY LANE CLOSURE. THE CHANGEABLE MESSAGE BOARDS SHALL BE PLACED ALONG IL 162, IL 3, AND IL 143 AS DIRECTED BY THE ENGINEER.
7. ALL CONSTRUCTION SIGNS SHALL BE 48"x48" FLUORESCENT ORANGE.
8. THE PROPOSED PAVEMENT MARKING SHALL MATCH THE LOCATIONS OF THE EXISTING PAVEMENT MARKING, AS DIRECTED BY THE ENGINEER.
9. SHORT TERM PAVEMENT MARKING SHALL NOT INTERFERE WITH FINAL MARKINGS. ONLY REMOVAL FROM THE FINAL SURFACE SHALL BE PAID FOR AS "WORK ZONE PAVEMENT MARKING REMOVAL".
10. ALL MILLED AREAS SHALL BE RESURFACED WITH THE APPROPRIATE SURFACE COURSE PRIOR TO OPENING THE LANE TO TRAFFIC.
11. THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS CONTRACT:

MIXTURE USE	LEVEL BINDER	PATCHING
AC/PG	PG 64-22	PG 64-22
RAP % (MAX)	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION
DESIGN AIR VOIDS	4.0% @ Ndes=70	4.0% @ Ndes=70
MIX COMPOSITION (GRADATION)	IL 9.5FG	IL 19.0
FRICTION AGG	MIXTURE "C"	MIXTURE "B"
QUALITY MGMT PROGRAM	OC/OA	OC/OA

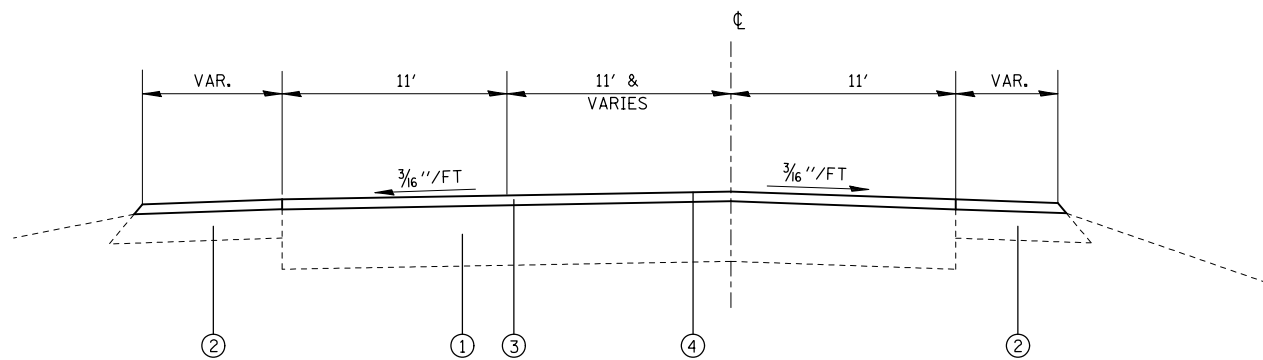
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PLOT DATE = 12/4/2015		DATE -	REVISED -			SCALE: _____	SHEET NO. _____ OF _____ SHEETS	STA. _____ TO STA. _____	FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				100% STATE
			URBAN	ROADWAY
				0005
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	10170	10170
40600637	LEVELING BINDER (MACHINE METHOD), IL-9.5FG, N70	TON	966	966
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	337	337
44200074	PAVEMENT PATCHING, TYPE I, 7 INCH	SO YD	3	3
44200079	PAVEMENT PATCHING, TYPE II, 7 INCH	SO YD	8	8
44200086	PAVEMENT PATCHING, TYPE IV, 7 INCH	SO YD	74	74
48101200	AGGREGATE SHOULDERS, TYPE B	TON	924	924
67100100	MOBILIZATION	LSUM	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	LSUM	1	1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	LSUM	1	1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	1	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	2074	2074
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	24682	24682
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	8919	8919

14

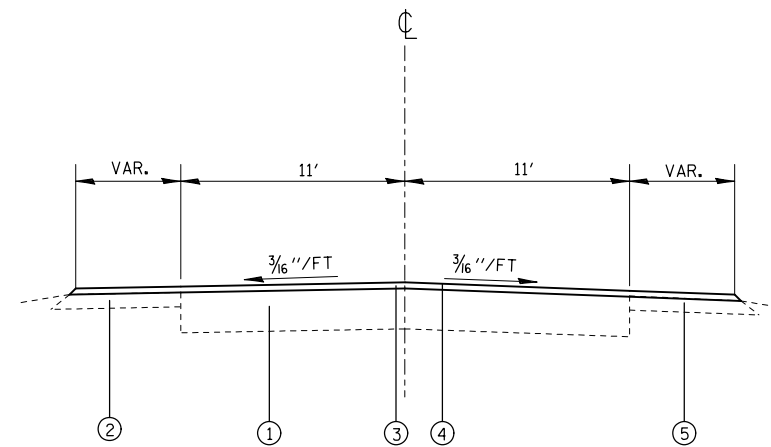
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				100% STATE
				URBAN ROADWAY 0005
* 78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	65	65
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	23420	23420
* 78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	24	24
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	133	133
78300100	PAVEMENT MARKING REMOVAL	SO FT	4963	4963
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	26	26
X0326216	BITUMINOUS SURFACE TREATMENT, (PREVENTIVE MAINTENANCE)	SO YD	22981	22981

\* SPECIALTY ITEM



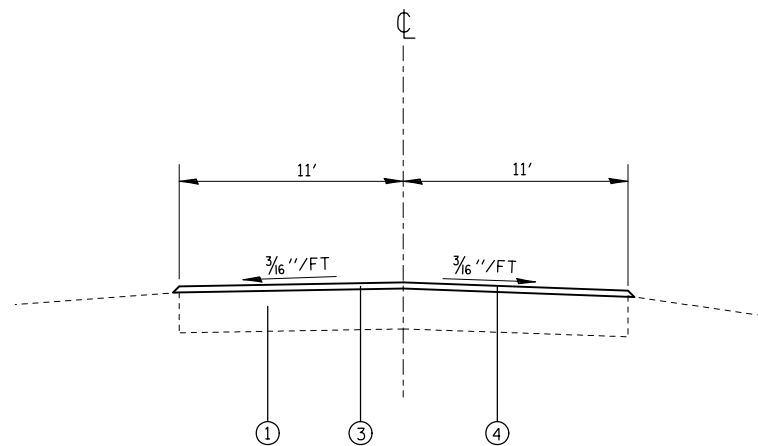
**PROPOSED W. CHAIN OF ROCKS RD.**

MILE STA. 0.00 TO 0.070



**PROPOSED W. CHAIN OF ROCKS RD.**

MILE STA. 0.276 TO 0.317



**PROPOSED W. CHAIN OF ROCKS RD.**

MILE STA. 0.070 TO 0.276

**LEGEND**

- ① EXISTING PAVEMENT
- ② EXISTING HMA SHOULDER
- ③ PROPOSED LEVELING BINDER (MACHINE METHOD) 3/4"
- ④ PROPOSED BITUMINOUS SURFACE TREATMENT (PREVENTIVE MAINTENANCE)

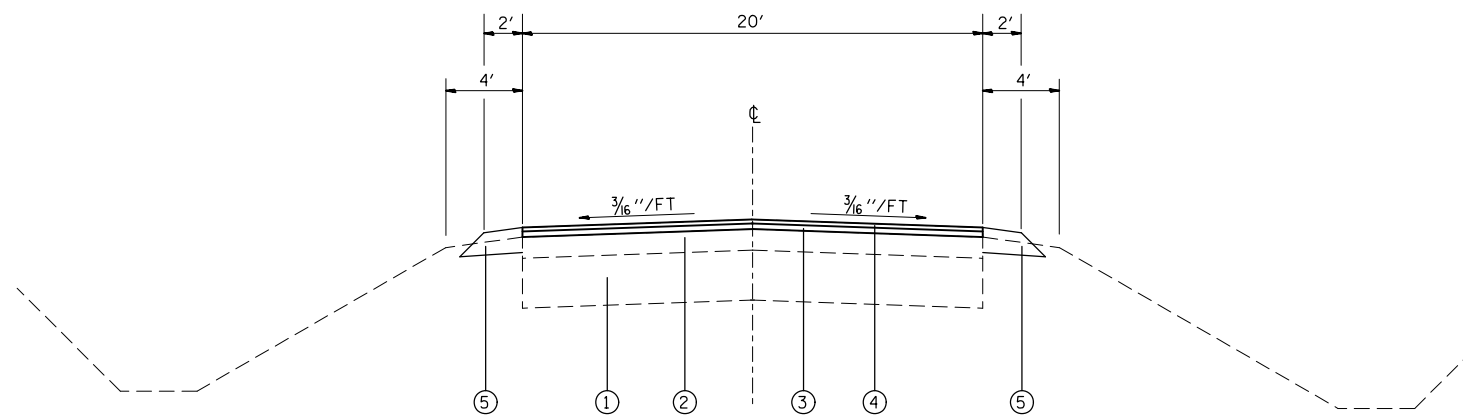
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

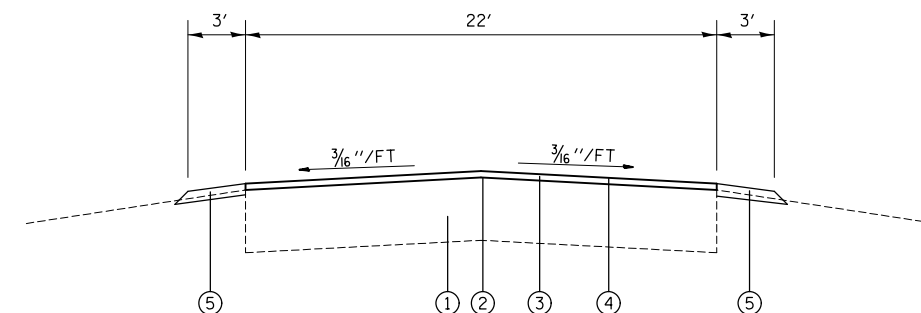
**TYPICAL SECTION - W. CHAIN OF ROCKS RD**

SCALE: \_\_\_\_\_ SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR. DIST 8 RESURFACING 2016-1		MADISON	9	5
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 76H91	



**PROPOSED LIEBLER RD**  
STA. 51+57.00 TO STA. 93+43.00



**PROPOSED BLACKBURN RD**  
MILE STA. 0.00 TO 0.84

**LEGEND**

- ① EXISTING SUBBASE GRANULAR MATERIAL, TYPE B 12"
- ② EXISTING AGGREGATE SURFACE TYPE A 7" (WITH A-3 SURFACE TREATMENT)
- ③ PROPOSED LEVELING BINDER (MACHINE METHOD) 3/4"
- ④ PROPOSED BITUMINOUS SURFACE TREATMENT (PREVENTIVE MAINTENANCE)
- ⑤ PROPOSED AGGREGATE SHOULDER TYPE B 4"

**LEGEND**

- ① EXISTING AGGREGATE BASE COURSE
- ② EXISTING BITUMINOUS A-1 & 3 SURFACE
- ③ PROPOSED LEVELING BINDER (MACHINE METHOD) 3/4"
- ④ PROPOSED BITUMINOUS SURFACE TREATMENT (PREVENTIVE MAINTENANCE)
- ⑤ PROPOSED AGGREGATE SHOULDER TYPE B 4"

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		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTION - LIEBLER RD AND BLACKBURN RD**

SCALE: \_\_\_\_\_ SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR. DIST 8 RESURFACING 2016-1		MADISON	9	6
			CONTRACT NO. 76H91	
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT				

RESURFACING SCHEDULE

LOCATIONS			LENGTH (FT)	WIDTH (FT)	AREA (SQ YD)	BIT. SURF. TREATMENT (PREVENTIVE MAINTENANCE) (SQ YD)	BIT. MAT'L PRIME COAT (POUND)	LEVELING BINDER (MACHINE METHOD) (TON)	HMA SURFACE REMOVAL BUTT - JOINT (SQ YD)	AGGREGATE SHOULDERS TYPE B (TON)
LOCATION 1 - LIEBLER RD										
51+57.00	TO	93+43.00								
			3186.00	20.00	7080.00	7080.00	3186.00	297.36	88.89	
										298.95
LOCATION 2 - W CHAIN OF ROCKS RD										
0.00	TO	0.070	371.00	27.50*	1133.61	1133.61	510.13	47.61	100.83	
0.070	TO	0.317	1304.00	22.00	3187.56	3187.56	1434.40	133.88	48.89	
0.276	TO	0.317	215.00	7.29*	174.15	174.15	78.37	7.31		
0.276	TO	0.317	215.00	7.70*	184.00	184.00	82.80	7.73		
LOCATION 3 - BLACKBURN RD										
0.00	TO	0.840	4434.00	22.00	11221.06**	11221.06	4877.40	471.28	97.78	
0.00	TO	0.840	4434.00	3.00	2956.00					624.07
TOTAL						22980.37	10169.09	965.18	336.39	923.02

\* DENOTE AVERAGE WIDTH

\*\* INCLUDING A QTY OF 382.39 SQ YD FOR THE DEAD-END

PATCHING SCHEDULE

LOCATIONS	LENGTH (FT)	WIDTH (FT)	AREA (SQ FT)	TYPE (SQ YD)		
				I	II	IV
LOCATION 2 - W CHAIN OF ROCKS RD						
	50	11	550			61.1
	10	6	60		6.7	
	5	4	20	2.2		
SUB-TOTAL				2.2	6.7	61.1
ANTICIPATED FAILURE (20%)				0.4	1.3	12.2
TOTAL				2.7	8.0	73.3

NOTE: LOCATIONS OF PATCHES TO BE DETERMINED BY THE ENGINEER

TEMPORARY PAVEMENT MARKING SCHEDULE

STATION			TEMP PVMT MARKING LINE 4" (FT)	SHORT TERM PAVEMENT MARKING (FT)	WORK ZONE PAVEMENT REMOVAL (SQ FT)	RAISED REFL. PVMT MARKER REMOVAL (EA)	PAVEMENT MARKING REMOVAL (SQ FT)
LOCATION 1 - LIEBLER RD							
51+57.00	TO	93+43.00	8372.00	761.09	3044.4		2790.67
LOCATION 2 - W CHAIN OF ROCKS RD							
0.00	TO	0.317	3350.00	134.00	1161.3		1116.67
0.00	TO	0.07	1484.00	134.91	539.6	10	494.67
0.070	TO	0.317	2608.00	237.09	948.4	16	560.81
LOCATION 3 - BLACKBURN RD							
0.000	TO	0.840	8868.00	806.18	3224.7		
TOTAL			24682.0	2073.3	8918.4	26	4962.8

PAVEMENT MARKING SCHEDULE

STATION	LETTER AND SYMBOLS (SQ FT)	PAINT PAVEMENT MARKING				RAISED REFL PAVEMENT MARKERS TWO-WAY (EA)
		4" WHITE LINE (FT)	4" YELLOW SKIP DASH LINE (FT)	4" YELLOW LINE (FT)	24" WHITE LINE (FT)	
LOCATION 1 - LIEBLER RD						
51+57.00	93+43.00	CENTER LINE - DBL			8372.0	52
LOCATION 2 - W CHAIN OF ROCKS RD						
0.00	TO	0.317	EDGE LINE	3350.0		26
0.00	TO	0.07	CENTER LINE		1484.0	
0.070	TO	0.080	NO PASSING LT		420.0	
0.070	TO	0.233	CENTER LINE - SKIP		307.0	
0.215	TO	0.233	NO PASSING RT		463.0	
0.227			RR MARKINGS	64.14		24.0
0.233	TO	0.247	CENTER LINE - DBL		156.0	
LOCATION 3 - BLACKBURN RD						
0.00		0.84	CENTER LINE - DBL		8868.0	55
SUB TOTAL				3350.00	307.0	19763.0
TOTAL			64.14		23420.0	24.0

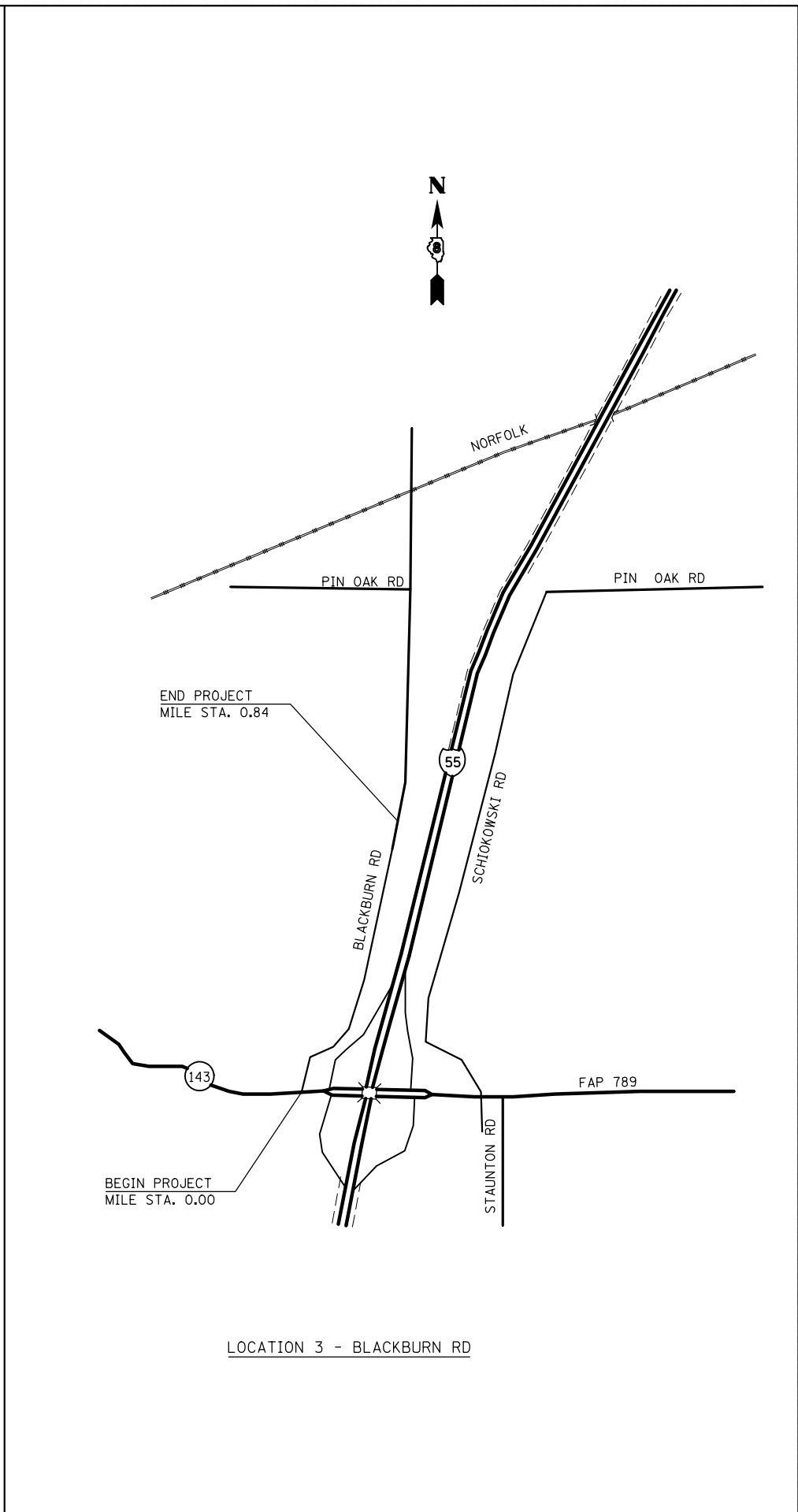
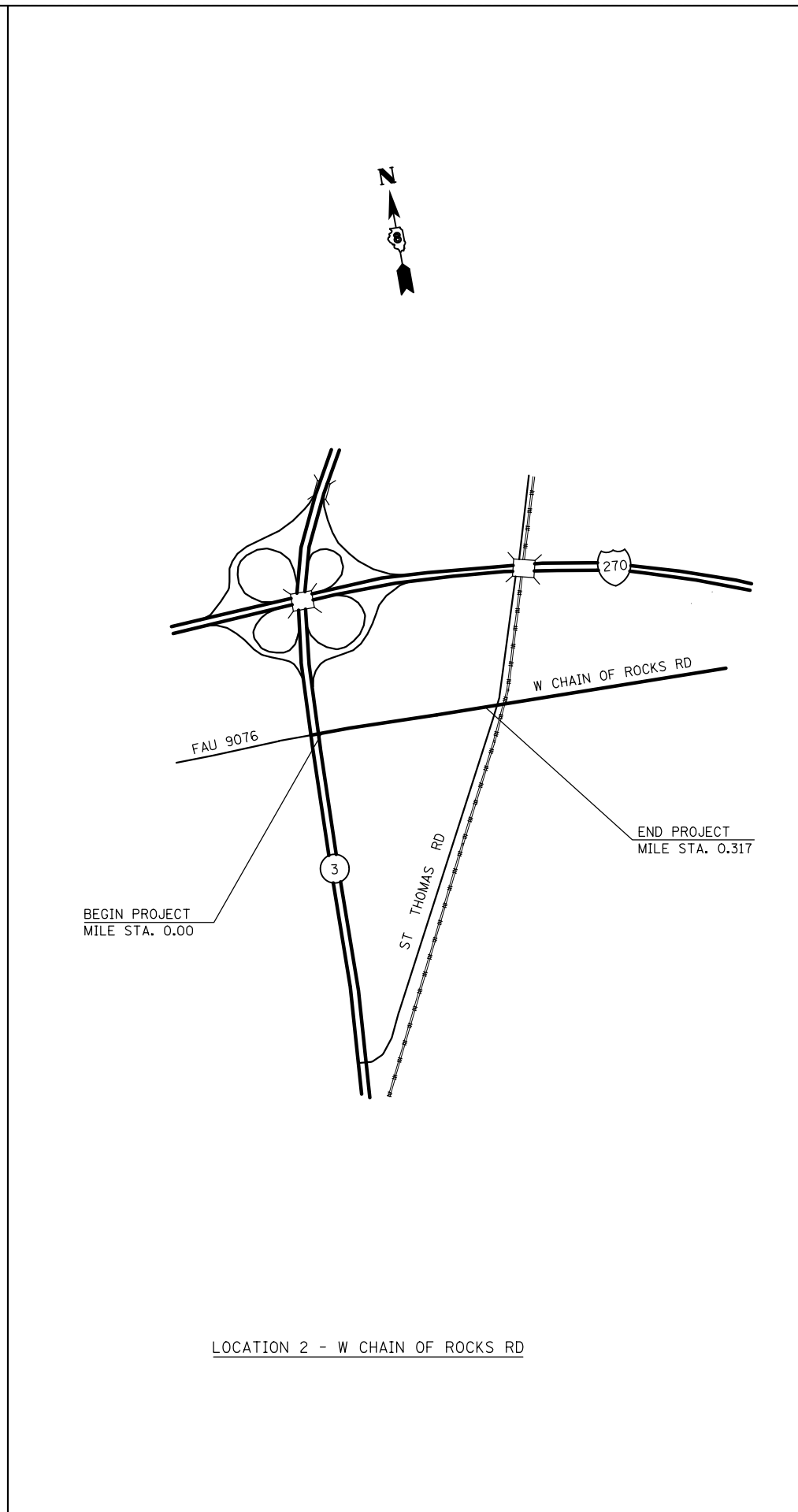
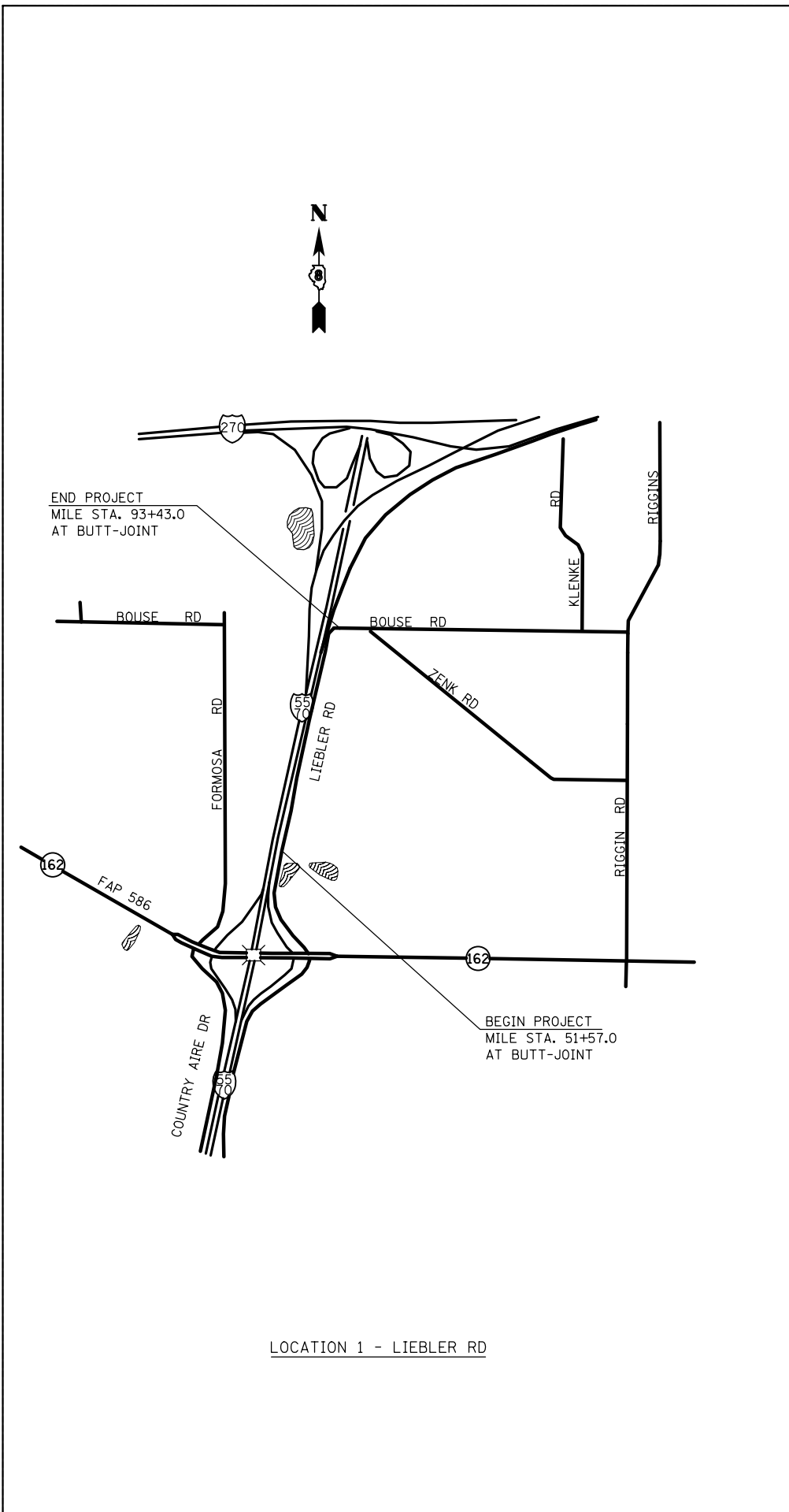
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: \_\_\_\_\_ SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	VAR. DIST 8 RESURFACING 2016-1	MADISON	9	7
			CONTRACT NO. 76H91	
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT				



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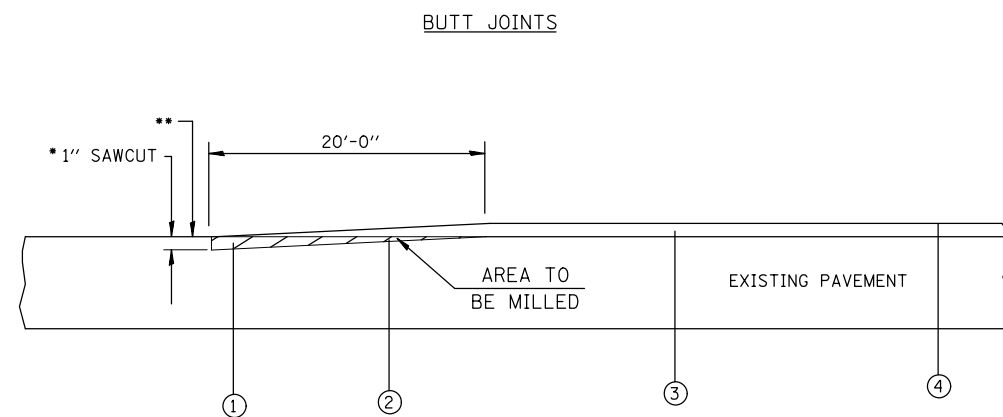
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LOCATION MAP**

SCALE: \_\_\_\_\_ SHEET NO. \_\_\_\_ OF \_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR. DIST 8 RESURFACING 2016-1		MADISON	9	8
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT			CONTRACT NO. 76H91	



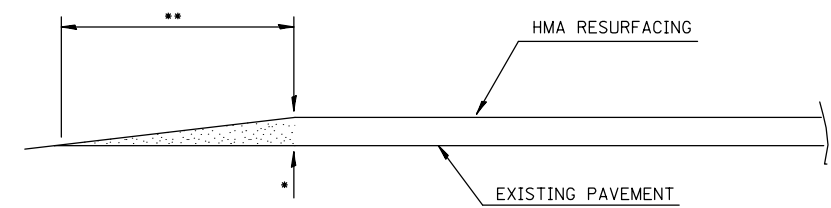


**LEGEND**

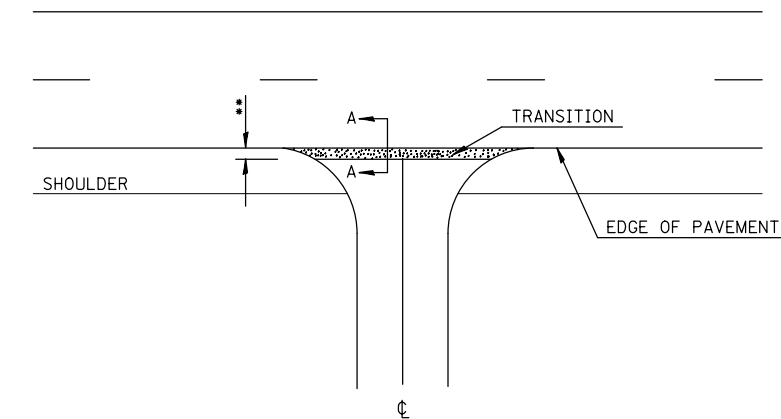
- ① HMA SURFACE REMOVAL-BUTT JOINT
- ② BITUMINOUS MATERIAL (PRIME COAT)
- ③ LEVELING BINDER (MACHINE METHOD), N70
- ④ BITUMINOUS SURFACE TREATMENT (PREVENTATIVE MAINTENANCE)

\* COST OF SAWCUT TO BE INCLUDED IN HMA SURFACE REMOVAL-BUTT JOINT; NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

\*\*EXTEND HMA SURFACE TREATMENT (PREVENTATIVE MAINTENANCE) SLIGHTLY BEYOND SAWCUT JOINT TO SEAL JOINT.



TRANSITION DETAIL  
SECTION A-A



SIDEROAD DETAIL

*EOP ELEVATION CHANGE	**TOTAL TRANSITION LENGTH
3/4"	3.5'
1"	5'
1-1/2"	7.5'
2"	10'
2-1/2"	12.5'
3"	15'
3-1/2"	17.5'
4"	20'
4-1/2"	22.5'
5"	25'
5-1/2"	27.5'
6"	30'

NOTE:  
WHERE THE HMA TRANSITION IS MATCHING INTO AN EXISTING HMA SIDE ROAD SURFACE, A MILLED BUTT JOINT SHALL BE CONSTRUCTED WITHIN THE LIMITS OF THE TOTAL TRANSITION LENGTH ON THE LOCAL ROUTE.

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	PLOT DATE = 11/23/2015		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BUTT-JOINT AND SIDEROAD DETAILS**

SCALE: \_\_\_\_\_ SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR. DIST 8 RESURFACING 2016-1		MADISON	9	9
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT			CONTRACT NO. 76H91	