

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	(6-2,6-23)RS-4	MADISON	24	1
		ILLINOIS	CONTRACT NO. 76P28	

FOR INDEX OF SHEETS SEE SHEET NO. 2

PROPOSED
HIGHWAY PLANS

FAP ROUTE 582 (IL 111/L 111A)
SECTION (6-2,6-23)RS-4
PROJECT STP-T95Y(303)
RESURFACING - DESIGNED OVERLAY
MADISON COUNTY

TRAFFIC DATA

FUNCTIONAL CLASSIFICATION: MINOR ARTERIAL

IL 111 FROM 0.1 MI. S. OF HORSESHOE RD. TO ST. CLAIR CO. LINE:

MI. STA. 2.380 TO MI. STA. 3.853
2019 ADT (ACTUAL): 6750
2022 ADT (ESTIMATED): 6900
SU: 7.4%
MU: 6.3%

MI. STA. 0.286 TO MI. STA. 2.380
2019 ADT (ACTUAL): 5300
2022 ADT (ESTIMATED): 5400
SU: 6.1%
MU: 8.5%

MI. STA. 0.000 TO MI. STA. 0.286
2019 ADT (ACTUAL): 4850
2022 ADT (ESTIMATED): 4950
SU: 5.2%
MU: 8.2%

SN 060-0127
MI. STA. 0.474 TO 0.534
(BRIDGE OMISSION - NB IL 111)

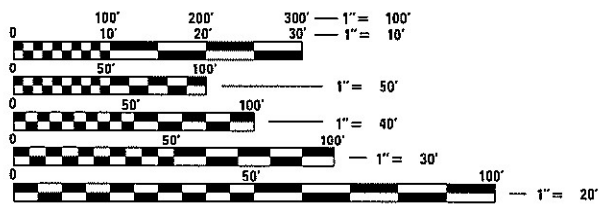
SN 060-0244
MI. STA. 0.475 TO 0.544
(BRIDGE OMISSION - SB IL 111)

SN 060-0125
MI. STA. 1.323 TO 1.392
(BRIDGE OMISSION)

MI. STA. 1.043 TO 1.047
(RAILROAD OMISSION)

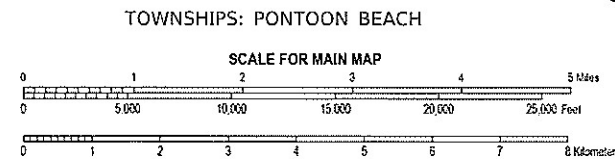
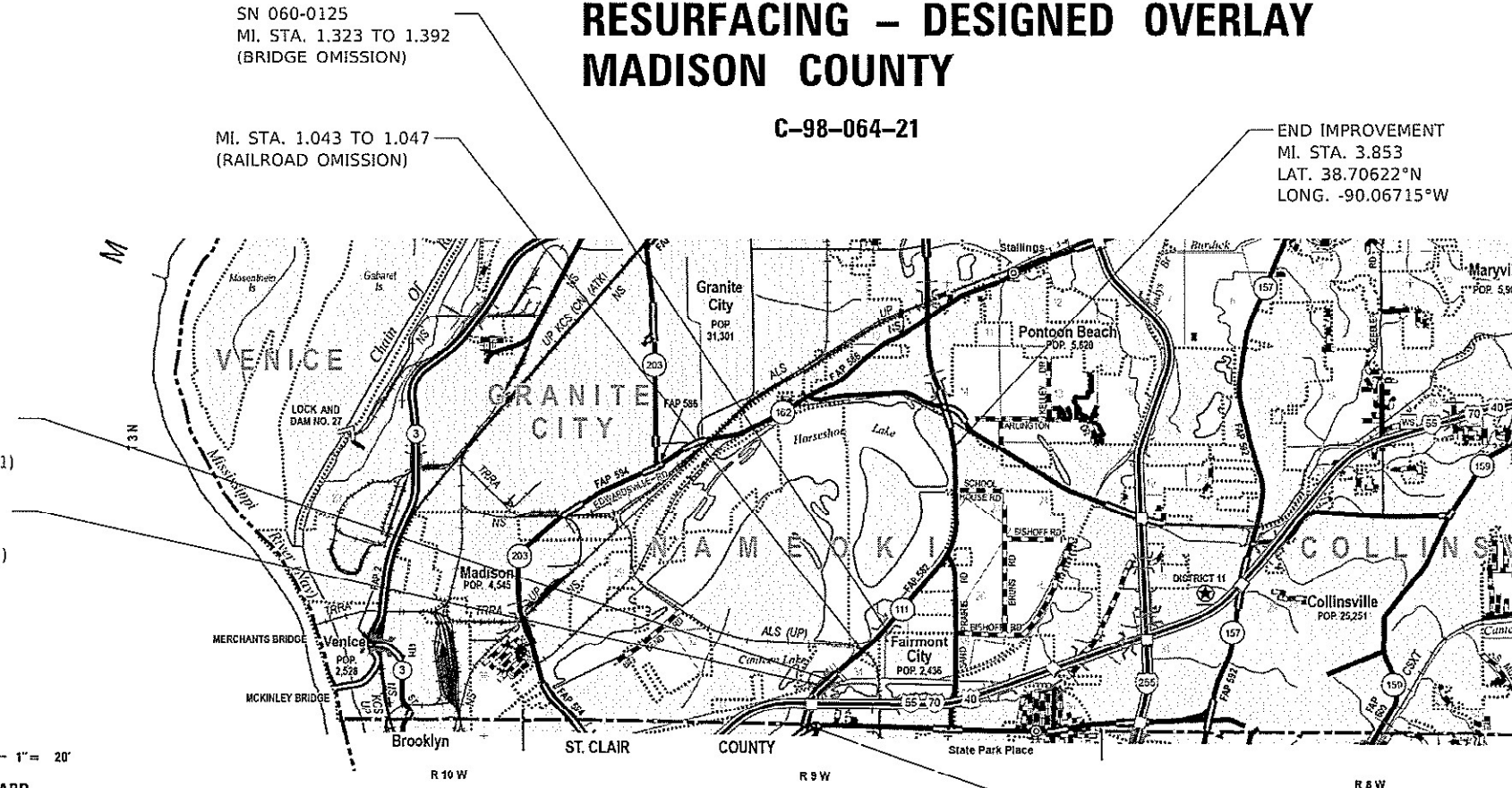
C-98-064-21

END IMPROVEMENT
MI. STA. 3.853
LAT. 38.70622°N
LONG. -90.06715°W



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



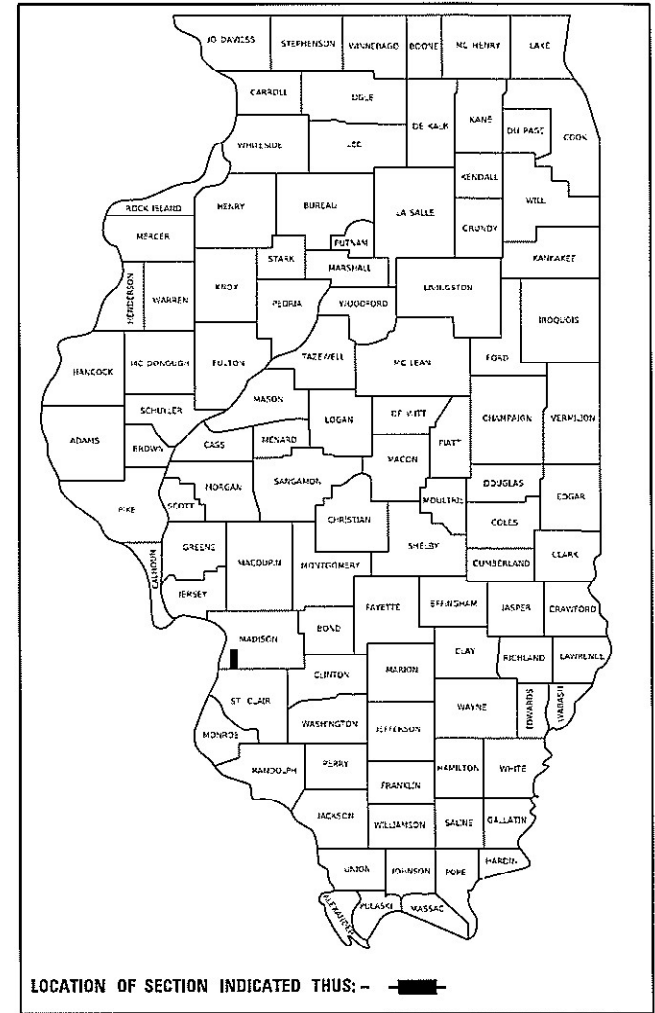
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MI. STA. 0.000
LAT. 38.65894°N
LONG. -90.09414°W

PROJECT ENGINEER: BILLIE OWEN (618-346-3209)
PROJECT MANAGER: PHIL FREIMUTH (618-346-3194)

CONTRACT NO. 76P28

GROSS LENGTH = 20343.84 FT. = 3.853 MILE
NET LENGTH = 19513.84 FT. = 3.696 MILE

D-98-034-021



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED April 29, 2021
Keith Roberts
REGIONAL ENGINEER

June 25, 2021
Scott A. Clark
ENGINEER OF DESIGN AND ENVIRONMENT

June 25, 2021
Jerry J. Quinn
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

INDEX OF SHEETS

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- 2 INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES, MIXTURE REQUIREMENTS & COMMITMENTS
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- 19-22 MEDIAN IMPROVEMENTS
- 23 RESURFACING DETAILS
- 24 DETECTOR LOOP REPLACEMENT PLAN

HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
420001-09	PAVEMENT JOINTS
442201-03	CLASS C & D PATCHES
606001-07	CONCRETE CURB TYPE B AND COMBINATION CURB AND GUTTER
606301-04	PC CONCRETE ISLANDS AND MEDIANS
604001-05	FRAME AND LIDS TYPE 1
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5m) AWAY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥45 MPH
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
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥45 MPH
701336-07	LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES, FOR SPEEDS ≥45 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
728001-01	TELESCOPING STEEL SIGN SUPPORT
731001-01	BASE FOR TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782001-01	CURB REFLECTORS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUTS FOR DETECTION LOOPS
642006-01	SHOULDER RUMBLE STRIPS, 8"

MIXTURE REQUIREMENTS

MIXTURE USE	SURFACE	BINDER	BINDER (widening)	PATCHING
AC/PG	PG 64-22	PG 64-22	PG 64-22	PG 64-22
RAP % (MAX)	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION
DESIGN AIR VOIDS	4.0% @ Ndes=90	4.0% @ Ndes=90	4.0% @ Ndes=90	4.0% @ Ndes=90
MIX COMPOSITION (Gradation)	IL 9.5	IL 19.0	IL 19.0	IL 19.0
FRICTION AGG	MIXTURE "D"	MIXTURE "B"	MIXTURE "B"	MIXTURE "B"
QUALITY MGMT PROGRAM	QCP	QCP	QC/QA	QC/QA

MIXTURE USE	SHOULDERS (lower)	SHOULDERS (surface)	INCIDENTAL (surface)	INCIDENTAL (lower)
AC/PG	PG 64-22	PG 64-22	PG 64-22	PG 64-22
RAP % (MAX)	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION
DESIGN AIR VOIDS	4.0% @ Ndes=30	4.0% @ Ndes=30	4.0% @ Ndes=90	4.0% @ Ndes=90
MIX COMPOSITION (Gradation)	IL 19.0L	IL 9.5L	IL 9.5	IL 19.0
FRICTION AGG			MIXTURE "D"	MIXTURE "B"
QUALITY MGMT PROGRAM	QC/QA	QC/QA	QC/QA	QC/QA

PLAN QUANTITIES FOR HOT-MIX ASPHALT ITEMS ARE CALCULATED USING A UNIT WEIGHT OF 112 lb/sq yd/in (59.8 kg/sq m/25mm THICKNESS).

COMMITMENTS

ANY RE-SEEDING REQUIRED FOR THE PROJECT SHALL INCLUDE A CLASS 4 AND 5 B WETLAND GRASS AND FORB MIX WHERE THE USE OF SUCH SEEDING IS APPROPRIATE, AS OUTLINED IN IDOT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

GENERAL NOTES:

① AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

	AERIAL	BURIED
AMEREN ILLINOIS (GAS & ELECTRIC)	x	x
AT&T ILLINOIS (COMMUNICATIONS)	x	x
AT&T CORPORATION (COMMUNICATIONS)	x	x
BUCKEYE PARTNERS L.P.--WOOD RIVER PIPELINE (PIPELINE)		x
CHARTER COMMUNICATIONS, INC. (CABLE TV)	x	x
ENABLE MIDSTREAM PARTNERS (PIPELINE)		x
ILLINOIS AMERICAN WATER COMPANY (WATER)		x
MEDIACOM (CABLE TV)		x
METRO EAST SANITARY DISTRICT (SANITARY SEWER)		x
SOUTHWESTERN ELECTRIC COOPERATIVE, INC. (ELECTRIC)	x	x
METRO COMMUNICATIONS COMPANY, INC. (COMMUNICATIONS)	x	x

② NO SURVEY WAS PERFORMED FOR THIS PROJECT. THE PLANS WERE CREATED USING USING MICROFILM AND FIELD MEASUREMENTS.

③ NO OVERNIGHT LANE CLOSURES WILL BE PERMITTED.

④ THE PROPOSED PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKINGS SHALL MATCH THE LOCATIONS OF THE EXISTING PAVEMENT MARKINGS, AS DIRECTED BY THE ENGINEER.

⑤ THE CONTRACTOR SHALL REPLACE THE MATERIAL REMOVED FOR THE CONSTRUCTION OF THE 5FT HMA BASE COURSE WIDENING AND THE 4FT HMA SHOULDER WITH THE FIRST LIFT OF THE HMA BASE COURSE WIDENING OR HMA SHOULDER WITHIN THE SAME DAY TO PREVENT SEDIMENT EROSION.

⑥ IF THE PROPOSED SURFACE REMOVAL ON THIS PROJECT PRODUCES A MILLED EDGE NEAR THE CENTERLINE GREATER THAN 1.5 INCHES OR IF THE PROPOSED RESURFACING RESULTS IN AN ELEVATION DIFFERENCE GREATER THAN 2 INCHES NEAR THE CENTERLINE BETWEEN ADJACENT OPEN LANES OF TRAFFICE, ONE OF THE FOLLOWING SHALL APPLY:

- THE ABOVE CONTRACTOR SHALL ORGANIZE THE WORK TO AVOID THE ELEVATION DIFFERENCES MENTIONED ABOVE.
- THE CONTRACTOR SHALL CONSTRUCT A TEMPORARY HOT MIX ASPHALT WEDGE ALONG THE CENTERLINE TO AVOID THE ELEVATION DIFFERENCES MENTIONED ABOVE.
- THE CONTRACTOR SHALL CONSTRUCT A MILLED SLOPE EDGE (MINIMUM 1:3) ALONG THE CENTERLINE TO AVOID THE ELEVATION DIFFERENCES MENTIONED ABOVE.

THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST PER SQUARE YARD FOR HOT-MIX ASPHALT SURFACE REMOVAL OF THE DEPTH SPECIFIED OR IN THE COST PER TON FOR THE HOT-MIX ASPHALT RESURFACING MIXES SPECIFIED IN THE PLANS.

⑦ ONLY SHORT TERM PAVEMENT MARKING REMOVAL FROM THE FINAL SURFACE SHALL BE PAID FOR AS "SHORT TERM PAVEMENT MARKING REMOVAL."

⑧ 2 CHANGEABLE MESSAGE BOARDS SHALL BE REQUIRED FOR THIS PROJECT. THEY SHALL BE PLACED 2 WEEKS PRIOR TO ANY LANE CLOSURE AND SHALL REMAIN UP FOR 2 WEEKS AFTER WORK BEGINS. ONE CHANGEABLE MESSAGE BOARD SHALL BE PLACED AT EACH END OF THE PROJECT OR AT THE DIRECTION OF THE ENGINEER.

⑨ THE CONTRACTOR SHALL PROVIDE POSITIVE AND ADEQUATE DRAINAGE AT ALL LOCATIONS AT ALL TIMES. THIS MAY INCLUDE, BUT IS NOT LIMITED TO, REPLACEMENT OR RECONSTRUCTION OF EXISTING DRAINAGE STRUCTURES THAT HAVE BEEN DAMAGED OR REMOVED, REGRADING, PLUGGING ABANDONED PIPES, OR OTHER ACTIVITIES REQUIRED BY THE ENGINEER.

⑩ MATERIAL TRANSFER DEVICE CAN OPERATE IN AN UNLOADED CONDITION LIMITED TO AN EMPTY GROSS WEIGHT OF LESS THAN OR EQUAL TO 40 TONS ON SN 060-0125, SN 060-0127, & SN 060-0244. SEE LOCATION MAP FOR THE STRUCTURES' LOCATION.

⑪ THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION-RELATED SKILLS, E.G., MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSEWORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL-TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS. CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.

⑫ IF ANY STATE OWNED UNDERGROUND CABLE NEEDS LOCATING, IT WILL BE PAID FOR BY SECTION 109.04.

REV. - MS

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DATE: 6/4/2021

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PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -			582	(6-2.6-23)RS-4	MADISON	24	2	
PLOT DATE = 6/4/2021	CHECKED -	REVISED +			CONTRACT NO. 76P28					
	DATE -	REVISED +			ILLINOIS / FED. AID PROJECT					

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				80% FED 20% STATE	
				ROADWAY 0005 URBAN	
20200600	EXCAVATING AND GRADING EXISTING SHOULDER	UNIT	275	275	
35300400	PORTLAND CEMENT CONCRETE BASE COURSE 9"	SQ YD	74	74	
35600716	HOT-MIX ASPHALT BASE COURSE WIDENING, 10"	SQ YD	14568	14568	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	67601	67601	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	356	356	
40600990	TEMPORARY RAMP	SQ YD	1589	1589	
40603090	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	TON	8697	8697	
40604064	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N90	TON	7022	7022	
40800029	BITUMINOUS MATERIALS (TACK COAT)	POUND	160	160	
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	53	53	
44000100	PAVEMENT REMOVAL	SQ YD	2914	2914	
44000164	HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4"	SQ YD	82119	82119	
44201803	CLASS D PATCHES, TYPE II, 13 INCH	SQ YD	1019	1019	
44201807	CLASS D PATCHES, TYPE III, 13 INCH	SQ YD	20	20	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				80% FED 20% STATE	
				ROADWAY 0005 URBAN	
44201809	CLASS D PATCHES, TYPE IV, 13 INCH	SQ YD	1227	1227	
44213198	TIE BARS 1/2"	EACH	136	136	
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	1205	1205	
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	882	882	
48203100	HOT-MIX ASPHALT SHOULDERS	TON	2754	2754	
54390180	INSERTION CULVERT LINER 24"	FOOT	20	20	
60260300	INLETS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, OPEN LID	EACH	1	1	
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	1	1	
60609200	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.12	FOOT	194.5	194.5	
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	486	486	
60622400	CONCRETE MEDIAN, TYPE SM-6.06	SQ FT	444	444	
60622800	CONCRETE MEDIAN, TYPE SM-6.12	SQ FT	32	32	
64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	44040	44040	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6	

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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	(6-2,6-23)RS-4	MADISON	24	3
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76P28	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FED 20% STATE	
				CONSTR. CODE	
				ROADWAY	
				0005	URBAN
67100100	MOBILIZATION	L SUM	1		1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1		1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1		1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1		1
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	L SUM	1		1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1		1
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1		1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1		1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	14		14
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	56		56
70300100	SHORT TERM PAVEMENT MARKING	FOOT	14859		14859
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	1661		1661
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	328		328
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	69148		69148

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FED 20% STATE	
				CONSTR. CODE	
				ROADWAY	
				0005	URBAN
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	611		611
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	114		114
* 72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	1		1
* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	10		10
* 73100100	BASE FOR TELESCOPING STEEL SIGN SUPPORT	EACH	1		1
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	328		328
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	69148		69148
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	611		611
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	114		114
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	389		389
* 78200020	CURB REFLECTORS	EACH	22		22
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	389		389
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	573		573
X0326662	CURED-IN-PLACE PIPE LINER, 24"	FOOT	130		130

* SPECIALTY ITEM

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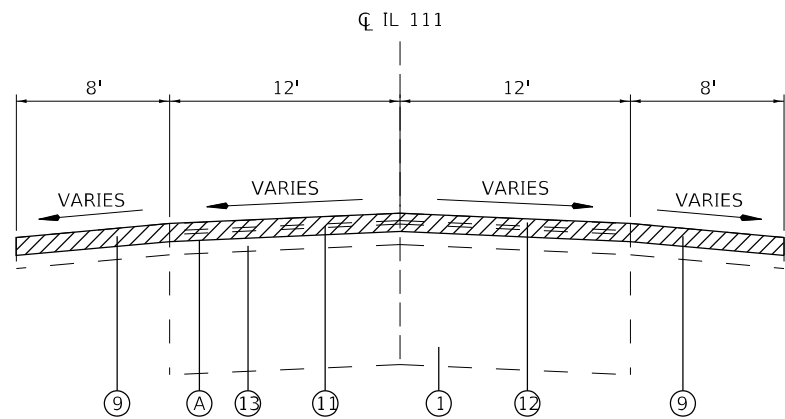
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

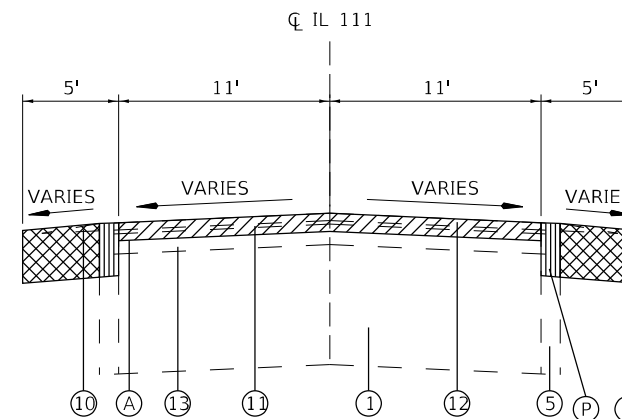
SUMMARY OF QUANTITIES

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

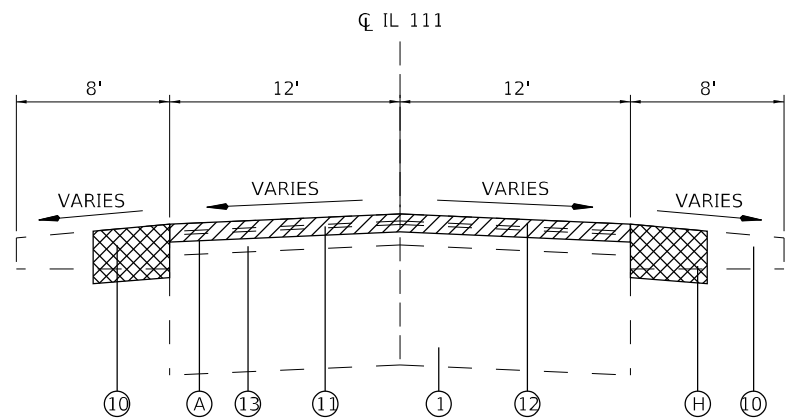
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	(6-2,6-23)RS-4	MADISON	24	4
CONTRACT NO. 76P28			ILLINOIS FED. AID PROJECT	



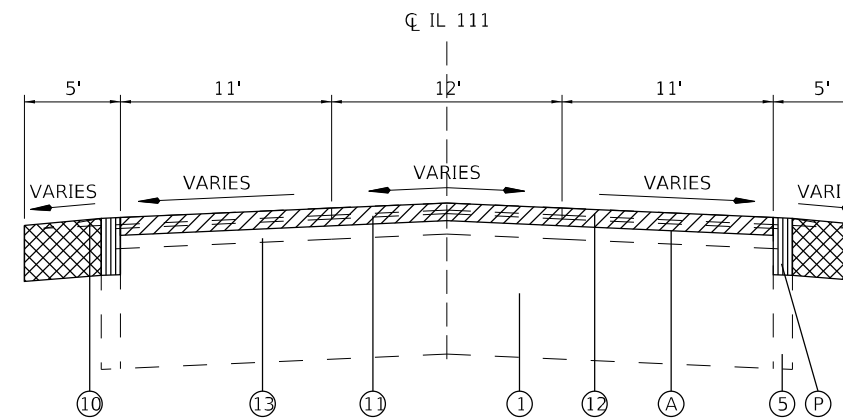
EXISTING TYPICAL SECTION
MI. STA. 0.715 TO MI. STA. 0.855



EXISTING TYPICAL SECTION
MI. STA. 1.047 TO MI. STA. 1.311
MI. STA. 1.311 TO MI. STA. 1.380 (BRIDGE OMISSION: 060-0125)
MI. STA. 1.380 TO MI. STA. 2.265
MI. STA. 2.586 TO MI. STA. 3.653



EXISTING TYPICAL SECTION
MI. STA. 0.855 TO MI. STA. 1.043
MI. STA. 1.043 TO MI. STA. 1.047 (RAILROAD OMISSION)



EXISTING TYPICAL SECTION
MI. STA. 2.265 TO MI. STA. 2.586

LEGEND

- ① EXISTING 9"-7"-9" PAVEMENT
- ② EXISTING STABILIZED SUB-BASE
- ③ EXISTING GRANULAR SUB-BASE
- ④ EXISTING PCC BASE COURSE
- ⑤ EXISTING WIDENING, 1'
- ⑥ EXISTING CCC&G, TYPE M-6.12
- ⑦ EXISTING CONCRETE MEDIAN SURFACE 4"
- ⑧ EXISTING GRASS MEDIAN
- ⑨ EXISTING BITUMINOUS SHOULDER
- ⑩ EXISTING AGGREGATE SHOULDERS
- ⑪ EXISTING LEVEL BINDER 3/4"
- ⑫ EXISTING HMA SURFACE COURSE 1-1/2"
- ⑬ EXISTING RESURFACING 4-1/4" +/-
- ⑭ EXISTING CORRUGATED MEDIAN, 11-3/4"
- (A) PROPOSED HMA SURFACE REMOVAL 3-3/4"
- (B) PROPOSED HMA BINDER COURSE, IL-19.0, N90, 2-1/4"
- (C) PROPOSED HMA SURFACE COURSE, IL-9.5, MIX "D", N90, 1-1/2"
- (D) PROPOSED HMA SHOULDER, 3-3/4"
- (E) PROPOSED HMA BASE COURSE WIDENING, 11" (INCLUDES 2 APPLICATIONS OF TACK COAT)
- (F) PROPOSED HMA BITUMINOUS MATERIALS (TACK COAT)
- (G) PROPOSED LONGITUDINAL JOINT SEALANT (APPLIED BETWEEN BINDER AND SURFACE ONLY)
- (H) PROPOSED EXCAVATING & GRADING EXISTING SHOULDERS
- (I) PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- (J) PROPOSED MEDIAN REMOVAL, SPECIAL
- (K) PROPOSED PORTLAND CEMENT CONCRETE BASE 9"
- (L) PROPOSED CONCRETE MEDIAN SURFACE, 4 INCH
- (M) PROPOSED THERMOPLASTIC PAVEMENT MARKING
- (N) PROPOSED SHOULDER RUMBLE STRIP, 8 INCH
- (O) PROPOSED HOT-MIX ASPHALT SHOULDERS, 8"
- (P) PROPOSED PAVEMENT REMOVAL
- (Q) PROPOSED COMBINATION CURB AND GUTTER, TYPE M-6.12

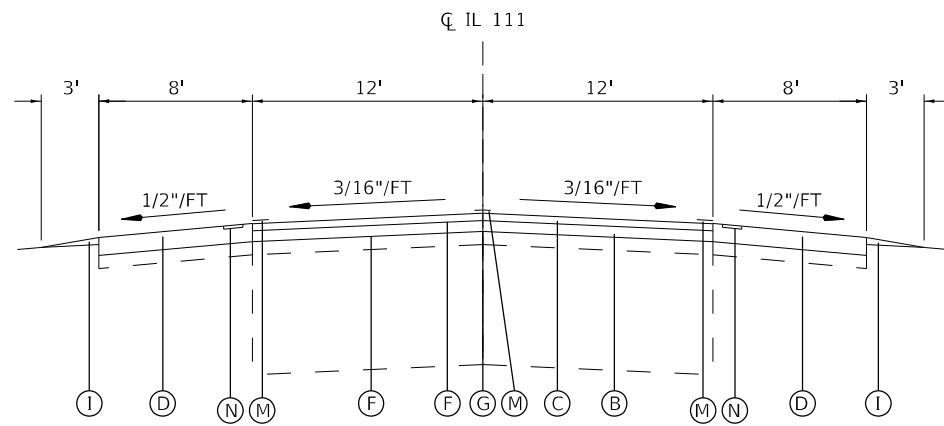
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USER NAME = freimuchod	DESIGNED -	REVISED -
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	DATE -	REVISED -

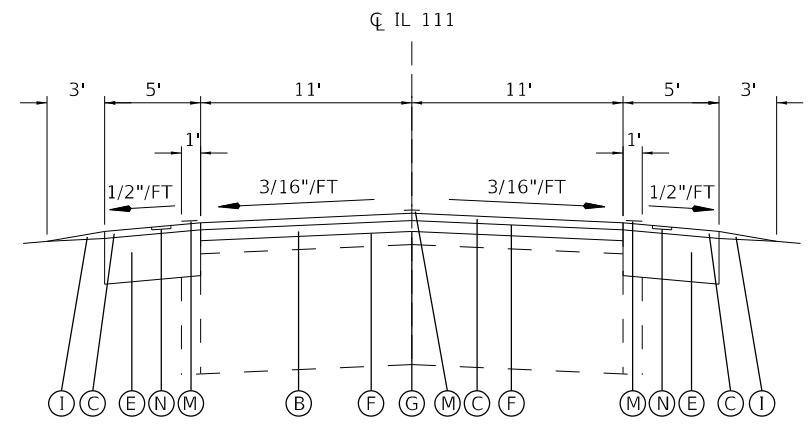
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS			
SCALE:	SHEET 2	OF 6 SHEETS	STA. TO STA.

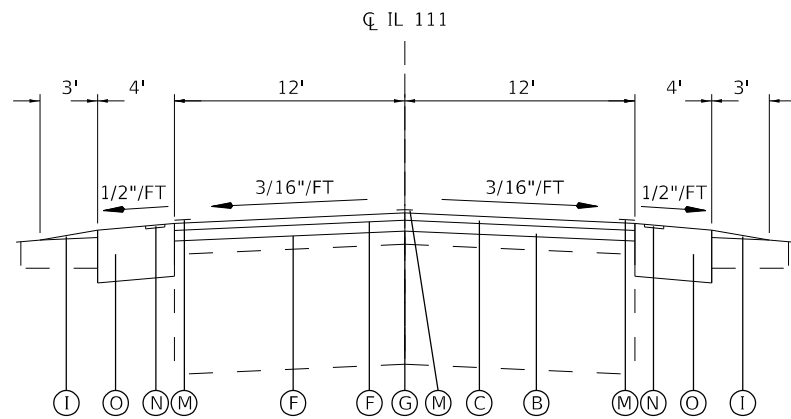
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	(6-2.6-23)RS-4	MADISON	24	7
CONTRACT NO. 76P28			ILLINOIS FED. AID PROJECT	



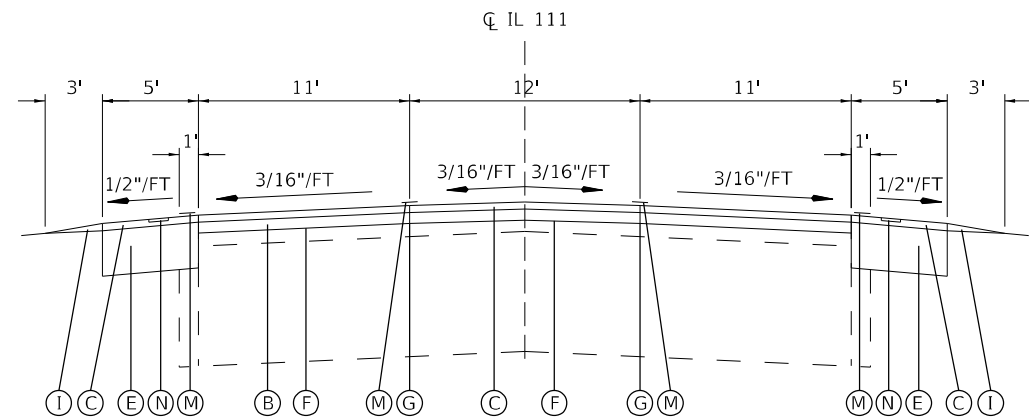
PROPOSED TYPICAL SECTION
MI. STA. 0.715 TO MI. STA. 0.855



PROPOSED TYPICAL SECTION
MI. STA. 1.047 TO MI. STA. 1.311
MI. STA. 1.311 TO MI. STA. 1.380 (BRIDGE OMISSION: 060-0125)
MI. STA. 1.380 TO MI. STA. 2.265
MI. STA. 2.586 TO MI. STA. 3.653



PROPOSED TYPICAL SECTION
MI. STA. 0.855 TO MI. STA. 1.043
MI. STA. 1.043 TO MI. STA. 1.047 (RAILROAD OMISSION)



PROPOSED TYPICAL SECTION
MI. STA. 2.265 TO MI. STA. 2.586

LEGEND

- ① EXISTING 9"-7"-9" PAVEMENT
- ② EXISTING STABILIZED SUB-BASE
- ③ EXISTING GRANULAR SUB-BASE
- ④ EXISTING PCC BASE COURSE
- ⑤ EXISTING WIDENING, 1'
- ⑥ EXISTING CCC&G, TYPE M-6.12
- ⑦ EXISTING CONCRETE MEDIAN SURFACE 4"
- ⑧ EXISTING GRASS MEDIAN
- ⑨ EXISTING BITUMINOUS SHOULDER
- ⑩ EXISTING AGGREGATE SHOULDERS
- ⑪ EXISTING LEVEL BINDER 3/4"
- ⑫ EXISTING HMA SURFACE COURSE 1-1/2"
- ⑬ EXISTING RESURFACING 4-1/4" +/-
- ⑭ EXISTING CORRUGATED MEDIAN, 11-3/4"
- (A) PROPOSED HMA SURFACE REMOVAL 3-3/4"
- (B) PROPOSED HMA BINDER COURSE, IL-19.0, N90, 2-1/4"
- (C) PROPOSED HMA SURFACE COURSE, IL-9.5, MIX "D", N90, 1-1/2"
- (D) PROPOSED HMA SHOULDER, 3-3/4"
- (E) PROPOSED HMA BASE COURSE WIDENING, 11" (INCLUDES 2 APPLICATIONS OF TACK COAT)
- (F) PROPOSED HMA BITUMINOUS MATERIALS (TACK COAT)
- (G) PROPOSED LONGITUDINAL JOINT SEALANT (APPLIED BETWEEN BINDER AND SURFACE ONLY)
- (H) PROPOSED EXCAVATING & GRADING EXISTING SHOULDERS
- (I) PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- (J) PROPOSED MEDIAN REMOVAL, SPECIAL
- (K) PROPOSED PORTLAND CEMENT CONCRETE BASE 9"
- (L) PROPOSED CONCRETE MEDIAN SURFACE, 4 INCH
- (M) PROPOSED THERMOPLASTIC PAVEMENT MARKING
- (N) PROPOSED SHOULDER RUMBLE STRIP, 8 INCH
- (O) PROPOSED HOT-MIX ASPHALT SHOULDERS, 8"
- (P) PROPOSED PAVEMENT REMOVAL
- (Q) PROPOSED COMBINATION CURB AND GUTTER, TYPE M-6.12

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PLOT DATE = 4/30/2021	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS			
SCALE:	SHEET 5	OF 6 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	(6-2.6-23)RS-4	MADISON	24	10
CONTRACT NO. 76P28				
ILLINOIS FED. AID PROJECT				

SHOULDER PAVING

LOCATION					NB/SB	BITUMINOUS MATERIALS - TACK COAT	EXCAVATING AND GRADING EXISTING SHOULDERS	HMA SHOULDERS, 8"	HMA SHOULDERS	HMA SURFACE REMOVAL, 3.75"	AGGREGATE WEDGE SHOULDER, TYPE B	SHOULDER RUMBLE STRIPS, 8"
STA	WIDTH (FT)	TO	STA	WIDTH (FT)		(POUND)	(UNIT)	(SQ YD)	(TON)	(SQ YD)	(TON)	(FOOT)
0.000	8	TO	0.072	8	SB	456	0	0	142	676	11	760
0.000	4	TO	0.072	4	SB	228	0	0	71	338	11	760
* 0.000	8	TO	0.072	8	NB	270	0	0	84	400	13	450
* 0.000	4	TO	0.072	4	NB	135	0	0	42	200	13	450
0.072	8	TO	0.184	8	SB	355	0	0	110	526	17	591
0.072	4	TO	0.184	4	SB	178	0	0	55	263	17	591
0.072	8	TO	0.184	8	NB	355	0	0	110	526	17	591
0.072	4	TO	0.184	4	NB	178	0	0	55	263	17	591
0.184		TO	0.200		NB/SB	INTERSECTION OMISSION						
0.200	8	TO	0.349	8	SB	472	0	0	147	699	22	787
0.200	8	TO	0.349	8	NB	472	0	0	147	699	22	787
0.349		TO	0.369		NB/SB	INTERSECTION OMISSION						
0.369	8	TO	0.469	8	SB	317	0	0	99	469	15	528
0.369	4	TO	0.469	4	SB	159	0	0	49	235	15	528
0.369	8	TO	0.457	8	NB	279	0	0	87	413	13	465
0.369	4	TO	0.457	4	NB	140	0	0	43	207	13	465
0.469		TO	0.537		NB	BRIDGE OMISSION - SN: 060-0244						
0.459		TO	0.518		SB	BRIDGE OMISSION - SN: 060-0127						
0.537	8	TO	0.715	8	SB	564	0	0	176	836	26	940
0.537	4	TO	0.715	4	SB	282	0	0	88	418	26	940
0.518	8	TO	0.715	8	NB	624	0	0	194	925	29	1040
0.518	4	TO	0.715	4	NB	312	0	0	97	462	29	1040
0.715	8	TO	0.855	8	NB/SB	887	0	0	276	1314	41	1478
0.855	4	TO	1.043	4	NB/SB	596	20	882			55	1985
1.043		TO	1.047		NB/SB	RAILROAD OMISSION						
1.047	5	TO	1.311	5	NB/SB	0	28	0	0	0	78	2788
1.311		TO	1.380		NB/SB	BRIDGE OMISSION - SN: 060-0125						
1.380	5	TO	1.694	5	NB/SB	0	33	0	0	0	92	3316
1.694		TO	1.717		NB	K & B TRUCK REPAIR ENTRANCE						
1.694	5	TO	1.717	5	SB	0	1	0	0	0	3	122
1.717	5	TO	2.352	5	NB/SB	0	67	0	0	0	186	6706
2.352		TO	2.376		NB	SAND PRAIRIE ROAD						
2.352	5	TO	2.376	5	SB	0	1	0	0	0	4	127
2.376	5	TO	2.519	5	NB/SB	0	15	0	0	0	42	1510
2.519		TO	2.557		NB	THEIKLER ROAD						
2.519	5	TO	2.557	5	SB	0	2	0	0	0	6	201
2.557	5	TO	3.061	5	NB/SB	0	53	0	0	0	148	5322
3.061		TO	3.073		NB	SCHOOLHOUSE ROAD						
3.061	5	TO	3.073	5	SB	0	1	0	0	0	2	63
3.073	5	TO	3.373	5	NB/SB	0	32	0	0	0	88	3168
3.373	5	TO	3.384	5	NR	0	1	0	0	0	2	58
3.373		TO	3.384		SB	HORSESHOE PARK						
3.384	5	TO	3.573	5	NB	0	10	0	0	0	28	998
3.384	5	TO	3.569	5	SB	0	10	0	0	0	27	977
3.569	10	TO	3.853	10	SB	0	0	0	350	1666	42	1500
3.573	10	TO	3.677	10	NB	0	0	0	128	610	15	549
3.677		TO	3.689		NB	X2 BUILDERS ENTRANCE						
3.689	10	TO	3.853	10	NB	650	0	0	202	962	24	866
TOTAL :						7907	275	882	2754	13107	1205	44040

* RIGHT TURN LANE FROM COLLINSVILLE ROAD TO NB IL 111

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PLOT DATE = 4/30/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES			
SCALE:	SHEET 2	OF 6	SHEETS
	STA.		TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	(6-2.6-23)RS-4	MADISON	24	13
CONTRACT NO. 76P28			ILLINOIS FED. AID PROJECT	

CLASS D PATCHING 13 INCH SCHEDULE

MILE STATION	NORTHBOUND						SOUTHBOUND					
	LANE	LENGTH	WIDTH	PATCHING, TYPE II (SQ YD)	PATCHING, TYPE III (SQ YD)	PATCHING, TYPE IV (SQ YD)	LANE	LENGTH	WIDTH	PATCHING, TYPE II (SQ YD)	PATCHING, TYPE III (SQ YD)	PATCHING, TYPE IV (SQ YD)
0.253	L	8	12	10.7			L	8	12	10.7		
0.253	R	8	12	10.7			R	8	12	10.7		
0.353							L	15	12		20.0	
0.453	L	8	12	10.7								
0.453	R	8	12	10.7								
1.253	L	8	12	10.7								
1.253	L	100	6			66.7						
1.253	L	8	12	10.7			L	8	12	10.7		
1.253	L	8	12	10.7			L	8	12	10.7		
1.553	L	8	12	10.7			L	8	12	10.7		
1.553	L	8	12	10.7			L	8	12	10.7		
1.553	L	8	12	10.7			L	8	12	10.7		
1.553	L	8	12	10.7			L	8	12	10.7		
1.653	L	8	12	10.7								
1.653	L	8	12	10.7			L	8	12	10.7		
1.653	L	8	12	10.7			L	8	12	10.7		
1.753	L	8	12	10.7			L	8	12	10.7		
1.753	L	8	12	10.7			L	8	12	10.7		
1.853	L	8	12	10.7			L	8	12	10.7		
1.853							L	8	12	10.7		
1.953							L	8	12	10.7		
2.053							L	8	12	10.7		
2.053							L	8	12	10.7		
2.153							L	8	12	10.7		
2.153	L	1560	6			1040.0						
2.253	L	8	12	10.7			L		12			
2.253	L	8	12	10.7			L	8	12	10.7		
2.253	L	8	12	10.7			L	8	12	10.7		
2.253	L	8	12	10.7			L	8	12	10.7		
2.353	L	8	12	10.7			L	8	12	10.7		
2.353							L	8	12	10.7		
2.353	L	8	12	10.7			L	8	12	10.7		
SUBTOTAL :				234.7	0.0	1106.7	SUBTOTAL :			245.4	20.0	0.0

SEE NEXT PAGE FOR PATCHING TOTAL

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PLOT DATE = 4/30/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE: SHEET 4 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	(6-2,6-23)RS-4	MADISON	24	15
CONTRACT NO. 76P28				
ILLINOIS FED. AID PROJECT				

CLASS D PATCHING 13 INCH SCHEDULE

MILE STATION	NORTHBOUND						SOUTHBOUND						
	LANE	LENGTH	WIDTH	PATCHING, TYPE II (SQ YD)	PATCHING, TYPE III (SQ YD)	PATCHING, TYPE IV (SQ YD)	LANE	LENGTH	WIDTH	PATCHING, TYPE II (SQ YD)	PATCHING, TYPE III (SQ YD)	PATCHING, TYPE IV (SQ YD)	
2.353	L	10	12	13.3			L	10	12	13.3			
2.653							L	8	12	10.7			
2.753	L	100	6			66.7	L	8	12	10.7			
2.753	L	8	12	10.7			L	8	12	10.7			
2.753	L	20	12			26.7	L	8	12	10.7			
2.853	L	8	12	10.7									
2.853	L	20	12			26.7	L	8	12	10.7			
2.853	L	8	12	10.7			L	8	12	10.7			
2.953	L	8	12	10.7			L	8	12	10.7			
3.053	L	8	12	10.7									
3.053	L	8	12	10.7			L	8	12	10.7			
3.153							L	8	12	10.7			
3.153	L	8	12	10.7			L	8	12	10.7			
3.153	L	8	12	10.7			L	8	12	10.7			
3.253	L	8	12	10.7			L	8	12	10.7			
3.253	L	8	12	10.7			L	8	12	10.7			
3.353							L	8	12	10.7			
3.453							L	8	12	10.7			
3.453	L	8	12	10.7			L	8	12	10.7			
3.553	L	8	12	10.7			L	8	12	10.7			
3.553	L	8	12	10.7			L	8	12	10.7			
3.553	L	8	12	10.7			L	8	12	10.7			
3.553	L	8	12	10.7			L	8	12	10.7			
3.833	L	8	12	10.7			L	8	12	10.7			
3.833	L	8	12	10.7			L	8	12	10.7			
3.833	L	8	12	10.7			L	8	12	10.7			
3.833	L	8	12	10.7			L	8	12	10.7			
3.853	L	8	12	10.7			L	8	12	10.7			
3.853	R	8	12	10.7			R	8	12	10.7			
SUBTOTAL :				237.4	0.0	120.0	SUBTOTAL :				301.4	0.0	0.0

PATCHING TOTAL :	PAVEMENT PATCHING, TYPE II (SQ YD)	PAVEMENT PATCHING, TYPE III (SQ YD)	PAVEMENT PATCHING, TYPE IV (SQ YD)
	1,019	20	1,227

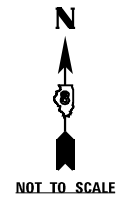
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

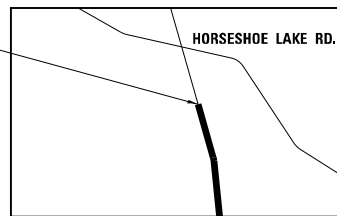
SCHEDULE OF QUANTITIES			
SCALE:	SHEET 5	OF 6 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	(6-2,6-23)RS-4	MADISON	24	16
CONTRACT NO. 76P28			ILLINOIS FED. AID PROJECT	



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LONG. -90.06715°W

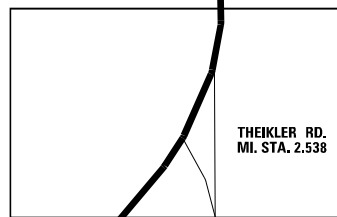
DETAIL A



HORSESHOE PARK
MI. STA. 3.378

SCHOOLHOUSE RD.
MI. STA. 3.067

DETAIL B



THEIKLER RD.
MI. STA. 2.538

IL 111

SAND PRARIE RD.
MI. STA. 2.364

SN 060-0125
MI. STA. 1.311-1.380

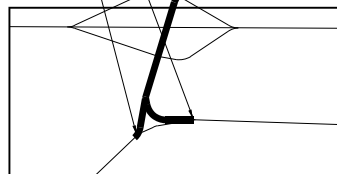
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MI. STA. 0.459-0.518

SN 060-0244 (NB)
MI. STA. 0.469-0.537

MEDIAN IMPROVEMENT
(MI. STA. 0.353)

COLLINSVILLE RD.

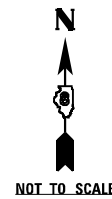
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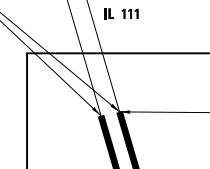
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MI. STA. 0.000
LAT. 38.65894°N
LONG. -90.09414°W

RESURFACING LIMITS

LOCATION MAP



END IMPROVEMENT
MI. STA. 3.853
LAT. 38.70622°N
LONG. -90.06715°W

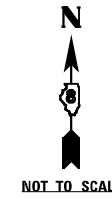


IL 111

MEDIAN IMPROVEMENT
(MI. STA. 3.700)

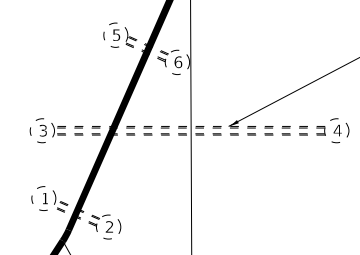
DETAIL A

RESURFACING LIMITS



RESURFACING LIMITS

DETAIL B



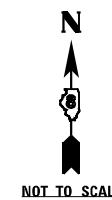
ONLY LINING FIRST 20' STARTING FROM THE WEST END

THEIKLER RD.
MI. STA. 2.538

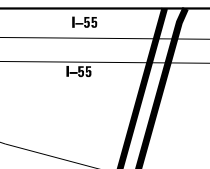
	CULVERT	LOCATION	PIPE SIZE	LENGTH
1	1 --- 2	2.390	24"	70'
2	3 --- 4	2.400	24"	20'
1	5 --- 6	2.450	24"	60'

¹CURED-IN-PLACE PIPE LINER, 24"

²INSERTION CULVERT LINER, 24"



BEGIN IMPROVEMENT
MI. STA. 0.000
LAT. 38.65894°N
LONG. -90.09414°W



IL 111

IL 111

RESURFACING LIMITS

DETAIL C

BEGIN RESURFACING



COLLINSVILLE RD.

RIGHT TURN LANE
MI. STA. 0.000 TO MI. STA. 0.072

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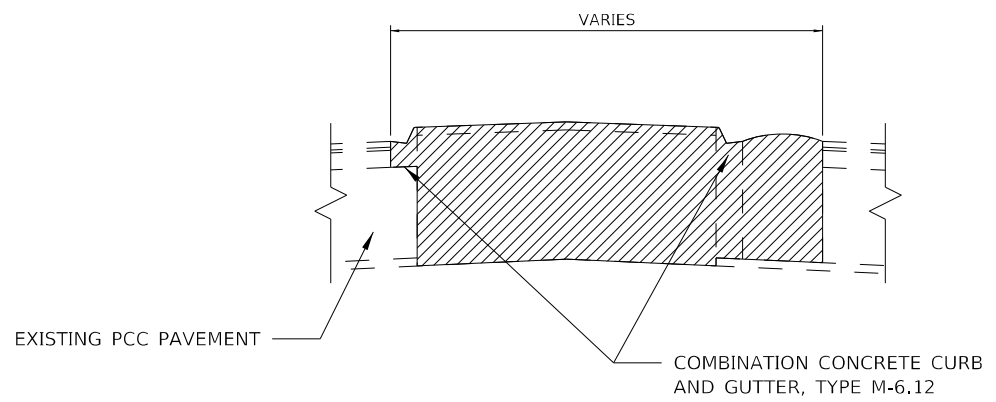
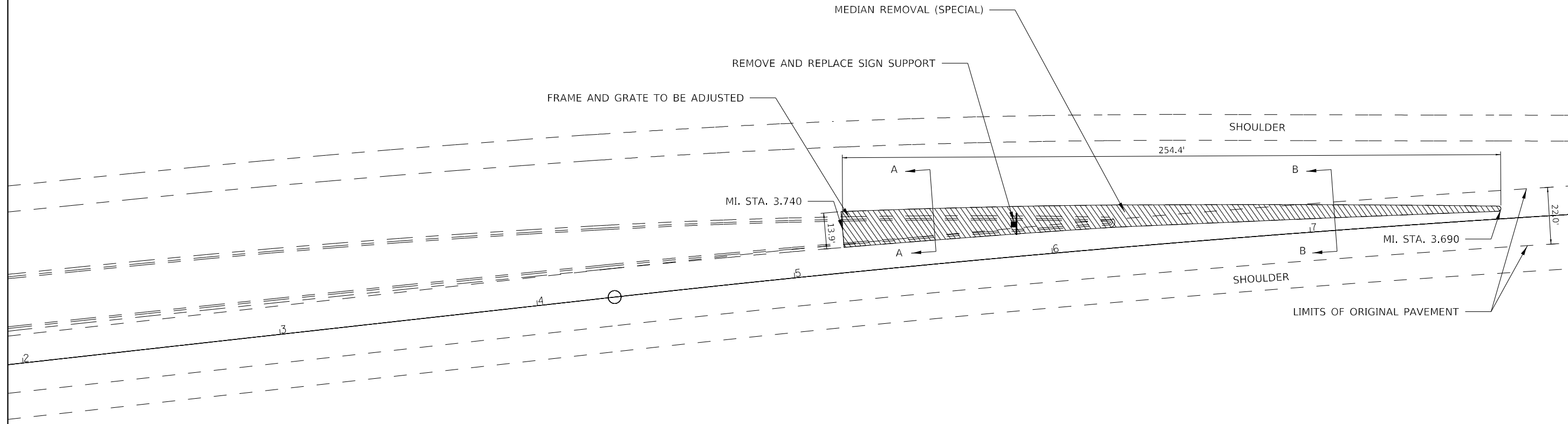
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PLOT DATE = 4/30/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

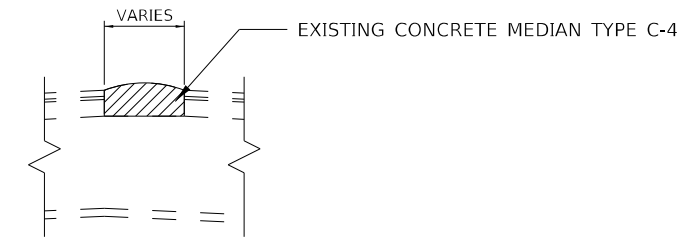
LOCATION MAP

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	(6-2,6-23)RS-4	MADISON	24	18
CONTRACT NO. 76P28				
ILLINOIS FED. AID PROJECT				



SECTION A-A
(NOT TO SCALE)



SECTION B-B
(NOT TO SCALE)

PROPOSED MEDIAN REMOVAL LIMITS



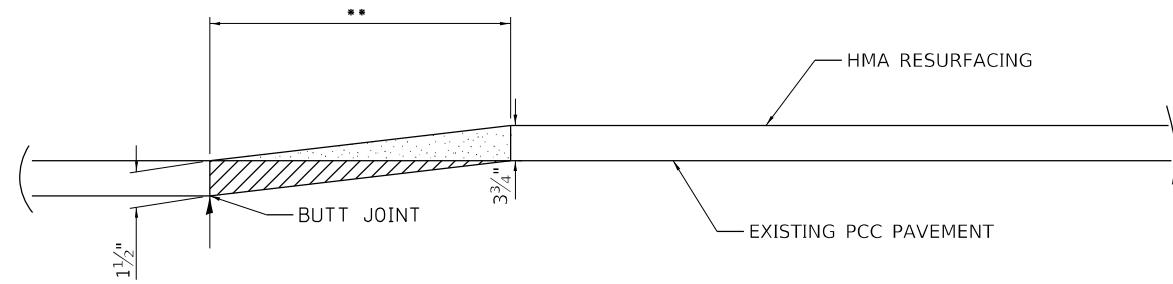
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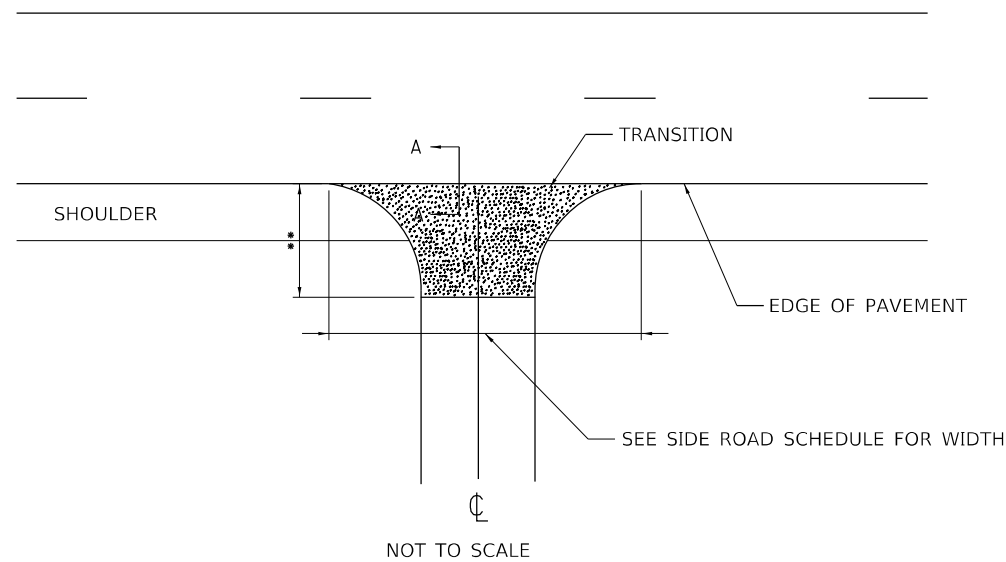
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MEDIAN IMPROVEMENTS (MI. STA. 3.700)	
SCALE: 20	SHEET 2 OF 4 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	(6-2,6-23)RS-4	MADISON	24	20
CONTRACT NO. 76P28				
ILLINOIS FED. AID PROJECT				

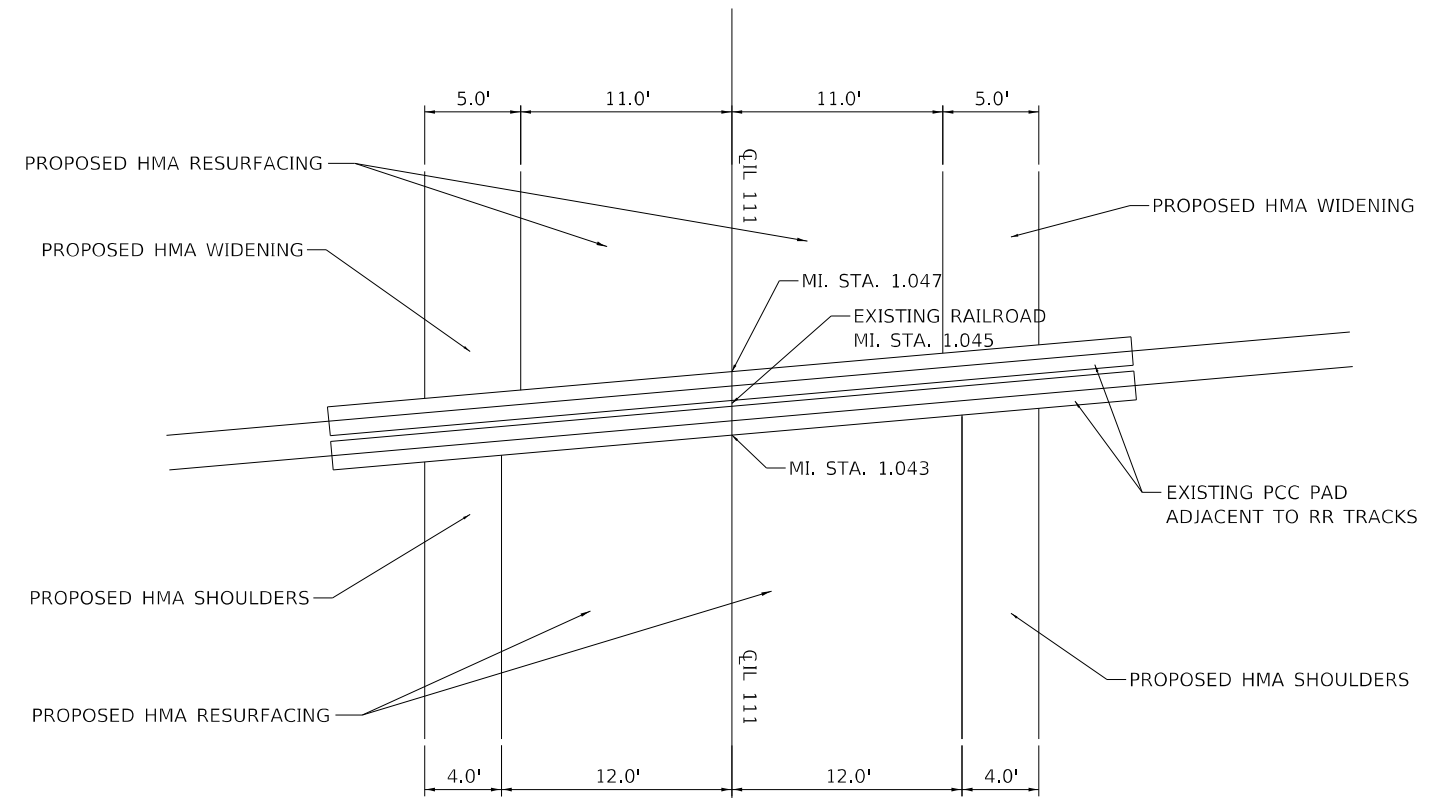


**TRANSITION DETAIL
SECTION A-A
BUTT-JOINT ADDITION**



SIDE ROAD DETAIL

NOTE ** SEE SIDE ROAD SCHEDULE FOR LENGTH



NOT TO SCALE

RAILROAD RESURFACING OMISSION DETAIL

NOTE: THE PROPOSED IMPROVEMENTS SHALL GO UP TO THE EDGE OF THE EXISTING PCC PAD ADJACENT TO THE RAILROAD TRACKS.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

RESURFACING DETAILS

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

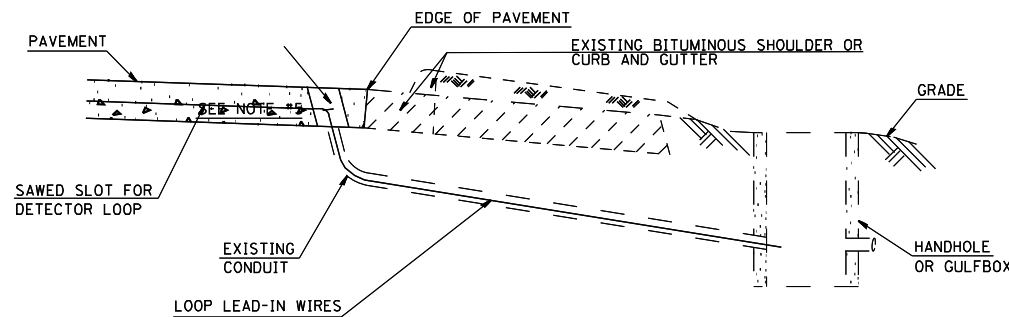
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	(6-2,6-23)RS-4	MADISON	24	23
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76P28	

SCHEDULE OF QUANTITIES			
CODE. NO.	ITEM	UNIT	TOT. QTY.
88600600	DETECTOR LOOP REPLACEMENT	FOOT	573

DETECTOR LOOP 161 REQUIREMENTS AND CALCULATIONS FOR IL 111 & COLLINSVILLE RD.					
LOOP#	PHASE#	LOOP SIZE (FT. X FT.)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (μH)	CALCULATED RESISTANCE OHMS (Ω)
1. SB THRU A CD	3	6' x 50'(Q)	3-6-3	810.42	2.16
2. SB THRU B CD	3	6' x 20'(Q)	3-6-3	357.78	1.19
3. SB RT CD	3	6' x 50'(Q)	3-6-3	821.42	2.37
4. SB CCO 1	3	6' x 6'	6	355.86	2.66
5. SB CCO 2	3	6' x 6'	6	352.12	2.57

THE ABOVE VALUES ARE CALCULATED OF COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN +/- 20% OF THESE VALUES.

Q=QUADRAPOLE



DETAIL A
(NO SCALE)

INSTALLING DETECTOR LOOP WIRES IN EXISTING CONDUIT

1. DRILL OUT PAVEMENT SEALANT AND CLEAN EXISTING CONDUIT.
2. REMOVE EXISTING DETECTOR LOOP WIRES TO HANDHOLE OR GULFBOX.
3. INSTALL NEW LOOP LEAD-IN WIRES IN EXISTING CONDUIT.
4. SPLICE NEW DETECTOR LOOP WIRES TO EXISTING LOOP LEAD-IN CABLE IN HANDHOLE OR GULFBOX.
5. FILL HOLE WITH APPROVED SEALER. PREVENT SEALER FROM ENTERING INTO CONDUIT.
6. LOCATING UNDERGROUND CABLE WILL BE PAID FOR SEPARATELY.

NOT A PAY ITEM. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "DETECTOR LOOP REPLACEMENT"

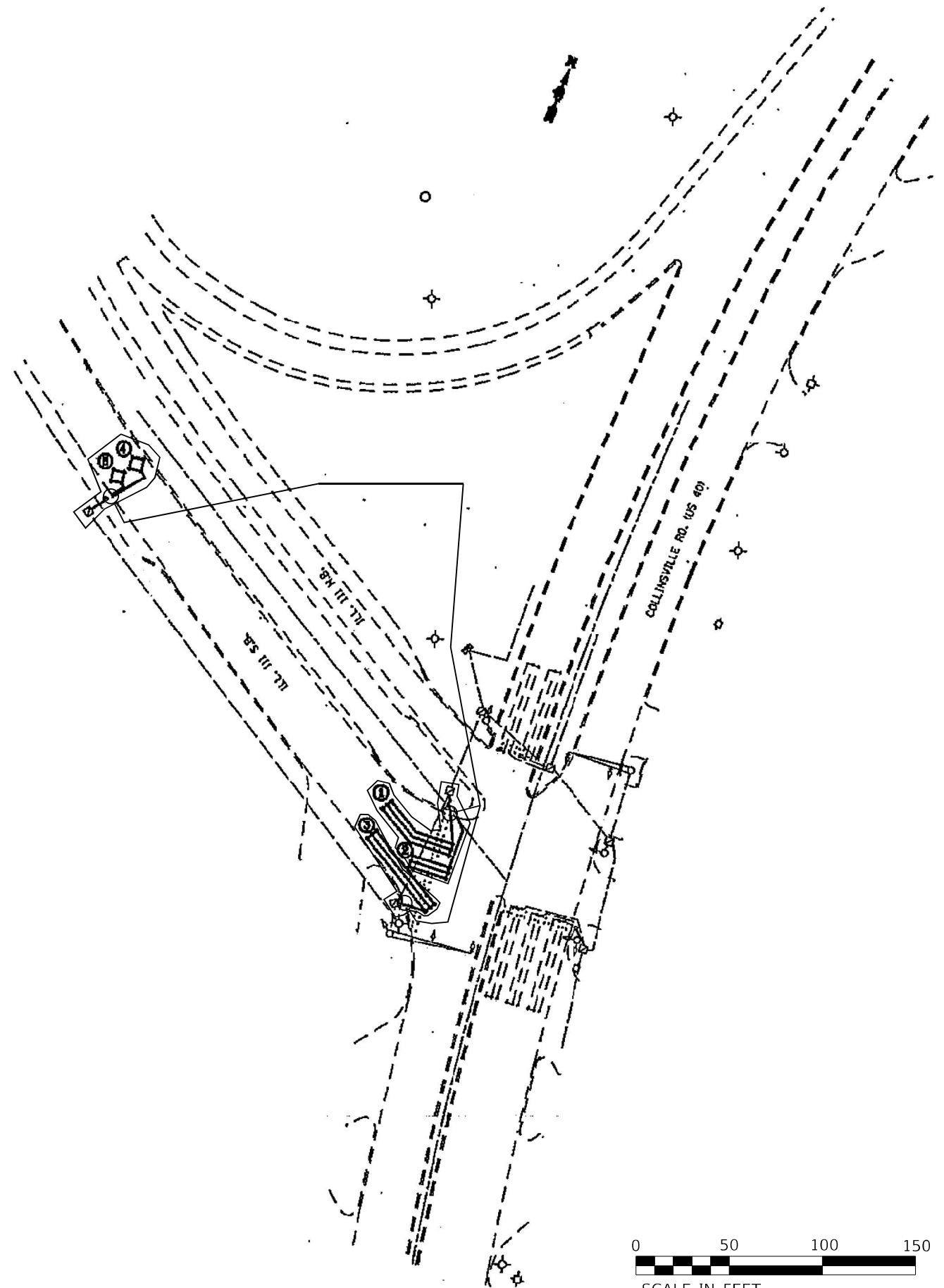
DETECTOR LOOP REPLACEMENT LEGEND

- EX. HANDHOLE
- EX. DETECTOR LOOP
- EX. TRAFFIC SIGNAL CONTROLLER
- EXISTING CONDUIT
- PROPOSED DETECTOR LOOP

NOTES:

SEE TABLE "DETECTOR LOOP REQUIREMENTS AND CALCULATIONS" FOR LOOP SIZE AND CALCULATED NUMBER OF TURNS.

SEE "DETAIL A" FOR INSTALLING DETECTOR LOOP WIRES IN EXISTING CONDUITS.



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETECTOR LOOP REPLACEMENT PLAN			
GENERAL NOTES, SCHEDULE OF QUANTITIES, DETAIL AND LEGEND			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	(6-2,6-23)RS-4	Madison	24	24
			CONTRACT NO. 76P28	
ILLINOIS FED. AID PROJECT				