

FEDERAL AID PROGRAM ENGINEER: CARMEN E. RAMOS, P.E., SCHAUMBURG, IL

11/07/2025 LETTING ITEM 116

FOR INDEX OF SHEETS AND  
LIST OF STATE STANDARDS  
SEE SHEET NO. 2

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
**PLANS FOR PROPOSED  
FEDERAL AID PROJECT**

F.A.U. ROUTE 0041 (RAFFEL ROAD)  
ILLINOIS ROUTE 120 TO WARE ROAD  
SECTION 24-00116-00-RS  
PROJECT NO. YYSM(263)  
CITY OF WOODSTOCK  
MCHENRY COUNTY  
C-91-234-25

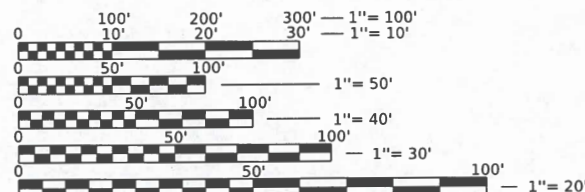
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0041	24-00116-00-RS	MCHENRY	31	1
ILLINOIS CONTRACT NO. 61L94				



LOCATION OF SECTION INDICATED THUS: - ■ -

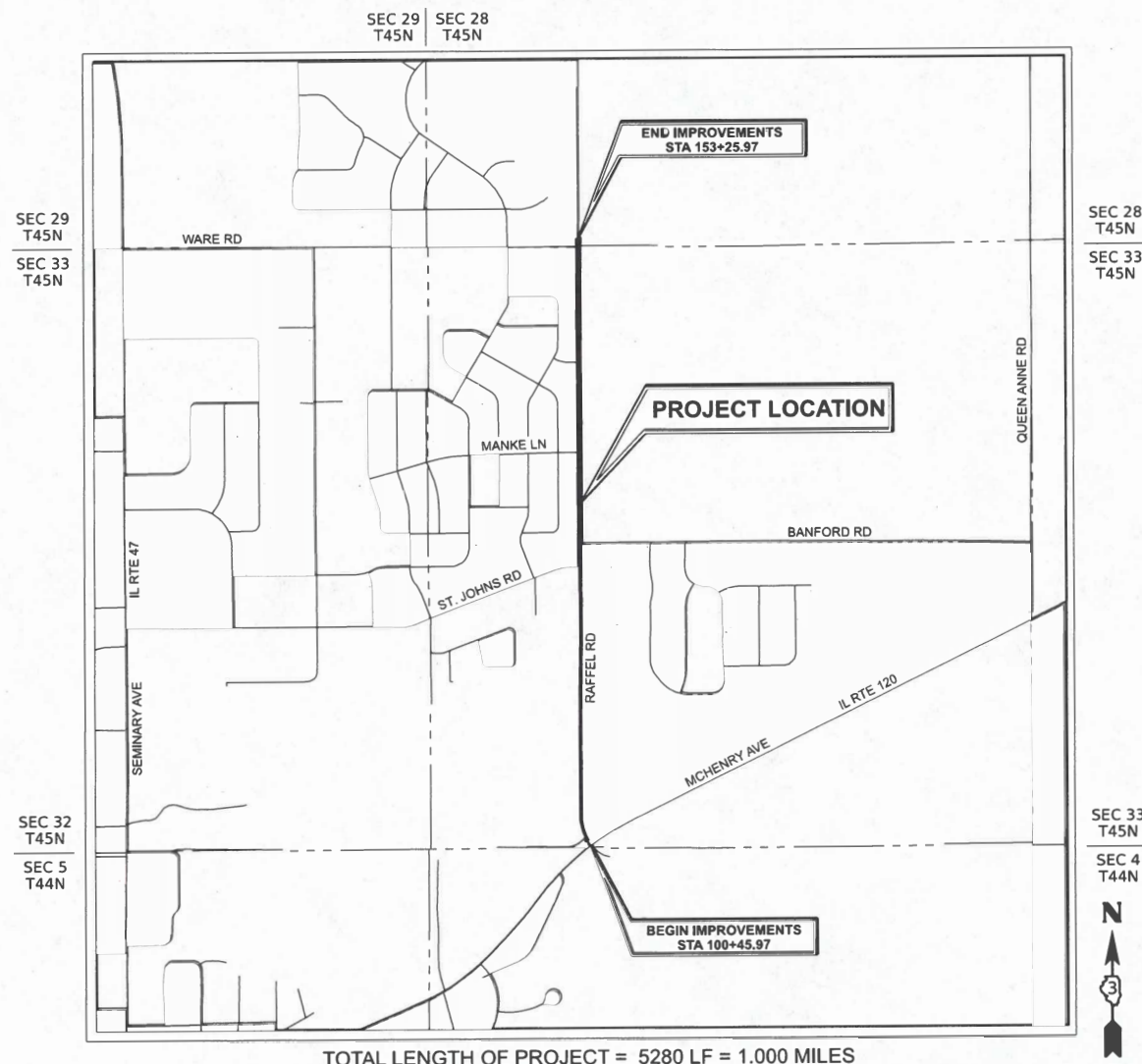
**TRAFFIC DATA**

CURRENT ADT = 3,100 (2021)  
POSTED SPEED LIMIT = 30 MPH (2 LANE CROSS SECTION)  
POSTED SPEED LIMIT = 40 MPH (3 LANE CROSS SECTION)  
CLASSIFICATION = MAJOR COLLECTOR



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**



TOTAL LENGTH OF PROJECT = 5280 LF = 1.000 MILES



*Stephen P. Cieslica*

STEPHEN P. CIESLICA, P.E.  
ILLINOIS REGISTERED PROFESSIONAL ENGINEER  
EXPIRATION DATE 11-30-2025

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	
APPROVED	<i>[Signature]</i> 25 20 25 CHRIS TIEDT, P.E. CITY OF WOODSTOCK CITY ENGINEER
PASSED	<i>[Signature]</i> 25 20 25 DISTRICT 1 ENGINEER OF LOCAL ROADS AND STREETS
RELEASING FOR BID BASED ON LIMITED REVIEW	<i>[Signature]</i> 25 20 25 REGIONAL ENGINEER

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

CONTRACT NO. 61L94

INDEX OF SHEETS

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2	INDEX OF SHEETS, GENERAL NOTES AND LIST OF STANDARDS
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8-10	RESURFACING PLANS
11-15	SIDEWALK GRADING DETAILS
16-18	PAVEMENT MARKING PLANS
19	DETECTOR LOOP REPLACEMENT PLAN
20-31	DISTRICT ONE STANDARD DETAILS

GENERAL NOTES

- ALL REFERENCES TO STANDARD SPECIFICATIONS SHALL BE INTERPRETED TO MEAN THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS" ADOPTED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, JANUARY 1, 2022 AND THE "SUPPLEMENTAL SPECIFICATIONS FOR RECURRING SPECIAL PROVISIONS", ADOPTED JANUARY 1, 2025.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS; THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD)"; THE DETAILS IN THE PLANS AND THE SPECIAL PROVISIONS, AND IDOT STANDARD DRAWINGS AS LISTED IN THE CONTRACT DOCUMENTS.
- THE HMA SURFACE OF ALL MAILBOX TURNOUTS, PRIVATE ENTRANCES, COMMERCIAL ENTRANCES, AND SIDE ROADS SHALL BE MADE NEATLY, IN A WORKMANLIKE MANNER, AND SHALL ACCURATELY CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. IF REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL SAW CUT THE HMA SURFACE TO CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. THIS WORK WILL BE INCLUDED IN THE COST OF THE HMA SURFACE.
- EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
- ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.
- ALL DAMAGE TO DEPARTMENT OWNED UNDERGROUND FACILITIES, CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AND AT NO EXPENSE TO THE DEPARTMENT. THIS SHALL INCLUDE ALL TEMPORARY REPAIRS REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS. SPlicing OF ELECTRIC CABLE WILL NOT BE ALLOWED. ELECTRIC CABLE SHALL BE REPLACED FROM POLE TO POLE OR CONTROLLER.
- THE CONTRACTOR SHALL CONTACT JULIE AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.
- CONTRACTOR SHALL TAKE PRECAUTION BY PRESERVING EXISTING TREES WITHIN THE RIGHT OF WAY. IF ANY DAMAGE OCCURS, TREES SHALL BE REPLACED IN KIND PER ARTICLE 201.07 REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL REQUIREMENTS STATED HEREIN
- GEOTECHNICAL FABRIC FOR GROUND STABILIZATION AND/OR AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAVE BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ABOVE ITEM WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE SSRBC AND IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.
- ANY AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENTS IS TO BE REMOVED AND REPLACED AS DIRECT BY THE ENGINEER AT CONTRACTOR EXPENSE.

LIST OF STATE STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
424001-12	PERPENDICULAR CURB RAMPS
424006-06	DIAGONAL CURB RAMPS FOR SIDEWALKS
424011-05	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424021-07	DEPRESSED CORNER FOR SIDEWALKS
424026-04	ENTRANCE / ALLEY PEDESTRIAN CROSSINGS
442201-03	CLASS C AND D PATCHES
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATION
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATION - DAY ONLY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701502-09	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-10	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
780001-05	TYPICAL PAVEMENT MARKINGS
814001-03	HANDHOLES
886001-01	DETECTOR LOOP INSTALLATIONS

DISTRICT ONE STANDARD DETAILS

BD-08	DETAIL FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING
BD-22	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
BD-24	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
BD-32	BUTT JOINTS AND HMA TAPER DETAILS
BM-20	PRUNING FOR SAFETY AND EQUIPMENT CLEARANCE
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
TC-11	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-16	SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS
TC-22	ARTERIAL ROAD INFORMATION SIGN
TC-26	DRIVEWAY ENTRANCE SIGNING



USER NAME	mdavison	DESIGNED	-	CJS/MJS	REVISED	-
		DRAWN	-	MJD	REVISED	-
PLOT SCALE	2,000' = 1 in.	CHECKED	-	SPC	REVISED	-
PLOT DATE	9/23/2025	DATE	-		REVISED	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, GENERAL NOTES AND LIST OF STANDARDS				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				0041	24-00116-00-R5	MCHENRY	31	2
				CONTRACT NO. 61L94				
SCALE:				ILLINOIS FED. AID PROJECT				

SHEET 1 OF 1 SHEETS STA. TO STA.

SUMMARY OF QUANTITIES				CONSTRUCTION CODE	
				STU (80/20)	STU 80/20)
				ROAD MAINT	SAFETY
				0005	0021
CODE NO	ITEM	UNIT	TOTAL QUANTITY		
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	793	793	
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	1,770	1,770	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	708	708	
25000110	SEEDING, CLASS 1A	ACRE	0.15	0.15	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	14	14	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	14	14	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	14	14	
25100630	EROSION CONTROL BLANKET	SQ YD	708	708	
28000510	INLET FILTERS	EACH	15	15	
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	793	793	
35800100	PREPARATION OF BASE	SQ YD	6,117	6,117	
35800200	AGGREGATE BASE REPAIR	TON	711	711	
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	70	70	
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	27,526	27,526	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	8,582	8,582	
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	5	5	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	180	180	
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	3,429	3,429	
40604060	HOT-MIX ASPHALT SURFACE COURSE,IL-9.5, MIX "D", N50	TON	2,202	2,202	
42400800	DETECTABLE WARNINGS	SQ FT	167		167

\* SPECIALTY ITEM

	USER NAME = m.davison	DESIGNED - CJS/MJS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES				F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 2,000' / in.	DRAWN - MJD	REVISED -						0041	24-00116-00-RS	MCHENRY	31	3
	PLOT DATE = 8/31/2025	CHECKED - SPC	REVISED -						CONTRACT NO. 61L94				
		DATE -	REVISED -						ILLINOIS FED. AID PROJECT				
SCALE:		SHEET 1 OF 3 SHEETS		STA.		TO STA.							

SUMMARY OF QUANTITIES				CONSTRUCTION CODE	
				STU (80/20)	STU 80/20)
				ROAD MAINT	SAFETY
				0005	0021
CODE NO	ITEM	UNIT	TOTAL QUANTITY		
44000100	PAVEMENT REMOVAL	SQ YD	12,234	12,234	
44000164	HOT MIX ASPHALT SURFACE REMOVAL, 3 3/4"	SQ YD	8,637	8,637	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1,000	1,000	
44000600	SIDEWALK REMOVAL	SQ FT	1,234		1,234
44201705	CLASS D PATCHES, TYPE II, 5 INCH	SQ YD	387	387	
44201709	CLASS D PATCHES, TYPE III, 5 INCH	SQ YD	387	387	
44201711	CLASS D PATCHES, TYPE IV, 5 INCH	SQ YD	387	387	
60404900	FRAMES AND GRATES, TYPE 12	EACH	12	12	
60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	1	1	
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	1,000	1,000	
67100100	MOBILIZATION	L SUM	1	1	
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1	
70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1	1	
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1	
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	9,700		9,700
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	3,233		3,233
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	213		213
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	19,123		19,123
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1,355		1,355

\* SPECIALTY ITEM

SUMMARY OF QUANTITIES				CONSTRUCTION CODE	
				STU (80/20)	STU 80/20)
				ROAD MAINT	SAFETY
				0005	0021
CODE NO	ITEM	UNIT	TOTAL QUANTITY		
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1,763		1,763
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	120		120
* 78011000	GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS AND SYMBOLS	SQ FT	213		213
* 78011025	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	19,290		19,290
* 78011035	GROOVING FOR RECESSED PAVEMENT MARKING 7"	FOOT	1,355		1,355
* 78011065	GROOVING FOR RECESSED PAVEMENT MARKING 13"	FOOT	1,763		1,763
* 78011125	GROOVING FOR RECESSED PAVEMENT MARKING 25"	FOOT	120		120
* 81400200	HEAVY-DUTY HANDHOLE	EACH	1	1	
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1		1
* 87800205	DRILL EXISTING HEAVY DUTY HANDHOLE	EACH	1	1	
* 88600100	DETECTOR LOOP, TYPE I	FOOT	588		588
* 89502380	REMOVE EXISTING HANDHOLE	EACH	1	1	
* K1004585	PRUNING FOR SAFETY AND EQUIPMENT CLEARANCE	L SUM	1		1
X0320050	CONSTRUCTION LAYOUT (SPECIAL)	L SUM	1	1	
X0328862	STRUCTURES TO BE ADJUSTED	EACH	8	8	
X0327036	BIKE PATH REMOVAL	SQ YD	45		45
X4240430	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH (SPECIAL)	SQ FT	1,803		1,803
X7200061	TEMPORARY INFORMATION SIGNING	SQ FT	52		52
* X7810300	RECESSED REFLECTIVE PAVEMENT MARKER	EACH	23		23
Z0017700	DRAINAGE AND UTILITY STRUCTURES TO BE RECONSTRUCTED	EACH	5	5	

\*SPECIALTY ITEM



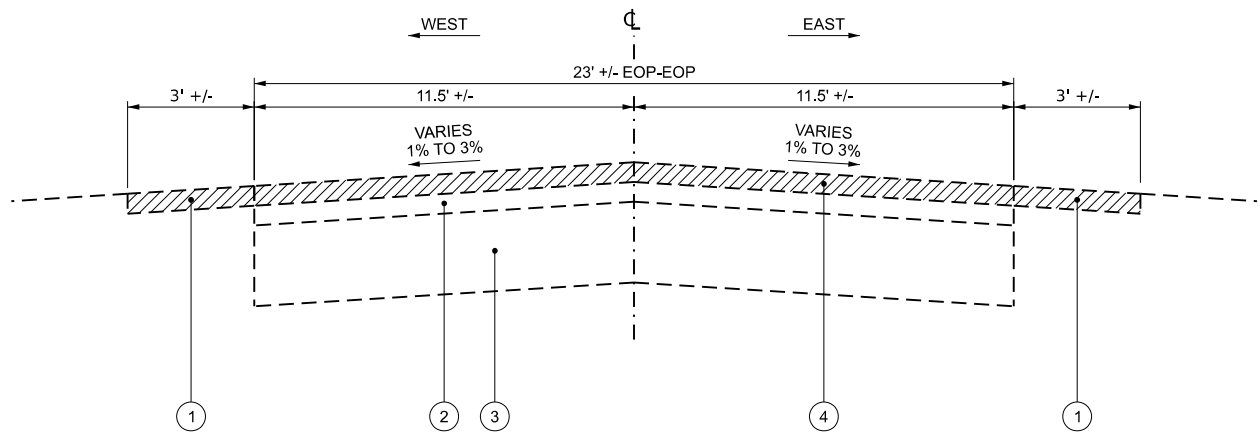
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PLOT DATE = 9/23/2025	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0041	24-00116-00-R5	MCHENRY	31	5
CONTRACT NO. 61L94				
ILLINOIS FED. AID PROJECT				



EXISTING TYPICAL SECTION  
RAFFEL ROAD  
STA 100+45.97 TO STA 123+99.41

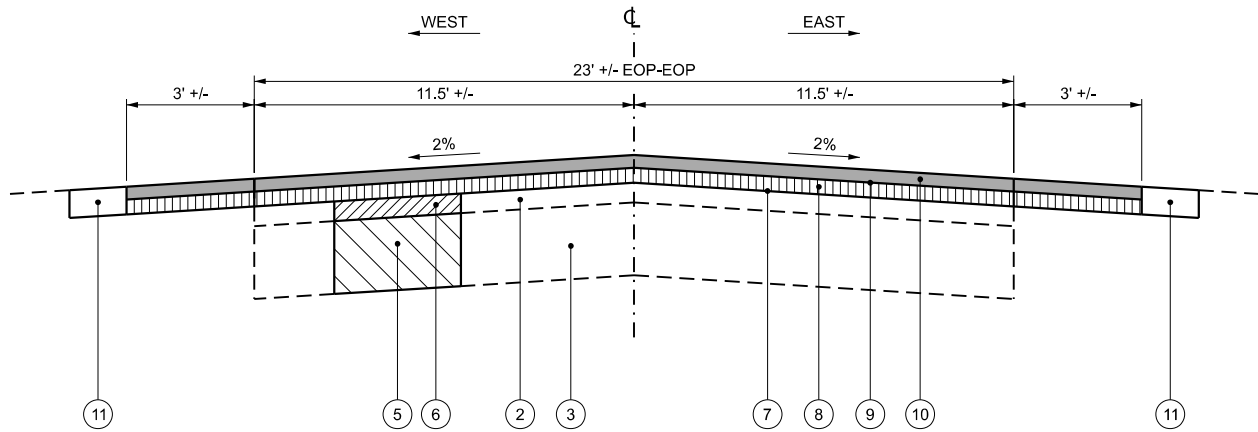
- ① EXISTING HOT-MIX ASPHALT SHOULDERS
- ② EXISTING HOT-MIX ASPHALT (SEE CORE REPORTS)
- ③ EXISTING AGGREGATE BASE COURSE (SEE CORE REPORTS)
- ④ EXISTING HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4" (2% MILL SLOPE)
- ⑤ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT
- ⑥ PROPOSED CLASS D PATCHES, 5"
- ⑦ PROPOSED BITUMINOUS MATERIALS (PRIME COAT)
- ⑧ PROPOSED HOT-MIX ASPHALT BINDER COURSE IL-19.0, N50, 2 1/2"
- ⑨ PROPOSED BITUMINOUS MATERIALS (TACK COAT)
- ⑩ PROPOSED HOT-MIX ASPHALT SURFACE COURSE IL-9.5, MIX "D", N50, 1 1/2"

PROPOSED PARKWAY RESTORATION INCLUDING:  
NITROGEN FERTILIZER NUTRIENT  
PHOSPHORUS FERTILIZER NUTRIENT  
POTASSIUM FERTILIZER NUTRIENT  
TOPSOIL FURNISH AND PLACE, 4"  
SEEDING, CLASS 1A  
EROSION CONTROL BLANKET  
\*MAXIMUM PAYMENT = 1' OFF EDGE OF PAVEMENT

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NOTES:

1. PREPARATION OF AGGREGATE BASE SHALL BE PERFORMED FOR ALL AREAS OF THE PROPOSED IMPROVEMENTS.
2. REMOVAL AND REPLACEMENT OF STRUCTURAL IMPROVEMENTS (CURB AND GUTTER, SIDEWALK, DRIVEWAY REPLACEMENT, ETC.) SHALL BE AS DIRECTED BY THE PROJECT REPRESENTATIVE.



PROPOSED TYPICAL SECTION  
RAFFEL ROAD  
STA 100+45.97 TO STA 123+99.41

HOT-MIX ASPHALT MIXTURE REQUIREMENT TABLE

ITEM	AIR VOIDS	QMP
HOT-MIX ASPHALT SURFACE COURSE IL-9.5, MIX "D", N50, 1 1/2" OR 2"	4% @ 50 GYR	LR-1030-2
HOT-MIX ASPHALT BINDER COURSE IL-19.0, N50, 2 1/2" OR 3"	4% @ 50 GYR	LR-1030-2
CLASS D PATCHES (HMA BINDER IL-19.0, 5")	4% @ 50 GYR	LR-1030-2
QMP DESIGNATIONS: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA) PER 1030-2		

1. THE UNIT WEIGHT USED TO CALCULATE ALL HMA MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN
2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE PG 64-22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS
3. THE CONTRACTOR SHALL MILL BEFORE PATCHING



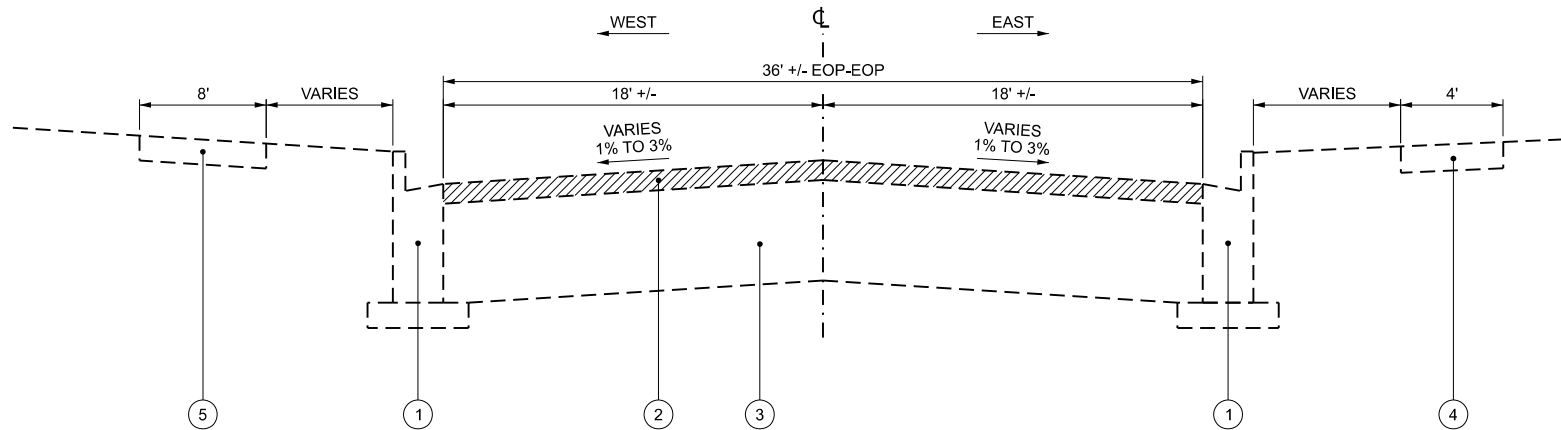
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PLOT SCALE	2,000' / in.	CHECKED -	SPC	REVISED -	
PLOT DATE	8/31/2025	DATE -		REVISED -	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

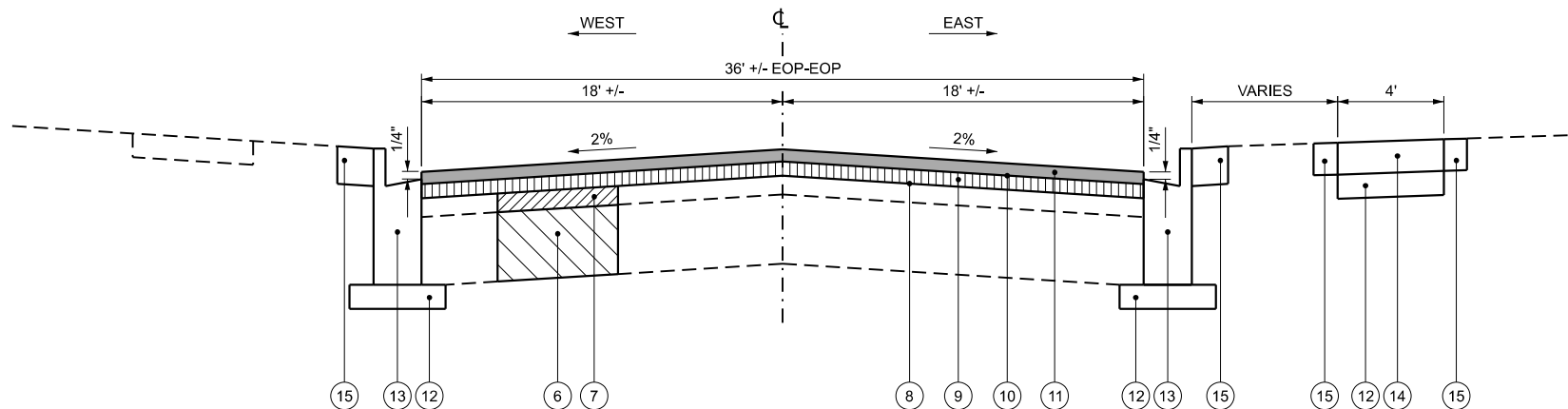
TYPICAL SECTIONS

SCALE: N.T.S. SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0041	24-00116-00-R5	MCHENRY	31	6
CONTRACT NO. 61L94				
ILLINOIS FED. AID PROJECT				



EXISTING TYPICAL SECTION  
RAFFEL ROAD  
STA 123+99.41 TO STA 153+25.97



PROPOSED TYPICAL SECTION  
RAFFEL ROAD  
STA 123+99.41 TO STA 153+25.97

- 1 EXISTING CURB & GUTTER
- 2 PAVEMENT REMOVAL, 4 3/4"
- 3 EXISTING AGGREGATE BASE COURSE (SEE CORE REPORTS)
- 4 EXISTING PORTLAND CEMENT CONCRETE SIDEWALK
- 5 EXISTING HOT-MIX ASPHALT PEDESTRIAN PATH
- 6 PROPOSED AGGREGATE SUBGRADE IMPROVEMENT
- 7 PROPOSED AGGREGATE BASE REPAIR
- 8 PROPOSED BITUMINOUS MATERIALS (PRIME COAT)
- 9 PROPOSED HOT-MIX ASPHALT BINDER COURSE IL-19.0, N50, 3"
- 10 PROPOSED BITUMINOUS MATERIALS (TACK COAT)
- 11 PROPOSED HOT-MIX ASPHALT SURFACE COURSE IL-9.5, MIX "D", N50, 2"
- 12 PROPOSED SUBBASE GRANULAR MATERIAL, TYPE B, 4" (INCLUDED IN THE COST OF THE PROPOSED CURB AND GUTTER AND SIDEWALK)
- 13 PROPOSED COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT (SPECIAL) AS DIRECTED BY THE ENGINEER
- 14 PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK, 5" (SPECIAL) AS DIRECTED BY THE ENGINEER
- 15 PROPOSED PARKWAY RESTORATION INCLUDING:  
NITROGEN FERTILIZER NUTRIENT  
PHOSPHORUS FERTILIZER NUTRIENT  
POTASSIUM FERTILIZER NUTRIENT  
TOPSOIL FURNISH AND PLACE, 4"  
SEEDING, CLASS 1A  
EROSION CONTROL BLANKET  
\*MAXIMUM PAYMENT = 1' OFF EDGE OF PAVEMENT / SIDEWALK / PEDESTRIAN PATH  
\*MAXIMUM PAYMENT = 2' OFF BACK OF CURB

- NOTES:
1. PREPARATION OF AGGREGATE BASE SHALL BE PERFORMED FOR ALL AREAS OF THE PROPOSED IMPROVEMENTS.
  2. REMOVAL AND REPLACEMENT OF STRUCTURAL IMPROVEMENTS (CURB AND GUTTER, SIDEWALK, DRIVEWAY REPLACEMENT, ETC.) SHALL BE AS DIRECTED BY THE PROJECT REPRESENTATIVE.



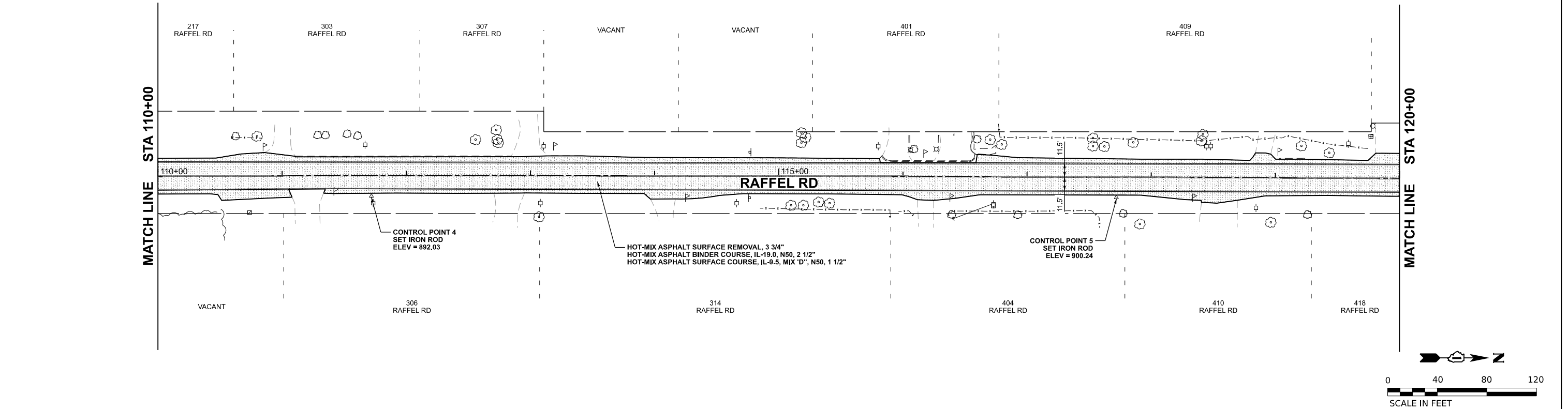
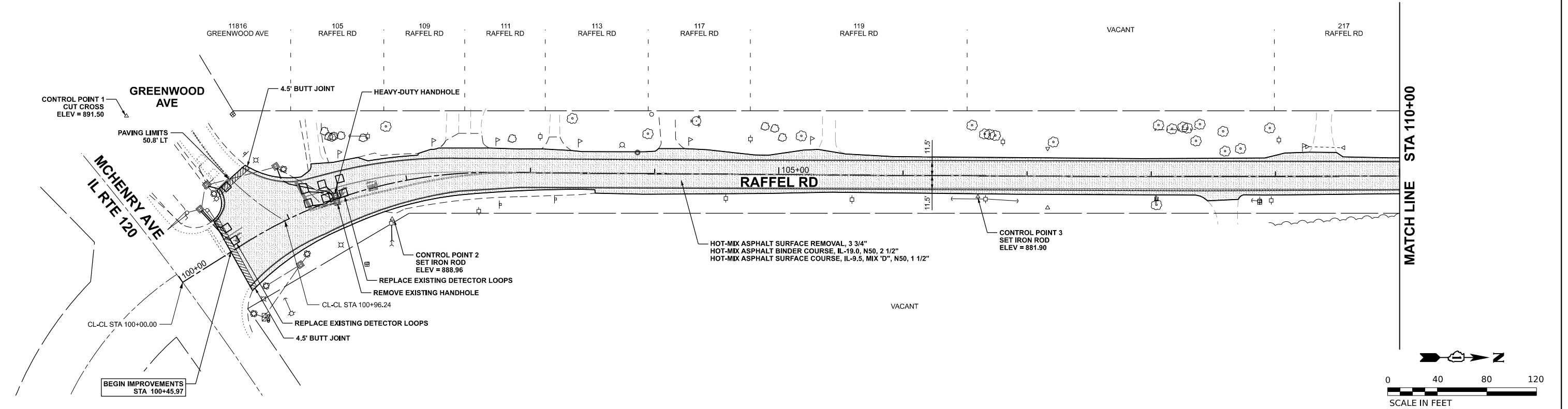
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PLOT SCALE	= 2,000' / in.	CHECKED	- SPC	REVISED	-
PLOT DATE	= 8/31/2025	DATE	-	REVISED	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

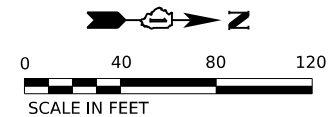
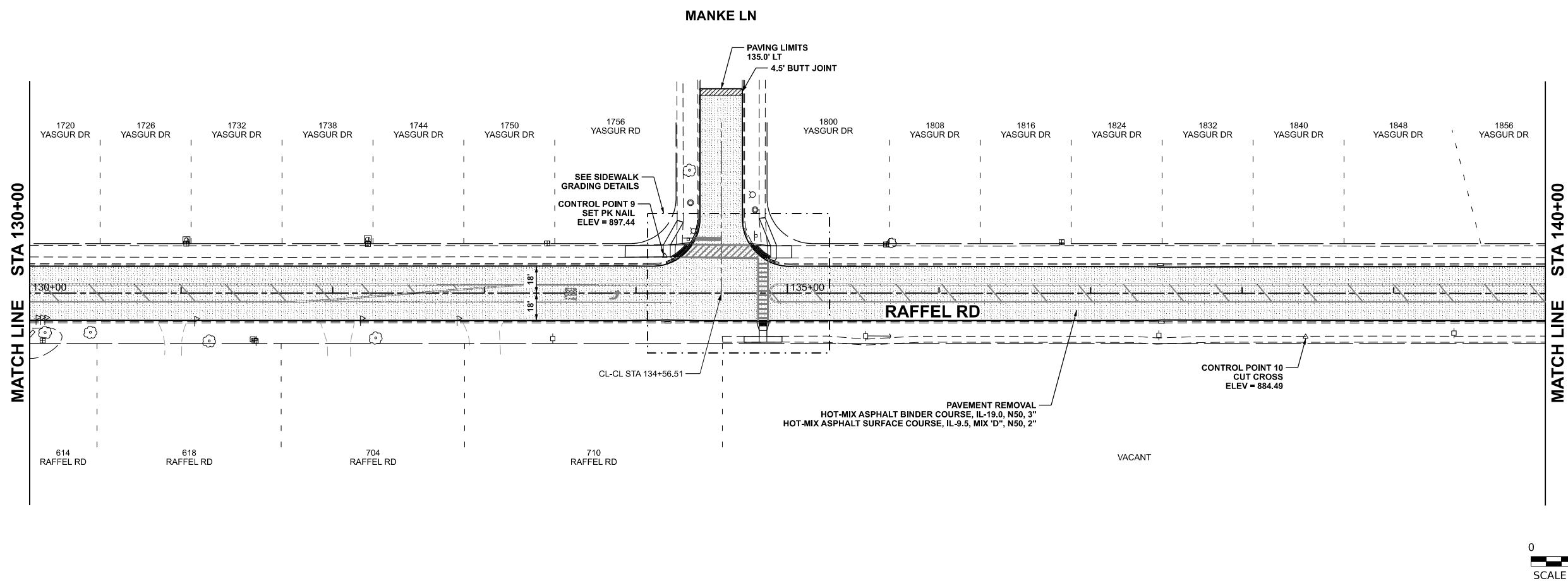
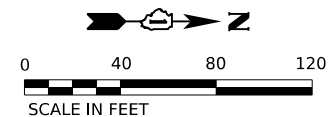
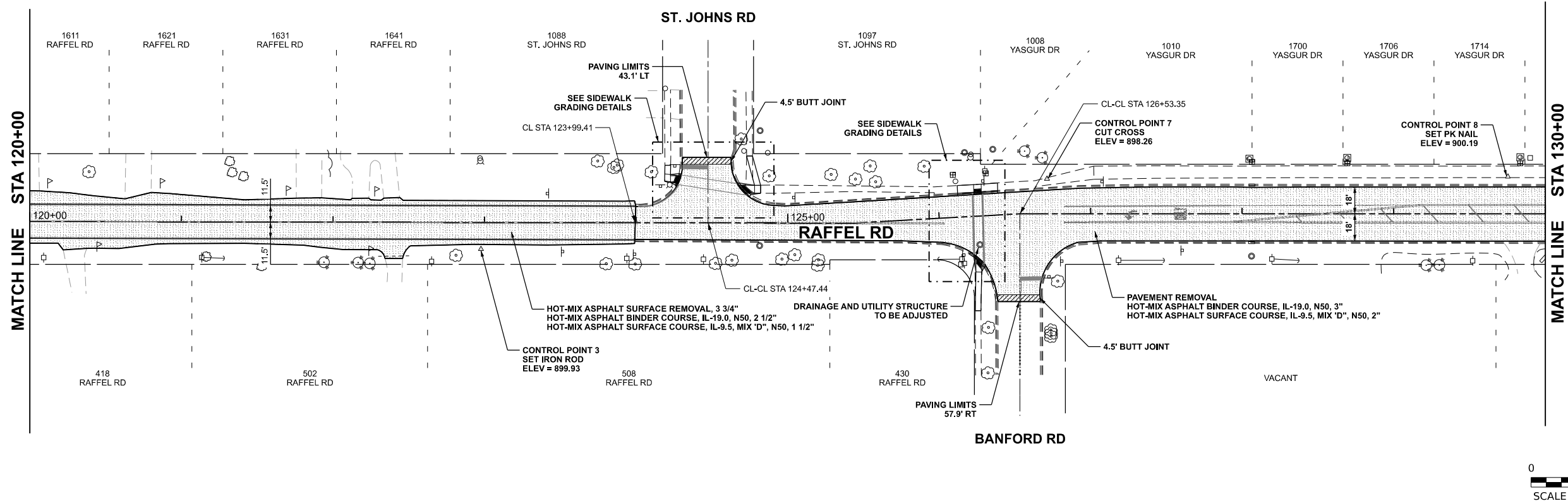
TYPICAL SECTIONS

SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0041	24-00116-00-R5	MCHENRY	31	7
CONTRACT NO. 61L94				
ILLINOIS FED. AID PROJECT				







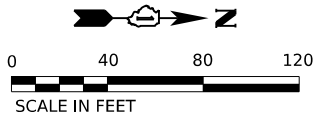
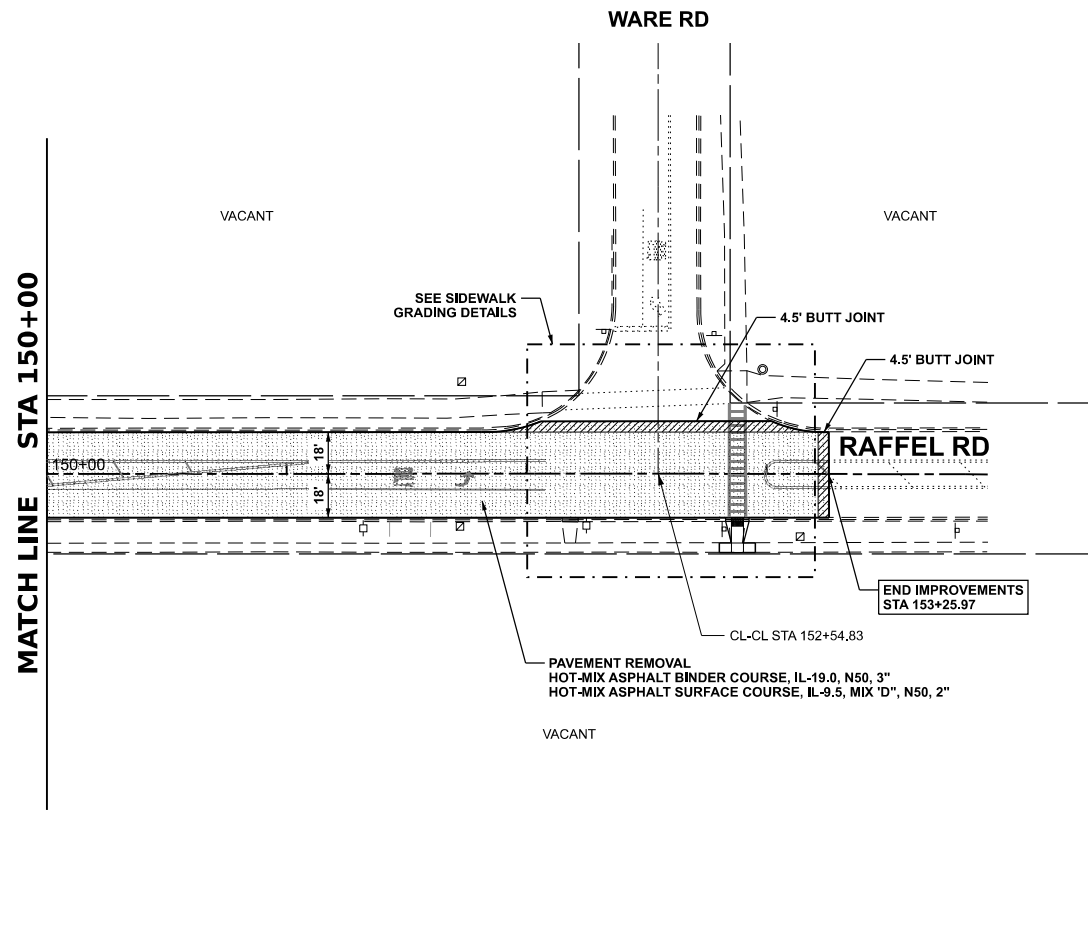
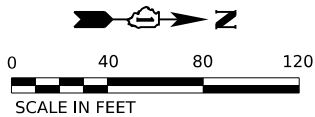
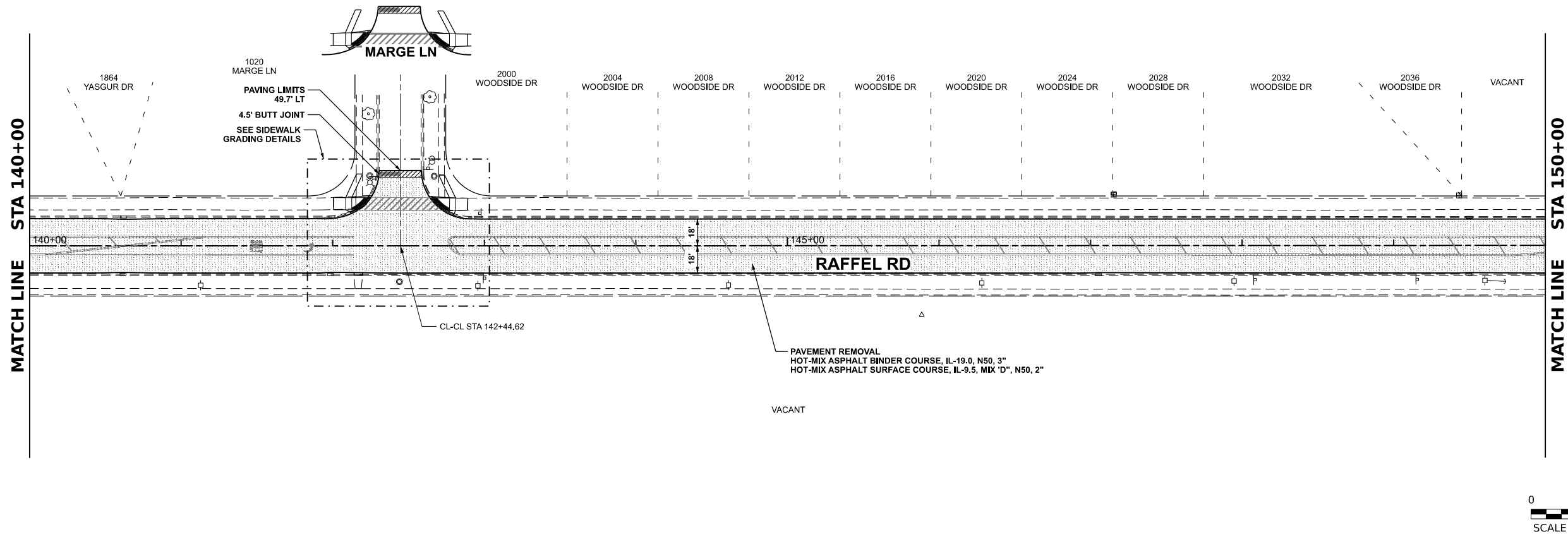
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		DRAWN	- MJD	REVISED	-
PLOT SCALE	= 80,000' / in.	CHECKED	- SPC	REVISED	-
PLOT DATE	= 8/31/2025	DATE	-	REVISED	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**RESURFACING PLAN**

SCALE: 1"=40'    SHEET 2    OF 3    SHEETS    STA. 120+00    TO STA. 140+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0041	24-00116-00-R5	MCHENRY	31	9
CONTRACT NO. 61L94				
ILLINOIS FED. AID PROJECT				



USER NAME	mdavison	DESIGNED	- CJS/MJS	REVISED	-
		DRAWN	- MJD	REVISED	-
PLOT SCALE	= 80,000' / in.	CHECKED	- SPC	REVISED	-
PLOT DATE	= 8/31/2025	DATE	-	REVISED	-

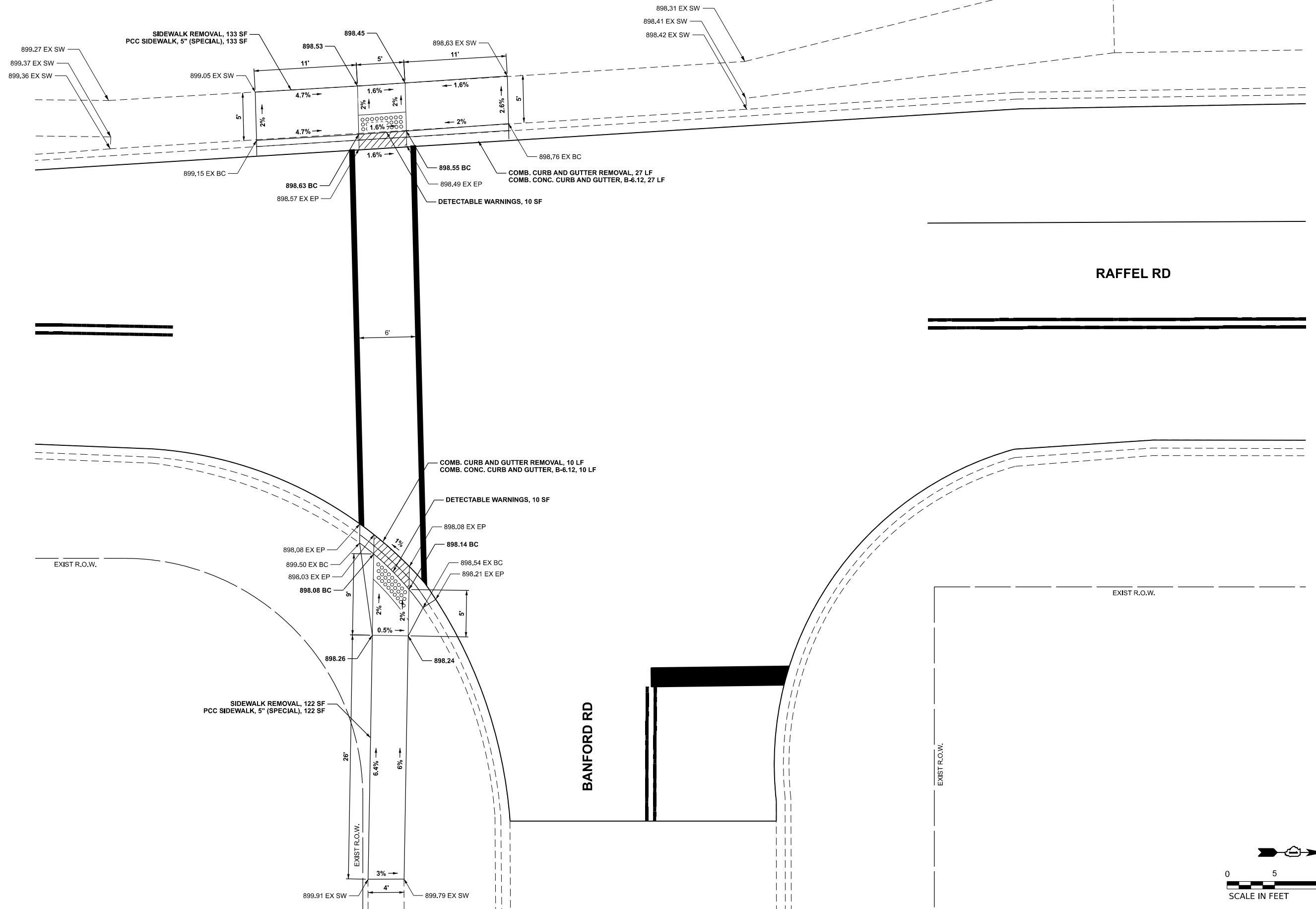
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

RESURFACING PLAN

SCALE: 1"=40' SHEET 3 OF 3 SHEETS STA. 140+00 TO STA. XXX+XX

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0041	24-00116-00-RS	MCHENRY	31	10
CONTRACT NO. 61L94				
ILLINOIS FED. AID PROJECT				





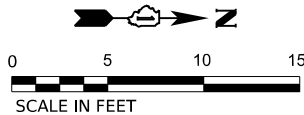
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BANFORD RD

EXIST R.O.W.

EXIST R.O.W.

EXIST R.O.W.



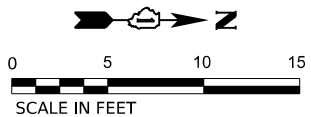
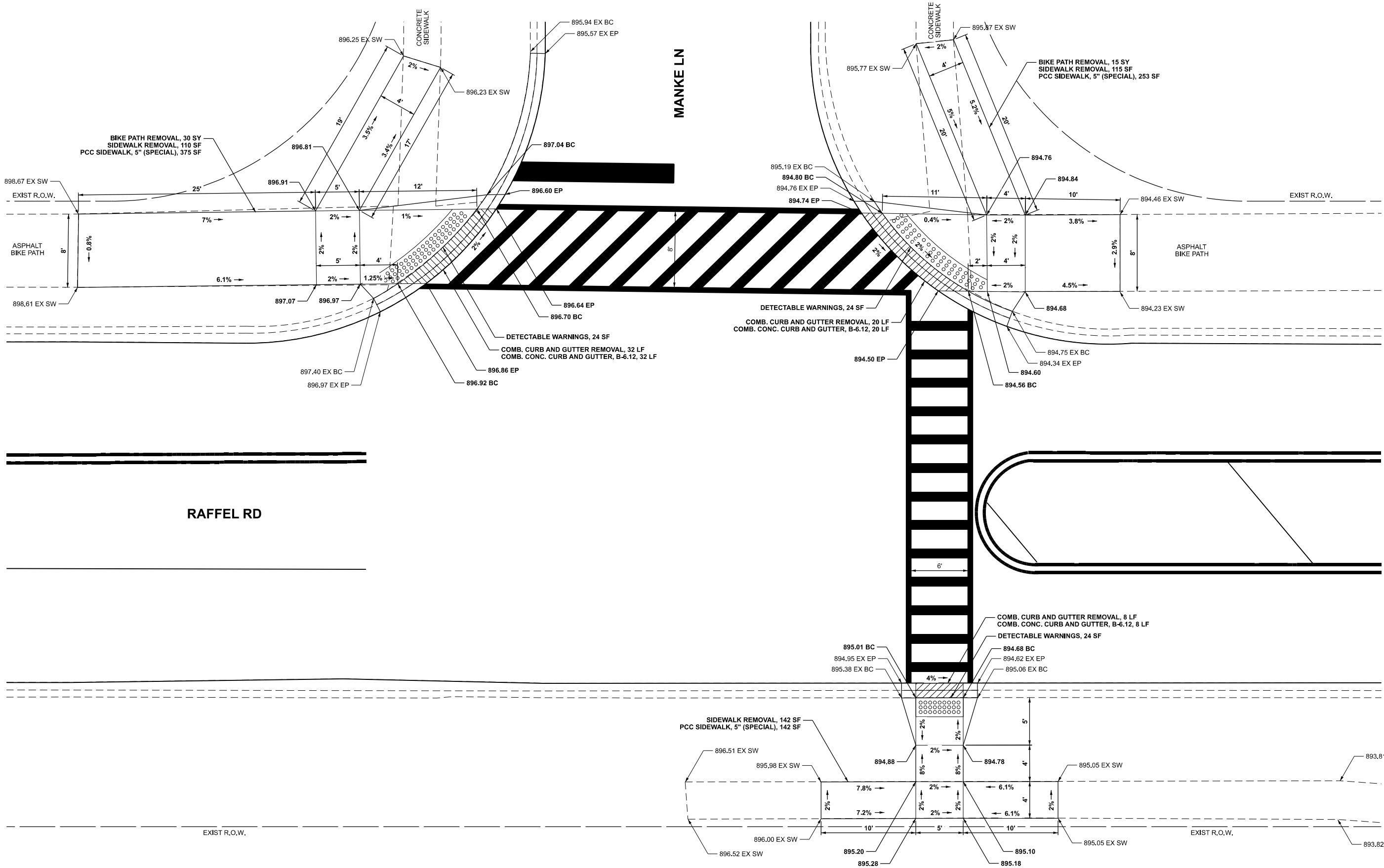
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		DRAWN	- MJD	REVISED	-
PLOT SCALE	10,000' / in.	CHECKED	- SPC	REVISED	-
PLOT DATE	8/31/2025	DATE	-	REVISED	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SIDEWALK GRADING DETAIL

SCALE: 1"=5'      SHEET 2      OF 5      SHEETS      STA.      TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0041	24-00116-00-R5	MCHENRY	31	12
CONTRACT NO. 61L94				
ILLINOIS FED. AID PROJECT				



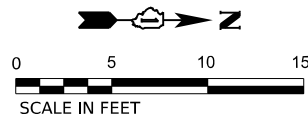
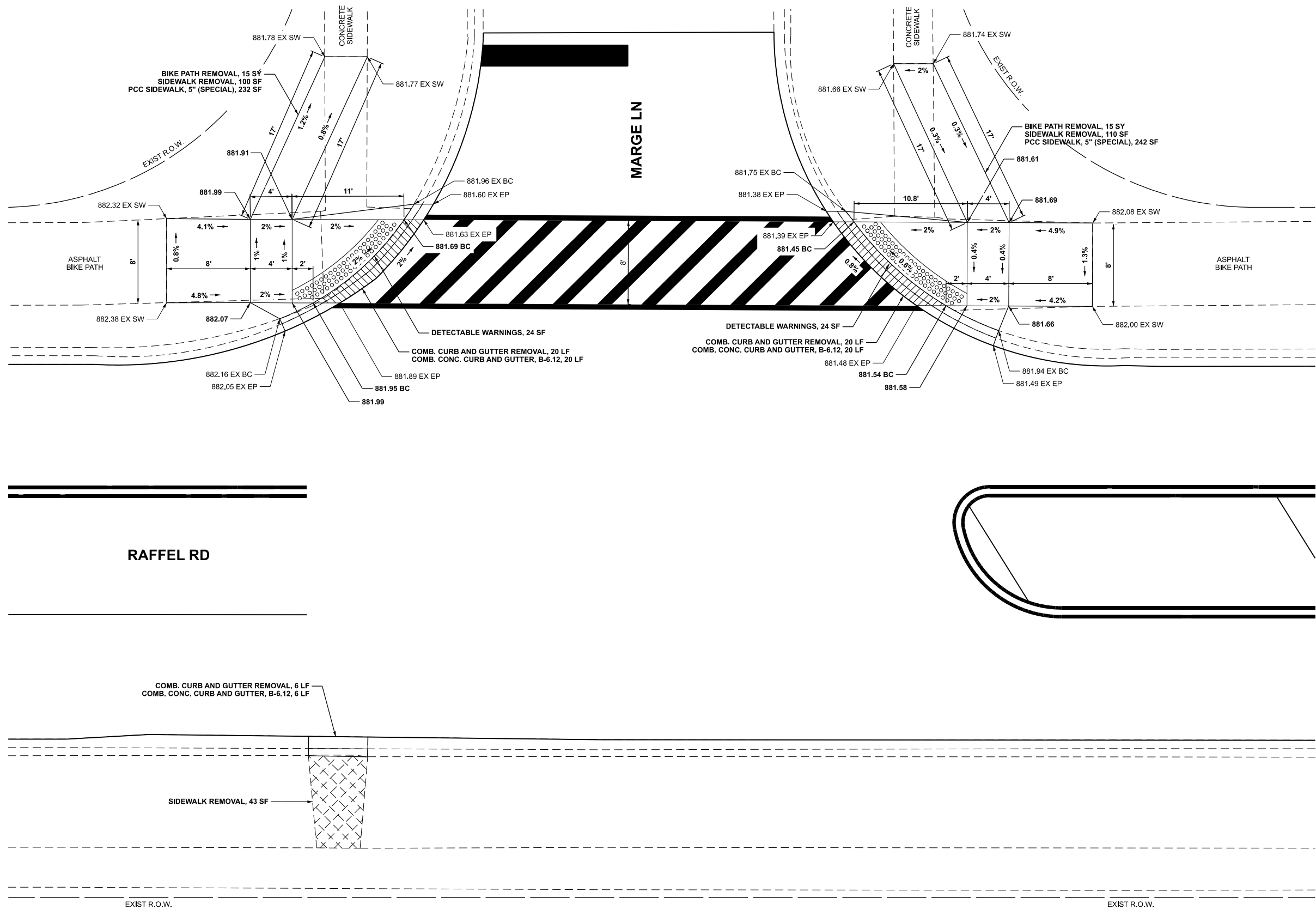
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		DRAWN	- MJD	REVISED	-
PLOT SCALE	= 10,000' / in.	CHECKED	- SPC	REVISED	-
PLOT DATE	= 8/31/2025	DATE	-	REVISED	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SIDEWALK GRADING DETAIL

SCALE: 1"=5'    SHEET 3    OF 5    SHEETS    STA.    TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0041	24-00116-00-R5	MCHENRY	31	13
CONTRACT NO. 61L94				
ILLINOIS FED. AID PROJECT				



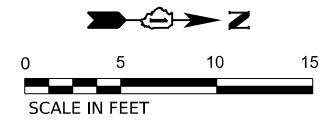
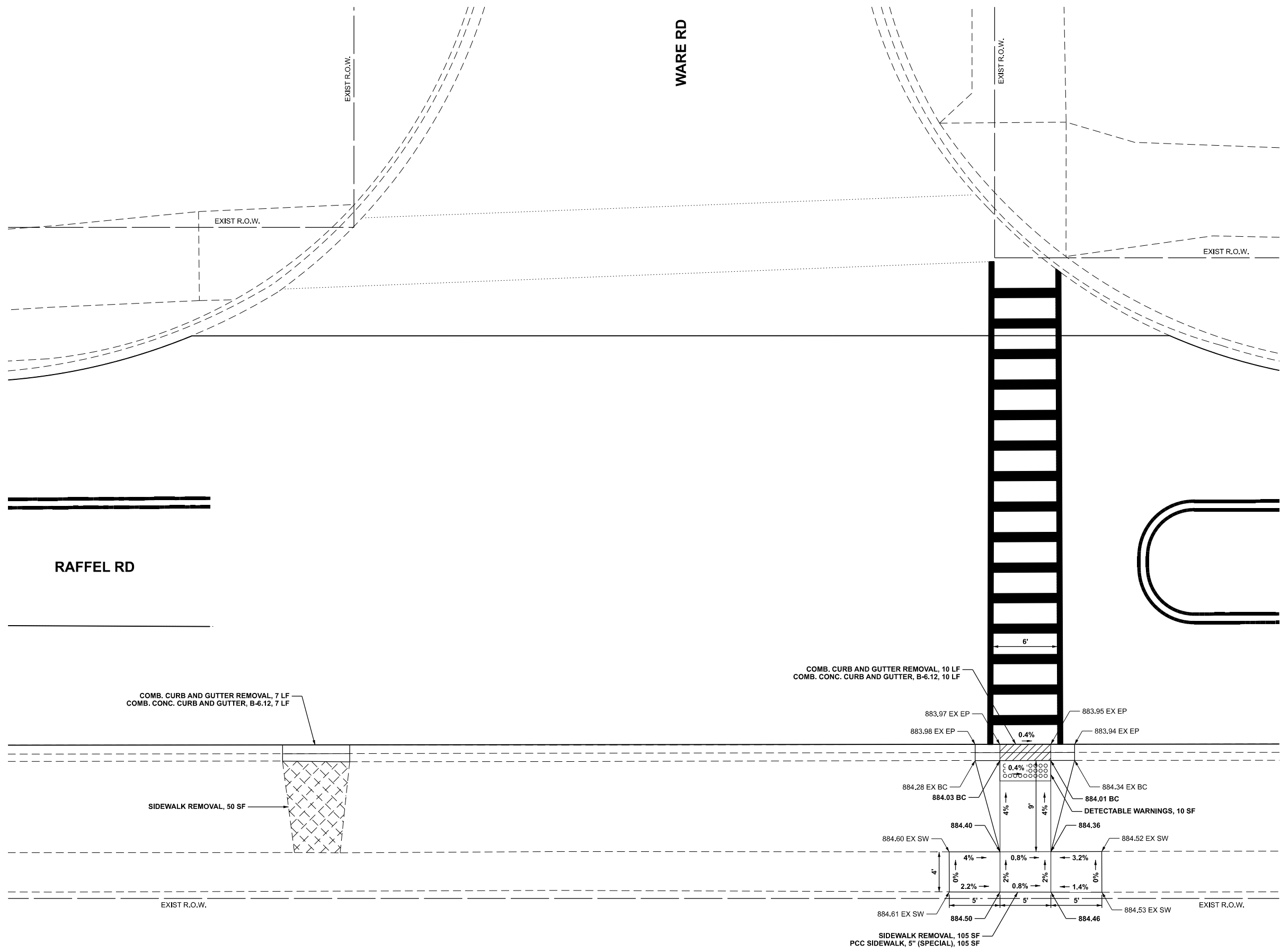
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		DRAWN	- MJD	REVISED	-
PLOT SCALE	= 10,000' / in.	CHECKED	- SPC	REVISED	-
PLOT DATE	= 8/31/2025	DATE	-	REVISED	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SIDEWALK GRADING DETAIL

SCALE: 1"=5'    SHEET 4    OF 5    SHEETS    STA.    TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0041	24-00116-00-R5	MCHENRY	31	14
CONTRACT NO. 61L94				
ILLINOIS FED. AID PROJECT				

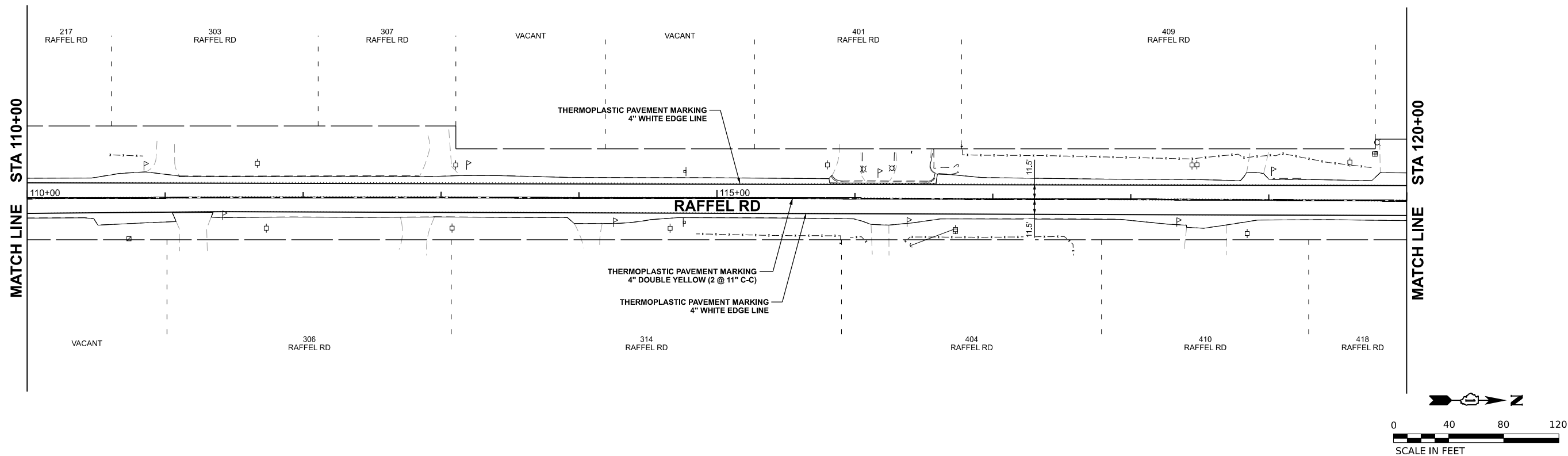
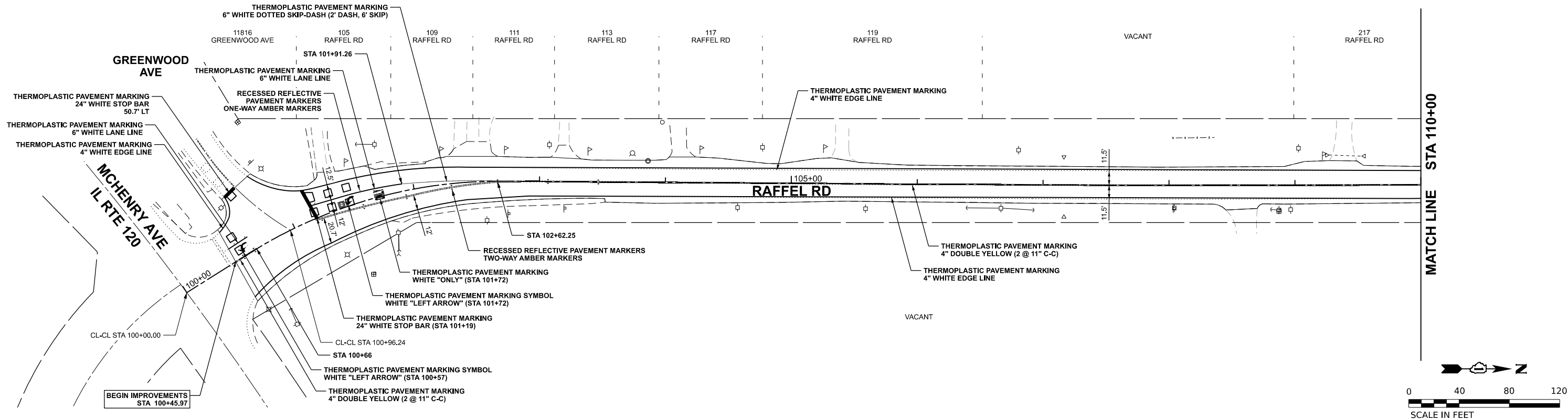


USER NAME	mdavison	DESIGNED	- CJS/MJS	REVISED	-
		DRAWN	- MJD	REVISED	-
PLOT SCALE	10,000' / in.	CHECKED	- SPC	REVISED	-
PLOT DATE	8/31/2025	DATE	-	REVISED	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SIDEWALK GRADING DETAIL			
SCALE: 1"=5'	SHEET 5	OF 5 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0041	24-00116-00-R5	MCHENRY	31	15
CONTRACT NO. 61L94				
ILLINOIS FED. AID PROJECT				



USER NAME	mdavison	DESIGNED -	CJS/MJS	REVISED -	
		DRAWN -	MJD	REVISED -	
PLOT SCALE	80,000' / in.	CHECKED -	SPC	REVISED -	
PLOT DATE	8/31/2025	DATE -		REVISED -	

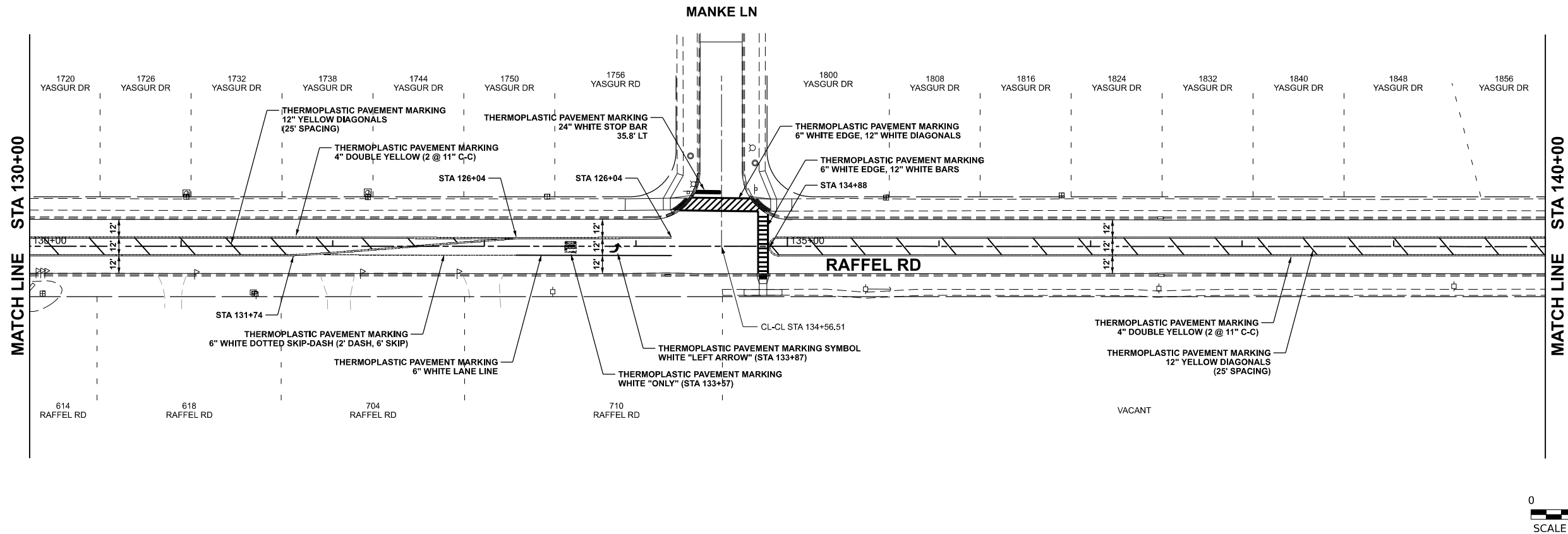
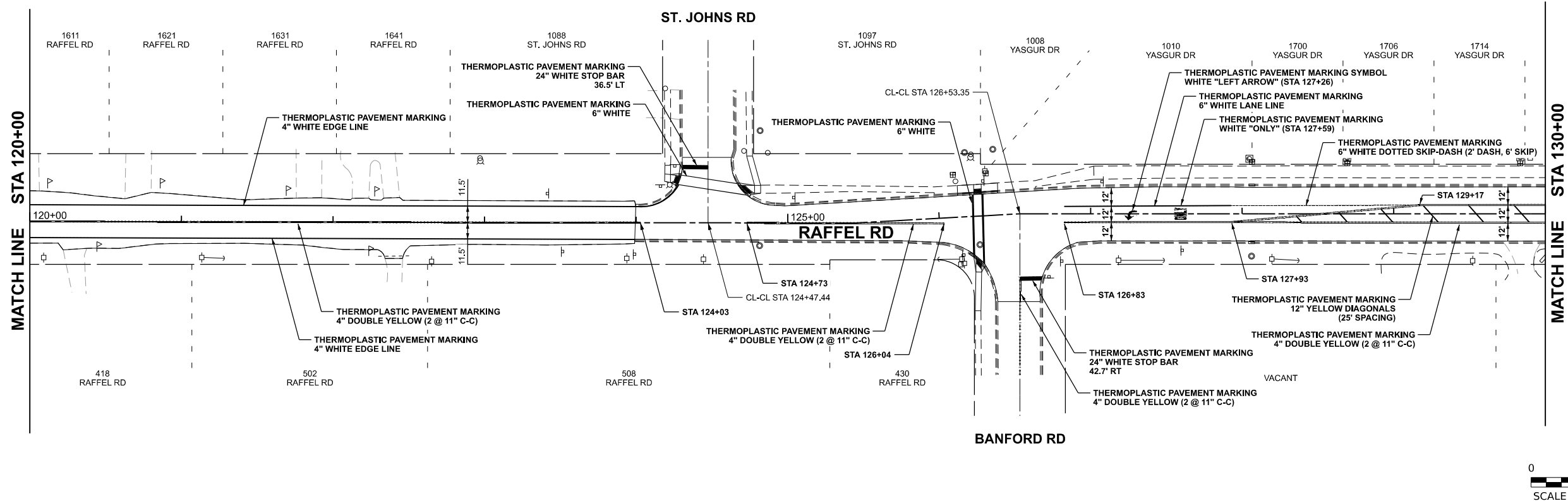
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN

SCALE: 1"=40'    SHEET 1    OF 3    SHEETS    STA. 100+00    TO STA. 120+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0041	24-00116-00-R5	MCHENRY	31	16
CONTRACT NO. 61L94				
ILLINOIS FED. AID PROJECT				



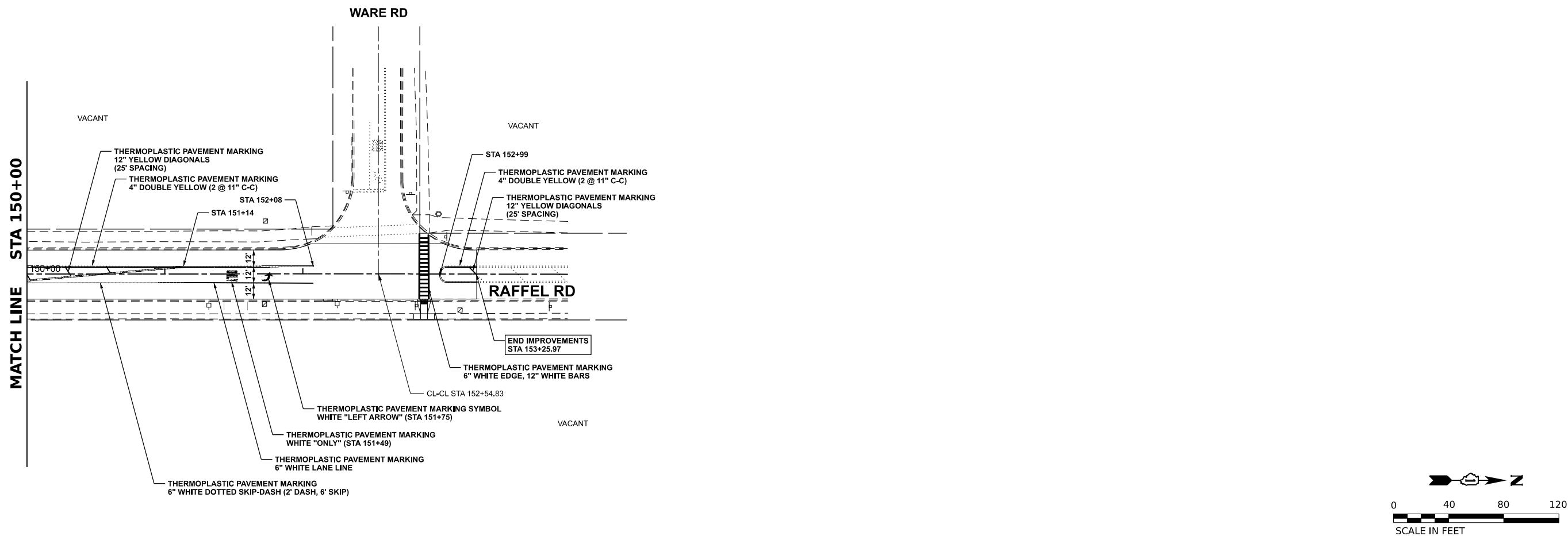
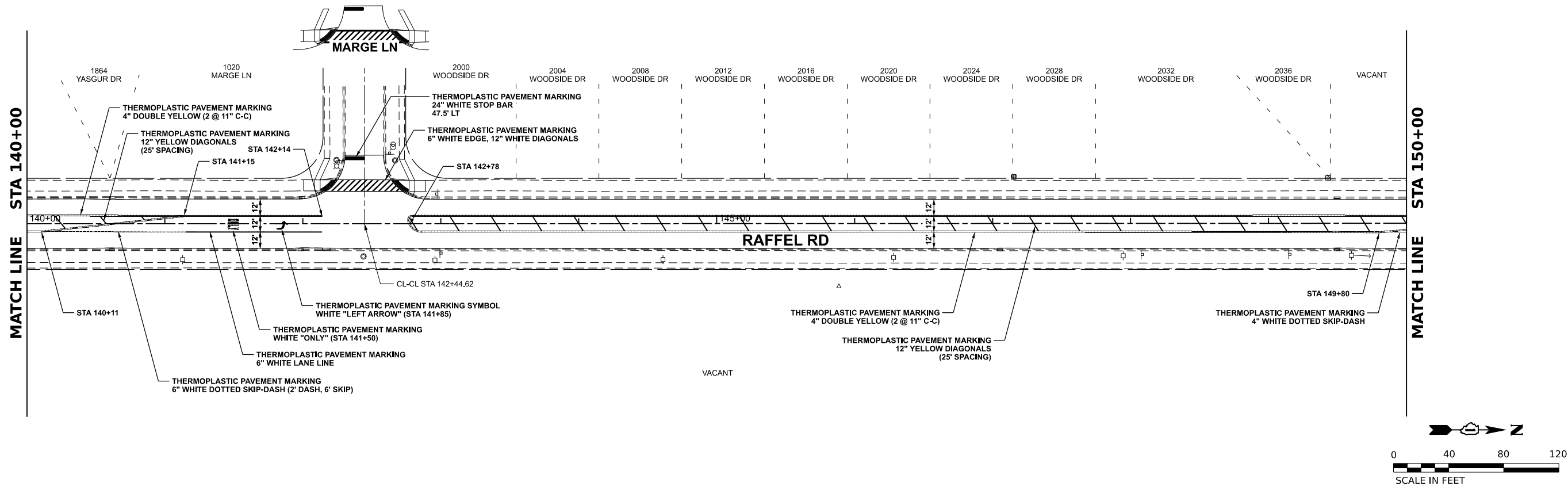


USER NAME	mdavison	DESIGNED	- CJS/MJS	REVISED	-
		DRAWN	- MJD	REVISED	-
PLOT SCALE	= 80,000' / in.	CHECKED	- SPC	REVISED	-
PLOT DATE	= 8/31/2025	DATE	-	REVISED	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN				
SCALE: 1"=40'	SHEET 2	OF 3	SHEETS	STA. 120+00 TO STA. 140+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0041	24-00116-00-R5	MCHENRY	31	17
CONTRACT NO. 61L94				
ILLINOIS FED. AID PROJECT				



USER NAME	mdavison	DESIGNED	- CJS/MJS	REVISED	-
		DRAWN	- MJD	REVISED	-
PLOT SCALE	= 80,000' / in.	CHECKED	- SPC	REVISED	-
PLOT DATE	= 8/31/2025	DATE	-	REVISED	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN

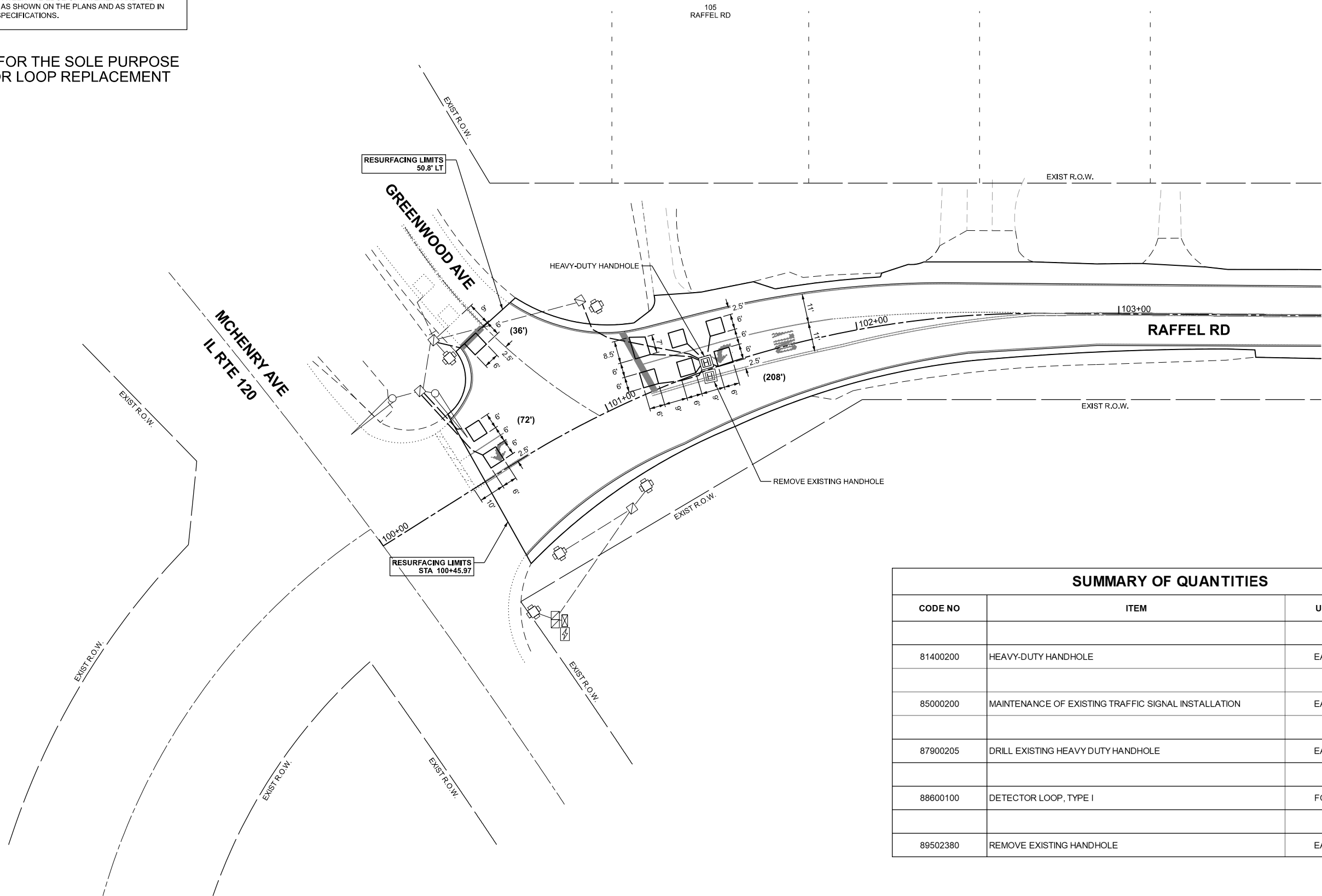
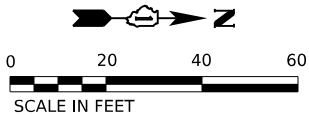
SCALE: 1"=40'    SHEET 3    OF 3    SHEETS    STA. 140+00    TO STA. XXX+XX

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0041	24-00116-00-RS	MCHENRY	31	18
CONTRACT NO. 61L94				
ILLINOIS FED. AID PROJECT				

NOTES:

1. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING & PATCHING OPERATIONS.
2. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.

THIS PLAN IS FOR THE SOLE PURPOSE  
OF DETECTOR LOOP REPLACEMENT



SUMMARY OF QUANTITIES			
CODE NO	ITEM	UNIT	QUANTITY
81400200	HEAVY-DUTY HANDHOLE	EACH	1
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
87900205	DRILL EXISTING HEAVY DUTY HANDHOLE	EACH	1
88600100	DETECTOR LOOP, TYPE I	FOOT	588
89502380	REMOVE EXISTING HANDHOLE	EACH	1

TS15089



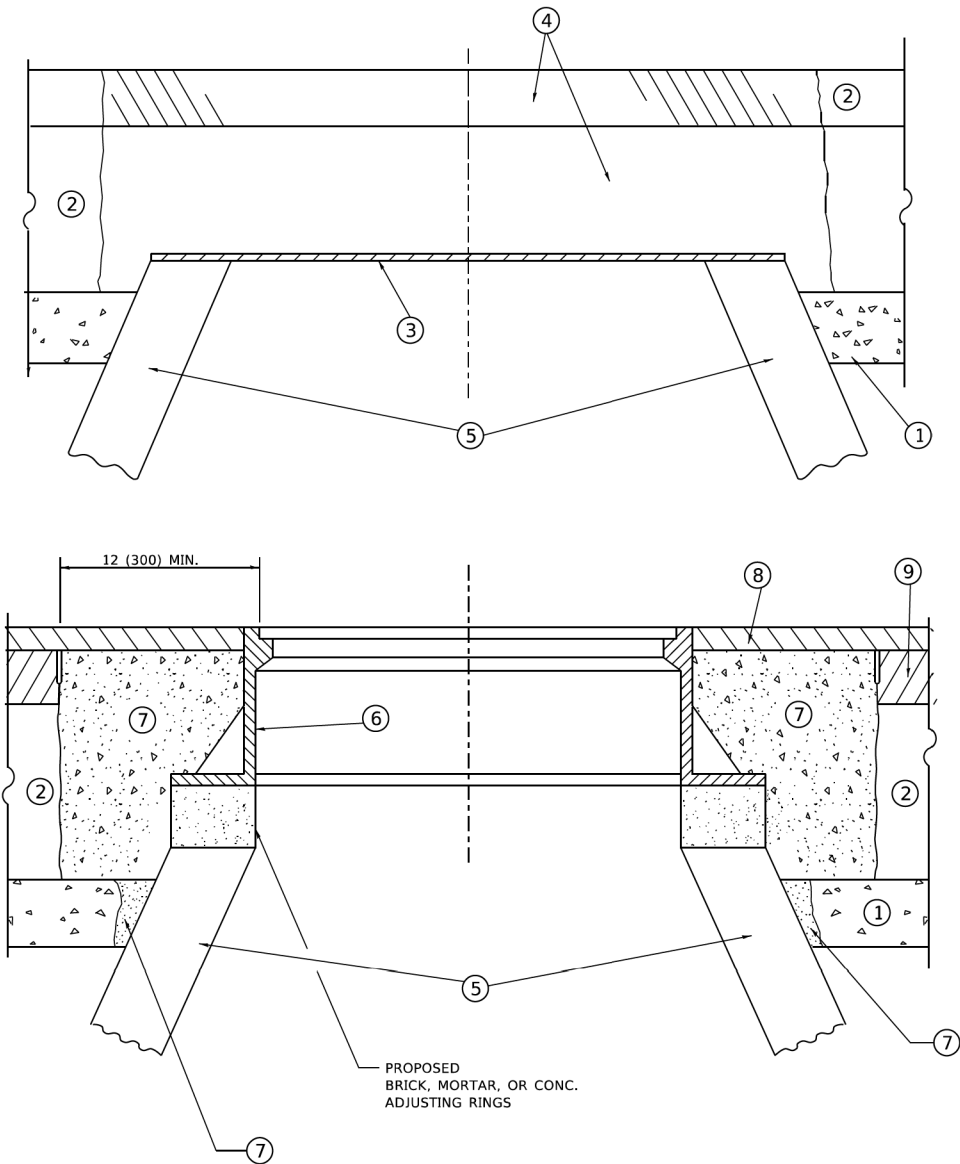
USER NAME	mdavis@son	DESIGNED -	CJS/MJS	REVISED -	
		DRAWN -	MJD	REVISED -	
PLOT SCALE	40,000' / in.	CHECKED -	SPC	REVISED -	
PLOT DATE	9/9/2025	DATE -		REVISED -	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP REPLACEMENT PLAN

SCALE: 1" = 20'    SHEET 1    OF 1    SHEETS    STA.    TO STA.

F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0041	24-00116-00-R5	MCHENRY	31	19
CONTRACT NO. 61L94				
ILLINOIS FED. AID PROJECT				



**DETAILS FOR FRAMES AND LIDS ADJUSTMENT  
WITH MILLING**

**NOTES**

1. EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
2. IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.
3. CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.
4. THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
5. THE CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL DEVICES BY THE END OF EACH WORK SHIFT.

**CONSTRUCTION PROCEDURES**

**STAGE 1 (BEFORE PAVEMENT MILLING)**

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND HMA SURFACE MIX APPROVED BY THE ENGINEER. (MIN. 3 (80) HMA TO REMAIN AFTER MILLING).

**STAGE 2 (AFTER PAVEMENT MILLING)**

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-2\* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

\* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

**LEGEND**

- |  |                               |
|--|-------------------------------|
| ① SUB-BASE GRANULAR MATERIAL                 | ⑥ FRAME AND LID (SEE NOTES)   |
| ② EXISTING PAVEMENT                          | ⑦ CLASS PP-2* CONCRETE        |
| ③ 36 (900) DIAMETER METAL PLATE              | ⑧ PROPOSED HMA SURFACE COURSE |
| ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX | ⑨ PROPOSED HMA BINDER COURSE  |
| ⑤ EXISTING STRUCTURE                         |                               |

**LOCATION OF STRUCTURES**

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

**BASIS OF PAYMENT**

1. REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."
2. THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.
3. NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.
4. WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN



USER NAME = Lawrence,DeManche	DESIGNED - R. SHAH	REVISED - R. BORO 03-09-11
	DRAWN -	REVISED - R. BORO 12-06-11
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - K. SMITH 11-18-22
PLOT DATE = 9/15/2023	DATE - 10-25-94	REVISED - K. SMITH 09-15-23

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETAIL FOR  
FRAMES AND LIDS ADJUSTMENT WITH MILLING**

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

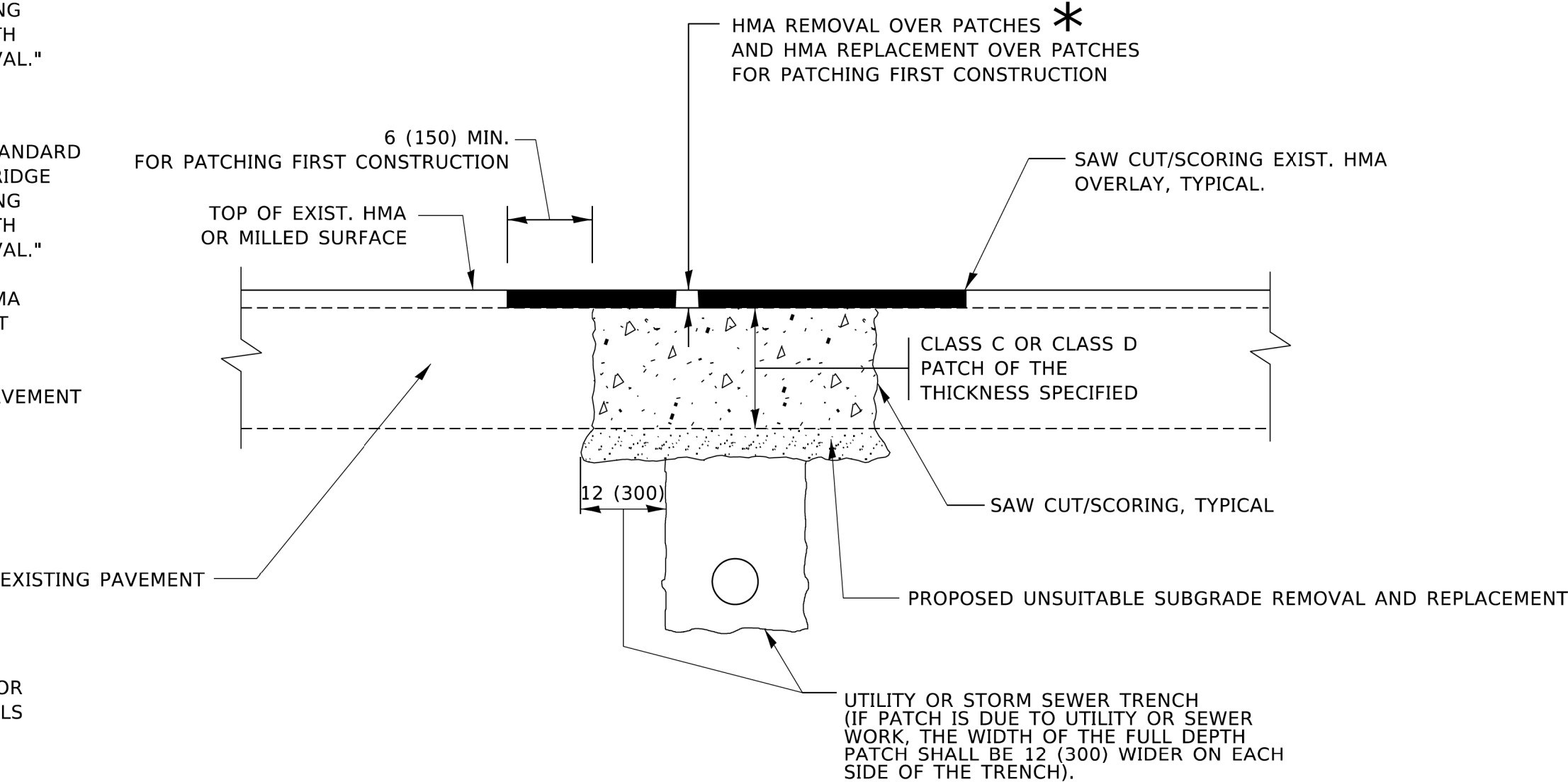
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0041	24-00116-00-R5	MCHENRY	31	20
BD600-03 (BD-08)		CONTRACT NO. 61L94		
		ILLINOIS FED. AID PROJECT		

METHOD OF MEASUREMENT

REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."

BASIS OF PAYMENT

- 1. REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."
- 2. SAW CUT/SCORING OF EXISTING HMA OVERLAY IS INCLUDED IN THE COST OF PAVEMENT PATCHING.
- 3. SAW CUT/SCORING OF EXISTING PAVEMENT IS INCLUDED IN THE COST OF PAVEMENT PATCHING.



SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

- 1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
- 2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
- 3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

- 1. MILL HMA FIRST IF THERE IS AT LEAST 4½ INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
- 2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.



USER NAME = Lawrence, DeManche	DESIGNED - R. SHAH	REVISED - R. BORO 01-01-07
	DRAWN -	REVISED - R. BORO 09-04-07
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - K. ENG 10-27-08
PLOT DATE = 11/18/2022	DATE - 10-25-94	REVISED - K. SMITH 11-18-22

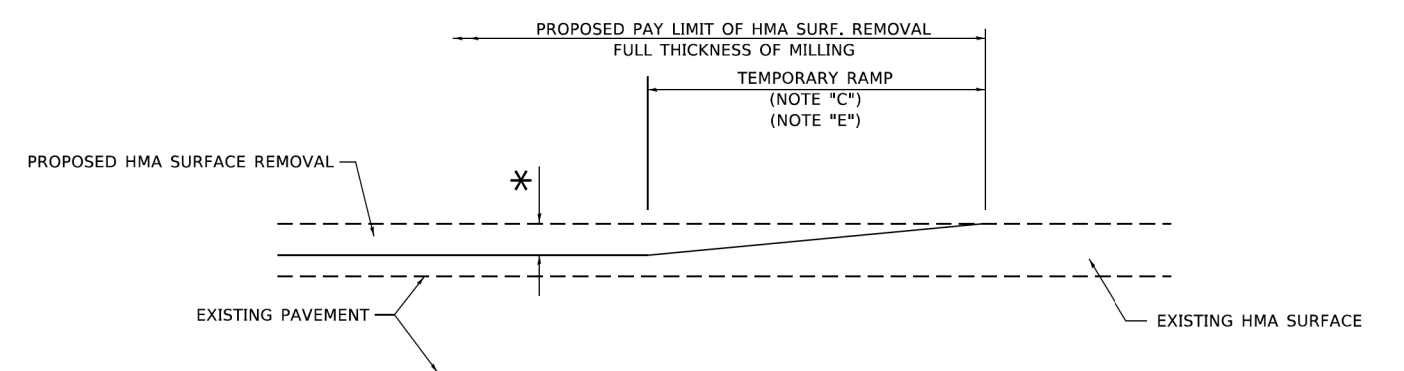
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR  
HMA SURFACED PAVEMENT

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

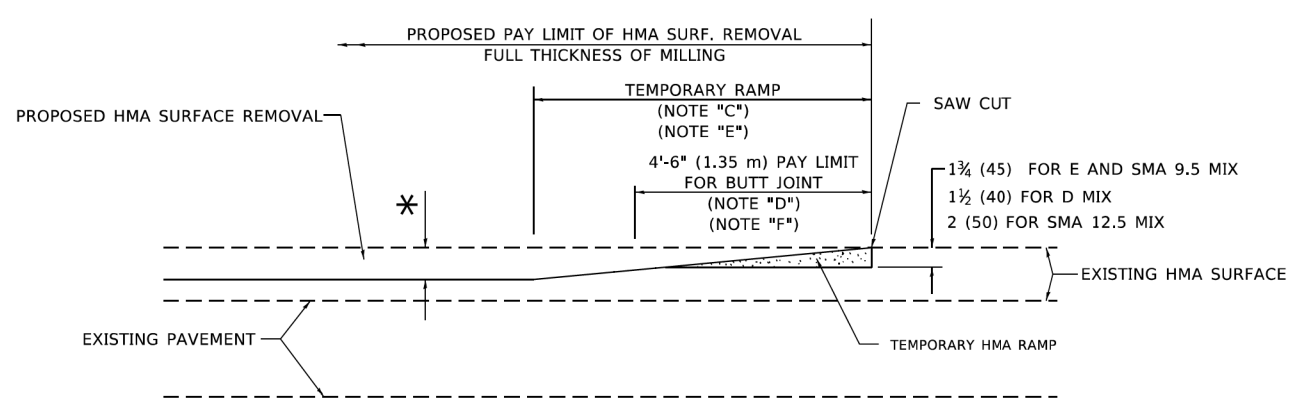
F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0041	24-00116-00-RS	MCHENRY	31	21
BD400-04 (BD-22)		CONTRACT NO. 61L94		
ILLINOIS		FED. AID PROJECT		





**MILLED TEMPORARY RAMP**  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

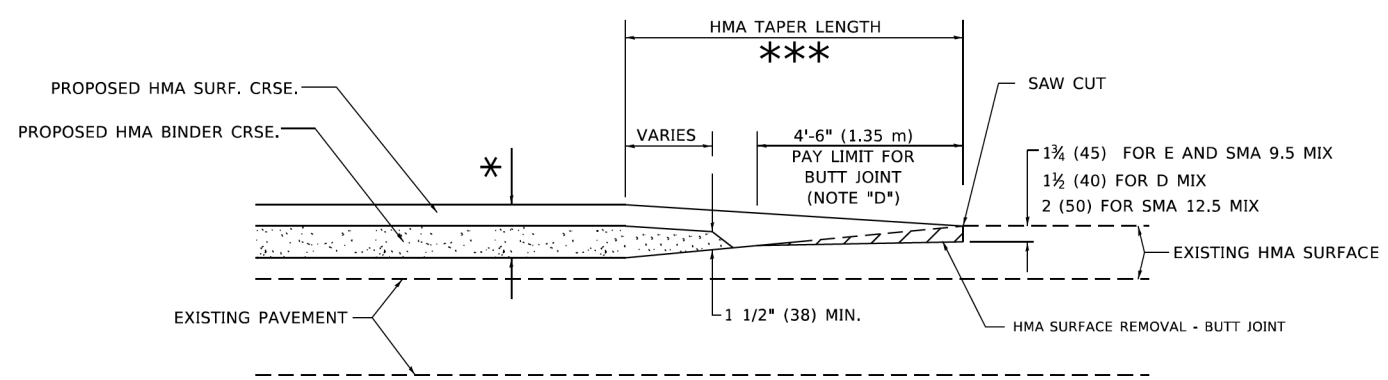
**OPTION 1**



**HMA CONSTRUCTED TEMPORARY RAMP**  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

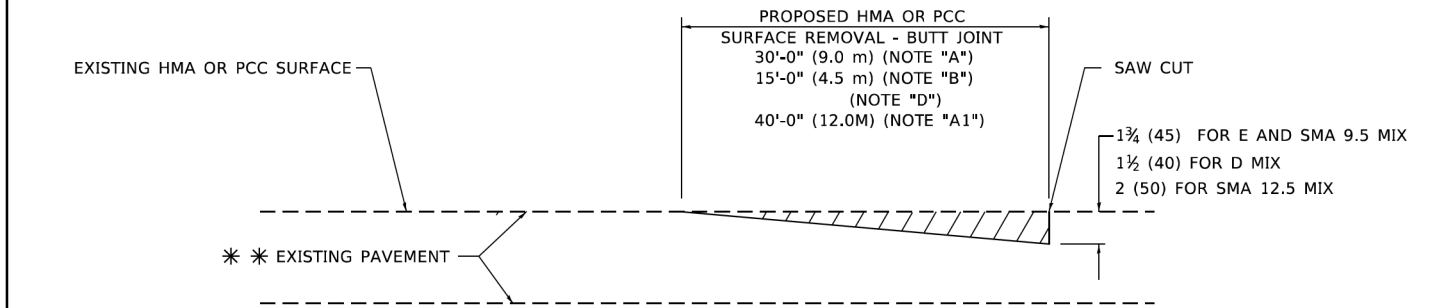
**OPTION 2**

**TYPICAL TEMPORARY RAMP**

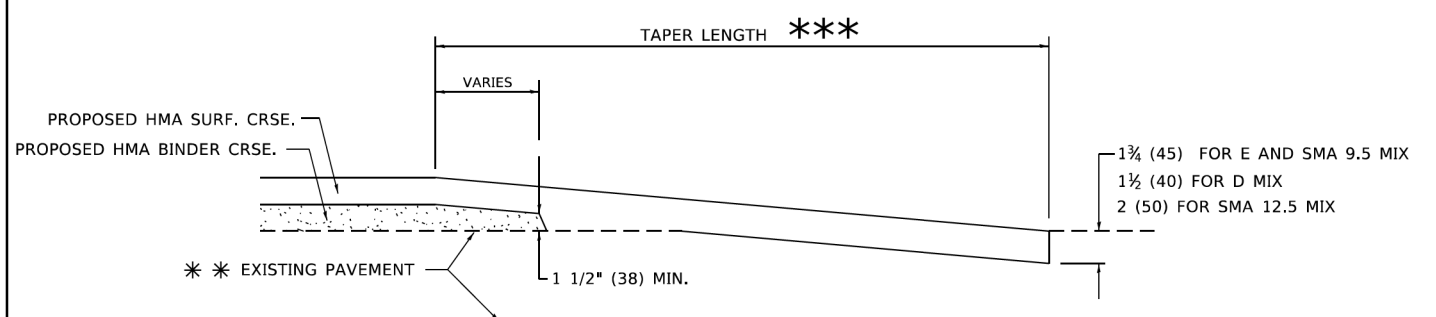


**BUTT JOINT AND  
HMA TAPER**

**TYPICAL BUTT JOINT AND HMA TAPER  
FOR MILLING AND RESURFACING**



**BUTT JOINT DETAIL**



**HMA TAPER DETAIL**

**TYPICAL BUTT JOINT AND HMA TAPER  
FOR RESURFACING ONLY**

**\*\*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

**GENERAL NOTES**

- A. MAINLINE ARTERIAL ROADWAYS AND MAJOR SIDE ROADS.
- A1. INTERSTATES
- B. MINOR SIDE ROADS.
- C. THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D. THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E. TAPER THE TEMP. RAMP AT A RATE OF 3' - 4" (1.02m) PER 1 INCH (25 mm) OF MILLING THICKNESS.  
**\*** SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- F. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".  
**\*\*\*** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")  
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

**BASIS OF PAYMENT**

- 1. THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".
- 2. THE TEMPORARY RAMP AND SAW CUT SHALL BE INCLUDED IN THE UNIT COST FOR HMA OR PCC SURFACE REMOVAL-BUTT JOINT.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

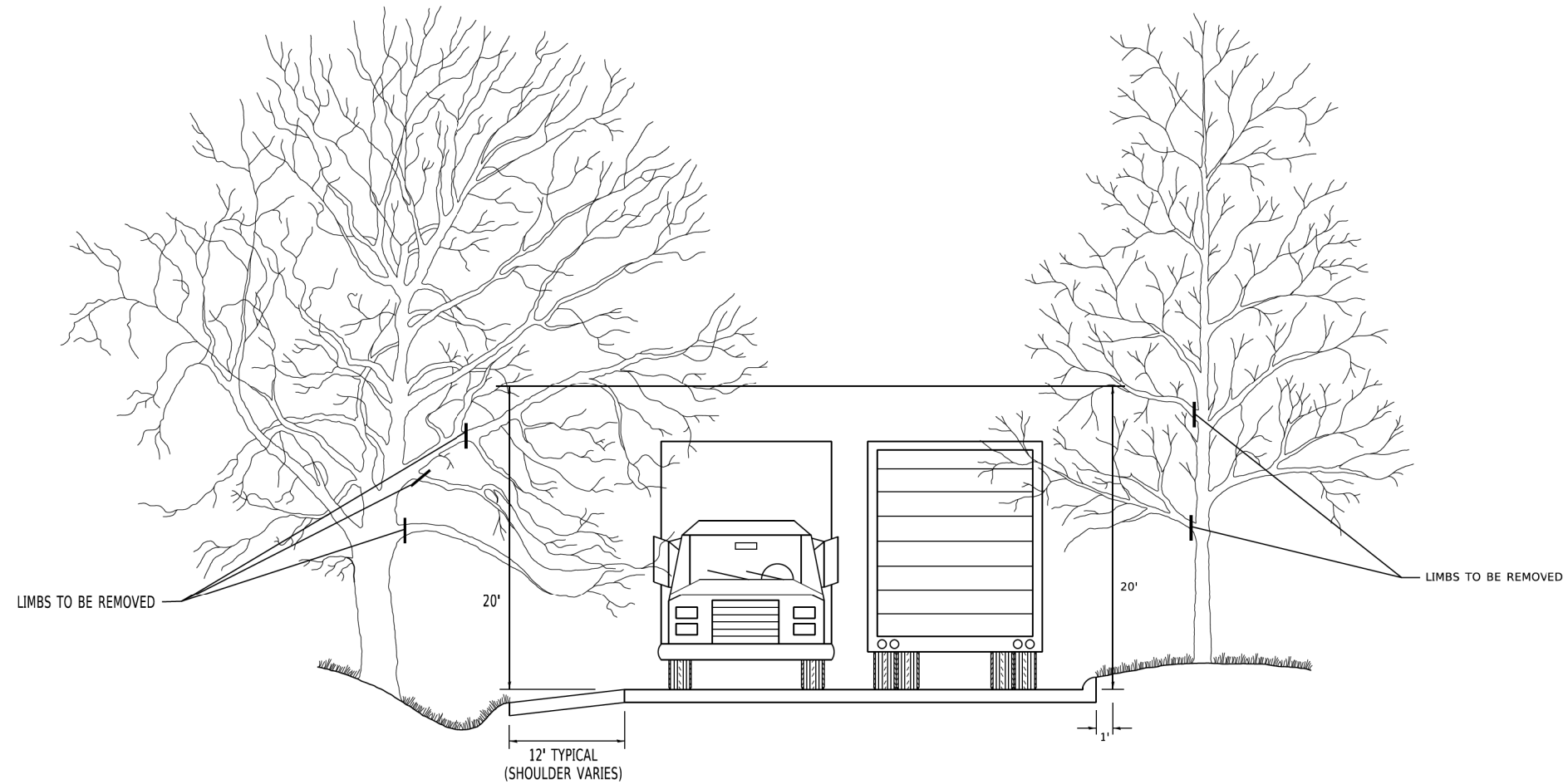


USER NAME = Lawrence,DeManche	DESIGNED - M. DE YONG	REVISED - A. ABBAS 03-21-97
	DRAWN -	REVISED - M. GOMEZ 04-06-01
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - R. BORO 01-01-07
PLOT DATE = 11/18/2022	DATE - 06-13-90	REVISED - K. SMITH 11-18-22

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

BUTT JOINTS AND HMA TAPER DETAILS			
SCALE:	SHEET 1	OF 1	SHEETS
	STA.		TO STA.

F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0041	24-00116-00-R5	MCHENRY	31	23
BD400-05 (BD-32)		CONTRACT NO. 61L94		
ILLINOIS		FED. AID PROJECT		



USER NAME = footemj	DESIGNED -	REVISED - R. BORO 10-31-06
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/11/2019	DATE -	REVISED -

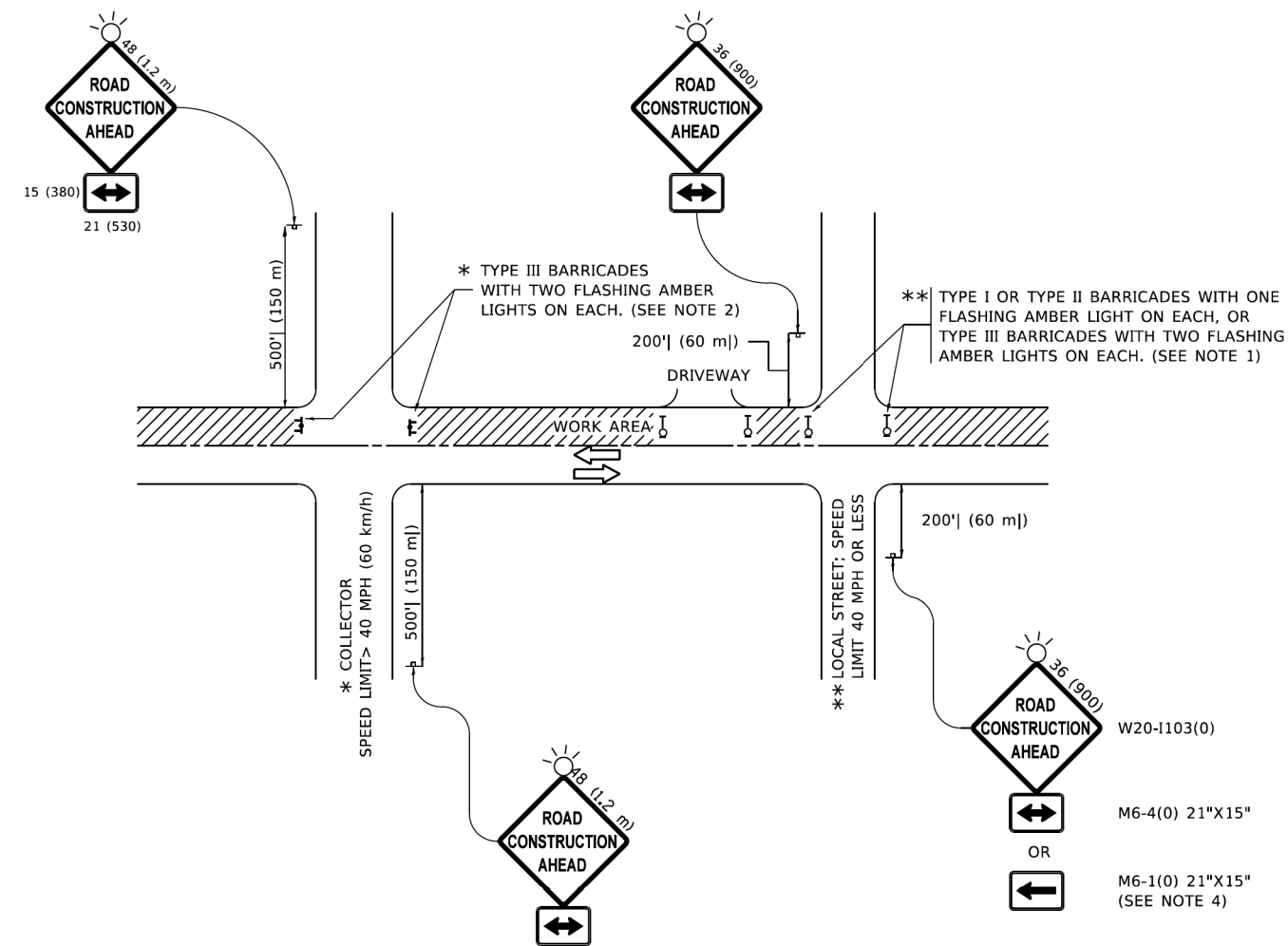
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PRUNING FOR SAFETY AND  
EQUIPMENT CLEARANCE**

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

F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0041	24-00116-00-RS	MCHENRY	31	24
BM-20		CONTRACT NO. 61L94		
ILLINOIS		FED. AID PROJECT		





NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY

b) BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.

WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE

4. SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.

6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.

7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in Inches (millimeters)  
unless otherwise shown.



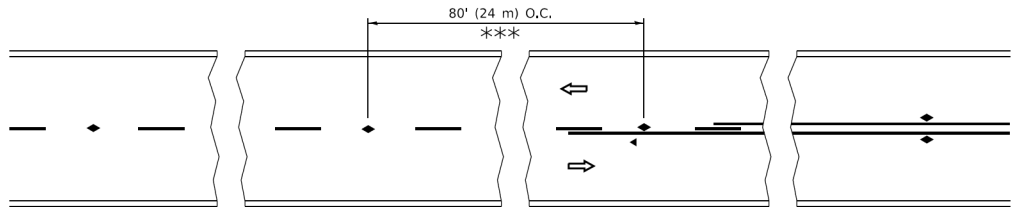
USER NAME = Lawrence,DeManche	DESIGNED - L.H.A.	REVISED - T. RAMMACHER 01-06-00
	DRAWN -	REVISED - A. SCHUETZE 07-01-13
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - A. SCHUETZE 09-15-16
PLOT DATE = 5/3/2024	DATE - 06-89	REVISED - D. SENDERAK 05-03-24

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR  
SIDE ROADS, INTERSECTIONS AND DRIVEWAYS

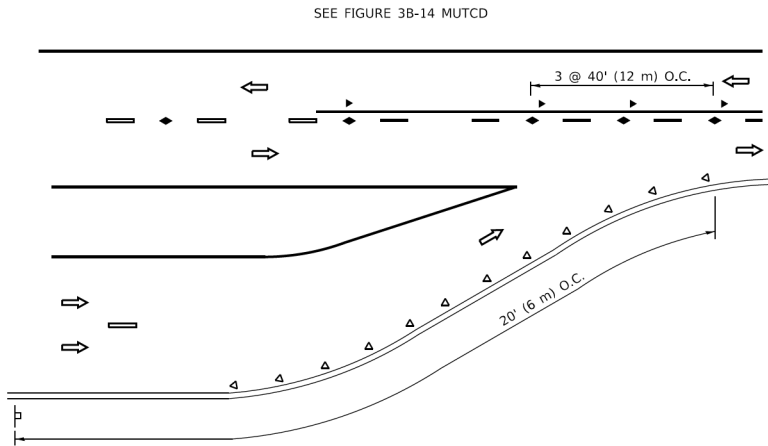
SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-10		CONTRACT NO. 61L94		
ILLINOIS		FED. AID PROJECT		

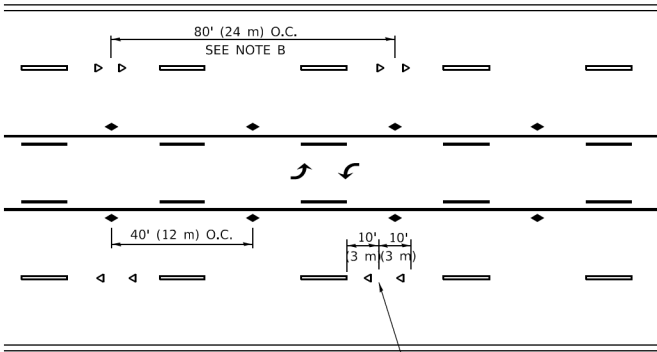


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

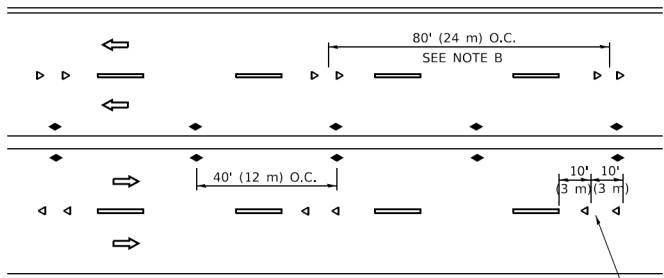
### TWO-LANE/TWO-WAY



### LANE REDUCTION TRANSITION

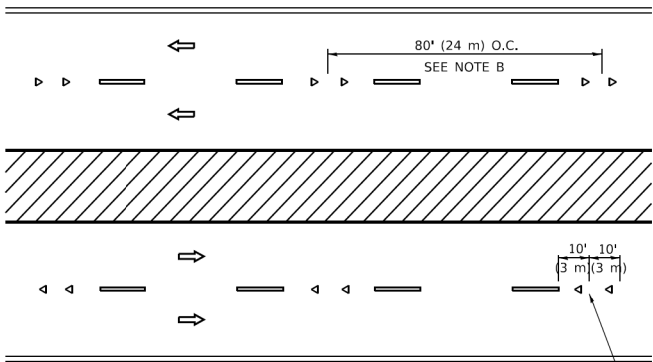


### TWO-WAY LEFT TURN



SEE NOTE A

### MULTI-LANE/UNDIVIDED



SEE NOTE A

### MULTI-LANE/DIVIDED

### GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.
4. MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES

### LANE MARKER NOTES

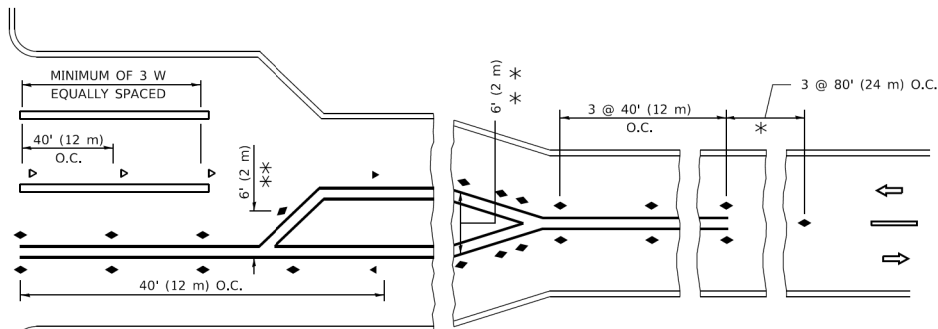
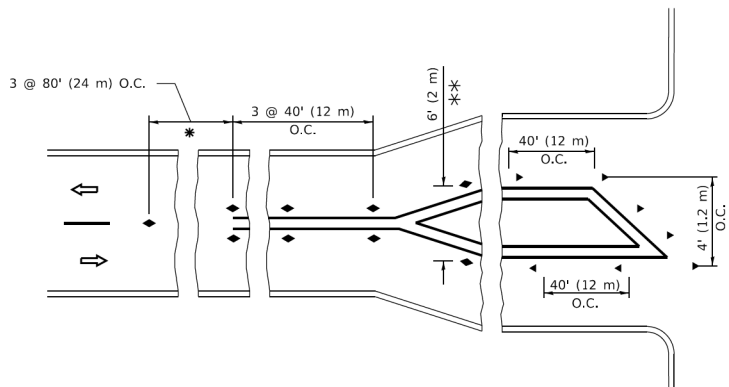
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

### SYMBOLS

- YELLOW STRIPE
- WHITE STRIPE
- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (W/O)
- TWO-WAY AMBER MARKER

### DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



\* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE  
\*\* WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

### TURN LANES

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



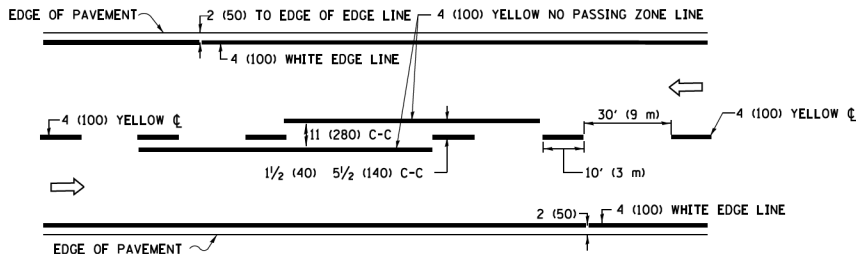
USER NAME = footem]	DESIGNED -	REVISED - T. RAMMACHER 03-12-99
	DRAWN -	REVISED - T. RAMMACHER 01-06-00
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - C. JUCIUS 09-09-09
PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 07-01-13

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

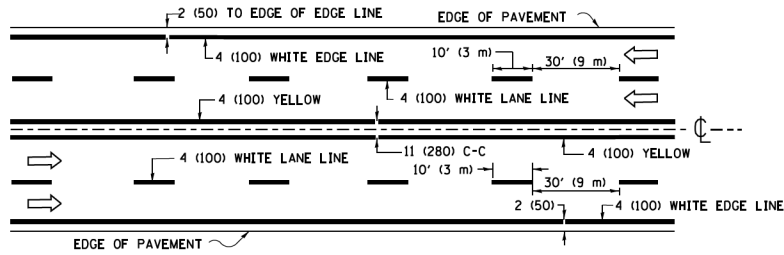
TYPICAL APPLICATION RAISED REFLECTIVE  
PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

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

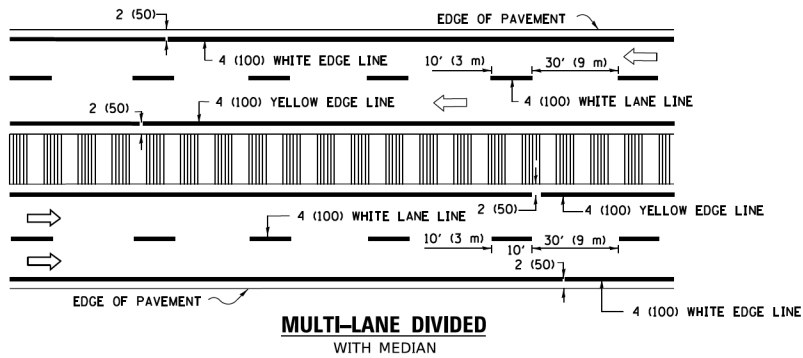
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0041	24-00116-00-R5	MCHENRY	31	26
TC-11		CONTRACT NO. 61L94		
		ILLINOIS	FED. AID PROJECT	



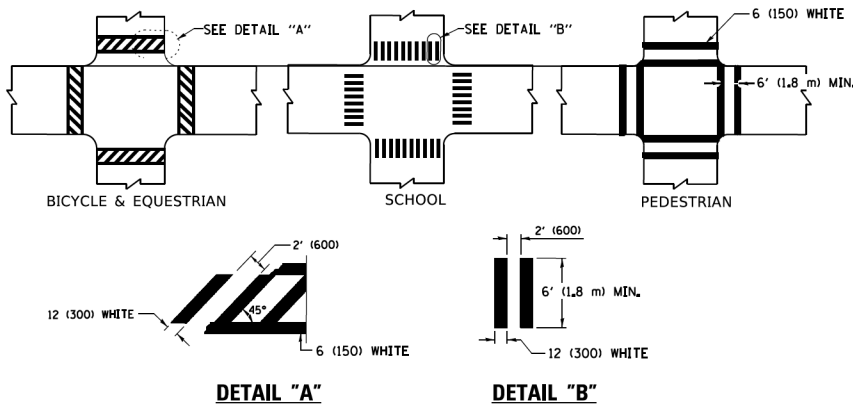
## 2-LANE ROADWAY



## MULTI-LANE UNDIVIDED

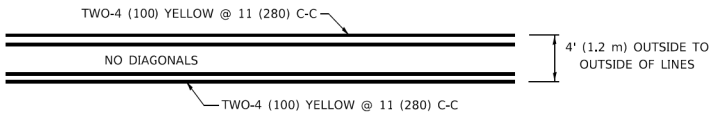


## TYPICAL LANE AND EDGE LINE MARKING

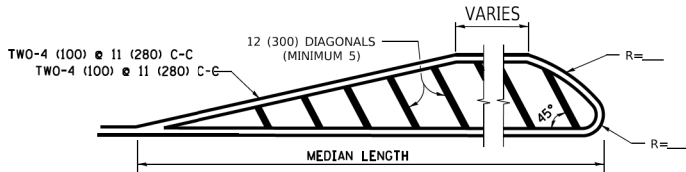


## TYPICAL CROSSWALK MARKING

\* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



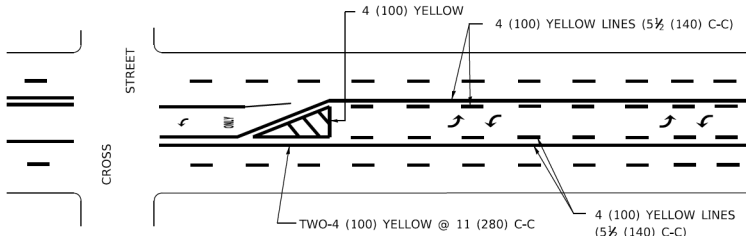
## 4' (1.2 m) WIDE MEDIANS ONLY



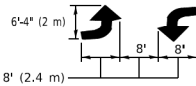
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))  
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))  
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

## MEDIANS OVER 4' (1.2 m) WIDE

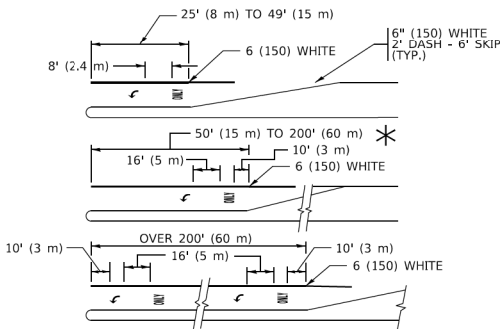


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



## MEDIAN WITH TWO-WAY LEFT TURN LANE

## TYPICAL PAINTED MEDIAN MARKING



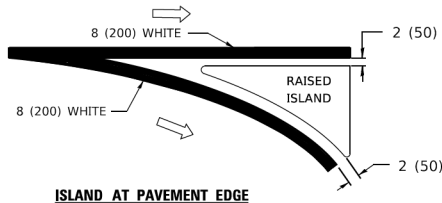
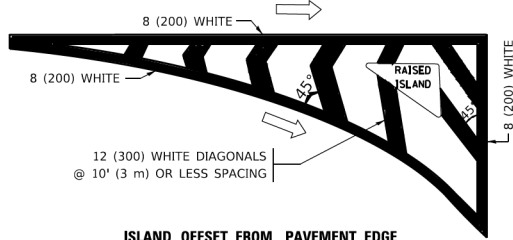
FULL SIZE LETTERS 8" (2.4 m) AND ARROWS SHALL BE USED.

\* AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)

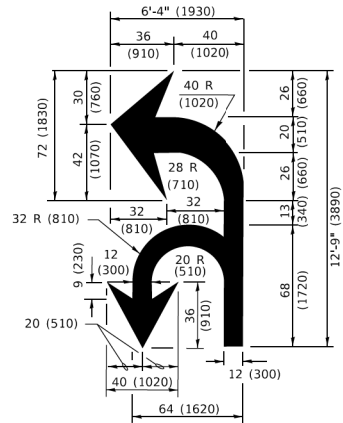
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

## TYPICAL LEFT (OR RIGHT) TURN LANE

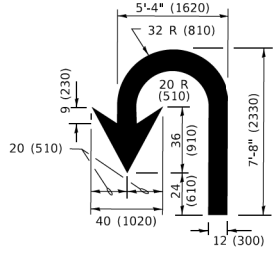
## TYPICAL TURN LANE MARKING



## TYPICAL ISLAND MARKING



## COMBINATION LEFT AND U-TURN



## LANE REDUCTION TRANSITION

\* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE: FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8' )	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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



USER NAME = footem]	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
	DRAWN -	REVISED - C. JUCIUS 07-01-13
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - C. JUCIUS 12-21-15
PLOT DATE = 3/4/2019	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

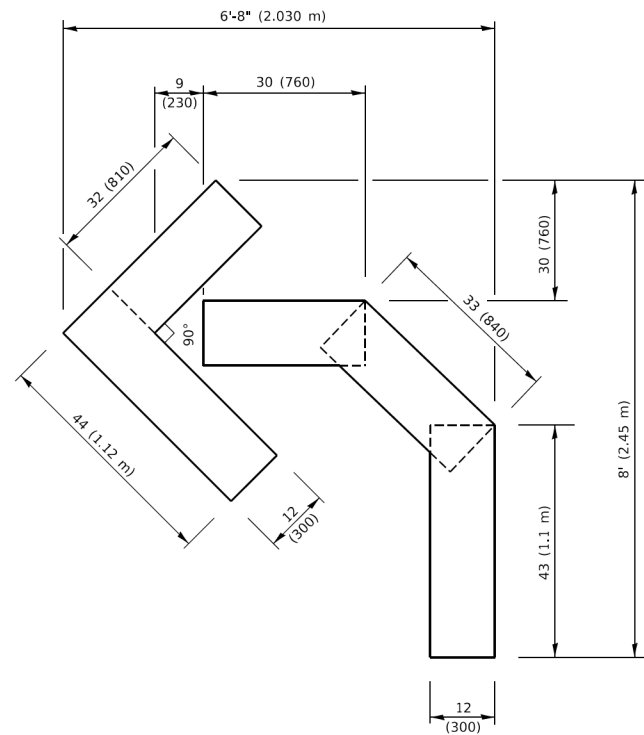
## STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

## DISTRICT ONE TYPICAL PAVEMENT MARKINGS

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

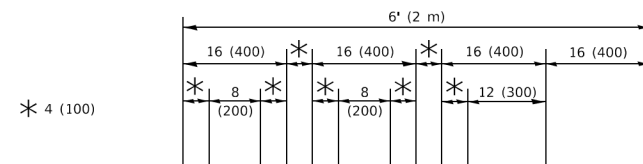
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0041	24-00116-00-R5	MCHENRY	31	27
	TC-13	CONTRACT NO. 61L94		

ILLINOIS FED. AID PROJECT



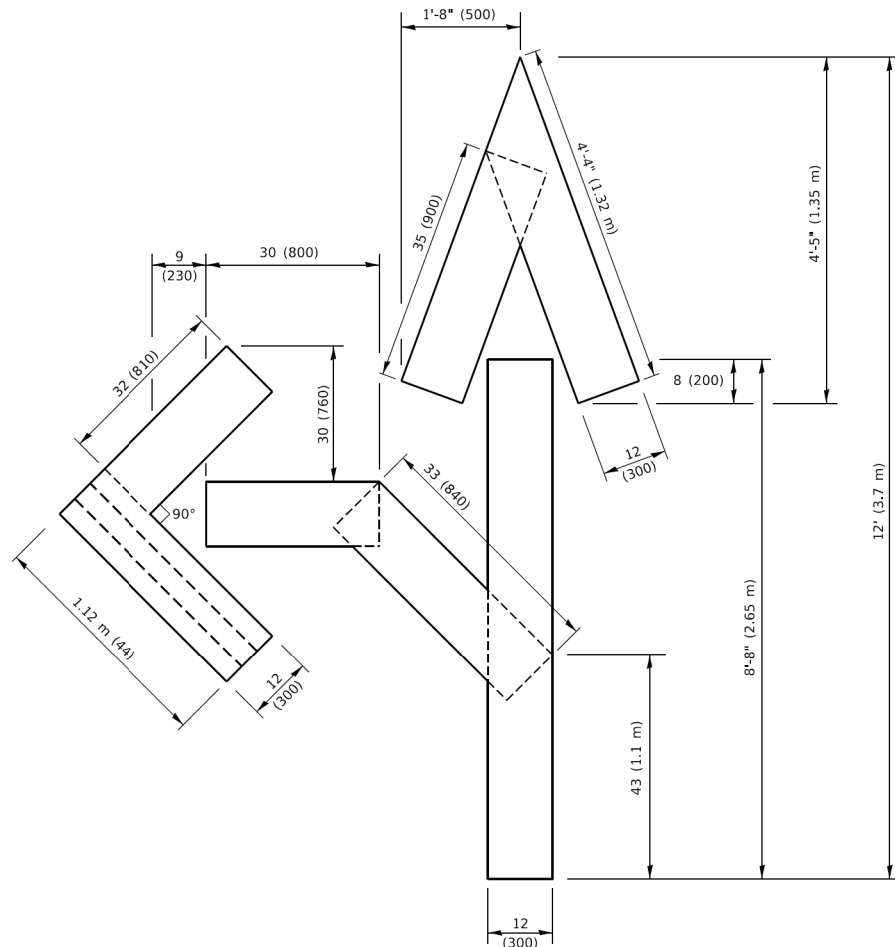
**QUANTITY**

4 (100) LINE = 45.5 ft. (13.9 m)  
15.2 sq. ft. (1.41 sq. m)



**QUANTITY**

4 (100) LINE = 64.1 ft. (19.5 m)  
21.4 sq. ft. (1.99 sq. m)

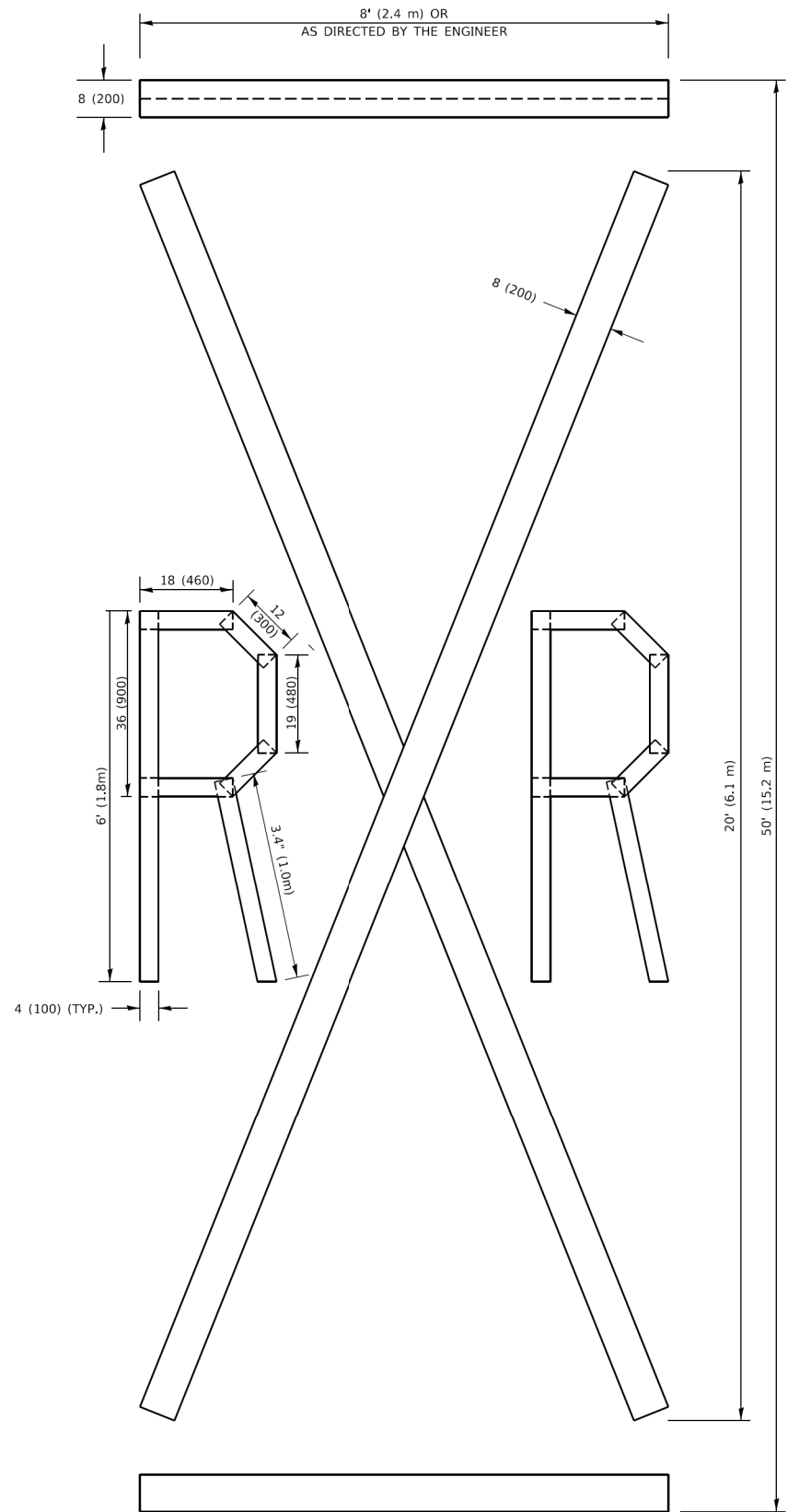


**QUANTITY**

4 (100) LINE = 82.5 ft. (25.1 m)  
27.5 sq. ft. (2.53 sq. m)

**NOTE:**

ALL QUANTITIES OF PLACEMENT ARE REPRESENTED  
IN LINEAR FEET OF 4" LINES TO MATCH THE  
4" TEMPORARY TAPE PAY ITEM AND REPRESENTS  
THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



**QUANTITY**

4 (100) LINE = 225.9 ft. (68.9 m)  
75.3 sq. ft. (6.99 sq. m)

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



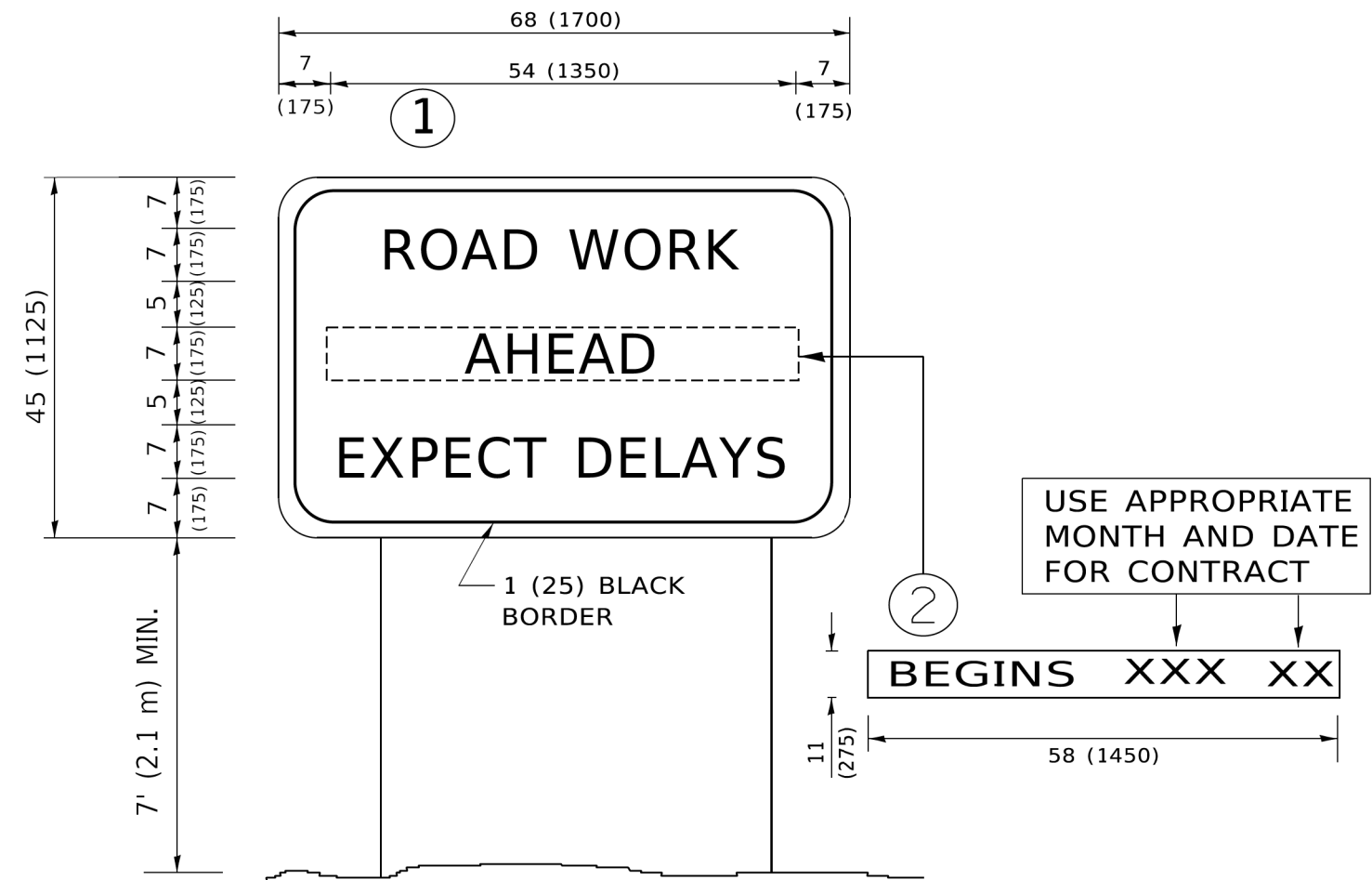
USER NAME = footemj	DESIGNED -	REVISED - T. RAMMACHER 03-02-98
	DRAWN -	REVISED - E. GOMEZ 08-28-00
PLOT SCALE = 50.0068 ' / in.	CHECKED -	REVISED - E. GOMEZ 08-28-00
PLOT DATE = 3/4/2019	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SHORT TERM PAVEMENT MARKING  
LETTERS AND SYMBOLS**

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

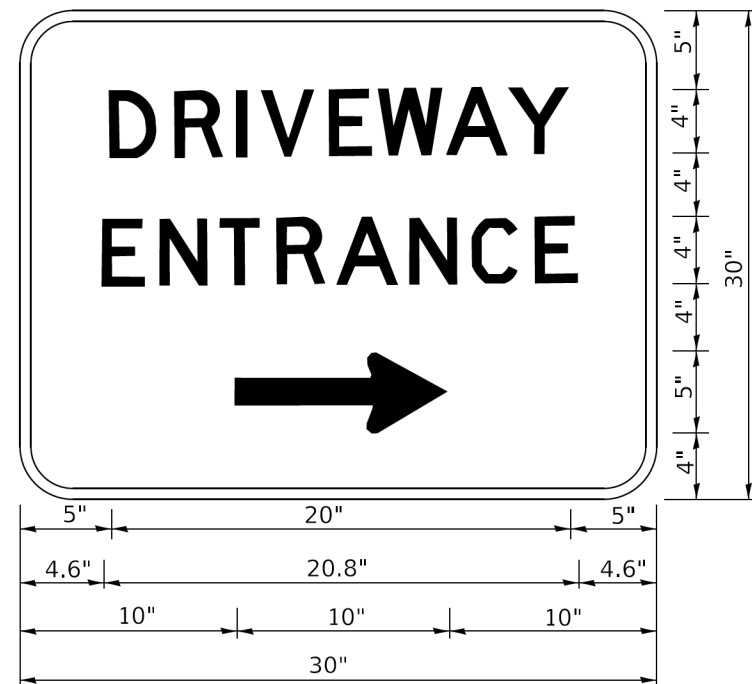
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0041	24-00116-00-R5	MCHENRY	31	28
TC-16		CONTRACT NO. 61L94		
		ILLINOIS	FED. AID PROJECT	



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN①WITH INSTALLED PANEL②ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL②SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

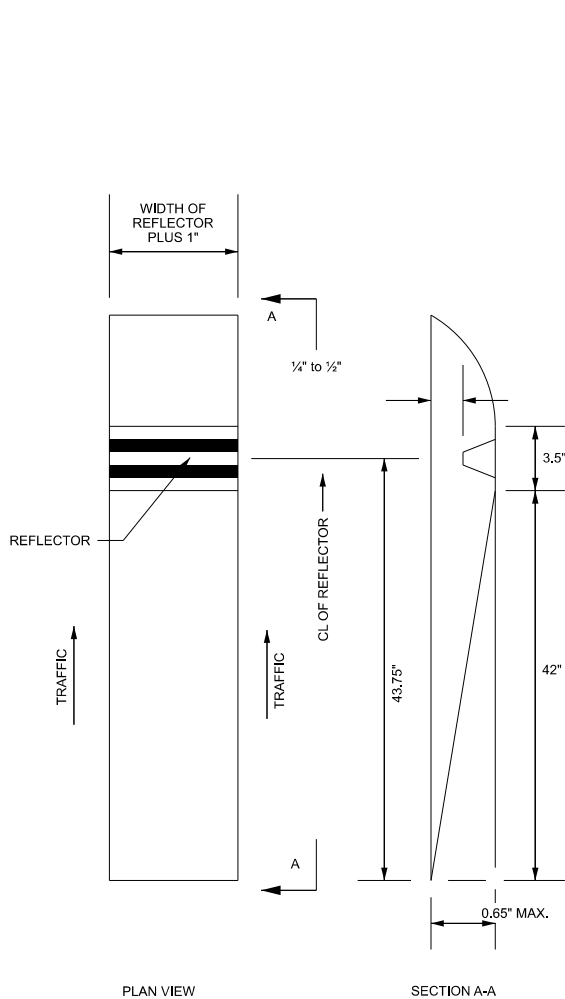
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)  
UNLESS OTHERWISE SHOWN.



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED  
"DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

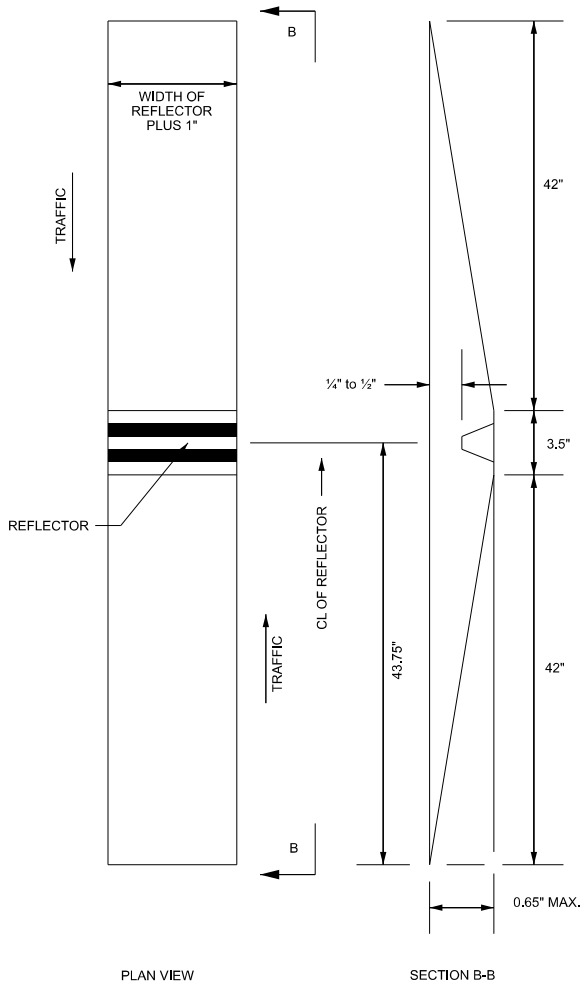
1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE  
PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN)  
SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY  
AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE  
FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".



ONE-WAY RECESSED REFLECTIVE PAVEMENT MARKER

INSTALLATION NOTES:

1. SAWCUT TO DIMENSIONS SHOWN.
2. SAWCUT AREAS TO BE DRY AND FREE OF MATERIAL THAT ADVERSELY AFFECTS THE ADHESIVE BOND.
3. INSTALL THE REFLECTOR WITH AN APPROVED TWO-COMPONENT EPOXY ADHESIVE. EPOXY SHOULD NOT OBSCURE OR BLOCK THE LENS.
4. INSTALL TOP OF REFLECTOR 1/2" TO 1/4" BELOW THE PAVEMENT SURFACE.



TWO-WAY RECESSED REFLECTIVE PAVEMENT MARKER

GENERAL NOTES:

1. INSTALLATION SHALL CONFORM TO THE LATEST VERSION OF DISTRICT ONE DETAIL TC-11 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTENT) FOR MARKER PLACEMENT ONLY.
2. ANY REFERENCE TO RAISED REFLECTIVE PAVEMENT MARKER IN DISTRICT ONE DETAIL TC-11 SHALL BE INTERPRETED TO MEAN RECESSED REFLECTIVE PAVEMENT MARKERS.



USER NAME	mdavison	DESIGNED -	CJS/MJS	REVISED -	
		DRAWN -	MJD	REVISED -	
PLOT SCALE	2,000' = 1 in.	CHECKED -	SPC	REVISED -	
PLOT DATE	8/31/2025	DATE -		REVISED -	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

RECESSED REFLECTIVE  
PAVEMENT MARKER DETAILS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0041	24-00116-00-R5	MCHENRY	31	31
CONTRACT NO. 61L94				
ILLINOIS FED. AID PROJECT				