

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAU RATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
0281	22-00076-00-RS	WILL	22	1

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT AN6B(140)

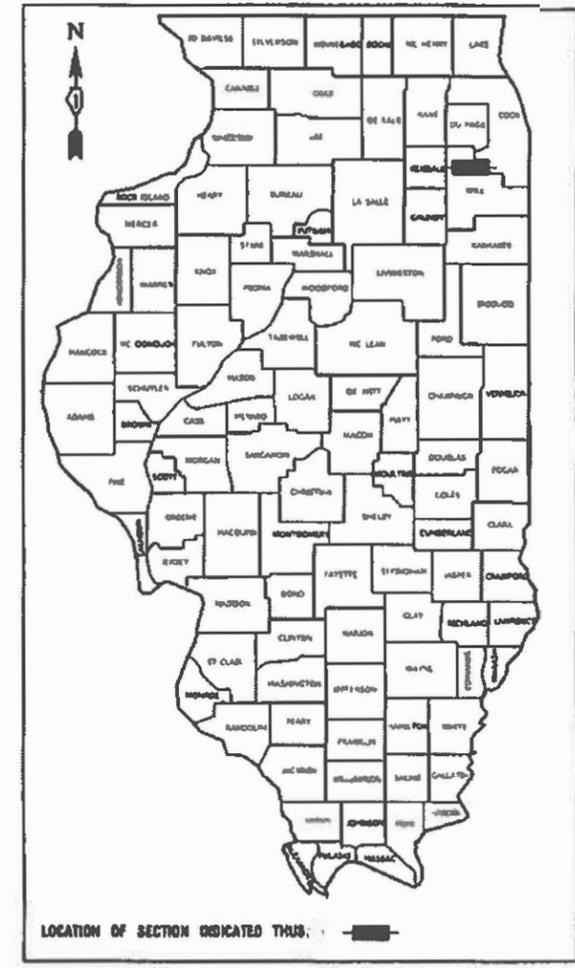
CONTRACT NO. 61J61

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

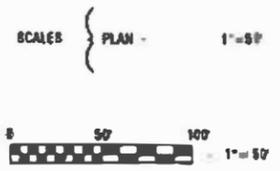
FAU ROUTE 0281 (NORMANTOWN ROAD)
CROSSROADS PARKWAY TO MONTROSE DRIVE
ROADWAY RESURFACING
SECTION NO.: 22-00076-00-RS
PROJECT NO.: AN6B(140)
VILLAGE of ROMEOVILLE
WILL COUNTY
JOB NO.: C-91-041-23

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR HIGHWAY STANDARDS, SEE SHEET NO. 2

NORMANTOWN ROAD	
CROSSROADS PARKWAY TO MONTROSE DRIVE	
2019 ADT-	6,850
POSTED SPEED LIMIT-	30 MPH
FUNCTIONAL CLASSIFICATION-	MAJOR COLLECTOR

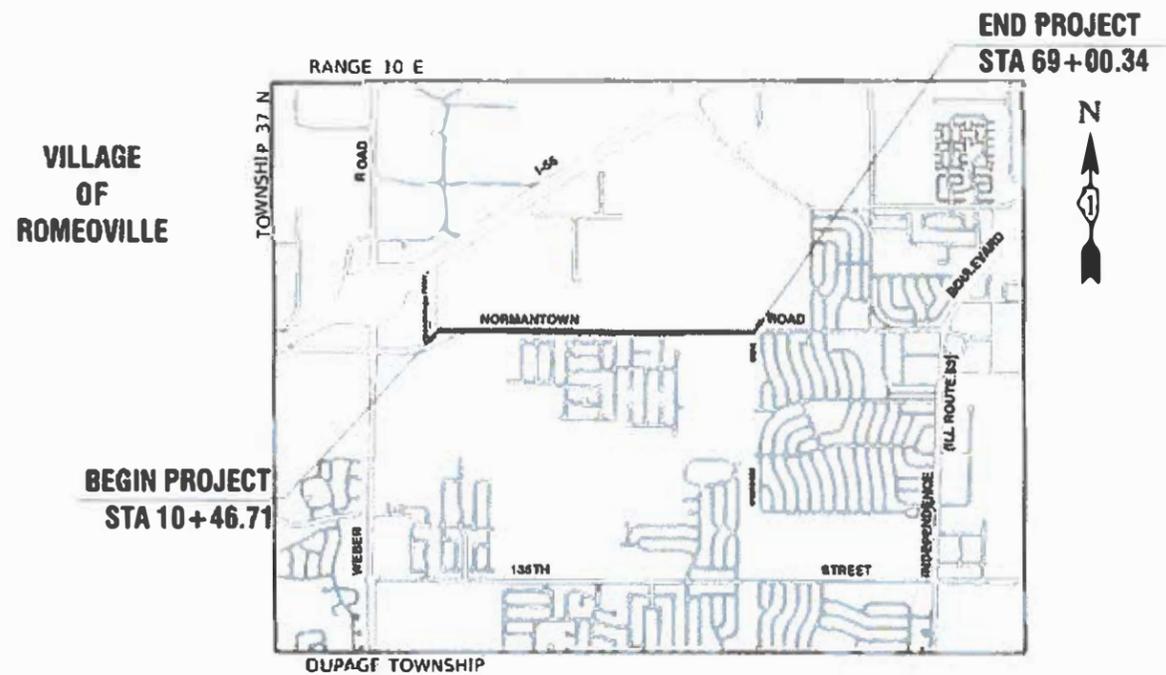


I.D.O.T. FEDERAL AID PROGRAM ENGINEER: CARMEN RAMOS, PE, SCHAMBURG, IL
CONSULTANTS ROBINSON ENGINEERING, LTD 708 331 6700



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



LOCATION MAP
NOT TO SCALE

GROSS AND NET LENGTH = 5,653.29 FEET = 1.11 MILES

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	
APPROVED	3-3-23
<i>[Signature]</i> VILLAGE OF ROMEOVILLE, MAYOR	
PASSED	APRIL 6, 2023
<i>[Signature]</i> DISTRICT ENGINEER OF LOCAL ROADS & STREETS	
RELEASING FOR BID BASED ON LIMITED REVIEW	APRIL 7, 2023
<i>[Signature]</i> REGIONAL ENGINEER	



WILLIAM P. DOLAN
REGISTERED PROFESSIONAL ENGINEER
[Signature]
3-3-23

PRINTED BY THE AUTHORITY OF
THE STATE OF ILLINOIS

CONTRACT NO. 61J61

INDEX OF SHEETS

1	COVER SHEET
2	INDEX OF SHEETS, HIGHWAY STANDARDS AND GENERAL NOTES
3-5	SUMMARY OF QUANTITIES
6	TYPICAL CROSS SECTIONS
7-8	ALIGNMENT, TIES AND BENCHMARKS
9-11	PROPOSED IMPROVEMENT PLAN
12-14	PAVEMENT MARKING PLAN
15-22	IDOT DISTRICT 1 STANDARDS

HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424011-04	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701001-02	OFF ROAD OPERATIONS, 2L, 2W, MORE THAN 15'(4.5m) AWAY
701006-05	OFF ROAD OPERATIONS, 2L, 2W, 15'(4.5m) TO 24"(600mm) FROM PAVEMENT EDGE
701011-04	OFF ROAD MOVING OPERATIONS, 2L,2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701502-09	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
886001-01	DETECTOR LOOP INSTALLATIONS

DISTRICT ONE DETAILS

BD-22	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
BD-32	BUTT JOINTS AND HMA TAPER
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
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
TS-07	DETECTOR LOOP INSTALLATION DETAIL FOR ROADWAY RESURFACING

GENERAL NOTES

- ITEMS OF WORK LISTED IN THE SUMMARY OF QUANTITIES NOT SPECIFICALLY CALLED OUT ON THE PLANS SHALL BE PERFORMED AS DIRECTED BY THE ENGINEER.
- THE ROBINSON ENGINEERING, LTD. FIELD OFFICE (708-331-6700), AND THE PUBLIC WORKS DIRECTOR, AT THE VILLAGE OF ROMEOVILLE, SHALL BE NOTIFIED THREE (3) WORKING DAYS BEFORE CONSTRUCTION BEGINS.
- BEFORE STARTING ANY EXCAVATION THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 AND (312) 744-7000 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. (48 HOUR NOTIFICATION REQUIRED)
- UTILITIES INDICATED ON THE PLANS ARE PROVIDED FOR THE CONTRACTOR'S USE AND ARE BASED UPON INFORMATION AVAILABLE AT THE TIME OF THE ADVERTISEMENT FOR BIDS. THE OWNER AND ENGINEER DO NOT GUARANTEE THE ACCURACY OF UTILITY INFORMATION.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- THE THICKNESS OF HMA MIXTURE STATED IN THE SPECIFICATIONS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA SURFACE IS PLACED.
- ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DITCHES, GUTTERS OR OTHER DRAINAGE STRUCTURES SHALL BE REMOVED BY THE END OF EACH DAY BY THE CONTRACTOR.
- CLASS D PATCHING QUANTITIES FOR THIS CONTRACT SHALL BE PERFORMED AT THE DIRECTION OF THE ENGINEER AFTER PAVEMENT MILLING. PATCHES WITHIN THE ROADWAY SHALL BE PERFORMED AFTER MILLING.
- 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.
- NO PAVEMENT PATCHING SHALL BE PERMITTED AFTER FRIDAY AT 3:00 PM OF EACH AND EVERY WEEK AND NO HOLES WILL BE ALLOWED TO REMAIN OPEN OVERNIGHT OR OVER THE WEEKEND.
- ALL EQUIPMENT SHALL BE REMOVED OFF THE VILLAGE STREETS DURING ALL HOLIDAY WEEKENDS AS COORDINATED WITH THE VILLAGE.
- HMA PAVING SHALL BE PERFORMED WITH HOT JOINTS.
- THE CONTRACTOR SHALL CONTACT KALPANA KANNAN-HOSADURGA, THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR, AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- ENBRIDGE WILL REQUIRE A "NO STOPPING NO VIBE ZONE" (VIBRATORY FUNCTION TURNED OFF) WITHIN 20 FEET OF THE PIPELINE WHICH IS LOCATED AT APPROXIMATE STATION 67+30. ANY CURB AND GUTTER REMOVAL OVER THE PIPELINE SHALL BE UNDER THE ENBRIDGE FIELD REPRESENTATIVE'S SUPERVISION. A ONE CALL TICKET SHOULD BE PLACED PRIOR TO THE WORK STARTING SO THE ENBRIDGE FIELD REPRESENTATIVE CAN BE PRESENT. RAY ALFORD, ENBRIDGE FIELD REPRESENTATIVE, SHOULD BE CONTACTED AT 219-765-5847.

FILE NAME = 22R0505-INDX-01 - P01	USER NAME =	DESIGNED -- MPN	REVISED --	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	NORMANTOWN ROAD ROADWAY RESURFACING INDEX OF SHEETS, STANDARDS & GENERAL NOTES			F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -- WPD	REVISED --		0281	22-00076-00-RS	WILL	22	2			
	PLOT SCALE =	DRAWN -- RG	REVISED --		CONTRACT NO. 61J61							
	PLOT DATE = 04-03-2023	CHECKED -- AG	REVISED --		SCALE: NONE	SHEET NO. 2 OF 22 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT AN6B(140)		

SUMMARY OF QUANTITIES							FED 80%	FED 80%	FED 80%
							VILLAGE 20%	VILLAGE 20%	VILLAGE 20%
							ROADWAY	SAFETY	TRAINEES
S.P.	S.I.	CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE			
							0005	0021	0042
		28000510	INLET FILTERS	EACH	33	33			
		31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	37		37		
		35800100	PREPARATION OF BASE	SQ YD	220	220			
		35800200	AGGREGATE BASE REPAIR	TON	75	75			
**		40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	162	162			
		40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	18,455	18,455			
BDE		40600370	LONGITUDINAL JOINT SEALANT	FOOT	11,710	11,710			
		40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	41	41			
		40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	189	189			
D1		40603200	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50	TON	1,128	1,128			
D1		40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	2,300	2,300			
		42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	326		326		
**		42400800	DETECTABLE WARNINGS	SQ FT	60		60		
		44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	27,340	27,340			
**		44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	413	413			
		44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	3,024	3,024			

S.I. SPECIALTY ITEMS

FILE NAME = 22R0505-QUAN-01 - P01	USER NAME =	DESIGNED -- MPN	REVISED --	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	NORMANTOWN ROAD ROADWAY RESURFACING SUMMARY OF QUANTITIES	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	CHECKED -- WD	REVISIED --	0281			22-00076-00-RS	WILL	22	3		
	PLOT SCALE =	DRAWN -- BG	REVISED --			CONTRACT NO. 61J61					
	PLOT DATE = 04-03-2023	CHECKED -- AG	REVISED --			SCALE: NONE	SHEET NO. 3 OF 22 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS

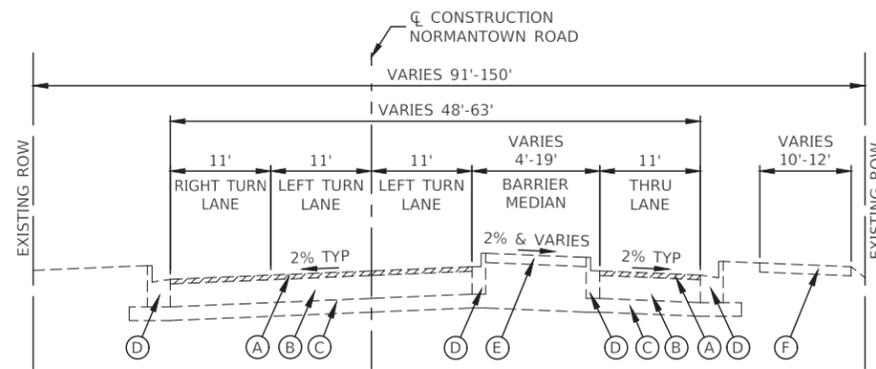
SUMMARY OF QUANTITIES						FED 80%	FED 80%	FED 80%
						VILLAGE 20%	VILLAGE 20%	VILLAGE 20%
						ROADWAY	SAFETY	TRAINEES
S.P.	S.I.	CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
						0005	0021	0042
		44201761	CLASS D PATCHES, TYPE I, 10 INCH	SQ YD	2	2		
		44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	7	7		
		44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	17	17		
		44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	191	191		
		60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	23	23		
		67100100	MOBILIZATION	LSUM	1	1		
		70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	LSUM	1	1		
		70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	1	1		
		70300100	SHORT TERM PAVEMENT MARKING	FOOT	3,553		3,553	
		70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	1,185		1,185	
	*	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	558		558	
	*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	18,844		18,844	
	*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	2,886		2,886	
	*	78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	155		155	
	*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	2,815		2,815	
	*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	88		88	

S.I. SPECIALTY ITEMS

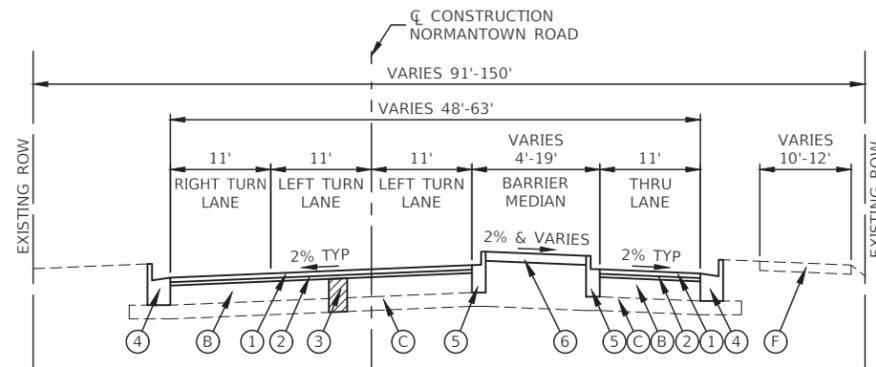
FILE NAME = 22R0505-QUAN-01 - P02	USER NAME =	DESIGNED -- MPN	REVISED --	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	NORMANTOWN ROAD ROADWAY RESURFACING SUMMARY OF QUANTITIES	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	CHECKED -- WD	REVISED --	0281			22-00076-00-RS	WILL	22	4		
	PLOT SCALE =	DRAWN -- BG	REVISED --			CONTRACT NO. 61J61					
	PLOT DATE = 04-03-2023	CHECKED -- AG	REVISED --			SCALE: NONE	SHEET NO. 4 OF 22 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS

SUMMARY OF QUANTITIES							FED 80%	FED 80%	FED 80%
							VILLAGE 20%	VILLAGE 20%	VILLAGE 20%
							ROADWAY	SAFETY	TRAINEES
S.P.	S.I.	CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE			
						0005	0021	0042	
D1	*	88600600	DETECTOR LOOP REPLACEMENT	FOOT	260	260			
**		Z0004518	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 5"	SQ YD	413	413			
**		Z0017400	DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED	EACH	38	38			
**		Z0017700	DRAINAGE & UTILITY STRUCTURES TO BE RECONSTRUCTED	EACH	1	1			
D1		Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	72	72			
**		X4402020	CONCRETE MEDIAN SURFACE REMOVAL	SQ FT	23	23			
**		X4404700	SIDEWALK REMOVAL (SPECIAL)	SQ FT	326		326		
**		X6060052	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (SPECIAL)	FOOT	352	352			
**		X6064200	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (SPECIAL)	FOOT	2,672	2,672			
**		XX006343	SEEDING (COMPLETE)	SQ YD	515	515			

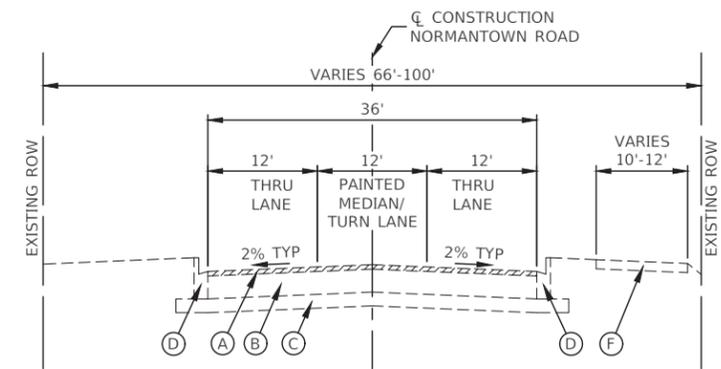
S.I. SPECIALTY ITEMS



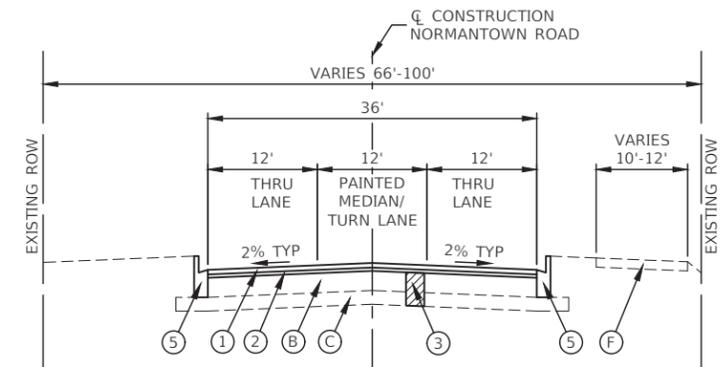
EXISTING TYPICAL SECTION
STA 10+46.71 TO STA 14+57.68



PROPOSED TYPICAL SECTION
STA 10+46.71 TO STA 14+57.68



EXISTING TYPICAL SECTION
STA 14+57.68 TO STA 69+00.34



PROPOSED TYPICAL SECTION
STA 14+57.68 TO STA 69+00.34

EXISTING LEGEND

- (A) HOT-MIX ASPHALT SURFACE REMOVAL, 2"
- (B) EXISTING HOT-MIX ASPHALT PAVEMENT, TO REMAIN
- (C) AGGREGATE SUBGRADE
- (D) COMBINATION CURB AND GUTTER REMOVAL (AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER)
- (E) CONCRETE MEDIAN SURFACE REMOVAL (AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER)
- (F) EXISTING HOT-MIX ASPHALT MUTLI-USE PATH

PROPOSED LEGEND

- (1) HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 1 1/2"
- (2) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4"
- (3) CLASS D PATCHES PREPARATION OF BASE AGGREGATE BASE REPAIR (AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER)
- (4) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER)
- (5) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER)
- (6) CONCRETE MEDIAN SURFACE, 4 INCH (AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER)

NOTE

LONGITUDINAL JOINT SEALANT SHALL BE PLACED ON THE POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50 PRIOR TO THE SURFACE COURSE.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ Ndes	QMP
ROADWAY RESURFACING		
HOT-MIX ASPHALT SURFACE COURSE, 1L-9.5, MIX "D", N50, 1 1/2"	4% @ 50 Gyr.	LR 1030-2
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, 1L-4.75, N50, 3/4"	3.5% @ 50 Gyr.	LR 1030-2
HMA DRIVEWAY PAVEMENT, 5"		
HOT-MIX ASPHALT SURFACE COURSE, 1L-9.5, MIX "D", N50, 2"	4% @ 50 Gyr.	LR 1030-2
HOT-MIX ASPHALT BINDER COURSE, 1L-19.0, N50, 3"	4% @ 50 Gyr.	LR 1030-2
PATCHING		
CLASS D PATCHES (HMA BINDER 1L-19mm), 10"	4% @ 70 Gyr.	LR 1030-2
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA) PER LR1030-2		

NOTES:

1. THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE IS 112 LBS/SQ/IN.
2. ALL PATCHING OPERATIONS SHALL TAKE PLACE AFTER SURFACE MILLING HAS BEEN COMPLETED.
3. 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.

FILE NAME = 22R0505-TYPX-01 - P01

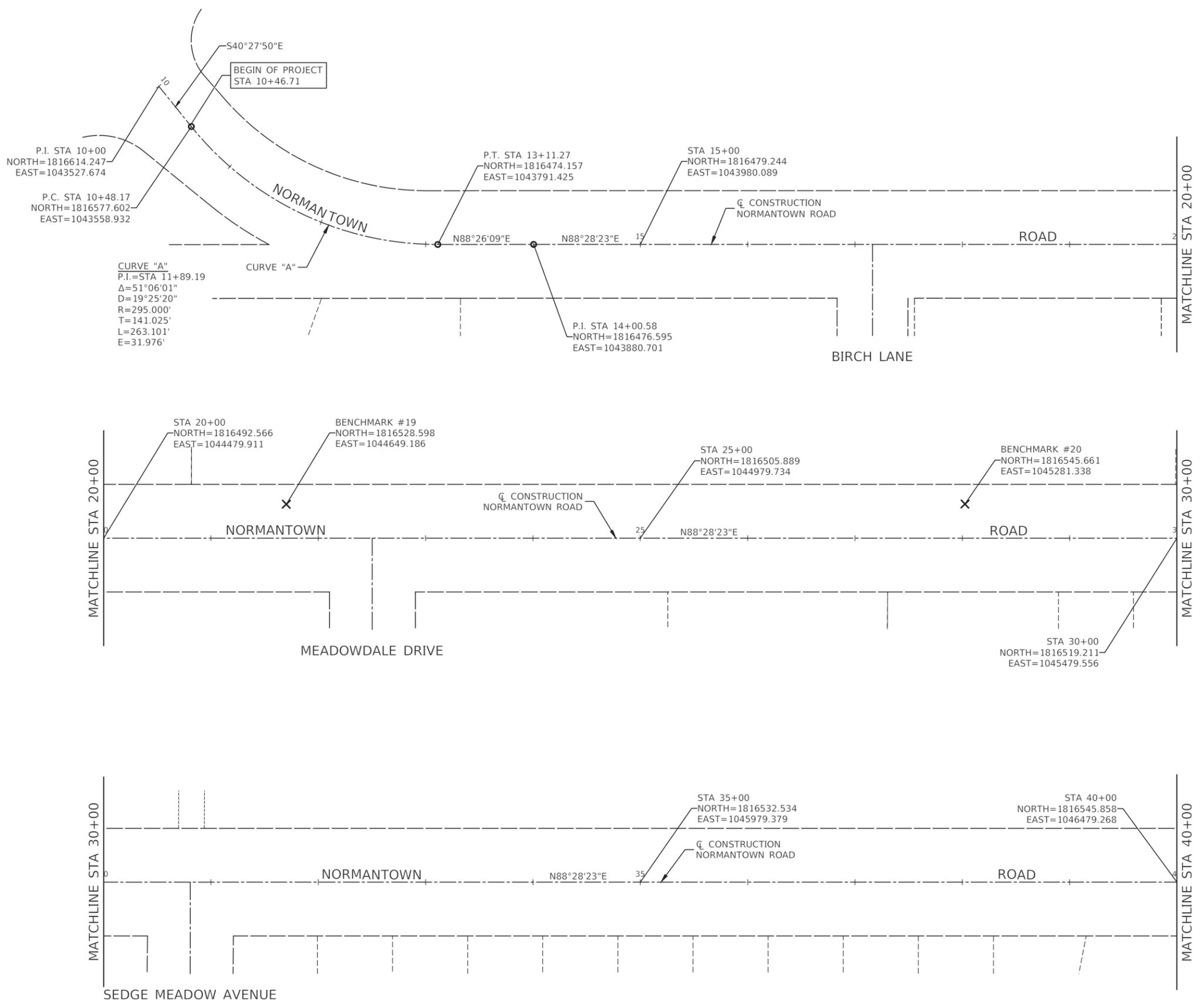
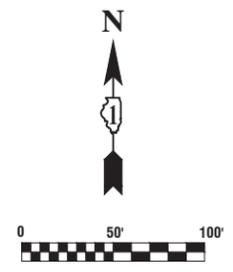
USER NAME =	DESIGNED -- MPN	REVISED --
	CHECKED --	REVISED --
PLOT SCALE =	DRAWN -- ACAD	REVISED --
PLOT DATE = 04-03-2023	CHECKED -- ACAD	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORMANTOWN ROAD
ROADWAY RESURFACING
TYPICAL CROSS SECTIONS

SCALE: SHEET NO. 6 OF 22 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0281	22-00076-00-RS	WILL	22	6
CONTRACT NO. 61J61				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT AN6B(140)				



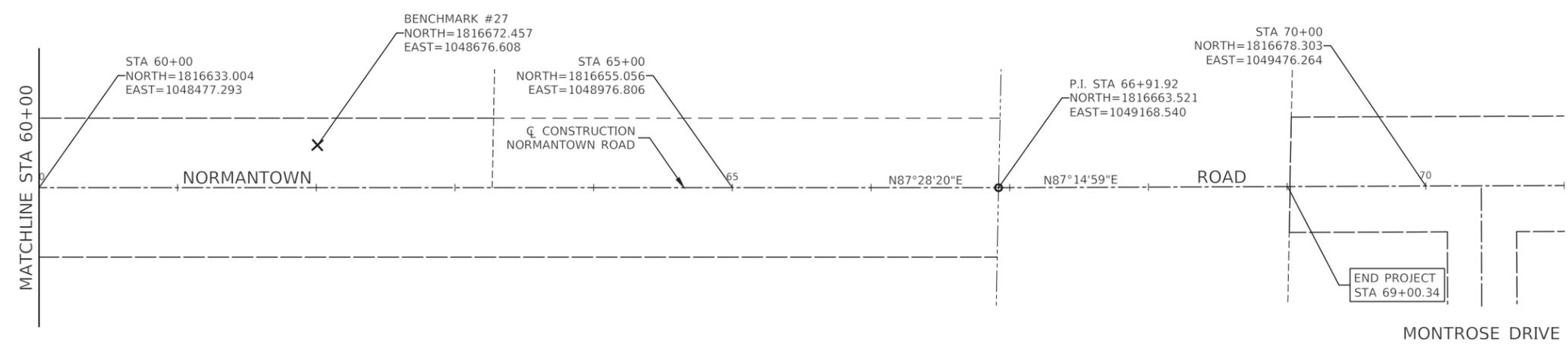
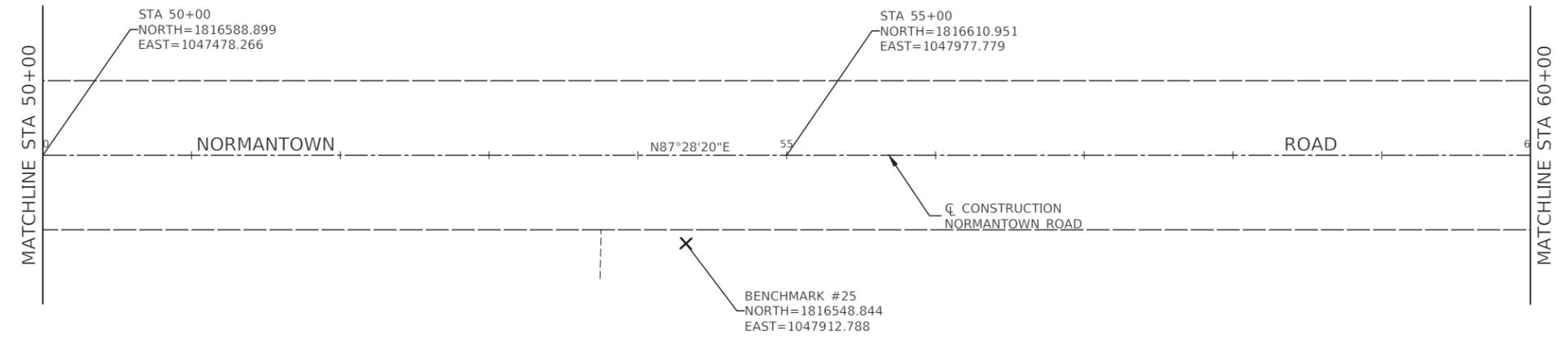
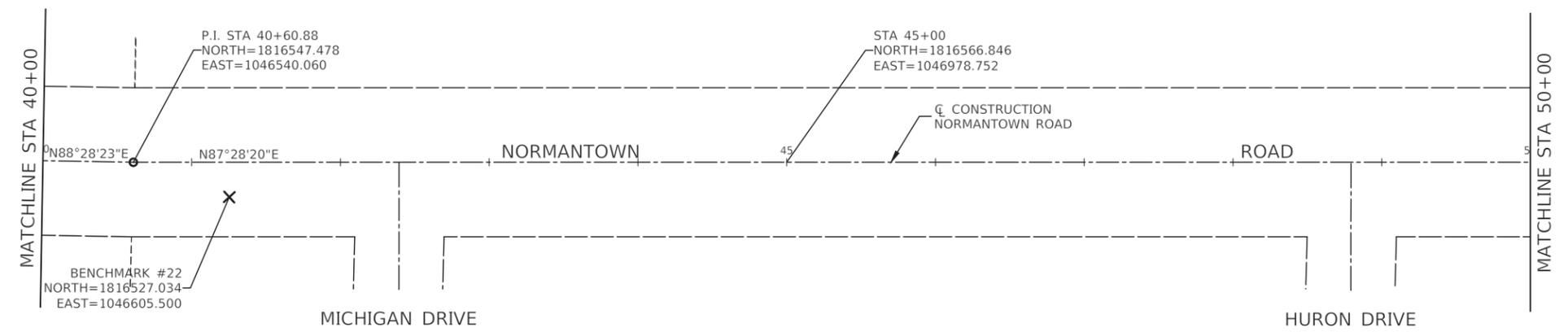
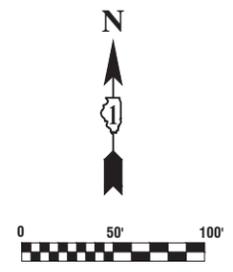
- NOTES**
- COORDINATES ARE BASED ON ILLINOIS STATE PLANE EASTERN ZONE NORTH AMERICAN DATUM 1983
 - SURVEY FEET UNITS WERE USED.
 - ALL ELEVATIONS REFER TO NAVD88 DATUM.

BENCHMARKS

BENCHMARK #19
RR SPIKE IN EAST FACE OF PP AT NORTHWEST COR NORMANTOWN RD & MEADOWDALE DR.
ELEV=642.74

BENCHMARK #20
RR SPIKE IN EAST FACE OF PP ON NORTH SIDE NORMANTOWN RD, 4TH PP WEST OF SEDGE MEADOW AVE.
ELEV=644.88

FILE NAME = 22R0505-TIES-01 - P01	USER NAME =	DESIGNED -- MPN	REVISED --	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	NORMANTOWN ROAD ROADWAY RESURFACING ALIGNMENT, TIES AND BENCHMARKS			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
	PLOT SCALE =	DRAWN -- BG	REVISED --		SCALE: 1"=50'	SHEET NO. 7	OF 22 SHEETS	STA. 10+00	TO STA. 40+00	0281	22-00076-00-RS	WILL	22	7
	PLOT DATE = 04-03-2023	CHECKED -- AG	REVISED --		CONTRACT NO. 61J61									
					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT AN6B(140)									



NOTES

- COORDINATES ARE BASED ON ILLINOIS STATE PLANE EASTERN ZONE NORTH AMERICAN DATUM 1983
- SURVEY FEET UNITS WERE USED.
- ALL ELEVATIONS REFER TO NAVD88 DATUM.

BENCHMARKS

- BENCHMARK #22**
CROSS ON TOP OF NORTH SIDE OF CONC BASE FOR LIGHT POLE ON SOUTH SIDE NORMANTOWN RD, 1ST LIGHT POLE WEST OF MICHIGAN DR. ELEV=643.75
- BENCHMARK #25**
CROSS ON TOP OF SOUTHEAST COR OF TRAFFIC SIGNAL HH AT SOUTHEAST COR NORMANTOWN RD & WEST ENTRANCE TO BEVERLY SKOFF ELEMENTARY SCHOOL. ELEV=648.96
- BENCHMARK #27**
RR SPIKE IN NORTH FACE OF PP ON NORTH SIDE OF NORMANTOWN RD, 2ND PP EAST OF WEST ENTRANCE TO BEVERLY SKOFF ELEMENTARY SCHOOL. ELEV=651.98

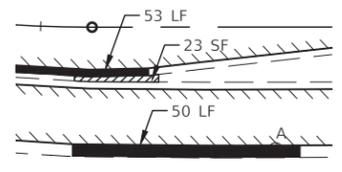
FILE NAME = 22R0505-TIES-01 - P02	USER NAME =	DESIGNED -- MPN	REVISED --
		CHECKED --	REVISED --
	PLOT SCALE =	DRAWN -- BG	REVISED --
	PLOT DATE = 04-03-2023	CHECKED -- AG	REVISED --

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

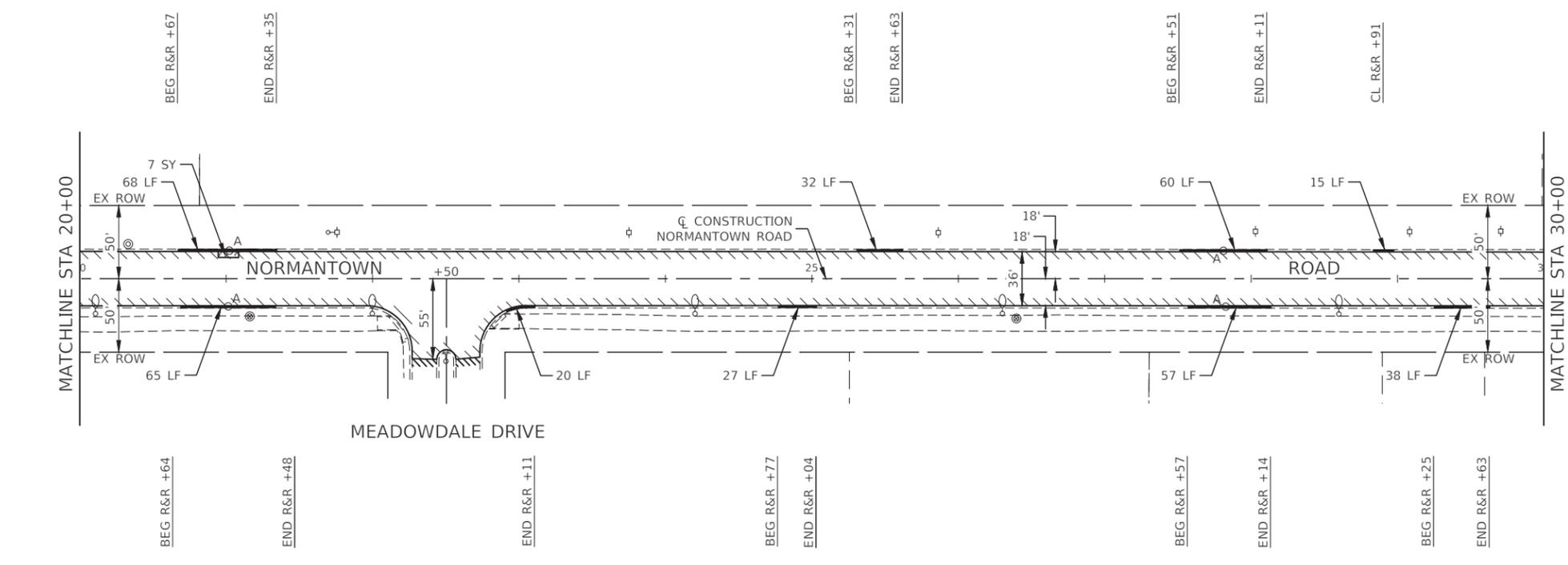
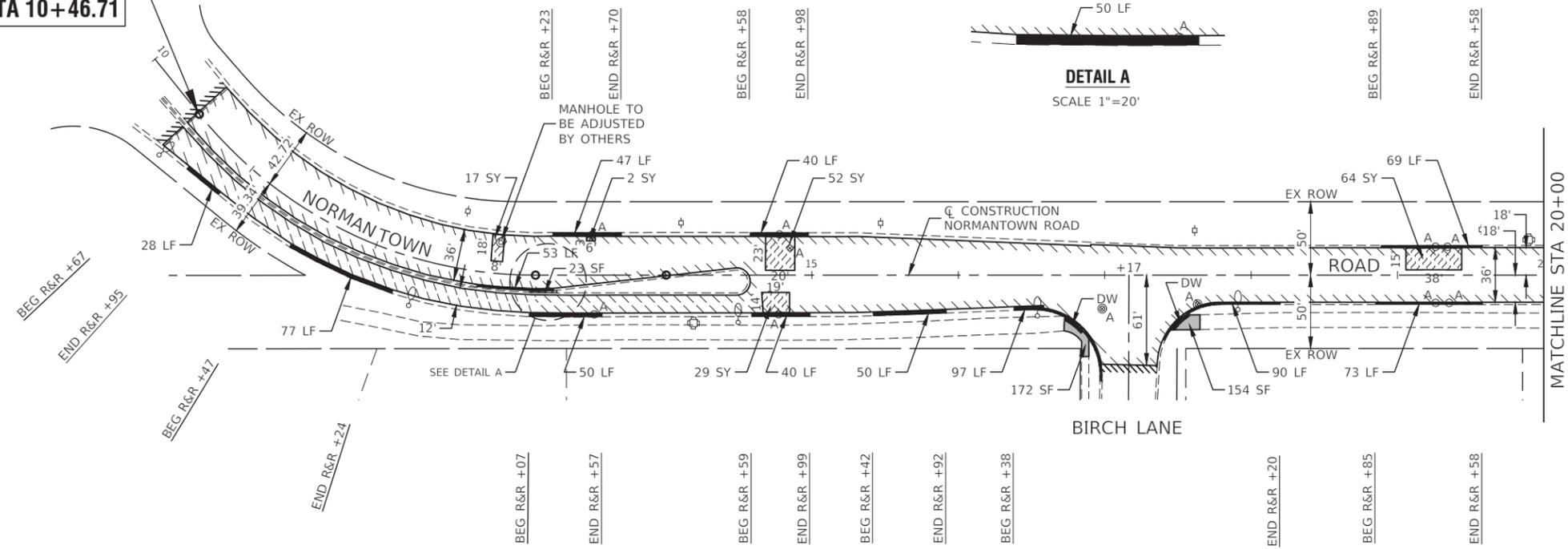
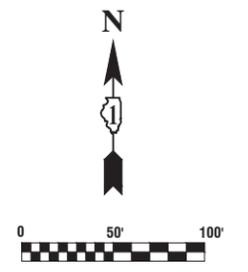
NORMANTOWN ROAD ROADWAY RESURFACING ALIGNMENT, TIES AND BENCHMARKS			
SCALE: 1"=50'	SHEET NO. 8 OF 22 SHEETS	STA. 40+00 TO STA. 70+00	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0281	22-00076-00-RS	WILL	22	8
CONTRACT NO. 61J61				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT AN6B(140)				

**BEGIN IMPROVEMENT
STA 10+46.71**



DETAIL A
SCALE 1"=20'



- LEGEND**
- HMA SURFACE REMOVAL, 2" POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4" HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 1 1/2"
 - SIDEWALK REMOVAL (SPECIAL) PCC SIDEWALK 5 INCH SUBBASE GRANULAR MATERIAL, TYPE B, 4"
 - CLASS D PATCHES, 10" PREPARATION OF BASE AGGREGATE BASE REPAIR
 - DRIVEWAY PAVEMENT REMOVAL HMA DRIVEWAY PAVEMENT, 5"
 - CONCRETE MEDIAN SURFACE REMOVAL CONCRETE MEDIAN SURFACE, 4 INCH (SEE DETAIL A)
 - DETECTABLE WARNINGS - DW
 - COMBINATION CONCRETE CURB AND GUTTER REMOVAL COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (SPECIAL) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (SPECIAL) (SEE NOTES 2 & 3)
 - "A" DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED
 - ENBRIDGE PIPE LINE - 34" CRUDE OIL PIPE LINE
 - EXISTING DETECTOR LOOP
 - HMA SURFACE REMOVAL - BUTT JOINT
 - BEG R&R +XX BEGIN STATION FOR CURB AND GUTTER REMOVAL AND REPLACEMENT
 - END R&R +XX END STATION OF CURB AND GUTTER REMOVAL AND REPLACEMENT
 - CL R&R +XX CENTER STATION OF CURB AND GUTTER REMOVAL AND REPLACEMENT (UNDER 20 LINEAL FEET)

- NOTE:**
1. ALL SIDEWALK RAMP WILL BE IN ACCORDANCE WITH THE HIGHWAY STANDARDS REFERENCED ON SHEET 2.
 2. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 EXISTS AROUND THE BARRIER MEDIAN AT THE WEST END OF PROJECT, IN DRIVEWAY LOCATIONS, AND ON THE EOP EAST OF STATION 16+58.19 ON THE SOUTH SIDE OF THE ROAD AND ON THE EOP EAST OF STATION 16+90.50 ON THE NORTH SIDE OF THE ROAD.
 3. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 EXISTS ON THE EOP FROM THE BEGINNING PROJECT LIMIT TO STATION 16+58 ON THE SOUTH SIDE OF THE ROAD AND ON THE EOP FROM THE BEGINNING PROJECT LIMIT TO STATION 16+90.50 ON THE NORTH SIDE OF THE ROAD.
 4. ENBRIDGE WILL REQUIRE A "NO STOPPING NO VIBE" ZONE (VIBRATORY FUNCTION TURNED OFF) WITHIN 20' OF THE ENBRIDGE PIPE LINE. SEE GENERAL NOTE #14 ON SHEET 2.

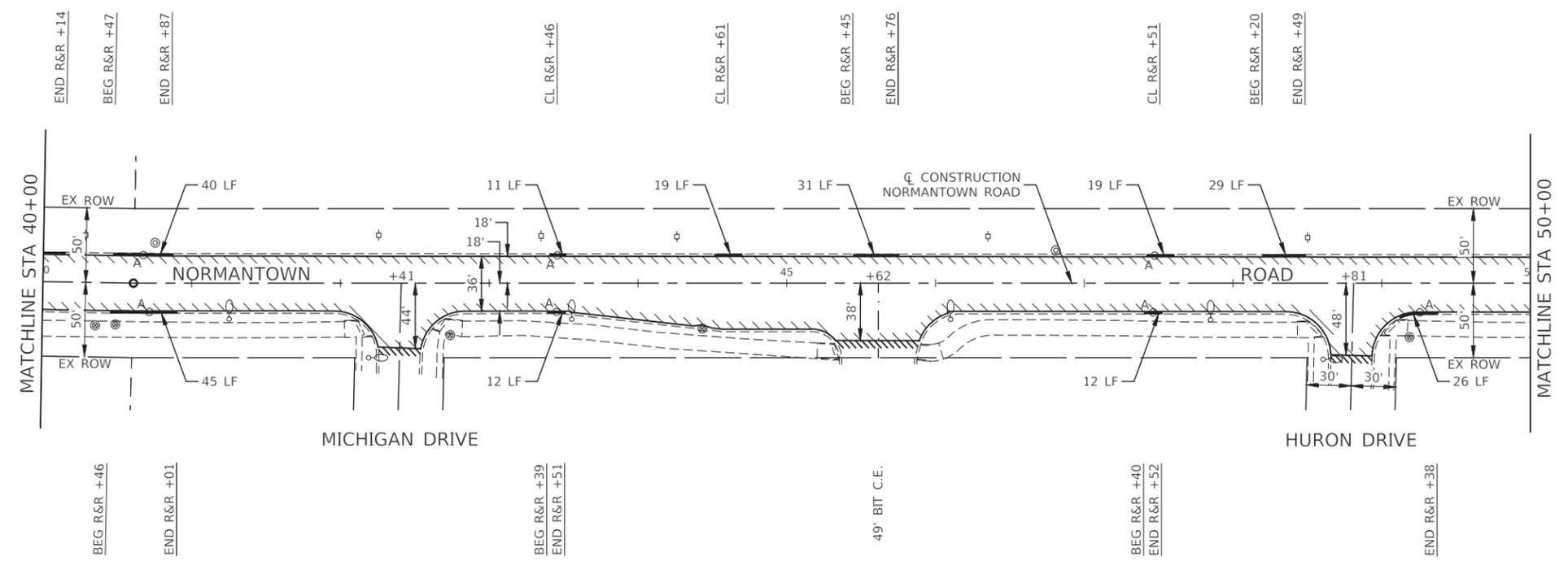
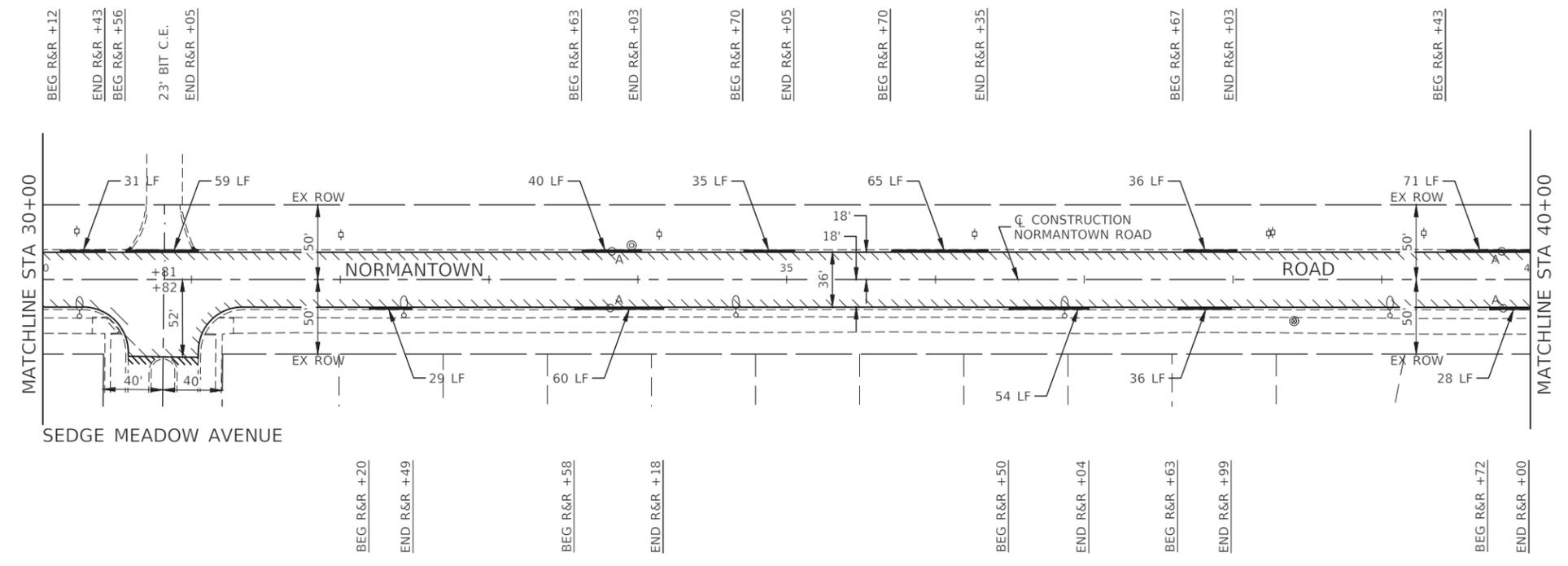
FILE NAME = 22R0505-PLAN-01 - P01

USER NAME =	DESIGNED -- MPN	REVISED --
	CHECKED --	REVISED --
PLOT SCALE =	DRAWN -- BG	REVISED --
PLOT DATE = 04-03-2023	CHECKED -- AG	REVISED --

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

NORMANTOWN ROAD ROADWAY RESURFACING PROPOSED IMPROVEMENT PLAN			
SCALE: 1"=50'	SHEET NO. 9 OF 22 SHEETS	STA. 10+46.71 TO STA. 30+00	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0281	22-00078-00-RS	WILL	22	9
CONTRACT NO. 61J61				
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	AN6B(140)	



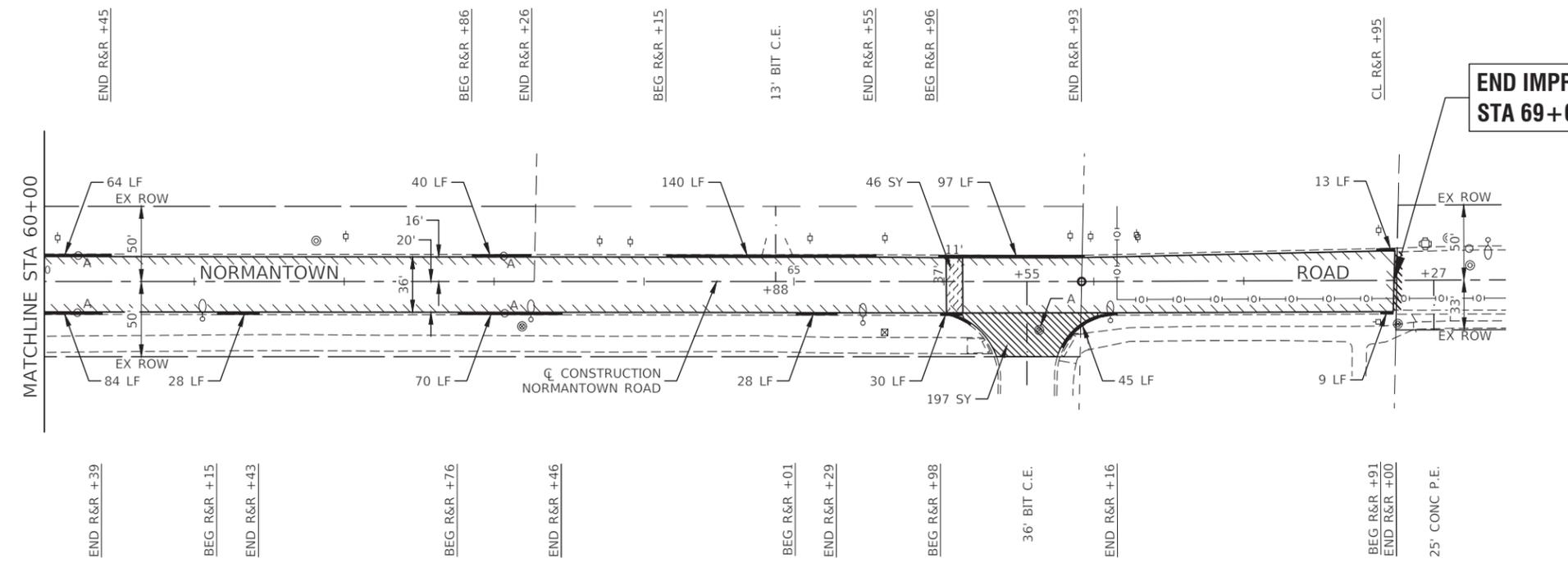
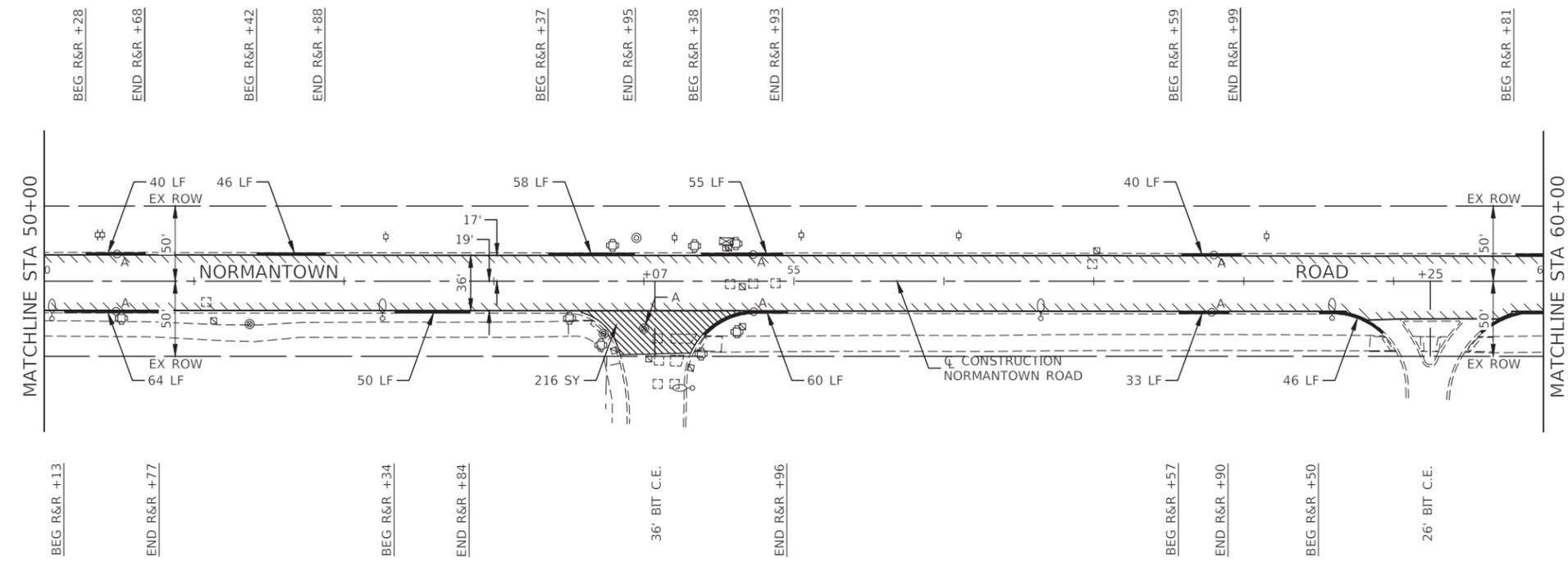
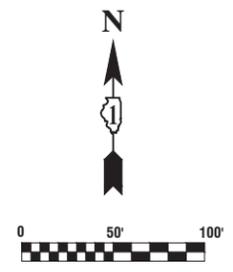
LEGEND

- HMA SURFACE REMOVAL, 2"
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4"
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 1 1/2"
- SIDEWALK REMOVAL (SPECIAL)
PCC SIDEWALK 5 INCH
SUBBASE GRANULAR MATERIAL, TYPE B, 4"
- CLASS D PATCHES, 10"
PREPARATION OF BASE
AGGREGATE BASE REPAIR
- DRIVEWAY PAVEMENT REMOVAL
HMA DRIVEWAY PAVEMENT, 5"
- CONCRETE MEDIAN SURFACE REMOVAL
CONCRETE MEDIAN SURFACE, 4 INCH
(SEE DETAIL A)
- DETECTABLE WARNINGS - DW
- COMBINATION CONCRETE CURB AND GUTTER REMOVAL
COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (SPECIAL)
COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (SPECIAL)
(SEE NOTES 2 & 3)
- "A"
DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED
- ENBRIDGE PIPE LINE - 34" CRUDE OIL PIPE LINE
- EXISTING DETECTOR LOOP
- HMA SURFACE REMOVAL - BUTT JOINT
- BEG R&R +XX BEGIN STATION FOR CURB AND GUTTER REMOVAL AND REPLACEMENT
- END R&R +XX END STATION OF CURB AND GUTTER REMOVAL AND REPLACEMENT
- CL R&R +XX CENTER STATION OF CURB AND GUTTER REMOVAL AND REPLACEMENT (UNDER 20 LINEAL FEET)

NOTE:

1. ALL SIDEWALK RAMP WILL BE IN ACCORDANCE WITH THE HIGHWAY STANDARDS REFERENCED ON SHEET 2.
2. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 EXISTS AROUND THE BARRIER MEDIAN AT THE WEST END OF PROJECT, IN DRIVEWAY LOCATIONS, AND ON THE EOP EAST OF STATION 16+58.19 ON THE SOUTH SIDE OF THE ROAD AND ON THE EOP EAST OF STATION 16+90.50 ON THE NORTH SIDE OF THE ROAD.
3. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 EXISTS ON THE EOP FROM THE BEGINNING PROJECT LIMIT TO STATION 16+58 ON THE SOUTH SIDE OF THE ROAD AND ON THE EOP FROM THE BEGINNING PROJECT LIMIT TO STATION 16+90.50 ON THE NORTH SIDE OF THE ROAD.
4. ENBRIDGE WILL REQUIRE A "NO STOPPING NO VIBE" ZONE (VIBRATORY FUNCTION TURNED OFF) WITHIN 20' OF THE ENBRIDGE PIPE LINE. SEE GENERAL NOTE #14 ON SHEET 2.

FILE NAME = 22R0505-PLAN-01 - P02 USER NAME = DESIGNED -- MPN CHECKED -- PLOT SCALE = DRAWN -- BG PLOT DATE = 04-03-2023 CHECKED -- AG	REVISED -- REVISED -- REVISED -- REVISED --	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	NORMANTOWN ROAD ROADWAY RESURFACING PROPOSED IMPROVEMENT PLAN	F.A.U. RTE. 0281 SECTION 22-00076-00-RS COUNTY WILL TOTAL SHEETS 22 SHEET NO. 10 CONTRACT NO. 61J61 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT AN6B(140)
SCALE: 1"=50'			SHEET NO. 10 OF 22 SHEETS	STA. 30+00 TO STA. 50+00



- ### LEGEND
- HMA SURFACE REMOVAL, 2" POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4" HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 1 1/2"
 - SIDEWALK REMOVAL (SPECIAL) PCC SIDEWALK 5 INCH SUBBASE GRANULAR MATERIAL, TYPE B, 4"
 - CLASS D PATCHES, 10" PREPARATION OF BASE AGGREGATE BASE REPAIR
 - DRIVEWAY PAVEMENT REMOVAL HMA DRIVEWAY PAVEMENT, 5"
 - CONCRETE MEDIAN SURFACE REMOVAL CONCRETE MEDIAN SURFACE, 4 INCH (SEE DETAIL A)
 - DETECTABLE WARNINGS - DW
 - COMBINATION CONCRETE CURB AND GUTTER REMOVAL COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (SPECIAL) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (SPECIAL) (SEE NOTES 2 & 3)
 - "A" DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED
 - ENBRIDGE PIPE LINE - 34" CRUDE OIL PIPE LINE
 - EXISTING DETECTOR LOOP
 - HMA SURFACE REMOVAL - BUTT JOINT
 - BEG R&R +XX BEGIN STATION FOR CURB AND GUTTER REMOVAL AND REPLACEMENT
 - END R&R +XX END STATION OF CURB AND GUTTER REMOVAL AND REPLACEMENT
 - CL R&R +XX CENTER STATION OF CURB AND GUTTER REMOVAL AND REPLACEMENT (UNDER 20 LINEAL FEET)

- ### NOTE:
1. ALL SIDEWALK RAMP WILL BE IN ACCORDANCE WITH THE HIGHWAY STANDARDS REFERENCED ON SHEET 2.
 2. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 EXISTS AROUND THE BARRIER MEDIAN AT THE WEST END OF PROJECT, IN DRIVEWAY LOCATIONS, AND ON THE EOP EAST OF STATION 16+58.19 ON THE SOUTH SIDE OF THE ROAD AND ON THE EOP EAST OF STATION 16+90.50 ON THE NORTH SIDE OF THE ROAD.
 3. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 EXISTS ON THE EOP FROM THE BEGINNING PROJECT LIMIT TO STATION 16+58 ON THE SOUTH SIDE OF THE ROAD AND ON THE EOP FROM THE BEGINNING PROJECT LIMIT TO STATION 16+90.50 ON THE NORTH SIDE OF THE ROAD.
 4. ENBRIDGE WILL REQUIRE A "NO STOPPING NO VIBE" ZONE (VIBRATORY FUNCTION TURNED OFF) WITHIN 20' OF THE ENBRIDGE PIPE LINE. SEE GENERAL NOTE #14 ON SHEET 2.

FILE NAME = 22R0505-PLAN-01 - P03

USER NAME =	DESIGNED -- MPN	REVISED --	
	CHECKED --	REVISED --	
PLOT SCALE =	DRAWN -- BG	REVISED --	
PLOT DATE = 04-03-2023	CHECKED -- AG	REVISED --	

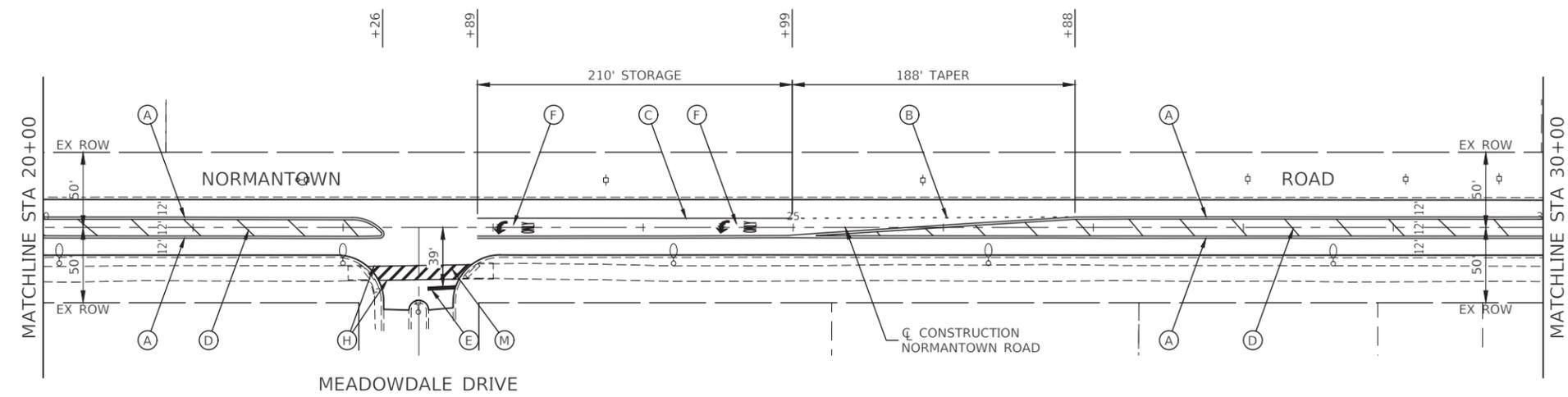
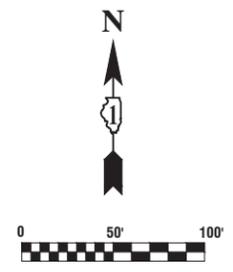
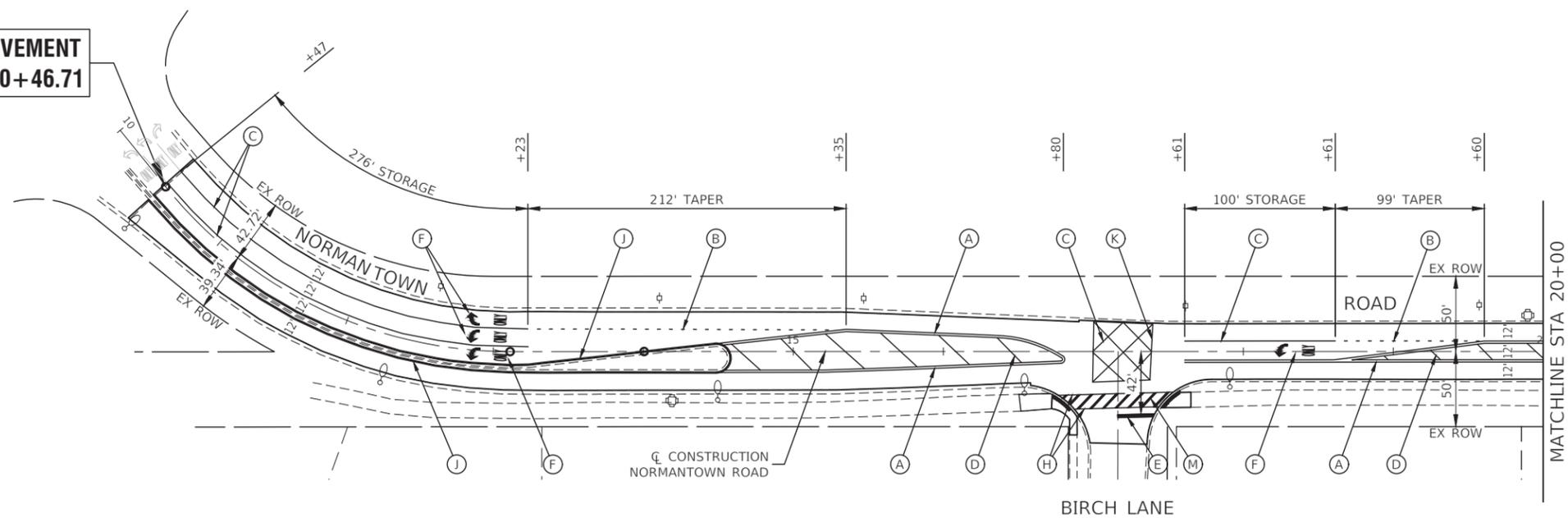
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**NORMANTOWN ROAD
ROADWAY RESURFACING
PROPOSED IMPROVEMENT PLAN**

SCALE: 1"=50' SHEET NO. 11 OF 22 SHEETS STA. 50+00 TO STA. 69+00.34

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0281	22-00076-00-RS	WILL	22	11
CONTRACT NO. 61J61				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT AN6B(140)				

**BEGIN IMPROVEMENT
STA 10+46.71**



PAVEMENT MARKING LEGEND

- (A) THERMOPLASTIC PAVEMENT MARKING - 4" LINE YELLOW LINE (11" C-C)
- (B) THERMOPLASTIC PAVEMENT MARKING - 6" LINE WHITE SKIP DASH (2' LINE-6' SPACE)
- (C) THERMOPLASTIC PAVEMENT MARKING - 6" LINE WHITE LANE LINE
- (D) THERMOPLASTIC PAVEMENT MARKING - 12" LINE YELLOW DIAGONAL LINE (75' C-C OR 5 EQUALLY SPACED)
- (E) THERMOPLASTIC PAVEMENT MARKING - 24" LINE WHITE STOP BAR LINE
- (F) THERMOPLASTIC PAVEMENT MARKING - WHITE LETTERS & SYMBOLS
- (G) THERMOPLASTIC PAVEMENT MARKING - 12" LINE WHITE CROSS-WALK (3' C-C)
- (H) THERMOPLASTIC PAVEMENT MARKING - 6" LINE WHITE CROSS-WALK (10' C-C)
- (J) THERMOPLASTIC PAVEMENT MARKING - 4" LINE YELLOW LINE
- (K) THERMOPLASTIC PAVEMENT MARKING - 8" LINE WHITE LINE
- (L) THERMOPLASTIC PAVEMENT MARKING - 4" LINE WHITE LINE
- (M) THERMOPLASTIC PAVEMENT MARKING - 12" LINE WHITE DIAGONAL LINE (3' C-C @ 45 DEGREES)
- [] DETECTOR LOOP REPLACEMENT

NOTES

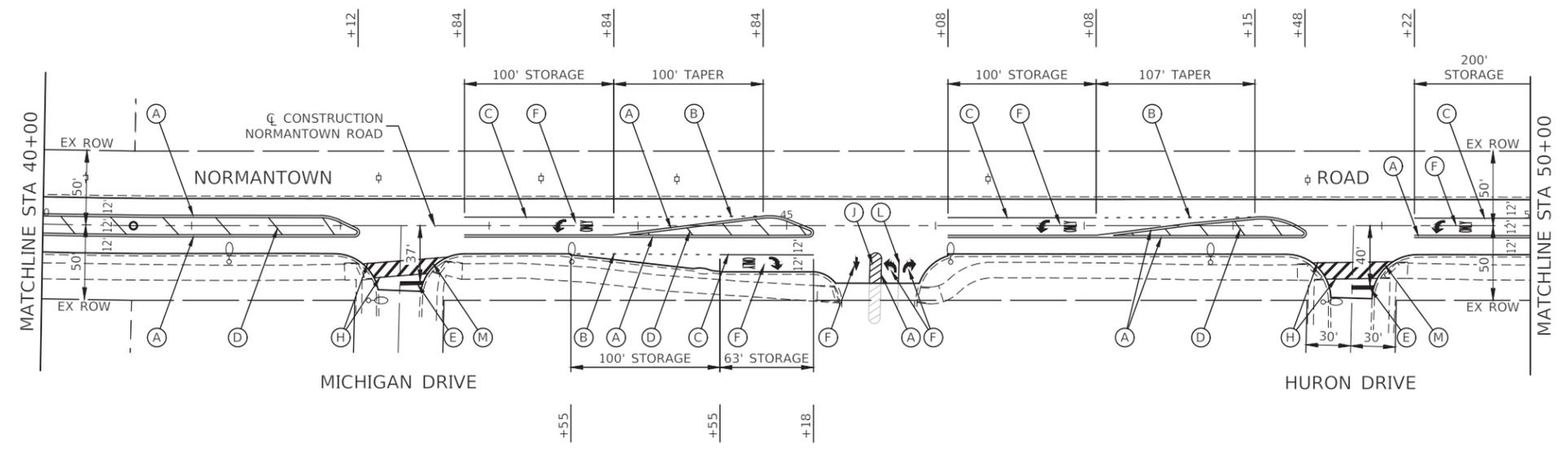
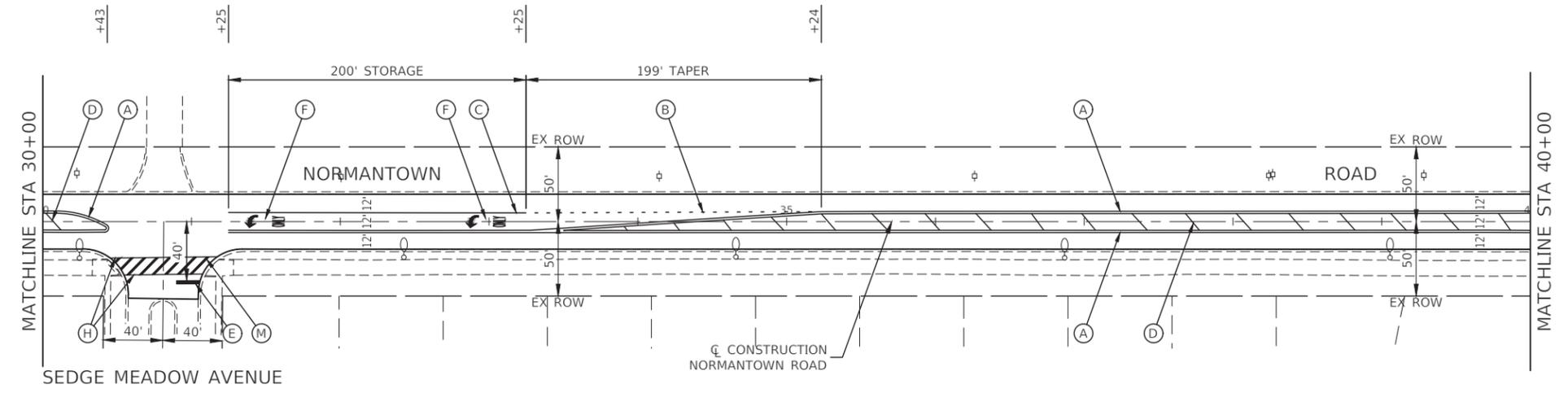
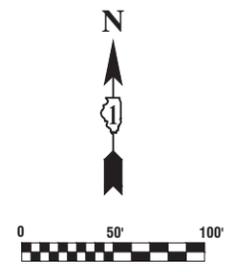
1. SEE TC-13 DISTRICT ONE TYPICAL PAVEMENT MARKING FOR GUIDANCE.
2. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE SHOWN.

FILE NAME = 22R0505-PVMK-01 - P01	USER NAME =	DESIGNED -- MPN	REVISED --
		CHECKED --	REVISED --
	PLOT SCALE =	DRAWN -- BG	REVISED --
	PLOT DATE = 04-03-2023	CHECKED -- AG	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORMANTOWN ROAD ROADWAY RESURFACING PAVEMENT MARKING PLAN		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: 1"=50'		SHEET NO. 12	OF 22 SHEETS	STA. 10+46.71	TO STA. 30+00	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0281	22-00076-00-RS	WILL	22	12
CONTRACT NO. 61J61				
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	AN6B(140)	



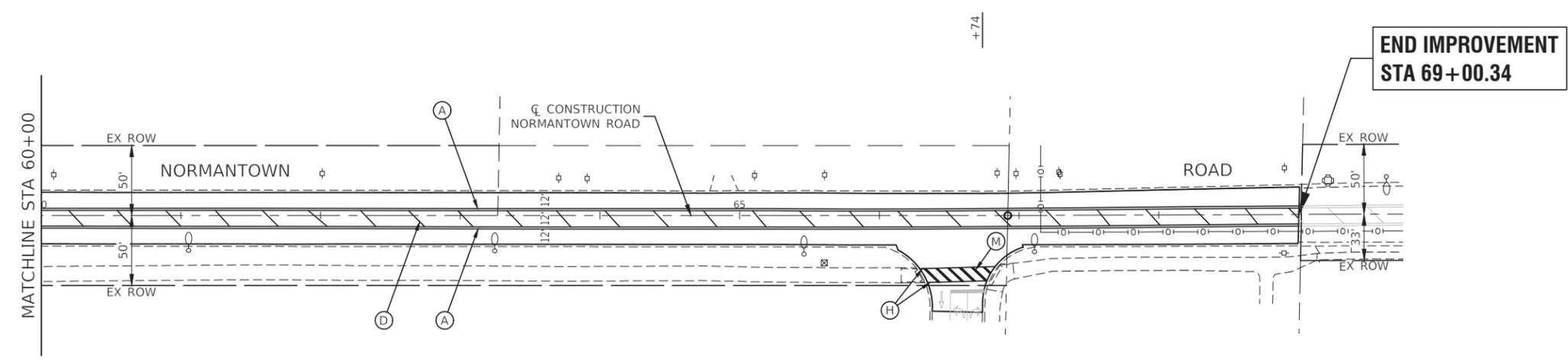
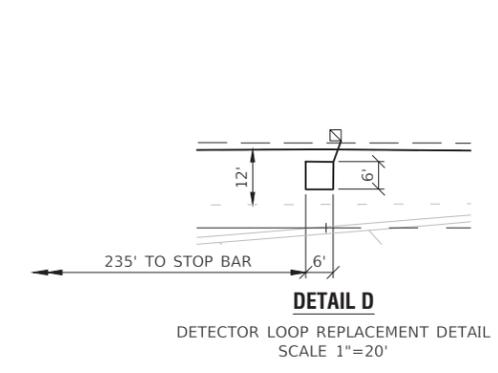
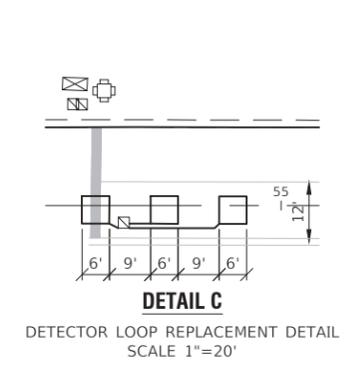
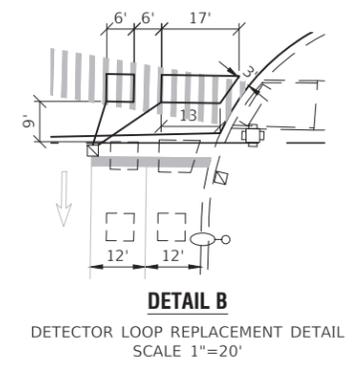
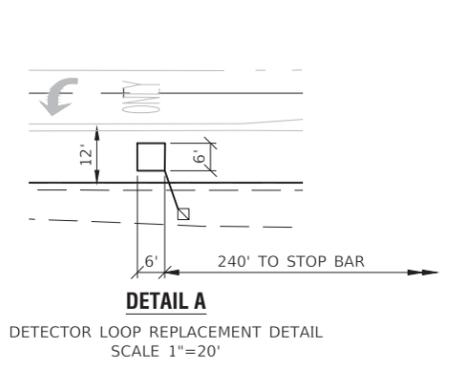
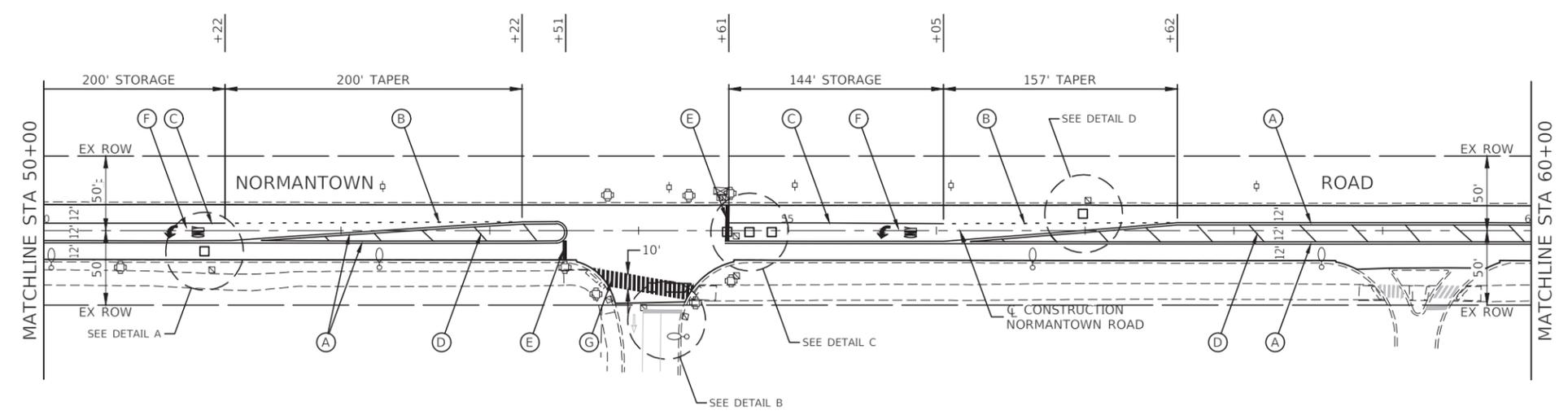
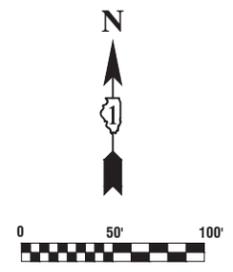
PAVEMENT MARKING LEGEND

- (A) THERMOPLASTIC PAVEMENT MARKING - 4" LINE YELLOW LINE (11" C-C)
- (B) THERMOPLASTIC PAVEMENT MARKING - 6" LINE WHITE SKIP DASH (2' LINE-6' SPACE)
- (C) THERMOPLASTIC PAVEMENT MARKING - 6" LINE WHITE LANE LINE
- (D) THERMOPLASTIC PAVEMENT MARKING - 12" LINE YELLOW DIAGONAL LINE (75' C-C OR 5 EQUALLY SPACED)
- (E) THERMOPLASTIC PAVEMENT MARKING - 24" LINE WHITE STOP BAR LINE
- (F) THERMOPLASTIC PAVEMENT MARKING - WHITE LETTERS & SYMBOLS
- (G) THERMOPLASTIC PAVEMENT MARKING - 12" LINE WHITE CROSS-WALK (3' C-C)
- (H) THERMOPLASTIC PAVEMENT MARKING - 6" LINE WHITE CROSS-WALK (10' C-C)
- (J) THERMOPLASTIC PAVEMENT MARKING - 4" LINE YELLOW LINE
- (K) THERMOPLASTIC PAVEMENT MARKING - 8" LINE WHITE LINE
- (L) THERMOPLASTIC PAVEMENT MARKING - 4" LINE WHITE LINE
- (M) THERMOPLASTIC PAVEMENT MARKING - 12" LINE WHITE DIAGONAL LINE (3' C-C @ 45 DEGREES)
- [] DETECTOR LOOP REPLACEMENT

NOTES

1. SEE TC-13 DISTRICT ONE TYPICAL PAVEMENT MARKING FOR GUIDANCE.
2. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE SHOWN.

FILE NAME = 22R0505-PVMK-01 - P02	USER NAME =	DESIGNED -- MPN	REVISED --	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	NORMANTOWN ROAD ROADWAY RESURFACING PAVEMENT MARKING PLAN			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED --	REVISED --		0281	22-00076-00-RS	WILL	22	13			
	PLOT SCALE =	DRAWN -- BG	REVISED --		SCALE: 1"=50'			SHEET NO. 13 OF 22 SHEETS			STA. 30+00 TO STA. 50+00	
	PLOT DATE = 04-03-2023	CHECKED -- AG	REVISED --					CONTRACT NO. 61J61			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT AN6B(140)	



- PAVEMENT MARKING LEGEND**
- (A) THERMOPLASTIC PAVEMENT MARKING - 4" LINE YELLOW LINE (11" C-C)
 - (B) THERMOPLASTIC PAVEMENT MARKING - 6" LINE WHITE SKIP DASH (2' LINE-6' SPACE)
 - (C) THERMOPLASTIC PAVEMENT MARKING - 6" LINE WHITE LANE LINE
 - (D) THERMOPLASTIC PAVEMENT MARKING - 12" LINE YELLOW DIAGONAL LINE (75° C-C OR 5 EQUALLY SPACED)
 - (E) THERMOPLASTIC PAVEMENT MARKING - 24" LINE WHITE STOP BAR LINE
 - (F) THERMOPLASTIC PAVEMENT MARKING - WHITE LETTERS & SYMBOLS
 - (G) THERMOPLASTIC PAVEMENT MARKING - 12" LINE WHITE CROSS-WALK (3' C-C)
 - (H) THERMOPLASTIC PAVEMENT MARKING - 6" LINE WHITE CROSS-WALK (10' C-C)
 - (J) THERMOPLASTIC PAVEMENT MARKING - 4" LINE YELLOW LINE
 - (K) THERMOPLASTIC PAVEMENT MARKING - 8" LINE WHITE LINE
 - (L) THERMOPLASTIC PAVEMENT MARKING - 4" LINE WHITE LINE
 - (M) THERMOPLASTIC PAVEMENT MARKING - 12" LINE WHITE DIAGONAL LINE (3' C-C @ 45 DEGREES)
 - [] DETECTOR LOOP REPLACEMENT

- NOTES**
- SEE TC-13 DISTRICT ONE TYPICAL PAVEMENT MARKING FOR GUIDANCE.
 - ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE SHOWN.

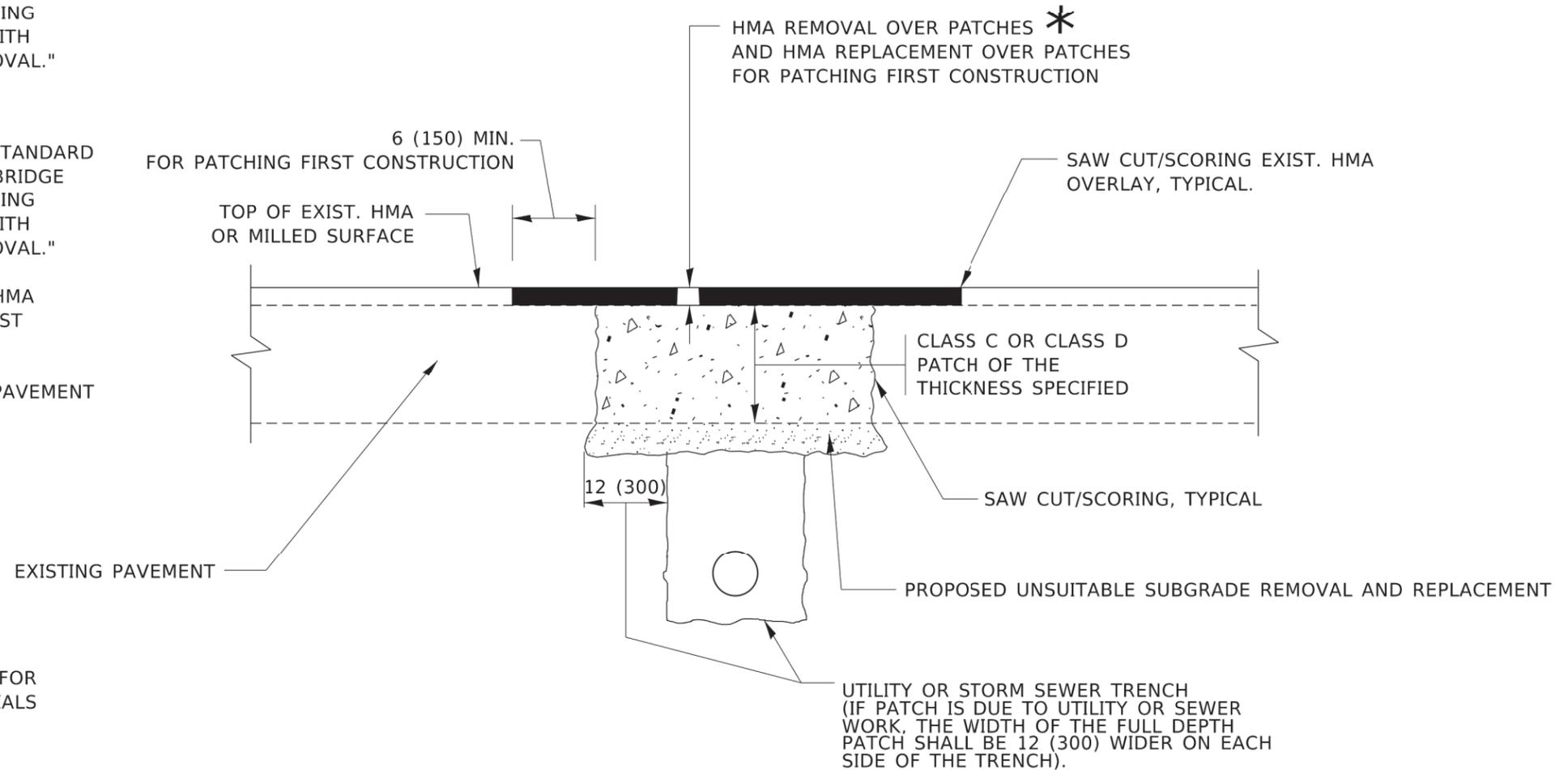
FILE NAME = 22R0505-PVMK-01 - P03	USER NAME =	DESIGNED -- MPN	REVISED --	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	NORMANTOWN ROAD ROADWAY RESURFACING PAVEMENT MARKING PLAN	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE =	DRAWN -- BG	REVISED --			0281	22-00076-00-RS	WILL	22	14	
PLOT DATE = 04-03-2023	CHECKED -- AG	REVISED --		SCALE: 1"=50'		SHEET NO. 14 OF 22 SHEETS		STA. 50+00	TO STA. 69+00.34		
						FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT AN6B(140)		
						CONTRACT NO. 61J61					

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)

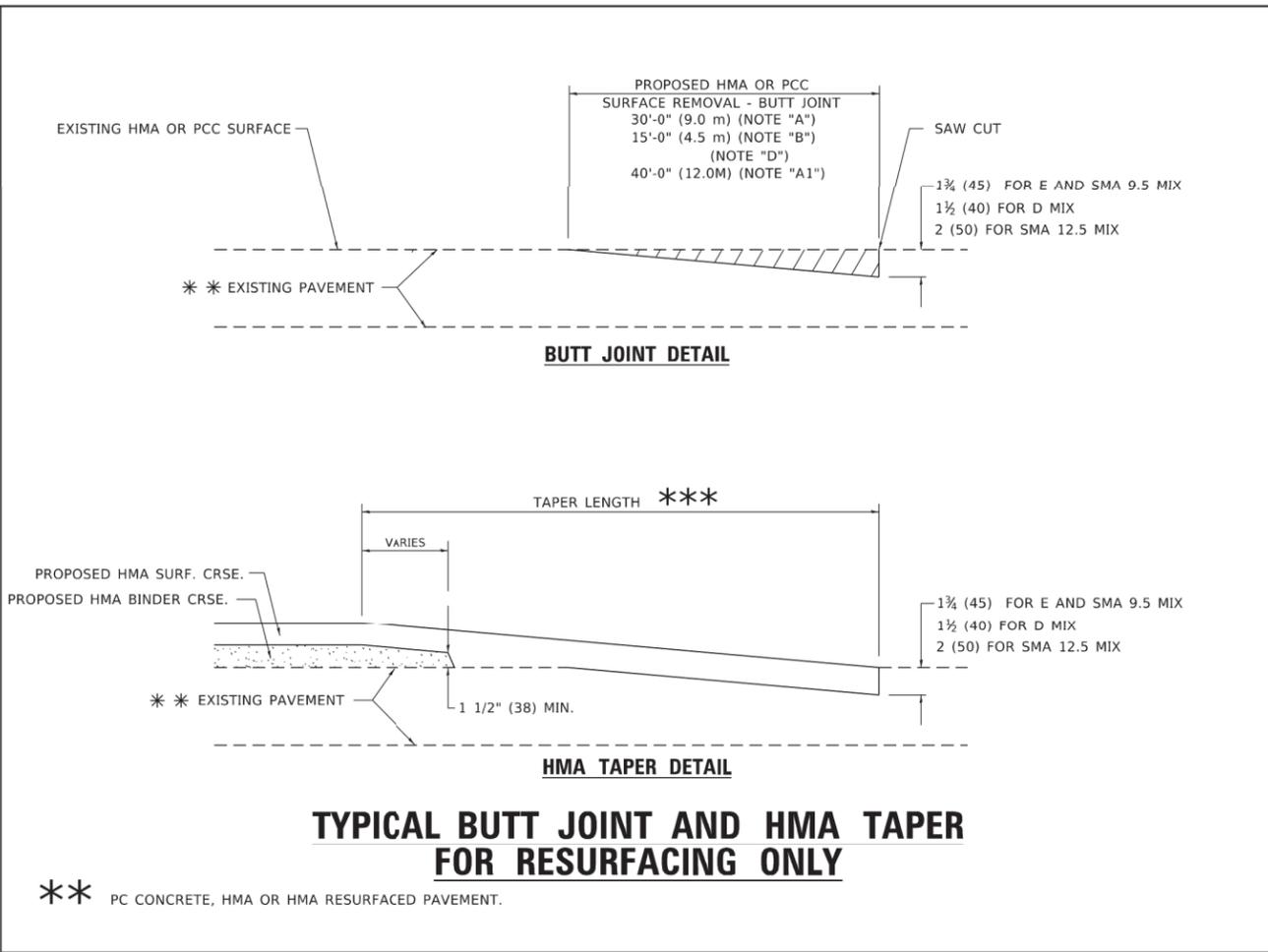
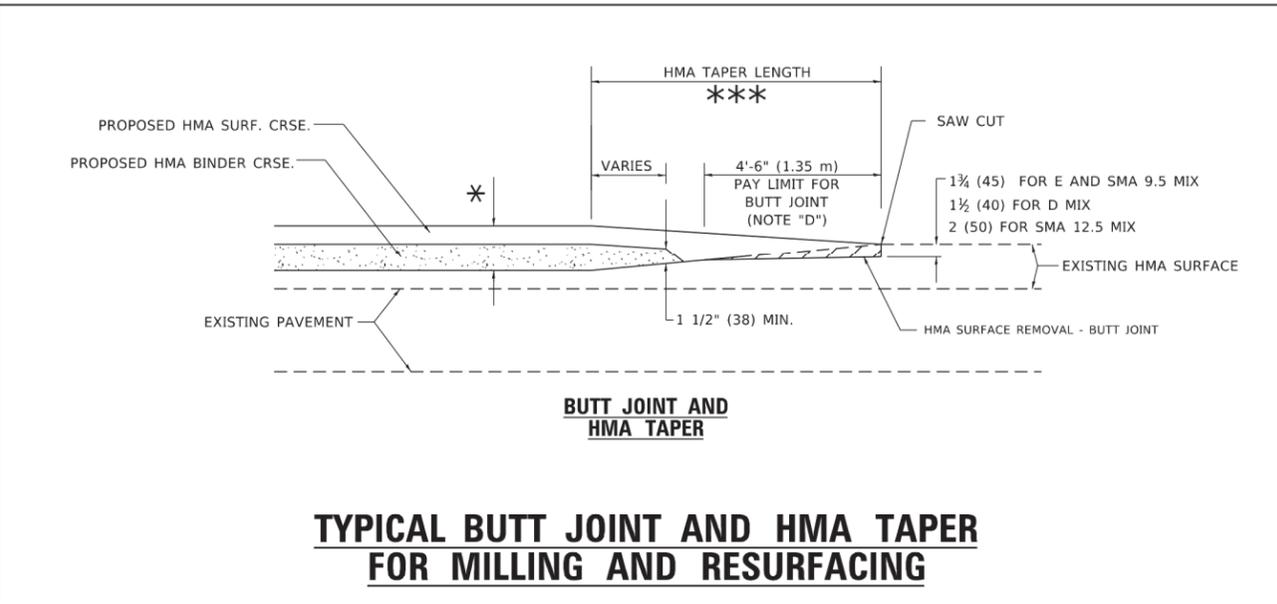
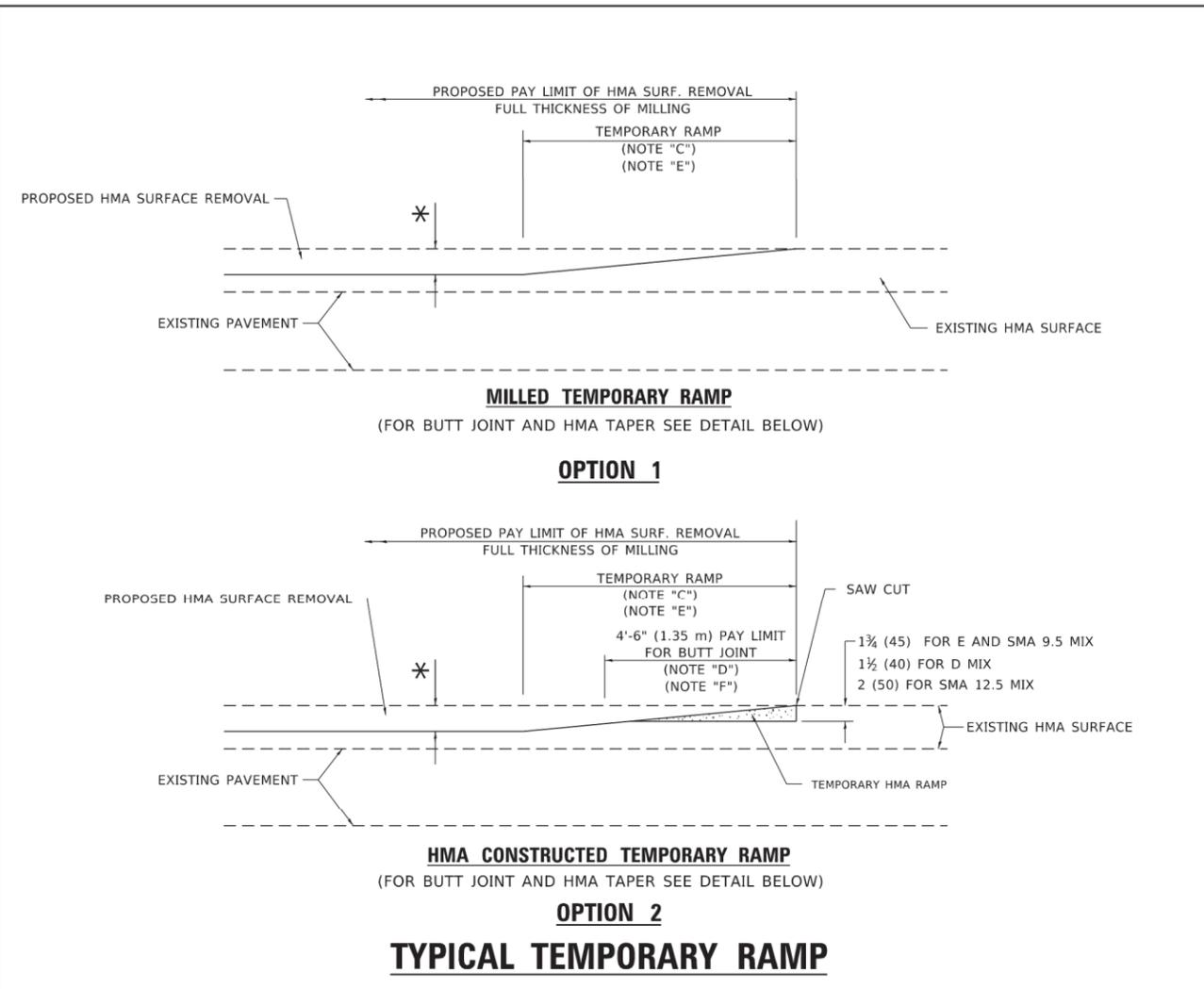
1. MILL HMA FIRST IF THERE IS AT LEAST 4½ INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

FILE NAME: p:\1100-pw-bentley.com\HW\DOT\Documents\DOT_Offices\District_1\Projects\0155022-3\ACAD\03a\ACAD\business\bd2.dgn

USER NAME = Lawrence.DeManche	DESIGNED - R. SHAH	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - R. BORO 09-04-07			SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	BD400-04 (BD-22) CONTRACT NO.			
PLOT DATE = 11/18/2022	DATE - 10-25-94	REVISED - K. ENG 10-27-08			ILLINOIS FED. AID PROJECT						

FILE NAME = 22R0505-DTL5-01 - BD22	USER NAME =	DESIGNED --	REVISED --	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 1 DETAILS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	CHECKED --	REVISED --	SCALE:			SHEET NO. 15 OF 22 SHEETS	STA. TO STA.	0281 22-00076-00-RS WILL 22 15			
	PLOT SCALE =	DRAWN --	REVISED --			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT AN6B(140)					



GENERAL NOTES

- MAINLINE ARTERIAL ROADWAYS AND MAJOR SIDE ROADS.
- INTERSTATES
- MINOR SIDE ROADS.
- THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- 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.
- 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

- 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".
- 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.

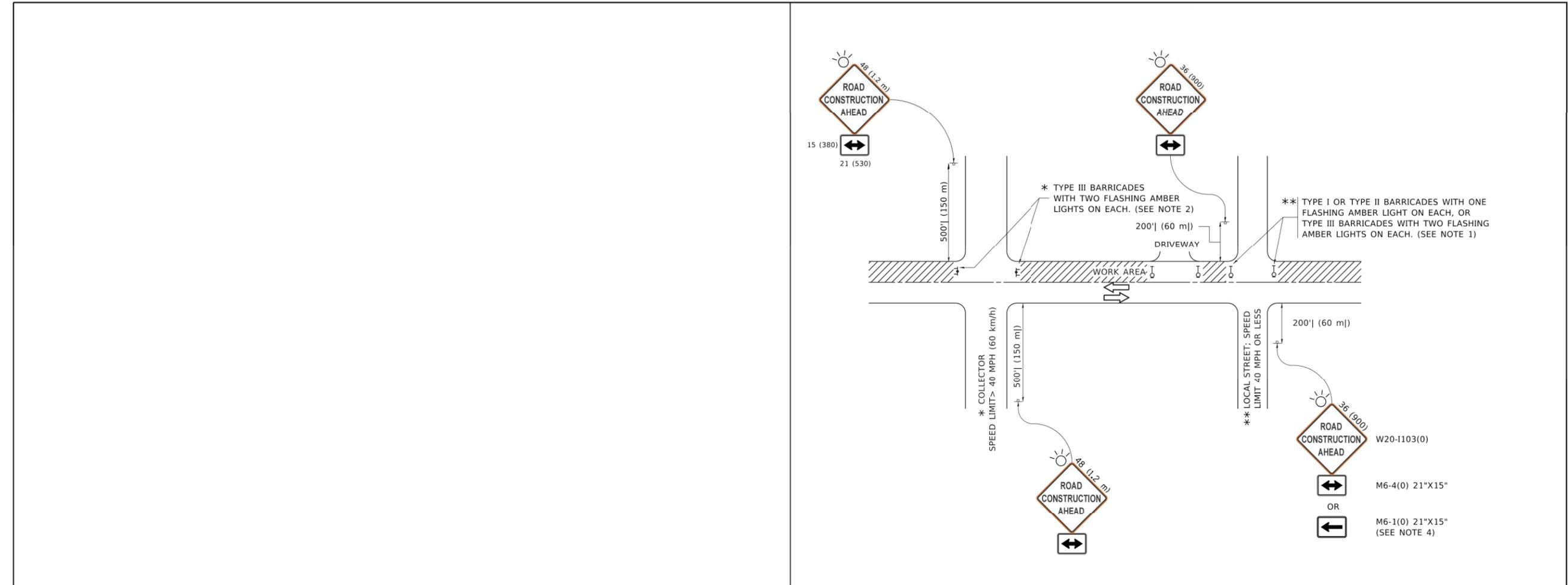
FILE NAME: p:\1100-pw-bentley.com\p1100\Documents\DOT Offices\District 1\Projects\0515022-2-3\CAD\04a\04a\Business\bd2.dgn

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 JOINT AND HMA TAPER DETAILS		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				0281	22-00076-00-RS	WILL	22	16
SCALE: NONE		SHEET 1	OF 1 SHEETS	STA.	TO STA.	CONTRACT NO. BD400-05 BD-32		
				ILLINOIS FED. AID PROJECT				

FILE NAME = 22R0505-DTL5-01 - BD32	USER NAME =	DESIGNED --	REVISED --
		CHECKED --	REVISED --
	PLOT SCALE =	DRAWN --	REVISED --
	PLOT DATE =	CHECKED --	REVISED --

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		DISTRICT 1 DETAILS		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				0281	22-00076-00-RS	WILL	22	16
SCALE:		SHEET NO. 16	OF 22 SHEETS	STA.	TO STA.	CONTRACT NO. AN6B(140)		
				FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



NOTES:

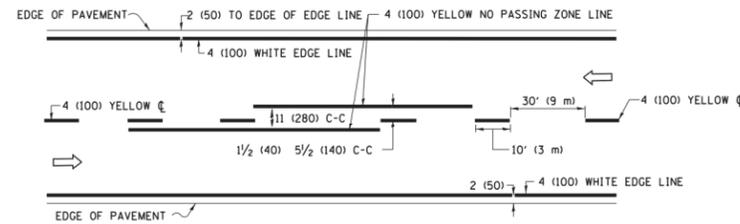
- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - 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 BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 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 AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- 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.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- 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.

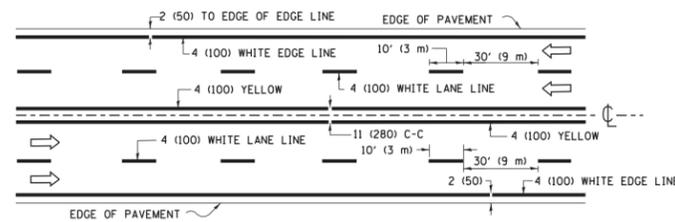
USER NAME = footemj	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE = 50.0000" / in.	CHECKED -	REVISED - T. RAMMACHER 01-06-00					TC-10			CONTRACT NO.		
PLOT DATE = 3/4/2019	DATE - 06-89	REVISED - A. SCHUETZE 07-01-13		SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.	TO STA.		ILLINOIS	FED. AID PROJECT
		REVISED - A. SCHUETZE 09-15-16										

FILE NAME = 22R0505-DTSL-01 - TC10	USER NAME =	DESIGNED --	REVISED --	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 1 DETAILS			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
		CHECKED --	REVISED --					0281			22-00076-00-RS			
		DRAWN --	REVISED --		SCALE:	SHEET NO. 17	OF 22	SHEETS	STA.	TO STA.		WILL	22	17
		CHECKED --	REVISED --									CONTRACT NO. 61J61	FED. ROAD DIST. NO. 1	ILLINOIS

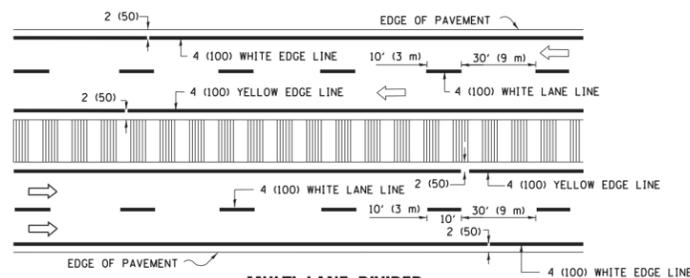
FILE NAME: p:\11084\BID\NTEG\Illinois.gov\PMIDOT\Documents\DOT Offices\District 1\Projects\Dist505022-34\CADD\Drawings\CD\Sheet\TC10.dgn



2-LANE ROADWAY

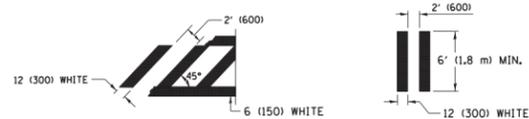
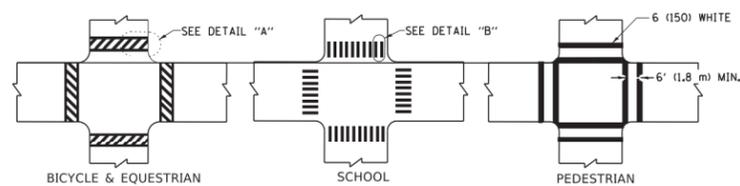


MULTI-LANE UNDIVIDED



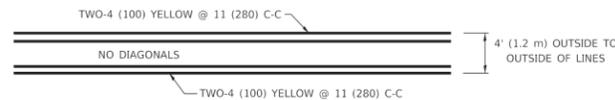
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

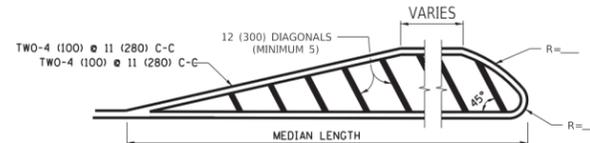


TYPICAL CROSSWALK MARKING

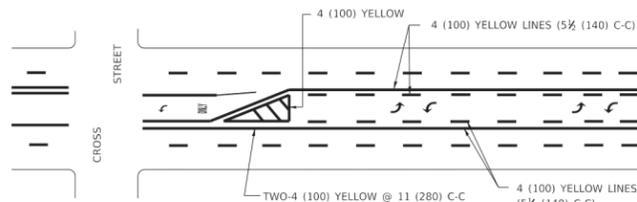
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



4' (1.2 m) WIDE MEDIANS ONLY

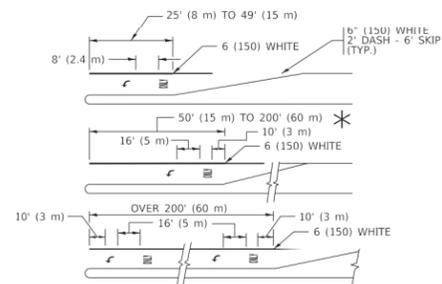


MEDIANS OVER 4' (1.2 m) WIDE



MEDIAN WITH TWO-WAY LEFT TURN LANE

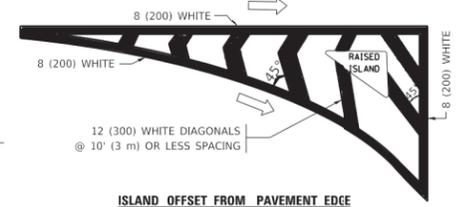
TYPICAL PAINTED MEDIAN MARKING



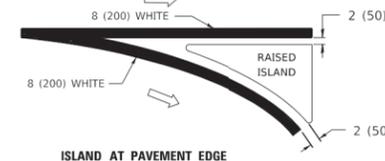
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

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

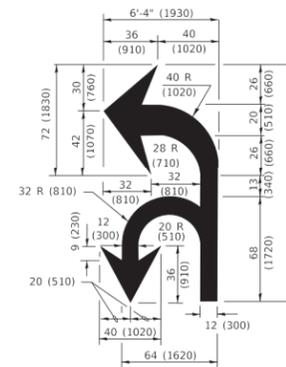


ISLAND OFFSET FROM PAVEMENT EDGE

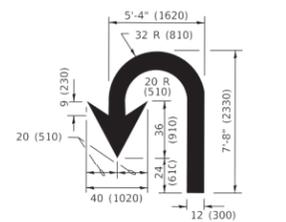


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

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

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

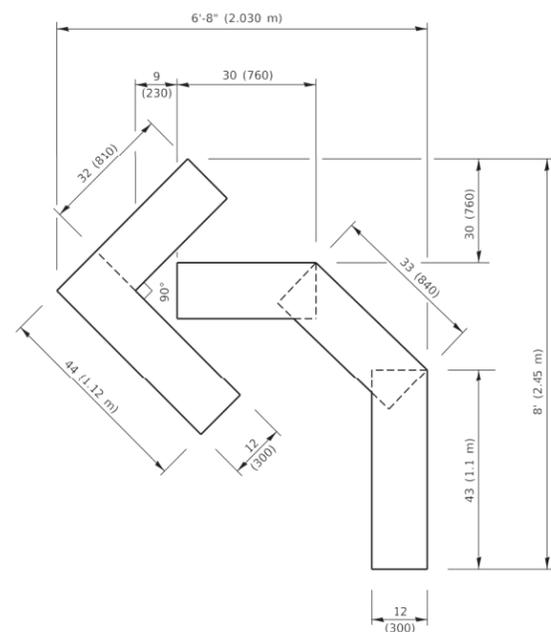
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 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	7 @ 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 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 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
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.

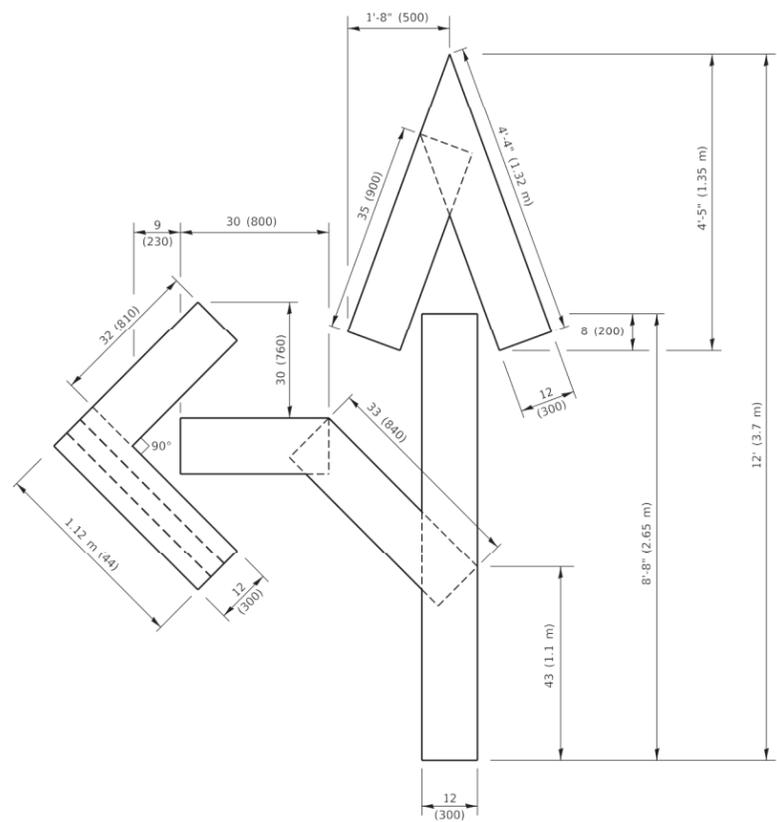
All dimensions are in inches (millimeters) unless otherwise shown.

USER NAME = footemj	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		DISTRICT ONE TYPICAL PAVEMENT MARKINGS				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 50.0000" / in.	DRAWN -	REVISED - C. JUCIUS 07-01-13			SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.				TC-13 CONTRACT NO.				
PLOT DATE = 3/4/2019	CHECKED -	REVISED - C. JUCIUS 12-21-15							ILLINOIS FED. AID PROJECT				
	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16											

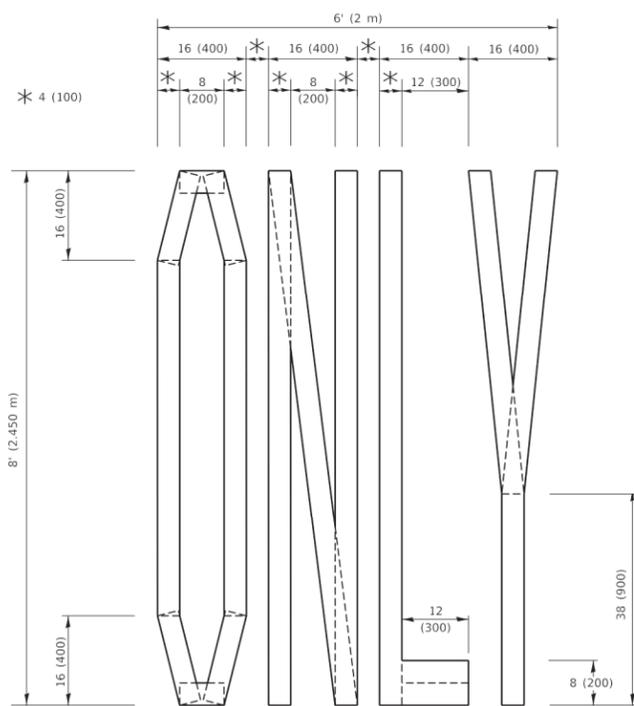
FILE NAME = 22R0505-DTLS-01 - TC13	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		DISTRICT 1 DETAILS				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CHECKED -	DRAWN -	REVISED -			SCALE: SHEET NO. 18 OF 22 SHEETS STA. TO STA.				0281 22-00076-00-RS WILL 22 18 CONTRACT NO. 61J61				
	PLOT SCALE =	CHECKED -	REVISED -							FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT AN6B(140)				
	PLOT DATE =	CHECKED -	REVISED -											



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

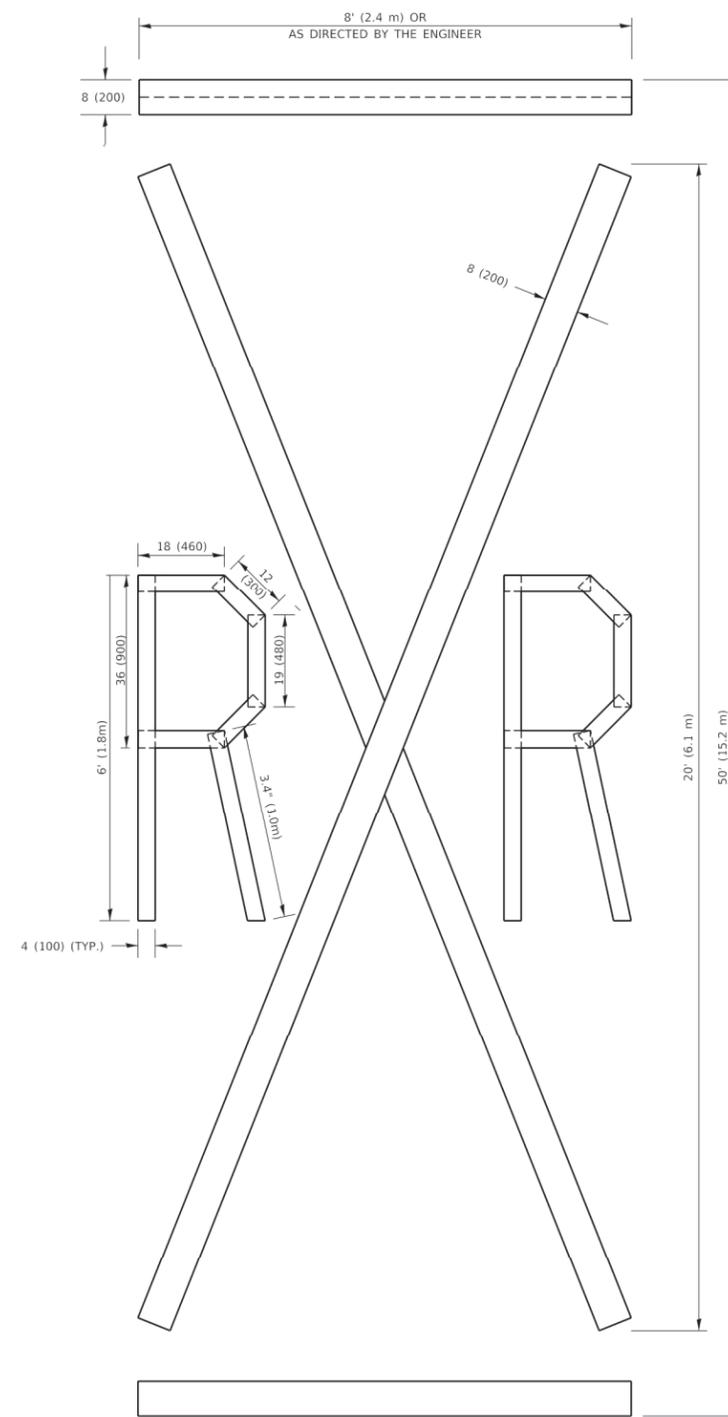


QUANTITY
 4 (100) LINE = 82.5 ft. (25.1 m)
 27.5 sq. ft. (2.53 sq. m)



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

FILE NAME: P:\MAIL\084E10NDNTEG.illinois.gov\PM\DOT\Documents\DOT Offices\District 1\Projects\0555022-34\CADData\CADsheets\16.dgn

USER NAME = footemj	DESIGNED -	REVISED - T. RAMMACHER 03-02-98
PLOT SCALE = 50.0068" / in.	DRAWN -	REVISED - E. GOMEZ 08-28-00
PLOT DATE = 3/4/2019	CHECKED -	REVISED - E. GOMEZ 08-28-00
	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0281	22-00076-00-RS	WILL	22	19
CONTRACT NO.			61J61	
ILLINOIS FED. AID PROJECT				

FILE NAME = 22R0505-DTLS-01 - TC16

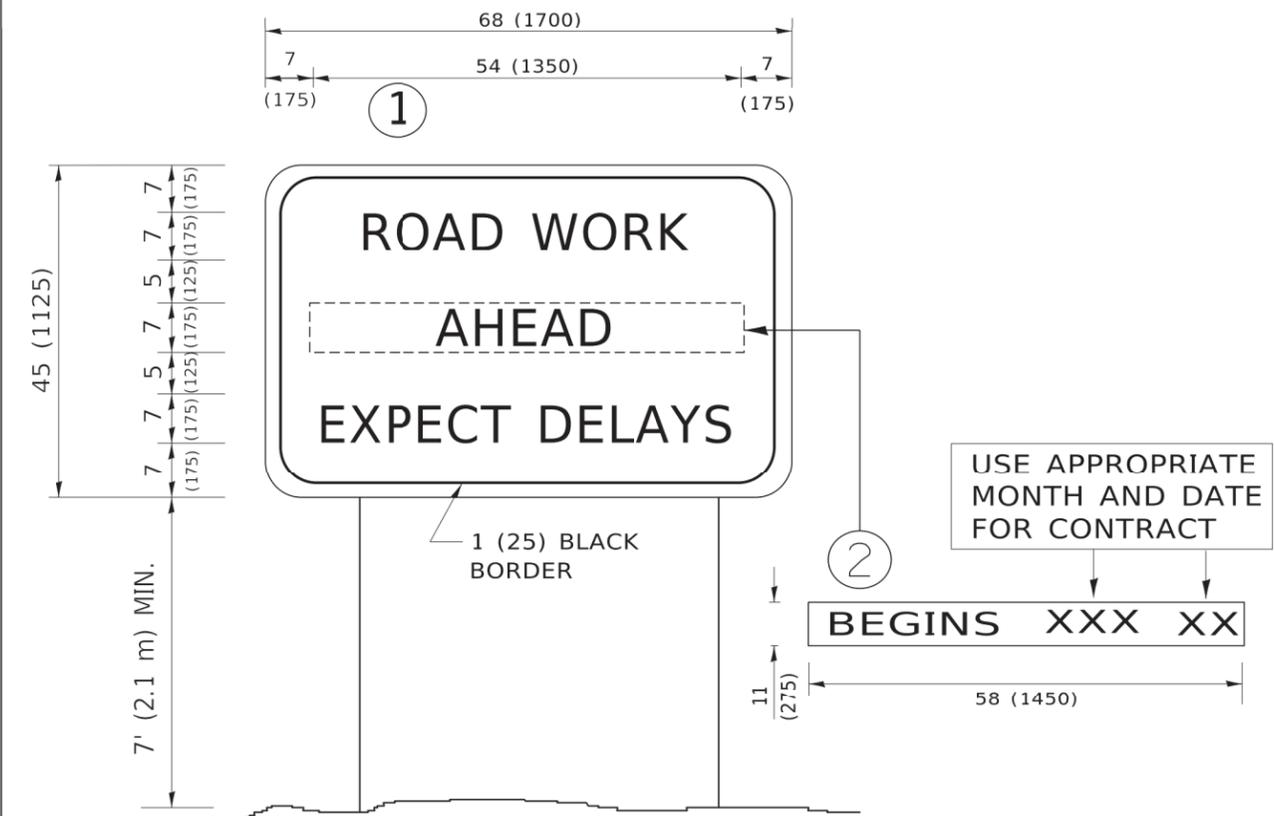
USER NAME =	DESIGNED --	REVISED --
PLOT SCALE =	DRAWN --	REVISED --
PLOT DATE =	CHECKED --	REVISED --

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET NO. 19 OF 22 SHEETS STA. TO STA.

DISTRICT 1 DETAILS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0281	22-00076-00-RS	WILL	22	19
CONTRACT NO.			61J61	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT AN6B(140)				



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 SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON 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.

FILE NAME: p:\110848\BID\NTEC\Illinois.gov\PWIDOT\Documents\DOT Office\District 1\Projects\Dist5\Dist5DZ23\CA\CAD\Dist1\CAD\Sheet5\VC22.dgn

USER NAME = footemj	DESIGNED -	REVISED - R. MIRS 09-15-97
	DRAWN -	REVISED - R. MIRS 12-11-97
PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 01-31-07

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TC-22		CONTRACT NO.		
<small>ILLINOIS FED. AID PROJECT</small>				

FILE NAME = 22R0505-DTL5-01 - TC22	USER NAME =	DESIGNED --	REVISED --
		CHECKED --	REVISED --
	PLOT SCALE =	DRAWN --	REVISED --
	PLOT DATE =	CHECKED --	REVISED --

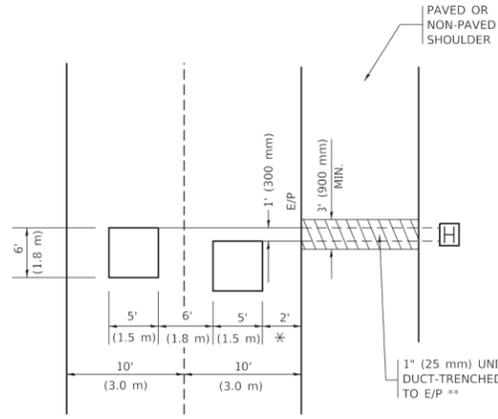
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT 1 DETAILS			
SCALE:	SHEET NO. 20	OF 22 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0281	22-00076-00-RS	WILL	22	20
CONTRACT NO. 61J61				
<small>FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT AN6B(140)</small>				

LOOPS NEXT TO SHOULDERS

PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER.



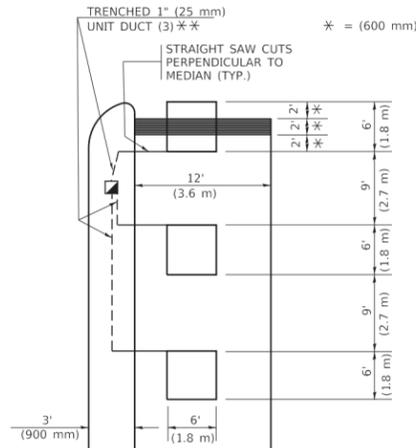
* = (600 mm)

** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

LEFT TURN LANES WITH MEDIANS

VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH (PROTECTED / PERMITTED LEFT TURN PHASING)

HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.

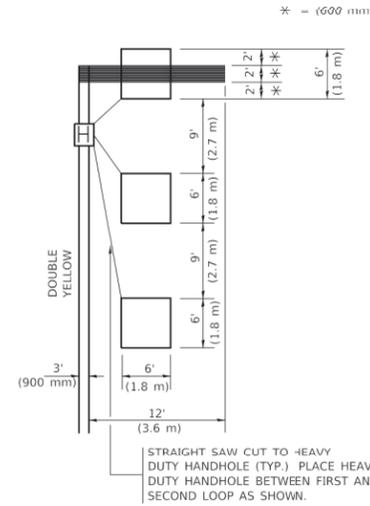


** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

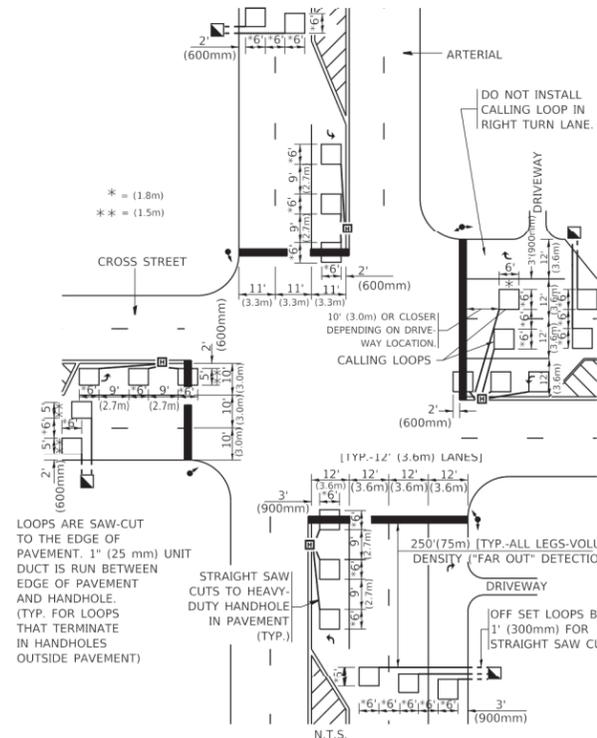
LEFT TURN LANES WITHOUT MEDIANS

VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH (PROTECTED / PERMITTED LEFT TURN PHASING)



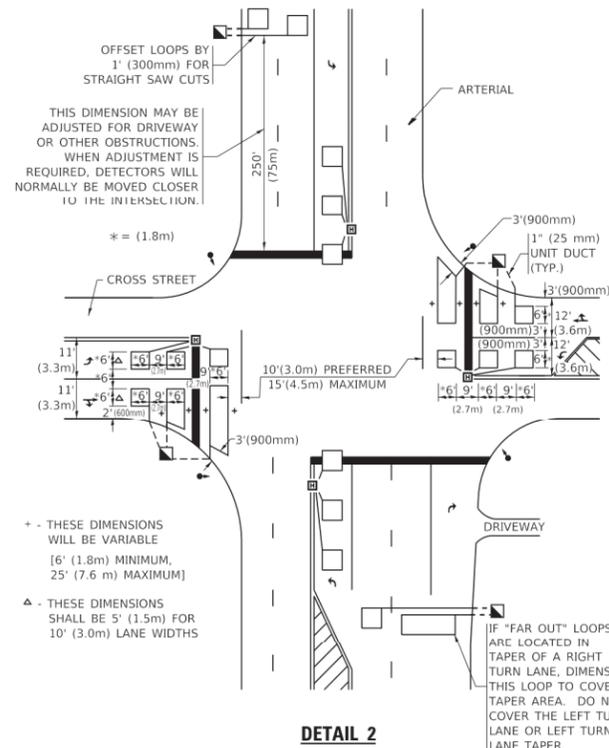
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION) CROSS STREET-NON VOLUME DENSITY ("FAR OUT" DETECTION)



DETAIL 1
N.T.S.

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION) CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)



DETAIL 2
N.T.S.

NOTES:

VEHICLES LOOP DETECTORS

- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATELY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- * EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- * WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- * WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DIMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

NOTE:

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

FILE NAME: p:\u11084\BID\NTEC\Illinois.gov\PMIDOT\Documents\DOT Offices\District 1\Projects\05455022-24\CAD\Draws\CAD\Draws\07.dgn

USER NAME = footemj	DESIGNED -	REVISED -
PLOT SCALE = 50.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/4/2019	CHECKED - R.K.F.	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				TS-07				CONTRACT NO.
SCALE: NONE		SHEET 1 OF 1 SHEETS		STA. TO STA.		ILLINOIS FED. AID PROJECT		

FILE NAME = 22R0505-DTLS-01 - TS07

USER NAME =	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 DETAILS		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		0281	22-00076-00-RS	WILL	22	22	
SCALE:		SHEET NO. 22 OF 22 SHEETS		STA. TO STA.		CONTRACT NO. 61J61	
		FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		AN6B(140)	