

03-07-2025 LETTING ITEM 007

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**
MUN ROUTE 0242 (HIGHPOINT DRIVE)
WEBER ROAD TO 900' SOUTH OF ALDER CREEK DRIVE
ROADWAY RESURFACING
SECTION NO.: 24-00078-00-RS
PROJECT NO.: V1SZ(169)
VILLAGE of ROMEOVILLE
WILL COUNTY
JOB NO.: C-91-047-25

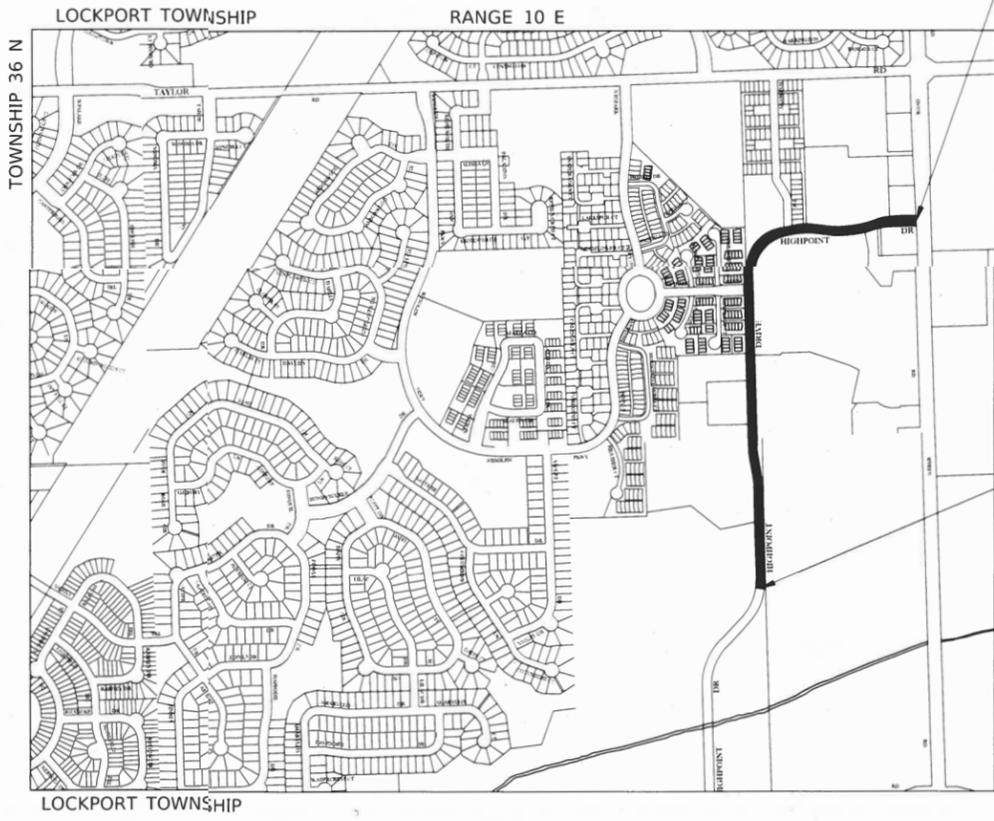
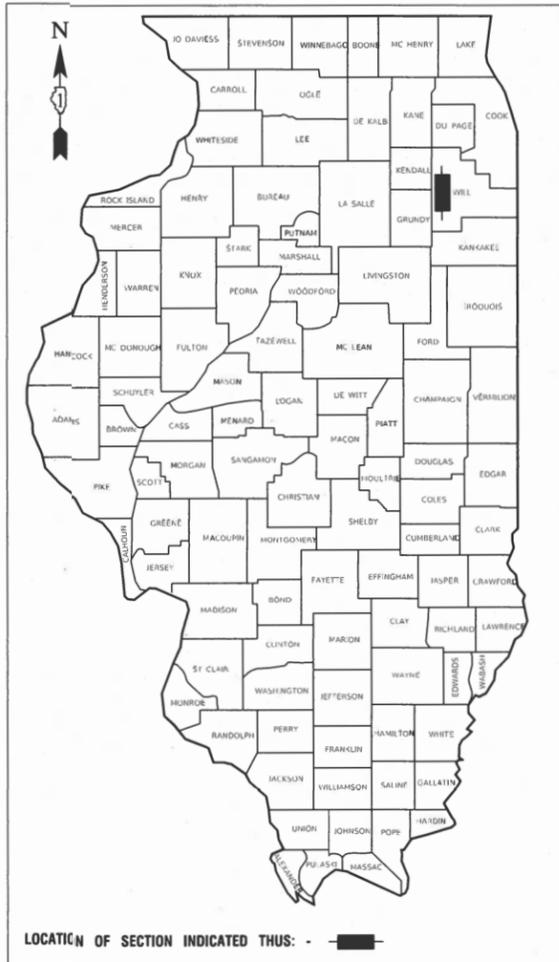
R. & U. SHEET	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0242	24-00078-00-RS	WILL	20	1
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	V1SZ(169)	

CONTRACT NO. 61L13

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR HIGHWAY STANDARDS, SEE SHEET NO. 2

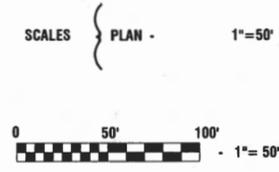
HIGHPOINT DRIVE	
WEBER ROAD TO 900' SOUTH OF ALDER CREEK DRIVE	
2023 ADT-	2,850
POSTED SPEED LIMIT-	25 MPH
FUNCTIONAL CLASSIFICATION-	MINOR COLLECTOR



END PROJECT
HIGHPOINT DRIVE
63+92.22

BEGIN PROJECT
HIGHPOINT DRIVE
26+77.11

VILLAGE
OF
ROMEOVILLE



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= 3715 FEET= 0.70 MILES



LICENSE EXPIRES: 11/30/25
William P. Dolan
12-18-2024

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	
APPROVED	12/18/2024
<i>John Noah</i> VILLAGE OF ROMEOVILLE, MAYOR	
PASSED	Jan 2, 2025
<i>C. H. ...</i> DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS	
RELEASING FOR BID BASED ON LIMITED REVIEW	1.16.2025
<i>Joe ...</i> REGIONAL ENGINEER	

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THE STATE OF ILLINOIS

FEDERAL AID PROGRAM ENGINEER: CARMEN RAMOS, PE
CONSULTANTS: ROBINSON ENGINEERING, LTD. 708-331-6700

CONTRACT NO. 61L13

INDEX OF SHEETS

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6	TYPICAL CROSS SECTION
7-8	ALIGNMENT AND TIES PLAN
9-10	PROPOSED IMPROVEMENT PLAN
11-12	PAVEMENT MARKING PLANS
13-20	IDOT DISTRICT ONE DETAILS

HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-12	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-06	DIAGONAL CURB RAMPS FOR SIDEWALKS
424011-05	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424016-06	MID-BLOCK 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
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
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
780001-05	TYPICAL PAVEMENT MARKINGS
814001-03	HANDHOLES
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUTS FOR DETECTION LOOPS

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-26	DRIVEWAY ENTRANCE SIGNING
TS-05	STANDARD TRAFFIC SIGNAL DESIGN DETAILS
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 (815-886-1870), AT THE VILLAGE ROMEOVILLE, SHALL BE NOTIFIED TWO (2) 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, GAS AND OTHER UTILITIES. (48 HOUR NOTIFICATION REQUIRED)
- 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.
- 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.
- ALL SIGNS REMOVED THAT ARE NOT BEING REINSTALLED ARE THE PROPERTY OF THE VILLAGE AND SHALL BE DELIVERED TO THE VILLAGE OF ROMEOVILLE PUBLIC WORKS DEPARTMENT AT 615 ANDERSON DRIVE, ROMEOVILLE, IL 60446.

FILE NAME = 24R0406-INDX-01 - P01	USER NAME =	DESIGNED -- WD	REVISED --	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HIGHPOINT DRIVE ROADWAY RESURFACING			F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -- WPD	REVISED --				24-00078-00-RS	WILL	20	2		
	PLOT SCALE =	DRAWN -- RG	REVISED --			INDEX OF SHEETS & STATE STANDARDS, STANDARDS & GENERAL NOTES			CONTRACT NO. 61L13			
	PLOT DATE = 01-08-2025	CHECKED -- AG	REVISED --			SCALE: NONE	SHEET NO. 2	OF 20 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	FED 80%	FED 80%
				VILLAGE 20%	VILLAGE 20%
				ROADWAY	SAFETY
CONSTRUCTION TYPE CODE					
				0005	0021
20101700	SUPPLEMENTAL WATERING	UNIT	18	18	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	385	385	
25000110	SEEDING, CLASS 1A	ACRE	0.25	0.25	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	10	10	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	10	10	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	10	10	
25100630	EROSION CONTROL BLANKET	SQ YD	385	385	
28000510	INLET FILTERS	EACH	23	23	
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	320		320
35800100	PREPARATION OF BASE	SQ YD	275	275	
35800200	AGGREGATE BASE REPAIR	TON	50	50	
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	10	10	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	8850	8850	
40600370	LONGITUDINAL JOINT SEALANT	FOOT	3700	3700	
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	20	20	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	315	315	

* SPECIALTY ITEM

FILE NAME = 24R0406-QUAN-01 - IDOT-001

USER NAME =	DESIGNED -- WD	REVISED --
	CHECKED -- ---	REVISED --
PLOT SCALE =	DRAWN -- ACAD	REVISED --
PLOT DATE = 12-18-2024	CHECKED -- ACAD	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HIGHPOINT DRIVE
ROADWAY RESURFACING
SUMMARY OF QUANTITIES

SCALE: SHEET NO. 3 OF 20 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0242	24-00078-00-RS	WILL	20	3
CONTRACT NO. 61L13				
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	V1SZ(169)	

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	FED 80%	FED 80%
				VILLAGE 20%	VILLAGE 20%
				ROADWAY	SAFETY
CONSTRUCTION TYPE CODE					
				0005	0021
40603200	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50	TON	570	570	
40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	1135	1135	
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	110	110	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	2885		2885
42400800	DETECTABLE WARNINGS	SQ FT	230		230
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	13110	13110	
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	110	110	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1250	1250	
44000600	SIDEWALK REMOVAL	SQ FT	2885		2885
44201725	CLASS D PATCHES, TYPE I, 7 INCH	SQ YD	5	5	
44201729	CLASS D PATCHES, TYPE II, 7 INCH	SQ YD	15	15	
44201733	CLASS D PATCHES, TYPE III, 7 INCH	SQ YD	25	25	
44201735	CLASS D PATCHES, TYPE IV, 7 INCH	SQ YD	230	230	
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	1250	1250	
67100100	MOBILIZATION	L SUM	1	1	
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	1	1	

* SPECIALTY ITEM

FILE NAME = 24R0406-QUAN-01 - IDOT-001 (2)

USER NAME =	DESIGNED -- WD	REVISED --
	CHECKED --	REVISED --
PLOT SCALE =	DRAWN -- ACAD	REVISED --
PLOT DATE = 12-18-2024	CHECKED -- ACAD	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

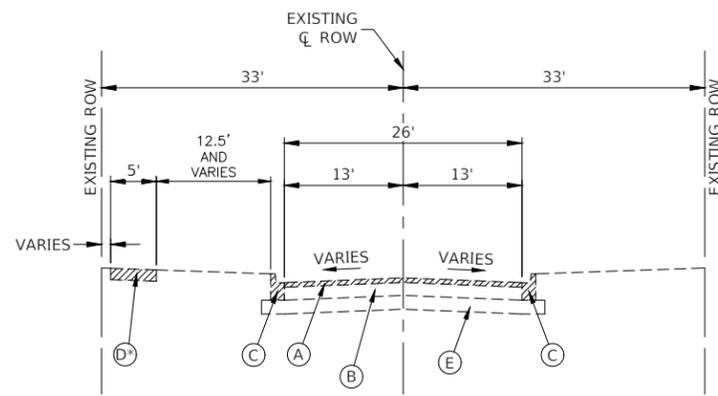
HIGHPOINT DRIVE
ROADWAY RESURFACING
SUMMARY OF QUANTITIES

SCALE: SHEET NO. 4 OF 20 SHEETS STA. TO STA.

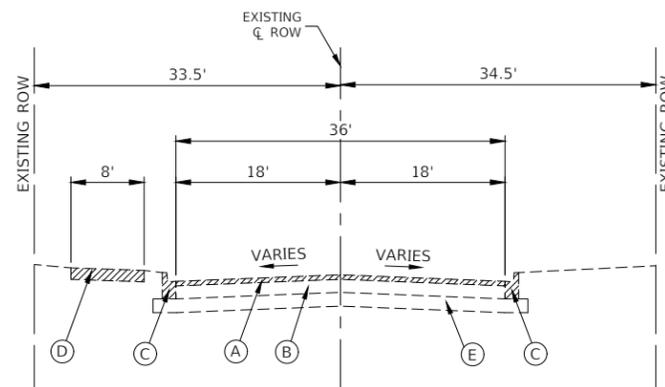
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0242	24-00078-00-RS	WILL	20	4
CONTRACT NO. 61L13				
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	V1SZ(169)	

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	FED 80%	FED 80%
				VILLAGE 20%	VILLAGE 20%
				ROADWAY	SAFETY
CONSTRUCTION TYPE CODE					
				0005	0021
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	1	1	
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	85		85
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	28		28
* 72000100	SIGN PANEL - TYPE 1	SQ FT	18		18
* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	32		32
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	110		110
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	5900		5900
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	730		730
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	120		120
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	245		245
* X8860105	DETECTOR LOOP REPLACEMENT	FOOT	250		250
Z0017400	DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED	EACH	22	22	
Z0017700	DRAINAGE & UTILITY STRUCTURES TO BE RECONSTRUCTED	EACH	1	1	
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	25		25

* SPECIALTY ITEM



**EXISTING TYPICAL SECTION
HIGHPOINT DRIVE
STA 30+67.31 TO STA 63+92.22**



**EXISTING TYPICAL SECTION
HIGHPOINT DRIVE
STA 26+77.11 TO STA 30+67.31**

EXISTING LEGEND

- (A) HOT-MIX ASPHALT SURFACE REMOVAL, 2"
- (B) EXISTING HOT-MIX ASPHALT PAVEMENT (4"-9")
- (C) EXISTING CONCRETE COMBINATION CURB AND GUTTER REMOVAL AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER
- (D) EXISTING SIDEWALK REMOVAL AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER
- (E) EXISTING SUB-BASE (0"-6")
- ▨ ITEMS TO BE REMOVED AS DIRECTED BY THE ENGINEER

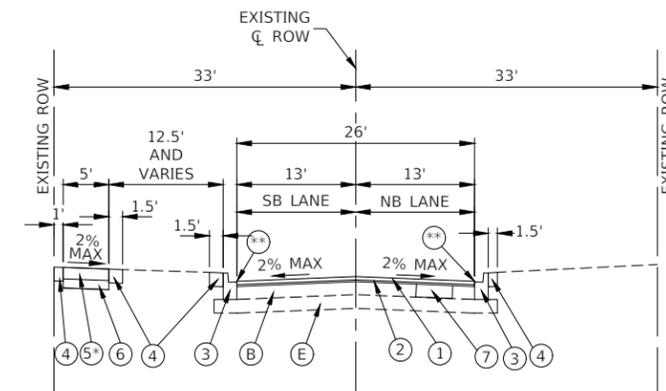
PROPOSED LEGEND

- (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) PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- (4) TOPSOIL FURNISH AND PLACE 4", SEEDING, CLASS 1A, EROSION CONTROL BLANKET AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER
- (5) PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH
- (6) AGGREGATE BASE COURSE, TYPE B, 4"
- (7) CLASS D PATCHES, 7 INCH, PREPARATION OF BASE, AGGREGATE BASE REPAIR AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER

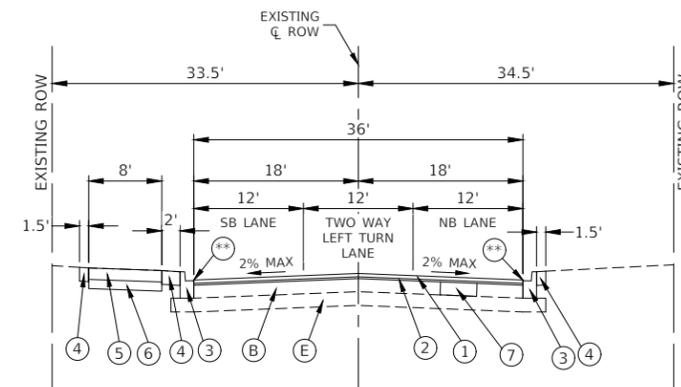
NOTE:
STA 60+87.00 TO STA 63+92.96 TAPERS TO AN 18' LANDSCAPED MEDIAN WITH 21' OF PAVEMENT ON EACH SIDE OF THE MEDIAN.

* NO SIDEWALK FROM STA 43+35.98 TO STA 48+82.21

** FINISHED PAVEMENT SURFACE SHALL BE 1/4" ABOVE TOP OF GUTTER



**PROPOSED TYPICAL SECTION
HIGHPOINT DRIVE
STA 30+67.31 TO STA 63+92.22**



**PROPOSED TYPICAL SECTION
HIGHPOINT DRIVE
STA 27+00.00 TO STA 30+68**

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

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

NOTES

1. LONGITUDINAL JOINT SEALANT SHALL BE PLACED ON THE POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50.
2. ALL PATCHING OPERATIONS SHALL TAKE PLACE AFTER SURFACE MILLING HAS BEEN COMPLETED.
3. THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURES IS 112 LBS/SQ/IN.
4. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG-64-22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.

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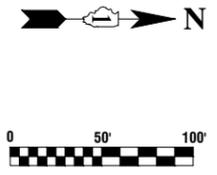
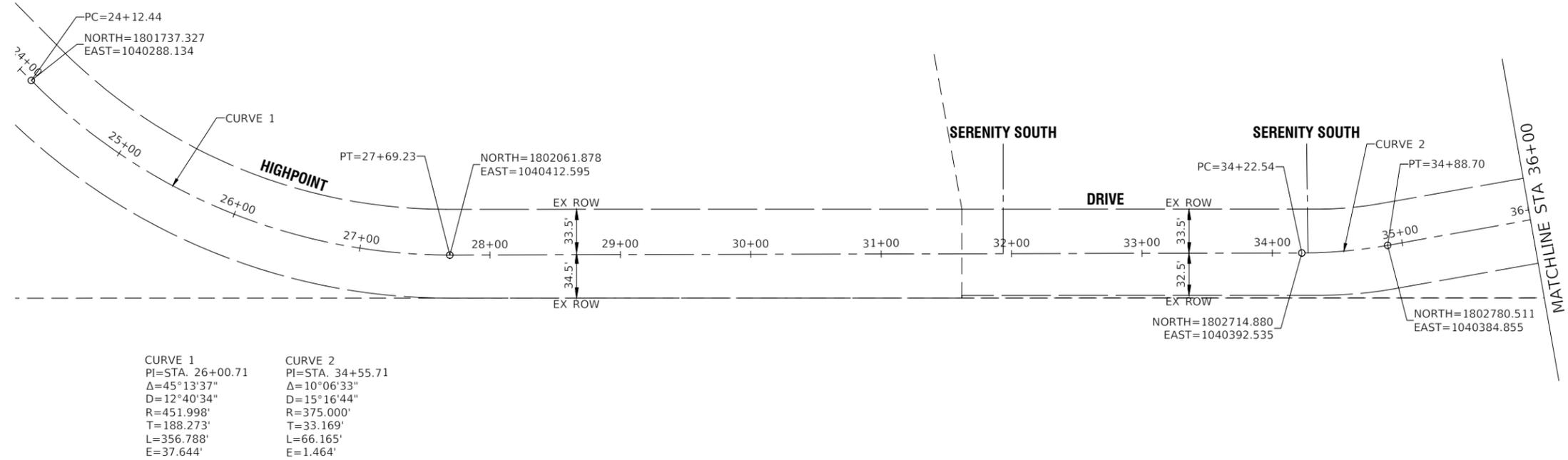
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PLOT DATE = 12-18-2024	CHECKED -- AG	REVISD --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

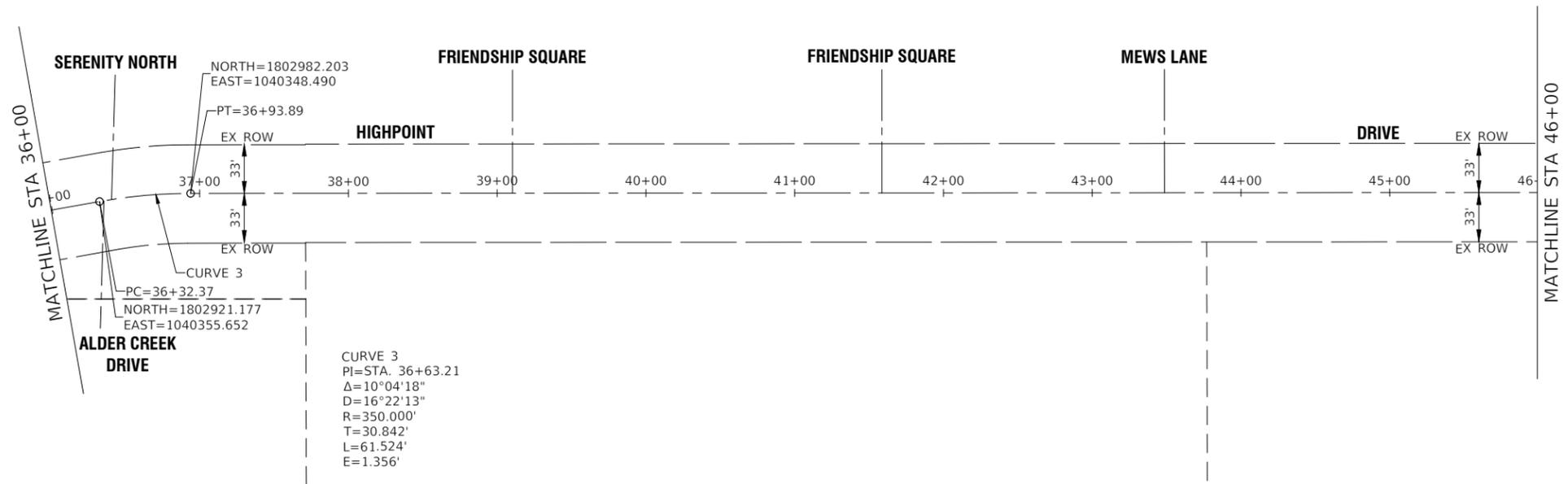
HIGHPOINT DRIVE
ROADWAY RESURFACING
TYPICAL CROSS SECTIONS

SCALE: SHEET NO. 6 OF 20 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0242	24-00078-00-RS	WILL	20	6
CONTRACT NO. 61L13				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT V1SZ(169)				



CURVE 1	CURVE 2
PI=STA. 26+00.71	PI=STA. 34+55.71
Δ=45°13'37"	Δ=10°06'33"
D=12°40'34"	D=15°16'44"
R=451.998'	R=375.000'
T=188.273'	T=33.169'
L=356.788'	L=66.165'
E=37.644'	E=1.464'



CURVE 3
PI=STA. 36+63.21
Δ=10°04'18"
D=16°22'13"
R=350.000'
T=30.842'
L=61.524'
E=1.356'

FILE NAME = 24R0406-TIES-01 - P01

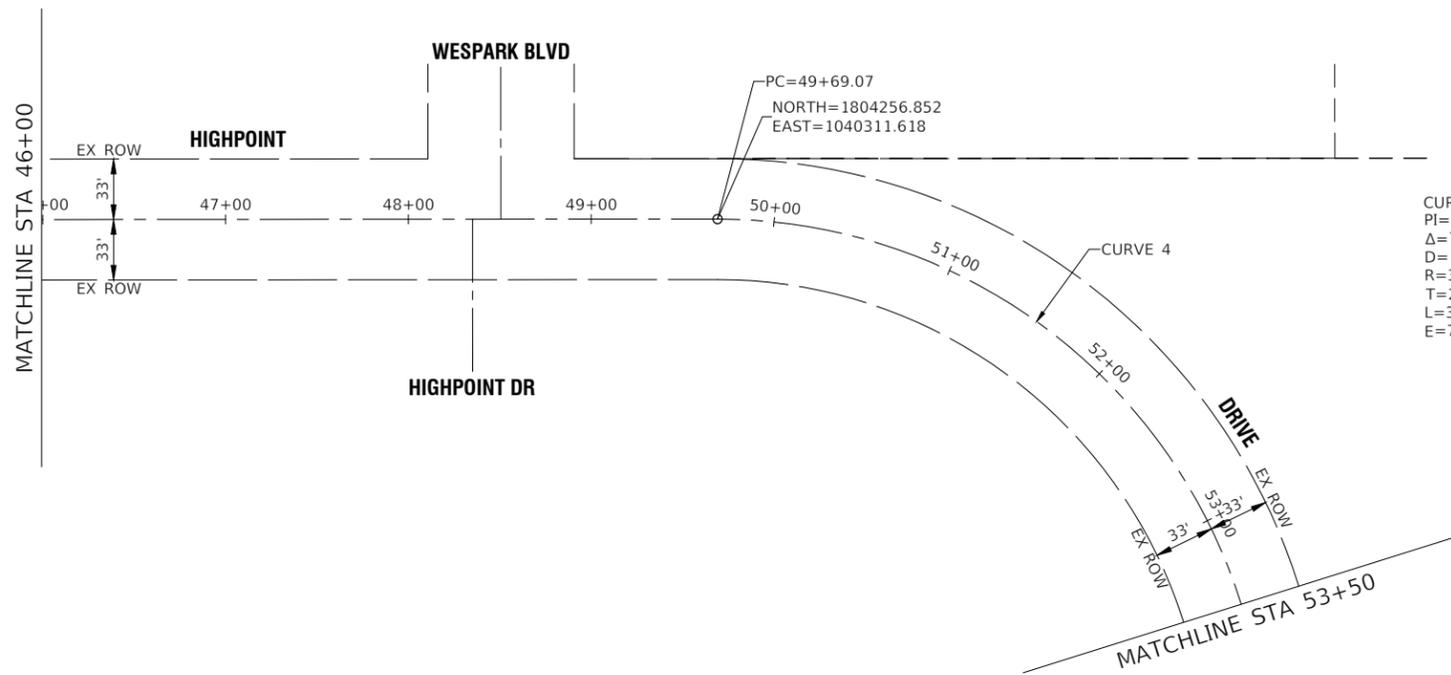
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PLOT SCALE =	DRAWN -- DS	REVISED --
PLOT DATE = 12-18-2024	CHECKED -- AG	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

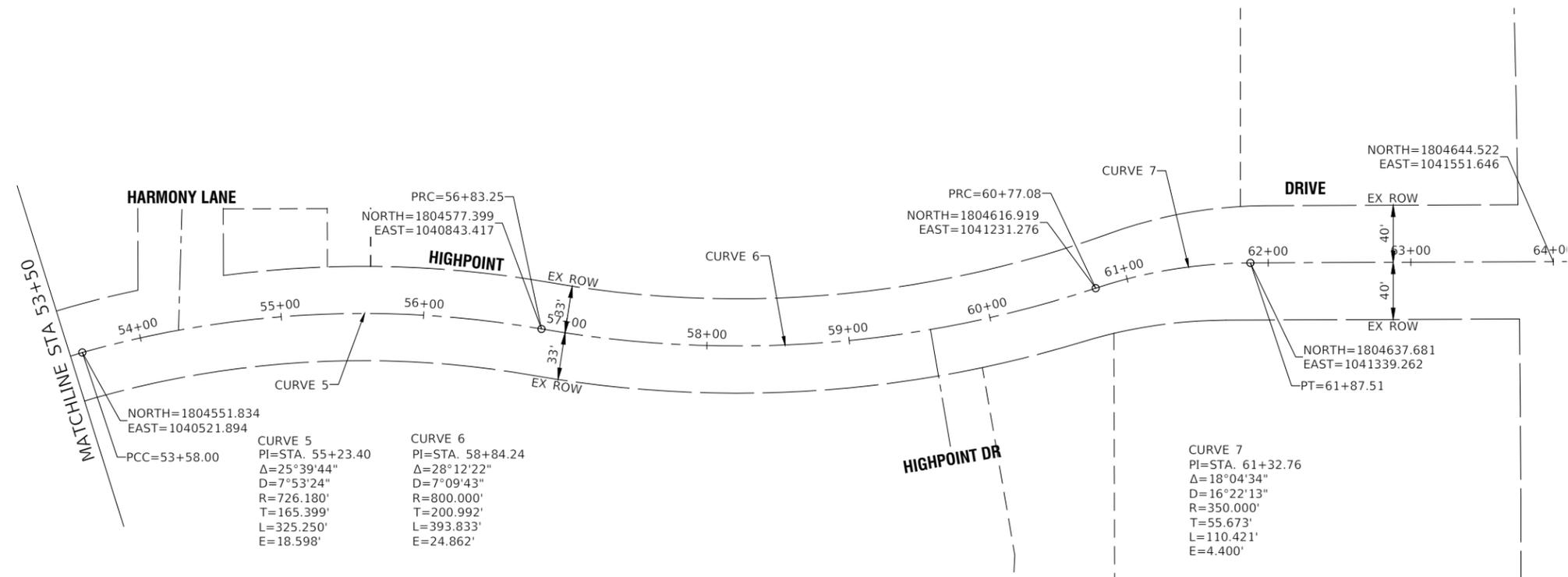
HIGHPOINT DRIVE
ROADWAY RESURFACING
ALIGNMENT AND TIES

SCALE: 1"=50' SHEET NO. 7 OF 20 SHEETS STA. 26+77.11 TO STA. 46+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0242	24-00078-00-RS	WILL	20	7
CONTRACT NO. 61L13				
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	V1SZ(169)	



CURVE 4
 PI=STA. 51+96.29
 $\Delta=74^{\circ}16'47''$
 $D=19^{\circ}05'55''$
 $R=300.000'$
 $T=227.217'$
 $L=388.928'$
 $E=76.334'$



CURVE 5
 PI=STA. 55+23.40
 $\Delta=25^{\circ}39'44''$
 $D=7^{\circ}53'24''$
 $R=726.180'$
 $T=165.399'$
 $L=325.250'$
 $E=18.598'$

CURVE 6
 PI=STA. 58+84.24
 $\Delta=28^{\circ}12'22''$
 $D=7^{\circ}09'43''$
 $R=800.000'$
 $T=200.992'$
 $L=393.833'$
 $E=24.862'$

CURVE 7
 PI=STA. 61+32.76
 $\Delta=18^{\circ}04'34''$
 $D=16^{\circ}22'13''$
 $R=350.000'$
 $T=55.673'$
 $L=110.421'$
 $E=4.400'$

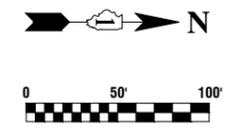
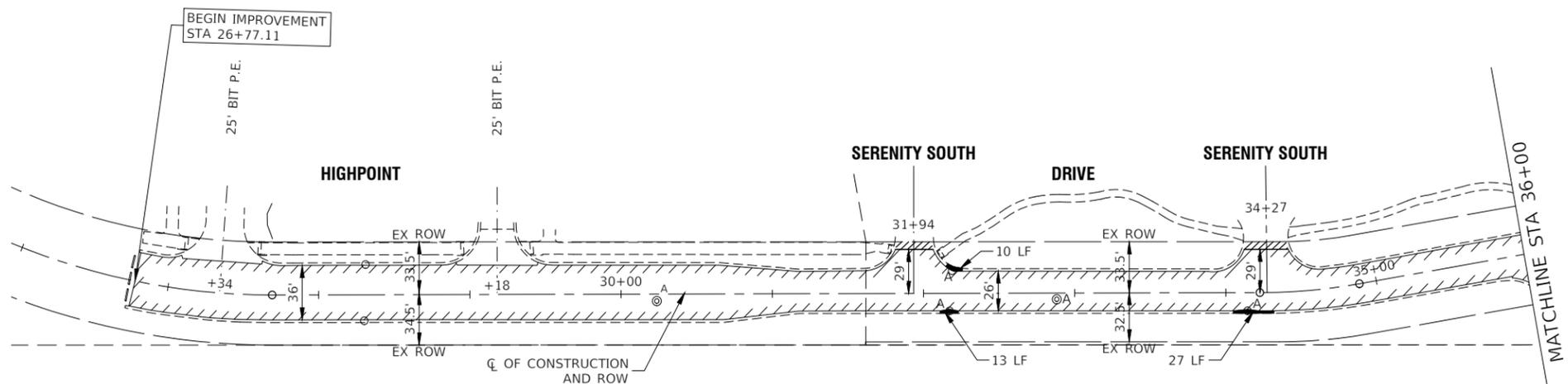
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USER NAME =	DESIGNED -- WD	REVISED --
	CHECKED --	REVISED --
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PLOT DATE = 12-18-2024	CHECKED -- AG	REVISED --

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

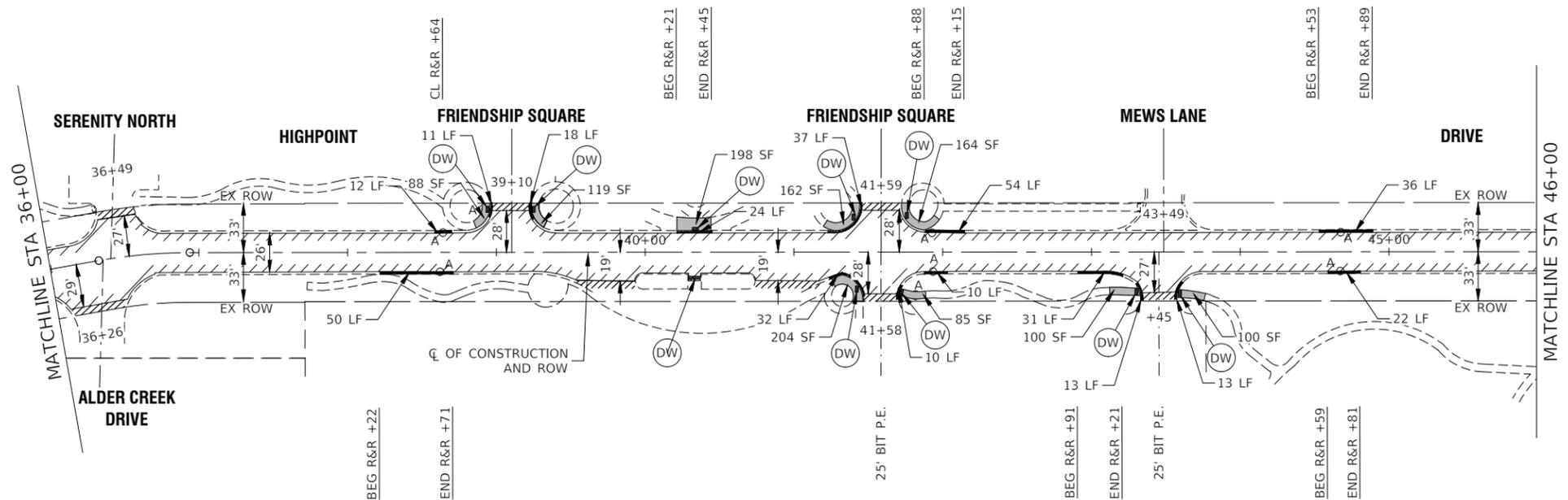
HIGHPOINT DRIVE ROADWAY RESURFACING ALIGNMENT AND TIES	
SCALE: 1"=50'	SHEET NO. 8 OF 20 SHEETS
STA. 46+00	TO STA. 63+92.22

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0242	24-00078-00-RS	WILL	20	8
CONTRACT NO. 61L13				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT V1S2(169)				



LEGEND

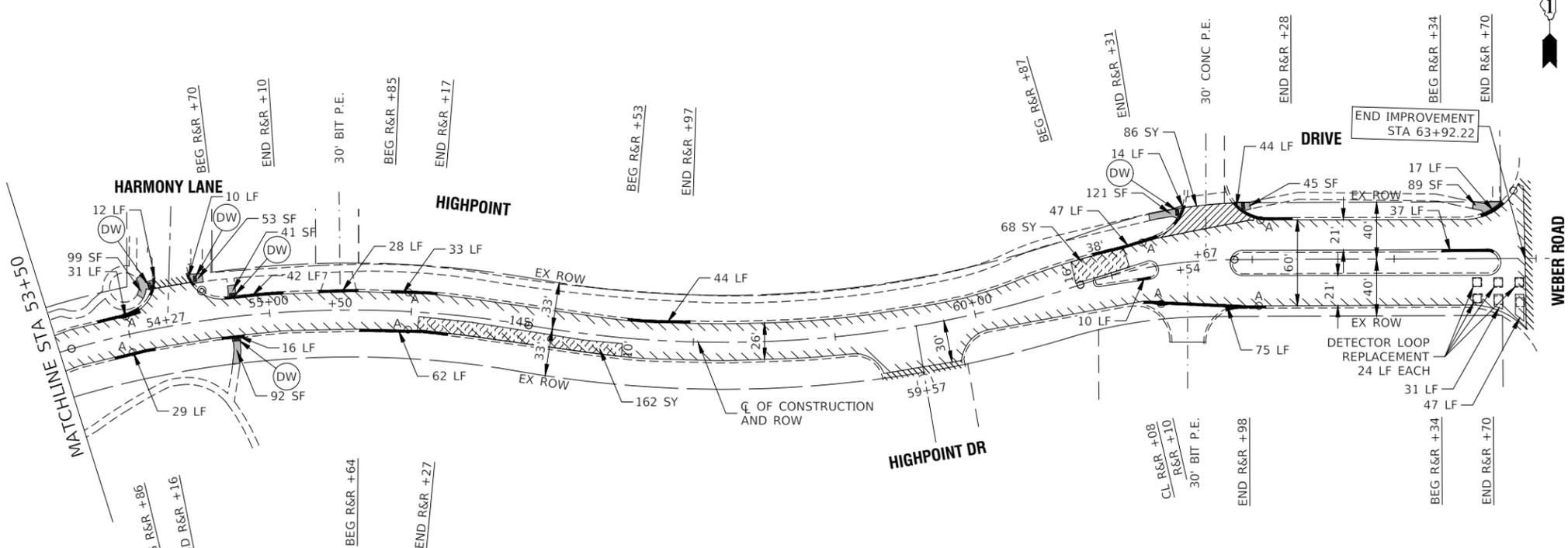
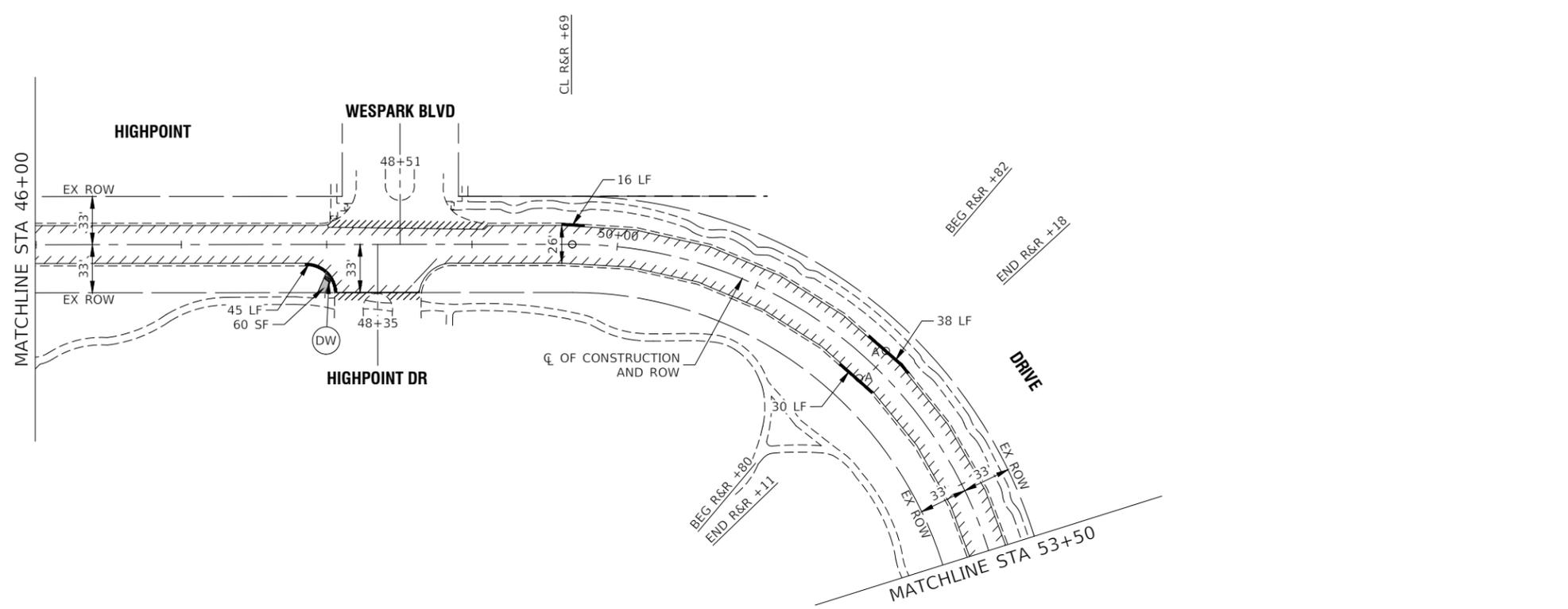
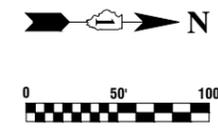
- HOT-MIX ASPHALT SURFACE REMOVAL, 2"
- POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4"
- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 1 1/2"
- SIDEWALK REMOVAL
PCC SIDEWALK 5 INCH (6 INCH THRU DRIVEWAYS)
AGGREGATE BASE COURSE, TYPE B 4"
- CLASS D PATCHES, 7 INCH
AGGREGATE BASE REPAIR (AS DIRECTED BY THE ENGINEER)
PREPARATION OF BASE (AS DIRECTED BY ENGINEER)
- DRIVEWAY PAVEMENT REMOVAL
PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6"
- DETECTABLE WARNINGS
- COMBINATION CURB AND GUTTER REMOVAL
COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- "A" DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED
- "R" DRAINAGE & UTILITY STRUCTURES TO BE RECONSTRUCTED
- 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)
- EXISTING ROAD CLOSED SIGN



NOTE:

ALL SIDEWALK RAMPS SHALL BE IN ACCORDANCE WITH THE FOLLOWING HIGHWAY STANDARDS: 424001-12, 424006-06, 424011-05, 424016-06, 424021-07, 424026-04

FILE NAME = 24R0406-PLAN-01 - P01	USER NAME =	DESIGNED -- WD	REVISED --	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HIGHPOINT DRIVE ROADWAY RESURFACING PROPOSED IMPROVEMENT PLAN			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED --	REVISED --		0242	24-00078-00-RS	WILL	20	9			
	PLOT SCALE =	DRAWN -- DS	REVISED --		SCALE: 1"=50'			SHEET NO. 9 OF 20 SHEETS			STA. 26+77.11 TO STA. 46+00	
	PLOT DATE = 12-18-2024	CHECKED -- AG	REVISED --		CONTRACT NO. 61L13			FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT V1SZ(169)		



LEGEND

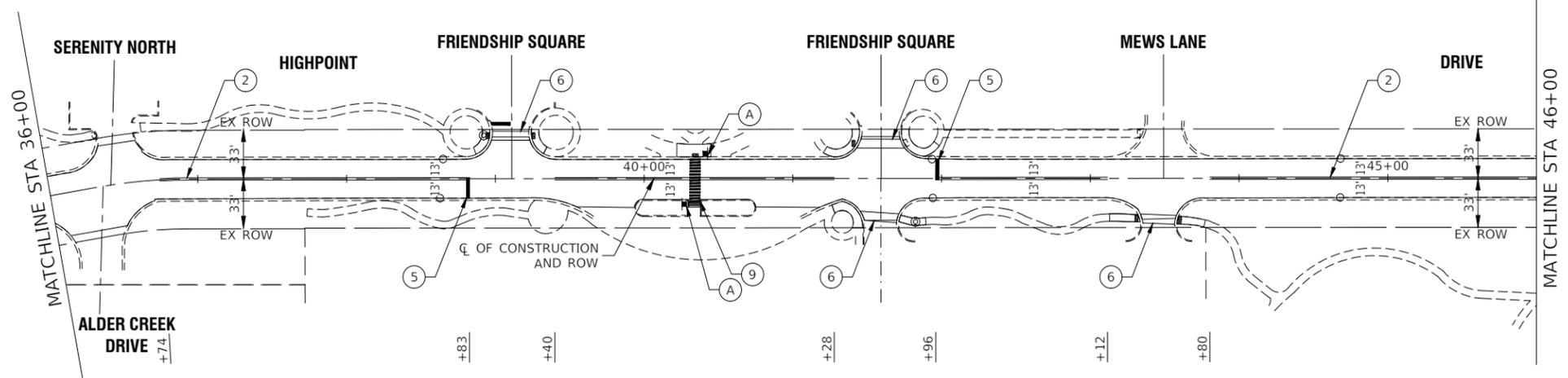
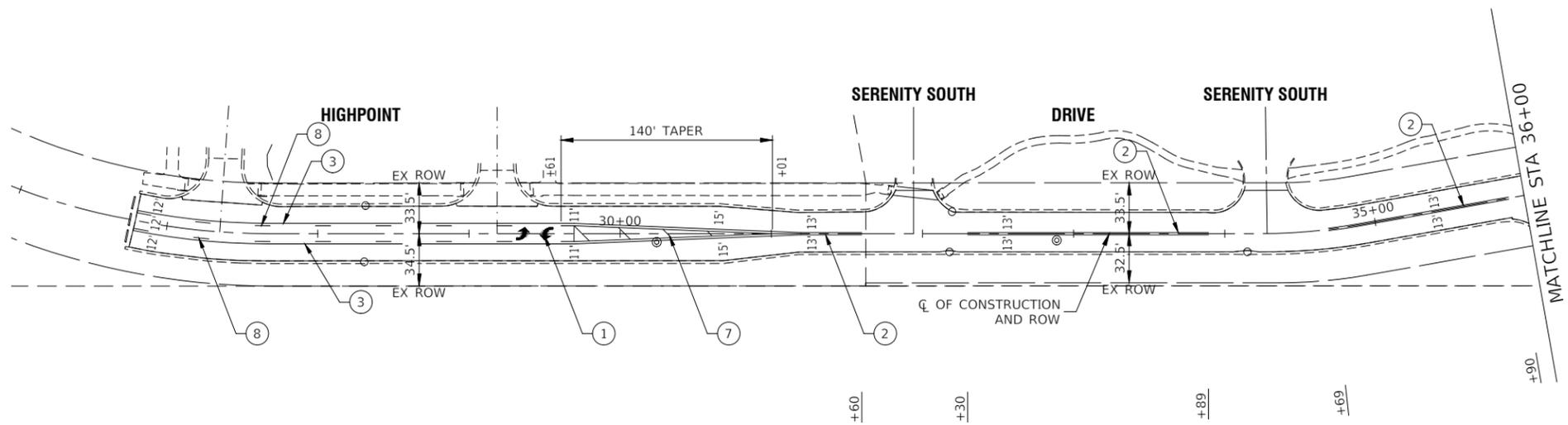
- HOT-MIX ASPHALT SURFACE REMOVAL, 2"
- POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4"
- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 1 1/2"
- SIDEWALK REMOVAL
PCC SIDEWALK 5 INCH (6 INCH THRU DRIVEWAYS)
AGGREGATE BASE COURSE, TYPE B 4"
- CLASS D PATCHES, 7 INCH
AGGREGATE BASE REPAIR (AS DIRECTED BY THE ENGINEER)
PREPARATION OF BASE (AS DIRECTED BY ENGINEER)
- DRIVEWAY PAVEMENT REMOVAL
PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6"
- DETECTABLE WARNINGS
- COMBINATION CURB AND GUTTER REMOVAL
COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- "A" DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED
- "R" DRAINAGE & UTILITY STRUCTURES TO BE RECONSTRUCTED
- 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)
- EXISTING ROAD CLOSED SIGN

NOTE:

ALL SIDEWALK RAMPS SHALL BE IN ACCORDANCE WITH THE FOLLOWING HIGHWAY STANDARDS: 424001-12, 424006-06, 424011-05, 424016-06, 424021-07, 424026-04

THE CURB RAMP AND DEPRESSED CURB AND GUTTER AT APPROX. STA. 63+70 SHALL BE REMOVED AND REPLACED WITH PCC SIDEWALK 5" AND COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12

FILE NAME = 24R0406-PLAN-01 - P02	USER NAME =	DESIGNED -- WD	REVISED --	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HIGHPOINT DRIVE ROADWAY RESURFACING PROPOSED IMPROVEMENT PLAN	F.A.U. RTE. 0242	SECTION 24-00078-00-RS	COUNTY WILL	TOTAL SHEETS 20	SHEET NO. 10		
	PLOT SCALE =	DRAWN -- DS	REVISED --			SCALE: 1"=50'	SHEET NO. 10 OF 20 SHEETS	STA. 46+00	TO STA. 63+92.22	CONTRACT NO. 61L13		
	PLOT DATE = 12-18-2024	CHECKED -- AG	REVISED --			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT V1SZ(169)						



PAVEMENT MARKING LEGEND

- ① THERMOPLASTIC PAVEMENT MARKING - WHITE LETTERS & SYMBOLS
- ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" DOUBLE YELLOW LINE (11" C-C)
- ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW
- ④ THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE LANE LINE
- ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 24" WHITE STOP BAR LINE
- ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE CROSS-WALK (6' C-C)
- ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" YELLOW DIAGONAL LINE (45° ANGLE, 20' C-C)
- ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW SKIP DASH (10' LINE-30' SPACE)
- ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE CROSSWALK (2' C-C)
- DETECTOR LOOP REPLACEMENT



W11-2
30"X30"



W16-7p
24"X12"
15.5' POST

A

NOTES

1. SEE TC-13 DISTRICT ONE TYPICAL PAVEMENT MARKING FOR GUIDANCE.
2. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE SHOWN.
3. PROPOSED SIGN POST TYPE SHALL BE TELESCOPING STEEL SIGN SUPPORT.

FILE NAME = 24R0406-PVMK-01 - P01

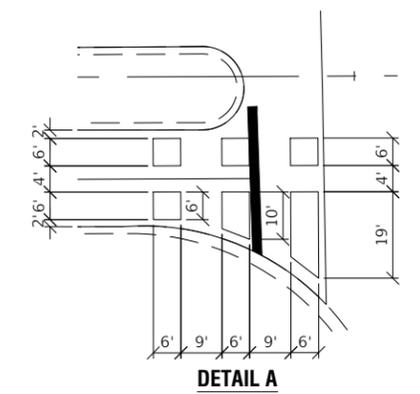
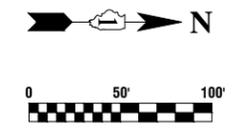
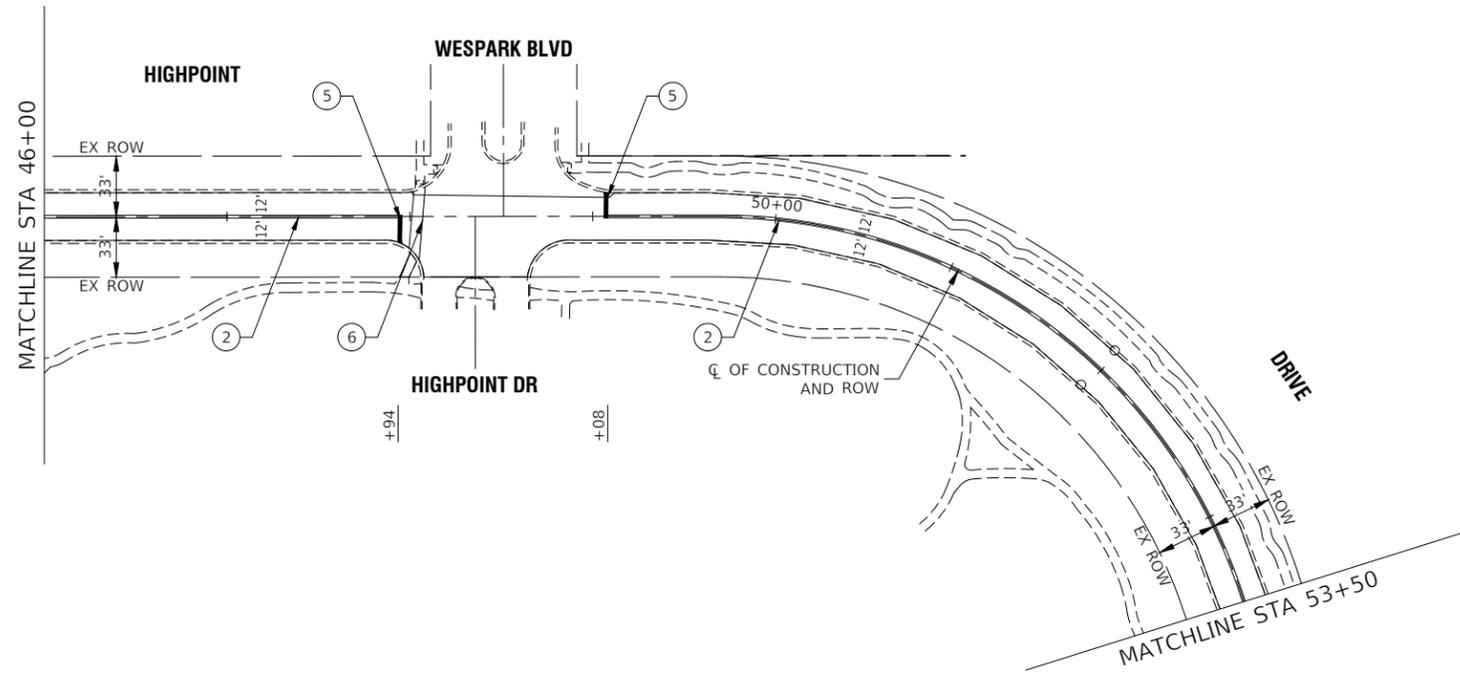
USER NAME =	DESIGNED -- WD	REVISED --
	CHECKED --	REVISED --
PLOT SCALE =	DRAWN -- DS	REVISED --
PLOT DATE = 12-18-2024	CHECKED -- AG	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

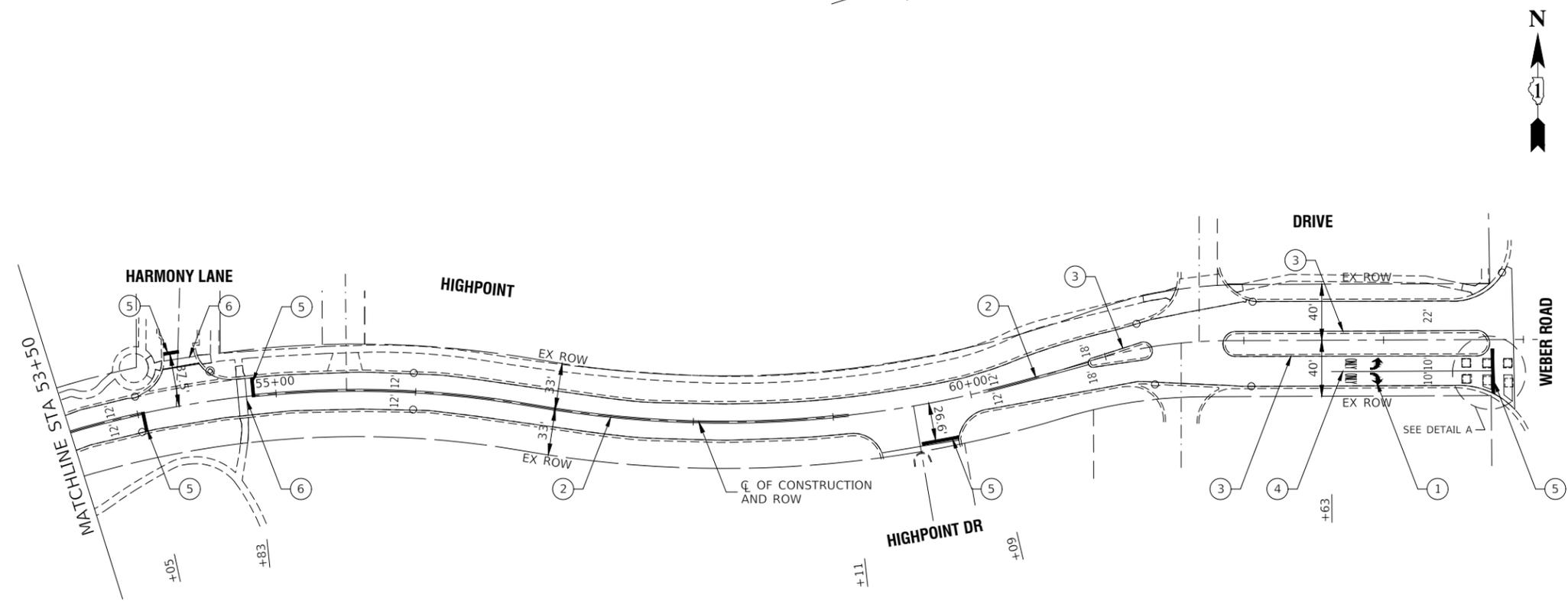
HIGHPOINT DRIVE
ROADWAY RESURFACING
PAVEMENT MARKING & SIGNING

SCALE: 1"=50' SHEET NO. 11 OF 20 SHEETS STA. 26+77.11 TO STA. 46+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0242	24-00078-00-RS	WILL	20	11
CONTRACT NO. 61L13				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT V1SZ(169)				



DETAIL A
DETECTOR LOOP REPLACEMENT DETAIL
SCALE 1"=20'



W11-2
30"X30"
W16-7p
24"X12"
15.5' POST
A

PAVEMENT MARKING LEGEND

- ① THERMOPLASTIC PAVEMENT MARKING - WHITE LETTERS & SYMBOLS
- ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" DOUBLE YELLOW LINE (11" C-C)
- ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW
- ④ THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE LANE LINE
- ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 24" WHITE STOP BAR LINE
- ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE CROSS-WALK (6' C-C)
- ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" YELLOW DIAGONAL LINE (45° ANGLE, 20' C-C)
- ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW SKIP DASH (10' LINE-30' SPACE)
- ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE CROSSWALK (2' C-C)
- 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.
3. PROPOSED SIGN POST TYPE SHALL BE TELESCOPING STEEL SIGN SUPPORT.

FILE NAME = 24R0406-PVMK-01 - P02	USER NAME =	DESIGNED -- WD	REVISED --
		CHECKED --	REVISED --
	PLOT SCALE =	DRAWN -- DS	REVISED --
	PLOT DATE = 12-18-2024	CHECKED -- AG	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HIGHPOINT DRIVE ROADWAY RESURFACING PAVEMENT MARKING & SIGNING			
SCALE: 1"=50'	SHEET NO. 12 OF 20 SHEETS	STA. 46+00 TO STA. 63+92.22	

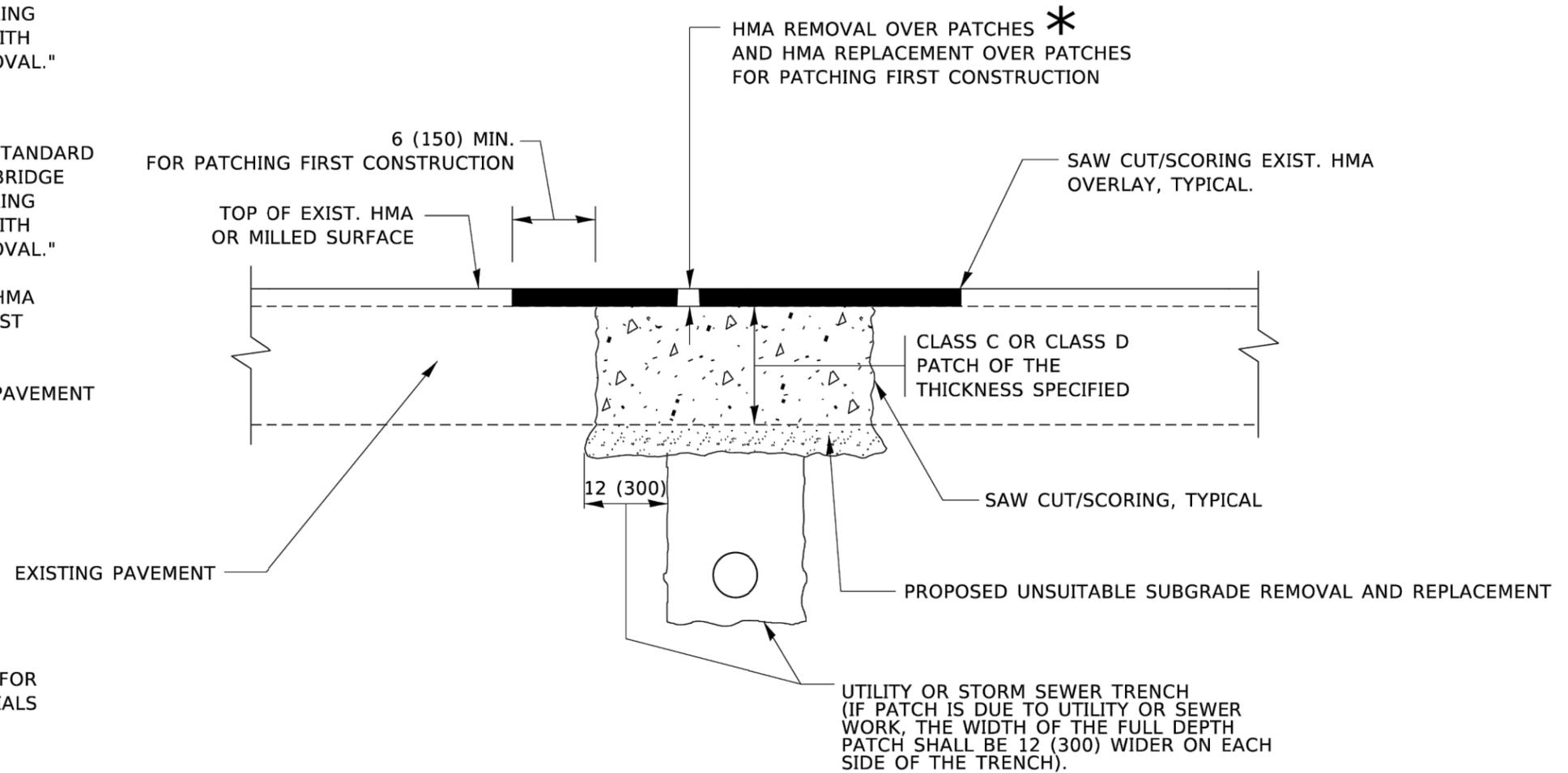
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0242	24-00078-00-RS	WILL	20	12
CONTRACT NO. 61L13				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT V1SZ(169)				

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.



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

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)

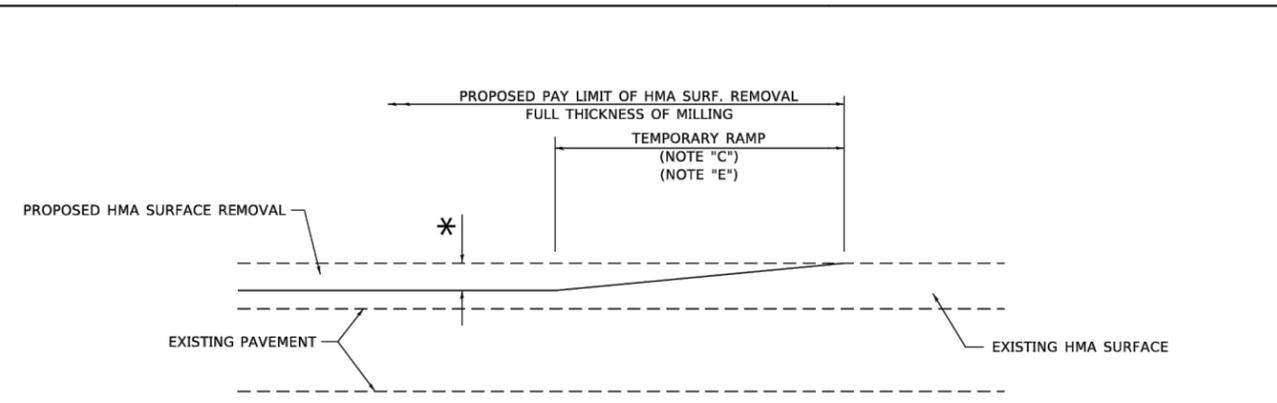
1. MILL HMA FIRST IF THERE IS AT LEAST 4½ INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

FILE NAME: p:\1\1000-pw-bentley.com\p\1\1000\Documents\DOT Offices\District 1\Projects\11182022\31\CAD\Drawings\CAD\Sheet\bd22.dgn

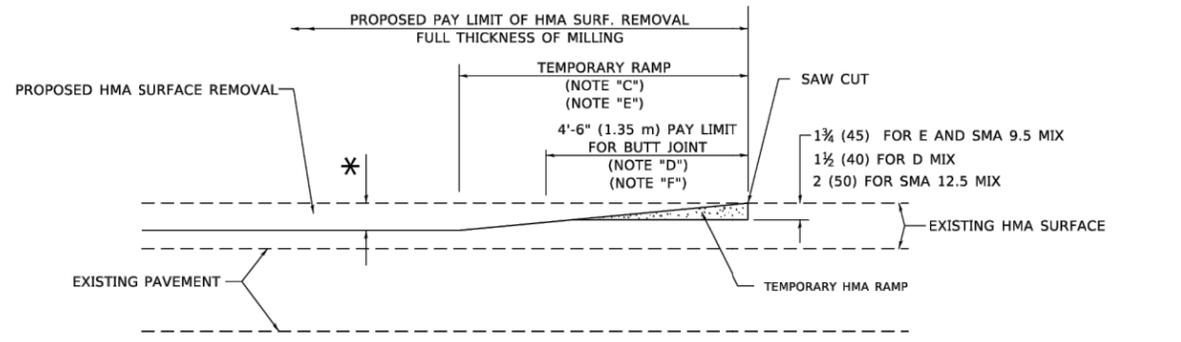
USER NAME = Lawrence.DeManche	DESIGNED - R. SHAH	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - R. BORO 09-04-07			SCALE: NONE	SHEET 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						
		REVISED - K. SMITH 11-18-22									

FILE NAME = 24R0406-DTSL-01 - BD22	USER NAME =	DESIGNED --	REVISED --	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CONSTRUCTION DETAILS	F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
		CHECKED --	REVISED --			SCALE:	SHEET NO. 13 OF 20 SHEETS	STA. TO STA.	0242 24-00078-00-RS WILL 20 13 CONTRACT NO. 61L13			
		DRAWN --	REVISED --			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT V1SZ(169)						
		CHECKED --	REVISED --									



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

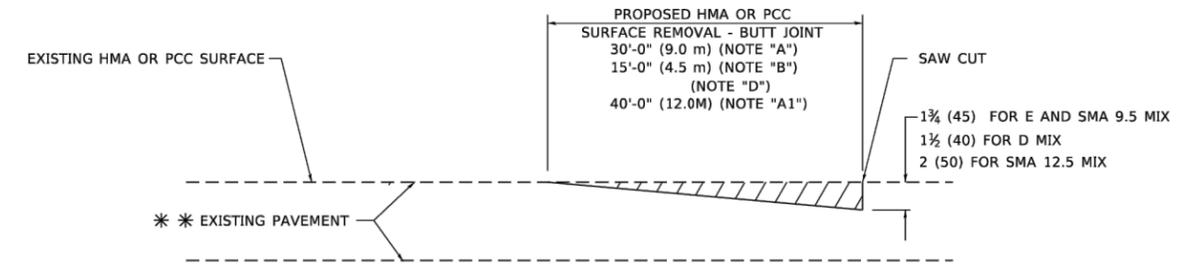
OPTION 1



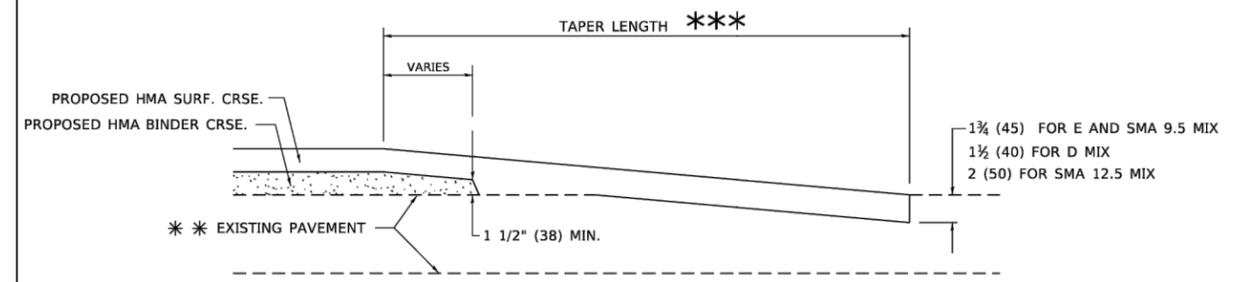
HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

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

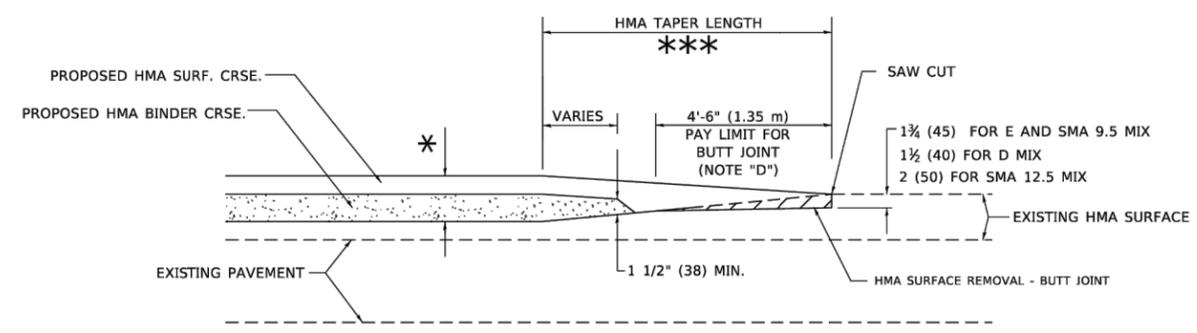
GENERAL NOTES

- 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.



BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

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

SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			BD400-05	BD-32			
			CONTRACT NO.				
			ILLINOIS FED. AID PROJECT				

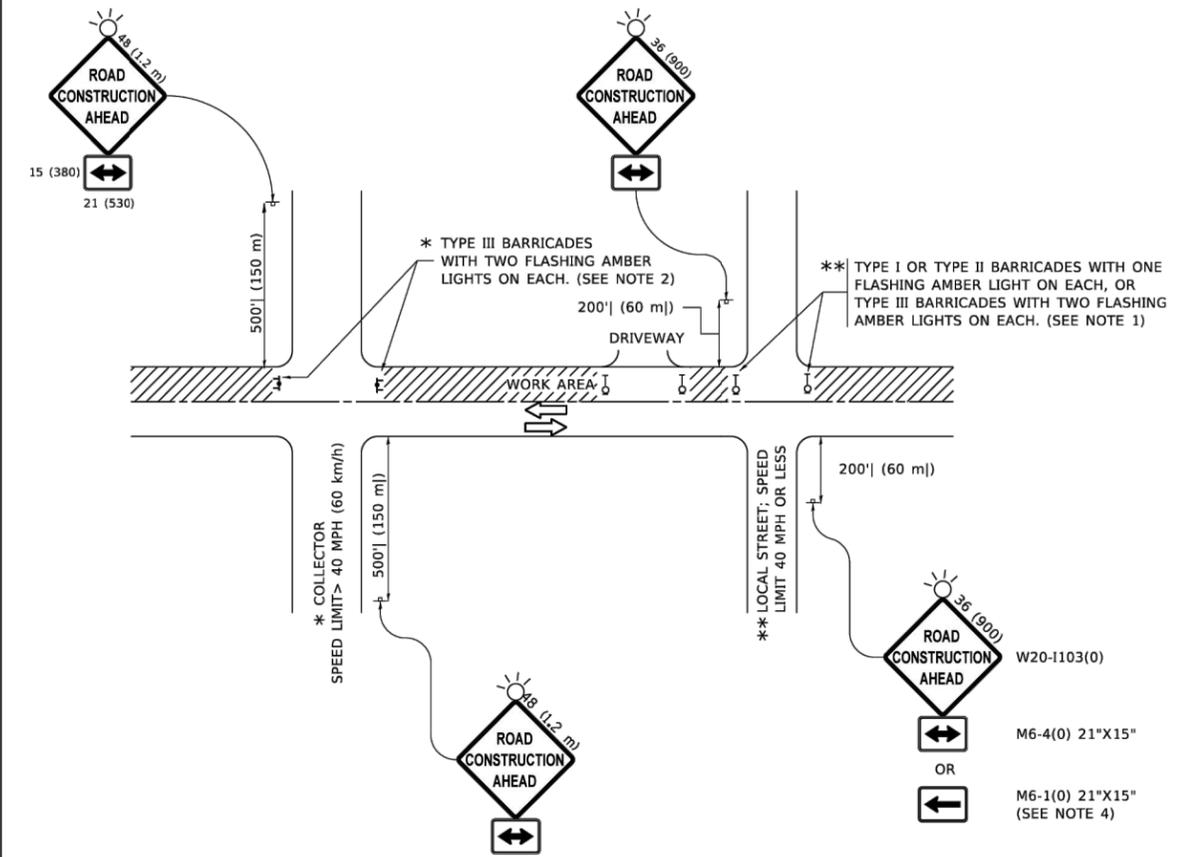
FILE NAME = 24R0406-DTLS-01 - BD32

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

SCALE:	SHEET NO. 14 OF 20 SHEETS	STA. TO STA.	F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			0242	24-00078-00-RS	WILL	20	14
			CONTRACT NO. 61L13				
			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT V1S2(169)				



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.
 - b) 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.
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.
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.

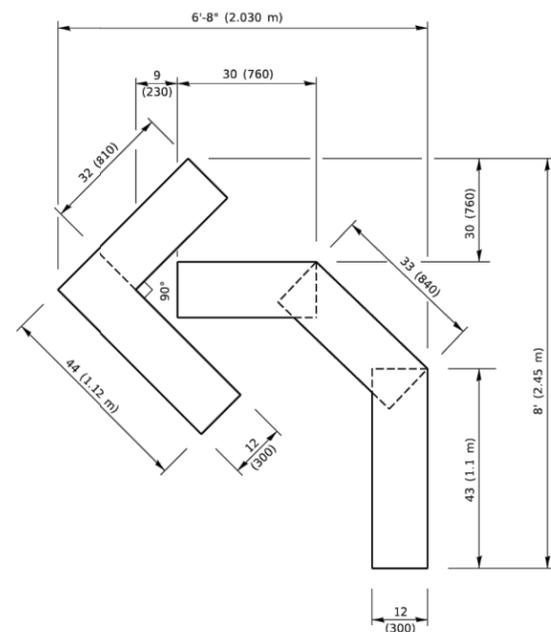
FILE NAME: p:\work-pw_bentley.com\p\work\Documents\DOT_Offices\District_1\Projects\515622\31\CA\03\03\CA\03\03\03.dgn

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

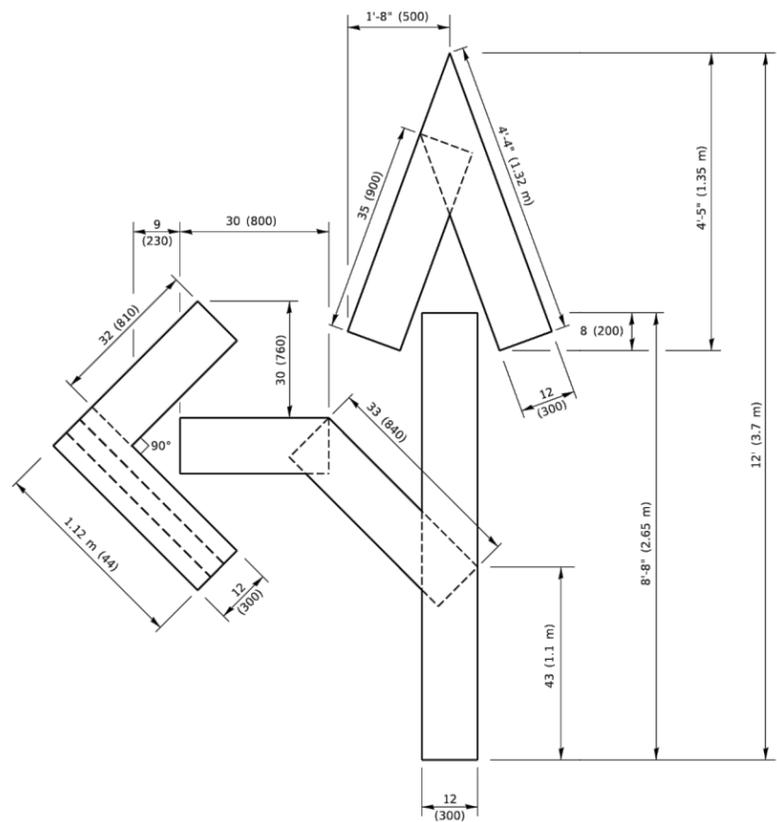
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.				TC-10 CONTRACT NO.				
								ILLINOIS FED. AID PROJECT				

FILE NAME = 24R0406-DTLS-01 - TC10	USER NAME =	DESIGNED --	REVISED --
		CHECKED --	REVISED --
	PLOT SCALE =	DRAWN --	REVISED --
	PLOT DATE =	CHECKED --	REVISED --

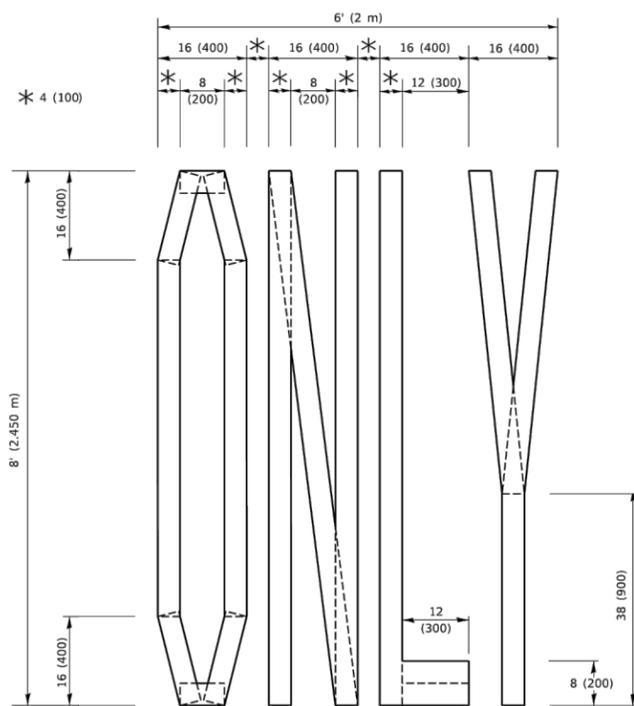
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				CONSTRUCTION DETAILS				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				SCALE: SHEET NO. 15 OF 20 SHEETS STA. TO STA.				0242 24-00078-00-RS WILL 20 15				
								FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT V1SZ(169) CONTRACT NO. 61L13				



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

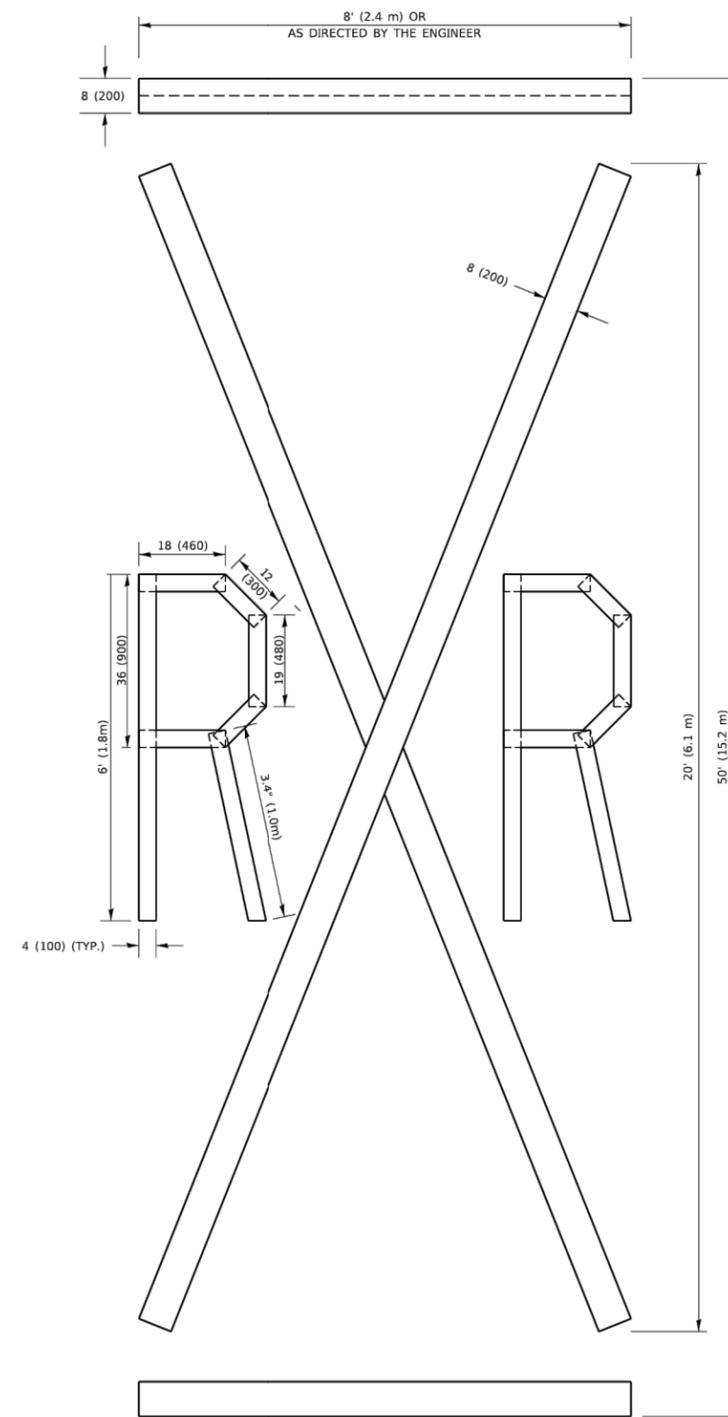


QUANTITY
 4 (100) LINE = 82.5 ft. (25.1 m)
 27.5 sq. ft. (2.53 sq. m)



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:\11\084EB\DOT\Illinois\gov\FWIDOT\Documents\DOT_Offices\District_1\Projects\054550224\CA\CA\DWG\CA\DWG\TC16.dwg

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.
	TC-16			
ILLINOIS FED. AID PROJECT			CONTRACT NO.	

FILE NAME = 24R0406-DTLS-01 - TC16

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

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

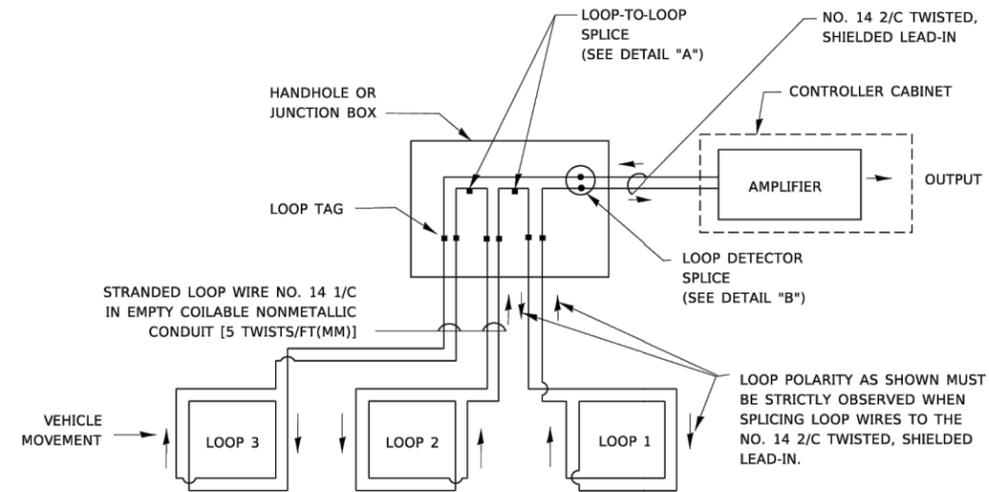
CONSTRUCTION DETAILS

SCALE: SHEET NO. 17 OF 20 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0242	24-00078-00-RS	WILL	20	17
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61L13	

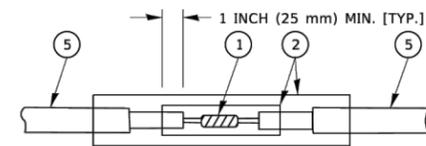
LOOP DETECTOR NOTES

- EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVESHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
- LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

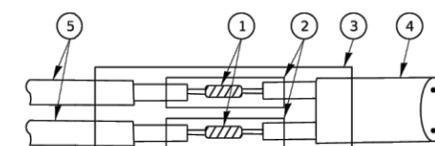


DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES. SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE,
- THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

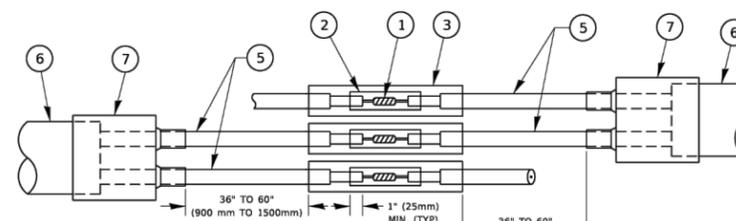


DETAIL "A"
LOOP-TO-LOOP SPLICE

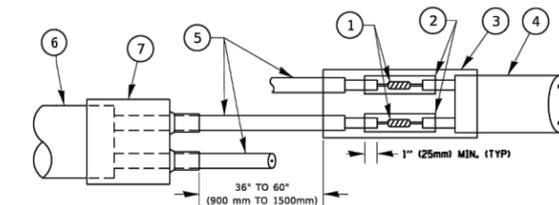


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



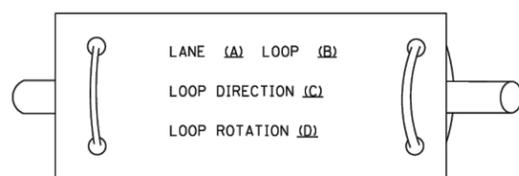
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PREFORMED LOOP

LOOP DETECTOR SPLICE

- WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- NO. 14 2/C TWISTED, SHIELDED CABLE.
- LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE, PREFORMED LOOP
- XL POLYOLEFIN 2 CONDUCTOR
- BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

LOOP LEAD-IN CABLE TAG



- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

FILE NAME: P:\11\084EB10NTEC\Illinois\gov\PM\DOT\Documents\DOT_Offices\District_1\Projects\01565922-34\CADD\Drawn\CAD\Sheet\105.dgn

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

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TS-05			CONTRACT NO.	
ILLINOIS FED. AID PROJECT				

FILE NAME = 24R0406-DTLS-01 - TS05B

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

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

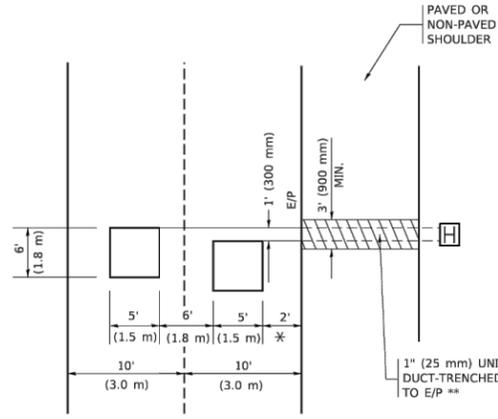
CONSTRUCTION DETAILS

SCALE: SHEET NO. 19 OF 20 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0242	24-00078-00-RS	WILL	20	19
CONTRACT NO. 61L13				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT V1SZ(169)				

LOOPS NEXT TO SHOULDERS

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

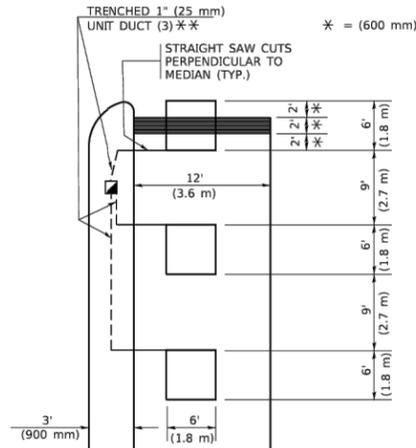


* = (600 mm)

** 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)

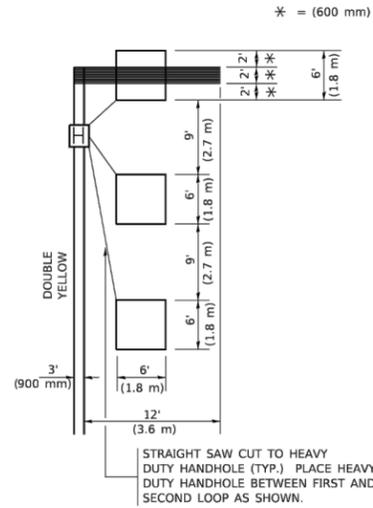
HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



** 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

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.

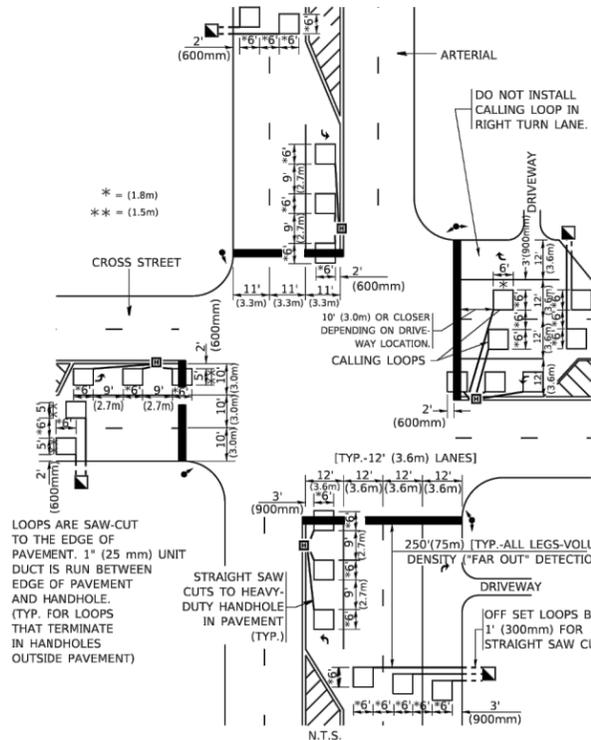
"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0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

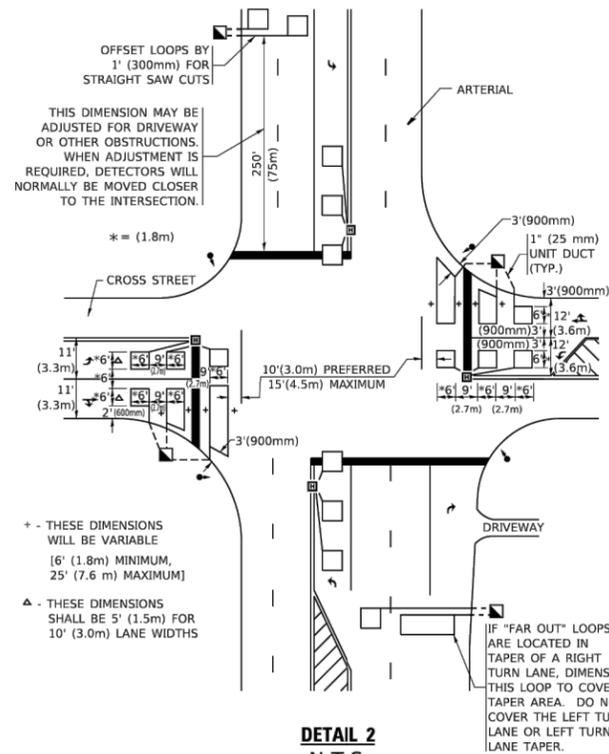
THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

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.

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

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TS-07			CONTRACT NO.	
ILLINOIS FED. AID PROJECT				

FILE NAME = 24R0406-DTLS-01 - TS07

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

SCALE: SHEET NO. 20 OF 20 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0242	24-00078-00-RS	WILL	20	20
CONTRACT NO. 61L13				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT V1SZ(169)				