

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	FAP 0337 22 RS	WILL	33	1
		ILLINOIS	CONTRACT NO. 62T69	

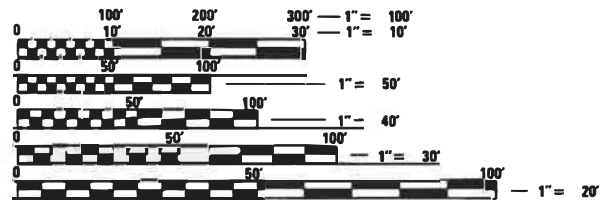
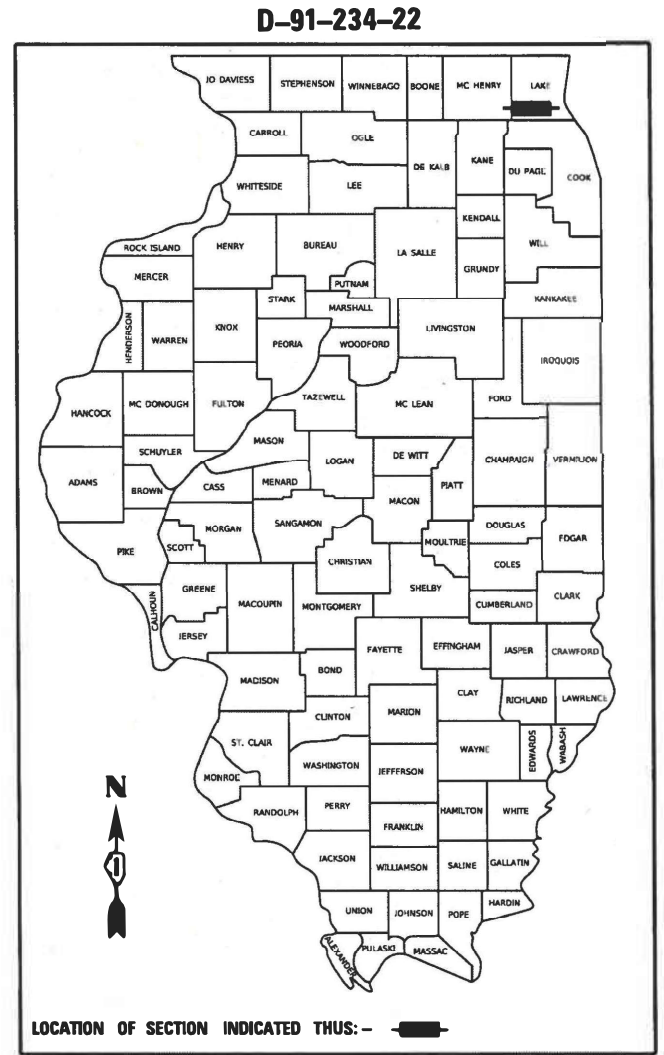
FOR INDEX OF SHEETS, SEE SHEET NO. 2

DESIGN DESIGNATION: OTHER PRINCIPAL ARTERIAL  
FAP ROUTE 0337: IL 22  
2021 ADT: 14,000 VPD  
SPEED LIMIT: VARIES 35-45 MPH

IMPROVEMENT LOCATED IN:  
VILLAGE OF LAKE ZURICH  
VILLAGE OF NORTH BARRINGTON  
VILLAGE OF LAKE BARRINGTON  
CUBA AND ELA TOWNSHIPS

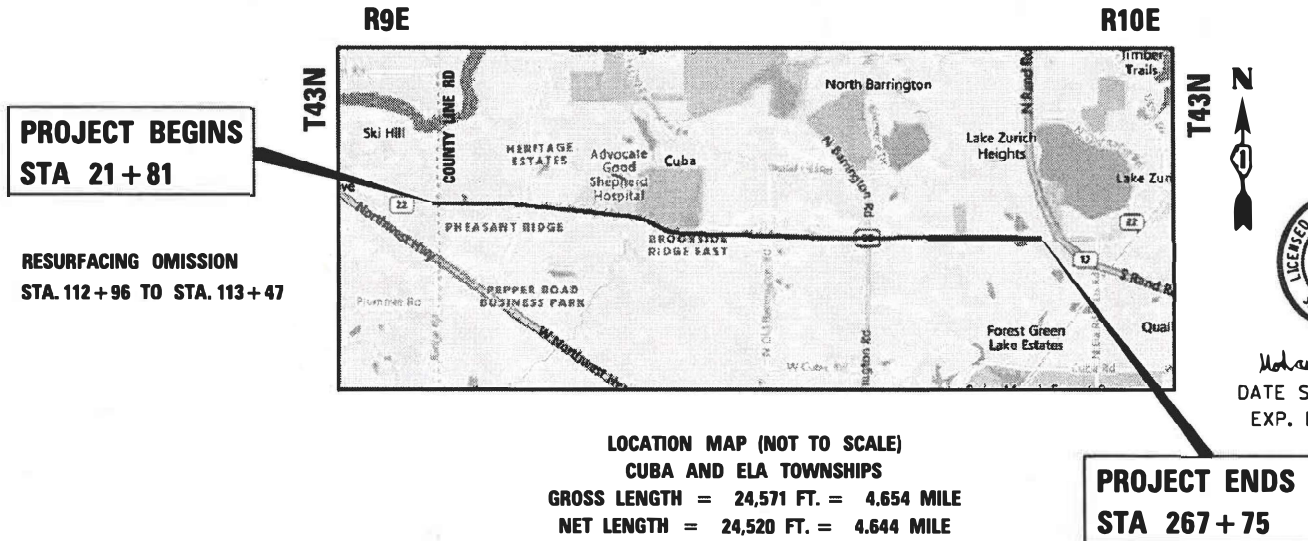
# PROPOSED HIGHWAY PLANS

FAP ROUTE 0337: IL 22  
FROM COUNTY LINE ROAD TO WEST OF US 12  
SECTION: FAP 0337 22 RS  
FEDERAL AID PROJECT NHPP-LUG8(337)  
SMART OVERLAY AND ADA RAMP IMPROVEMENTS  
LAKE COUNTY  
C-91-287-22



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

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



Mohammad H. Azim  
DATE SIGNED: 10-10-23  
EXP. DATE: 11-30-25

PROJECT ENGINEER MR. RODRIGO LEDEZMA, P.E. (847) 705-4580  
PROJECT MANAGER MR. J. ALAIN MIDY, P.E., (847) 221-3056

CONTRACT NO. 62T69



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED October 20 23  
Open Paved ICRS  
REGIONAL ENGINEER

March 22, 2024 [Signature]  
ENGINEER OF DESIGN AND ENVIRONMENT

March 22, 2024 [Signature]  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

## INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, STATE HIGHWAY STANDARDS, AND GENERAL NOTES
3-5	SUMMARY OF QUANTITIES
6-7	TYPICAL SECTIONS AND DETAILS
8-16	RESURFACING AND PAVEMENT MARKING PLAN
17-20	DETECTOR LOOP REPLACEMENT PLANS
21	BD-08 DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING
22	BD-22 PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
23	BD-32 BUTT JOINT AND HMA TAPER DETAILS
24	TC-10 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
25	TC-11 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
26	TC-13 DISTRICT ONE TYPICAL PAVEMENT MARKINGS
27	TC-14 TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
28	TC-16 SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS
29	TC-22 ARTERIAL ROAD INFORMATION SIGN
30	TC-26 DRIVEWAY ENTRANCE SIGNING
31	TS-07 DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING
32	PD-01 PROJECT DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS
33	PD-04 PROJECT DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS

## LIST OF STATE HIGHWAY STANDARDS

STANDARD NO.	TITLE
000001-08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
442201-03	CLASS C AND D PATCHES
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24''(600 MM) FROM PAVEMENT EDGE
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-04	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-09	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

## GENERAL NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED UTILITY FACILITIES. 48 HOUR NOTICE IS REQUIRED.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGES OF LAKE ZURICH, NORTH BARRINGTON, AND LAKE BARRINGTON.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR KALPANA KANNAN-HOSADURGA, AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK AND INSTALLATION.
- THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC FIELD AREA ENGINEER FADI SULTAN AT FADI.SULTAN@ILLINOIS.GOV. A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1½ INCHES. A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED AT A MINIMUM OF 1:3 (V:H).
- BUTT JOINTS SHALL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) ACCORDING TO THE "BD-32 BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURE AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS, OVERNIGHT CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING, RESURFACING, AND CLASS C AND D PATCHING OPERATIONS.
- THE CONTRACTOR SHALL EXERCISE CAUTION WHEN REMOVING OR EXCAVATING NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ABUTTING PROPERTIES AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- THE LOCATION OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, WATER MAINS, SANITARY SEWERS, AND ANY OTHER PUBLIC OR PRIVATE UTILITIES AS SHOWN ON THE PLANS IS APPROXIMATE AND THEIR EXACT LOCATION IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MIGHT NOT BE SHOWN IN THE PLANS. ANY UTILITY PROPERTY DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER.
- ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES WHICH OBSTRUCTS THE NATURAL FLOW OF WATER SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.
- THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS AT ALL TIMES DURING CONSTRUCTION.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- EXACT LOCATIONS OF PAVEMENT PATCHING AND CURB & GUTTER REMOVAL & REPLACEMENT WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- ALL PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE IMPROVEMENT ACCORDING TO THE DISTRICT 1 TYPICAL PAVEMENT MARKING STANDARD DETAIL.
- ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE III TAPE SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.
- TEN (10) FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER ITEMS OR WORK TO EXISTING CURBS AND GUTTERS UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK.
- SAW CUTTING OF SIDEWALK, CURB & GUTTER, ETC. SHALL BE TO FULL DEPTH AND SHALL RESULT IN A CLEAN STRAIGHT EDGE ON THE PORTION REMAINING. ALL SAW CUTTING SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEM REMOVED. FULL DEPTH SAW CUTTING IS NOT REQUIRED FOR CLASS C AND D PATCHES AND SHALL BE INCLUDED IN THE COST OF THE CLASS C AND D PATCHES.
- ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE PERFORMED BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.
- DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- ANY DETECTOR LOOPS DAMAGED OUTSIDE OF THE RESURFACING LIMITS SHALL BE REPLACED BY THE CONTRACTOR AT NO EXPENSE TO THE DEPARTMENT.
- CLASS D PATCHES, 4" WILL BE USED IN FRONT OF THE CURB AND GUTTER BEING REMOVED AND REPLACED UNLESS OTHERWISE NOTED.
- BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- ALL MILLED SURFACES SHALL BE AT A UNIFORM CROSS SLOPE PER LANE AND FREE OF RIDGES BETWEEN PASSES. ANY DEVIATIONS SHALL BE CORRECTED AT NO COST TO THE DEPARTMENT.
- EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
- STATION AND OFFSETS ARE APPROXIMATE.

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

INDEX OF SHEETS, STATE HIGHWAY STANDARDS, AND GENERAL NOTES	
IL 22 SMART OVERLAY AND ADA RAMP IMPROVEMENTS	
SCALE: NONE	SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0337	FAP 0337 22 RS	LAKE	33	2
CONTRACT NO. 62T69			ILLINOIS FED. AID PROJECT	

REV-SEP

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED	100% STATE
				ROADWAY	ROADWAY
				0005	0043
				URBAN	URBAN
20200100	EARTH EXCAVATION	CU YD	17	17	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	128	128	
25200110	SODDING, SALT TOLERANT	SQ YD	128	128	
25200200	SUPPLEMENTAL WATERING	UNIT	75	75	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	42748	42748	
40600370	LONGITUDINAL JOINT SEALANT	FOOT	29877	29877	
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	88	88	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	683	683	
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	7693	7693	
42001300	PROTECTIVE COAT	SQ YD	194	194	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	1017	1017	
42400800	DETECTABLE WARNINGS	SQ FT	90	90	
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	94995	94995	
44000600	SIDEWALK REMOVAL	SQ FT	1017	1017	

\* SPECIALTY ITEMS

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED	100% STATE
				ROADWAY	ROADWAY
				0005	0043
				URBAN	URBAN
44201690	CLASS D PATCHES, TYPE I, 4 INCH	SQ YD	17	17	
44201749	CLASS D PATCHES, TYPE I, 9 INCH	SQ YD	25	25	
44201753	CLASS D PATCHES, TYPE II, 9 INCH	SQ YD	600	600	
44201757	CLASS D PATCHES, TYPE III, 9 INCH	SQ YD	580	580	
44201759	CLASS D PATCHES, TYPE IV, 9 INCH	SQ YD	200	200	
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	5628	5628	
48203100	HOT-MIX ASPHALT SHOULDERS	TON	286	286	
60255500	MANHOLES TO BE ADJUSTED	EACH	1	1	
60260100	INLETS TO BE ADJUSTED	EACH	3	3	
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	4	4	
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	1	1	
60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	2	2	
60920012	PIPE CULVERTS TO BE CLEANED 12"	FOOT	120		120
60920015	PIPE CULVERTS TO BE CLEANED 15"	FOOT	120		120

\* SPECIALTY ITEMS

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
IL 22 SMART OVERLAY AND ADA RAMP IMPROVEMENTS**

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

F.A.P. RTE. 0337	SECTION FAP 0337 22 RS	COUNTY LAKE	TOTAL SHEETS 33	SHEET NO. 3
CONTRACT NO. 62T69			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
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				0005	0043
				URBAN	URBAN
*66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	15	15	
*66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2	
*66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1	
*66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1	
*66901006	REGULATED SUBSTANCES MONITORING	CAL DA	10	10	
67100100	MOBILIZATION	L SUM	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1	
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1	
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	27992	27992	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	13856	13856	
70300211	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - PAINT	SQ FT	802	802	
70300221	TEMPORARY PAVEMENT MARKING - LINE 4" - PAINT	FOOT	103550	103550	

\* SPECIALTY ITEMS

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED	100% STATE
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				0005	0043
				URBAN	URBAN
70300241	TEMPORARY PAVEMENT MARKING - LINE 6" - PAINT	FOOT	4226	4226	
70300251	TEMPORARY PAVEMENT MARKING - LINE 8" - PAINT	FOOT	225	225	
70300261	TEMPORARY PAVEMENT MARKING - LINE 12" - PAINT	FOOT	1645	1645	
70300281	TEMPORARY PAVEMENT MARKING - LINE 24" - PAINT	FOOT	375	375	
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	13996	13996	
*78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	843	843	
*78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	103550	103550	
*78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	4226	4226	
*78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	225	225	
*78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1645	1645	
*78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	375	375	
*78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	46	46	
*78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	150	150	
*78009008	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	FOOT	24	24	

\* SPECIALTY ITEMS

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
IL 22 SMART OVERLAY AND ADA RAMP IMPROVEMENTS**

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

F.A.P. RTE. 0337	SECTION FAP 0337 22 RS	COUNTY LAKE	TOTAL SHEETS 33	SHEET NO. 4
CONTRACT NO. 62T69			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
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				20% FED	
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				0005	0043
				URBAN	URBAN
* 78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	40	40	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	1260	1260	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	1260	1260	
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	40161	40161	
* 87300305	ELECTRIC CABLE IN TRENCH, LEAD-IN, NO. 14 1 PAIR	FOOT	225	225	
X0320050	CONSTRUCTION LAYOUT (SPECIAL)	L SUM	1	1	
X4400503	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT GREATER THAN 10 FEET	FOOT	227	227	
X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	75		75
X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	2	2	
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	12	12	
* X8860105	DETECTOR LOOP REPLACEMENT	FOOT	1637	1637	
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	5		5
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	59	59	

\* SPECIALTY ITEMS

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED	100% STATE
				20% FED	
				ROADWAY	ROADWAY
				0005	0043
				URBAN	URBAN

\* SPECIALTY ITEMS



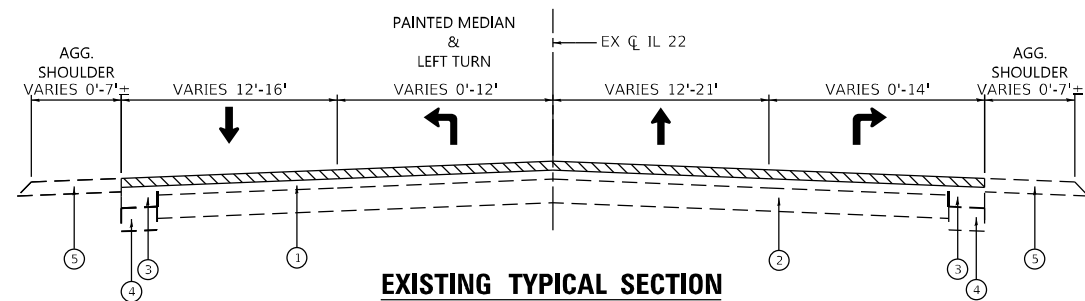
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**  
**IL 22 SMART OVERLAY AND ADA RAMP IMPROVEMENTS**

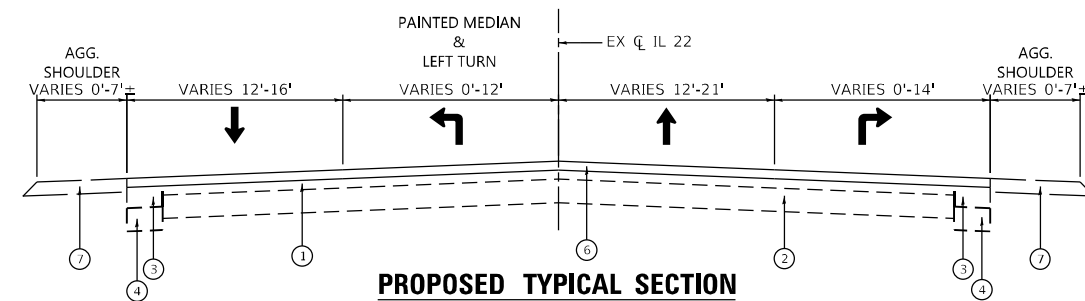
SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0337	FAP 0337 22 RS	LAKE	33	5
CONTRACT NO. 62T69				
ILLINOIS		FED. AID PROJECT		



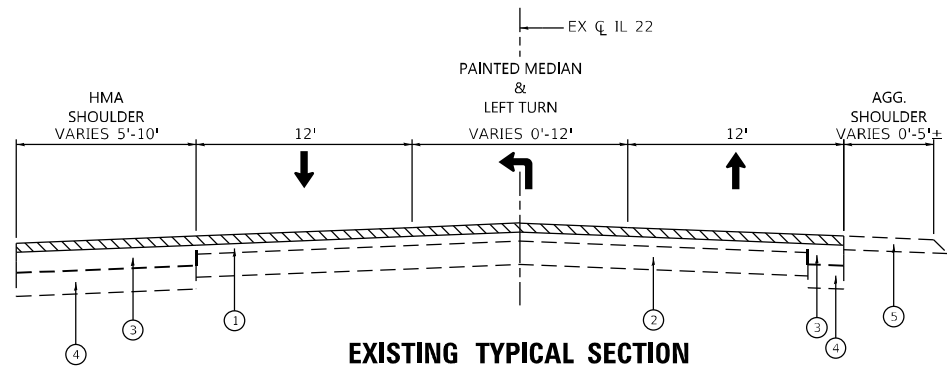
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STA 21+81 TO STA 191+32  
OMISSION: STA 112+96 TO STA 113+47



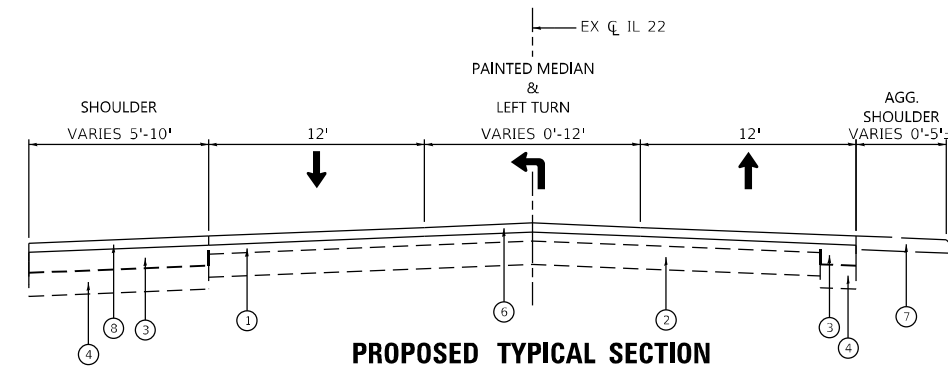
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STA 21+81 TO STA 191+32  
OMISSION: STA 112+96 TO STA 113+47



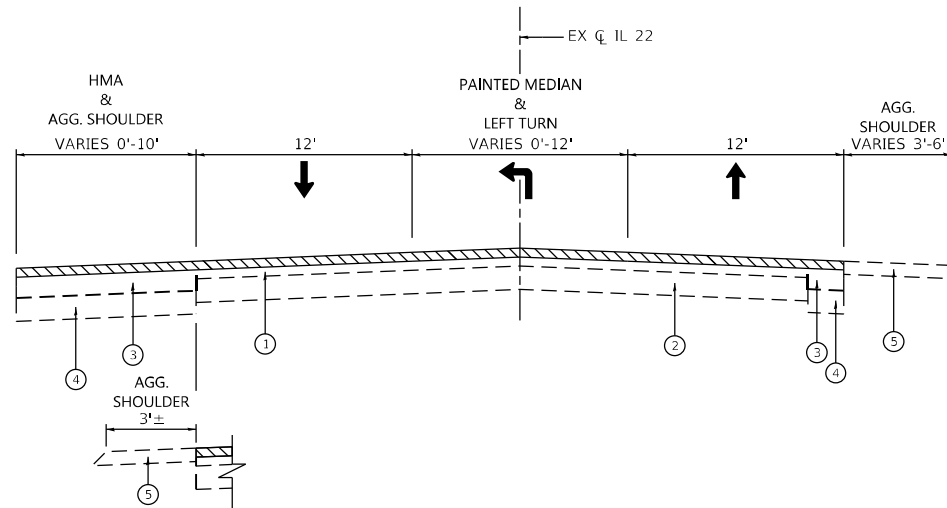
**EXISTING TYPICAL SECTION**

STA 191+32 TO STA 199+26



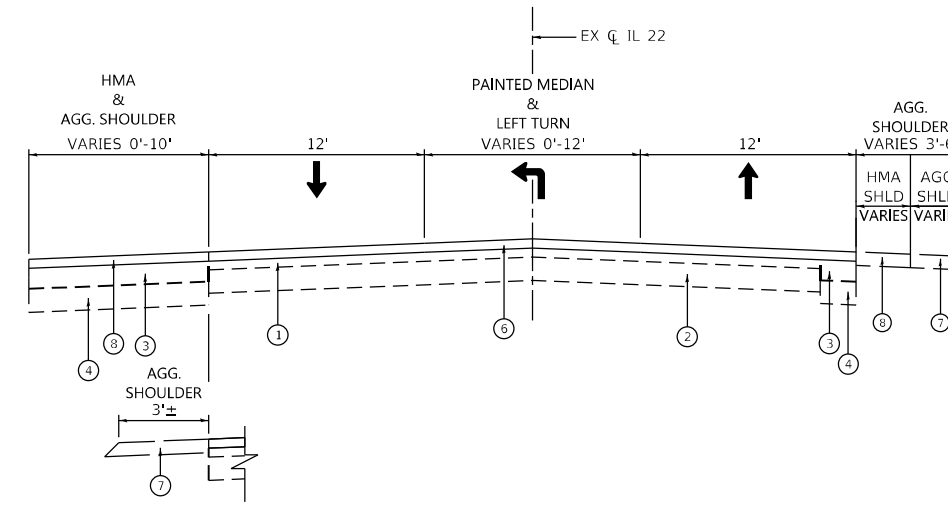
**PROPOSED TYPICAL SECTION**

STA 191+32 TO STA 199+26



**EXISTING TYPICAL SECTION**

STA 199+26 TO STA 211+00



**PROPOSED TYPICAL SECTION**

STA 199+26 TO STA 211+00

**HMA MIXTURE REQUIREMENTS CHART**

OPERATION	MIXTURE TYPE	AIR VOIDS (%) @ Ndes	QUALITY MANAGEMENT PROGRAM (QMP)
PAVEMENT RESURFACING	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70, 1½"	4% @ 70 Gyr.	QCP
HOT-MIX ASPHALT SHOULDERS	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70, 1½"	4% @ 70 Gyr.	QC/QA
CLASS D PATCHES	HOT-MIX ASPHALT BINDER, IL-19.0	4% @ 70 Gyr.	QC/QA
QUALITY MANAGEMENT PROGRAM (QMP) DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA) QUALITY CONTROL FOR PERFORMANCE (QCP)			

**LEGEND**

- HOT-MIX ASPHALT SURFACE REMOVAL, 1½"
- EXISTING REMAINING HMA AFTER MILLING, 9½"±
- EXISTING PCC PAVEMENT 10"
- EXISTING HMA BASE COURSE 10½"
- EXISTING AGG. SUBBASE 12"
- EXISTING AGG. SHOULDER
- PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70, 1½"
- AGG. WEDGE SHOULDER TYPE B
- HOT-MIX ASPHALT SHOULDERS (1½")

**NOTES**

1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 LB/SY/IN.
2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR 76-22", AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.
3. LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER MILLED SURFACE.
4. CONTRACTOR SHALL MILL BEFORE PATCHING.

MODEL: D:\a\illinois\0337\0337\_0005\_IDOT\_DRAWING\_43\_62T69\_IL22\_SMART\_OVERLAY\_AND\_ADA\_RAMP\_IMPROVEMENTS.dwg

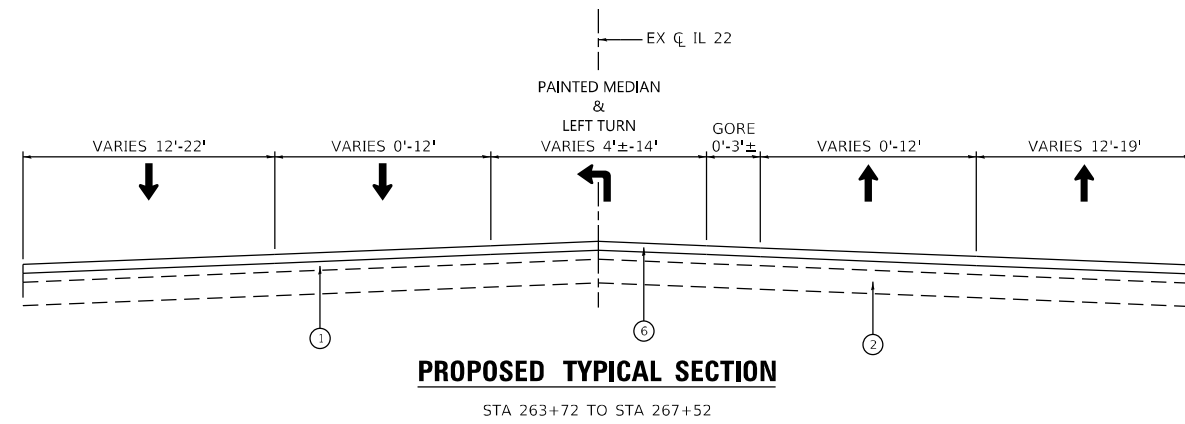
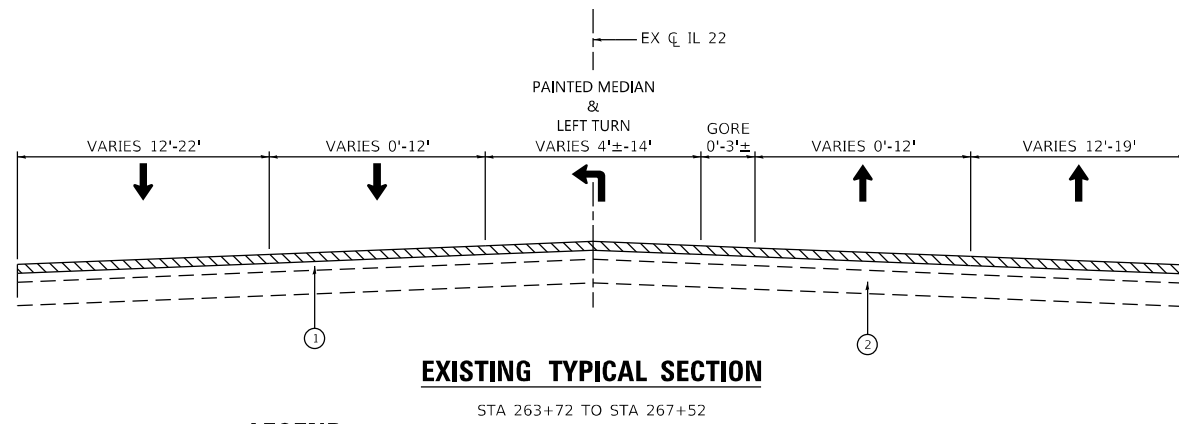
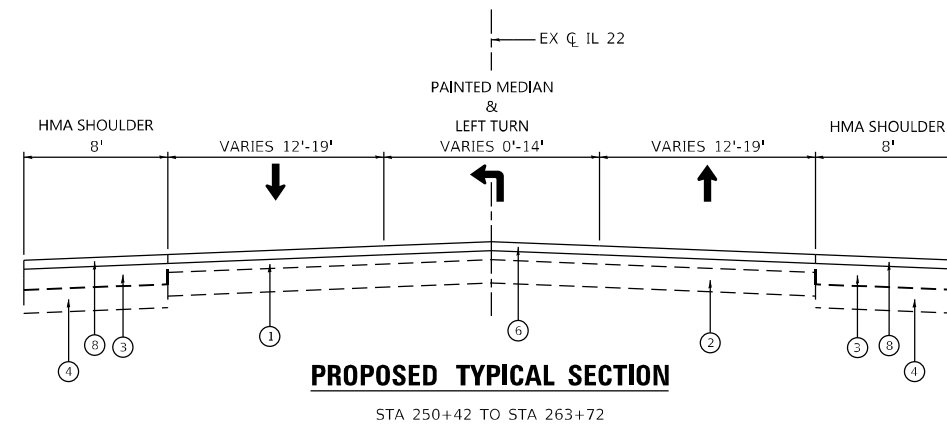
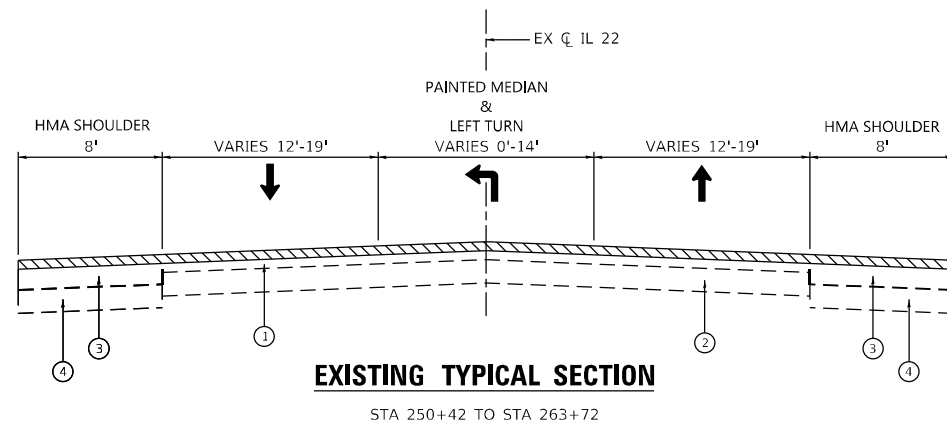
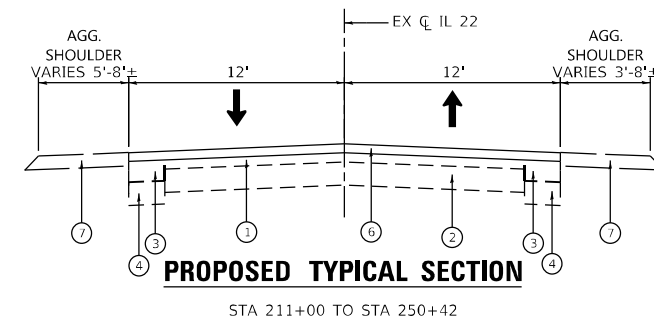
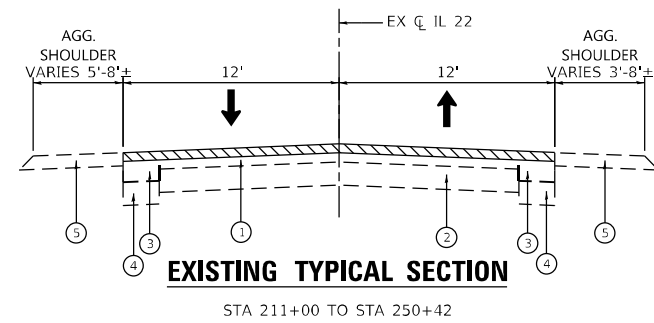


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PLOT SCALE = 10,6667' / in.	DRAWN - MMA	REVISED -
PLOT DATE = 1/30/2024	CHECKED - DC	REVISED -
	DATE - 08/25/2023	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTIONS AND DETAILS</b>	
<b>IL 22 SMART OVERLAY AND ADA RAMP IMPROVEMENTS</b>	
SCALE: NONE	SHEET 1 OF 2 SHEETS
STA.	TO STA.

F.A.P. RTE. 0337	SECTION FAP 0337 22 RS	COUNTY LAKE	TOTAL SHEETS 33	SHEET NO. 6
CONTRACT NO. 62T69				
ILLINOIS FED. AID PROJECT				



**LEGEND**

- HOT-MIX ASPHALT SURFACE REMOVAL, 1½"
- ① EXISTING REMAINING HMA AFTER MILLING, 9½"±
- ② EXISTING PCC PAVEMENT 10"
- ③ EXISTING HMA BASE COURSE 10½"
- ④ EXISTING AGG. SUBBASE 12"
- ⑤ EXISTING AGG. SHOULDER
- ⑥ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70, 1½"
- ⑦ AGG. WEDGE SHOULDER TYPE B
- ⑧ HOT-MIX ASPHALT SHOULDERS (1½")

MODEL: D:\a\illinois\0337\0337\_02\0337\_02\_01.dwg FILE: 0337\_02\_01.dwg PLOT DATE: 1/30/2024



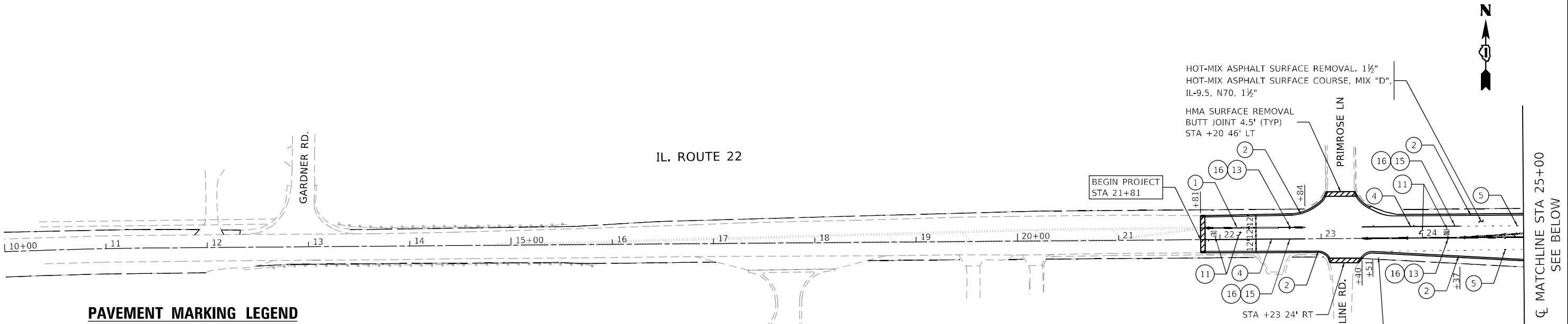
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DRAWN - MMA	REVISIONS -	
PLOT SCALE = 10,6667' / in.	CHECKED - DC	REVISIONS -
PLOT DATE = 1/30/2024	DATE - 08/25/2023	REVISIONS -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS AND DETAILS  
IL 22 SMART OVERLAY AND ADA RAMP IMPROVEMENTS**

SCALE: NONE SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE. 0337	SECTION FAP 0337 22 RS	COUNTY LAKE	TOTAL SHEETS 33	SHEET NO. 7
CONTRACT NO. 62T69				
ILLINOIS FED. AID PROJECT				

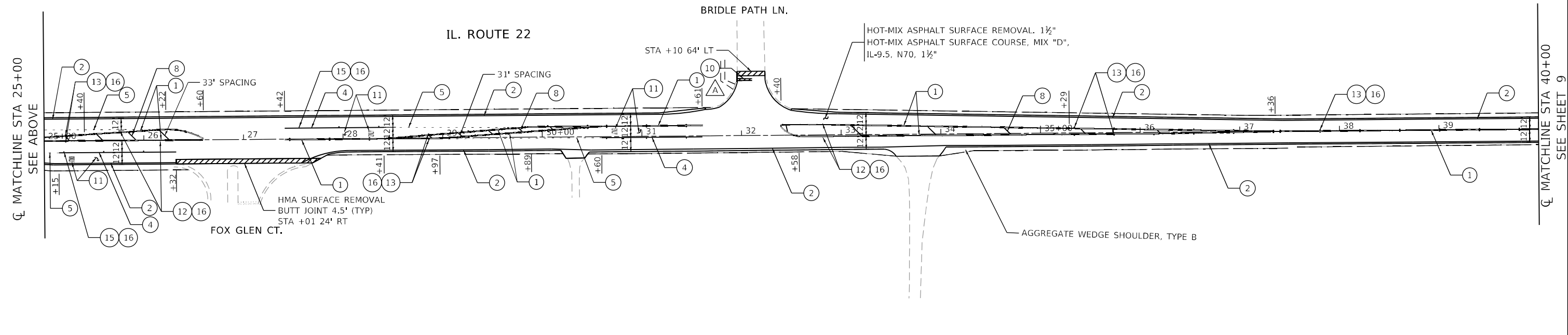


**PAVEMENT MARKING LEGEND**

- |  |  |   |
|--|--|---|
| ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID, DOUBLE CENTERLINE) | ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONALS @ 45°, 75' SPACING, UNLESS NOTED IN THE PLANS) | ⑭ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER MARKER) (80' C-C)            |
| ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID)                     | ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONALS @ 45°, 75' SPACING, UNLESS NOTED IN THE PLANS)  | ⑮ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL MARKER) (40' C-C)          |
| ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE 10'-30' SKIP LINE)         | ⑩ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP LINE)  | ⑯ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL MARKER) (80 C-C)           |
| ④ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID)                     | ⑪ THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (WHITE SOLID)   | ⑰ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW 10'-30' SKIP LINE)           |
| ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE 2'-6" SKIP LINE)           | ⑫ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER MARKER) (40' C-C)   | ⑱ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID)                       |
| ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID)                     | ⑬ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER MARKER) (40' C-C)   | ⑳ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE DIAGONALS AT 45°, 4' SPACING) |
| ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID)                    |  |   |

**SIDEWALK LEGEND**

- ▲ CURB RAMP IMPROVEMENT, SEE PD-01B
- ▲ CURB RAMP IMPROVEMENT, SEE PD-04A
- ▲ CURB RAMP IMPROVEMENT, SEE PD-04B
- ▲ REPLACE DETECTABLE WARNINGS ONLY



MODEL: D:\p\11...  
 FILE: W:\m\c...  
 MODEL: D:\p\11...  
 FILE: W:\m\c...



USER NAME = jldavis	DESIGNED - MMA	REVISED -
	DRAWN - MMA	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - DC	REVISED -
PLOT DATE = 1/30/2024	DATE - 08/25/2023	REVISED -

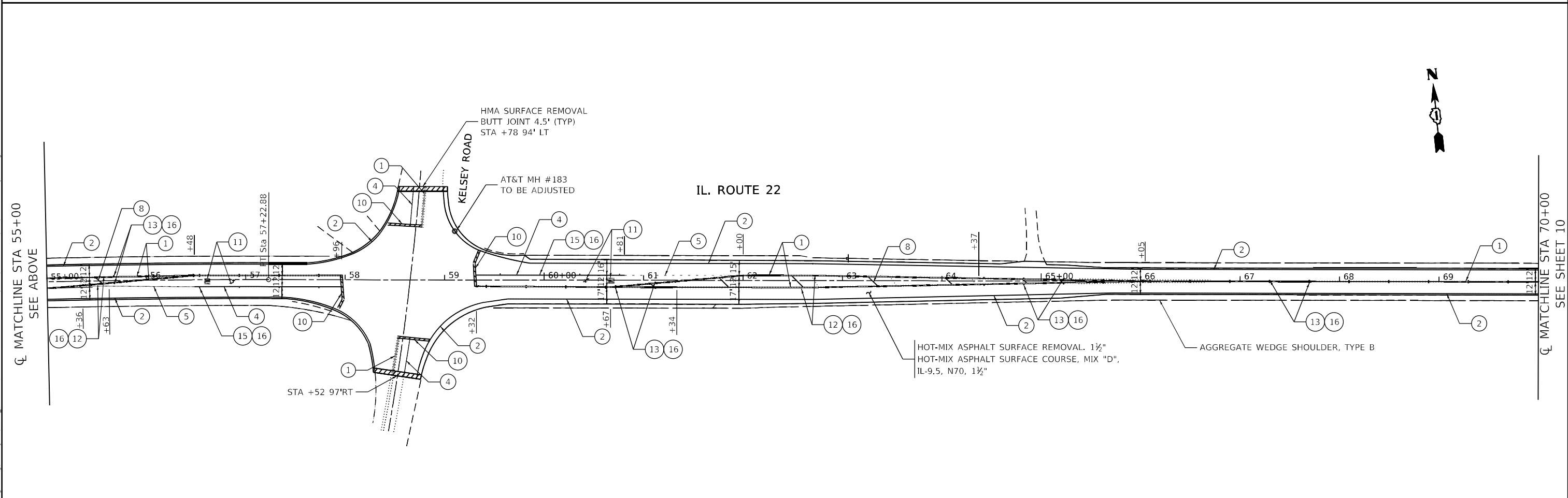
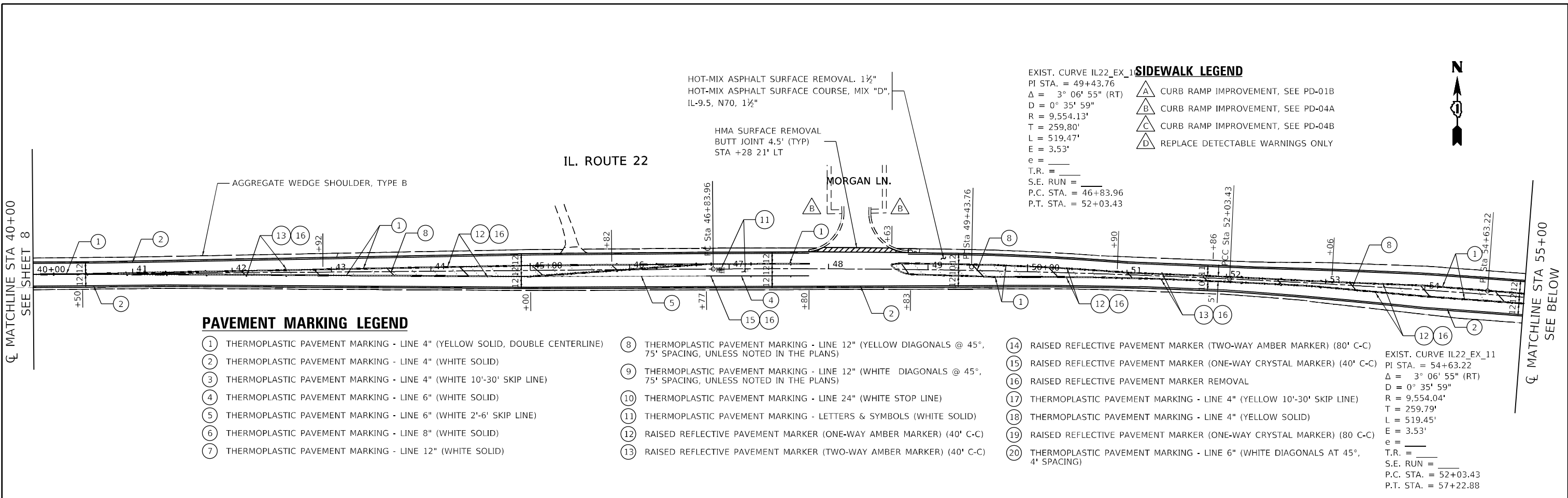
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**RESURFACING AND PAVEMENT MARKING PLAN  
IL 22 SMART OVERLAY AND ADA RAMP IMPROVEMENTS**

SCALE: 1"=50'    SHEET 1 OF 9 SHEETS    STA. 21+81    TO STA. 40+00

F.A.P. RTE. 0337	SECTION FAP 0337 22 RS	COUNTY LAKE	TOTAL SHEETS 33	SHEET NO. 8
CONTRACT NO. 62T69				
ILLINOIS FED. AID PROJECT				

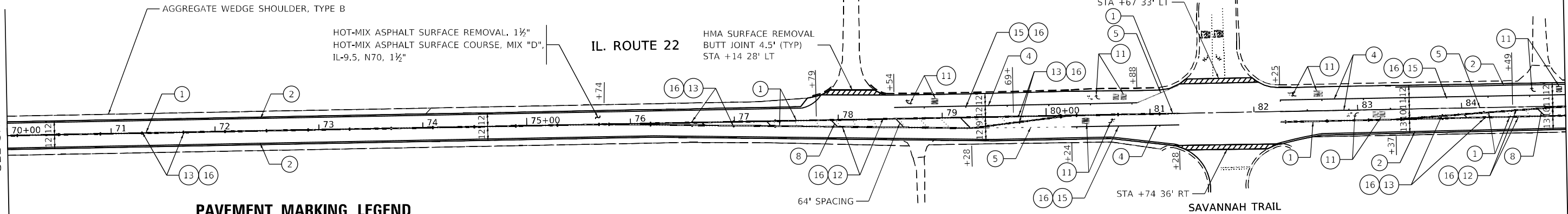




MODEL: D:\a\illinois\0337\FAP\0337\_22\_RS\0337\_22\_RS.dwg  
FILE: 0337\_22\_RS.dwg  
PLOT DATE: 1/30/2024

	USER NAME = jdavis	DESIGNED - MMA	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RESURFACING AND PAVEMENT MARKING PLAN IL 22 SMART OVERLAY AND ADA RAMP IMPROVEMENTS</b>		F.A.P. RTE. = 0337	SECTION = FAP 0337 22 RS	COUNTY = LAKE	TOTAL SHEETS = 33	SHEET NO. = 9
	PLOT SCALE = 100,000' / in.	CHECKED - DC	REVISED -		SCALE: 1"=50'	SHEET 2 OF 9 SHEETS	STA. 40+00 TO STA. 70+00	CONTRACT NO. 62T69			
PLOT DATE = 1/30/2024	DATE = 08/25/2023	REVISED -		ILLINOIS FED. AID PROJECT							

CL MATCHLINE STA 70+00  
SEE SHEET 9

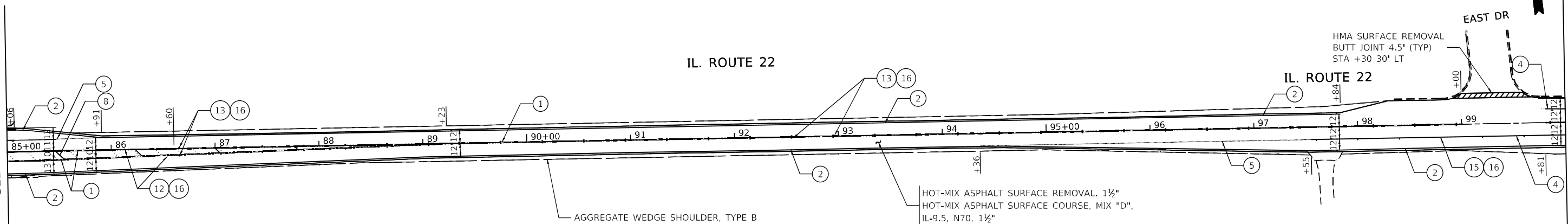


**PAVEMENT MARKING LEGEND**

- |  |  |   |
|--|--|---|
| ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID, DOUBLE CENTERLINE) | ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONALS @ 45°, 75' SPACING, UNLESS NOTED IN THE PLANS) | ⑭ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER MARKER) (80' C-C)            |
| ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID)                     | ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONALS @ 45°, 75' SPACING, UNLESS NOTED IN THE PLANS)  | ⑮ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL MARKER) (40' C-C)          |
| ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE 10'-30' SKIP LINE)         | ⑩ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP LINE)  | ⑯ RAISED REFLECTIVE PAVEMENT MARKER REMOVAL                                     |
| ④ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID)                     | ⑪ THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (WHITE SOLID)   | ⑰ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW 10'-30' SKIP LINE)           |
| ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE 2'-6' SKIP LINE)           | ⑫ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER MARKER) (40' C-C)   | ⑱ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID)                       |
| ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID)                     | ⑬ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER MARKER) (40' C-C)   | ⑲ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL MARKER) (80 C-C)           |
| ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID)                    |  | ⑳ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE DIAGONALS AT 45°, 4' SPACING) |

CL MATCHLINE STA 85+00  
SEE BELOW

CL MATCHLINE STA 85+00  
SEE ABOVE



CL MATCHLINE STA 100+00  
SEE SHEET 11

MODEL: D:\a\illinois\0337\FAP\0337\_22\_RS\0337\_22\_RS\_SmartOverlay.dwg  
 FILE: 0337\_22\_RS\_SmartOverlay.dwg  
 PROJECT: 0337\_22\_RS  
 DATE: 1/30/2024



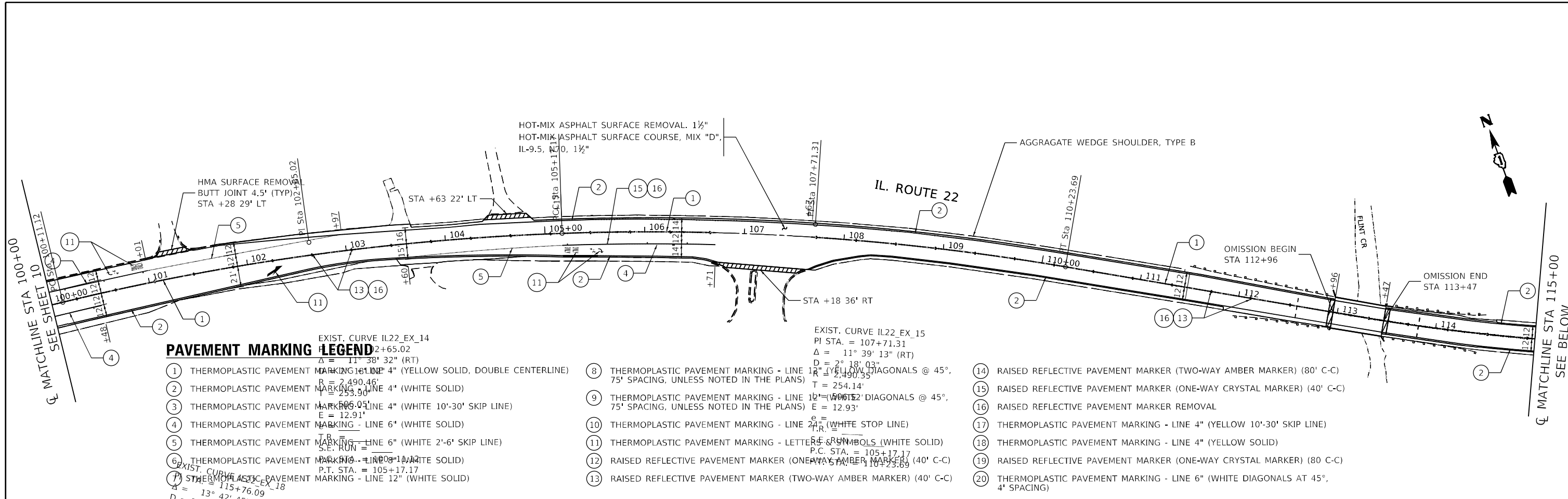
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PLOT SCALE = 100,0000' / in.	DRAWN - MMA	REVISED -
PLOT DATE = 1/30/2024	CHECKED - DC	REVISED -
	DATE - 08/25/2023	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**RESURFACING AND PAVEMENT MARKING PLAN  
IL 22 SMART OVERLAY AND ADA RAMP IMPROVEMENTS**

SCALE: 1"=50'    SHEET 3 OF 9 SHEETS    STA. 70+00    TO STA. 100+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0337	FAP 0337 22 RS	LAKE	33	10
CONTRACT NO. 62T69				
ILLINOIS   FED. AID PROJECT				



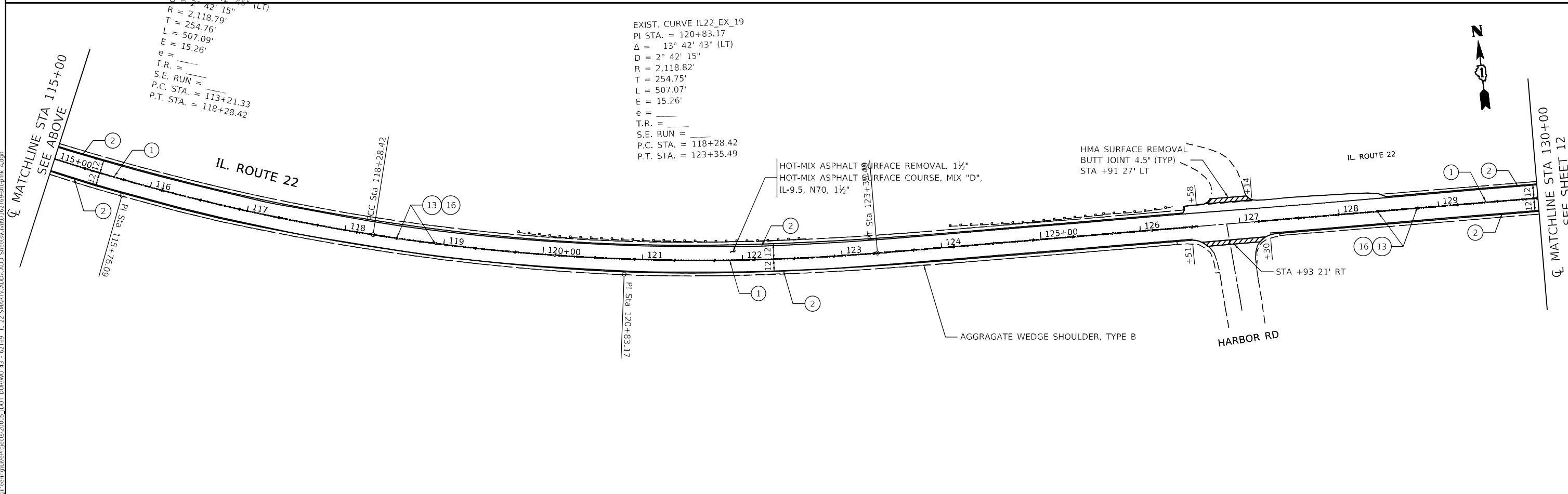
- PAVEMENT MARKING LEGEND**
- 1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID, DOUBLE CENTERLINE)
  - 2 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID)
  - 3 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE 10'-30' SKIP LINE)
  - 4 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID)
  - 5 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE 2'-6" SKIP LINE)
  - 6 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID)
  - 7 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID)

- 8 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID) 75' SPACING, UNLESS NOTED IN THE PLANS
- 9 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID) DIAGONALS @ 45°, 75' SPACING, UNLESS NOTED IN THE PLANS
- 10 THERMOPLASTIC PAVEMENT MARKING - LINE 2" (WHITE STOP LINE)
- 11 THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (WHITE SOLID)
- 12 RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER MARKER) (40' C-C)
- 13 RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER MARKER) (40' C-C)

- 14 RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER MARKER) (80' C-C)
- 15 RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL MARKER) (40' C-C)
- 16 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL
- 17 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW 10'-30' SKIP LINE)
- 18 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID)
- 19 RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL MARKER) (80 C-C)
- 20 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE DIAGONALS AT 45°, 4' SPACING)

EXIST. CURVE IL22\_EX\_18  
 PI STA. = 115+76.09  
 $\Delta = 13^\circ 42' 45"$  (LT)  
 $D = 2^\circ 42' 15"$   
 $R = 2,118.79'$   
 $T = 254.76'$   
 $L = 507.09'$   
 $E = 15.26'$   
 $e =$   
 $T.R. =$   
 $S.E. RUN =$   
 $P.C. STA. = 113+21.33$   
 $P.T. STA. = 118+28.42$

EXIST. CURVE IL22\_EX\_19  
 PI STA. = 120+83.17  
 $\Delta = 13^\circ 42' 43"$  (LT)  
 $D = 2^\circ 42' 15"$   
 $R = 2,118.82'$   
 $T = 254.75'$   
 $L = 507.07'$   
 $E = 15.26'$   
 $e =$   
 $T.R. =$   
 $S.E. RUN =$   
 $P.C. STA. = 118+28.42$   
 $P.T. STA. = 123+35.49$



MODEL: D:\m\l... FILE: W:\m\c... 0337 IL 22 SMART OVERLAY AND ADA RAMP IMPROVEMENTS 4.dgn



USER NAME = jdavis	DESIGNED - MMA	REVISED -
PLOT SCALE = 100,000' / in.	DRAWN - MMA	REVISED -
PLOT DATE = 1/30/2024	CHECKED - DC	REVISED -
	DATE - 08/25/2023	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

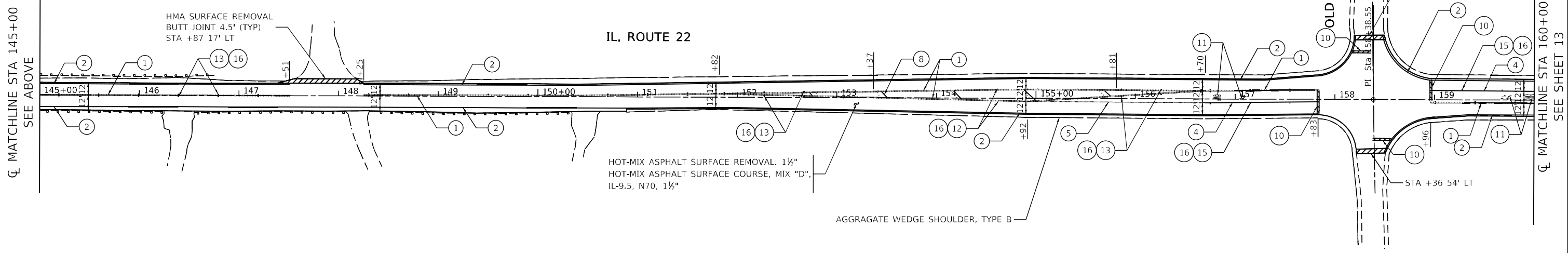
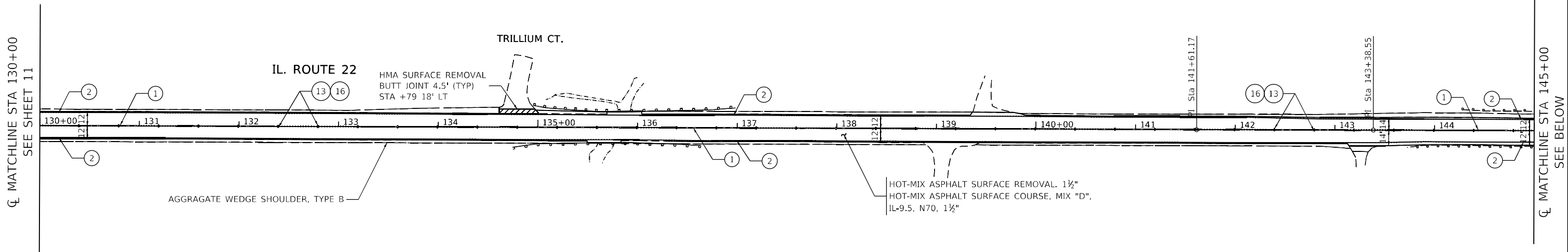
**RESURFACING AND PAVEMENT MARKING PLAN  
IL 22 SMART OVERLAY AND ADA RAMP IMPROVEMENTS**

SCALE: 1"=50'    SHEET 4 OF 9 SHEETS    STA. 100+00 TO STA. 130+00

F.A.P. RTE. 0337	SECTION FAP 0337 22 RS	COUNTY LAKE	TOTAL SHEETS 33	SHEET NO. 11
CONTRACT NO. 62T69				
ILLINOIS FED. AID PROJECT				

**PAVEMENT MARKING LEGEND**

- |  |  |   |
|--|--|---|
| ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID, DOUBLE CENTERLINE) | ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONALS @ 45°, 75' SPACING, UNLESS NOTED IN THE PLANS) | ⑭ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER MARKER) (80' C-C)            |
| ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID)                     | ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONALS @ 45°, 75' SPACING, UNLESS NOTED IN THE PLANS)  | ⑮ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL MARKER) (40' C-C)          |
| ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE 10'-30' SKIP LINE)         | ⑩ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP LINE)  | ⑯ RAISED REFLECTIVE PAVEMENT MARKER REMOVAL                                     |
| ④ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID)                     | ⑪ THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (WHITE SOLID)   | ⑰ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW 10'-30' SKIP LINE)           |
| ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE 2'-6" SKIP LINE)           | ⑫ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER MARKER) (40' C-C)   | ⑱ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID)                       |
| ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID)                     | ⑬ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER MARKER) (40' C-C)   | ⑲ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL MARKER) (80' C-C)          |
| ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID)                    |  | ⑳ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE DIAGONALS AT 45°, 4' SPACING) |



MODEL: D:\d\111... FILE: 0337\_0337\_22\_RS... ILL. 22 SMART OVERLAY AND ADA RAMP IMPROVEMENTS...



USER NAME = jdavis	DESIGNED - MMA	REVISED -
PLOT SCALE = 100,000' / in.	DRAWN - MMA	REVISED -
PLOT DATE = 1/30/2024	CHECKED - DC	REVISED -
	DATE - 08/25/2023	REVISED -

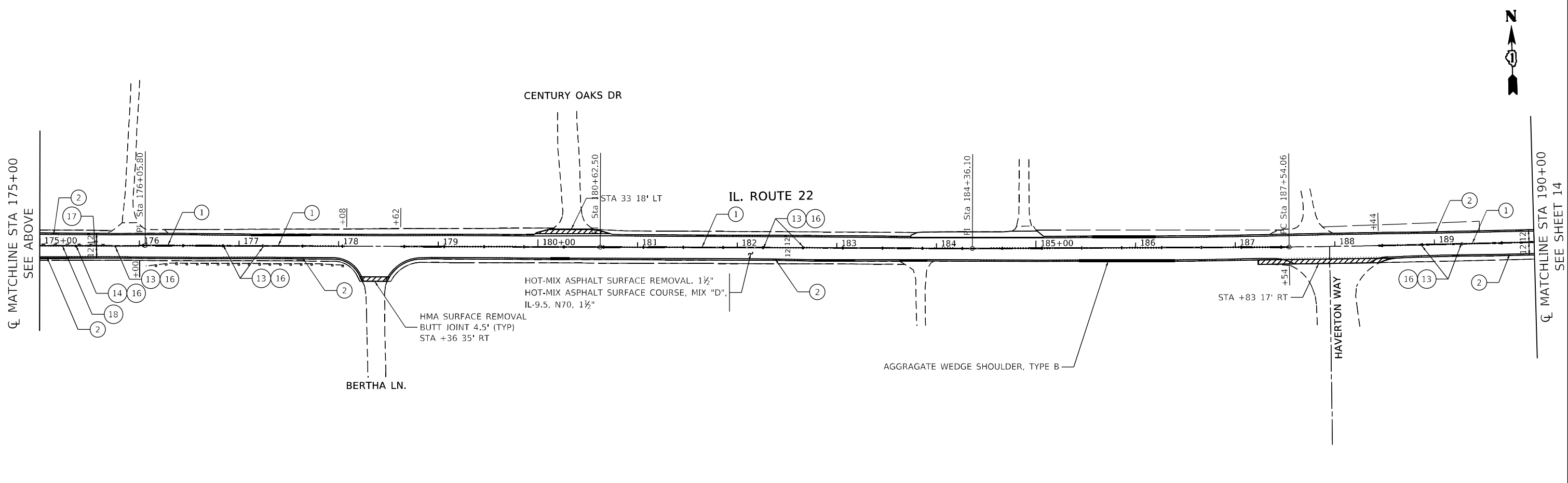
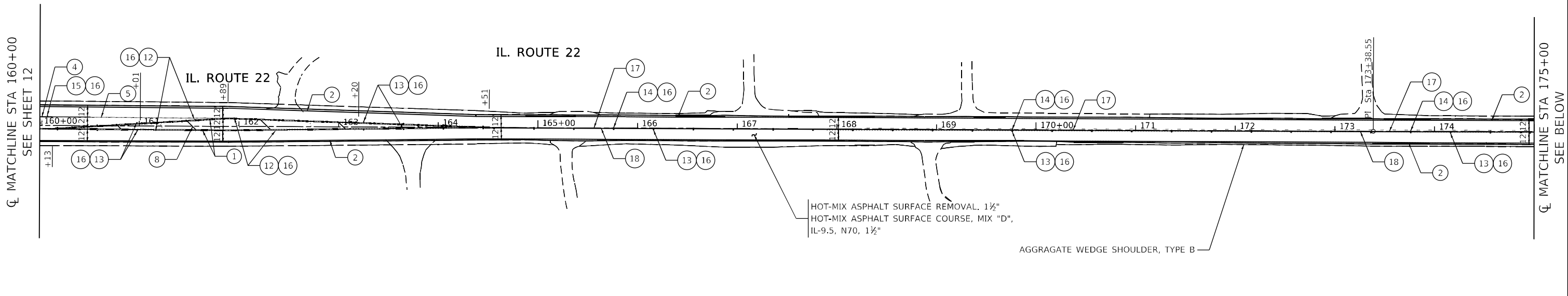
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

RESURFACING AND PAVEMENT MARKING PLAN	
IL 22 SMART OVERLAY AND ADA RAMP IMPROVEMENTS	
SCALE: 1"=50'	SHEET 5 OF 9 SHEETS
STA. 130+00	TO STA. 160+00

F.A.P. RTE. 0337	SECTION FAP 0337 22 RS	COUNTY LAKE	TOTAL SHEETS 33	SHEET NO. 12
CONTRACT NO. 62T69				
ILLINOIS FED. AID PROJECT				

**PAVEMENT MARKING LEGEND**

- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID, DOUBLE CENTERLINE)
- ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID)
- ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE 10'-30' SKIP LINE)
- ④ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID)
- ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE 2'-6' SKIP LINE)
- ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID)
- ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID)
- ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONALS @ 45°, 75' SPACING, UNLESS NOTED IN THE PLANS)
- ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONALS @ 45°, 75' SPACING, UNLESS NOTED IN THE PLANS)
- ⑩ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP LINE)
- ⑪ THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (WHITE SOLID)
- ⑫ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER MARKER) (40' C-C)
- ⑬ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER MARKER) (40' C-C)
- ⑭ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER MARKER) (80' C-C)
- ⑮ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL MARKER) (40' C-C)
- ⑯ RAISED REFLECTIVE PAVEMENT MARKER REMOVAL
- ⑰ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW 10'-30' SKIP LINE)
- ⑱ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID)
- ⑲ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL MARKER) (80 C-C)
- ⑳ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE DIAGONALS AT 45°, 4' SPACING)



MODEL: D:\a\11...  
 FILE: W:\a\11...  
 MODEL: D:\a\11...  
 FILE: W:\a\11...



USER NAME = jdavis	DESIGNED - MMA	REVISED -
PLOT SCALE = 100,000' / in.	DRAWN - MMA	REVISED -
PLOT DATE = 1/30/2024	CHECKED - DC	REVISED -
	DATE - 08/25/2023	REVISED -

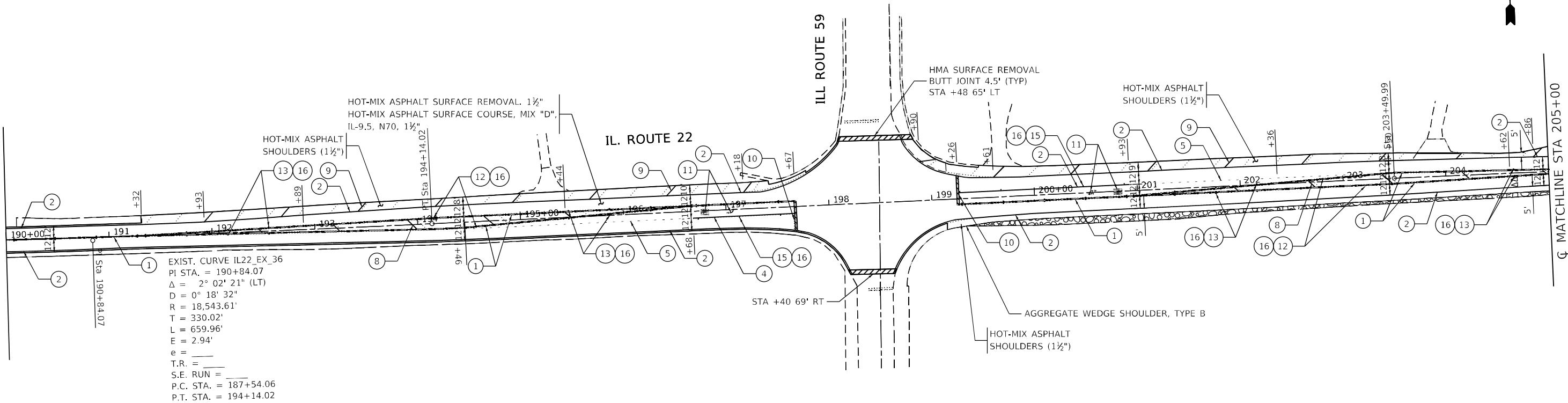
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**RESURFACING AND PAVEMENT MARKING PLAN**  
**IL 22 SMART OVERLAY AND ADA RAMP IMPROVEMENTS**

SCALE: 1"=50'    SHEET 6 OF 9 SHEETS    STA. 160+00 TO STA. 190+00

F.A.P. RTE. 0337	SECTION FAP 0337 22 RS	COUNTY LAKE	TOTAL SHEETS 33	SHEET NO. 13
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T69	

CL MATCHLINE STA 190+00  
SEE SHEET 13



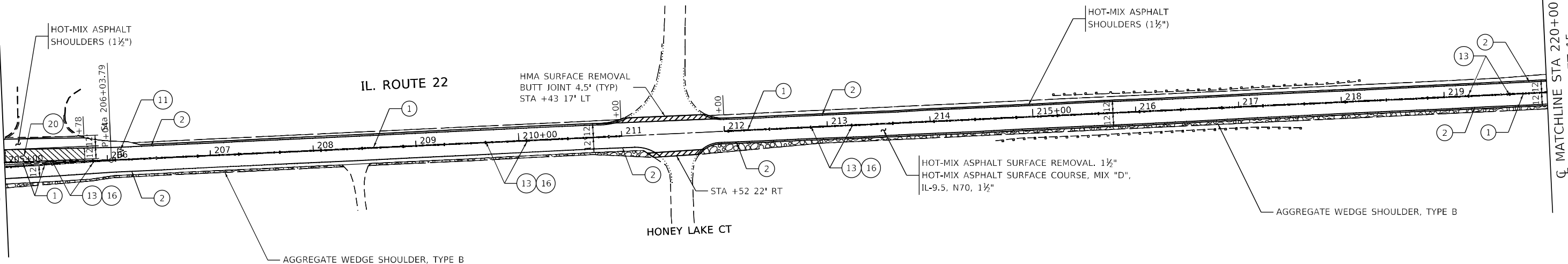
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 PI STA. = 190+84.07  
 $\Delta = 2^\circ 02' 21''$  (LT)  
 $D = 0^\circ 18' 32''$   
 $R = 18,543.61'$   
 $T = 330.02'$   
 $L = 659.96'$   
 $E = 2.94'$   
 $e =$   
 $T.R. =$   
 $S.E. RUN =$   
 $P.C. STA. = 187+54.06$   
 $P.T. STA. = 194+14.02$

**PAVEMENT MARKING LEGEND**

- 1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID, DOUBLE CENTERLINE)
- 2 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID)
- 3 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE 10'-30' SKIP LINE)
- 4 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID)
- 5 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE 2'-6' SKIP LINE)
- 6 THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID)
- 7 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID)
- 8 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONALS @ 45°, 75' SPACING, UNLESS NOTED IN THE PLANS)
- 9 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONALS @ 45°, 75' SPACING, UNLESS NOTED IN THE PLANS)
- 10 THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP LINE)
- 11 THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (WHITE SOLID)
- 12 RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER MARKER) (40' C-C)
- 13 RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER MARKER) (40' C-C)
- 14 RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER MARKER) (80' C-C)
- 15 RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL MARKER) (40' C-C)
- 16 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL
- 17 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW 10'-30' SKIP LINE)
- 18 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID)
- 19 RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL MARKER) (80 C-C)
- 20 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE DIAGONALS AT 45°, 4' SPACING)

**HONEY LAKE RD**

CL MATCHLINE STA 205+00  
SEE ABOVE



MODEL: D:\m\ill\...  
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 MODEL: D:\m\ill\...  
 FILE: W:\m\ill\...



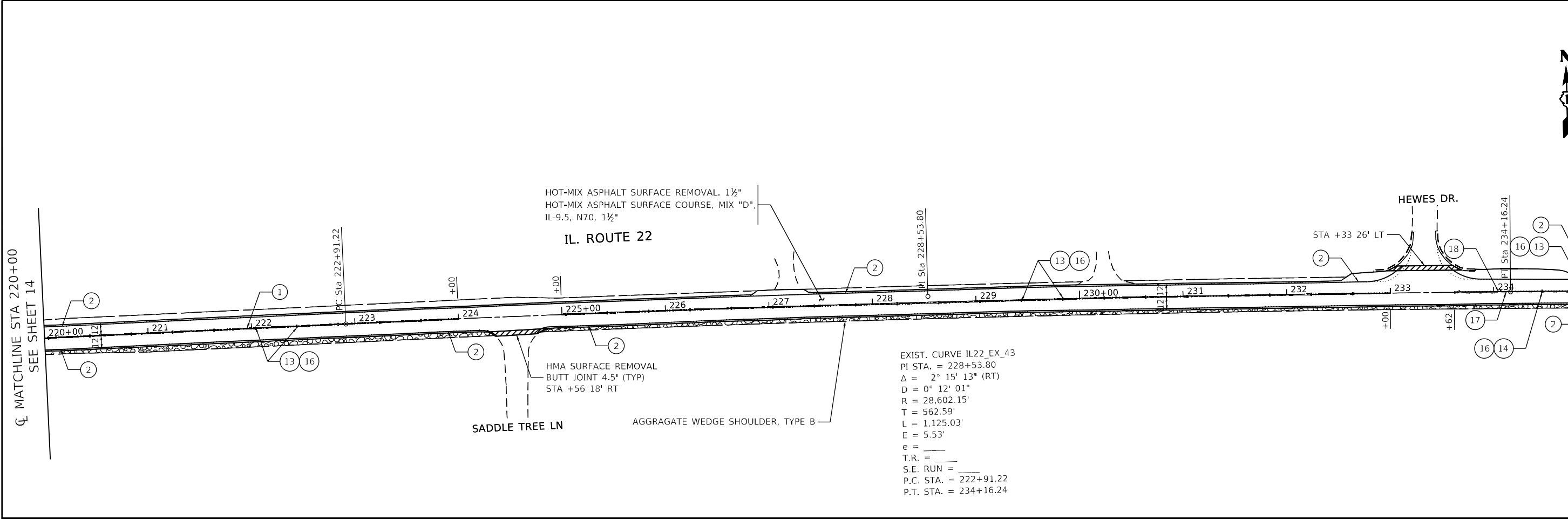
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	DRAWN - MMA	REVISED -
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PLOT DATE = 1/30/2024	DATE - 08/25/2023	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**RESURFACING AND PAVEMENT MARKING PLAN  
IL 22 SMART OVERLAY AND ADA RAMP IMPROVEMENTS**

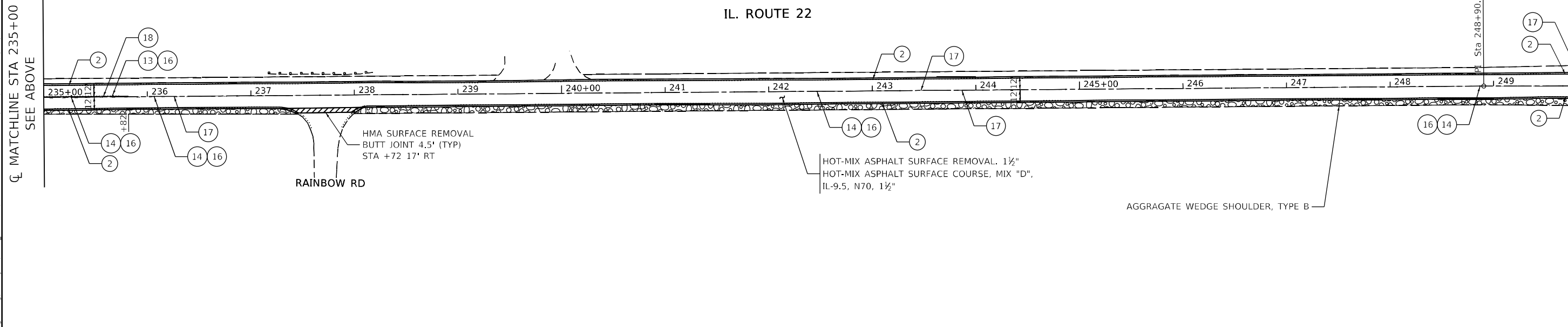
F.A.P. RTE. 0337	SECTION FAP 0337 22 RS	COUNTY LAKE	TOTAL SHEETS 33	SHEET NO. 14
CONTRACT NO. 62T69			ILLINOIS FED. AID PROJECT	

SCALE: 1"=50' SHEET 7 OF 9 SHEETS STA. 190+00 TO STA. 220+00



### PAVEMENT MARKING LEGEND

- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID, DOUBLE CENTERLINE)
- ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID)
- ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE 10'-30' SKIP LINE)
- ④ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID)
- ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE 2'-6' SKIP LINE)
- ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID)
- ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID)
- ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONALS @ 45°, 75' SPACING, UNLESS NOTED IN THE PLANS)
- ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONALS @ 45°, 75' SPACING, UNLESS NOTED IN THE PLANS)
- ⑩ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP LINE)
- ⑪ THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (WHITE SOLID)
- ⑫ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER MARKER) (40' C-C)
- ⑬ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER MARKER) (40' C-C)
- ⑭ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER MARKER) (80' C-C)
- ⑮ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL MARKER) (40' C-C)
- ⑯ RAISED REFLECTIVE PAVEMENT MARKER REMOVAL
- ⑰ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW 10'-30' SKIP LINE)
- ⑱ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID)
- ⑲ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL MARKER) (80 C-C)
- ⑳ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE DIAGONALS AT 45°, 4' SPACING)



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PROJECT: IL 22 SMART OVERLAY AND ADA RAMP IMPROVEMENTS  
DRAWN: MMA  
CHECKED: DC  
DATE: 08/25/2023  
PLOT DATE: 1/30/2024



USER NAME = jdavis	DESIGNED - MMA	REVISED -
PLOT SCALE = 100,000' / in.	DRAWN - MMA	REVISED -
PLOT DATE = 1/30/2024	CHECKED - DC	REVISED -
	DATE - 08/25/2023	REVISED -

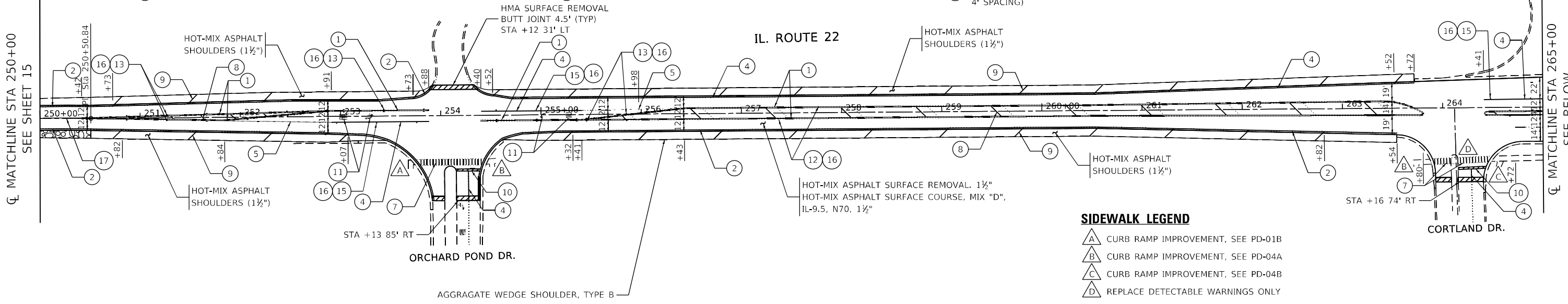
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>RESURFACING AND PAVEMENT MARKING PLAN</b>			
<b>IL 22 SMART OVERLAY AND ADA RAMP IMPROVEMENTS</b>			
SCALE: 1"=50'	SHEET 8 OF 9 SHEETS	STA. 220+00	TO STA. 250+00

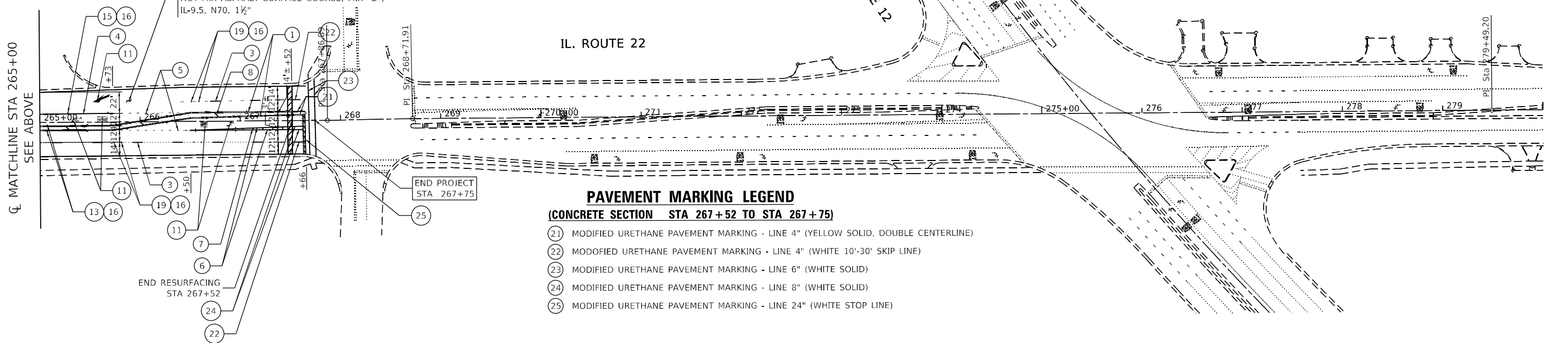
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0337	FAP 0337 22 RS	LAKE	33	15
CONTRACT NO. 62T69				
ILLINOIS FED. AID PROJECT				

**PAVEMENT MARKING LEGEND**

- |  |  |   |
|--|--|---|
| ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID, DOUBLE CENTERLINE) | ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONALS @ 45°, 75' SPACING, UNLESS NOTED IN THE PLANS) | ⑭ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER MARKER) (80' C-C)            |
| ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID)                     | ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONALS @ 45°, 75' SPACING, UNLESS NOTED IN THE PLANS)  | ⑮ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL MARKER) (40' C-C)          |
| ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE 10'-30' SKIP LINE)         | ⑩ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP LINE)  | ⑯ RAISED REFLECTIVE PAVEMENT MARKER REMOVAL                                     |
| ④ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID)                     | ⑪ THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (WHITE SOLID)   | ⑰ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW 10'-30' SKIP LINE)           |
| ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE 2'-6" SKIP LINE)           | ⑫ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER MARKER) (40' C-C)   | ⑱ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID)                       |
| ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID)                     | ⑬ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER MARKER) (40' C-C)   | ⑲ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL MARKER) (80' C-C)          |
| ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID)                    |  | ⑳ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE DIAGONALS AT 45°, 4' SPACING) |



- SIDEWALK LEGEND**
- △ A CURB RAMP IMPROVEMENT, SEE PD-01B
  - △ B CURB RAMP IMPROVEMENT, SEE PD-04A
  - △ C CURB RAMP IMPROVEMENT, SEE PD-04B
  - △ D REPLACE DETECTABLE WARNINGS ONLY



- PAVEMENT MARKING LEGEND**  
**(CONCRETE SECTION STA 267+52 TO STA 267+75)**
- ⑳ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (YELLOW SOLID, DOUBLE CENTERLINE)
  - ㉑ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (WHITE 10'-30' SKIP LINE)
  - ㉒ MODIFIED URETHANE PAVEMENT MARKING - LINE 6" (WHITE SOLID)
  - ㉓ MODIFIED URETHANE PAVEMENT MARKING - LINE 8" (WHITE SOLID)
  - ㉔ MODIFIED URETHANE PAVEMENT MARKING - LINE 24" (WHITE STOP LINE)



USER NAME = j.davis	DESIGNED - MMA	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - MMA	REVISED -
PLOT DATE = 1/30/2024	CHECKED - DC	REVISED -
	DATE - 08/25/2023	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**RESURFACING AND PAVEMENT MARKING PLAN  
IL 22 SMART OVERLAY AND ADA RAMP IMPROVEMENTS**

F.A.P. RTE. 0337	SECTION FAP 0337 22 RS	COUNTY LAKE	TOTAL SHEETS 33	SHEET NO. 16
CONTRACT NO. 62T69				
ILLINOIS FED. AID PROJECT				

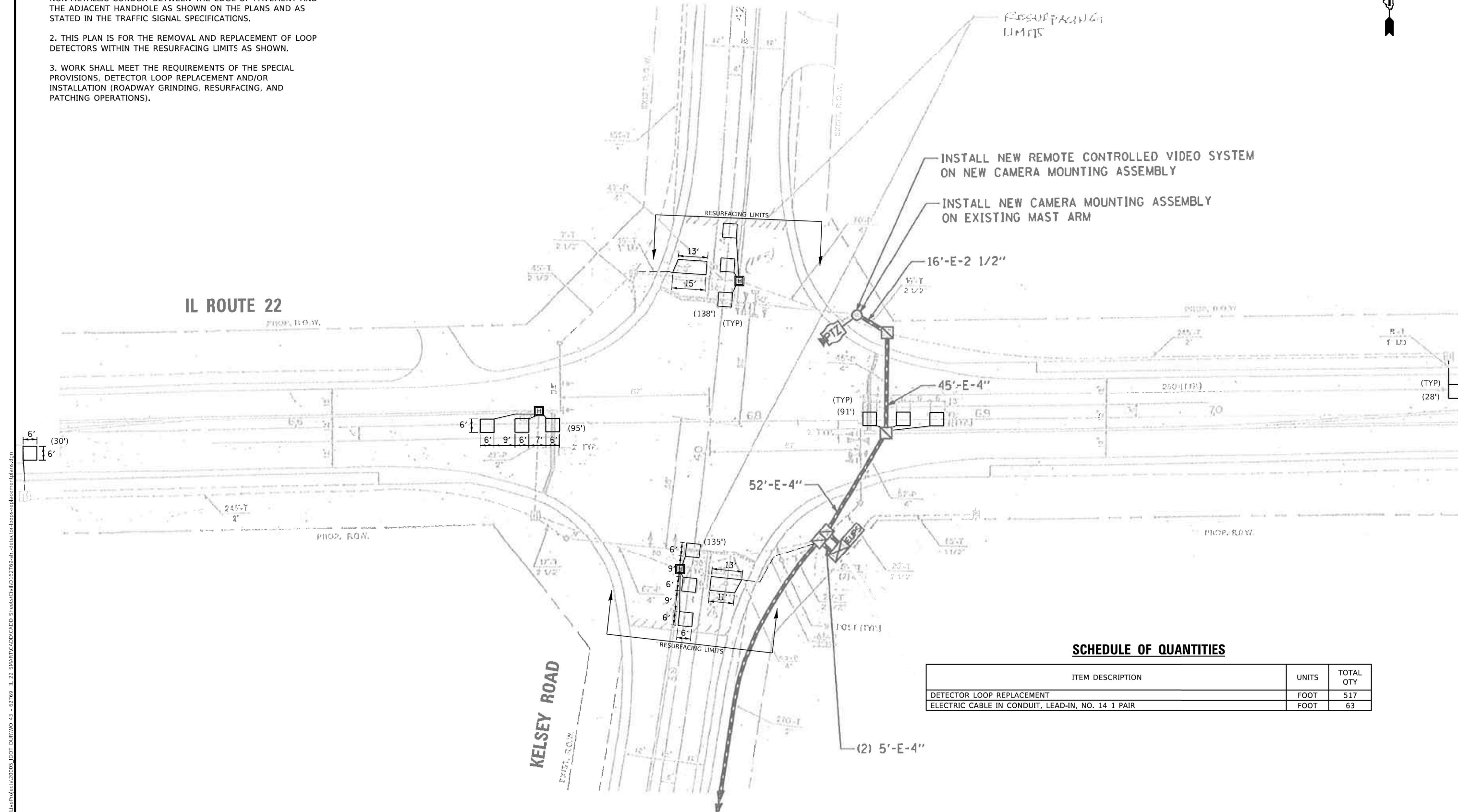
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MODEL: D:\dtd\illinois\mmp\resurfacing\il22\0337\033722\033722\_033722\_033722.dwg



**NOTES:**

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
2. THIS PLAN IS FOR THE REMOVAL AND REPLACEMENT OF LOOP DETECTORS WITHIN THE RESURFACING LIMITS AS SHOWN.
3. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISIONS, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING, AND PATCHING OPERATIONS).



**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY
DETECTOR LOOP REPLACEMENT	FOOT	517
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	63

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USER NAME = Jason.Rodriguez	DESIGNED - JR	REVISED -
DRAWN - JR	REVISIONS -	
PLOT SCALE = 40,0000' / 1"	CHECKED -	REVISED -
PLOT DATE = 7/5/2023	DATE - 6/26/23	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

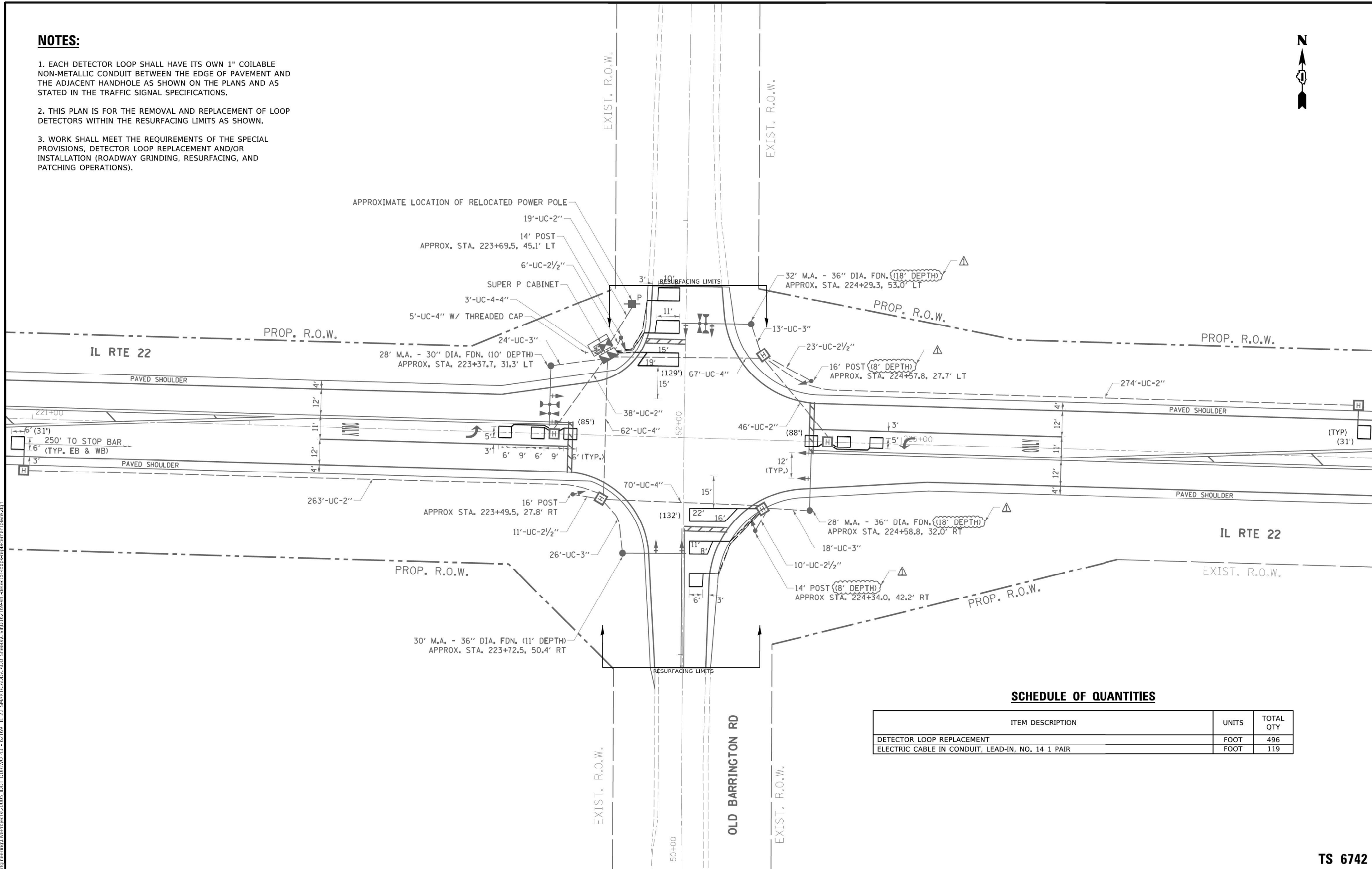
<b>TRAFFIC SIGNAL MODIFICATION PLAN                  AND SCHEDULE OF QUANTITIES                  IL RTE 22 AND KELSEY RD</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0337	FAP 0337 22 RS	LAKE	33	17
CONTRACT NO. 62T69			ILLINOIS FED. AID PROJECT	

**TS 6531**

**NOTES:**

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
2. THIS PLAN IS FOR THE REMOVAL AND REPLACEMENT OF LOOP DETECTORS WITHIN THE RESURFACING LIMITS AS SHOWN.
3. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISIONS, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING, AND PATCHING OPERATIONS).



**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY
DETECTOR LOOP REPLACEMENT	FOOT	496
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	119

**TS 6742**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODIFICATION PLAN  
AND SCHEDULE OF QUANTITIES  
IL RTE 22 AND OLD BARRINGTON RD**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0337	FAP 0337 22 RS	LAKE	33	18
				CONTRACT NO. 62T69
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.

USER NAME = Jason Rodriguez	DESIGNED - JR	REVISED -
	DRAWN - JR	REVISED -
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PLOT DATE = 7/5/2023	DATE - 6/26/23	REVISED -

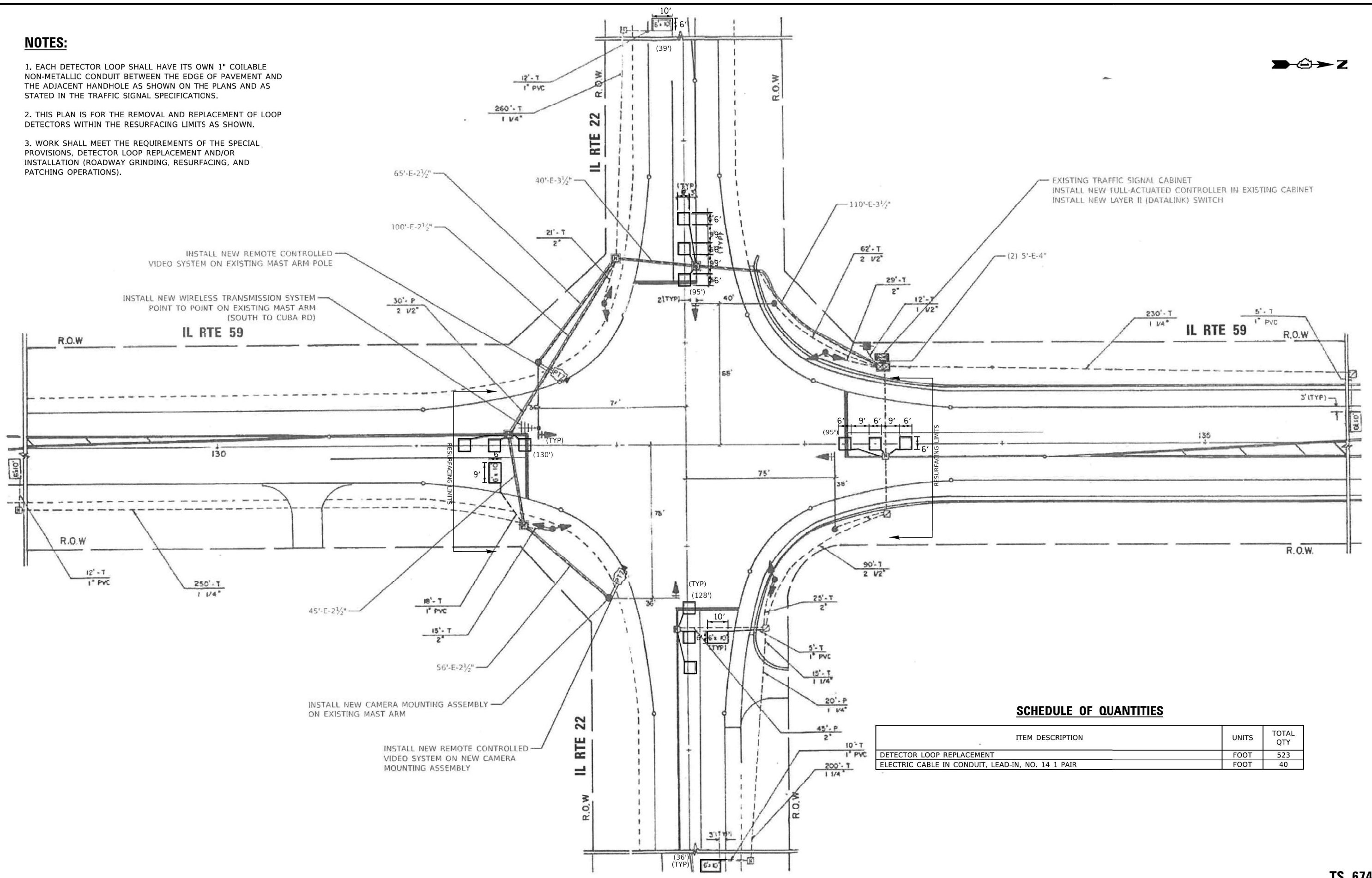
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**NOTES:**

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.

2. THIS PLAN IS FOR THE REMOVAL AND REPLACEMENT OF LOOP DETECTORS WITHIN THE RESURFACING LIMITS AS SHOWN.

3. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISIONS, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING, AND PATCHING OPERATIONS).



**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY
DETECTOR LOOP REPLACEMENT	FOOT	523
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	40

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USER NAME = Jason.Rodriguez	DESIGNED - JR	REVISED -
	DRAWN - JR	REVISED -
PLOT SCALE = 40.0000 / 1" =	CHECKED -	REVISED -
PLOT DATE = 7/5/2023	DATE - 6/26/23	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODIFICATION PLAN  
AND SCHEDULE OF QUANTITIES  
IL RTE 22 AND IL RTE 59**

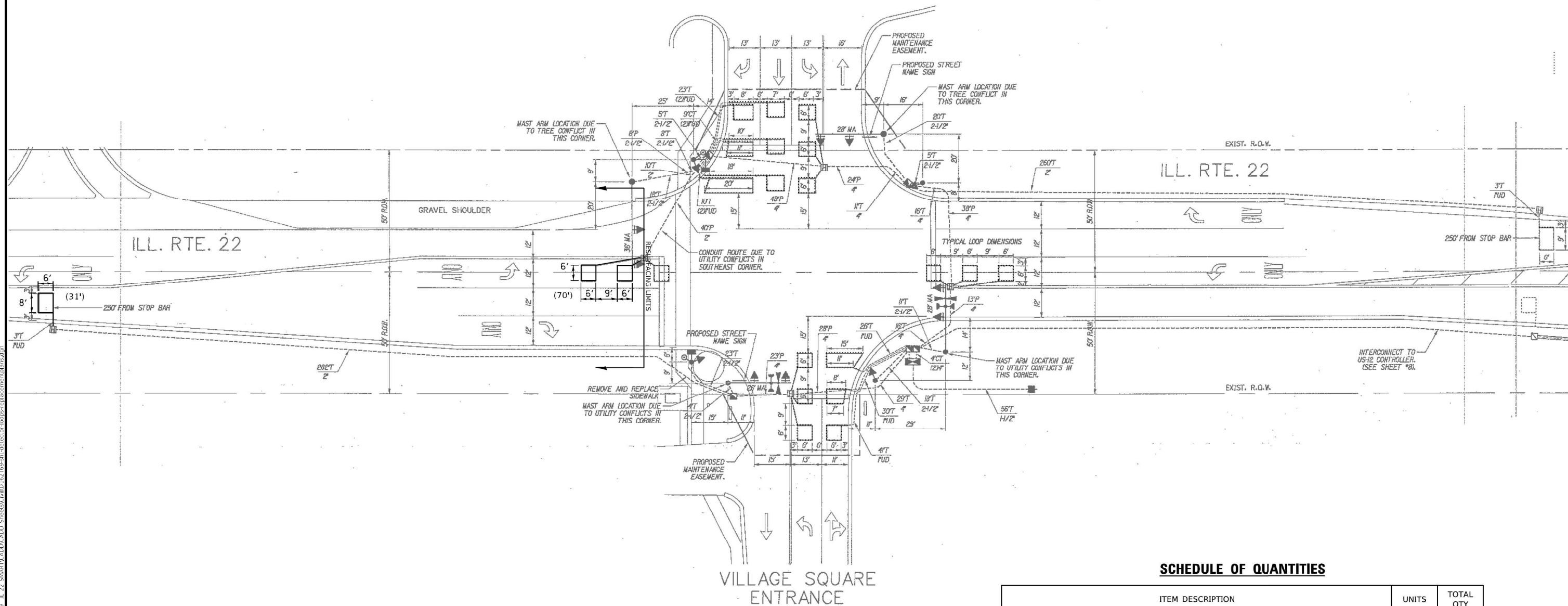
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0337	FAP 0337 22 RS	LAKE	33	19
			CONTRACT NO. 62T69	
ILLINOIS FED. AID PROJECT				

**TS 6740**

**NOTES:**

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
2. THIS PLAN IS FOR THE REMOVAL AND REPLACEMENT OF LOOP DETECTORS WITHIN THE RESURFACING LIMITS AS SHOWN.
3. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISIONS, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING, AND PATCHING OPERATIONS).



**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY
DETECTOR LOOP REPLACEMENT	FOOT	101
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	3

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USER NAME = Jason.Rodriguez	DESIGNED - JR	REVISED -
	DRAWN - JR	REVISED -
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PLOT DATE = 7/5/2023	DATE - 6/26/23	REVISED -

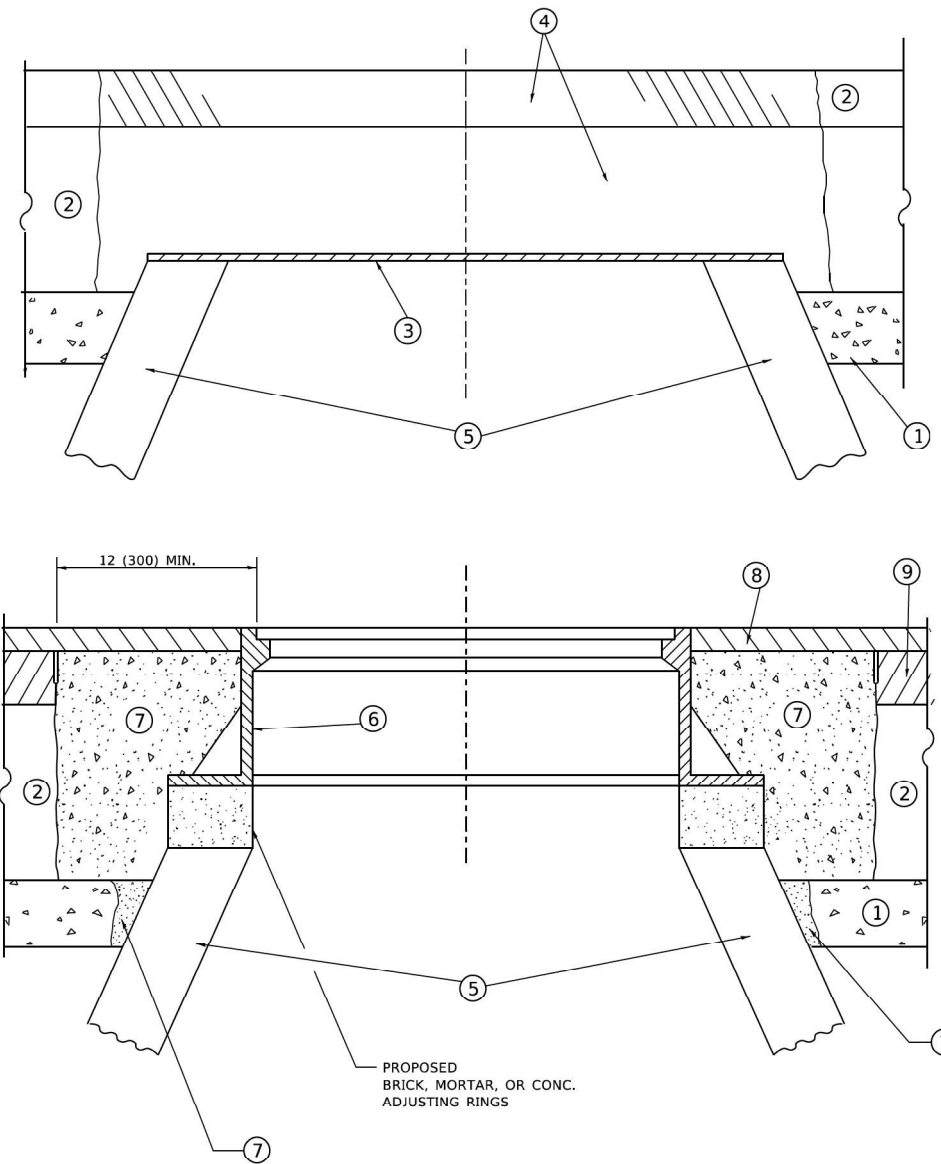
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODIFICATION PLAN  
AND SCHEDULE OF QUANTITIES  
IL RTE 22 AND VILLAGE SQUARE ENTRANCE**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0337	FAP 0337 22 RS	LAKE	33	20
CONTRACT NO. 62T69			ILLINOIS FED. AID PROJECT	

**TS 941  
ECON 148**



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

**NOTES**

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

**CONSTRUCTION PROCEDURES**

**STAGE 1 (BEFORE PAVEMENT MILLING)**

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND HMA SURFACE MIX APPROVED BY THE ENGINEER. (MIN. 1 1/2 (40) HMA TO REMAIN AFTER MILLING).

**STAGE 2 (AFTER PAVEMENT MILLING)**

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS\*PP-1 CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

\* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

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

**LEGEND**

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

**LOCATION OF STRUCTURES**

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

**BASIS OF PAYMENT**

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

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

MODEL: BD-08  
FILE: \\mhp\cgs\enr\proj\11\proj\6\616330005\_IDOT\_DUR\W043 - 62T69\_IL22-SMARTCARD\ADD\_Sheets\Civil\BD12T69-adj-frames-lids-1.dwg

USER NAME = demanchelt	DESIGNED - R. SHAH	REVISED - R. BORO 01-01-07
	DRAWN -	REVISED - R. BORO 03-09-11
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED - R. BORO 12-06-11
PLOT DATE = 2/2/2022	DATE - 10-25-94	REVISED - K. SMITH 02-01-22

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

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

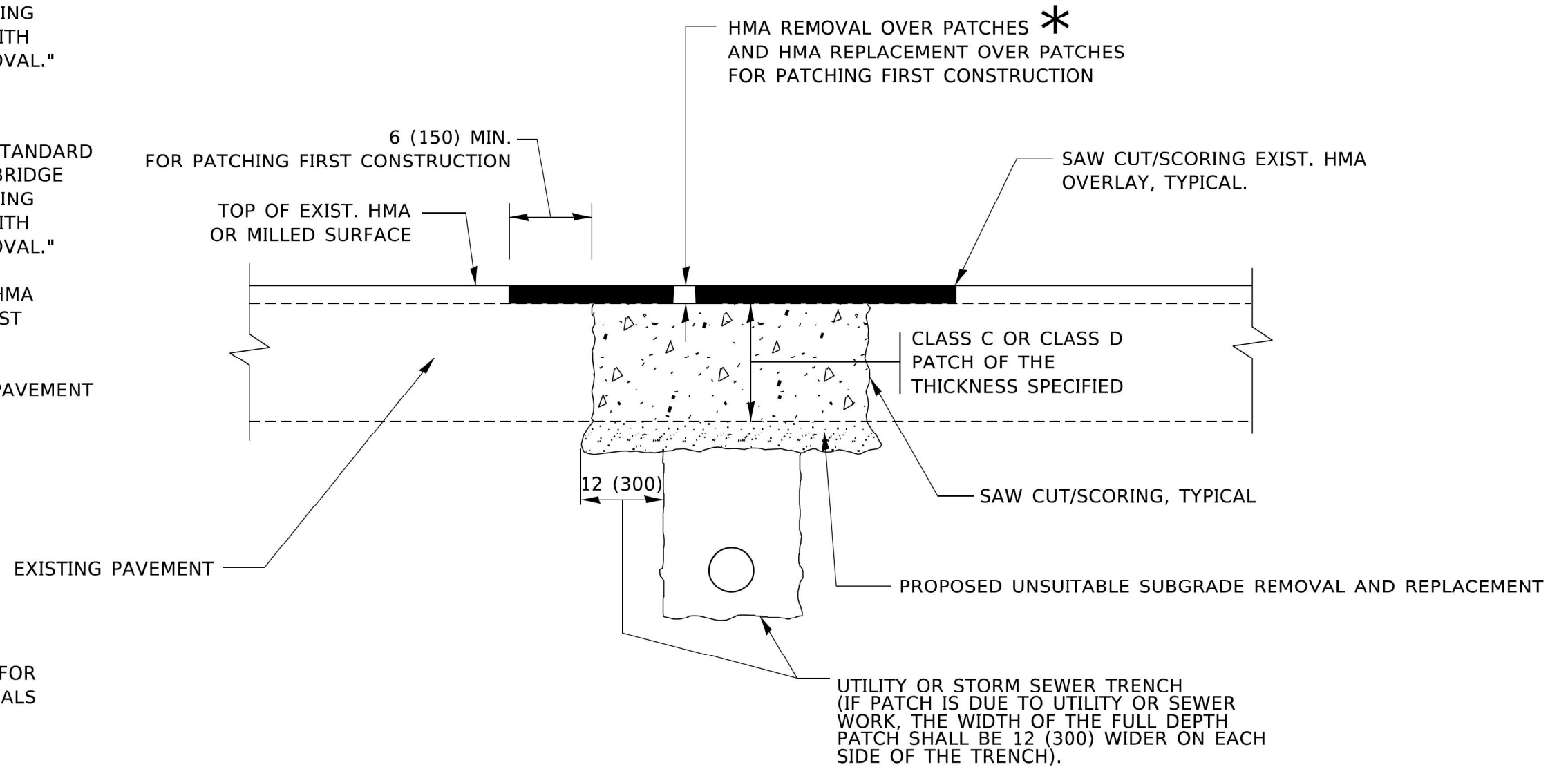
F.A.P. RTE. 0337	SECTION FAP 0337 22 RS	COUNTY LAKE	TOTAL SHEETS 33	SHEET NO. 21
BD600-03 (BD-08)			CONTRACT NO. 62T69	
ILLINOIS FED. AID PROJECT				

**METHOD OF MEASUREMENT**

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

**BASIS OF PAYMENT**

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



**SEQUENCE OF CONSTRUCTION (PATCHING FIRST)**

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

**SEQUENCE OF CONSTRUCTION (MILLING FIRST)**

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

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

MODEL BD-22  
FILE NUMBER 62T69  
ILL. STATE DOT PROJECT 0337 22 RS  
SECTION 0337 22 RS  
COUNTY LAKE  
CONTRACT NO. 62T69

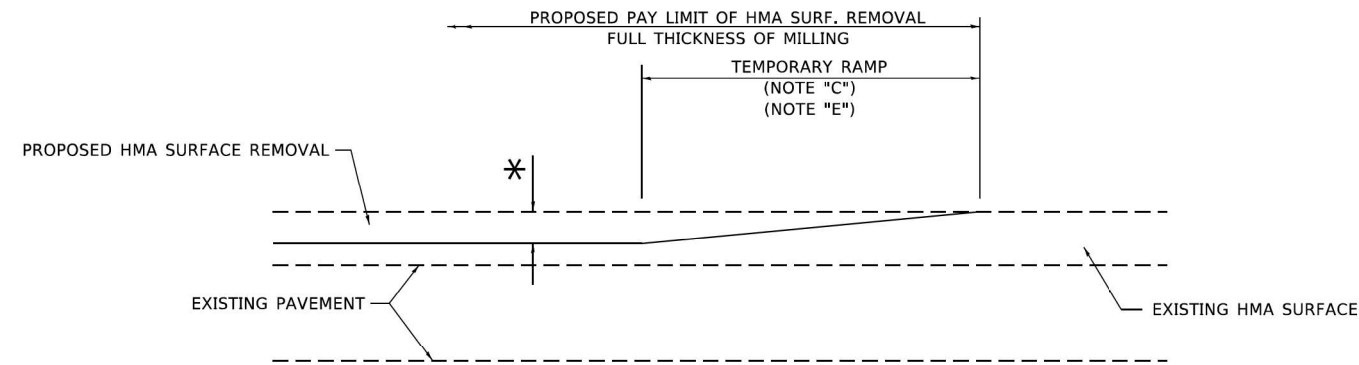
USER NAME = demanchelt	DESIGNED - R. SHAH	REVISED - R. BORO 01-01-07
	DRAWN -	REVISED - R. BORO 09-04-07
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - K. ENG 10-27-08
PLOT DATE = 2/2/2022	DATE - 10-25-94	REVISED - K. SMITH 02-01-22

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT PATCHING FOR  
HMA SURFACED PAVEMENT**

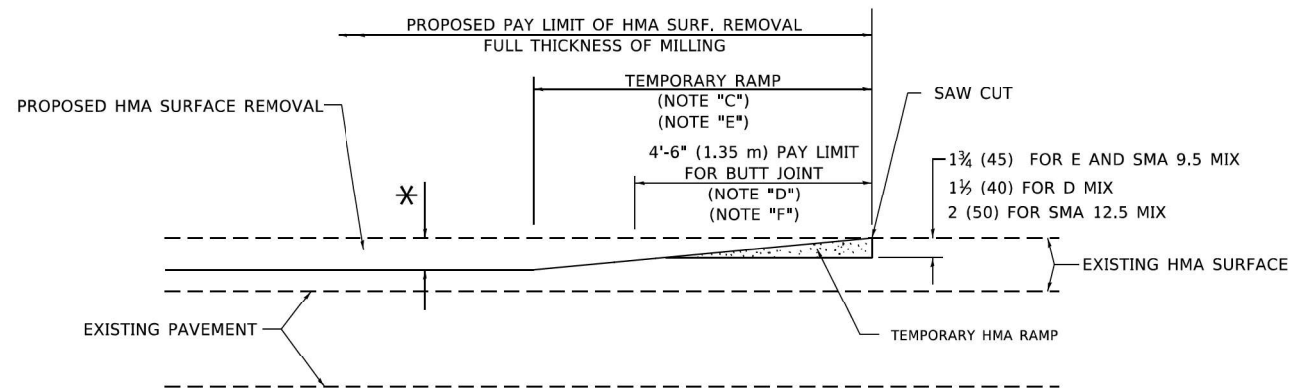
SCALE: NONE    SHEET 1 OF 1 SHEETS    STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0337	FAP 0337 22 RS	LAKE	33	22
BD400-04 (BD-22)		CONTRACT NO. 62T69		
ILLINOIS FED. AID PROJECT				



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

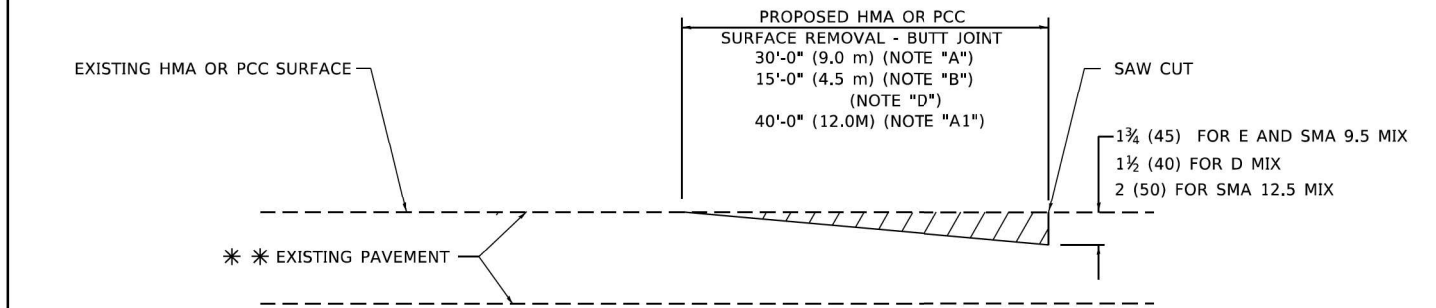
**OPTION 1**



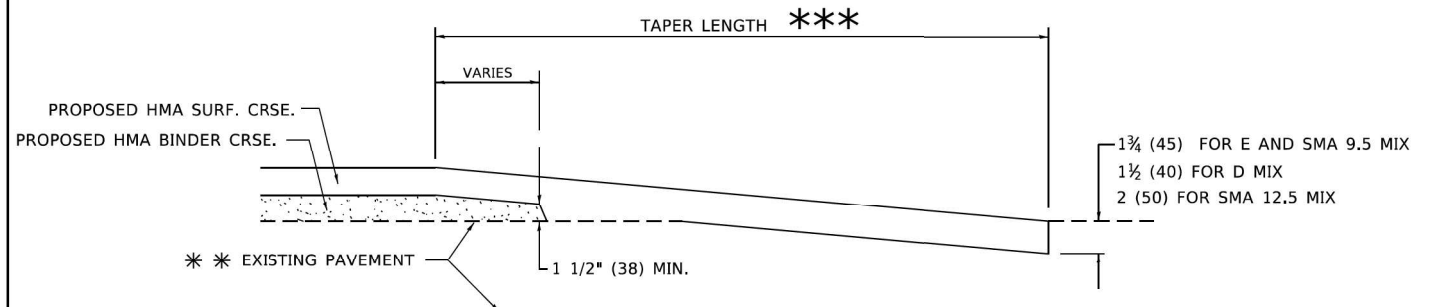
**HMA CONSTRUCTED TEMPORARY RAMP**  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**OPTION 2**

**TYPICAL TEMPORARY RAMP**



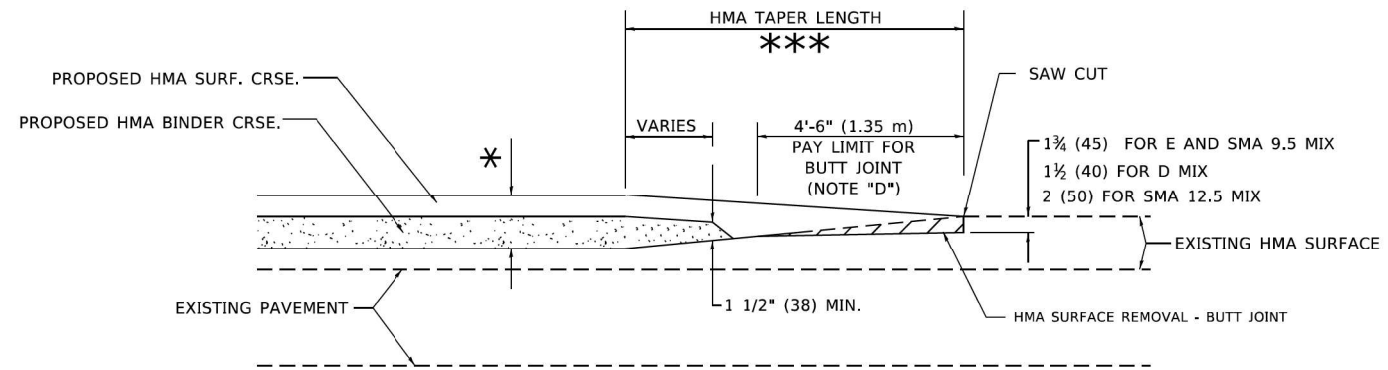
**BUTT JOINT DETAIL**



**HMA TAPER DETAIL**

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

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



**BUTT JOINT AND HMA TAPER**

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

**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.

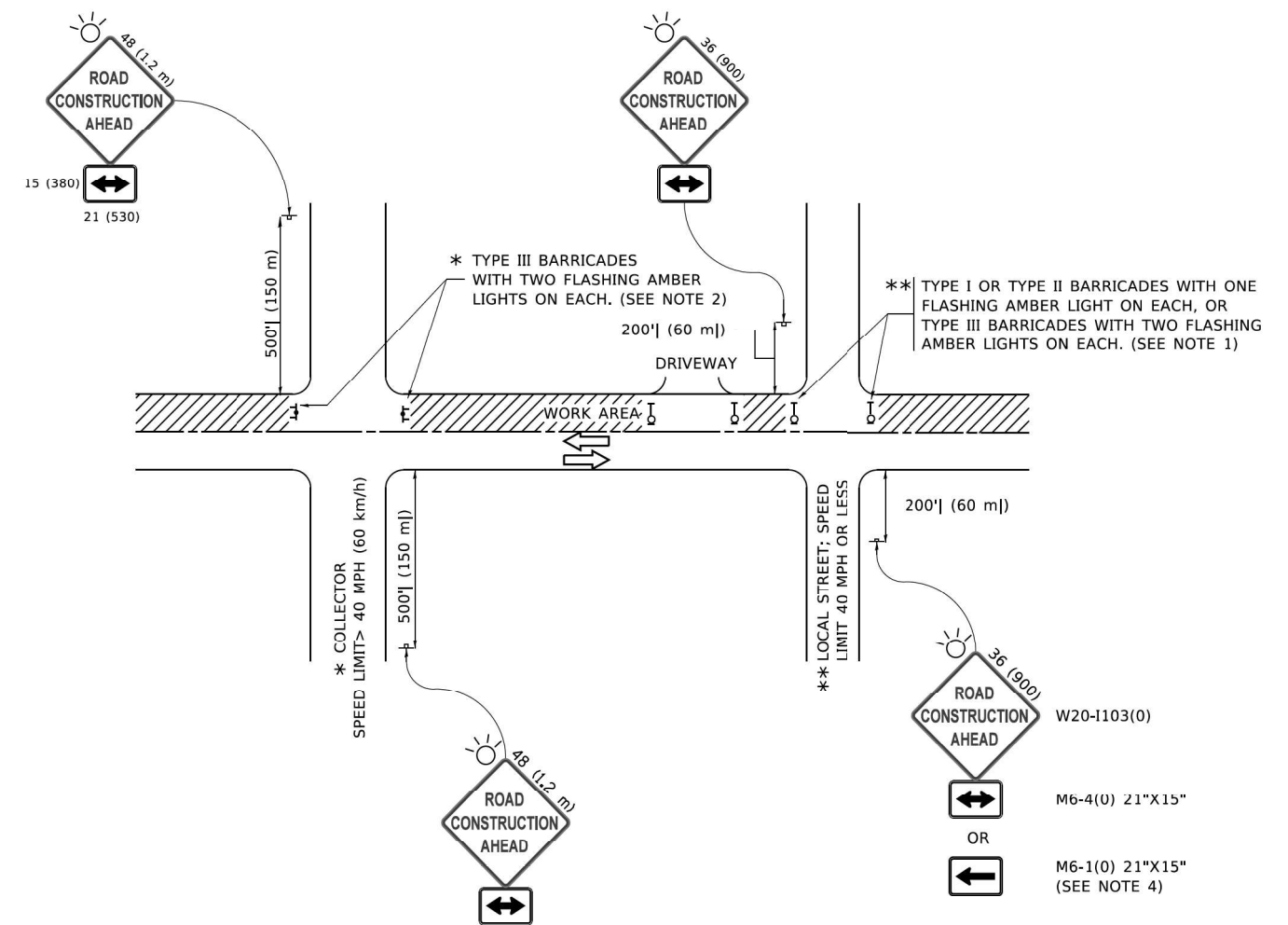
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USER NAME = demanchelt	DESIGNED - M. DE YONG	REVISED - A. ABBAS 03-21-97
	DRAWN -	REVISED - M. GOMEZ 04-06-01
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - R. BORO 01-01-07
PLOT DATE = 2/2/2022	DATE - 06-13-90	REVISED - K. SMITH 02-01-22

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>BUTT JOINT AND HMA TAPER DETAILS</b>			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0337	FAP 0337 22 RS	LAKE	33	23
<b>BD400-05 BD-32</b>			CONTRACT NO. 62T69	
ILLINOIS FED. AID PROJECT				



**NOTES:**

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
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.

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USER NAME = footemj	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
	DRAWN -	REVISED - T. RAMMACHER 01-06-00
PLOT SCALE = 50,0000' / 1"	CHECKED -	REVISED - A. SCHUETZE 07-01-13
PLOT DATE = 3/4/2019	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

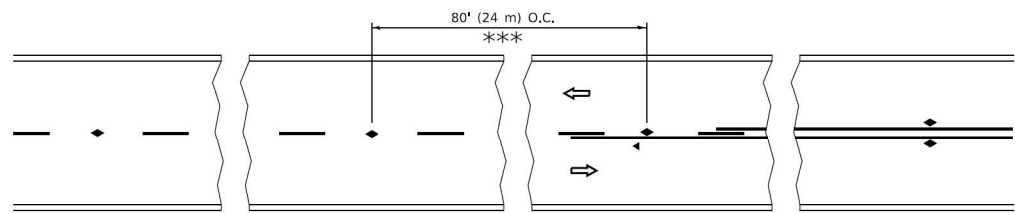
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION FOR  
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

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

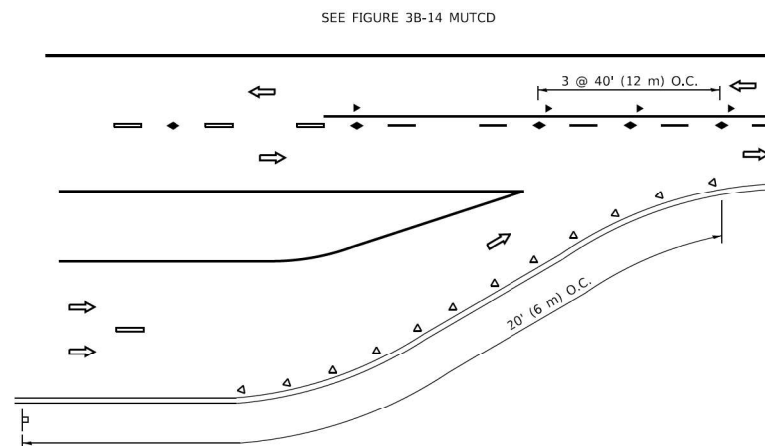
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<b>TC-10</b>			CONTRACT NO. 62T69	
ILLINOIS   FED. AID PROJECT				



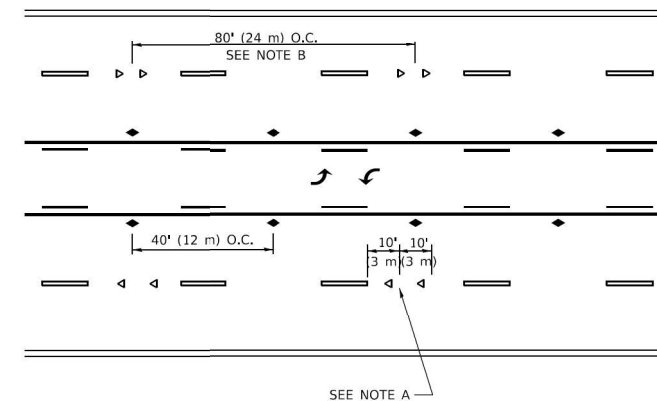


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

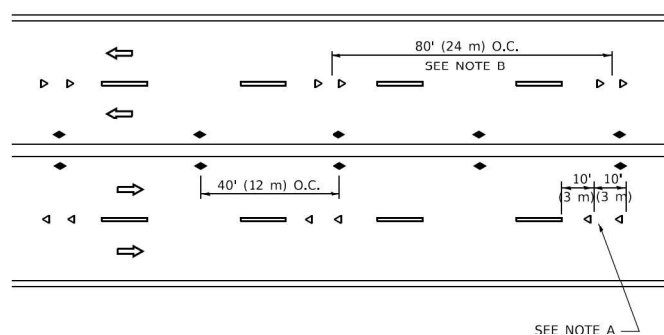
**TWO-LANE/TWO-WAY**



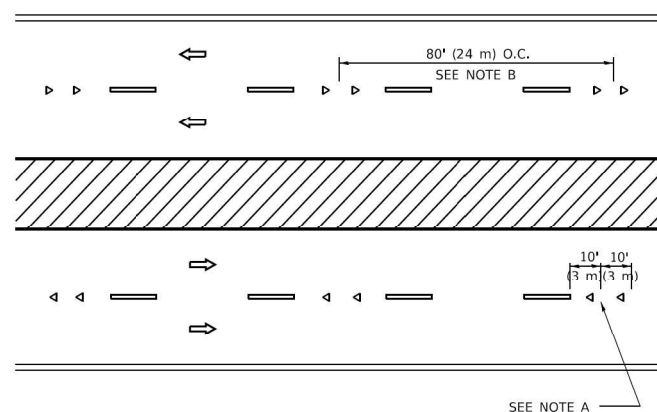
**LANE REDUCTION TRANSITION**



**TWO-WAY LEFT TURN**



**MULTI-LANE/UNDIVIDED**



**MULTI-LANE/DIVIDED**

**GENERAL NOTES**

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

**SYMBOLS**

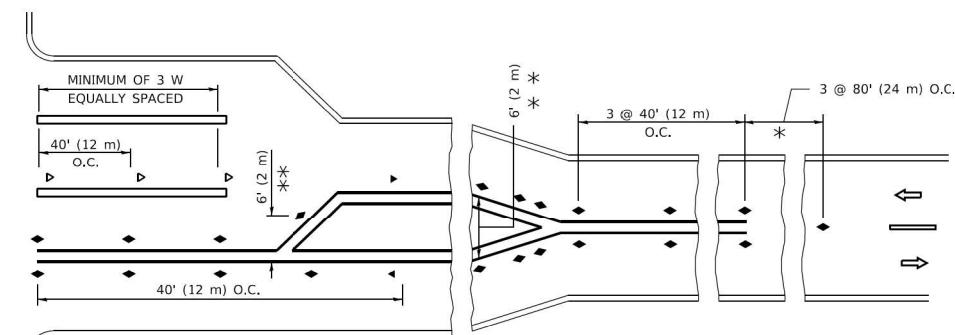
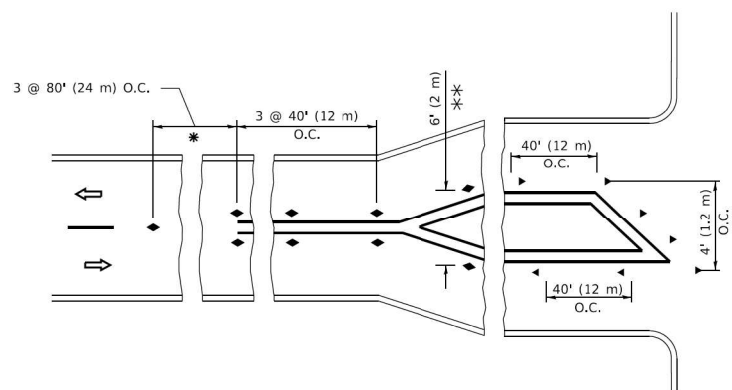
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

**LANE MARKER NOTES**

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

**DESIGN NOTES**

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



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

**TURN LANES**

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

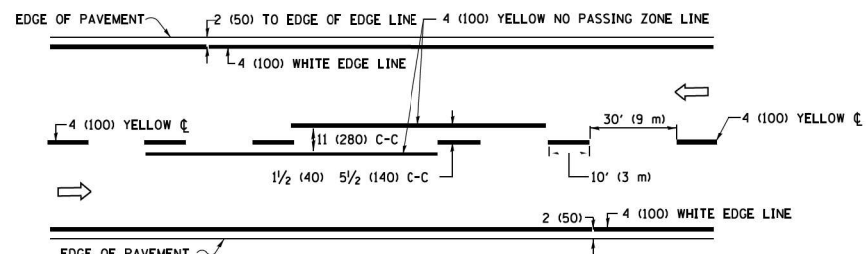
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USER NAME = footemj	DESIGNED -	REVISED - T. RAMMACHER 03-12-99
	DRAWN -	REVISED - T. RAMMACHER 01-06-00
PLOT SCALE = 50,0000' / 1"	CHECKED -	REVISED - C. JUCIUS 09-09-09
PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 07-01-13

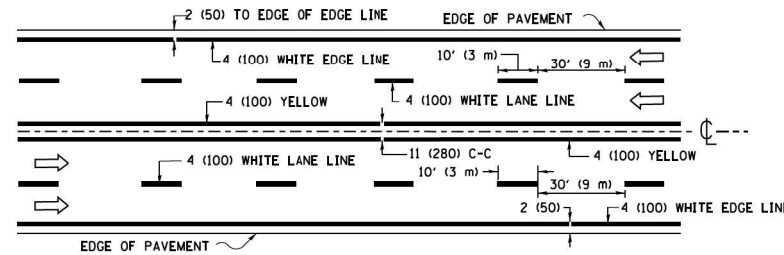
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

TYPICAL APPLICATIONS			
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

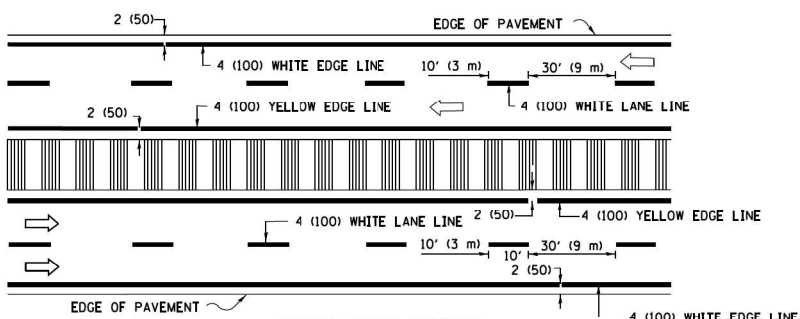
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0337	FAP 0337 22 RS	LAKE	33	25
TC-11			CONTRACT NO. 62T69	
ILLINOIS FED. AID PROJECT				



**2-LANE ROADWAY**

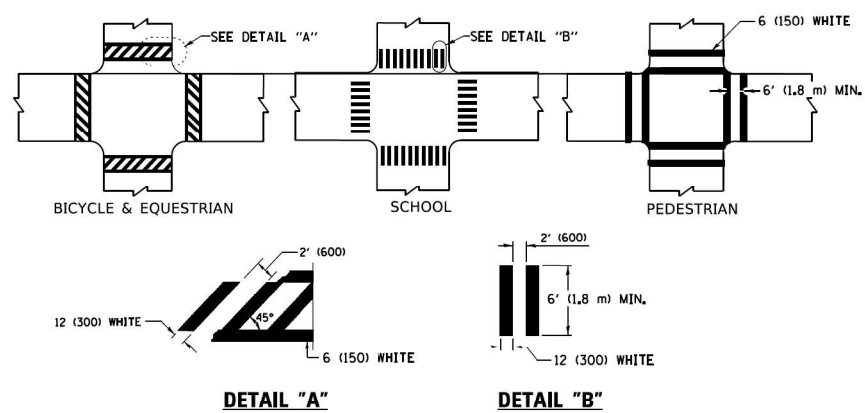


**MULTI-LANE UNDIVIDED**



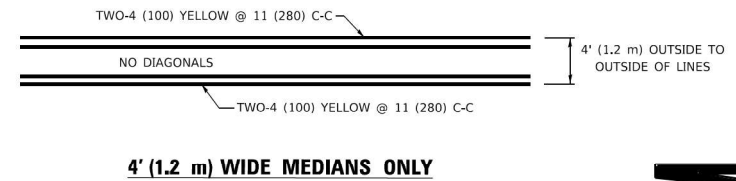
**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

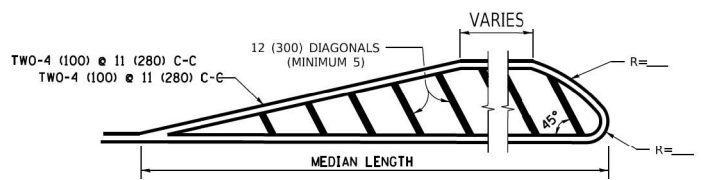


**TYPICAL CROSSWALK MARKING**

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

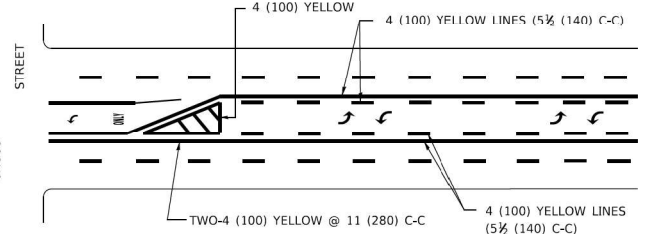


**4' (1.2 m) WIDE MEDIANS ONLY**



**MEDIANS OVER 4' (1.2 m) WIDE**

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

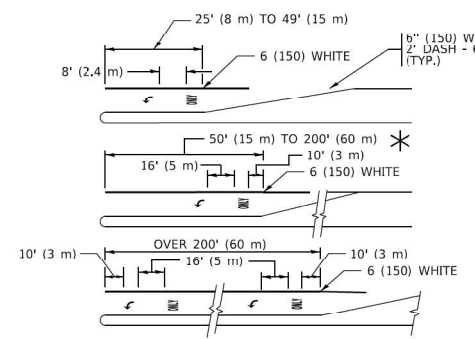


**TYPICAL PAINTED MEDIAN MARKING**

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

**MEDIAN WITH TWO-WAY LEFT TURN LANE**

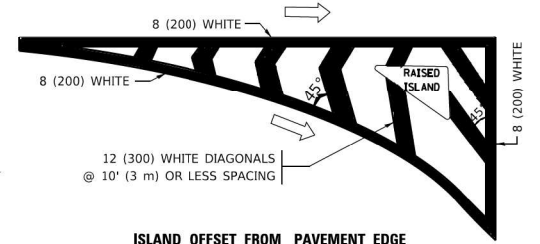
**TYPICAL PAINTED MEDIAN MARKING**



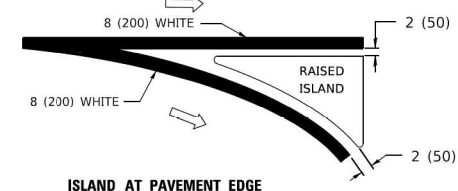
**TYPICAL LEFT (OR RIGHT) TURN LANE**

**TYPICAL TURN LANE MARKING**

FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)  
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - \*ONLY\* INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - \*ONLY\*.

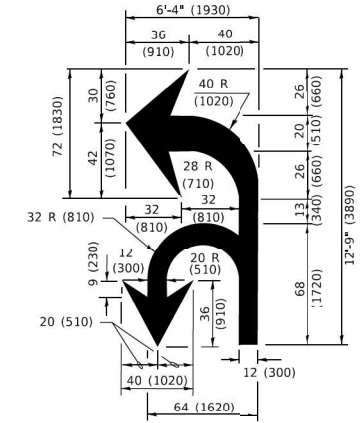


**ISLAND OFFSET FROM PAVEMENT EDGE**

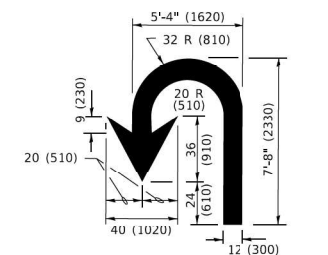


**ISLAND AT PAVEMENT EDGE**

**TYPICAL ISLAND MARKING**



**COMBINATION LEFT AND U-TURN**



**U-TURN**

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

**LANE REDUCTION TRANSITION**

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

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100); 2 @ 4 (100)	SOLID SOLID	YELLOW/YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100); 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE/WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE: FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	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 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/WHITE	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES: *RR* IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR *X*	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: *R* = 3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH *X* = 54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS > 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

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

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USER NAME	DESIGNED	REVISED
= footemj	- EVERS	- C. JUCIUS 09-09-09
	- DRAWN	- C. JUCIUS 07-01-13
	- CHECKED	- C. JUCIUS 12-21-15
	- DATE	- C. JUCIUS 04-12-16

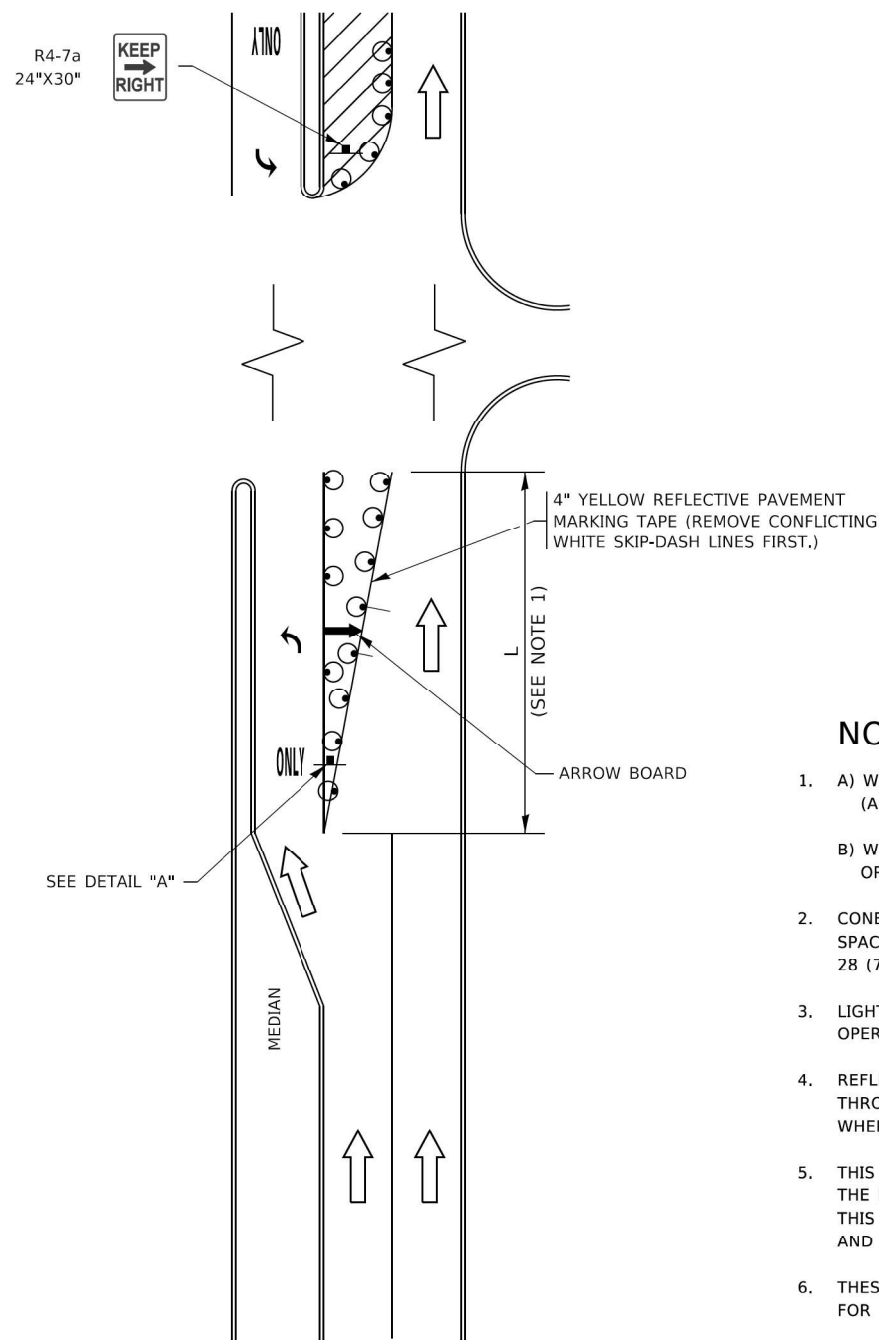
**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE	
TYPICAL PAVEMENT MARKINGS	
SCALE: NONE	SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0337	FAP 0337 22 RS	LAKE	33	26
<b>TC-13</b>			CONTRACT NO. 62T69	

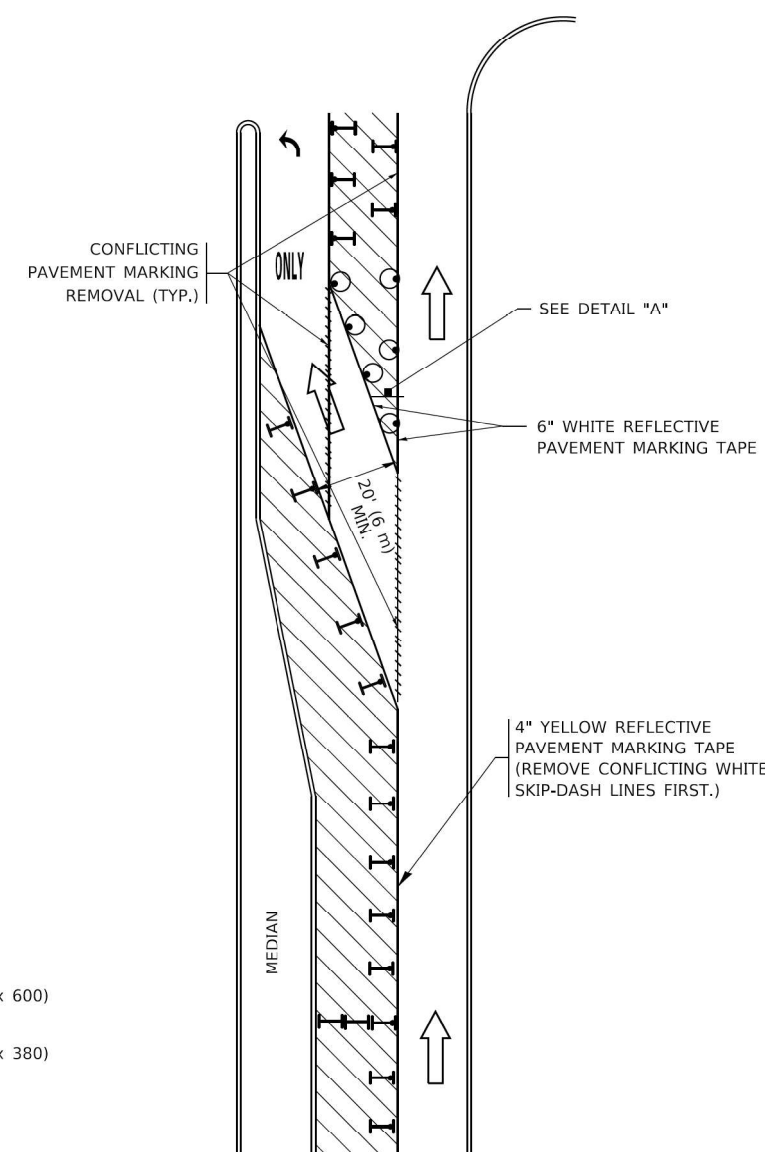
ILLINOIS | FED. AID PROJECT

# TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

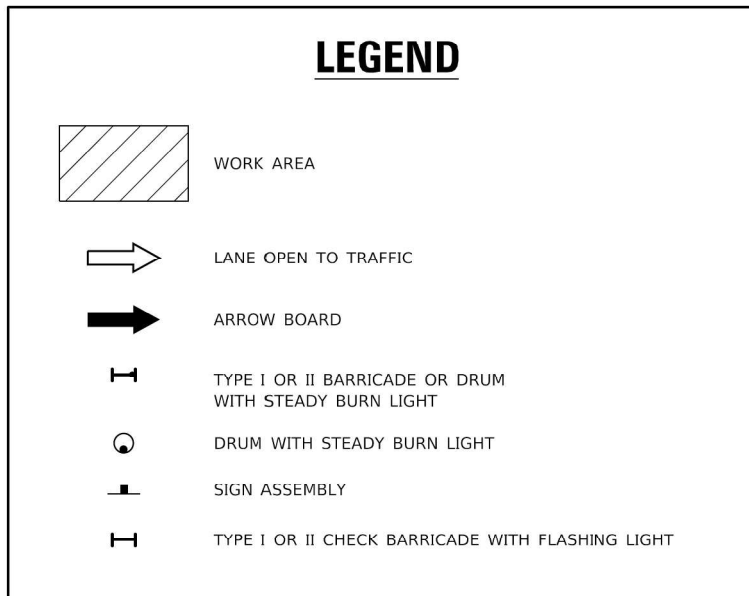


**FIGURE 1**

# TURN BAY ENTRANCE WITHIN A LANE CLOSURE

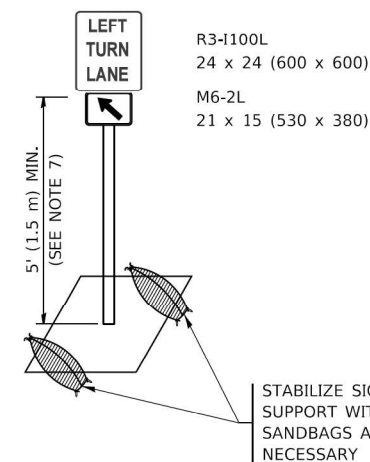


**FIGURE 2**



**NOTES:**

1. A) WHEN "L" IS  $\leq$  THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.  
 B) WHEN "L" IS  $>$  THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. 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.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-1100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH REQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.



**DETAIL A**

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

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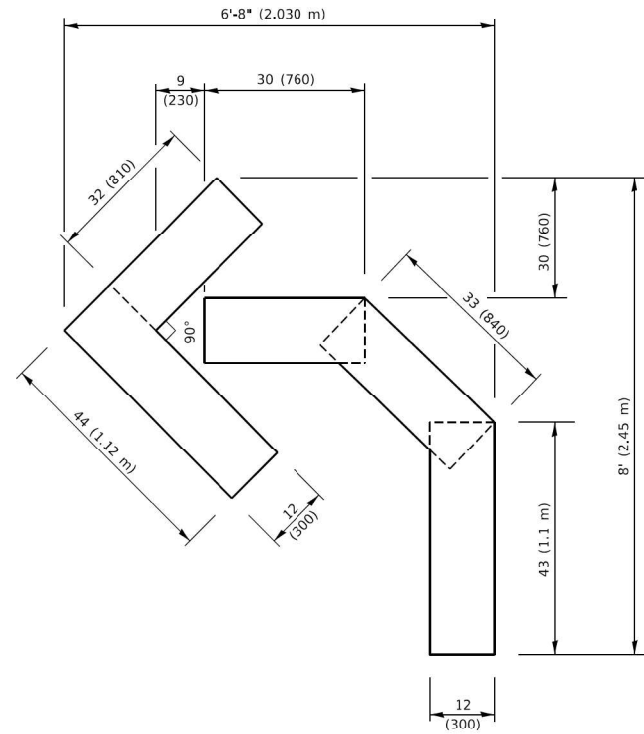
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	DRAWN - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13
PLOT SCALE = 50,0000' / 1"	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16
PLOT DATE = 3/4/2019	DATE - T. RAMMACHER 01-06-00	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS  
(TO REMAIN OPEN TO TRAFFIC)**

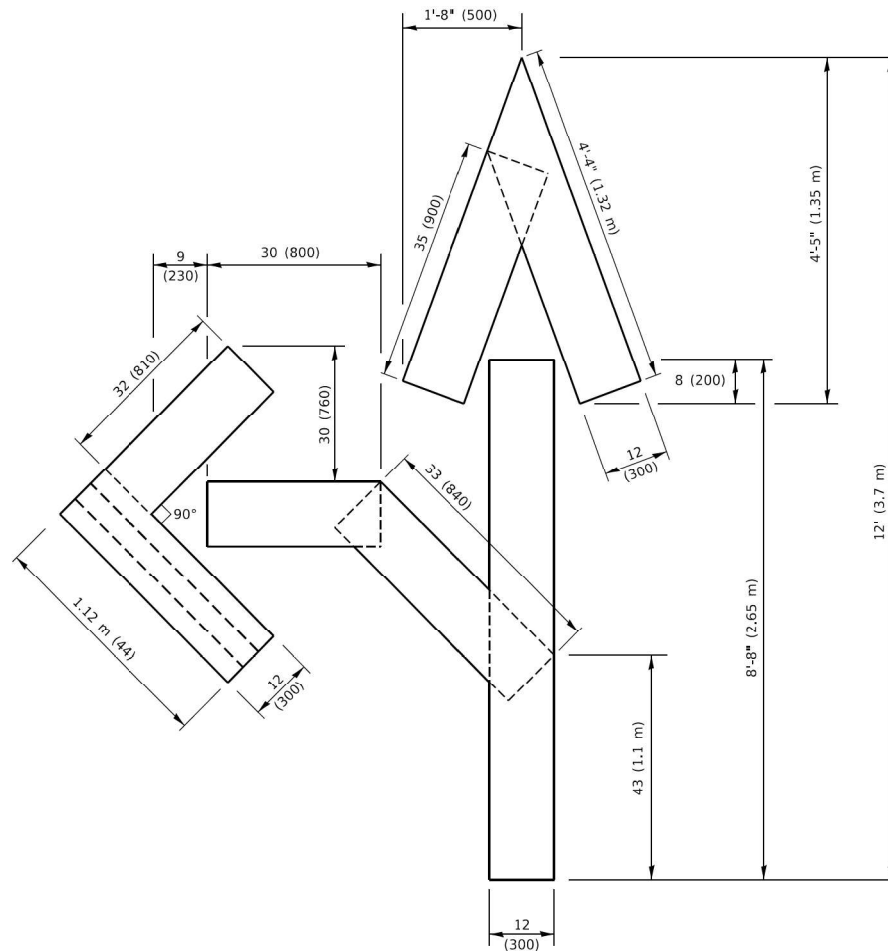
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F.A.P. RTE. 0337	SECTION FAP 0337 22 RS	COUNTY LAKE	TOTAL SHEETS 33	SHEET NO. 27
TC-14		CONTRACT NO. 62T69		
ILLINOIS FED. AID PROJECT				



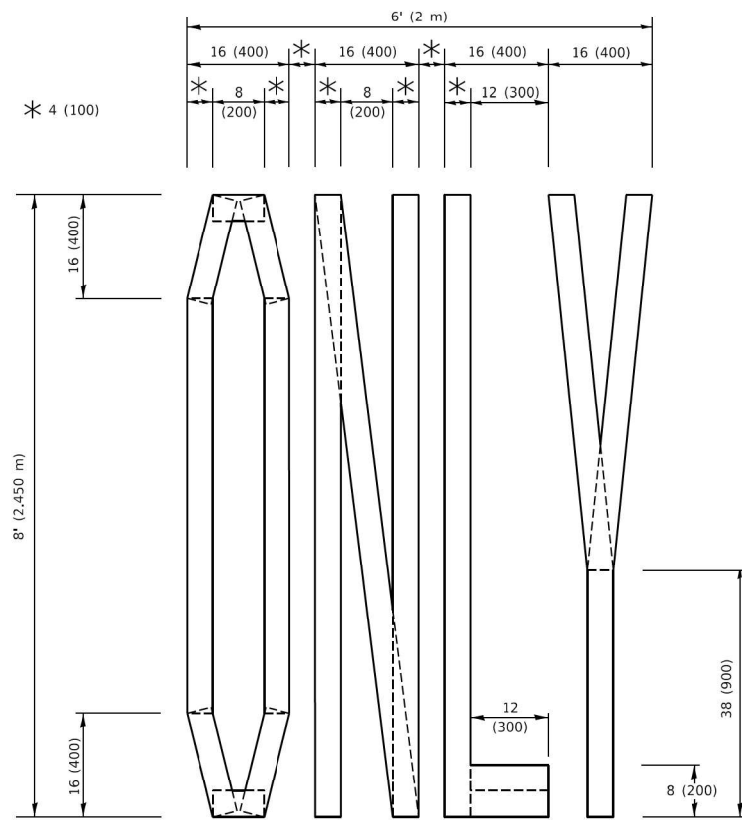
**QUANTITY**

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



**QUANTITY**

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

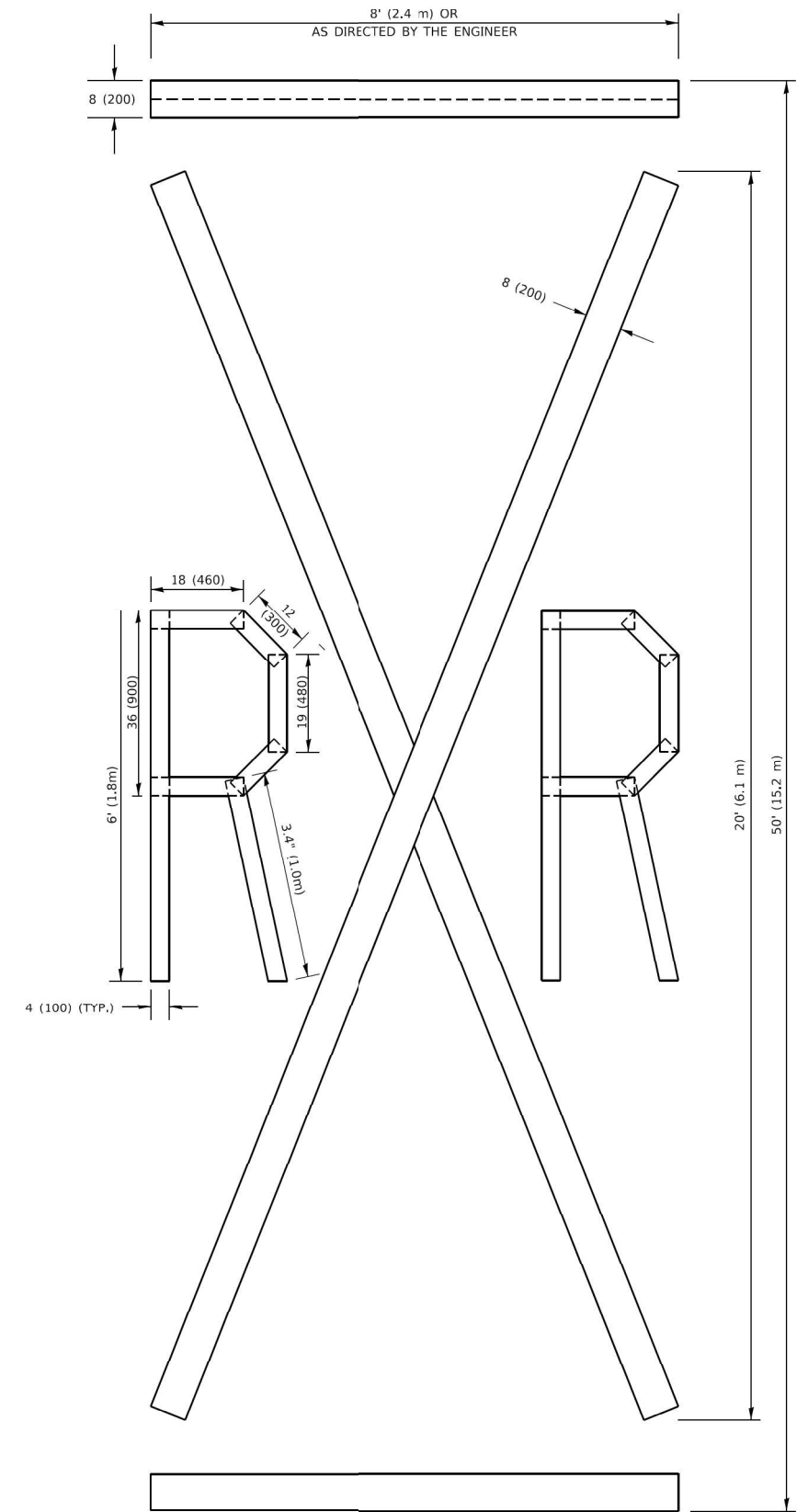


**QUANTITY**

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.

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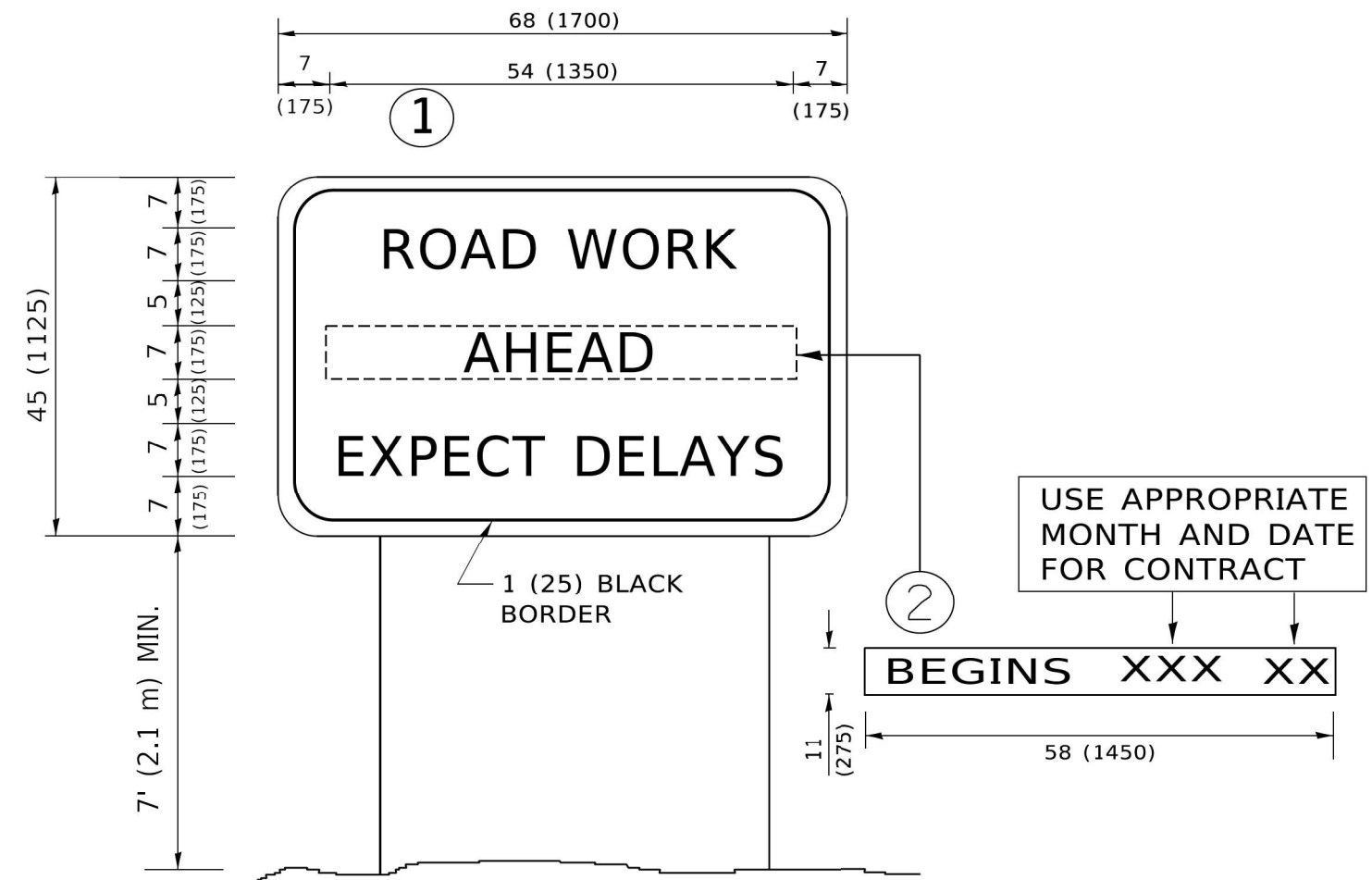
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	DRAWN -	REVISED - E. GOMEZ 08-28-00
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PLOT DATE = 3/4/2019	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0337	FAP 0337 22 RS	LAKE	33	28
<b>TC-16</b>		CONTRACT NO. 62T69		
ILLINOIS FED. AID PROJECT				



### NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT 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.

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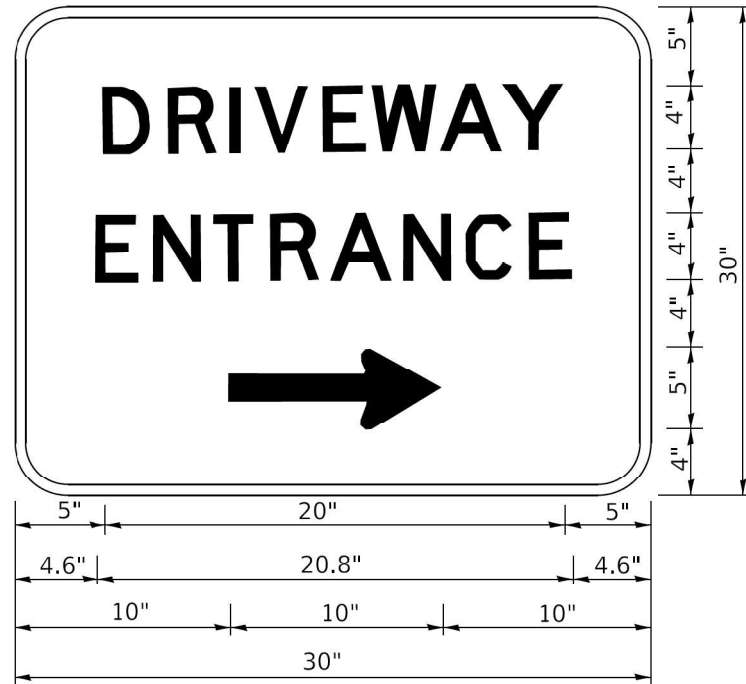
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PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD  
INFORMATION SIGN**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0337	FAP 0337 22 RS	LAKE	33	29
<b>TC-22</b>			CONTRACT NO. 62T69	
ILLINOIS FED. AID PROJECT				



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

**NOTES:**

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

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USER NAME = leysa	DESIGNED -	REVISED - C. JUCIUS 02-15-07
	DRAWN -	REVISED -
PLOT SCALE = 50,0000' / 1"	CHECKED -	REVISED -
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

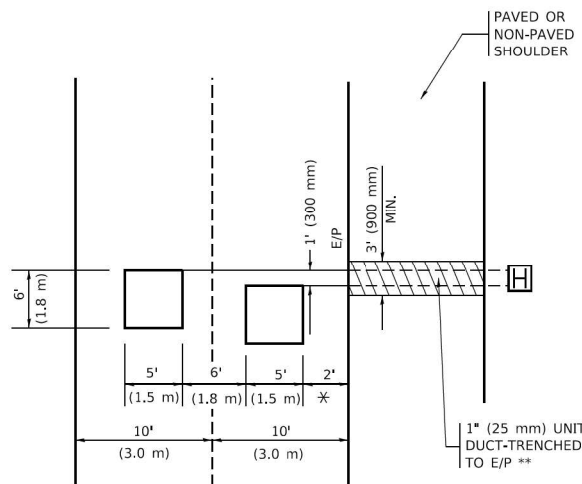
**DRIVEWAY ENTRANCE SIGNING**

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

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0337	FAP 0337 22 RS	LAKE	33	30
<b>TC-26</b>			CONTRACT NO. 62T69	
ILLINOIS   FED. AID PROJECT				

**LOOPS NEXT TO SHOULDERS**

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



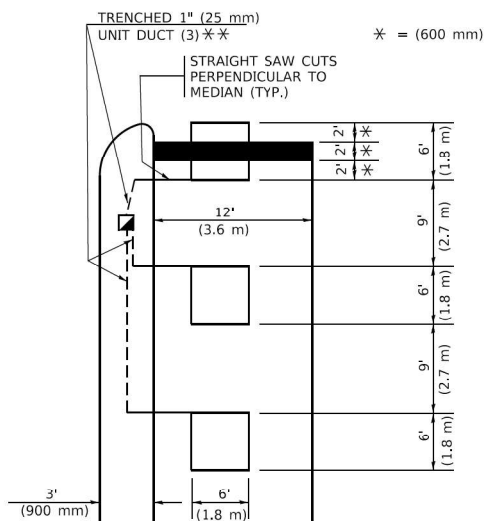
\* = (600 mm)

\*\* 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.



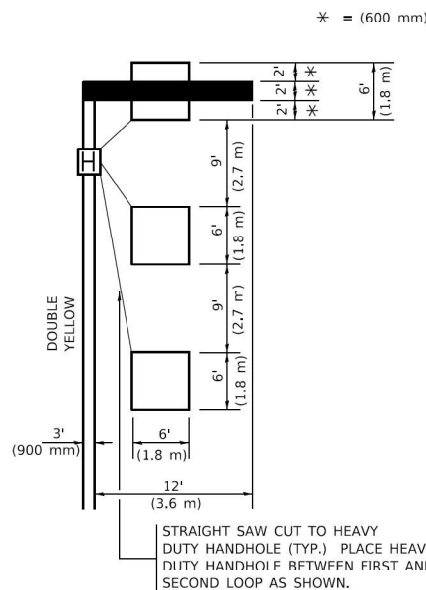
\* = (600 mm)

\*\* 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)**



\* = (600 mm)

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 SEPARATLY. 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 DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

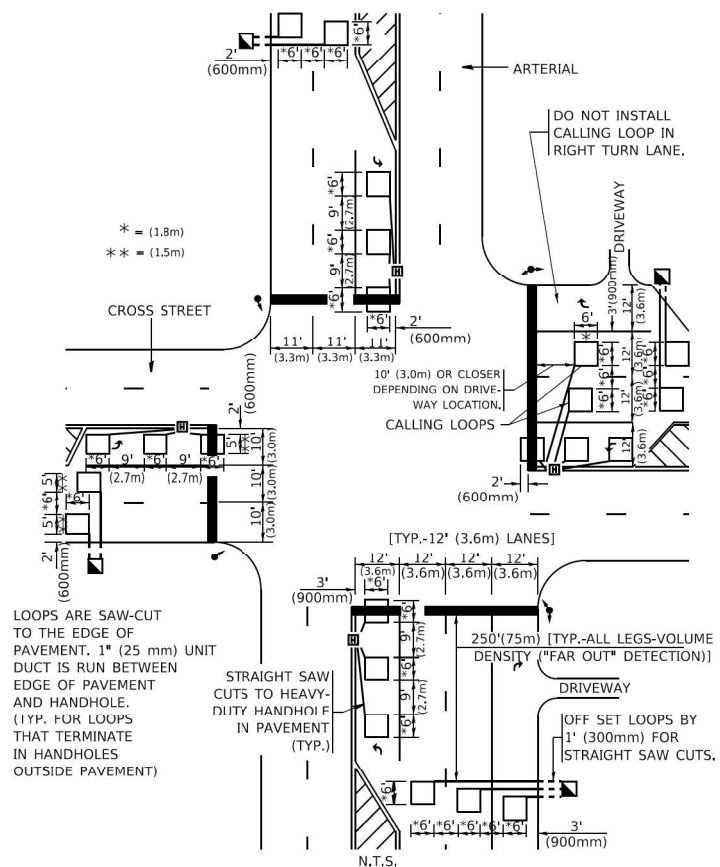
"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0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

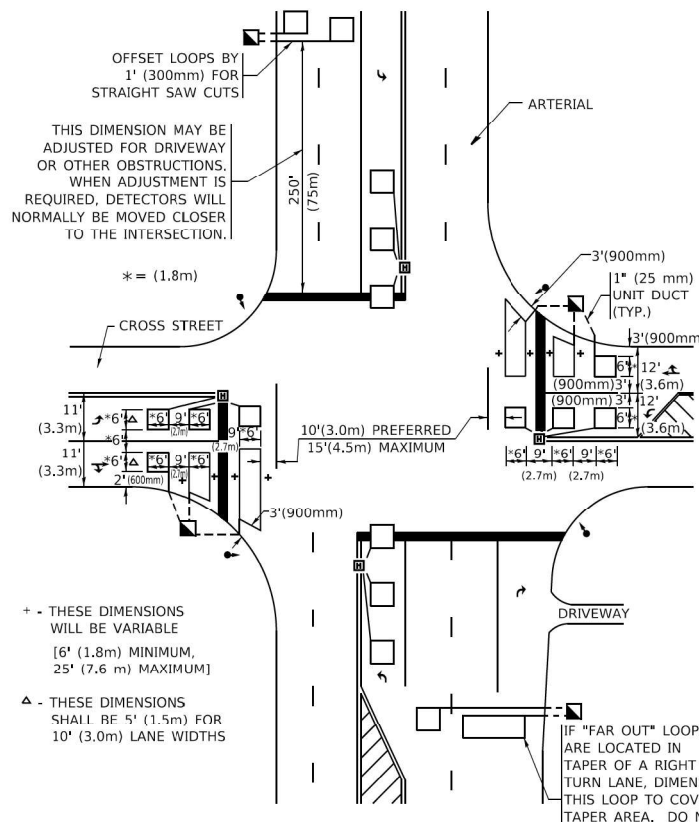
THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

**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.

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USER: R.K.F.  
PROJECT: STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION  
SHEET: 31 OF 33

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PLOT SCALE = 50,0000' / 1"	CHECKED - R.K.F.	REVISED -
PLOT DATE = 3/4/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

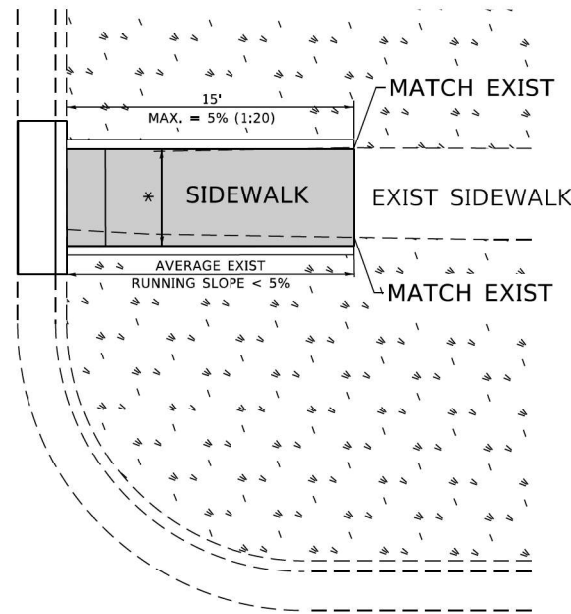
**DISTRICT 1 - DETECTOR LOOP INSTALLATION  
DETAILS FOR ROADWAY RESURFACING**

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

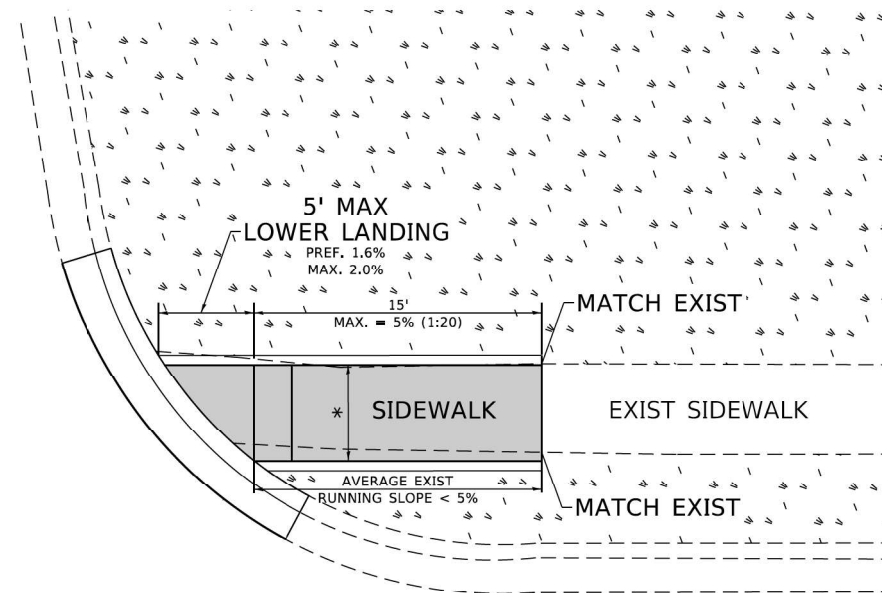
F.A.P. RTE. 0337	SECTION FAP 0337 22 RS	COUNTY LAKE	TOTAL SHEETS 33	SHEET NO. 31
TS-07		CONTRACT NO. 62T69		
ILLINOIS FED. AID PROJECT				

# ADA DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS W/ EXIST. 5% OR LESS RUN. SLOPE

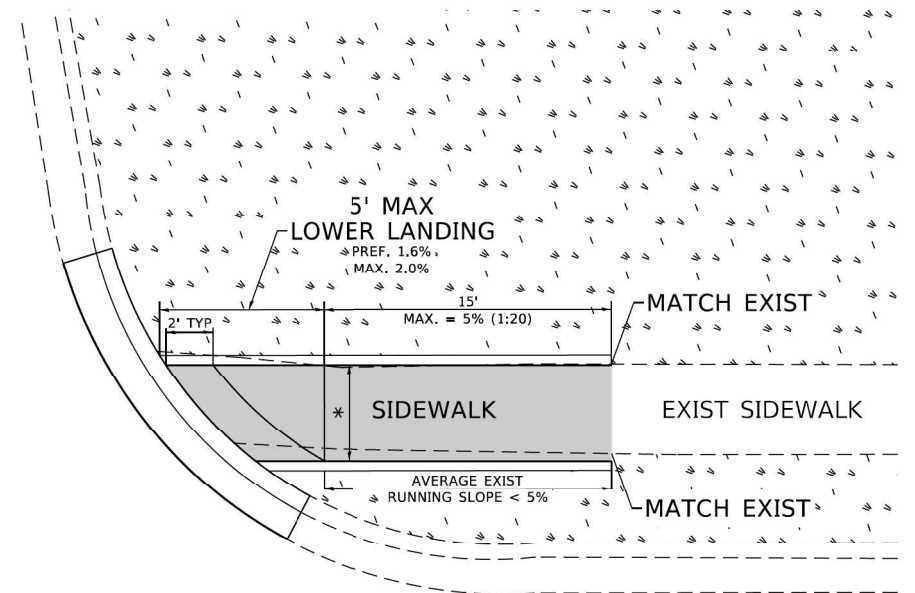
**PD-01A**



**PD-01B**



**PD-01C**



**LEGEND**

- PROPOSED SIDE CURB
- EXIST. GRASS
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS

**CONSTRUCTION NOTES:**

- 1) ALL CROSS SLOPES ARE PREFERRED 1.6% (1:64), MAXIMUM 2% (1:50) EXCEPT WHEN TRANSITIONING TO EXISTING SIDEWALK
- \* MATCH EXISTING SIDEWALK WIDTH

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USER NAME = gagliarobt	DESIGNED -	REVISED -
	DRAWN - R. LEDEZMA	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 11/19/2019	DATE - 10/02/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROJECT DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS  
(PD-01)**

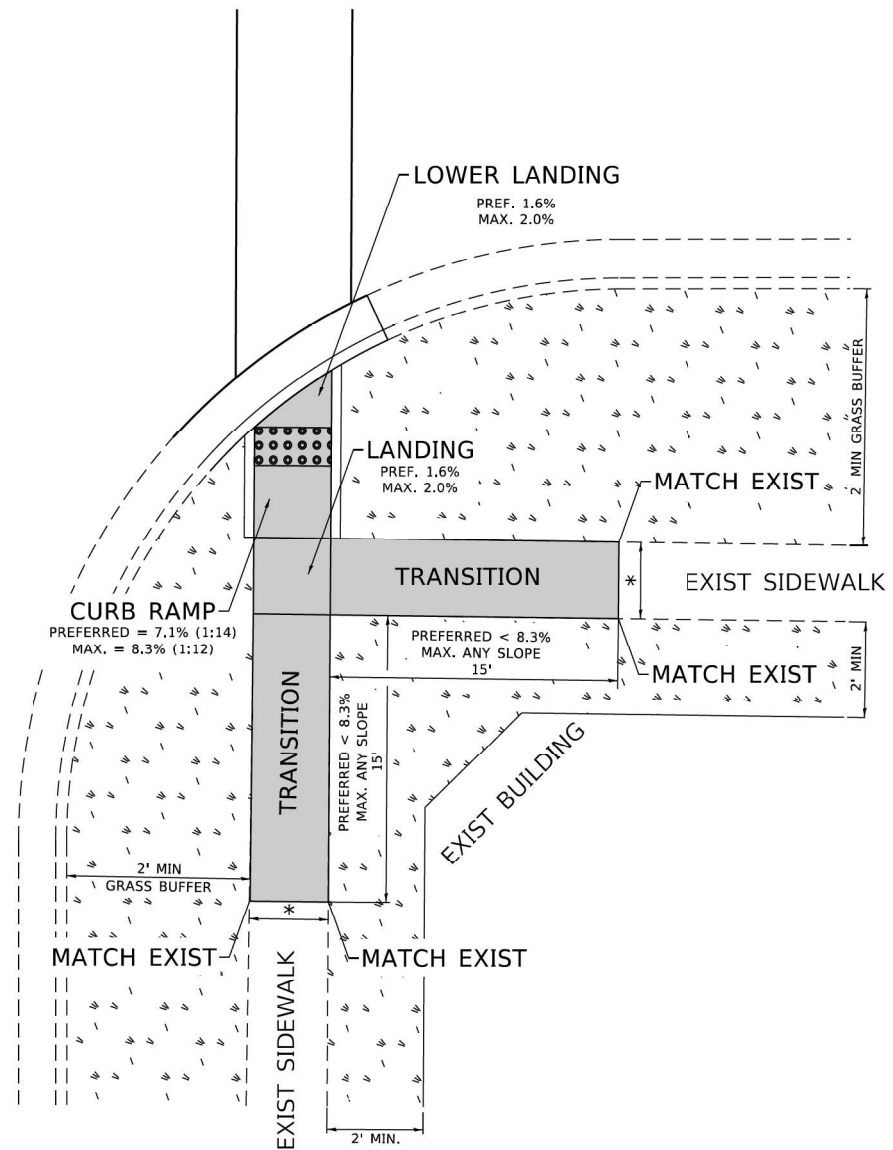
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PD-01		CONTRACT NO. 62T69		
ILLINOIS FED. AID PROJECT				

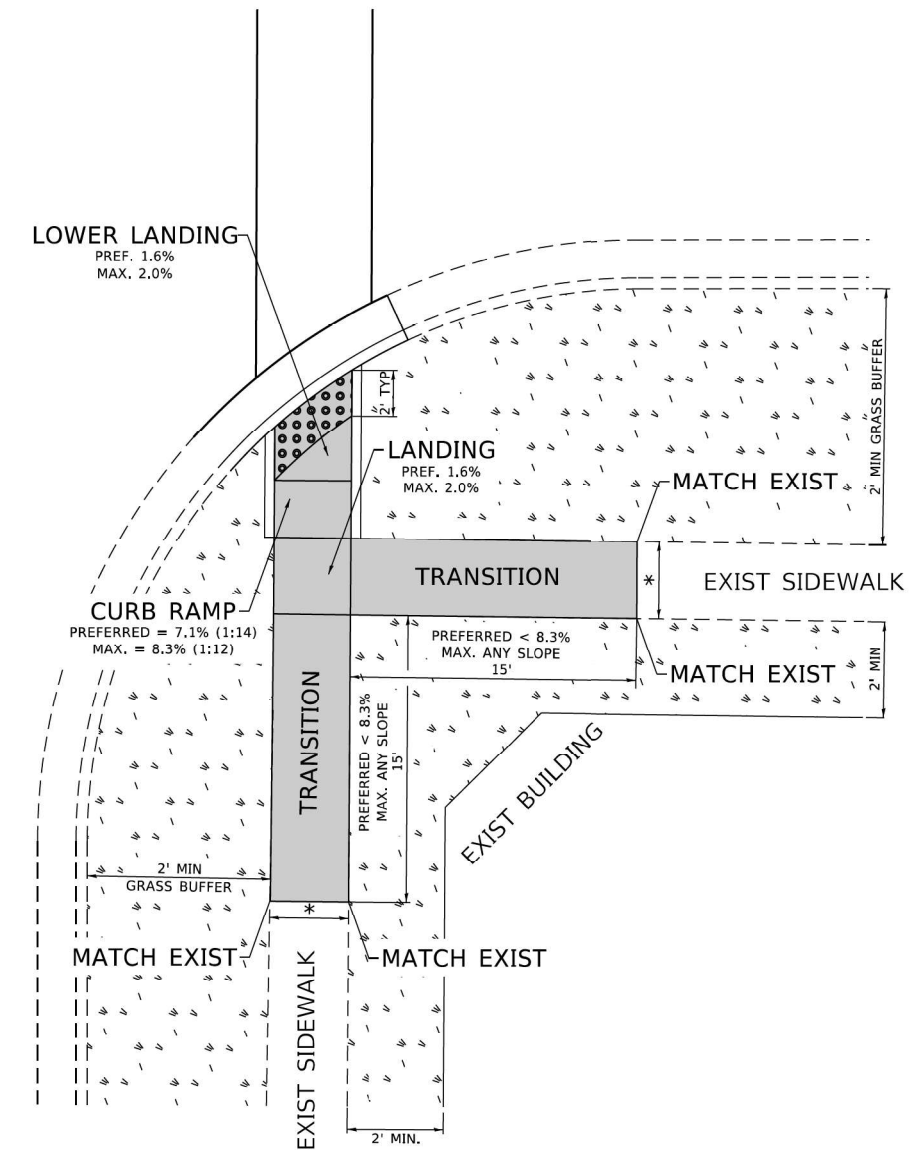


# ADA DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS W/ TURNING SPACE

**PD-04A**



**PD-04B**



**LEGEND**

- EXIST. GRASS
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- PROPOSED SIDE CURB

**CONSTRUCTION NOTES:**

- 1) ALL CROSS SLOPES ARE PREFERRED 1.6% (1:64), MAXIMUM 2% (1:50) EXCEPT WHEN TRANSITIONING TO EXISTING SIDEWALK
- \* MATCH EXISTING SIDEWALK WIDTH

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	DRAWN - R. LEDEZMA	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 11/19/2019	DATE - 10/02/2019	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PROJECT DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS  
 (PD-04)**

SCALE: NONE      SHEET      OF      SHEETS      STA.      TO      STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PD-04		CONTRACT NO. 62T69		
		ILLINOIS   FED. AID PROJECT		