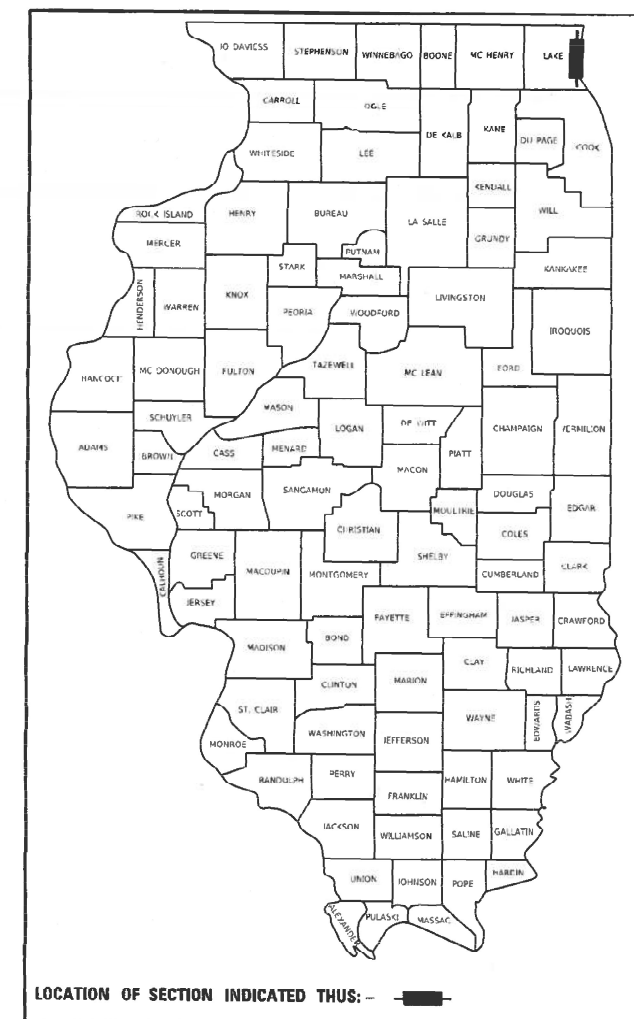


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2020-090-RS&SW	LAKE	68	1
		ILLINOIS	CONTRACT NO. 62L68	

D-91-489-20



**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 352: IL 137
BELVIDERE RD TO BUCKLEY RD
SECTION: 2020-090-RS&SW
PROJECT: NHPP-EDT0(503)
DESIGNED OVERLAY, ADA IMPROVEMENTS
LAKE COUNTY

C-91-287-20

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THIS PROJECT IS LOCATED IN THE
CITY OF NORTH CHICAGO & THE CITY OF WAUKEGAN

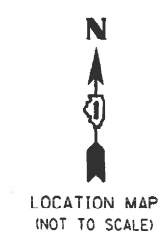
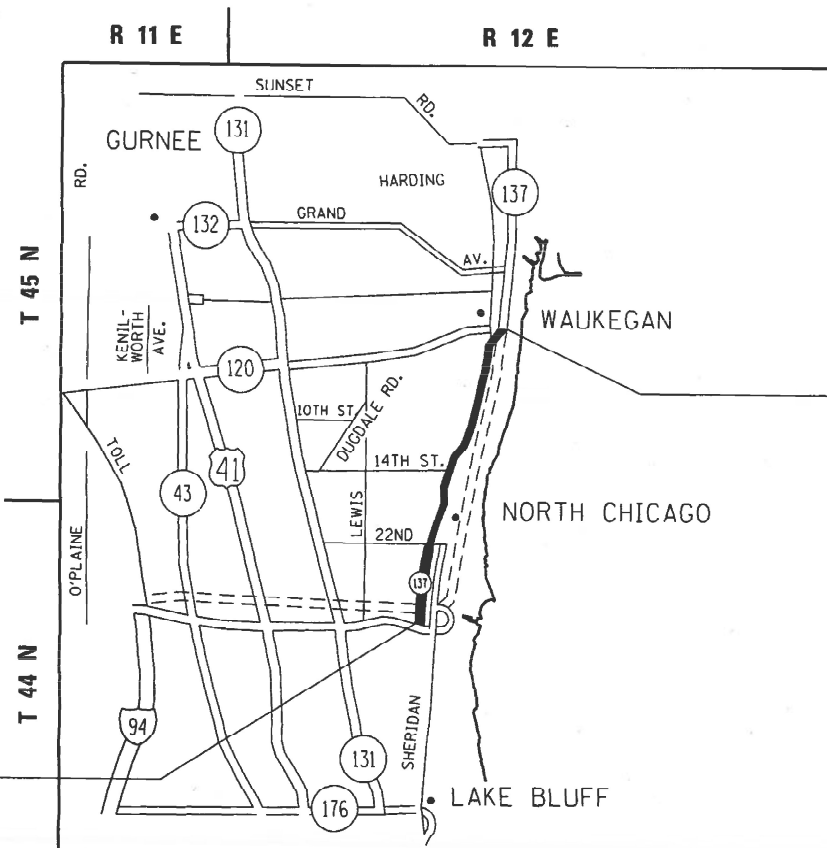
TRAFFIC DATA:

ADT (2019):

STA. 12+66 TO STA. 142+59 (BUCKLEY RD TO 10TH ST): 10,000
STA. 142+59 TO STA. 193+77 (10TH ST TO BELVIDERE RD): 23,000

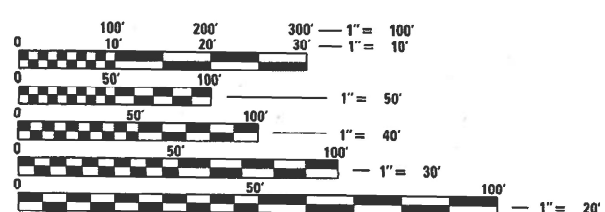
SPEED LIMIT:

STA. 13+21 TO STA. 56+73 (BUCKLEY RD TO MARTIN LUTHER KING JR. DR): 50 MPH
STA. 56+73 TO STA. 113+11 (MARTIN LUTHER KING JR. DR TO 14TH ST): 30 MPH
STA. 113+11 TO STA. 142+59 (14TH ST TO 10TH ST): 35 MPH
STA. 142+59 TO STA. 182+06 (10TH ST TO GENESEE ST): 30 MPH
STA. 182+06 TO STA. 193+77 (GENESEE ST TO BELVIDERE RD): 55 MPH



PROJECT ENDS
STA. 193 + 77

PROJECT BEGINS
STA. 13 + 21



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

PROJECT ENGINEER : LUKASZ POCIECHA (847) 705-4255
PROJECT MANAGER: FAWAD AQUEEL

CONTRACT NO. 62L68

SHIELDS & WAUKEGAN TOWNSHIPS

PROJECT LENGTH = 18,056 FT. = 3.42 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED JANUARY 28 20 22
Jose Rios REGIONAL ENGINEER

March 25 20 22
[Signature] ENGINEER OF DESIGN AND ENVIRONMENT

March 2 20 22
Stephen M. Smith DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

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50	BD-24: CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
51	BD-32: BUTT JOINT AND HMA TAPER DETAILS
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57	TC-13: DISTRICT ONE TYPICAL PAVEMENT MARKINGS
58	TC-14: TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
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60	TC-17: TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
61	TC-22: ARTERIAL ROAD INFORMATION SIGN
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65	PD-01: PROJECT DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS
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67	PD-06: PROJECT DETAIL FOR PARALLEL CURB RAMPS
68	PD-11: CRACK & JOINT SEALING DETAIL

LIST OF STATE STANDARDS

<u>STANDARD NO.</u>	<u>DESCRIPTION</u>
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
420001-10	PAVEMENT JOINTS
420111-04	PCC PAVEMENT ROUNDOUTS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-05	DIAGONAL CURB RAMPS FOR SIDEWALKS
424011-04	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424021-06	DEPRESSED CORNER FOR SIDEWALKS
424031-02	MEDIAN PEDESTRIAN CROSSING
442101-09	CLASS B PATCHES
442201-03	CLASS C AND D PATCHES
602301-04	INLET, TYPE A
602402-03	PRECAST MANHOLE, TYPE A, 5' (1.52 M) DIAMETER
604021-04	BASE, FRAME AND LIDS, TYPE 5
604046-03	FRAME AND GRATE, TYPE 10
604051-04	FRAME AND GRATE, TYPE 11
604086-05	FRAME AND GRATE, TYPE 23
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-04	PC CONCRETE ISLANDS AND MEDIANS
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ? 45 MPH
701421-08	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS ? 45 MPH TO 55 MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS ? 45 MPH
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS ? 40 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
780001-05	TYPICAL PAVEMENT MARKINGS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUT FOR DETECTION LOOPS

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS AND STANDARDS
IL 137 (BELVIDERE RD TO BUCKLEY RD)**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2020-090-R5&SW	LAKE	68	2
CONTRACT NO. 62L68				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.
2. TEN (10) FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS AND GUTTER AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.
3. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, CITY OF WAUKEGAN, CITY OF NORTH CHICAGO.
4. THE CONTRATOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
5. USE #8 EPOXY-COATED TIE BARS, CONFORMING TO ART. 1006.10 OF THE STANDARD SPECIFICATIONS, FOR ALL TIE BARS. USE THE "LONGITUDINAL CONSTRUCTION JOINT (TIE BAR GROUTED IN PLACE)" DETAIL SHOWN ON HIGHWAY STANDARD 420001 FOR ALL LONGITUDINAL JOINTS.
6. ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.
7. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.
8. 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.
9. ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
10. LOCATION OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
11. DRAINAGE ADJUSTEMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
12. FRAMES AND GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.
13. SIDEWALK REMOVAL AND PCC SIDEWALK 5" LOCATIONS SHALL BE DETERMINED BY THE ENGINEER.
14. SIDEWALK RAMP MODIFICATIONS WITHIN THE LIMITS OF THE PROJECT SHALL CONFIRM TO THE APPLICABLE HIGHWAY STANDARDS INCLUDED IN THE PLANS.
15. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
16. THE CONTRACTOR SHALL CONTACT THE IDOT DISTRICT ONE ARTERIAL TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
17. THE RESIDENT ENGINEER SHALL CONTACT FADI SULTAN, AREA TRAFFIC FIELD ENGINEER, VIA EMAIL AT FADI.SULTAN@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
18. THE THICKNESS OF THE HMA MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULATIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA MIXTURE IS PLACED.
19. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTIES AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
20. 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 ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPERATE PAY ITEM HAS BEEN PROVIDED.
21. ALL CLASS B PAVEMENT PATCHING WHICH REQUIRES FRAMES AND GRATES TO BE ADJUSTED SHALL BE CONSTRUCTED UTILIZING "CAST IN PLACE" ALTERNATE ACCORDING TO STATE HIGHWAY STANDARD 420111 FOR "PCC PAVEMENT ROUNDOUTS".
22. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
23. DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN IN THE PLANS.
24. PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.
25. PROPOSED MODIFIED URETHANE PAVEMENT MARKINGS ARE TO BE PLACED DIRECTLY OVER EXISTING PAVEMENT MARKINGS ON PCC PAVEMENT, UNLESS NOTED OTHERWISE IN THE PLANS.
26. THE "ARTERIAL ROAD INFORMATION SIGN (TC-22)" IS APPLICABLE ONLY TO ARTERIAL ROADS AND SHALL NOT BE APPLIED TO EXPRESSWAYS/TOLLWAYS.
27. WHEN THE MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES (40 MM) WHERE THE SPEED LIMIT IS 40 MPH (80 KM/H) OR LESS AND 1 INCH (25 MM) WHERE THE SPEED LIMIT IS GREATER THAN 40 MPH (80 KM/H). WITH WRITTEN APPROVAL OF THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 MM) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H) OR A NOTCHED LONGITUDINAL WEDGE IS USED.
28. MATERIALS RESULTING FROM THE ROUTING OF CRACKS IN THE EXISTING PAVEMENT MAY BE PLACED, SHAPED AND COMPACTED TO THE SATISFACTION OF THE ENGINEER ALONG EXISTING AGGREGATE SHOULDERS ADJACENT TO THE PAVEMENT. ALL MATERIALS RESULTING FROM THE ROUTING OF CRACKS IN PAVEMENT WITHOUT AGGREGATE SHOULDERS AND SURPLUS MATERIALS RESULTING FROM THE ROUTING OF CRACKS IN PAVEMENTS WITH AGGREGATE SHOULDERS, WHERE ALL MATERIALS ARE NOT PLACED ALONG EXISINT AGGREGATE SHOULDERS, SHALL BE DISPOSED OF AS SPECIFIED IN ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS. OLD SEALANTS REMOVED PRIOR TO ROUTING SHALL BE DISPOSED OF AS SPECIFIED IN ARTICLE 202.03. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT THE COST SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE FOR THE CONSTRUCTION ITEMS INVOLVED, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
29. WHEN GRADE CROSSINGS EXIST EITHER WITHIN OR IN THE VICINITY OF A TCC ZONE, LANE RESTRICTIONS, FLAGGING, OR OTHER OPERATIONS SHALL NOT CREATE CONDITIONS WHERE VEHICLES CAN BE QUED ACROSS THE TRACKS. IF THE QUEUING OF VEHICLES ACROSS THE TRACKS CANNOT BE AVOIDED, A UNIFORMED LAW ENFORCEMENT OFFICER OR FLAGGER SHALL BE PROVIDED AT THE CROSSING TO PREVENT VEHICLES FROM STOPPING ON THE TRACKS, EVEN IF AUTOMATIC WARNING DEVICES ARE IN PLACE.
30. THE CONTRACTOR MUST EXERCISE CAUTION WHEN MILLING AND PAVING UNDER THE RAILROAD STRUCTURE AS TO NOT CHANGE OR NEGATIVELY IMPAC THE MINIMUM VERTICAL CLEARANCE UNDER THE STRUCTURE.
31. THE CONTRACTOR IS TO USE UP FOLDER NUMBER (2297-58) WHEN COMMUNICATING WITH UNION PACIFIC RAILROAD.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES
IL 137 (BELVIDERE RD TO BUCKLEY RD)**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2020-090-R5&SW	LAKE	68	3
CONTRACT NO. 62L68			ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		0005 ROADWAY 80% NHPP (FED) 20% STATE LAKE COUNTY	0005 ROADWAY 100% STATE LAKE COUNTY	0021 SIGNAL 80% NHPP (FED) 20% STATE LAKE COUNTY		
20200100	EARTH EXCAVATION	CU YD	157	157				
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	426	426				
25200110	SODDING, SALT TOLERANT	SQ YD	426	426				
25200200	SUPPLEMENTAL WATERING	UNIT	19.2	19.2				
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD	8	8				
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	24	24				
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	90914	90914				
40600370	LONGITUDINAL JOINT SEALANT	FOOT	46063	46063				
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	180	180				
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	804	804				
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	449	449				
40602985	HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70	TON	8288	8288				
40603200	POLYMERIZED HOT-MIX APSHALT BINDER COURSE, IL-4.75, N50	TON	1885	1885				
40604060	HOT MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50	TON	4	4				

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		0005 ROADWAY 80% NHPP (FED) 20% STATE LAKE COUNTY	0005 ROADWAY 100% STATE LAKE COUNTY	0021 SIGNAL 80% NHPP (FED) 20% STATE LAKE COUNTY		
40604062	HOT MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70	TON	10095	10095				
40605026	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80	TON	1713	1713				
42001300	PROTECTIVE COAT	SQ YD	2650	2650				
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	24	24				
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	71	71				
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	13836	13836				
42400800	DETECTABLE WARNINGS	SQ FT	827	827				
44000100	PAVEMENT REMOVAL	SQ YD	74	74				
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	45626	45626				
44000164	HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4"	SQ YD	73993	73993				
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	125	125				
44000600	SIDEWALK REMOVAL	SQ FT	14474	14474				
44002210	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 2 1/2"	SQ YD	502	502				
								* SPECIALTY ITEMS

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES IL 137 (BELVIDERE RD TO BUCKLEY RD)	
SCALE: -	SHEET 1 OF 6 SHEETS STA. - TO STA. -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2020-090-R5&SW	LAKE	68	4
CONTRACT NO. 62L68			ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		0005 ROADWAY 80% NHPP (FED) 20% STATE LAKE COUNTY	0005 ROADWAY 100% STATE LAKE COUNTY	0021 SIGNAL 80% NHPP (FED) 20% STATE LAKE COUNTY		
44002212	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 3"	SQ YD	523	523				
44002219	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 4 3/4"	SQ YD	1092	1092				
44003100	MEDIAN REMOVAL	SQ FT	205	205				
44200050	WELDED WIRE REINFORCEMENT	SQ YD	211	211				
44200970	CLASS B PATCHES, TYPE II, 10 INCH	SQ YD	443	443				
44200974	CLASS B PATCHES, TYPE III, 10 INCH	SQ YD	69	69				
44200976	CLASS B PATCHES, TYPE IV, 10 INCH	SQ YD	141	141				
44201299	DOWEL BARS 1 1/2"	EACH	1116	1116				
44201737	CLASS D PATCHES, TYPE I, 8 INCH	SQ YD	10	10				
44201741	CLASS D PATCHES, TYPE II, 8 INCH	SQ YD	223	223				
44201745	CLASS D PATCHES, TYPE III, 8 INCH	SQ YD	23	23				
44201747	CLASS D PATCHES, TYPE IV, 8 INCH	SQ YD	69	69				
44201761	CLASS D PATCHES, TYPE I, 10 INCH	SQ YD	51	51				
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	1233	1233				
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	128	128				

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		0005 ROADWAY 80% NHPP (FED) 20% STATE LAKE COUNTY	0005 ROADWAY 100% STATE LAKE COUNTY	0021 SIGNAL 80% NHPP (FED) 20% STATE LAKE COUNTY		
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	382	382				
44213200	SAW CUTS	FOOT	3928	3928				
44213202	TIE BARS 1"	EACH	239	239				
45200100	JOINT OR CRACK ROUTING (PC CONCRETE PAVEMENT AND SHOULDER)	FOOT	12055	12055				
45200300	JOINT OR CRACK FILLING	POUND	3444	3444				
60255500	MANHOLES TO BE ADJUSTED	EACH	2	2				
60260100	INLETS TO BE ADJUSTED	EACH	8	8				
60261530	INLETS TO BE ADJUSTED WITH NEW TYPE 23 FRAME AND GRATE	EACH	4	4				
60266600	VALVE BOXES TO BE ADJUSTED	EACH	31	31				
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	3	3				
60404800	FRAMES AND GRATES, TYPE 11	EACH	5	5				
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	10	10				
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	157	157				
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	6	6				
								* SPECIALTY ITEMS

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES IL 137 (BELVIDERE RD TO BUCKLEY RD)	
SCALE: -	SHEET 2 OF 6 SHEETS STA. - TO STA. -

F.A.P. RTE. 352	SECTION 2020-090-R5&SW	COUNTY LAKE	TOTAL SHEETS 68	SHEET NO. 5
			CONTRACT NO. 62L68	
		ILLINOIS	FED. AID PROJECT	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		0005 ROADWAY 80% NHPP (FED) 20% STATE LAKE COUNTY	0005 ROADWAY 100% STATE LAKE COUNTY	0021 SIGNAL 80% NHPP (FED) 20% STATE LAKE COUNTY		
* 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	15	15				
67100100	MOBILIZATION	L SUM	1	1				
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD	L SUM	1	1				
	701421							
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD	L SUM	1	1				
	701501							
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD	L SUM	1	1				
	701606							
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD	L SUM	1	1				
	701601							
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD	L SUM	1	1				
	701701							
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD	L SUM	1	1				
	701801							

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		0005 ROADWAY 80% NHPP (FED) 20% STATE LAKE COUNTY	0005 ROADWAY 100% STATE LAKE COUNTY	0021 SIGNAL 80% NHPP (FED) 20% STATE LAKE COUNTY		
70300100	SHORT TERM PAVEMENT MARKING	FOOT	30892	30892				
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	17922	17922				
70300211	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - PAINT	SQ FT	780	780				
70300221	TEMPORARY PAVEMENT MARKING - LINE 4"- PAINT	FOOT	50136	50136				
70300231	TEMPORARY PAVEMENT MARKING - LINE 5"- PAINT	FOOT	2092	2092				
70300241	TEMPORARY PAVEMENT MARKING - LINE 6"- PAINT	FOOT	3990	3990				
70300251	TEMPORARY PAVEMENT MARKING - LINE 8"- PAINT	FOOT	3343	3343				
70300261	TEMPORARY PAVEMENT MARKING - LINE 12"- PAINT	FOOT	4936	4936				
70300281	TEMPORARY PAVEMENT MARKING - LINE 24"- PAINT	FOOT	822	822				
70306100	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - TYPE III TAPE	SQ FT	623	623				
70306120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE III TAPE	FOOT	5859	5859				
70307100	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - TYPE IV TAPE	SQ FT	238	238				
								* SPECIALTY ITEMS

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES IL 137 (BELVIDERE RD TO BUCKLEY RD)	
SCALE: -	SHEET 3 OF 6 SHEETS STA. - TO STA. -

F.A.P. RTE. 352	SECTION 2020-090-R5&SW	COUNTY LAKE	TOTAL SHEETS 68	SHEET NO. 6
			CONTRACT NO. 62L68	
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		0005 ROADWAY 80% NHPP (FED) 20% STATE LAKE COUNTY	0005 ROADWAY 100% STATE LAKE COUNTY	0021 SIGNAL 80% NHPP (FED) 20% STATE LAKE COUNTY		
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE	FOOT	9858	9858				
	IV TAPE							
70307130	TEMPORARY PAVEMENT MARKING - LINE 6" - TYPE	FOOT	977	977				
	IV TAPE							
70307140	TEMPORARY PAVEMENT MARKING - LINE 8" - TYPE	FOOT	164	164				
	IV TAPE							
70307160	TEMPORARY PAVEMENT MARKING - LINE 12"- TYPE	FOOT	518	518				
	IV TAPE							
70307210	TEMPORARY PAVEMENT MARKING - LINE 24"- TYPE	FOOT	204	204				
	IV TAPE							
72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	5	5				
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	919	919				
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	64003	64003				
* 78000300	THERMOPLASTIC PAVEMENT MARKING - LINE 5"	FOOT	1706	1706				
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	4006	4006				
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	3061	3061				
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	5307	5307				

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		0005 ROADWAY 80% NHPP (FED) 20% STATE LAKE COUNTY	0005 ROADWAY 100% STATE LAKE COUNTY	0021 SIGNAL 80% NHPP (FED) 20% STATE LAKE COUNTY		
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	881	881				
* 78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	171	171				
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	5819	5819				
* 78009005	MODIFIED URETHANE PAVEMENT MARKING - LINE 5"	FOOT	386	386				
* 78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	1310	1310				
* 78009008	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	FOOT	427	427				
* 78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	913	913				
* 78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	142	142				
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	1382	1382				
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	1382	1382				
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	30227	30227				
* 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	309		309			
								* SPECIALTY ITEMS

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES	
IL 137 (BELVIDERE RD TO BUCKLEY RD)	
SCALE: -	SHEET 4 OF 6 SHEETS STA. - TO STA. -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2020-090-R5&SW	LAKE	68	7
CONTRACT NO. 62L68			ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE			
CODE NO	ITEM	UNIT		0005 ROADWAY 80% NHPP (FED) 20% STATE LAKE COUNTY	0005 ROADWAY 100% STATE LAKE COUNTY	0021 SIGNAL 80% NHPP (FED) 20% STATE LAKE COUNTY	
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL	EACH	8			8	
	INSTALLATION						
* 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	2452			2452	
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1070			1070	
* 87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	430			430	
* 87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT	FOOT	585			585	
	GROUNDING CONDUCTOR, NO. 6 1C						
* 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	8			8	
* 87900200	DRILL EXISTING HANDHOLE	EACH	17			17	
* 88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET	EACH	1			1	
	MOUNTED						
* 88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM	EACH	1			1	
	MOUNTED						
* 88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET	EACH	8			8	
	MOUNTED WITH COUNTDOWN TIMER						

SUMMARY OF QUANTITIES				TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE			
CODE NO	ITEM	UNIT			0005 ROADWAY 80% NHPP (FED) 20% STATE LAKE COUNTY	0005 ROADWAY 100% STATE LAKE COUNTY	0021 SIGNAL 80% NHPP (FED) 20% STATE LAKE COUNTY	
* 88600100	DETECTOR LOOP, TYPE I	FOOT	3900			3900		
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	270			270		
* 89500100	RELOCATE EXISTING SIGNAL HEAD	EACH	1			1		
* 89500200	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	7			7		
* 89501150	RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	2			2		
* 89502200	MODIFY EXISTING CONTROLLER	EACH	1			1		
* 89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3680			3680		
* 89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	40			40		
* 89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	7			7		
* 89502376	REBUILD EXISTING HANDHOLE	EACH	10			10		
* 89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	3			3		
X0320050	CONSTRUCTION LAYOUT (SPECIAL)	L SUM	1	1				
* X1400367	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	4			4		
								* SPECIALTY ITEMS

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES	
IL 137 (BELVIDERE RD TO BUCKLEY RD)	
SCALE: -	SHEET 5 OF 6 SHEETS STA. - TO STA. -

F.A.P. RTE. 352	SECTION 2020-090-R5&SW	COUNTY LAKE	TOTAL SHEETS 68	SHEET NO. 8
CONTRACT NO. 62L68			ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		0005 ROADWAY 80% NHPP (FED) 20% STATE LAKE COUNTY	0005 ROADWAY 100% STATE LAKE COUNTY	0021 SIGNAL 80% NHPP (FED) 20% STATE LAKE COUNTY		
* X1400378	PEDESTRIAN SIGNAL POST, 5 FT.	EACH	10			10		
X4060995	TEMPORARY RAMP, SPECIAL	SQ YD	88	88				
X4400501	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT LESS THAN OR EQUAL TO 10 FEET	FOOT	409	409				
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	1831	1831				
X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	2000		2000			
X6026050	SANITARY MANHOLES TO BE ADJUSTED	EACH	19	19				
X6026051	SANITARY MANHOLES TO BE RECONSTRUCTED	EACH	16	16				
X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	168	168				
X6700407	ENGINEERS'S FIELD OFFICE, TYPE A (D1)	CAL MO	12	12				
* X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	46		46			
* X8780012	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	56		56			
Z0004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	3722	3722				
Z0018400	DRAINAGE STRUCTURES TO BE ADJUSTED	EACH	117	117				

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		0005 ROADWAY 80% NHPP (FED) 20% STATE LAKE COUNTY	0005 ROADWAY 100% STATE LAKE COUNTY	0021 SIGNAL 80% NHPP (FED) 20% STATE LAKE COUNTY		
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	285	285				
Z0018600	DRAINAGE STRUCTURES TO BE RECONSTRUCTED	EACH	16	16				
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	51.4	51.4				
* Z0033044	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	3			3		
* Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1			1		
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1				
Z0076600	TRAINEES	HOURS	500	500				
Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOURS	500	500				
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	1	1				
89502380	REMOVE EXISTING HANDHOLE	EACH	1	1				
X1400388	VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	4	4				

* SPECIALTY ITEMS

0042

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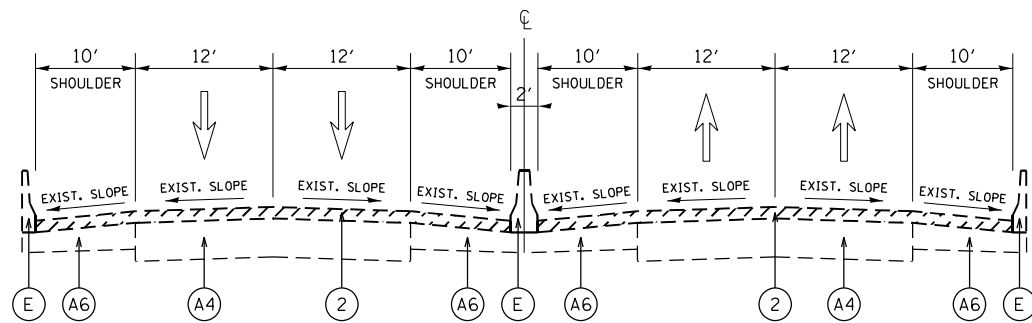
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
IL 137 (BELVIDERE RD TO BUCKLEY RD)			
SCALE: -	SHEET 6	OF 6 SHEETS	STA. - TO STA. -

F.A.P. RTE. 352	SECTION 2020-090-R5&SW	COUNTY LAKE	TOTAL SHEETS 68	SHEET NO. 9
			CONTRACT NO. 62L68	
ILLINOIS FED. AID PROJECT				

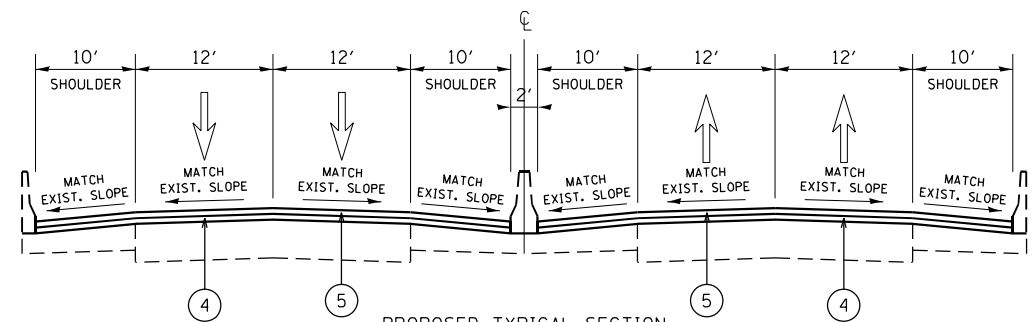
IL 137 (BOBBY E. THOMPSON EXPY)



EXISTING TYPICAL SECTION

STA. 13+21 TO STA. 39+21
STA. 42+30 TO STA. 51+56

IL 137 (BOBBY E. THOMPSON EXPY)



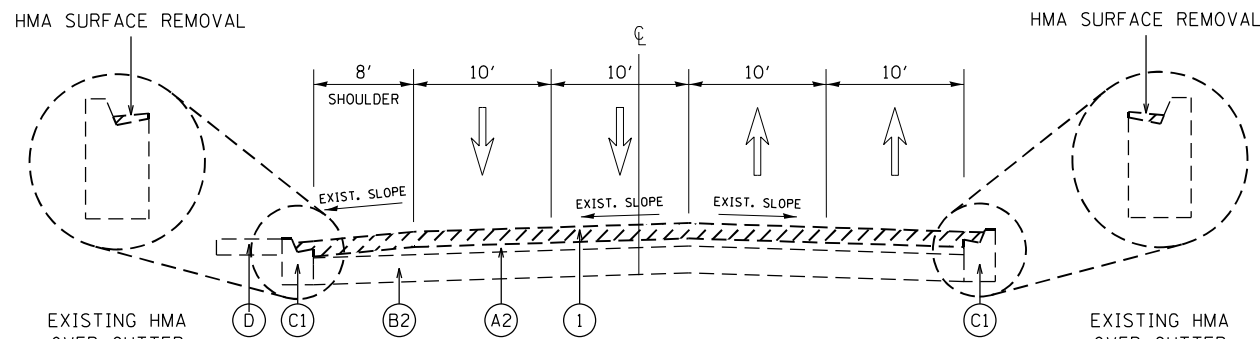
PROPOSED TYPICAL SECTION

STA. 13+21 TO STA. 39+21
STA. 42+30 TO STA. 51+56

EXISTING LEGEND

- (A1) HOT-MIX ASPHALT, 2 1/2" & VARIES
- (A2) HOT-MIX ASPHALT, 3" & VARIES
- (A3) HOT-MIX ASPHALT, 4 3/4" & VARIES
- (A4) HOT-MIX ASPHALT, 14" & VARIES
- (A5) HOT-MIX ASPHALT, 14 1/2" & VARIES
- (A6) HMA SHOULDER, 10" & VARIES
- (B1) P.C.C. BASE COURSE, 8" & VARIES
- (B2) P.C.C. BASE COURSE, 10" & VARIES
- (C1) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (C2) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18
- (C3) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (C4) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.18
- (D) P.C.C. SIDEWALK, 5"
- (E) CONCRETE BARRIER

IL 137 (SHERIDAN RD)



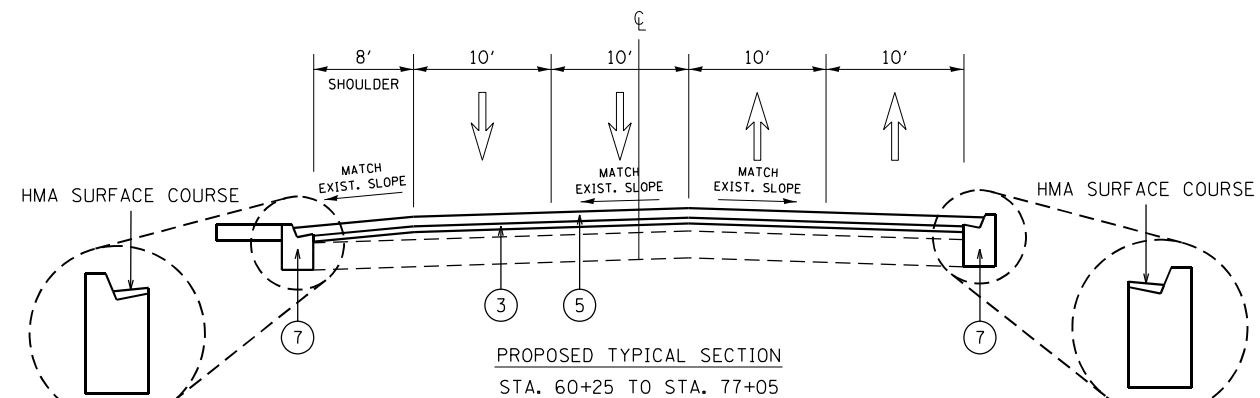
EXISTING TYPICAL SECTION

STA. 60+25 TO STA. 77+05

EXISTING HMA OVER GUTTER
VARIOUS LOCATIONS FROM:
STA. 60+25 TO STA. 61+49
STA. 62+82 TO STA. 70+53
STA. 71+10 TO STA. 77+00
NOTE: HMA REMOVAL OVER GUTTER PAID AS HMA SURFACE REMOVAL, VARIABLE DEPTH

EXISTING HMA OVER GUTTER
VARIOUS LOCATIONS FROM:
STA. 62+49 TO STA. 67+50
NOTE: HMA REMOVAL OVER GUTTER PAID AS HMA SURFACE REMOVAL, VARIABLE DEPTH

IL 137 (SHERIDAN RD)



PROPOSED TYPICAL SECTION

STA. 60+25 TO STA. 77+05

PROPOSED HMA OVER GUTTER
VARIOUS LOCATIONS FROM:
STA. 60+25 TO STA. 61+49
STA. 62+82 TO STA. 70+53
STA. 71+10 TO STA. 77+00
NOTE: HMA OVER GUTTER INCLUDED WITH APPROPRIATE SURFACE MIX

- PROPOSED LEGEND
- (1) HMA SURFACE REMOVAL, 2 1/2"
 - (2) HMA SURFACE REMOVAL, 3 3/4"
 - (3) POLYMERIZED HMA BINDER COURSE, IL-4.75, N50; 3/4"
 - (4) HMA BINDER COURSE, IL-9.5, N70; 2"
 - (5) HMA SURFACE COURSE, MIX "D", IL-9.5, N70; 1 3/4"
 - (6) POLYMERIZED HMA SURFACE COURSE, SMA, 9.5, MIX "F", N80; 1 3/4"
 - (7) COMB. CONCRETE CURB & GUTTER REMOVAL AND REPLACEMENT & P.C.C. SIDEWALK, 5" (LOCATIONS DETERMINED BY THE ENGINEER)

PROPOSED HMA OVER GUTTER
VARIOUS LOCATIONS FROM:
STA. 62+49 TO STA. 67+50
NOTE: HMA OVER GUTTER INCLUDED WITH APPROPRIATE SURFACE MIX

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		QUALITY MANAGEMENT PROGRAM (QMP)
MIXTURE TYPE	AIR VOIDS(%) @ Ndes	
PAVEMENT		
POLYMERIZED HMA BINDER COURSE, IL-4.75, N50; 3/4"	3.5% @ 50 GYR.	QCP
HMA BINDER COURSE, IL-9.5, N70; 2"	4% @ 70 GYR.	QCP
HMA SURFACE COURSE, MIX "D", IL-9.5, N70; 1 3/4"	4% @ 70 GYR.	PPF
POLYMERIZED HMA SURFACE COURSE, SMA, 9.5, MIX "F", N80; 1 3/4"	3.5% @ 80 GYR.	QCP
PATCHING		
CLASS D PATCH (HMA BINDER IL-19 mm)	4% @ 70 GYR.	QC/OA
HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR.	QC/OA
DRIVEWAYS		
HMA BASE COURSE (HMA BINDER IL-19 mm); PE - 6", CE - 8"	4% @ 50 GYR.	QC/OA
HMA SURFACE COURSE, MIX "D", IL-9.5, N50; 2"	4% @ 50 GYR.	QC/OA
TEMPORARY RAMP, SPECIAL		
HMA BINDER COURSE IL-9.5 N70	4% @ 70 GYR.	QC/OA
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/OA); QUALITY CONTROL FOR PERFORMANCE (QCP); PAY FOR PERFORMANCE (PPF)		

PORTLAND CEMENT CONCRETE BRIDGE RESURFACING OMISSION
STA. 39+21 TO STA. 42+30

PORTLAND CEMENT CONCRETE SEGMENTS FOR CLASS B PATCHING, CRACK ROUTING & FILLING
STA. 51+56 TO STA. 60+25
STA. 77+05 TO STA. 80+10

THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING

- NOTE 1: THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SO YD/IN.
- NOTE 2: THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76 -22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.
- NOTE 3: THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLY. HMA BC IL-4.75 AND OVER THE HMA BC IL-9.5.

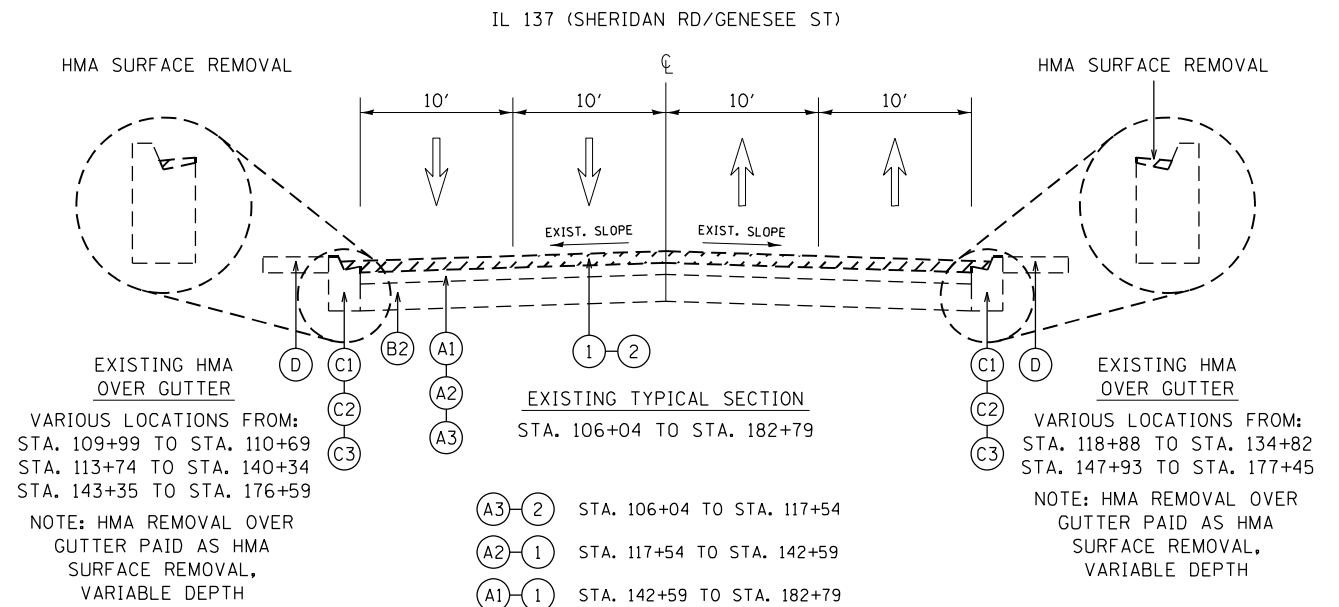
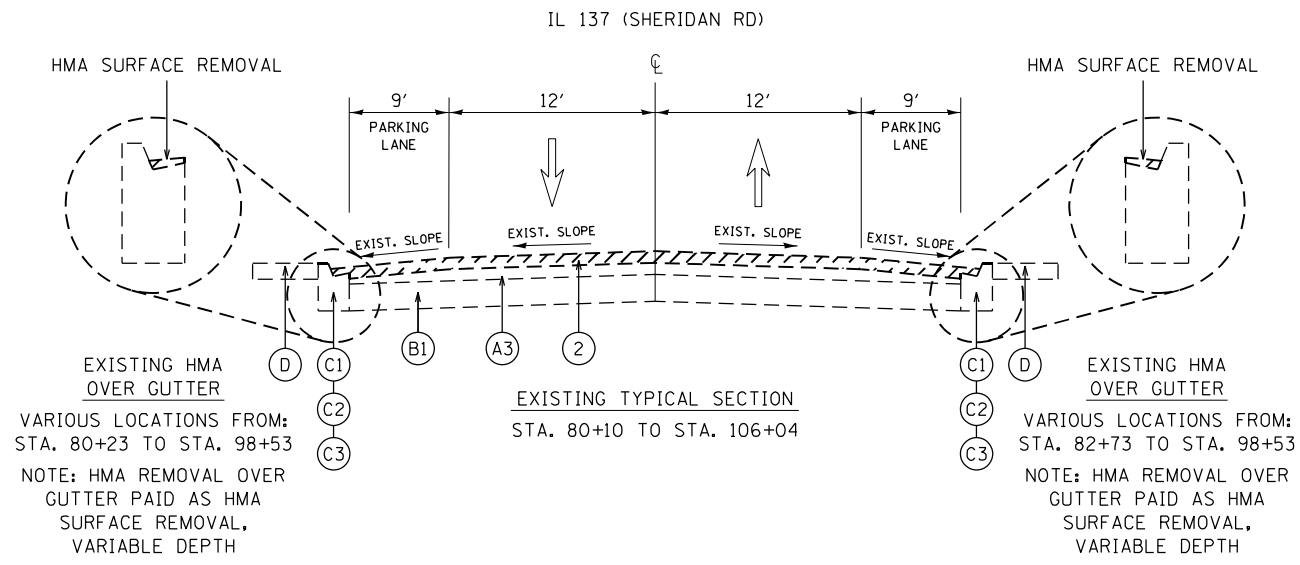
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS	
IL 137 (BELVIDERE RD TO BUCKLEY RD)	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2020-090-R5&SW	LAKE	68	10
CONTRACT NO. 62L68				
ILLINOIS FED. AID PROJECT				

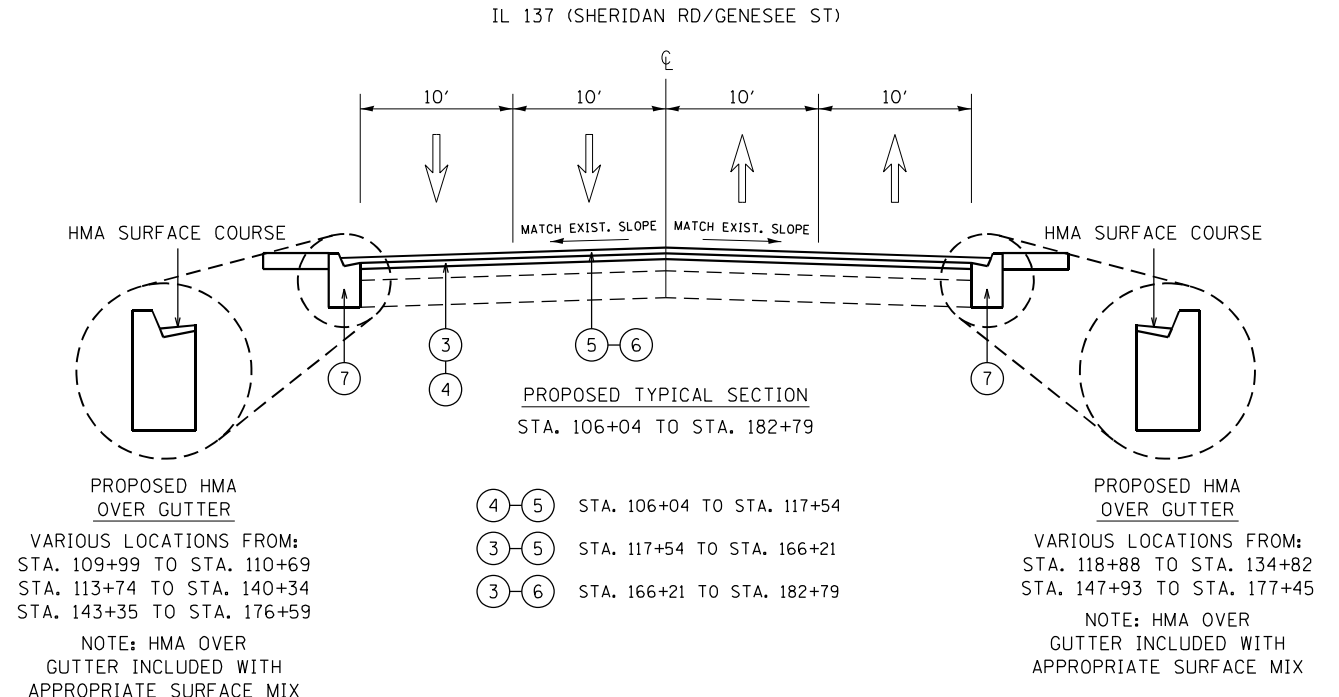
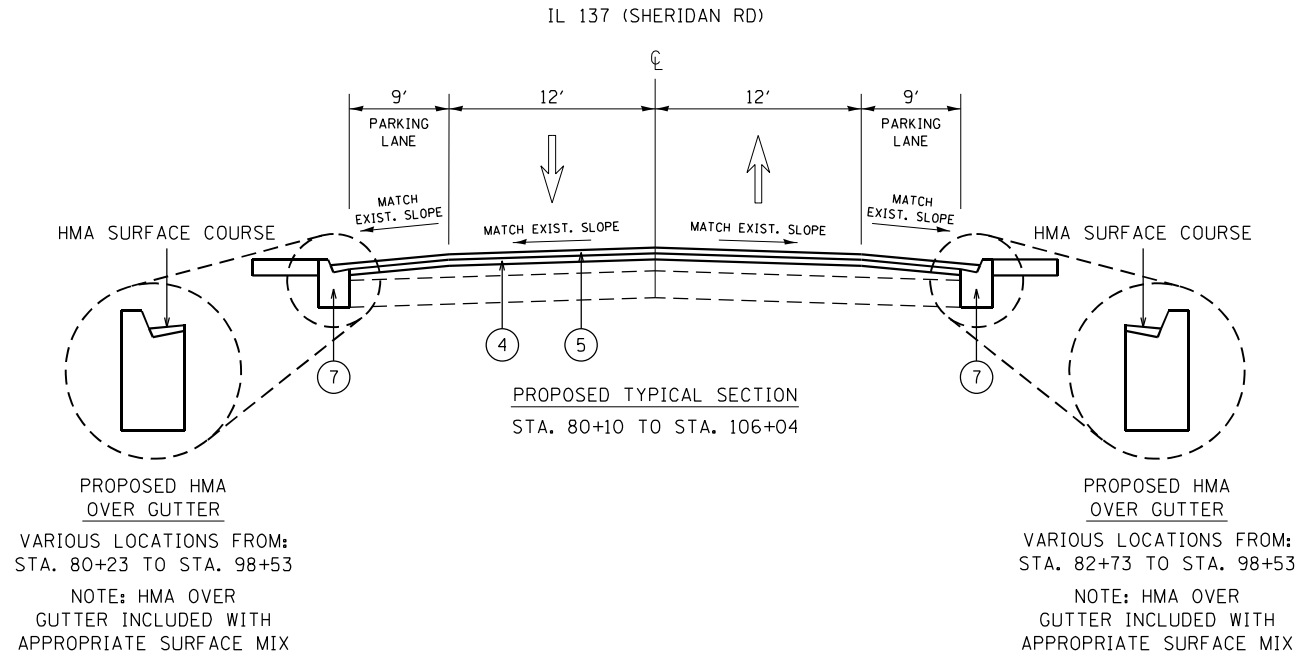


EXISTING LEGEND

- (A1) HOT-MIX ASPHALT, 2 1/2" & VARIES
- (A2) HOT-MIX ASPHALT, 3" & VARIES
- (A3) HOT-MIX ASPHALT, 4 3/4" & VARIES
- (A4) HOT-MIX ASPHALT, 14" & VARIES
- (A5) HOT-MIX ASPHALT, 14 1/2" & VARIES
- (A6) HMA SHOULDER, 10" & VARIES
- (B1) P.C.C. BASE COURSE, 8" & VARIES
- (B2) P.C.C. BASE COURSE, 10" & VARIES
- (C1) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (C2) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18
- (C3) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (C4) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.18
- (D) P.C.C. SIDEWALK, 5"
- (E) CONCRETE BARRIER

PROPOSED LEGEND

- (1) HMA SURFACE REMOVAL, 2 1/2"
- (2) HMA SURFACE REMOVAL, 3 3/4"
- (3) POLYMERIZED HMA BINDER COURSE, IL-4.75, N50; 3/4"
- (4) HMA BINDER COURSE, IL-9.5, N70; 2"
- (5) HMA SURFACE COURSE, MIX "D", IL-9.5, N70; 1 3/4"
- (6) POLYMERIZED HMA SURFACE COURSE, SMA, 9.5, MIX "F", N80; 1 3/4"
- (7) COMB. CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT & P.C.C. SIDEWALK, 5" (LOCATIONS DETERMINED BY THE ENGINEER)



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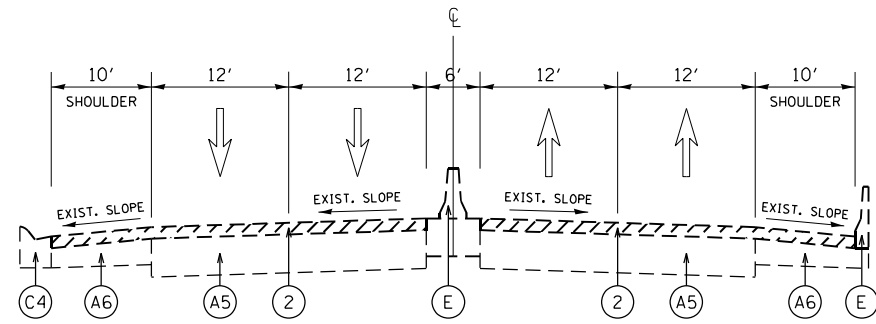
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DRAWN - AR	REVISIONS -	
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PLOT DATE = 2/7/2022	DATE - 2/4/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS	
IL 137 (BELVIDERE RD TO BUCKLEY RD)	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2020-090-R5&SW	LAKE	68	11
CONTRACT NO. 62L68				
ILLINOIS FED. AID PROJECT				

IL 137 (AMSTUTZ EXPY)

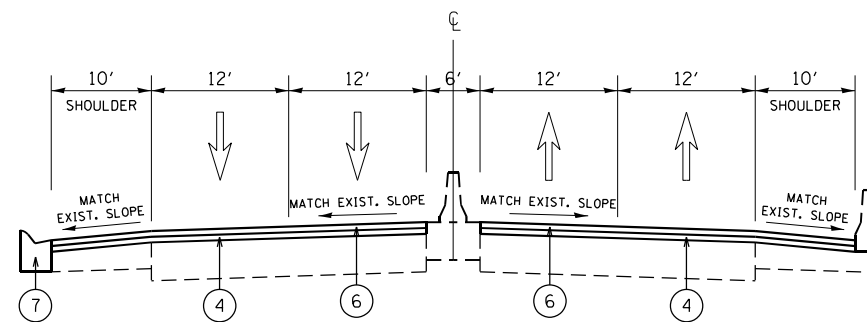


EXISTING TYPICAL SECTION
STA. 182+79 TO STA. 193+77

EXISTING LEGEND

- (A1) HOT-MIX ASPHALT, 2 1/2" & VARIES
- (A2) HOT-MIX ASPHALT, 3" & VARIES
- (A3) HOT-MIX ASPHALT, 4 3/4" & VARIES
- (A4) HOT-MIX ASPHALT, 14" & VARIES
- (A5) HOT-MIX ASPHALT, 14 1/2" & VARIES
- (A6) HMA SHOULDER, 10" & VARIES
- (B1) P.C.C. BASE COURSE, 8" & VARIES
- (B2) P.C.C. BASE COURSE, 10" & VARIES
- (C1) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (C2) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18
- (C3) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (C4) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.18
- (D) P.C.C. SIDEWALK, 5"
- (E) CONCRETE BARRIER

IL 137 (AMSTUTZ EXPY)



PROPOSED TYPICAL SECTION
STA. 182+79 TO STA. 193+77

PROPOSED LEGEND

- (1) HMA SURFACE REMOVAL, 2 1/2"
- (2) HMA SURFACE REMOVAL, 3 3/4"
- (3) POLYMERIZED HMA BINDER COURSE, IL-4.75, N50; 3/4"
- (4) HMA BINDER COURSE, IL-9.5, N70; 2"
- (5) HMA SURFACE COURSE, MIX "D", IL-9.5, N70; 1 3/4"
- (6) POLYMERIZED HMA SURFACE COURSE, SMA, 9.5, MIX "F", N80; 1 3/4"
- (7) COMB. CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT & P.C.C. SIDEWALK, 5" (LOCATIONS DETERMINED BY THE ENGINEER)

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PLOT DATE = 2/7/2022	DATE - 2/4/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
IL 137 (BELVIDERE RD TO BUCKLEY RD)

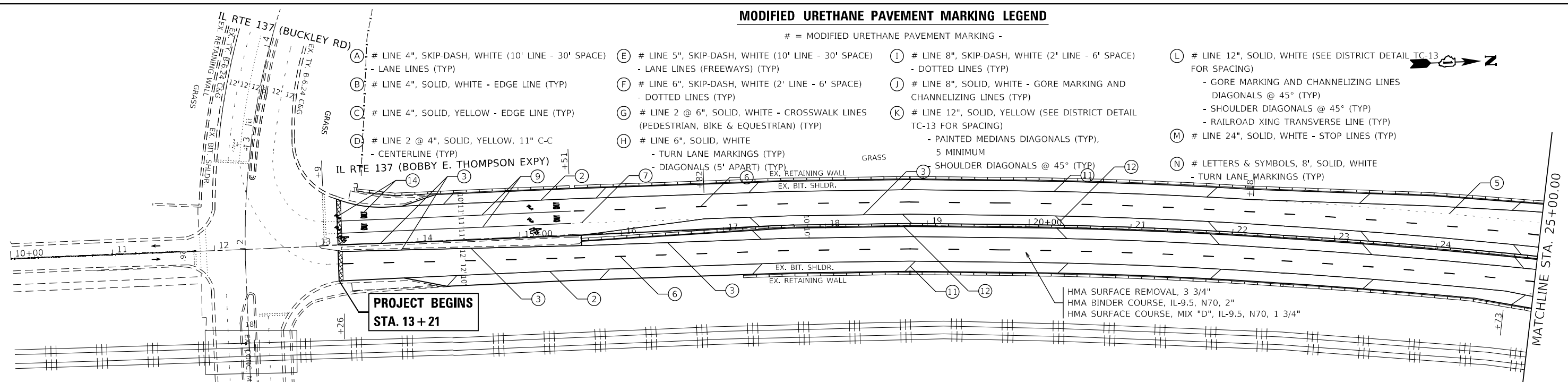
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2020-090-R5&SW	LAKE	68	12
CONTRACT NO. 62L68			ILLINOIS FED. AID PROJECT	

MODIFIED URETHANE PAVEMENT MARKING LEGEND

= MODIFIED URETHANE PAVEMENT MARKING -

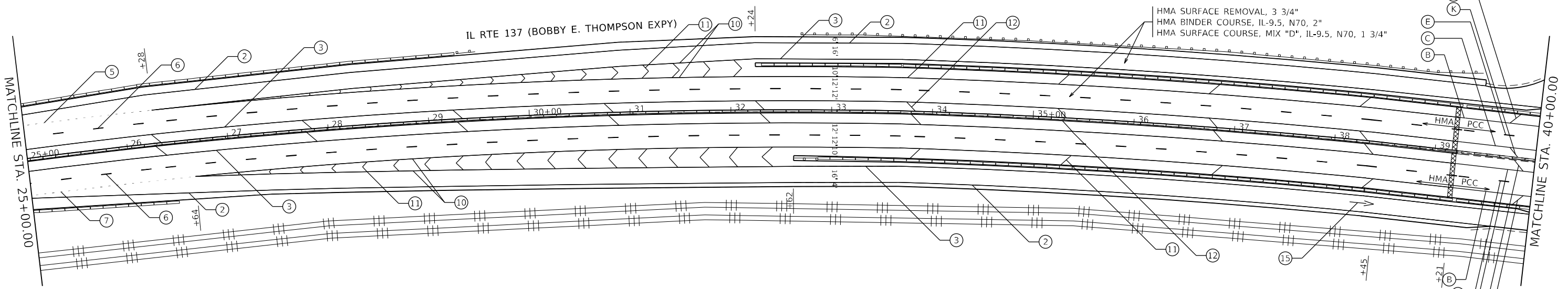
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|--|---|--|---|
| (A) # LINE 4", SKIP-DASH, WHITE (10' LINE - 30' SPACE)
- LANE LINES (TYP) | (E) # LINE 5", SKIP-DASH, WHITE (10' LINE - 30' SPACE)
- LANE LINES (FREEWAYS) (TYP) | (I) # LINE 8", SKIP-DASH, WHITE (2' LINE - 6' SPACE)
- DOTTED LINES (TYP) | (L) # LINE 12", SOLID, WHITE (SEE DISTRICT DETAIL TC-13 FOR SPACING)
- GORE MARKING AND CHANNELIZING LINES
DIAGONALS @ 45° (TYP)
- SHOULDER DIAGONALS @ 45° (TYP)
- RAILROAD XING TRANSVERSE LINE (TYP) |
| (B) # LINE 4", SOLID, WHITE - EDGE LINE (TYP) | (F) # LINE 6", SKIP-DASH, WHITE (2' LINE - 6' SPACE)
- DOTTED LINES (TYP) | (J) # LINE 8", SOLID, WHITE - GORE MARKING AND CHANNELIZING LINES (TYP) | (M) # LINE 24", SOLID, WHITE - STOP LINES (TYP) |
| (C) # LINE 4", SOLID, YELLOW - EDGE LINE (TYP) | (G) # LINE 2 @ 6", SOLID, WHITE - CROSSWALK LINES (PEDESTRIAN, BIKE & EQUESTRIAN) (TYP) | (K) # LINE 12", SOLID, YELLOW (SEE DISTRICT DETAIL TC-13 FOR SPACING)
- PAINTED MEDIANS DIAGONALS (TYP),
5 MINIMUM
- SHOULDER DIAGONALS @ 45° (TYP) | (N) # LETTERS & SYMBOLS, 8", SOLID, WHITE
- TURN LANE MARKINGS (TYP) |
| (D) # LINE 2 @ 4", SOLID, YELLOW, 11" C-C
- CENTERLINE (TYP) | (H) # LINE 6", SOLID, WHITE
- TURN LANE MARKINGS (TYP)
- DIAGONALS (5' APART) (TYP) | | |



THERMOPLASTIC PAVEMENT MARKING LEGEND

* = THERMOPLASTIC PAVEMENT MARKING -

- | | | | |
|--|---|---|---|
| (1) * LINE 4", SKIP-DASH, WHITE (10' LINE - 30' SPACE)
- LANE LINES (TYP) | (5) * LINE 4", SKIP-DASH, WHITE (2' LINE - 6' SPACE)
- DOTTED LINES (TYP) | (10) * LINE 8", SOLID, WHITE
- GORE MARKING AND CHANNELIZING LINES (TYP)
- BIKE LANE LINES (TYP) | (12) * LINE 12", SOLID, YELLOW (SEE DISTRICT DETAIL TC-13 FOR SPACING)
- PAINTED MEDIANS DIAGONALS (TYP),
5 MINIMUM
- SHOULDER DIAGONALS @ 45° (TYP) |
| (2) * LINE 4", SOLID, WHITE
- EDGE LINE (TYP)
- LINE 4", SOLID, WHITE, PARKING SPACES
"T" SHAPE (TYP) | (6) * LINE 5", SKIP-DASH, WHITE (10' LINE - 30' SPACE)
- LANE LINES (FREEWAYS) (TYP) | (11) * LINE 12", SOLID, WHITE (SEE DISTRICT DETAIL TC-13 FOR SPACING)
- GORE MARKING AND CHANNELIZING LINES
DIAGONALS @ 45° (TYP)
- SHOULDER DIAGONALS @ 45° (TYP)
- CROSSWALK DIAGONALS @ 45° (BIKE & EQUESTRIAN) (TYP)
- CROSSWALK LINES (CONTINENTAL / SCHOOL) (TYP.) | (13) * LINE 24", SOLID, WHITE - STOP LINES (TYP) |
| (3) * LINE 4", SOLID, YELLOW
- EDGE LINE (TYP)
- DIAGONALS (4' APART) (TYP) | (7) * LINE 6", SKIP-DASH, WHITE (2' LINE - 6' SPACE)
- DOTTED LINES (TYP) | | (14) * LETTERS & SYMBOLS, 8", SOLID, WHITE
- TURN LANE MARKINGS (TYP) |
| (4) * LINE 2 @ 4", SOLID, YELLOW, 11" C-C
- CENTERLINE (TYP) | (8) * LINE 2 @ 6", SOLID, WHITE - CROSSWALK LINES (PEDESTRIAN, BIKE & EQUESTRIAN) (TYP) | | (15) * LETTERS & SYMBOLS, WRONG WAY ARROW (SEE STATE STANDARD 780001 FOR DETAILS) |
| | (9) * LINE 6", SOLID, WHITE - TURN LANE MARKINGS (TYP) | | (16) * LETTERS & SYMBOLS, LANE REDUCTION ARROW (SEE STATE STANDARD 780001 FOR DETAILS) |



NOTES:

- 1) ALL FINAL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH TC-12 AND TC-13 DISTRICT ONE STANDARD DETAILS.
- 2) ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH TC-11 AND TC-12 DISTRICT ONE STANDARD DETAIL.

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DRAWN - AR, RR	REVISIONS -	
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PLOT DATE = 3/17/2022	DATE - 2/4/2022	REVISIONS -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY & PAVEMENT MARKING PLAN
IL 137 (BELVIDERE RD TO BUCKLEY RD)**

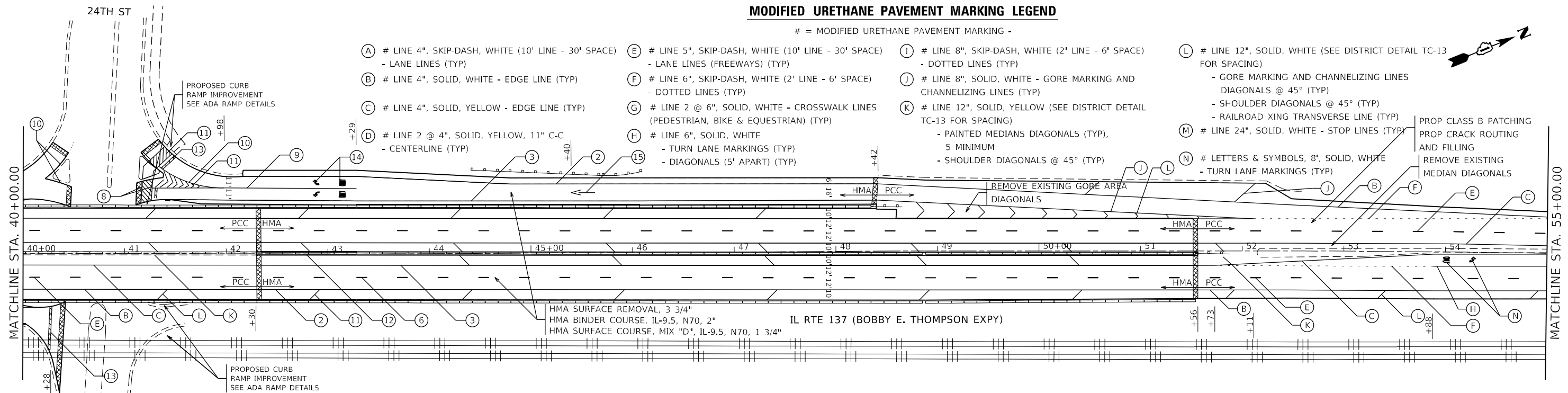
SCALE: 1"=50' SHEET 1 OF 7 SHEETS STA. 10+00.00 TO STA. 40+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2020-090-R5&SW	LAKE	68	13
CONTRACT NO. 62L68				
ILLINOIS FED. AID PROJECT				

MODIFIED URETHANE PAVEMENT MARKING LEGEND

= MODIFIED URETHANE PAVEMENT MARKING -

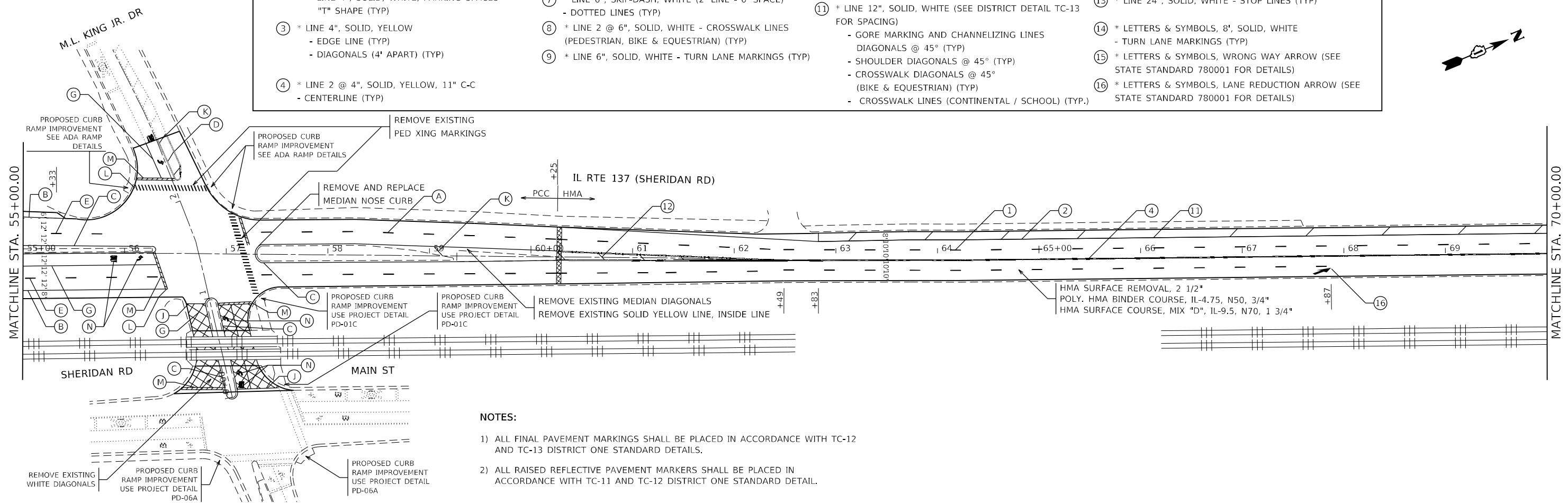
- | | | | |
|--|---|--|--|
| (A) # LINE 4", SKIP-DASH, WHITE (10' LINE - 30' SPACE)
- LANE LINES (TYP) | (E) # LINE 5", SKIP-DASH, WHITE (10' LINE - 30' SPACE)
- LANE LINES (FREEWAYS) (TYP) | (I) # LINE 8", SKIP-DASH, WHITE (2' LINE - 6' SPACE)
- DOTTED LINES (TYP) | (L) # LINE 12", SOLID, WHITE (SEE DISTRICT DETAIL TC-13 FOR SPACING)
- GORE MARKING AND CHANNELIZING LINES
DIAGONALS @ 45° (TYP) |
| (B) # LINE 4", SOLID, WHITE - EDGE LINE (TYP) | (F) # LINE 6", SKIP-DASH, WHITE (2' LINE - 6' SPACE)
- DOTTED LINES (TYP) | (J) # LINE 8", SOLID, WHITE - GORE MARKING AND CHANNELIZING LINES (TYP) | - SHOULDER DIAGONALS @ 45° (TYP) |
| (C) # LINE 4", SOLID, YELLOW - EDGE LINE (TYP) | (G) # LINE 2 @ 6", SOLID, WHITE - CROSSWALK LINES (PEDESTRIAN, BIKE & EQUESTRIAN) (TYP) | (K) # LINE 12", SOLID, YELLOW (SEE DISTRICT DETAIL TC-13 FOR SPACING)
- PAINTED MEDIANS DIAGONALS (TYP),
5 MINIMUM
- SHOULDER DIAGONALS @ 45° (TYP) | (M) # LINE 24", SOLID, WHITE - STOP LINES (TYP) |
| (D) # LINE 2 @ 4", SOLID, YELLOW, 11" C-C
- CENTERLINE (TYP) | (H) # LINE 6", SOLID, WHITE
- TURN LANE MARKINGS (TYP)
- DIAGONALS (5' APART) (TYP) | | (N) # LETTERS & SYMBOLS, 8", SOLID, WHITE
- TURN LANE MARKINGS (TYP) |



THERMOPLASTIC PAVEMENT MARKING LEGEND

* = THERMOPLASTIC PAVEMENT MARKING -

- | | | | |
|--|---|--|---|
| (1) * LINE 4", SKIP-DASH, WHITE (10' LINE - 30' SPACE)
- LANE LINES (TYP) | (5) * LINE 4", SKIP-DASH, WHITE (2' LINE - 6' SPACE)
- DOTTED LINES (TYP) | (10) * LINE 8", SOLID, WHITE
- GORE MARKING AND CHANNELIZING LINES (TYP)
- BIKE LANE LINES (TYP) | (12) * LINE 12", SOLID, YELLOW (SEE DISTRICT DETAIL TC-13 FOR SPACING)
- PAINTED MEDIANS DIAGONALS (TYP),
5 MINIMUM
- SHOULDER DIAGONALS @ 45° (TYP) |
| (2) * LINE 4", SOLID, WHITE
- EDGE LINE (TYP)
- LINE 4", SOLID, WHITE, PARKING SPACES
"T" SHAPE (TYP) | (6) * LINE 5", SKIP-DASH, WHITE (10' LINE - 30' SPACE)
- LANE LINES (FREEWAYS) (TYP) | (11) * LINE 12", SOLID, WHITE (SEE DISTRICT DETAIL TC-13 FOR SPACING)
- GORE MARKING AND CHANNELIZING LINES
DIAGONALS @ 45° (TYP)
- SHOULDER DIAGONALS @ 45° (TYP)
- CROSSWALK DIAGONALS @ 45°
(BIKE & EQUESTRIAN) (TYP)
- CROSSWALK LINES (CONTINENTAL / SCHOOL) (TYP.) | (13) * LINE 24", SOLID, WHITE - STOP LINES (TYP) |
| (3) * LINE 4", SOLID, YELLOW
- EDGE LINE (TYP)
- DIAGONALS (4' APART) (TYP) | (7) * LINE 6", SKIP-DASH, WHITE (2' LINE - 6' SPACE)
- DOTTED LINES (TYP) | | (14) * LETTERS & SYMBOLS, 8", SOLID, WHITE
- TURN LANE MARKINGS (TYP) |
| (4) * LINE 2 @ 4", SOLID, YELLOW, 11" C-C
- CENTERLINE (TYP) | (8) * LINE 2 @ 6", SOLID, WHITE - CROSSWALK LINES (PEDESTRIAN, BIKE & EQUESTRIAN) (TYP) | | (15) * LETTERS & SYMBOLS, WRONG WAY ARROW (SEE STATE STANDARD 780001 FOR DETAILS) |
| | (9) * LINE 6", SOLID, WHITE - TURN LANE MARKINGS (TYP) | | (16) * LETTERS & SYMBOLS, LANE REDUCTION ARROW (SEE STATE STANDARD 780001 FOR DETAILS) |



NOTES:

- ALL FINAL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH TC-12 AND TC-13 DISTRICT ONE STANDARD DETAILS.
- ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH TC-11 AND TC-12 DISTRICT ONE STANDARD DETAIL.

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY & PAVEMENT MARKING PLAN
IL 137 (BELVIDERE RD TO BUCKLEY RD)**

SCALE: 1"=50' SHEET 2 OF 7 SHEETS STA. 40+00.00 TO STA. 70+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2020-090-R5&SW	LAKE	68	14
CONTRACT NO. 62L68				
ILLINOIS FED. AID PROJECT				

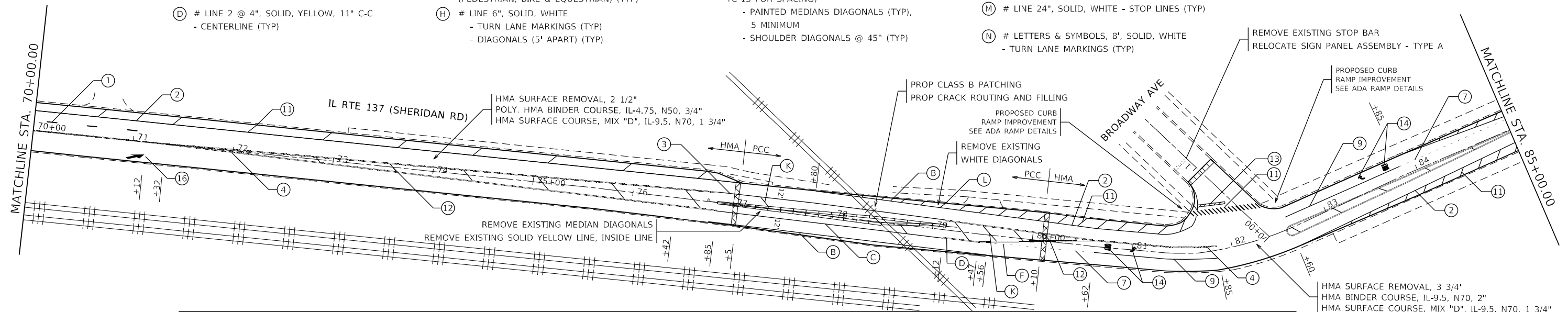
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PLOT SCALE = 100,0000' / in.	DRAWN - AR, RR	REVISED -
PLOT DATE = 3/17/2022	CHECKED - LP	REVISED -
	DATE - 2/4/2022	REVISED -

MODIFIED URETHANE PAVEMENT MARKING LEGEND

= MODIFIED URETHANE PAVEMENT MARKING -

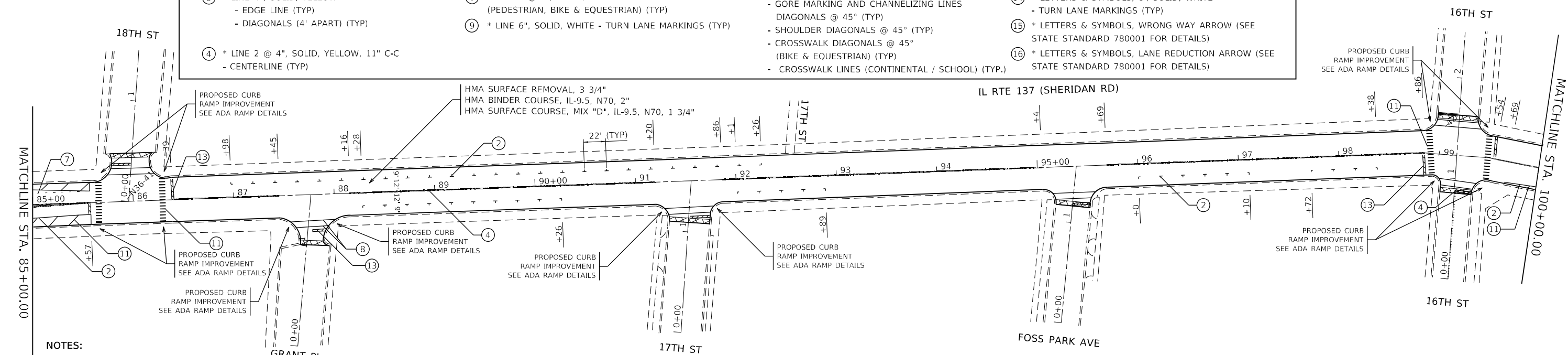
- | | | | |
|--|--|---|--|
| (A) # LINE 4", SKIP-DASH, WHITE (10' LINE - 30' SPACE)
- LANE LINES (TYP) | (E) # LINE 5", SKIP-DASH, WHITE (10' LINE - 30' SPACE)
- LANE LINES (FREEWAYS) (TYP) | (I) # LINE 8", SKIP-DASH, WHITE (2' LINE - 6' SPACE)
- DOTTED LINES (TYP) | (L) # LINE 12", SOLID, WHITE (SEE DISTRICT DETAIL TC-13
FOR SPACING)
- GORE MARKING AND CHANNELIZING LINES
DIAGONALS @ 45° (TYP)
- SHOULDER DIAGONALS @ 45° (TYP)
- RAILROAD XING TRANSVERSE LINE (TYP) |
| (B) # LINE 4", SOLID, WHITE - EDGE LINE (TYP) | (F) # LINE 6", SKIP-DASH, WHITE (2' LINE - 6' SPACE)
- DOTTED LINES (TYP) | (J) # LINE 8", SOLID, WHITE - GORE MARKING AND
CHANNELIZING LINES (TYP) | (M) # LINE 24", SOLID, WHITE - STOP LINES (TYP) |
| (C) # LINE 4", SOLID, YELLOW - EDGE LINE (TYP) | (G) # LINE 2 @ 6", SOLID, WHITE - CROSSWALK LINES
(PEDESTRIAN, BIKE & EQUESTRIAN) (TYP) | (K) # LINE 12", SOLID, YELLOW (SEE DISTRICT DETAIL
TC-13 FOR SPACING)
- PAINTED MEDIANS DIAGONALS (TYP),
5 MINIMUM
- SHOULDER DIAGONALS @ 45° (TYP) | (N) # LETTERS & SYMBOLS, 8", SOLID, WHITE
- TURN LANE MARKINGS (TYP) |
| (D) # LINE 2 @ 4", SOLID, YELLOW, 11" C-C
- CENTERLINE (TYP) | (H) # LINE 6", SOLID, WHITE
- TURN LANE MARKINGS (TYP)
- DIAGONALS (5' APART) (TYP) | | |



THERMOPLASTIC PAVEMENT MARKING LEGEND

* = THERMOPLASTIC PAVEMENT MARKING -

- | | | | |
|--|--|---|--|
| (1) * LINE 4", SKIP-DASH, WHITE (10' LINE - 30' SPACE)
- LANE LINES (TYP) | (5) * LINE 4", SKIP-DASH, WHITE (2' LINE - 6' SPACE)
- DOTTED LINES (TYP) | (10) * LINE 8", SOLID, WHITE
- GORE MARKING AND
CHANNELIZING LINES (TYP)
- BIKE LANE LINES (TYP) | (12) * LINE 12", SOLID, YELLOW (SEE DISTRICT DETAIL
TC-13 FOR SPACING)
- PAINTED MEDIANS DIAGONALS (TYP),
5 MINIMUM
- SHOULDER DIAGONALS @ 45° (TYP) |
| (2) * LINE 4", SOLID, WHITE
- EDGE LINE (TYP)
- LINE 4", SOLID, WHITE, PARKING SPACES
"T" SHAPE (TYP) | (6) * LINE 5", SKIP-DASH, WHITE (10' LINE - 30' SPACE)
- LANE LINES (FREEWAYS) (TYP) | (11) * LINE 12", SOLID, WHITE (SEE DISTRICT DETAIL TC-13
FOR SPACING)
- GORE MARKING AND CHANNELIZING LINES
DIAGONALS @ 45° (TYP)
- SHOULDER DIAGONALS @ 45° (TYP)
- CROSSWALK DIAGONALS @ 45°
(BIKE & EQUESTRIAN) (TYP)
- CROSSWALK LINES (CONTINENTAL / SCHOOL) (TYP.) | (13) * LINE 24", SOLID, WHITE - STOP LINES (TYP) |
| (3) * LINE 4", SOLID, YELLOW
- EDGE LINE (TYP)
- DIAGONALS (4' APART) (TYP) | (7) * LINE 6", SKIP-DASH, WHITE (2' LINE - 6' SPACE)
- DOTTED LINES (TYP) | | (14) * LETTERS & SYMBOLS, 8", SOLID, WHITE
- TURN LANE MARKINGS (TYP) |
| (4) * LINE 2 @ 4", SOLID, YELLOW, 11" C-C
- CENTERLINE (TYP) | (8) * LINE 2 @ 6", SOLID, WHITE - CROSSWALK LINES
(PEDESTRIAN, BIKE & EQUESTRIAN) (TYP) | | (15) * LETTERS & SYMBOLS, WRONG WAY ARROW (SEE
STATE STANDARD 780001 FOR DETAILS) |
| | (9) * LINE 6", SOLID, WHITE - TURN LANE MARKINGS (TYP) | | (16) * LETTERS & SYMBOLS, LANE REDUCTION ARROW (SEE
STATE STANDARD 780001 FOR DETAILS) |



NOTES:

- 1) ALL FINAL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH TC-12 AND TC-13 DISTRICT ONE STANDARD DETAILS.
- 2) ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH TC-11 AND TC-12 DISTRICT ONE STANDARD DETAIL.

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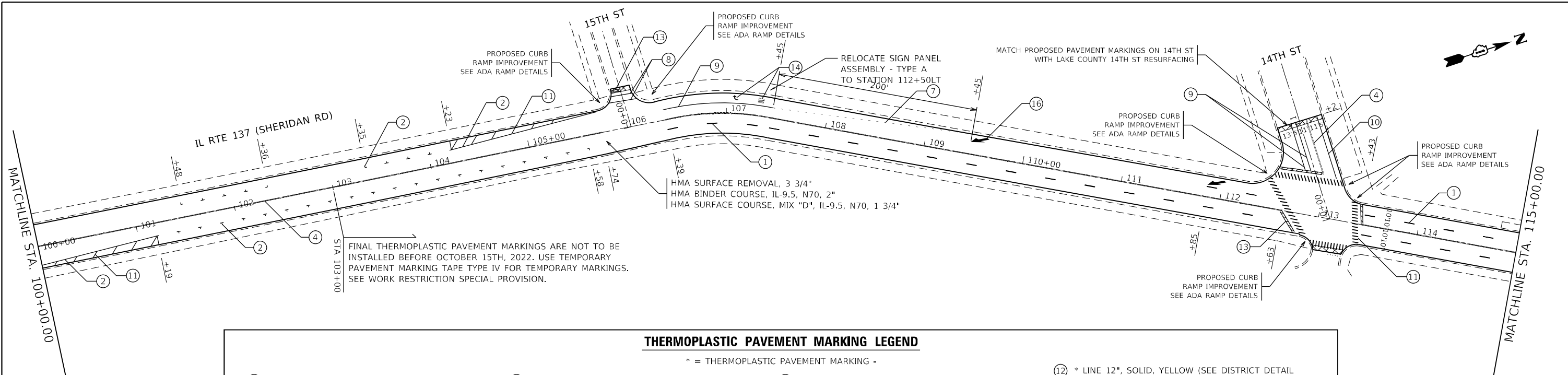
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DRAWN - AR, RR	REVISIONS -	
PLOT SCALE = 100,0000' / in.	CHECKED - LP	REVISIONS -
PLOT DATE = 3/17/2022	DATE - 2/4/2022	REVISIONS -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY & PAVEMENT MARKING PLAN
IL 137 (BELVIDERE RD TO BUCKLEY RD)**

SCALE: 1"=50' SHEET 3 OF 7 SHEETS STA. 70+00.00 TO STA. 100+00.00

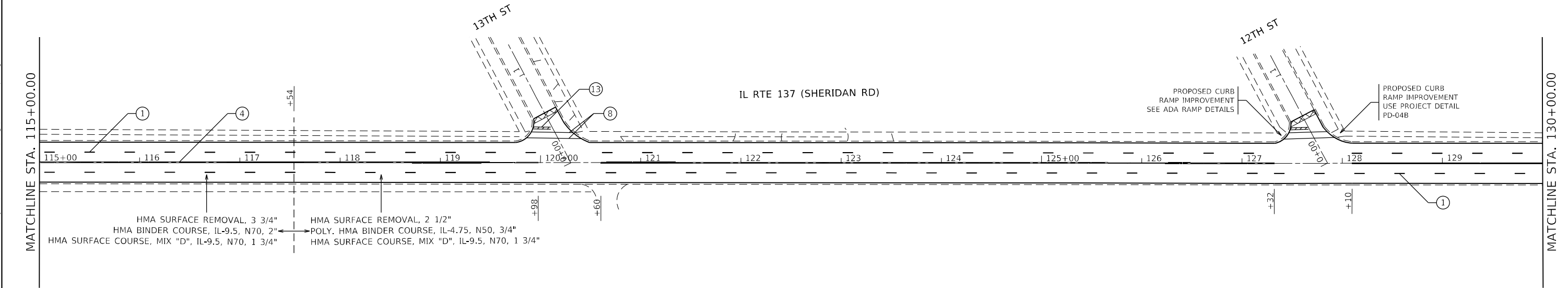
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2020-090-R5&SW	LAKE	68	15
CONTRACT NO. 62L68				
ILLINOIS FED. AID PROJECT				



THERMOPLASTIC PAVEMENT MARKING LEGEND

* = THERMOPLASTIC PAVEMENT MARKING -

<p>① * LINE 4", SKIP-DASH, WHITE (10' LINE - 30' SPACE) - LANE LINES (TYP)</p> <p>② * LINE 4", SOLID, WHITE - EDGE LINE (TYP) - LINE 4", SOLID, WHITE, PARKING SPACES "T" SHAPE (TYP)</p> <p>③ * LINE 4", SOLID, YELLOW - EDGE LINE (TYP) - DIAGONALS (4' APART) (TYP)</p> <p>④ * LINE 2 @ 4", SOLID, YELLOW, 11" C-C - CENTERLINE (TYP)</p>	<p>⑤ * LINE 4", SKIP-DASH, WHITE (2' LINE - 6' SPACE) - DOTTED LINES (TYP)</p> <p>⑥ * LINE 5", SKIP-DASH, WHITE (10' LINE - 30' SPACE) - LANE LINES (FREEWAYS) (TYP)</p> <p>⑦ * LINE 6", SKIP-DASH, WHITE (2' LINE - 6' SPACE) - DOTTED LINES (TYP)</p> <p>⑧ * LINE 2 @ 6", SOLID, WHITE - CROSSWALK LINES (PEDESTRIAN, BIKE & EQUESTRIAN) (TYP)</p> <p>⑨ * LINE 6", SOLID, WHITE - TURN LANE MARKINGS (TYP)</p>	<p>⑩ * LINE 8", SOLID, WHITE - GORE MARKING AND CHANNELIZING LINES (TYP) - BIKE LANE LINES (TYP)</p> <p>⑪ * LINE 12", SOLID, WHITE (SEE DISTRICT DETAIL TC-13 FOR SPACING) - GORE MARKING AND CHANNELIZING LINES DIAGONALS @ 45° (TYP) - SHOULDER DIAGONALS @ 45° (TYP) - CROSSWALK DIAGONALS @ 45° (BIKE & EQUESTRIAN) (TYP) - CROSSWALK LINES (CONTINENTAL / SCHOOL) (TYP).</p> <p>⑫ * LINE 12", SOLID, YELLOW (SEE DISTRICT DETAIL TC-13 FOR SPACING) - PAINTED MEDIANS DIAGONALS (TYP), 5 MINIMUM - SHOULDER DIAGONALS @ 45° (TYP)</p> <p>⑬ * LINE 24", SOLID, WHITE - STOP LINES (TYP)</p> <p>⑭ * LETTERS & SYMBOLS, 8', SOLID, WHITE - TURN LANE MARKINGS (TYP)</p> <p>⑮ * LETTERS & SYMBOLS, WRONG WAY ARROW (SEE STATE STANDARD 780001 FOR DETAILS)</p> <p>⑯ * LETTERS & SYMBOLS, LANE REDUCTION ARROW (SEE STATE STANDARD 780001 FOR DETAILS)</p>
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- NOTES:**
- 1) ALL FINAL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH TC-12 AND TC-13 DISTRICT ONE STANDARD DETAILS.
 - 2) ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH TC-11 AND TC-12 DISTRICT ONE STANDARD DETAIL.

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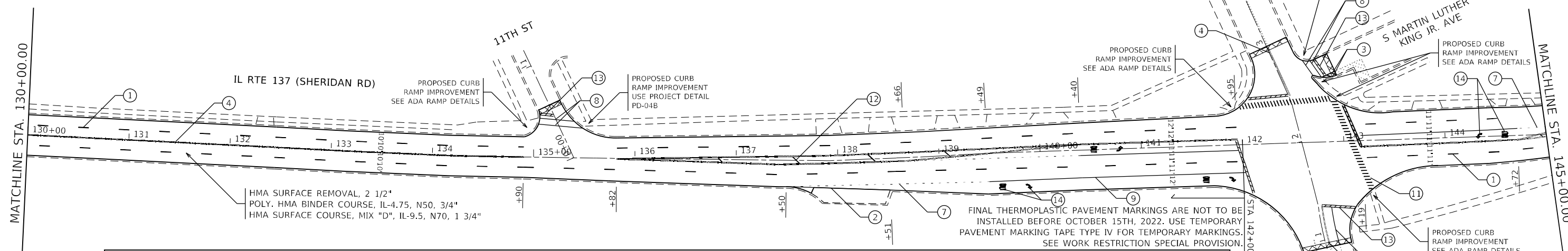
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY & PAVEMENT MARKING PLAN
IL 137 (BELVIDERE RD TO BUCKLEY RD)**

SCALE: 1"=50' SHEET 4 OF 7 SHEETS STA. 100+00.00 TO STA. 130+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2020-090-R5&SW	LAKE	68	16
				CONTRACT NO. 62L68
ILLINOIS FED. AID PROJECT				

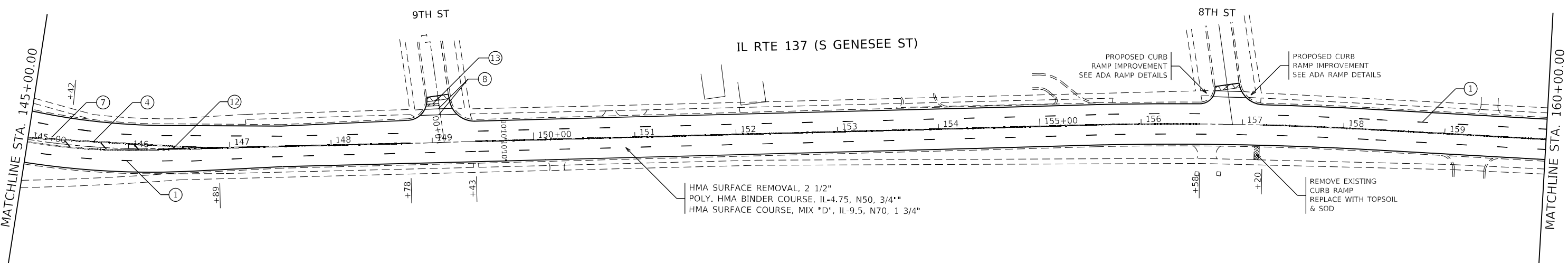


THERMOPLASTIC PAVEMENT MARKING LEGEND

* = THERMOPLASTIC PAVEMENT MARKING -

- | | | | |
|--|--|---|--|
| <p>① * LINE 4", SKIP-DASH, WHITE (10' LINE - 30' SPACE)
- LANE LINES (TYP)</p> <p>② * LINE 4", SOLID, WHITE
- EDGE LINE (TYP)
- LINE 4", SOLID, WHITE, PARKING SPACES
"T" SHAPE (TYP)</p> <p>③ * LINE 4", SOLID, YELLOW
- EDGE LINE (TYP)
- DIAGONALS (4' APART) (TYP)</p> <p>④ * LINE 2 @ 4", SOLID, YELLOW, 11" C-C
- CENTERLINE (TYP)</p> | <p>⑤ * LINE 4", SKIP-DASH, WHITE (2' LINE - 6' SPACE)
- DOTTED LINES (TYP)</p> <p>⑥ * LINE 5", SKIP-DASH, WHITE (10' LINE - 30' SPACE)
- LANE LINES (FREEWAYS) (TYP)</p> <p>⑦ * LINE 6", SKIP-DASH, WHITE (2' LINE - 6' SPACE)
- DOTTED LINES (TYP)</p> <p>⑧ * LINE 2 @ 6", SOLID, WHITE - CROSSWALK LINES
(PEDESTRIAN, BIKE & EQUESTRIAN) (TYP)</p> <p>⑨ * LINE 6", SOLID, WHITE - TURN LANE MARKINGS (TYP)</p> | <p>⑩ * LINE 8", SOLID, WHITE
- GORE MARKING AND
CHANNELIZING LINES (TYP)
- BIKE LANE LINES (TYP)</p> <p>⑪ * LINE 12", SOLID, WHITE (SEE DISTRICT DETAIL TC-13
FOR SPACING)
- GORE MARKING AND CHANNELIZING LINES
DIAGONALS @ 45° (TYP)
- SHOULDER DIAGONALS @ 45° (TYP)
- CROSSWALK DIAGONALS @ 45°
(BIKE & EQUESTRIAN) (TYP)
- CROSSWALK LINES (CONTINENTAL / SCHOOL) (TYP.)</p> | <p>⑫ * LINE 12", SOLID, YELLOW (SEE DISTRICT DETAIL
TC-13 FOR SPACING)
- PAINTED MEDIANS DIAGONALS (TYP),
5 MINIMUM
- SHOULDER DIAGONALS @ 45° (TYP)</p> <p>⑬ * LINE 24", SOLID, WHITE - STOP LINES (TYP)</p> <p>⑭ * LETTERS & SYMBOLS, 8", SOLID, WHITE
- TURN LANE MARKINGS (TYP)</p> <p>⑮ * LETTERS & SYMBOLS, WRONG WAY ARROW (SEE
STATE STANDARD 780001 FOR DETAILS)</p> <p>⑯ * LETTERS & SYMBOLS, LANE REDUCTION ARROW (SEE
STATE STANDARD 780001 FOR DETAILS)</p> |
|--|--|---|--|

FINAL THERMOPLASTIC PAVEMENT MARKINGS ARE NOT TO BE INSTALLED BEFORE OCTOBER 15TH, 2022. USE TEMPORARY PAVEMENT MARKING TAPE TYPE IV FOR TEMPORARY MARKINGS. SEE WORK RESTRICTION SPECIAL PROVISION.



- NOTES:**
- ALL FINAL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH TC-12 AND TC-13 DISTRICT ONE STANDARD DETAILS.
 - ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH TC-11 AND TC-12 DISTRICT ONE STANDARD DETAIL.

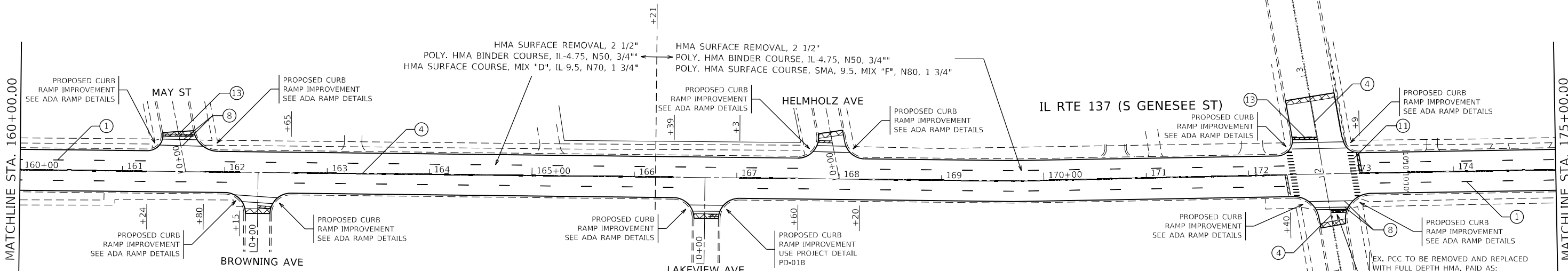
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PLOT DATE = 3/17/2022	DATE - 2/4/2022	REVISOR -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY & PAVEMENT MARKING PLAN		F.A.P. RTE. 352	SECTION 2020-090-R5&SW	COUNTY LAKE	TOTAL SHEETS 68	SHEET NO. 17
SCALE: 1"=50'		SHEET 5 OF 7 SHEETS		STA. 130+00.00 TO STA. 160+00.00		

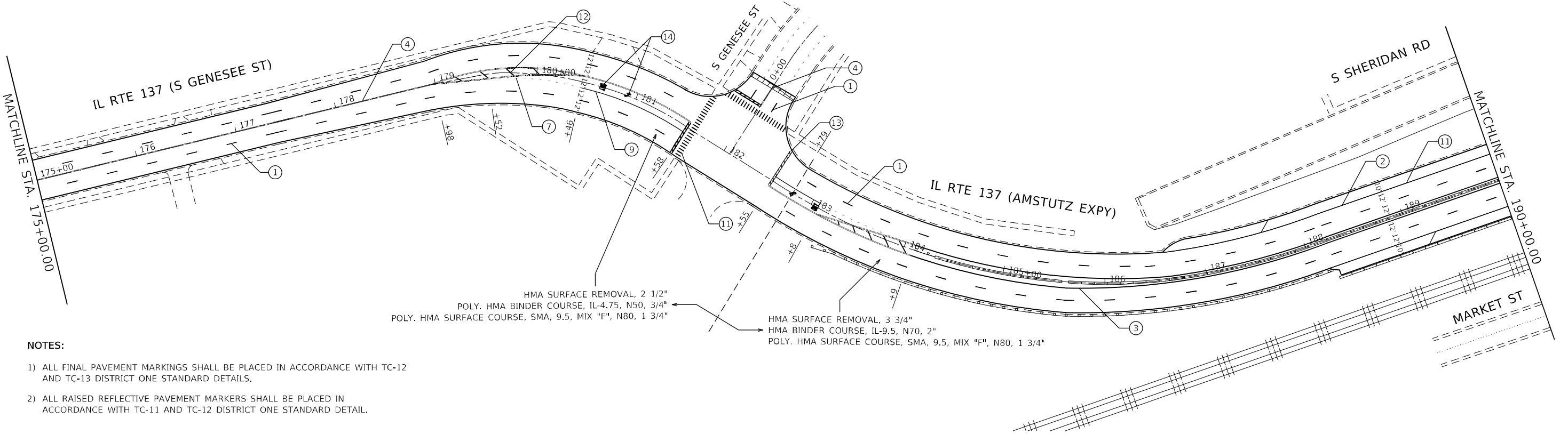
CONTRACT NO. 62L68			
ILLINOIS FED. AID PROJECT			



THERMOPLASTIC PAVEMENT MARKING LEGEND

* = THERMOPLASTIC PAVEMENT MARKING -

- | | | | |
|---|---|--|---|
| ① * LINE 4", SKIP-DASH, WHITE (10' LINE - 30' SPACE)
- LANE LINES (TYP) | ⑤ * LINE 4", SKIP-DASH, WHITE (2' LINE - 6' SPACE)
- DOTTED LINES (TYP) | ⑩ * LINE 8", SOLID, WHITE
- GORE MARKING AND CHANNELIZING LINES (TYP)
- BIKE LANE LINES (TYP) | ⑬ * LINE 24", SOLID, WHITE - STOP LINES (TYP) |
| ② * LINE 4", SOLID, WHITE
- EDGE LINE (TYP)
- LINE 4", SOLID, WHITE, PARKING SPACES "T" SHAPE (TYP) | ⑥ * LINE 5", SKIP-DASH, WHITE (10' LINE - 30' SPACE)
- LANE LINES (FREEWAYS) (TYP) | ⑪ * LINE 12", SOLID, WHITE (SEE DISTRICT DETAIL TC-13 FOR SPACING)
- GORE MARKING AND CHANNELIZING LINES
- DIAGONALS @ 45° (TYP)
- SHOULDER DIAGONALS @ 45° (TYP)
- CROSSWALK DIAGONALS @ 45° (BIKE & EQUESTRIAN) (TYP)
- CROSSWALK LINES (CONTINENTAL / SCHOOL) (TYP.) | ⑭ * LETTERS & SYMBOLS, 8', SOLID, WHITE
- TURN LANE MARKINGS (TYP) |
| ③ * LINE 4", SOLID, YELLOW
- EDGE LINE (TYP)
- DIAGONALS (4' APART) (TYP) | ⑦ * LINE 6", SKIP-DASH, WHITE (2' LINE - 6' SPACE)
- DOTTED LINES (TYP) | ⑫ * LINE 12", SOLID, YELLOW (SEE DISTRICT DETAIL TC-13 FOR SPACING)
- PAINTED MEDIANS DIAGONALS (TYP), 5 MINIMUM
- SHOULDER DIAGONALS @ 45° (TYP) | ⑮ * LETTERS & SYMBOLS, WRONG WAY ARROW (SEE STATE STANDARD 780001 FOR DETAILS) |
| ④ * LINE 2 @ 4", SOLID, YELLOW, 11" C-C
- CENTERLINE (TYP) | ⑧ * LINE 2 @ 6", SOLID, WHITE - CROSSWALK LINES (PEDESTRIAN, BIKE & EQUESTRIAN) (TYP) | ⑬ * LINE 24", SOLID, WHITE - STOP LINES (TYP) | ⑯ * LETTERS & SYMBOLS, LANE REDUCTION ARROW (SEE STATE STANDARD 780001 FOR DETAILS) |



- NOTES:**
- 1) ALL FINAL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH TC-12 AND TC-13 DISTRICT ONE STANDARD DETAILS.
 - 2) ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH TC-11 AND TC-12 DISTRICT ONE STANDARD DETAIL.

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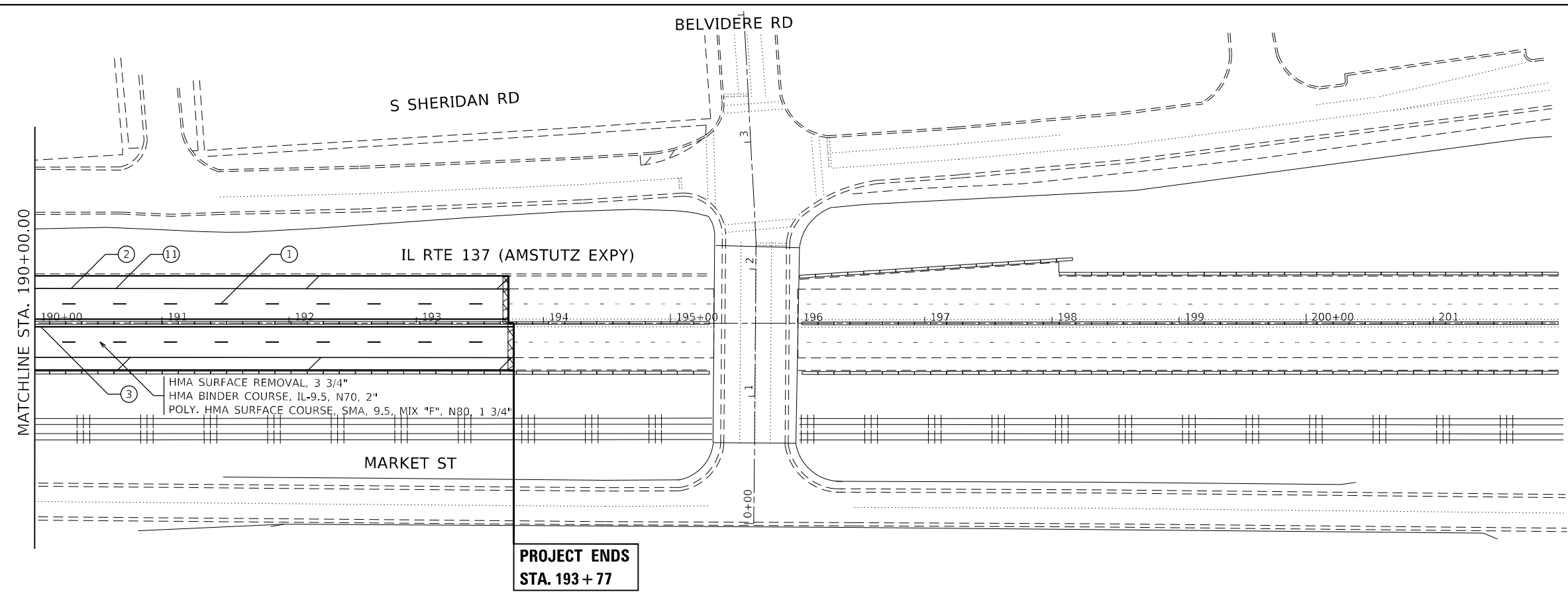
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY & PAVEMENT MARKING PLAN
IL 137 (BELVIDERE RD TO BUCKLEY RD)**

SCALE: 1"=50' SHEET 6 OF 7 SHEETS STA. 160+00.00 TO STA. 190+00.00

F.A.P. RTE. 352	SECTION 2020-090-R5&SW	COUNTY LAKE	TOTAL SHEETS 68	SHEET NO. 18
CONTRACT NO. 62L68				
ILLINOIS FED. AID PROJECT				

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**PROJECT ENDS
STA. 193 + 77**

THERMOPLASTIC PAVEMENT MARKING LEGEND

* = THERMOPLASTIC PAVEMENT MARKING -

- ① * LINE 4", SKIP-DASH, WHITE (10' LINE - 30' SPACE)
- LANE LINES (TYP)
- ② * LINE 4", SOLID, WHITE
- EDGE LINE (TYP)
- LINE 4", SOLID, WHITE, PARKING SPACES
"T" SHAPE (TYP)
- ③ * LINE 4", SOLID, YELLOW
- EDGE LINE (TYP)
- DIAGONALS (4' APART) (TYP)
- ④ * LINE 2 @ 4", SOLID, YELLOW, 11" C-C
- CENTERLINE (TYP)
- ⑤ * LINE 4", SKIP-DASH, WHITE (2' LINE - 6' SPACE)
- DOTTED LINES (TYP)
- ⑥ * LINE 5", SKIP-DASH, WHITE (10' LINE - 30' SPACE)
- LANE LINES (FREEWAYS) (TYP)
- ⑦ * LINE 6", SKIP-DASH, WHITE (2' LINE - 6' SPACE)
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- ⑧ * LINE 2 @ 6", SOLID, WHITE - CROSSWALK LINES
(PEDESTRIAN, BIKE & EQUESTRIAN) (TYP)
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- ⑩ * LINE 8", SOLID, WHITE
- GORE MARKING AND
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- GORE MARKING AND CHANNELIZING LINES
DIAGONALS @ 45° (TYP)
- SHOULDER DIAGONALS @ 45° (TYP)
- CROSSWALK DIAGONALS @ 45°
(BIKE & EQUESTRIAN) (TYP)
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- ⑮ * LETTERS & SYMBOLS, WRONG WAY ARROW (SEE
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- ⑯ * LETTERS & SYMBOLS, LANE REDUCTION ARROW (SEE
STATE STANDARD 780001 FOR DETAILS)

NOTES:

- 1) ALL FINAL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH TC-12 AND TC-13 DISTRICT ONE STANDARD DETAILS.
- 2) ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH TC-11 AND TC-12 DISTRICT ONE STANDARD DETAIL.

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PLOT DATE = 3/17/2022		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY & PAVEMENT MARKING PLAN IL 137 (BELVIDERE RD TO BUCKLEY RD)	
SCALE: 1"=50'	SHEET 7 OF 7 SHEETS STA. 190+00.00 TO STA. 201+98.29

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2020-090-R5&SW	LAKE	68	19
CONTRACT NO. 62L68				
ILLINOIS FED. AID PROJECT				

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SIDEWALK CURB RAMP DETAILS
 IL 137 (BELVIDERE RD TO BUCKLEY RD)**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2020-090-R5&SW	LAKE	68	20
CONTRACT NO. 62L68				
ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET			HANDHOLE -SQUARE -ROUND			SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD		
COMMUNICATION CABINET			HEAVY DUTY HANDHOLE -SQUARE -ROUND			SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE		
MASTER CONTROLLER			DOUBLE HANDHOLE			PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
MASTER MASTER CONTROLLER			JUNCTION BOX			PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER		
UNINTERRUPTABLE POWER SUPPLY			RAILROAD CANTILEVER MAST ARM			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
SERVICE INSTALLATION -(P) POLE MOUNTED			RAILROAD FLASHING SIGNAL			NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED		
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED			RAILROAD CROSSING GATE			GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)		
TELEPHONE CONNECTION			RAILROAD CROSSBUCK			ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C		
STEEL MAST ARM ASSEMBLY AND POLE			RAILROAD CONTROLLER CABINET			COAXIAL CABLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			VENDOR CABLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE			TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY			SYSTEM ITEM			FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F		
WOOD POLE			INTERSECTION ITEM			GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE		
GUY WIRE			REMOVE ITEM					
SIGNAL HEAD			RELOCATE ITEM					
SIGNAL HEAD WITH BACKPLATE			ABANDON ITEM					
SIGNAL HEAD OPTICALLY PROGRAMMED			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED					
FLASHER INSTALLATION -(FS) SOLAR POWERED			MAST ARM POLE AND FOUNDATION TO BE REMOVED					
PEDESTRIAN SIGNAL HEAD			SIGNAL POST AND FOUNDATION TO BE REMOVED					
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON			DETECTOR LOOP, TYPE I					
RADAR DETECTION SENSOR			PREFORMED DETECTOR LOOP					
VIDEO DETECTION CAMERA			SAMPLING (SYSTEM) DETECTOR					
RADAR/VIDEO DETECTION ZONE			INTERSECTION AND SAMPLING (SYSTEM) DETECTOR					
PAN, TILT, ZOOM (PTZ) CAMFRA			QUEUE AND SAMPLING (SYSTEM) DETECTOR					
EMERGENCY VEHICLE LIGHT DETECTOR			WIRELESS DETECTOR SENSOR					
CONFIRMATION BEACON			WIRELESS ACCESS POINT					
WIRELESS INTERCONNECT								
WIRELESS INTERCONNECT RADIO REPEATER								

TS SHT NO. 1

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

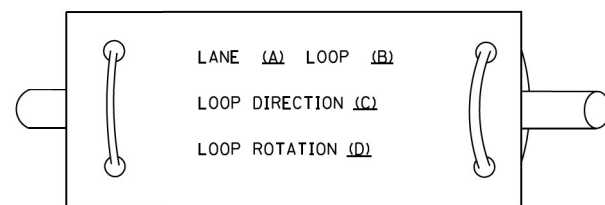
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		LAKE	68	21
TS-05			CONTRACT NO. 62L68	
ILLINOIS FED. AID PROJECT				

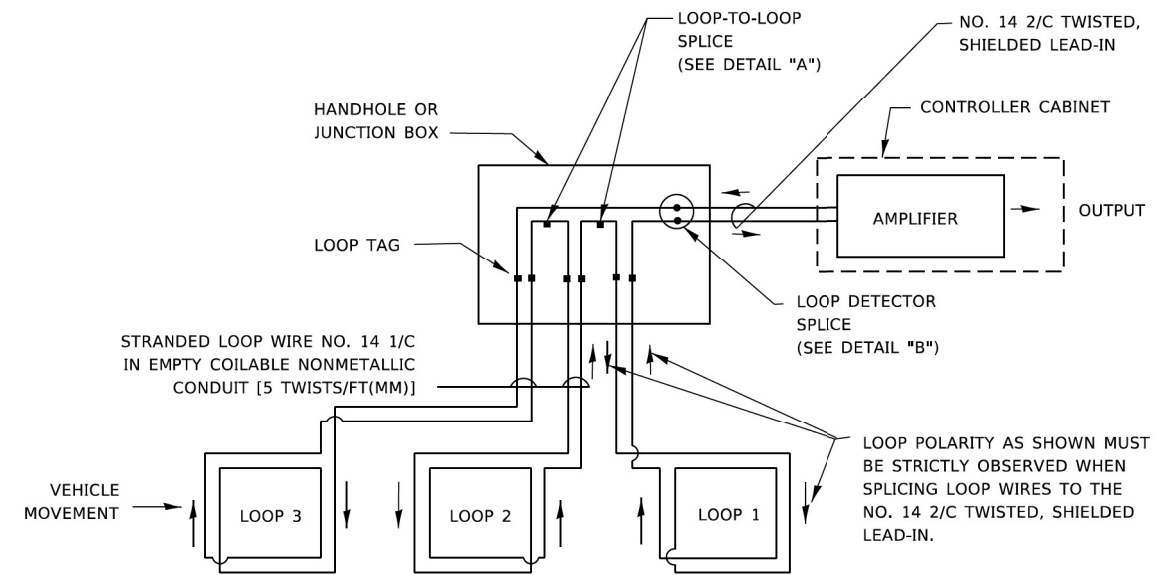
LOOP DETECTOR NOTES

- 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.

LOOP LEAD-IN CABLE TAG

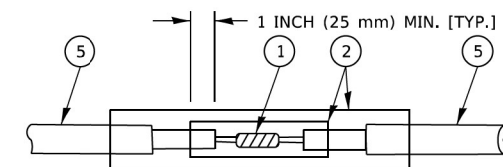


- LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

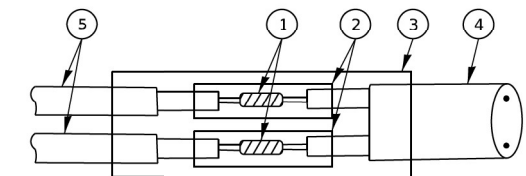


DETECTOR LOOP WIRING SCHEMATIC

- 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.

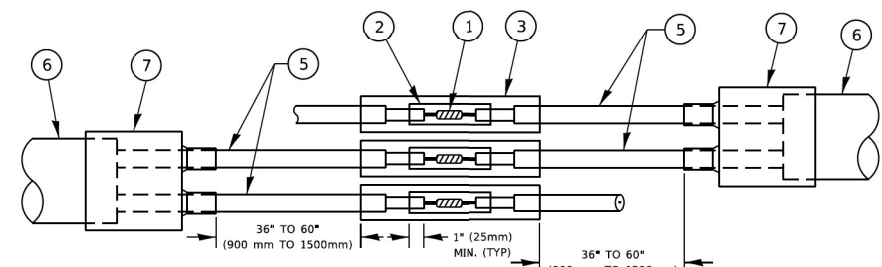


DETAIL "A"
LOOP-TO-LOOP SPLICE

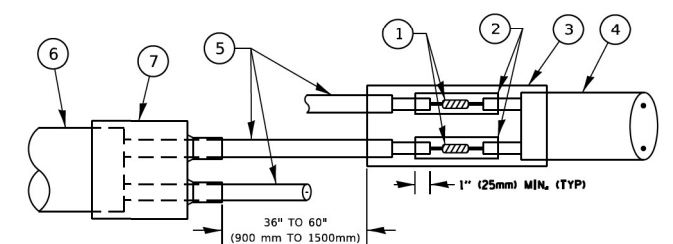


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

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

TS SHT NO. 2

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

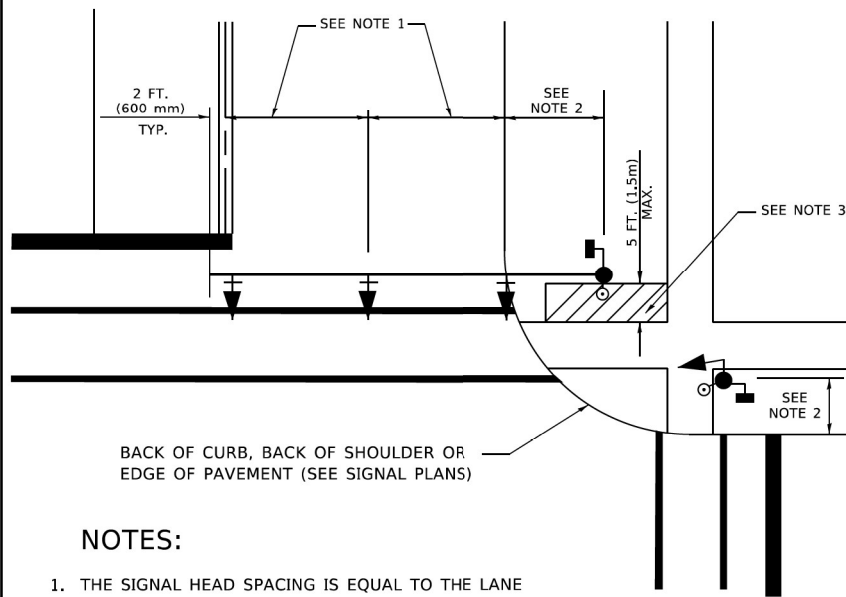
DISTRICT ONE
 STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET 2 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		LAKE	68	22
TS-05			CONTRACT NO. 62L68	
ILLINOIS		FED. AID PROJECT		

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

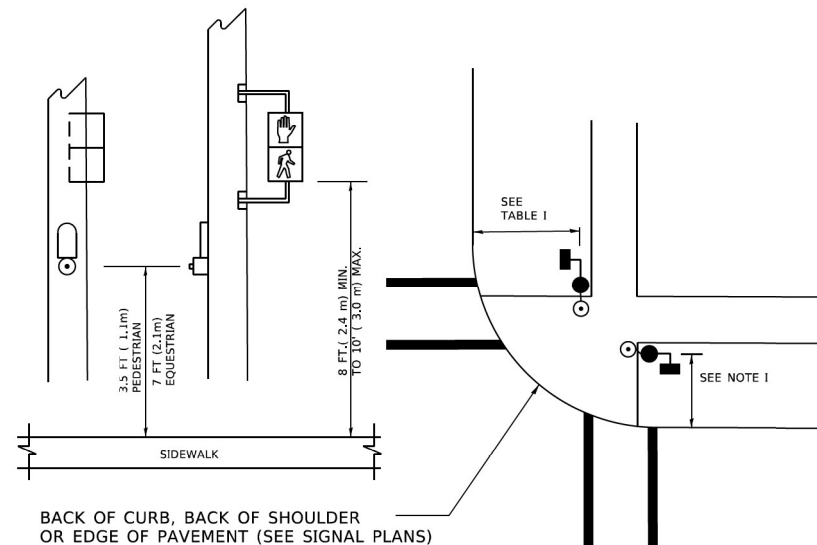
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

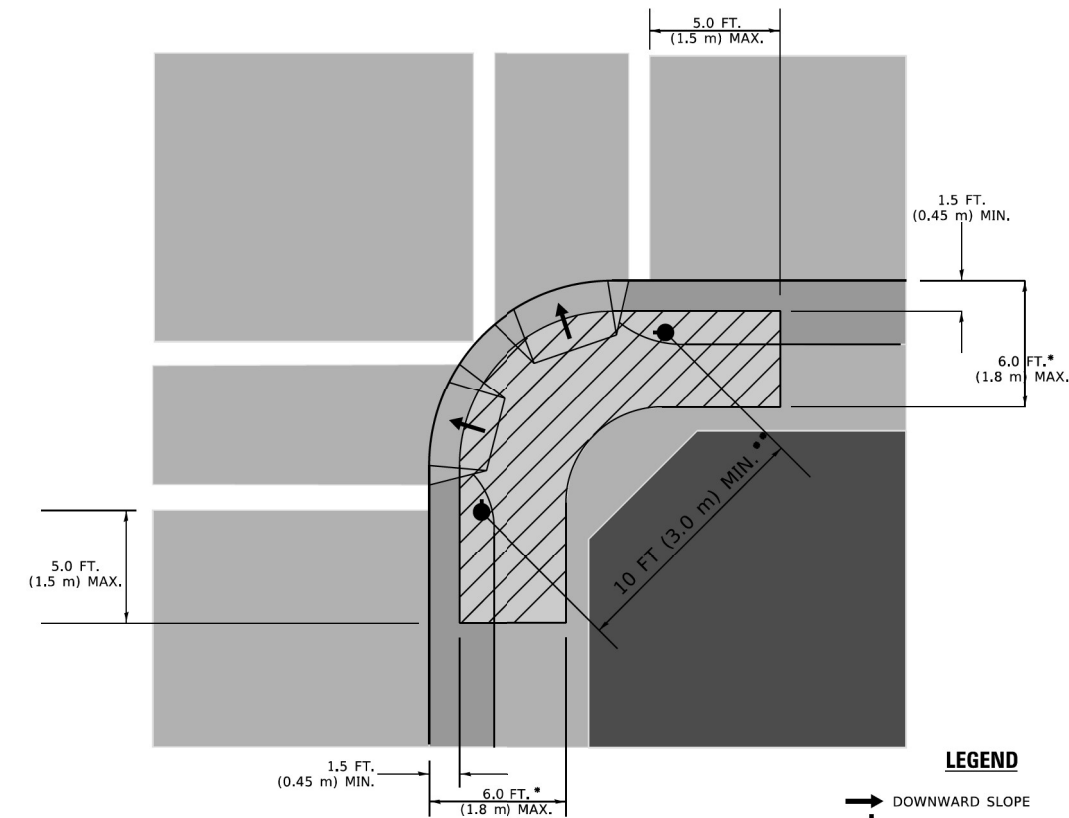
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



LEGEND

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- ▨ RECOMMENDED PUSHBUTTON LOCATIONS

- * WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- ** WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

TS SHT NO. 3

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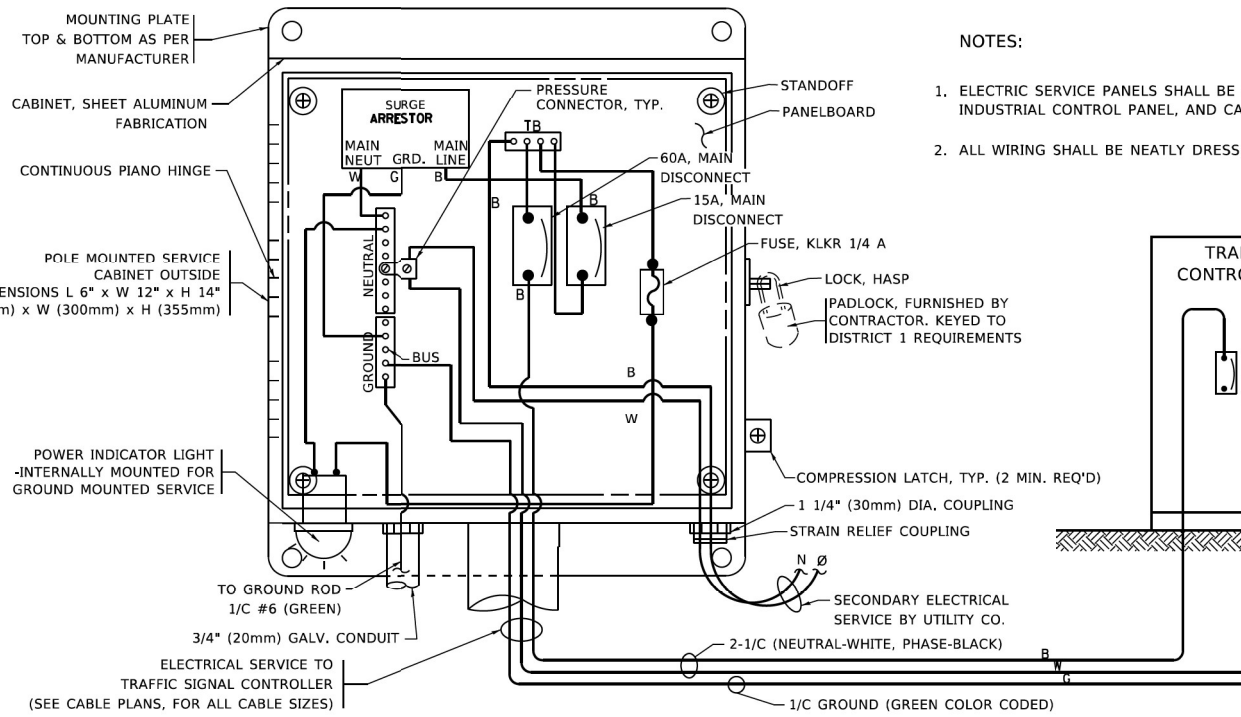
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

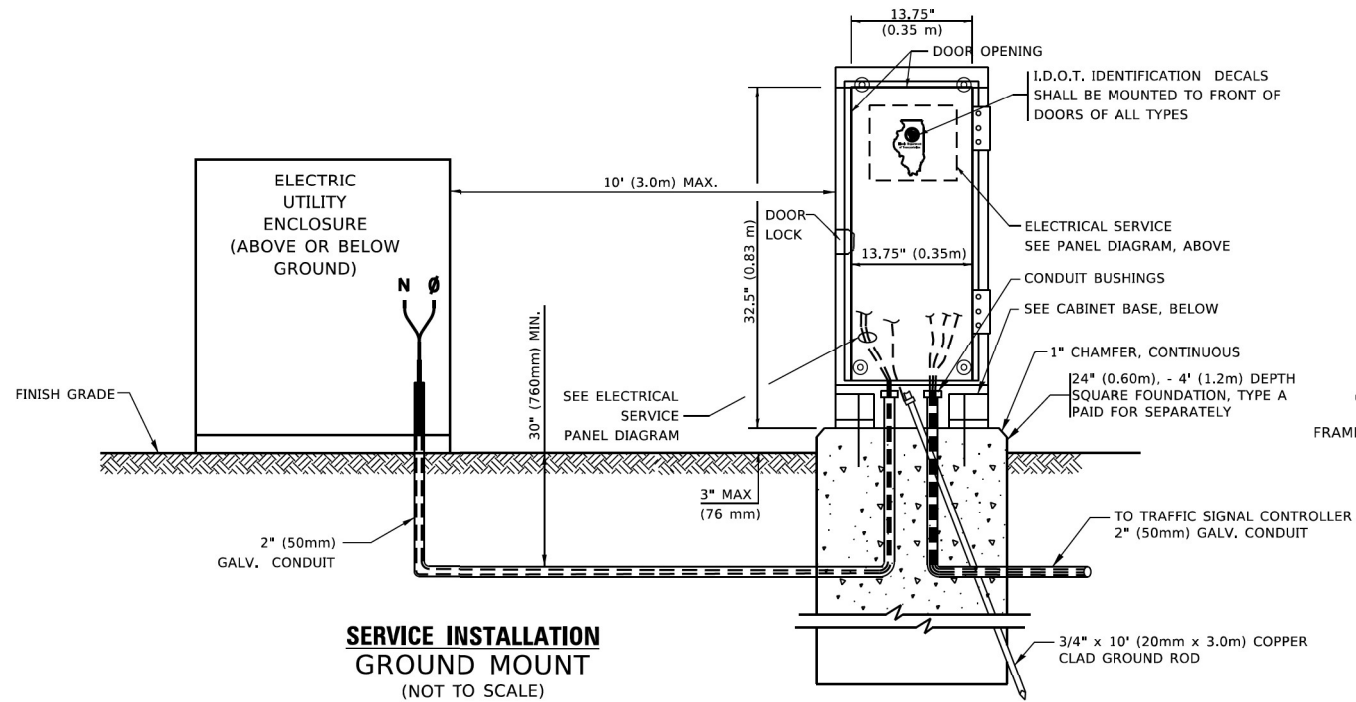
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 3 OF 7 SHEETS STA. TO STA.

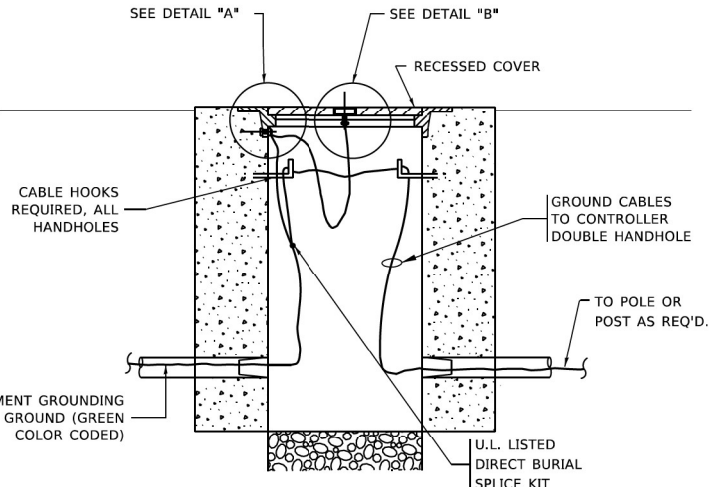
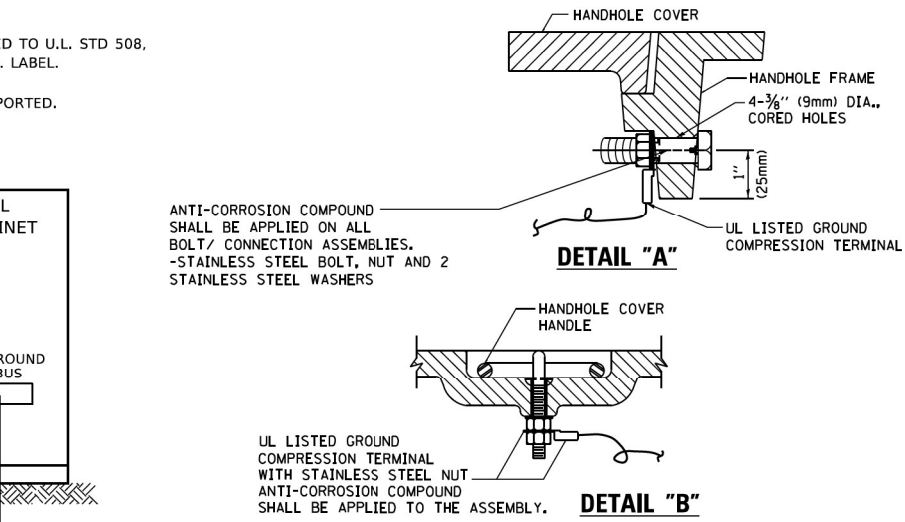
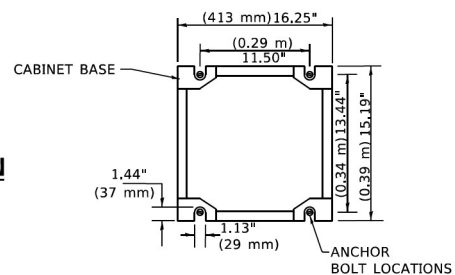
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TS-05		CONTRACT NO. 62L68		
ILLINOIS FED. AID PROJECT				



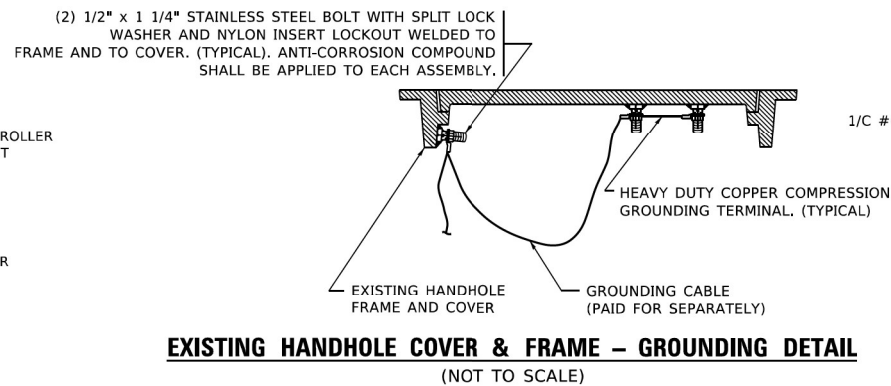
ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)



CABINET - BASE BOLT PATTERN
 (NOT TO SCALE)



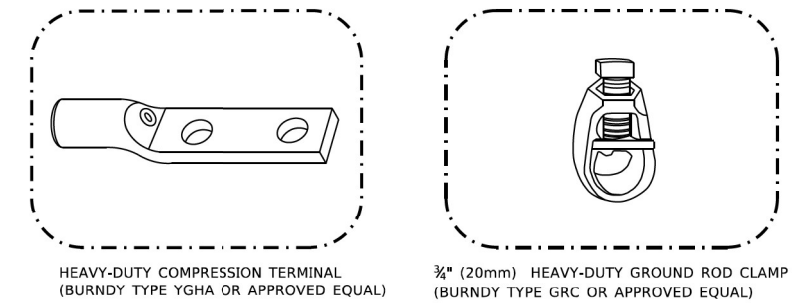
HANDHOLE COVER & FRAME - GROUNDING DETAIL
 (NOT TO SCALE)



EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL
 (NOT TO SCALE)

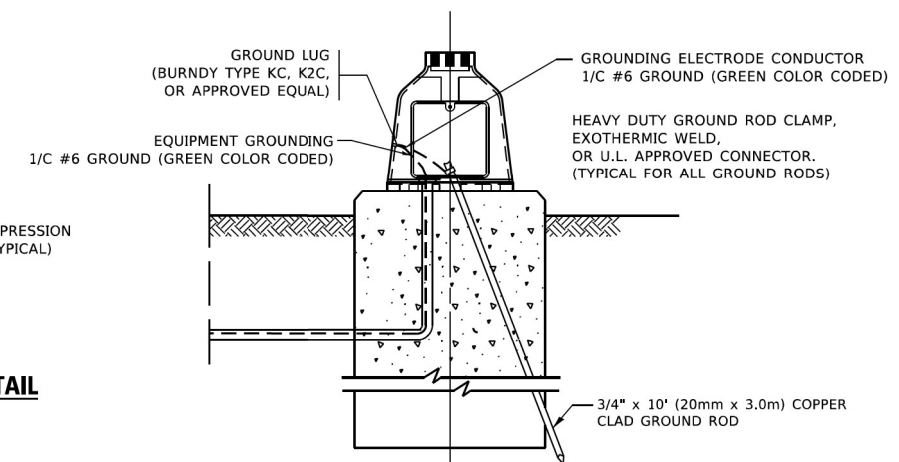
NOTES:
GROUNDING SYSTEM

- THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
- THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
- ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
- THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



NOTES:

- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES
- 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES
- 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES.
- 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



MAST ARM POLE /POST-GROUNDING DETAIL
 (NOT TO SCALE)

TS SHT NO. 4

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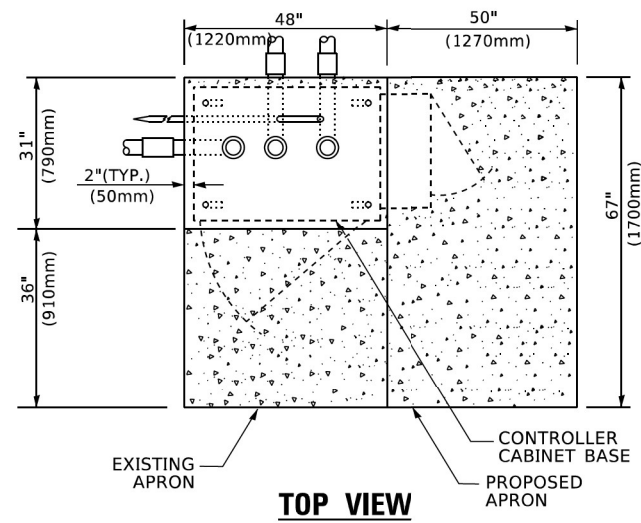
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

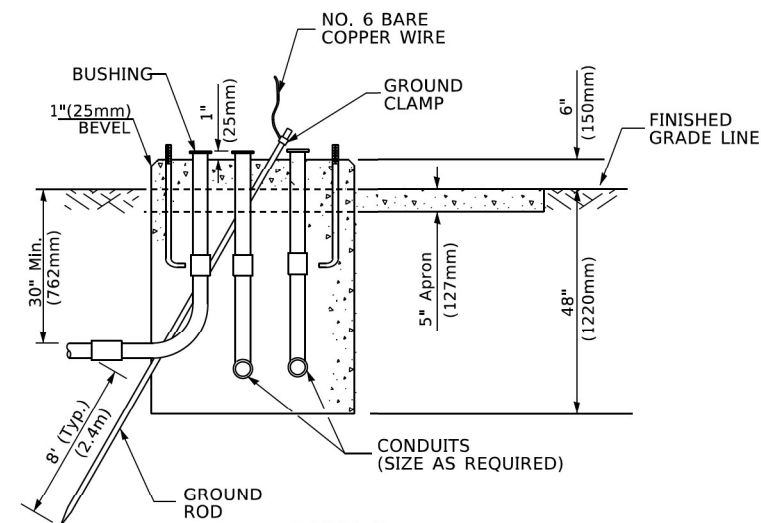
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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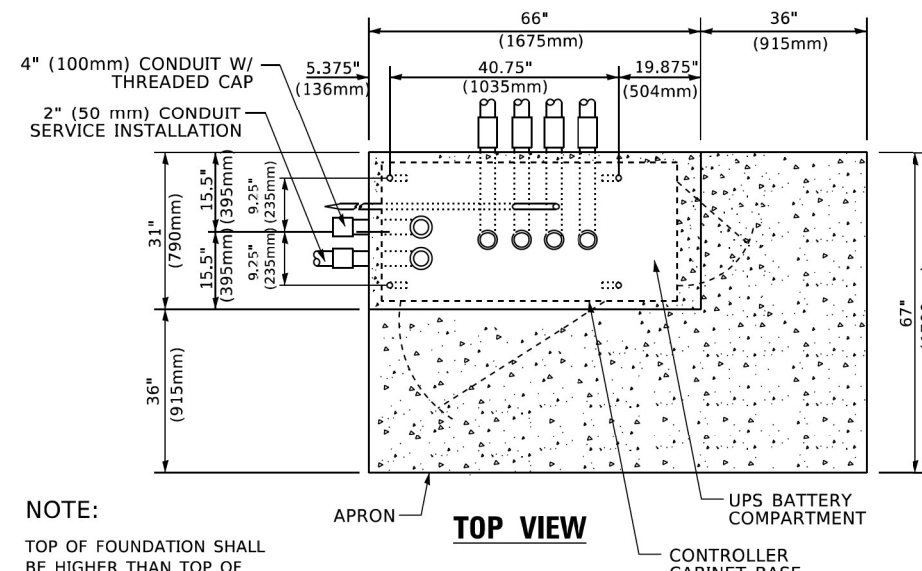
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TS-05		CONTRACT NO. 62L68		
ILLINOIS		FED. AID PROJECT		



TOP VIEW

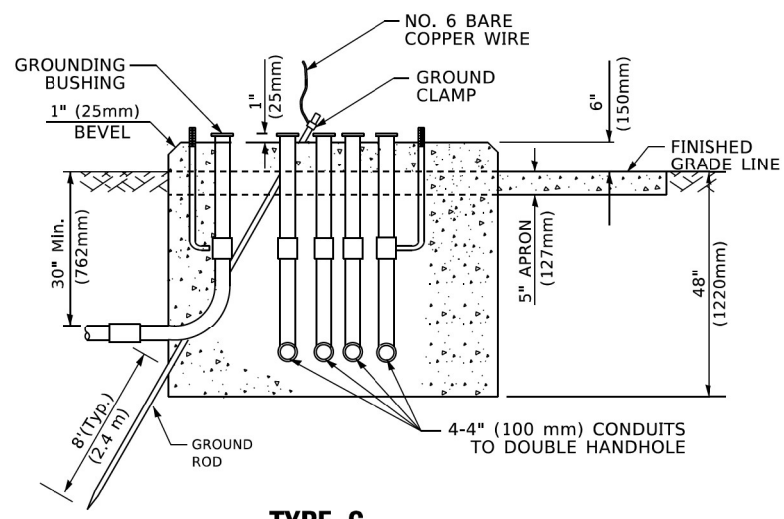


**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**

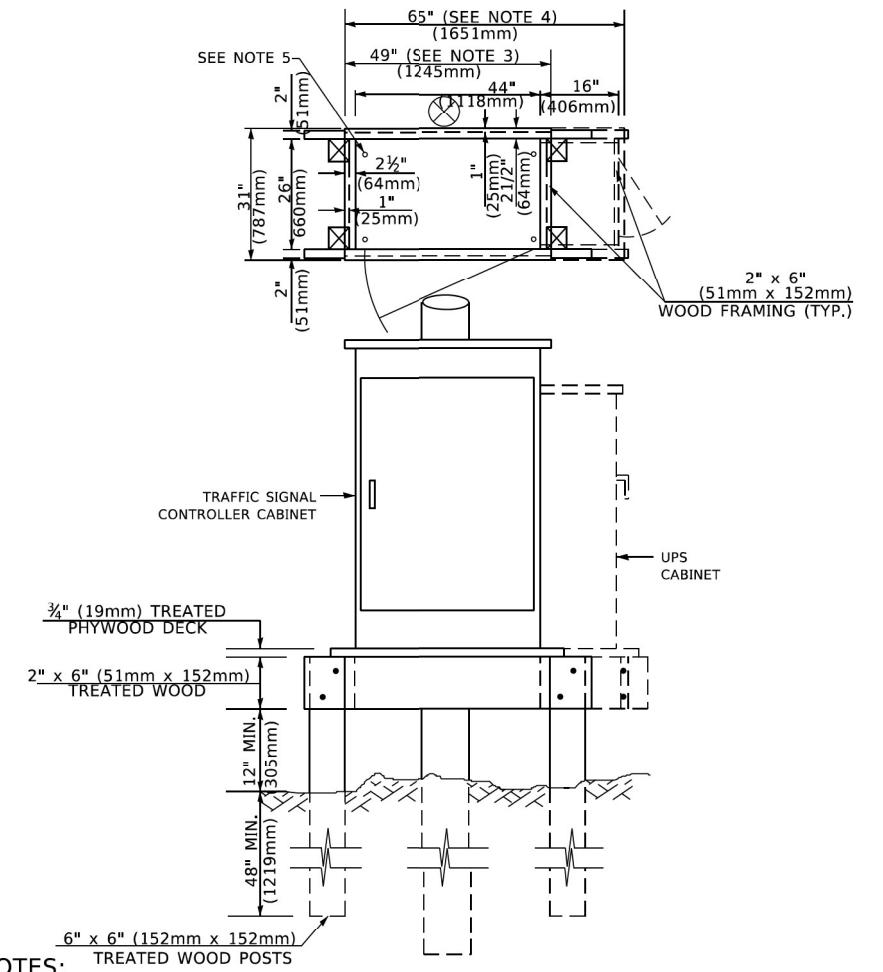


TOP VIEW

NOTE:
TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



**TYPE C
FOR GROUND MOUNTED
SUPER P (TYPE IV) AND SUPER R (TYPE V)
CONTROLLER CABINETS**



NOTES:

1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION..

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

DEPTH OF FOUNDATION

MAST ARM LENGTH	① FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
4. For mast arm assemblies with dual arms refer to state standard 878001..

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

TS SHT NO. 5

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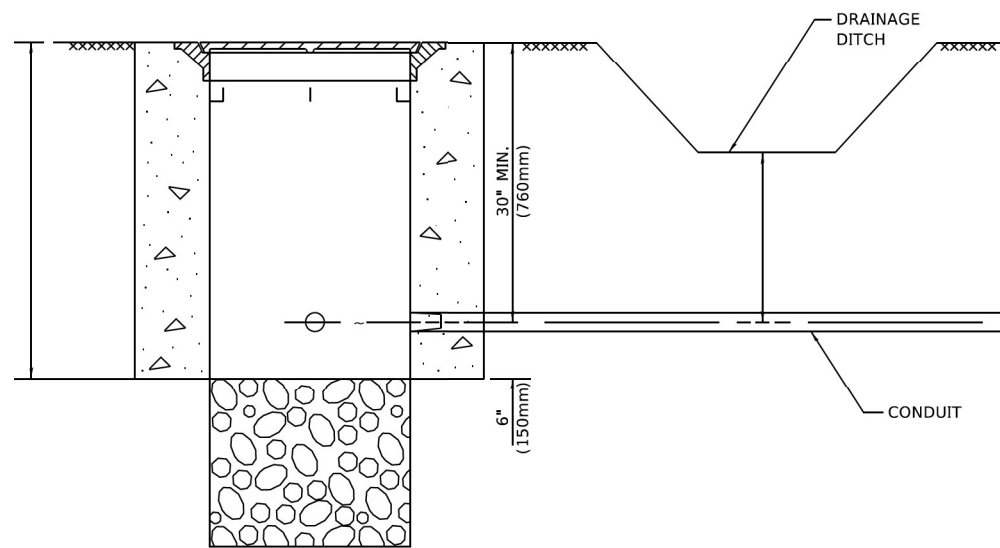
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE: NONE	SHEET 5 OF 7 SHEETS	STA. TO STA.
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**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

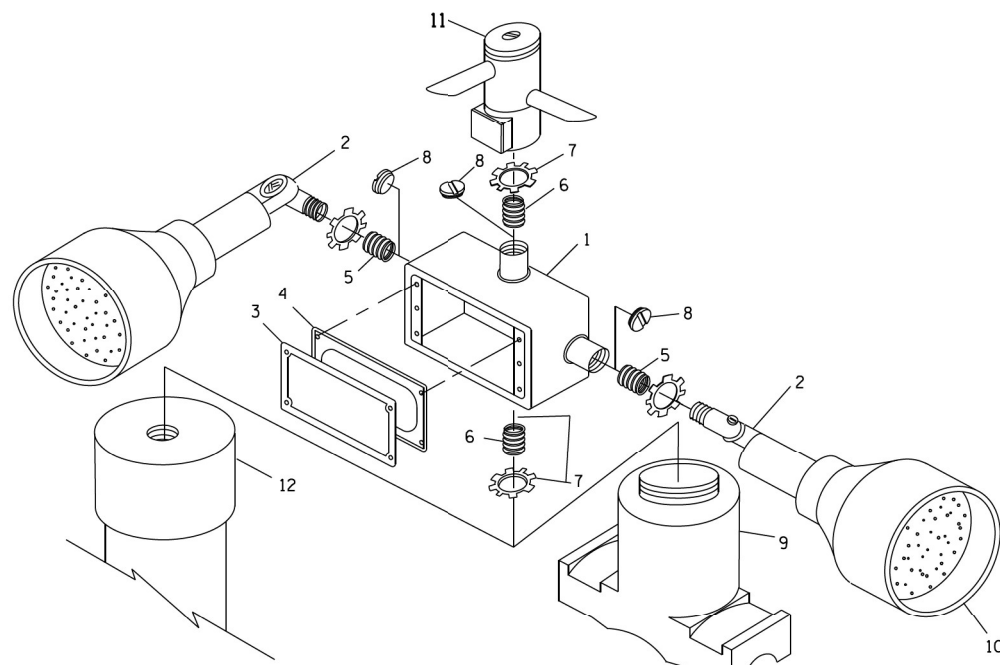
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		LAKE	68	25
TS-05		CONTRACT NO. 62L68		
ILLINOIS FED. AID PROJECT				



NOTES:

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

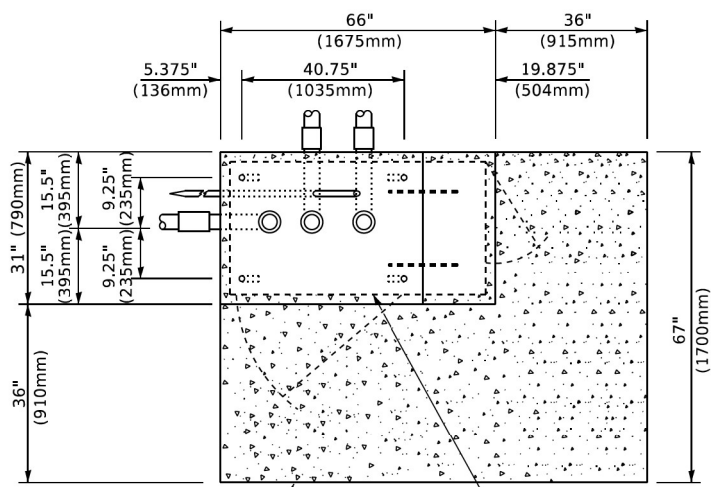
HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)



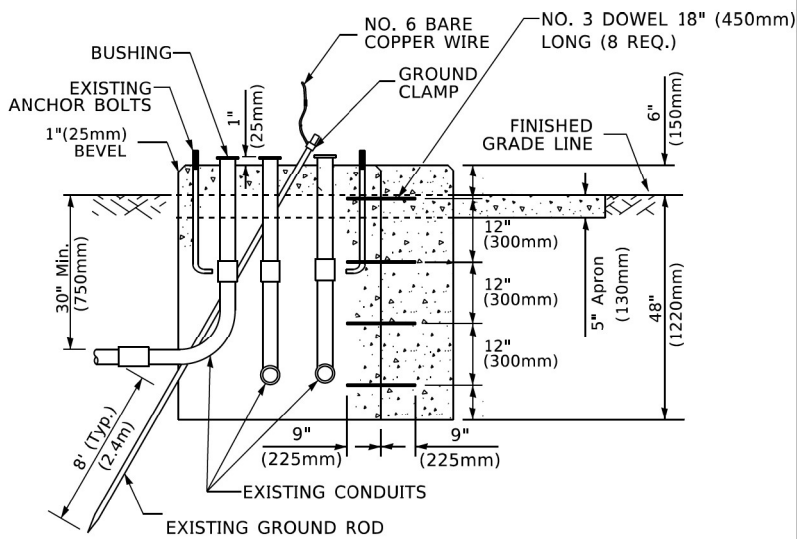
POST CAP MOUNT

MAST ARM MOUNT

**EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION
BEACON MOUNTING DETAIL**



TOP VIEW
(NOT TO SCALE)

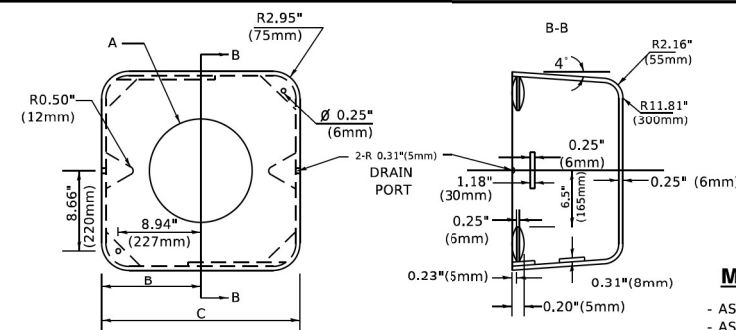


**MODIFY EXISTING TYPE "D" FOUNDATION
TO TYPE "C" FOUNDATION**
(NOT TO SCALE)

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4 " (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



MATERIAL

- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

A	B	C	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

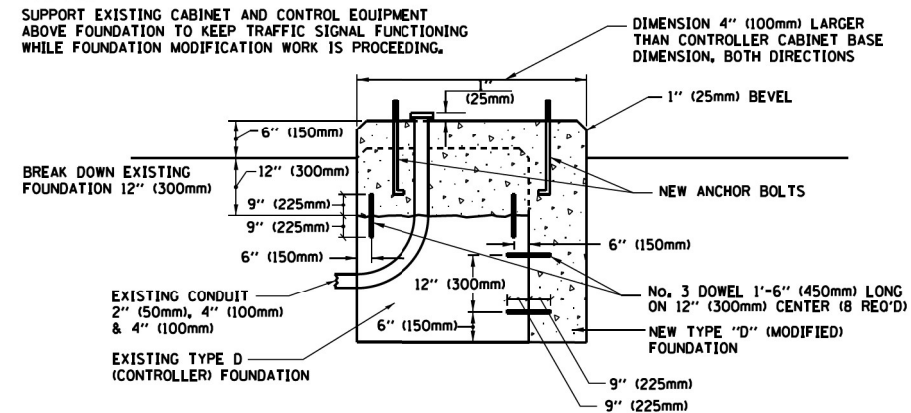
SHROUD

NOTES:

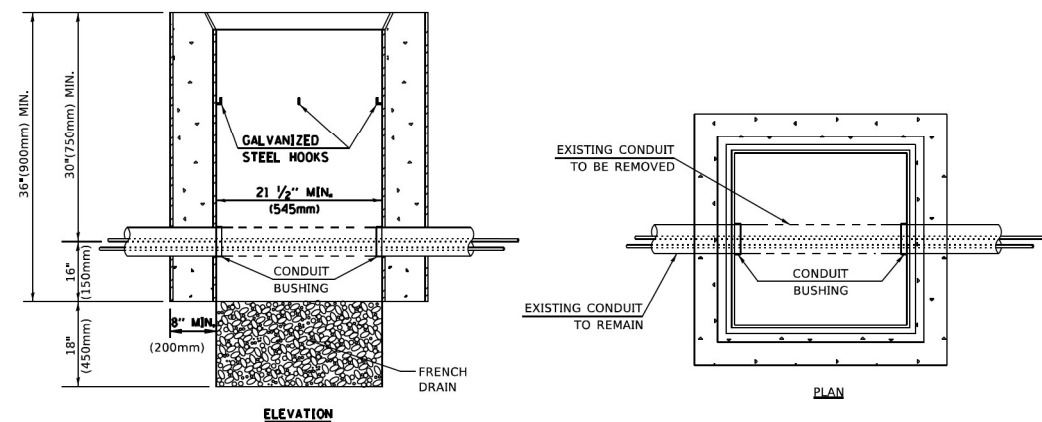
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION



ELEVATION

PLAN

NOTES:

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

TS SHT NO. 6

MODEL Default
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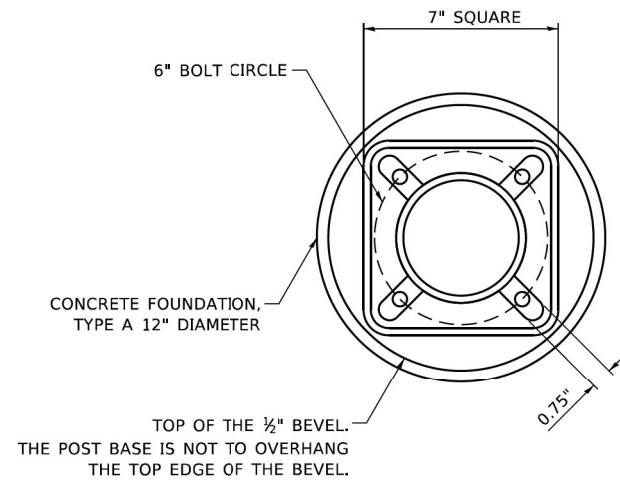
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	DRAWN -	REVISED -
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PLOT DATE = 12/23/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 6 OF 7 SHEETS STA. TO STA.

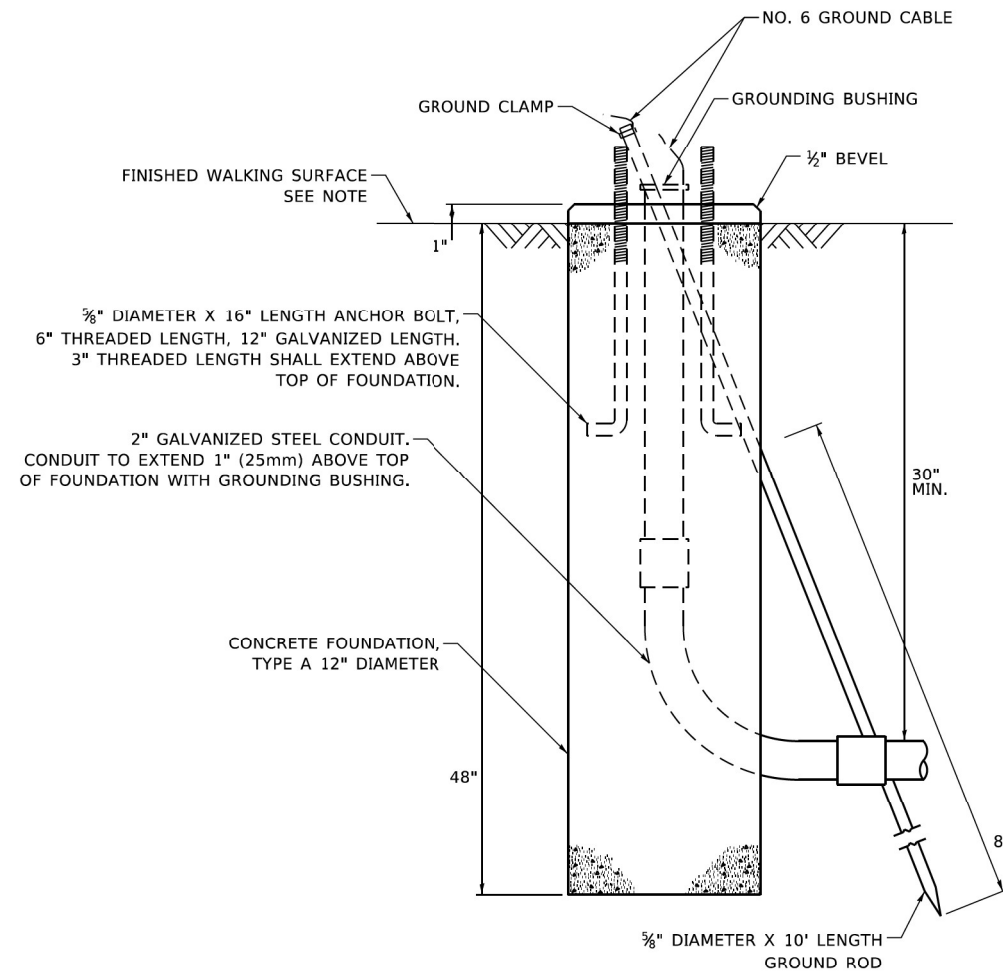
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		LAKE	68	26
TS-05			CONTRACT NO. 62L68	
ILLINOIS FED. AID PROJECT				



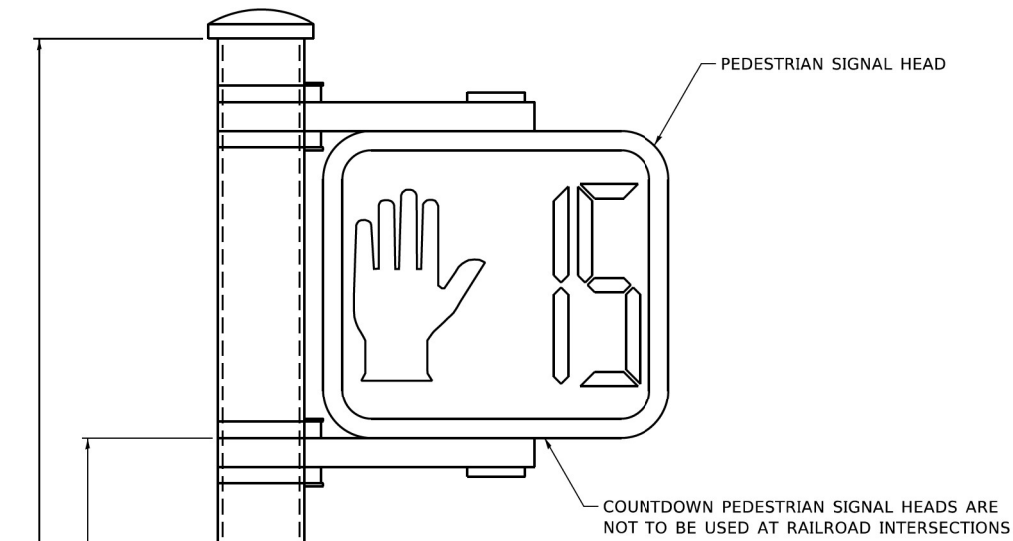
BOLT PATTERN

NOTE:

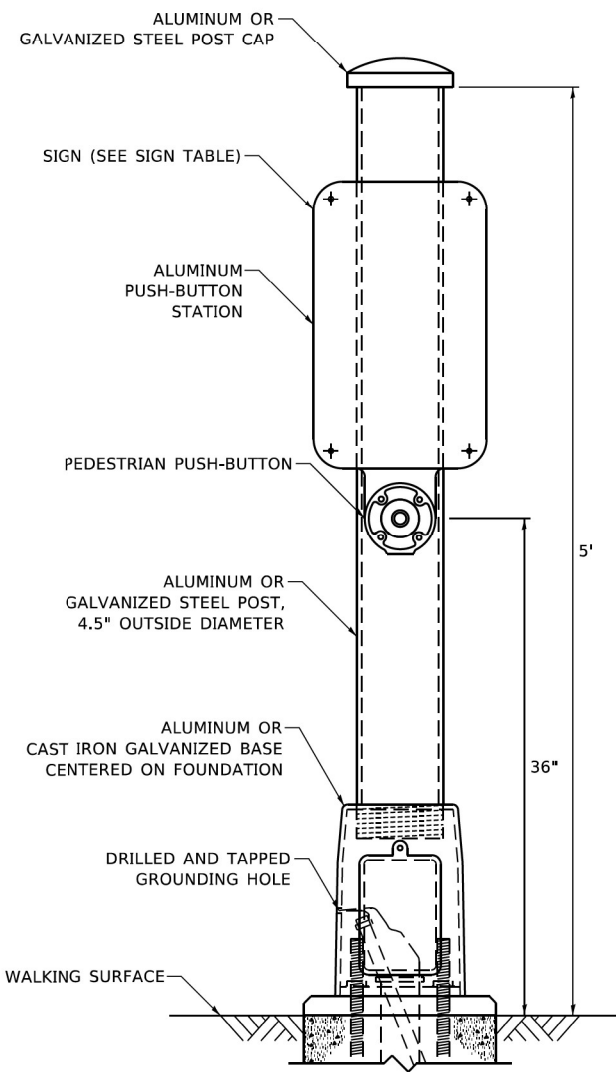
1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



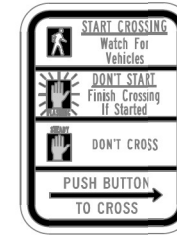
**CONCRETE FOUNDATION,
TYPE A 12-INCH DIAMETER**



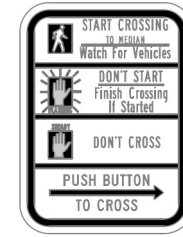
PEDESTRIAN SIGNAL POST, 10 FT.



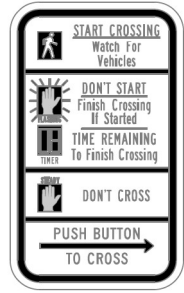
PEDESTRIAN SIGNAL POST, 5 FT.



R10-3b



R10-3d



R10-3e

SIGN TABLE

SIGN	DIMENSIONS
R10-3b (RAILROAD ONLY)	9" X 12"
R10-3d (RAILROAD ONLY)	9" X 12"
R10-3e	9" X 15"

NOTES:

1. THE SIGN PANELS SHALL BE TYPE AP SHEETING.
2. THE ARROW ON SIGNS FOR PUSH-BUTTONS SERVING TWO DIRECTIONS ON THE SAME PHASE SHALL BE BI-DIRECTIONAL.
3. THE SIGN FOR DUAL-CALL PUSH-BUTTONS SHALL HAVE NO ARROW.

TS SHT NO. 7

MODEL: Default
FILE NAME: 31070DesignDBlin_hovae_Design(62L68_IL_13715)Symbol_12-20-19.dgn

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	DRAWN - IP	REVISED -
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PLOT DATE = 12/23/2021	DATE - 10/15/2018	REVISED -

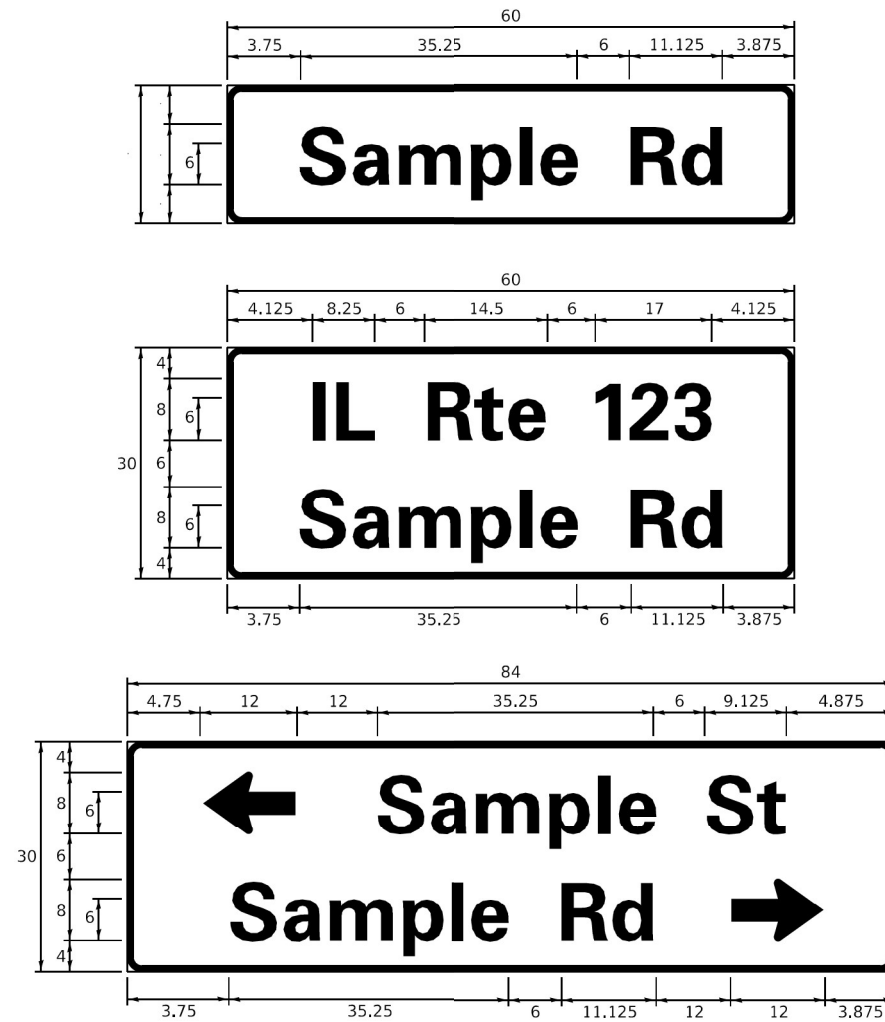
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 7 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		LAKE	68	27
TS-05			CONTRACT NO. 62L68	
ILLINOIS FED. AID PROJECT				

SIGN PANEL – TYPE 1 OR TYPE 2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D OR C	-	1 OR 2	ZZ	-

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

NAME	ABBREVIATION	WIDTH (INCH)	
		SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	Blvd	17.125	20.000
CIRCLE	Clr	11.125	13.000
COURT	Ct	8.250	9.625
DRIVE	Dr	8.625	10.125
HIGHWAY	Hwy	18.375	22.000
ILLINOIS	IL	7.000	8.250
LANE	Ln	9.125	10.750
PARKWAY	Pkwy	23.375	27.375
PLACE	Pl	7.125	7.750
ROAD	Rd	9.625	11.125
ROUTE	Rte	12.625	14.500
STREET	St	8.000	9.125
TERRACE	Ter	12.625	14.625
TRAIL	Tr	7.750	9.125
UNITED STATES	US	10.375	12.250

GENERAL NOTES

- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
- THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
- A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8'-0" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8'-0" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-0" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THE ABBREVIATION CANNOT FIT ON THE FIRST LINE.
- LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
- SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

LOCAL SUPPLIERS:

- J.O. HERBERT COMPANY, INC
MIDLOTHIAN, VA
- WESTERN REMAC, INC.
WOODRIDGE, IL

PARTS LISTING:

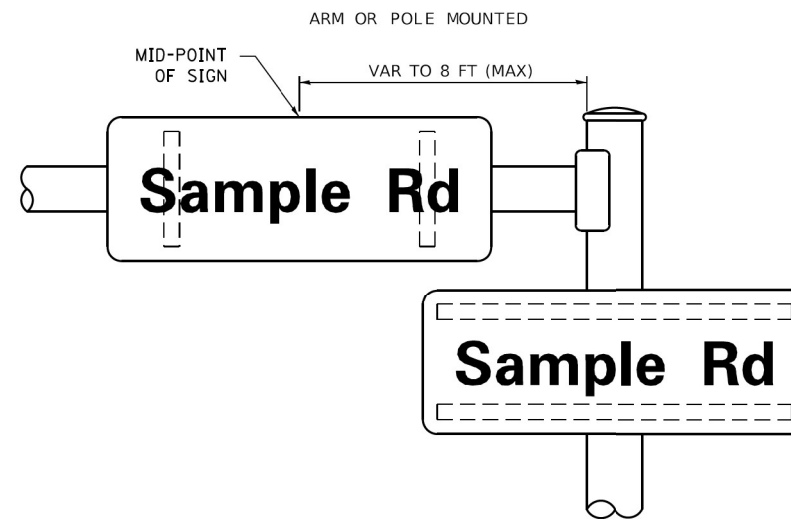
- SIGN CHANNEL PART #HPN053 (MED. CHANNEL)
- SIGN SCREWS 1/4" x 14 x 1" H.W.H. #3
- BRACKETS PART #HPN034 (UNIVERSAL)
- CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING SELF TAPPING WITH NEOPRENE WASHER

OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BACKET OF THE ABOVE PRODUCT.

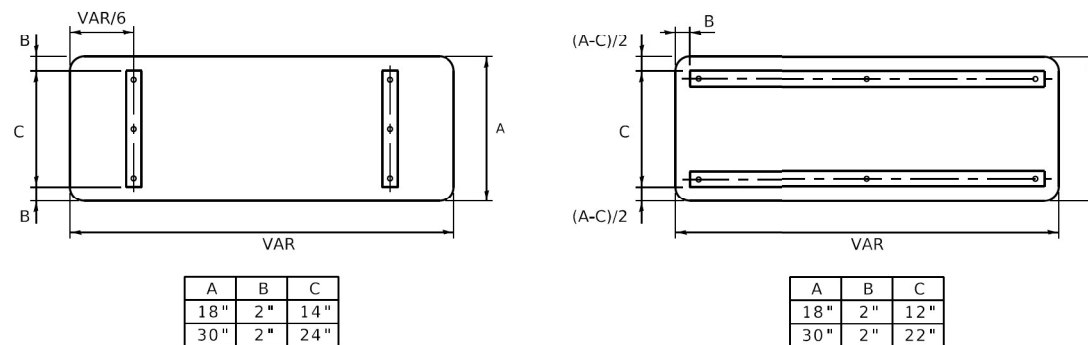
STANDARD ALPHABETS SPACING CHART
(8") UPPER CASE AND (6") LOWER CASE

CHARACTER	FHWA SERIES "C"			FHWA SERIES "D"			
	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)
A	0.240	5.122	0.240	A	0.240	6.804	0.240
B	0.880	4.432	0.480	B	0.960	5.446	0.400
C	0.720	4.432	0.720	C	0.800	5.446	0.800
D	0.880	4.432	0.720	D	0.960	5.446	0.800
E	0.880	4.032	0.480	E	0.960	4.962	0.400
F	0.880	4.032	0.240	F	0.960	4.962	0.240
G	0.720	4.432	0.720	G	0.800	5.446	0.800
H	0.880	4.432	0.880	H	0.960	5.446	0.960
I	0.880	1.120	0.880	I	0.960	1.280	0.960
J	0.240	4.032	0.880	J	0.240	5.122	0.960
K	0.880	4.432	0.480	K	0.960	5.604	0.400
L	0.880	4.032	0.240	L	0.960	4.962	0.240
M	0.880	5.234	0.880	M	0.960	6.244	0.960
N	0.880	4.432	0.880	N	0.960	5.446	0.960
O	0.720	4.722	0.720	O	0.800	5.684	0.800
P	0.880	4.432	0.720	P	0.960	5.446	0.240
Q	0.720	4.722	0.720	Q	0.800	5.684	0.800
R	0.880	4.432	0.480	R	0.960	5.446	0.400
S	0.480	4.432	0.480	S	0.400	5.446	0.400
T	0.240	4.032	0.240	T	0.240	4.962	0.240
U	0.880	4.432	0.880	U	0.960	5.446	0.960
V	0.240	4.952	0.240	V	0.240	6.084	0.240
W	0.240	6.034	0.240	W	0.240	7.124	0.240
X	0.240	4.722	0.240	X	0.400	5.446	0.400
Y	0.240	5.122	0.240	Y	0.240	6.884	0.240
Z	0.480	4.432	0.480	Z	0.400	5.446	0.400
a	0.320	3.842	0.640	a	0.400	4.562	0.720
b	0.720	4.032	0.480	b	0.800	4.802	0.480
c	0.480	4.002	0.240	c	0.480	4.722	0.240
d	0.480	4.032	0.720	d	0.480	4.802	0.800
e	0.480	4.032	0.320	e	0.480	4.722	0.320
f	0.320	2.480	0.160	f	0.320	2.882	0.160
g	0.480	4.032	0.720	g	0.480	4.802	0.800
h	0.720	4.032	0.640	h	0.800	4.722	0.720
i	0.720	1.120	0.720	i	0.800	1.280	0.800
j	0.000	2.320	0.720	j	0.000	2.642	0.800
k	0.720	4.322	0.160	k	0.800	5.122	0.160
l	0.720	1.120	0.720	l	0.800	1.280	0.800
m	0.720	6.724	0.640	m	0.800	7.926	0.720
n	0.720	4.032	0.640	n	0.800	4.722	0.720
o	0.480	4.032	0.480	o	0.480	4.882	0.480
p	0.720	4.032	0.480	p	0.800	4.802	0.480
q	0.480	4.032	0.720	q	0.480	4.802	0.800
r	0.720	2.642	0.160	r	0.800	3.042	0.160
s	0.320	3.352	0.240	s	0.320	3.762	0.240
t	0.080	2.832	0.080	t	0.080	3.202	0.080
u	0.640	4.032	0.720	u	0.720	4.722	0.800
v	0.160	4.722	0.160	v	0.160	5.684	0.160
w	0.160	7.524	0.160	w	0.160	9.046	0.160
x	0.000	5.202	0.000	x	0.000	6.244	0.000
y	0.160	4.952	0.160	y	0.160	6.004	0.160
z	0.240	3.352	0.240	z	0.240	4.002	0.240
1	0.720	1.630	0.880	1	0.800	2.000	0.960
2	0.480	4.432	0.480	2	0.800	5.446	0.800
3	0.480	4.432	0.480	3	1.440	5.446	0.800
4	0.240	4.952	0.720	4	0.160	6.004	0.960
5	0.480	4.432	0.480	5	0.800	5.446	0.800
6	0.720	4.432	0.720	6	0.800	5.446	0.800
7	0.240	4.432	0.720	7	0.560	5.446	0.560
8	0.480	4.432	0.480	8	0.800	5.446	0.800
9	0.480	4.432	0.480	9	0.800	5.446	0.800
0	0.720	4.722	0.720	0	0.800	5.684	0.800
-	0.240	2.802	0.240	-	0.240	2.802	0.240

MOUNTING LOCATION



SUPPORTING CHANNELS



TS SHT NO. 8

MODEL: Default
FILE NAME: SignDesign\06168_IL_13715\Symbol_12-20-15.dgn

USER NAME = bennettw	DESIGNED - LP/IP	REVISED - LP 07/01/2015
PLOT SCALE = 50.0000' / 1"	CHECKED - IP	REVISED -
PLOT DATE = 12/23/2021	DATE - 10/01/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
MAST ARM MOUNTED STREET NAME SIGNS

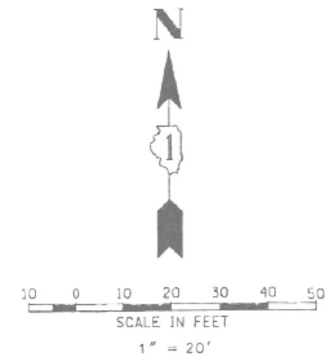
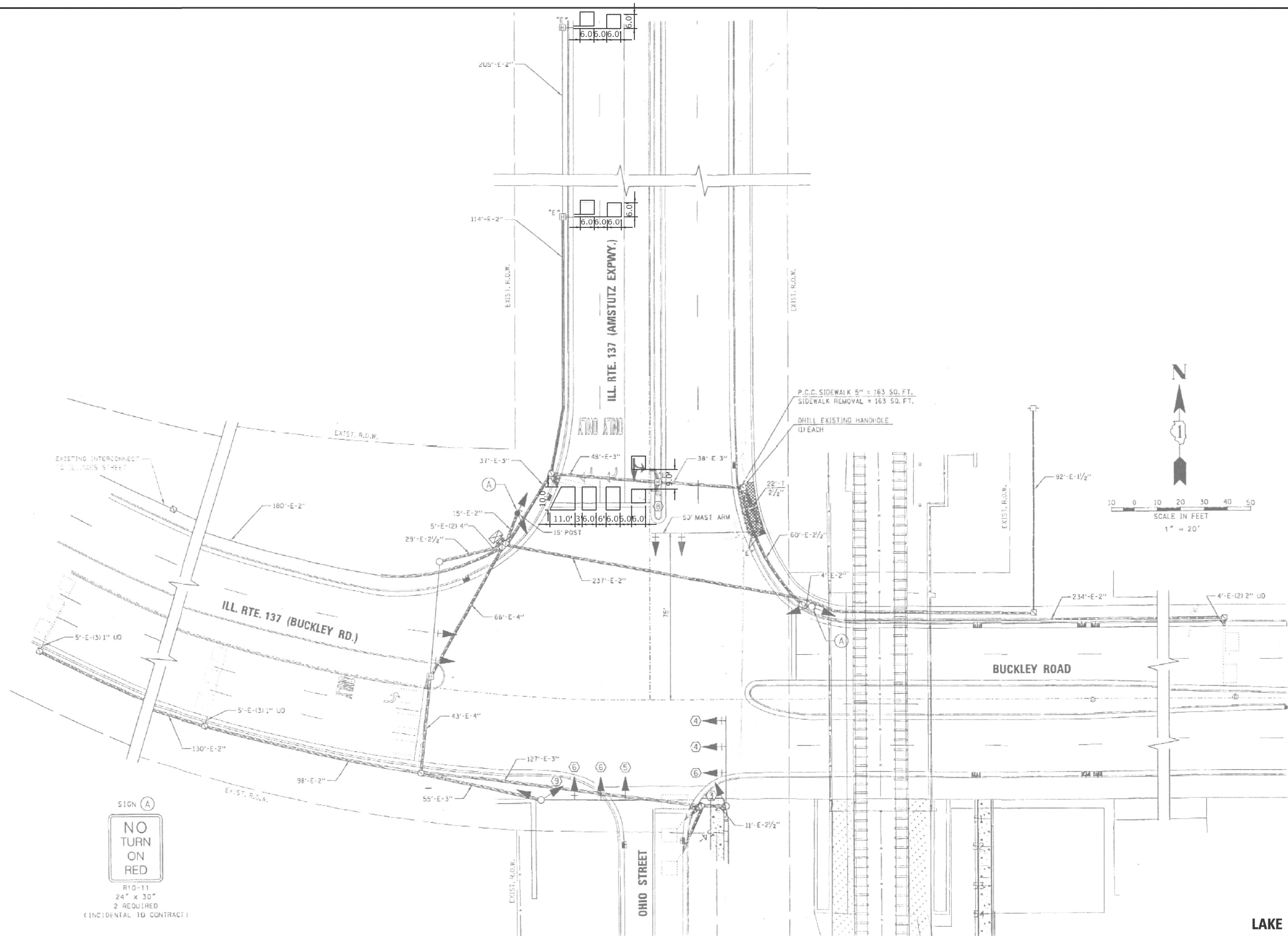
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TS-02	LAKE	68	28
ILLINOIS		FED. AID PROJECT		

SCALE: SHEET OF SHEETS STA. TO STA.

CONTRACT NO. 62L68

TS SHT NO. 09

MODEL Default
 FILE NAME: P:\02_209_002_IDOT_PTB_173_12_Traffic_Signal_Design\Design\W009-Inhouse_Design\CADD\CADD Drawings\62L68_IL_137\Buckley.dgn



SIGN (A)
**NO
 TURN
 ON
 RED**
 R10-11
 24" x 30"
 2 REQUIRED
 (INCIDENTAL TO CONTRACT)

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLANS
 BUCKLEY ROAD AT IL ROUTE 137 (AMSTUZ EXPWY.)/OHIO STREET

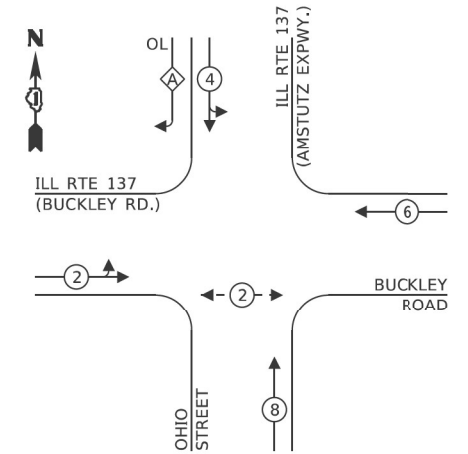
TS 21010
 LAKE COUNTY CENTRACS

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	DRAWN - DB	REVISED -
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PLOT DATE = 2/7/2022	DATE - 12/16/2021	REVISED -

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2020-090-R5&SW	LAKE	68	29
CONTRACT NO. 62L68				
ILLINOIS FED. AID PROJECT				

SHEET OF SHEETS STA. TO STA.

EXISTING CONTROLLER SEQUENCE

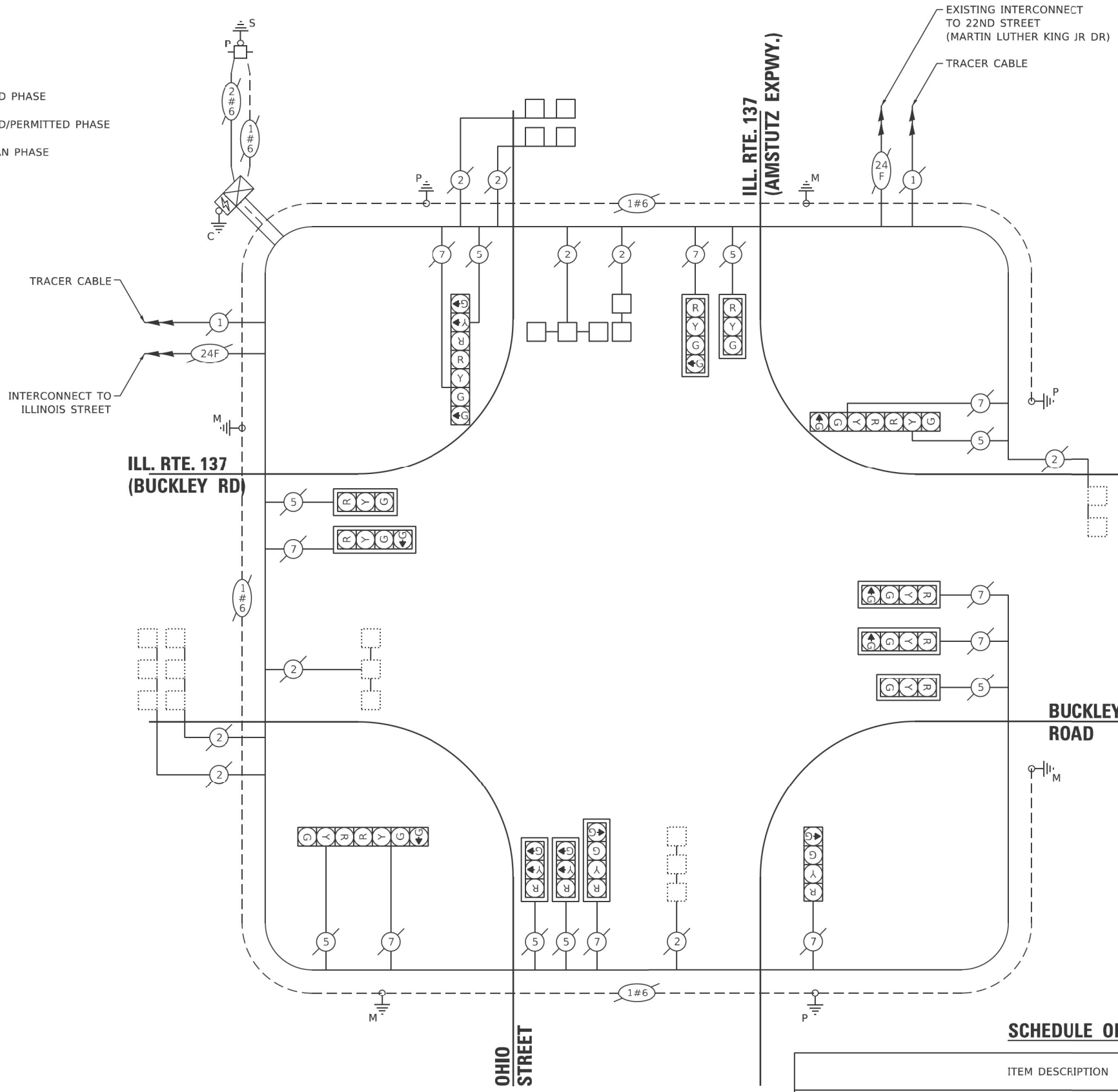


LEGEND:

- ← * → PROTECTED PHASE
- ← - * → PROTECTED/PERMITTED PHASE
- ← * → PEDESTRIAN PHASE
- ← * → OL OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 4



CABLE PLAN
(NOT TO SCALE)

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY
DETECTOR LOOP REPLACEMENT	FOOT	270

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	17	11	50	93.5
(YELLOW)	17	20	5	17.0
(GREEN)	17	12	45	91.8
PERMISSIVE ARROW	9	10	10	9.0
PED. SIGNAL	2	20	100	40.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				376.3

ENERGY COSTS TO:
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 201 WEST CENTER COURT
 SCHAUMBURG, ILLINOIS 60196-1096
 ENERGY SUPPLY: CONTACT: TERRI BLECK
 PHONE: (847) 816-5239
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---

TS SHT NO. 10

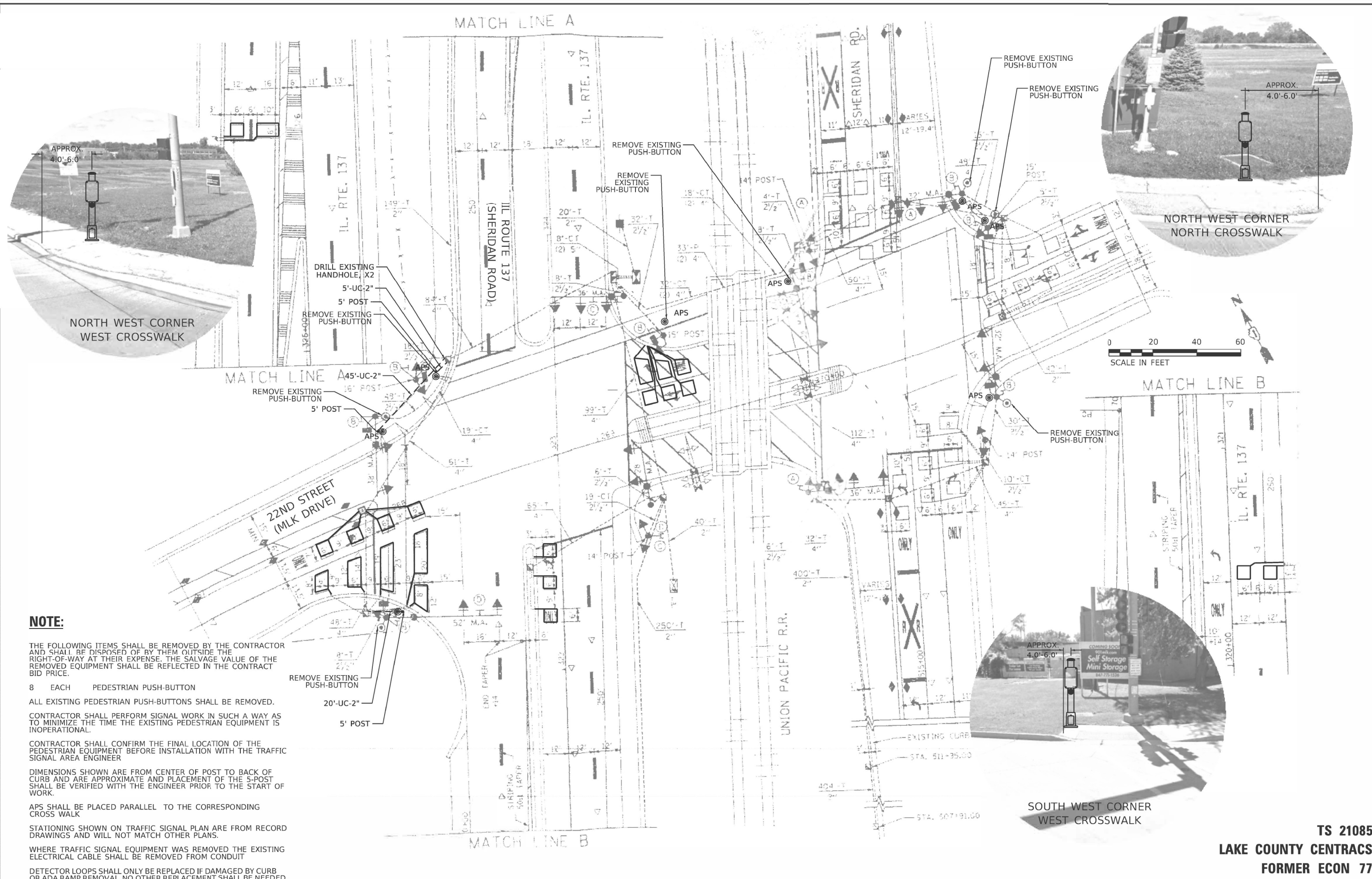
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
BUCKLEY ROAD AT IL ROUTE 137 (AMSTUZ EXPWY.)/OHIO STREET**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2020-090-R5&SW	LAKE	68	30
CONTRACT NO. 62L68				
ILLINOIS FED. AID PROJECT				

**TS 21010
LAKE COUNTY CENTRACS**



NOTE:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

8 EACH PEDESTRIAN PUSH-BUTTON

ALL EXISTING PEDESTRIAN PUSH-BUTTONS SHALL BE REMOVED.

CONTRACTOR SHALL PERFORM SIGNAL WORK IN SUCH A WAY AS TO MINIMIZE THE TIME THE EXISTING PEDESTRIAN EQUIPMENT IS INOPERATIONAL.

CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT BEFORE INSTALLATION WITH THE TRAFFIC SIGNAL AREA ENGINEER

DIMENSIONS SHOWN ARE FROM CENTER OF POST TO BACK OF CURB AND ARE APPROXIMATE AND PLACEMENT OF THE 5-POST SHALL BE VERIFIED WITH THE ENGINEER PRIOR TO THE START OF WORK.

APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSS WALK

STATIONING SHOWN ON TRAFFIC SIGNAL PLAN ARE FROM RECORD DRAWINGS AND WILL NOT MATCH OTHER PLANS.

WHERE TRAFFIC SIGNAL EQUIPMENT WAS REMOVED THE EXISTING ELECTRICAL CABLE SHALL BE REMOVED FROM CONDUIT

DETECTOR LOOPS SHALL ONLY BE REPLACED IF DAMAGED BY CURB OR ADA RAMP REMOVAL. NO OTHER REPLACEMENT SHALL BE NEEDED.

USER NAME = dbennett	DESIGNED = DB	REVISED =
PLOT SCALE = 40.0000' / 1"	DRAWN = DB	REVISED =
PLOT DATE = 2/7/2022	CHECKED = KK	REVISED =
	DATE = 12/21/2021	REVISED =

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

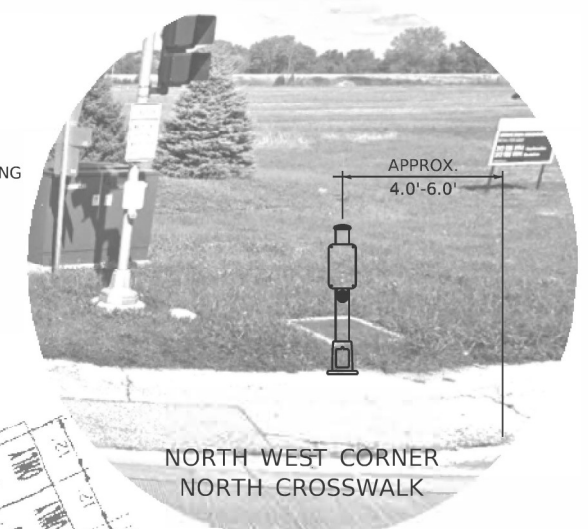
TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM,
AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL ROUTE 137 (SHARIDAN RD) AT 22ND ST / MARTIN LUTHER KING DR

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2020-090-R5&SW	LAKE	68	31
CONTRACT NO. 62L68			ILLINOIS FED. AID PROJECT	



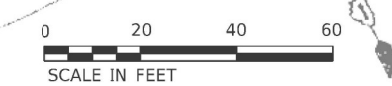
NORTH WEST CORNER
WEST CROSSWALK



NORTH WEST CORNER
NORTH CROSSWALK

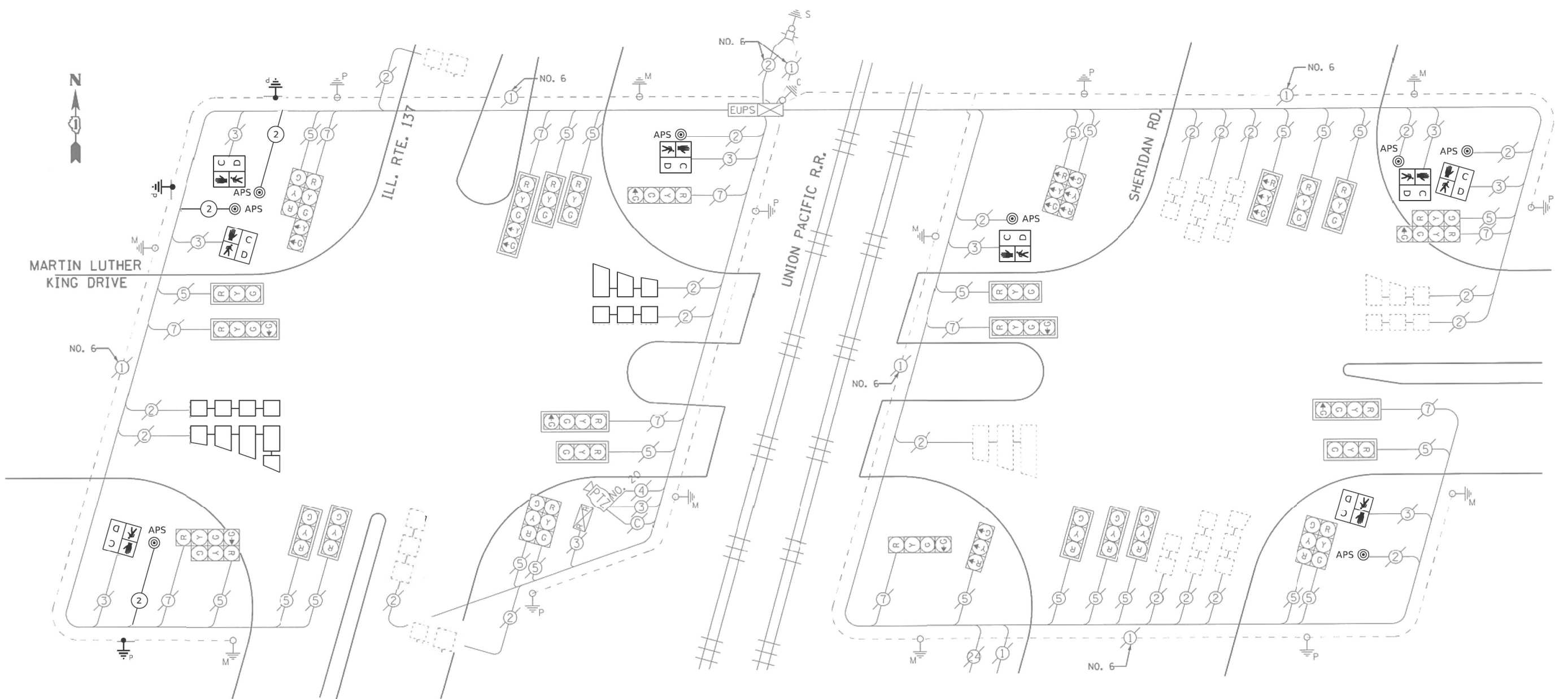


SOUTH WEST CORNER
WEST CROSSWALK



TS SHT NO. 12

MODEL: Detail
 FILE NAME: P102_209_002_IDOT_PTB_173_12_Traffic_Signal_Design\Drawings\W000\Inhouse_Drawing\CADD\CADD_Drawing\62L68_IL_137\MLK.dgn



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	34	11	50	187.0
(YELLOW)	34	20	5	34.0
(GREEN)	42	12	45	266.8
PERMISSIVE ARROW	4	10	10	4
PED. SIGNAL	8	20	100	160
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				886.8

ENERGY COSTS TO:
 CITY OF NORTH CHICAGO
 1850 LEWIS AVE
 NORTH CHICAGO, IL 60064
 ENERGY SUPPLY: CONTACT: TERRI BLECK
 PHONE: (847) 816-5239
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	70
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	562
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	60
DRILL EXISTING HANDHOLE	EACH	3
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
* DETECTOR LOOP, TYPE I	FOOT	1000
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	600
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT.	FOOT	3
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	12

* NOMINAL QUANTITY TO BE USED AS NEEDED WHEN LOOPS DAMAGED BY CURB OR ADA RAMP REMOVAL.

**TS 21085
 LAKE COUNTY CENTRACS
 FORMER ECON 77**

USER NAME = dbennett	DESIGNED - DB	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - DB	REVISED -
PLOT DATE = 2/7/2022	CHECKED - DB	REVISED -
	DATE - 12/21/2021	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM,
 AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
 IL ROUTE 137 (SHERIDAN RD) AT 22ND ST / MARTIN LUTHER KING DR**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2020-090-R5&SW	LAKE	68	32
CONTRACT NO. 62L68				
ILLINOIS FED. AID PROJECT				

NOTE:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

6 EACH PEDESTRIAN PUSH-BUTTON

ALL EXISTING PEDESTRIAN PUSH-BUTTONS SHALL BE REMOVED.

CONTRACTOR SHALL PERFORM SIGNAL WORK IN SUCH A WAY AS TO MINIMIZE THE TIME THE EXISTING PEDESTRIAN EQUIPMENT IS INOPERATIONAL.

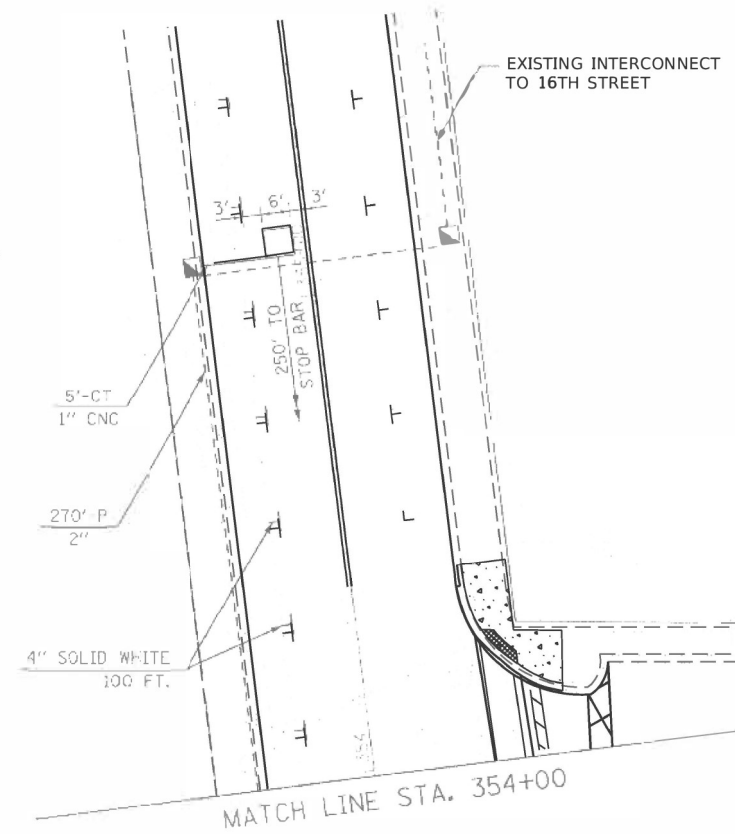
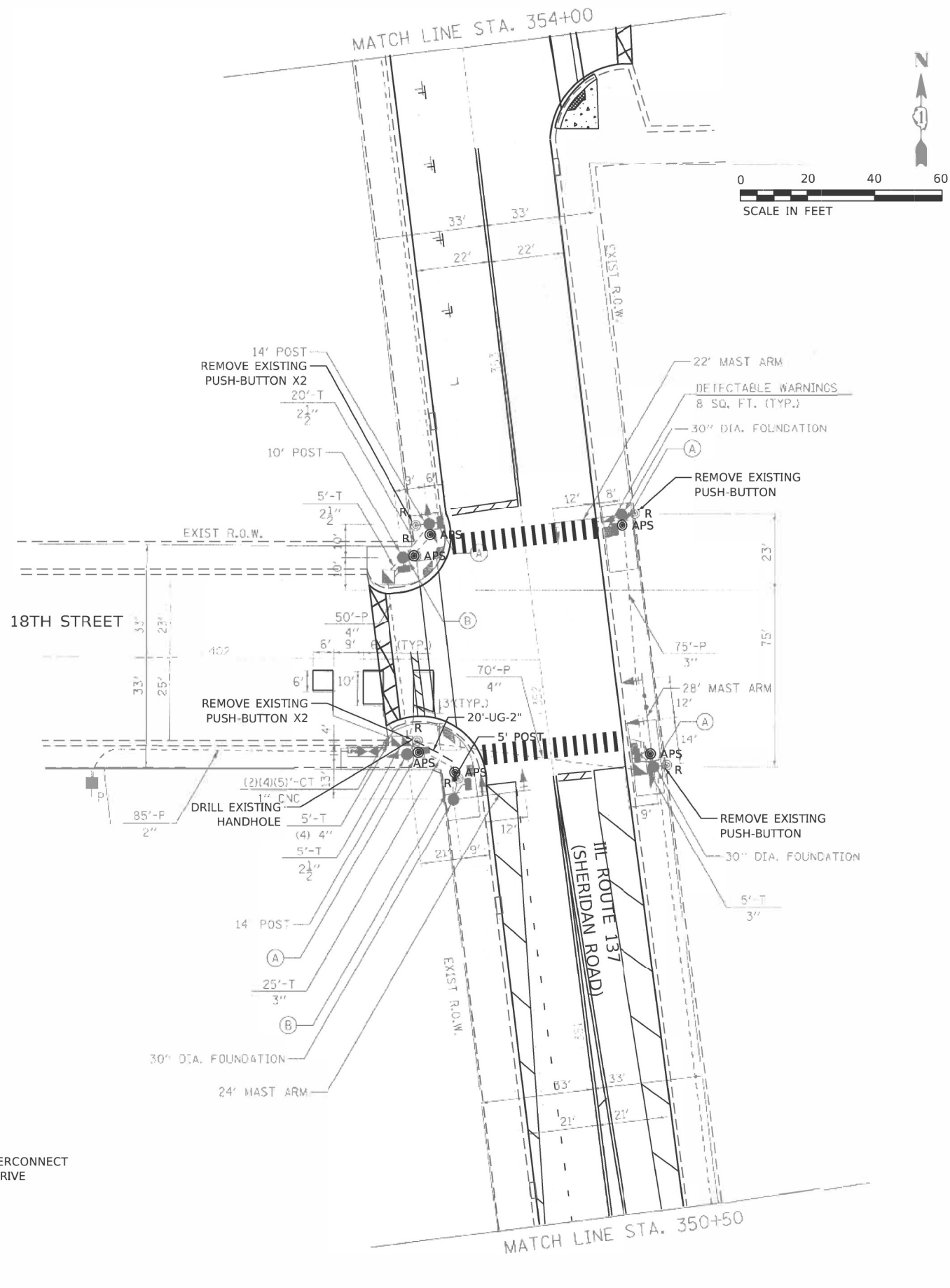
CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT BEFORE INSTALLATION WITH THE TRAFFIC SIGNAL AREA ENGINEER

DIMENSIONS SHOWN ARE FROM CENTER OF POST TO BACK OF CURB AND ARE APPROXIMATE AND PLACEMENT OF THE 5-POST SHALL BE VERIFIED WITH THE ENGINEER PRIOR TO THE START OF WORK.

APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSS WALK

STATIONING SHOWN ON TRAFFIC SIGNAL PLAN ARE FROM RECORD DRAWINGS AND WILL NOT MATCH OTHER PLANS.

WHERE TRAFFIC SIGNAL EQUIPMENT WAS REMOVED THE EXISTING ELECTRICAL CABLE SHALL BE REMOVED FROM CONDUIT



TS SHT NO. 14

MODEL: Detail; FILE NAME: P03_209_003_IDOT_PTB_173_IL_Traffic_Signal_Design\Design\W009-Intersect_Design\CADD\CADD_Drawing\62L68_IL_1371818.dgn

USER NAME = dbennett	DESIGNED = DB	REVISED =
	DRAWN = DB	REVISED =
PLOT SCALE = 40.0000' / 1"	CHECKED = KK	REVISED =
PLOT DATE = 2/1/2022	DATE = 12/14/2021	REVISED =

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

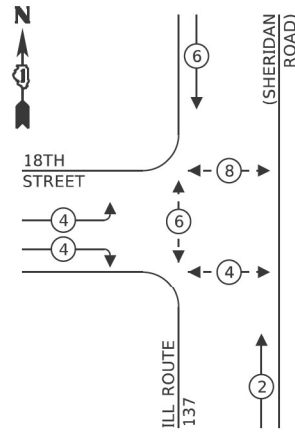
TRAFFIC SIGNAL PLANS
18TH STREET AT ILL ROUTE 137 (SHERIDAN ROAD)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2020-090-R5&SW	LAKE	68	34
CONTRACT NO. 62L68				
ILLINOIS FED. AID PROJECT				

TS 9425
LAKE COUNTY CENTRACS

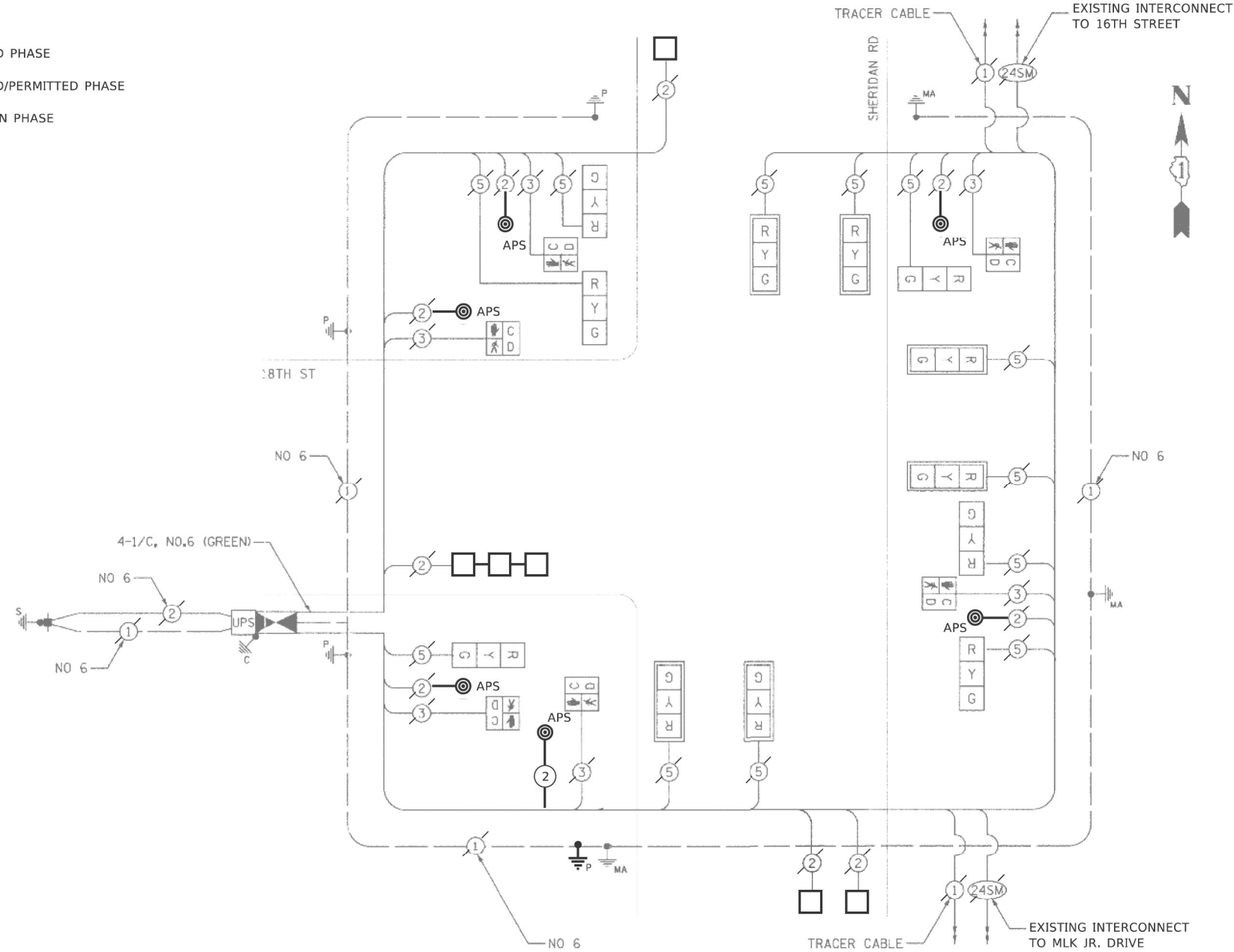
EXISTING CONTROLLER SEQUENCE



LEGEND:

- ← ⊙ ← PROTECTED PHASE
- ← ⊙ → PROTECTED/PERMITTED PHASE
- ← ⊙ → PEDESTRIAN PHASE
- ← ⊙ → OVERLAP

PROPOSED CABLE PLAN



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	6	20	100	120.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				387.8

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: TERRI BLECK
PHONE: (847) 816-5239
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	20
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	55
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	55
DRILL EXISTING HANDHOLE	EACH	1
DETECTOR LOOP, TYPE I	FOOT	205
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	55
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT.	FOOT	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	6
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	4

TS SHT NO. 15

MODEL: Detail; FILE NAME: P103_209_003_IDOT_PTB_173_12_Traffic_Signal_Design\Drawings\WIP\003-Inhouse_Design\CADD\CADD_Drawing\621668_IL_13718th.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
18TH STREET AT ILL ROUTE 137 (SHERIDAN ROAD)**

**TS 9425
LAKE COUNTY CENTRACS**

USER NAME = dbennett	DESIGNED - DB	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - DB	REVISED -
PLOT DATE = 2/7/2022	CHECKED - KK	REVISED -
	DATE - 12/14/2021	REVISED -

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2020-090-R5&SW	LAKE	68	35
CONTRACT NO. 62L68				
ILLINOIS FED. AID PROJECT				

NOTE:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

8 EACH PEDESTRIAN PUSH-BUTTON

ALL EXISTING PEDESTRIAN PUSH-BUTTONS SHALL BE REMOVED.

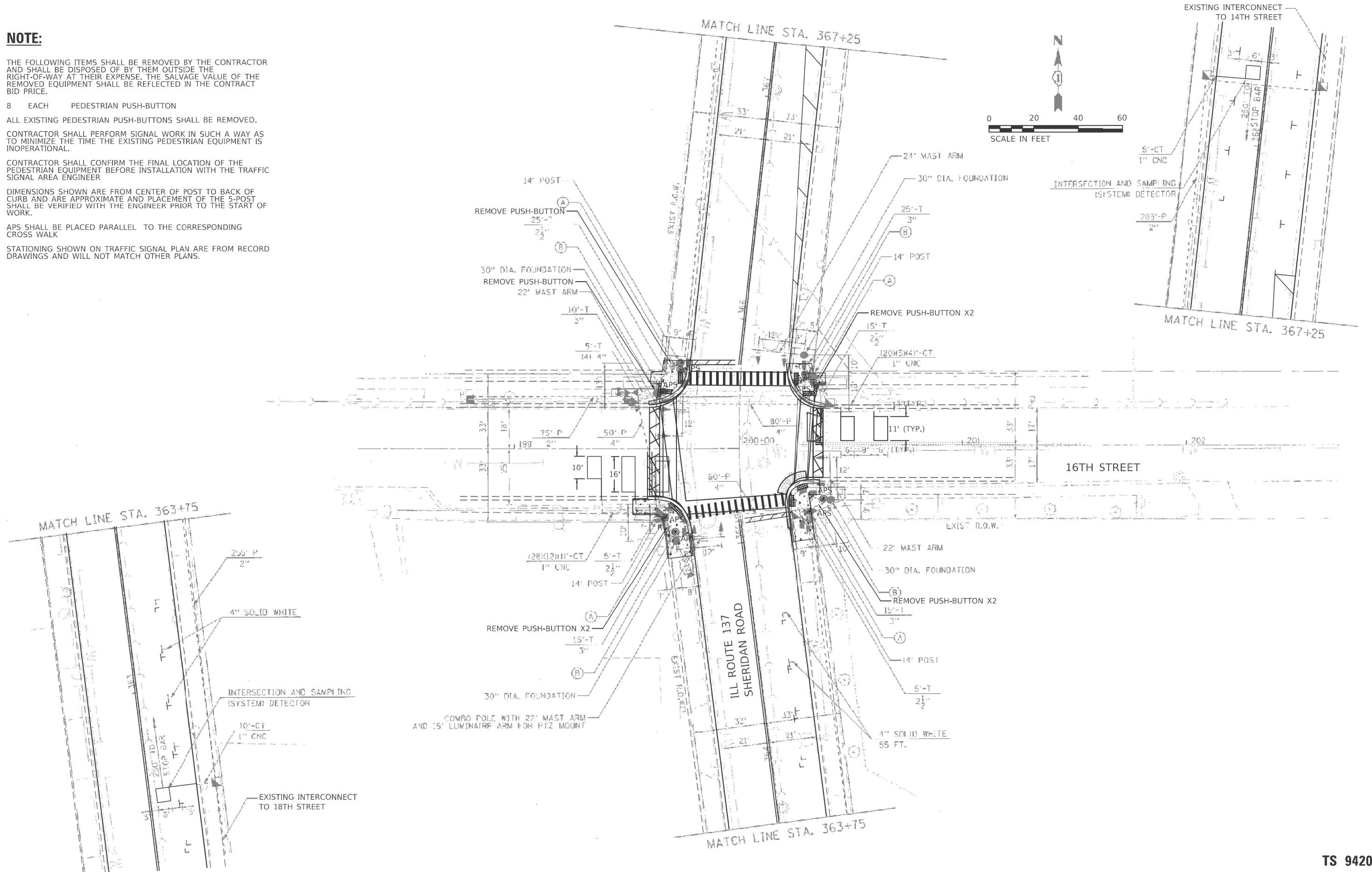
CONTRACTOR SHALL PERFORM SIGNAL WORK IN SUCH A WAY AS TO MINIMIZE THE TIME THE EXISTING PEDESTRIAN EQUIPMENT IS INOPERATIONAL.

CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT BEFORE INSTALLATION WITH THE TRAFFIC SIGNAL AREA ENGINEER

DIMENSIONS SHOWN ARE FROM CENTER OF POST TO BACK OF CURB AND ARE APPROXIMATE AND PLACEMENT OF THE 5-POST SHALL BE VERIFIED WITH THE ENGINEER PRIOR TO THE START OF WORK.

APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSS WALK

STATIONING SHOWN ON TRAFFIC SIGNAL PLAN ARE FROM RECORD DRAWINGS AND WILL NOT MATCH OTHER PLANS.



TS SHT NO. 16

MODEL: Default; FILE NAME: P103_209_003_IDOT_P173_12_Traffic_Signal_Design\W009-Inhouse_Design\CADD\CADD Drawings\62168 IL 13716th Sheridan

USER NAME = dbennett	DESIGNED - DB	REVISED -
	DRAWN - DB	REVISED -
PLOT SCALE = 40.0000' / 1"	CHECKED - KK	REVISED -
PLOT DATE = 2/7/2022	DATE - 12/14/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

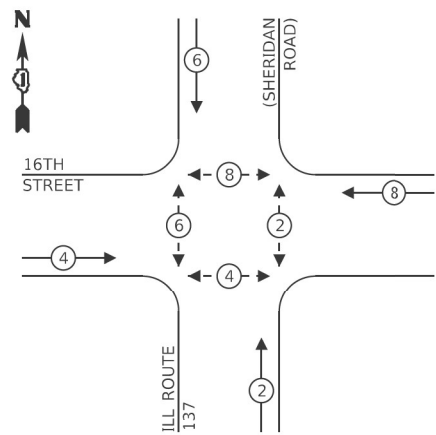
TRAFFIC SIGNAL PLANS
16TH STREET AT ILL ROUTE 137 (SHERIDAN ROAD)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2020-090-R5&SW	LAKE	68	36
CONTRACT NO. 62L68				
ILLINOIS FED. AID PROJECT				

TS 9420
LAKE COUNTY CENTRACS

EXISTING CONTROLLER SEQUENCE



LEGEND:

- ← * → PROTECTED PHASE
- ← * - - * → PROTECTED/PERMITTED PHASE
- ← * → PEDESTRIAN PHASE
- ← * → OL OVERLAP

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
DETECTOR LOOP, TYPE I	FOOT	270
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8

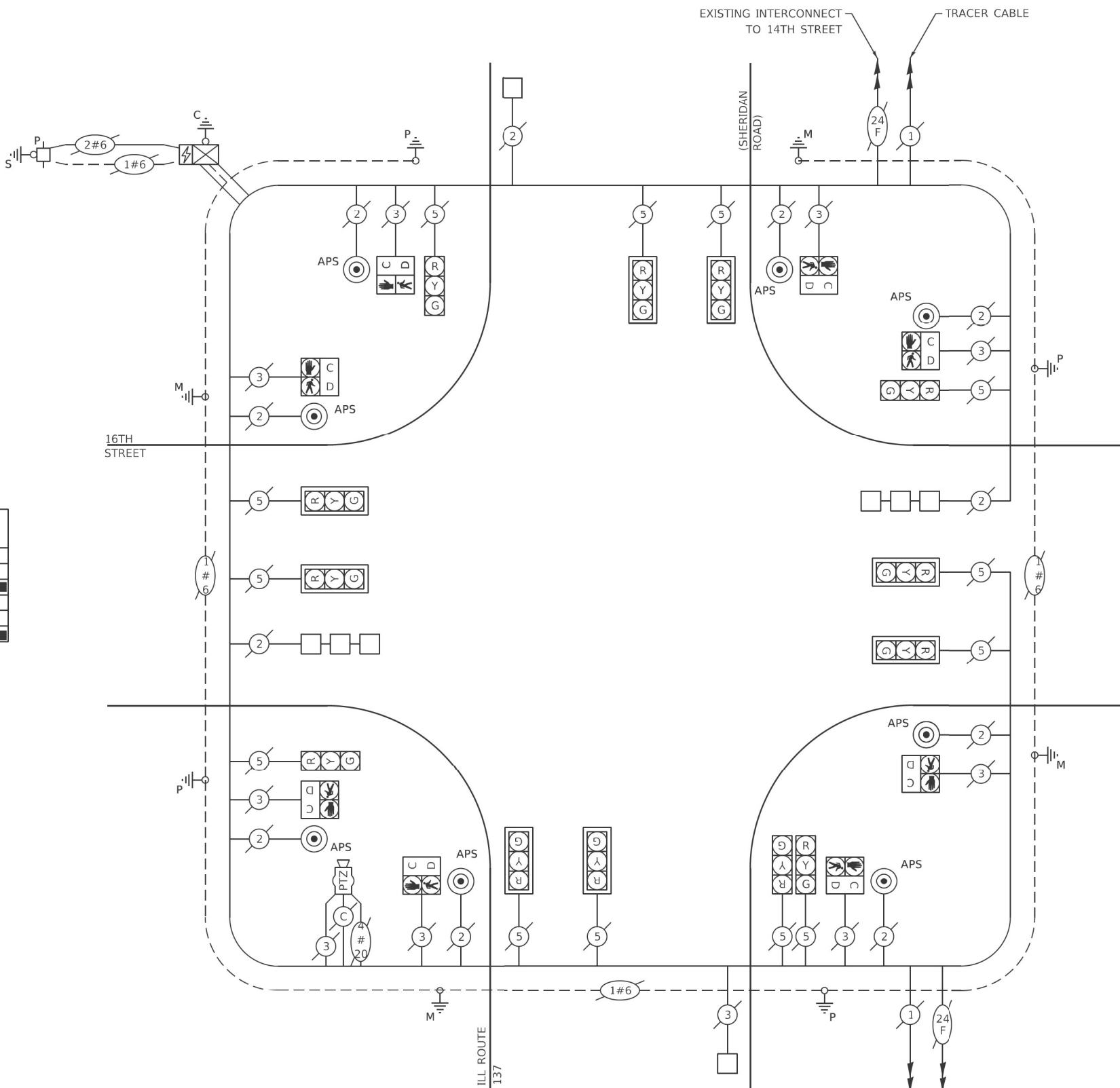
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	13	11	50	71.5
(YELLOW)	13	20	5	13.0
(GREEN)	13	12	45	11.7
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				381.2

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: TERRI BLECK
PHONE: (847) 816-5239
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---



CABLE PLAN
(NOT TO SCALE)

TS SHT NO. 17

MODEL: Detail; FILE NAME: P:\209_003_IDOT_PTB_173_12_Traffic_Signal_Design\Drawings\W000-Inhouse_Design\CADD\CADD Drawings\62168_IL_13716th_Sig.dgn

USER NAME = dbennett	DESIGNED - DB	REVISED -
PLOT SCALE = 40.0000' / ft.	DRAWN - DB	REVISED -
PLOT DATE = 2/7/2022	CHECKED - KK	REVISED -
	DATE - 12/14/2021	REVISED -

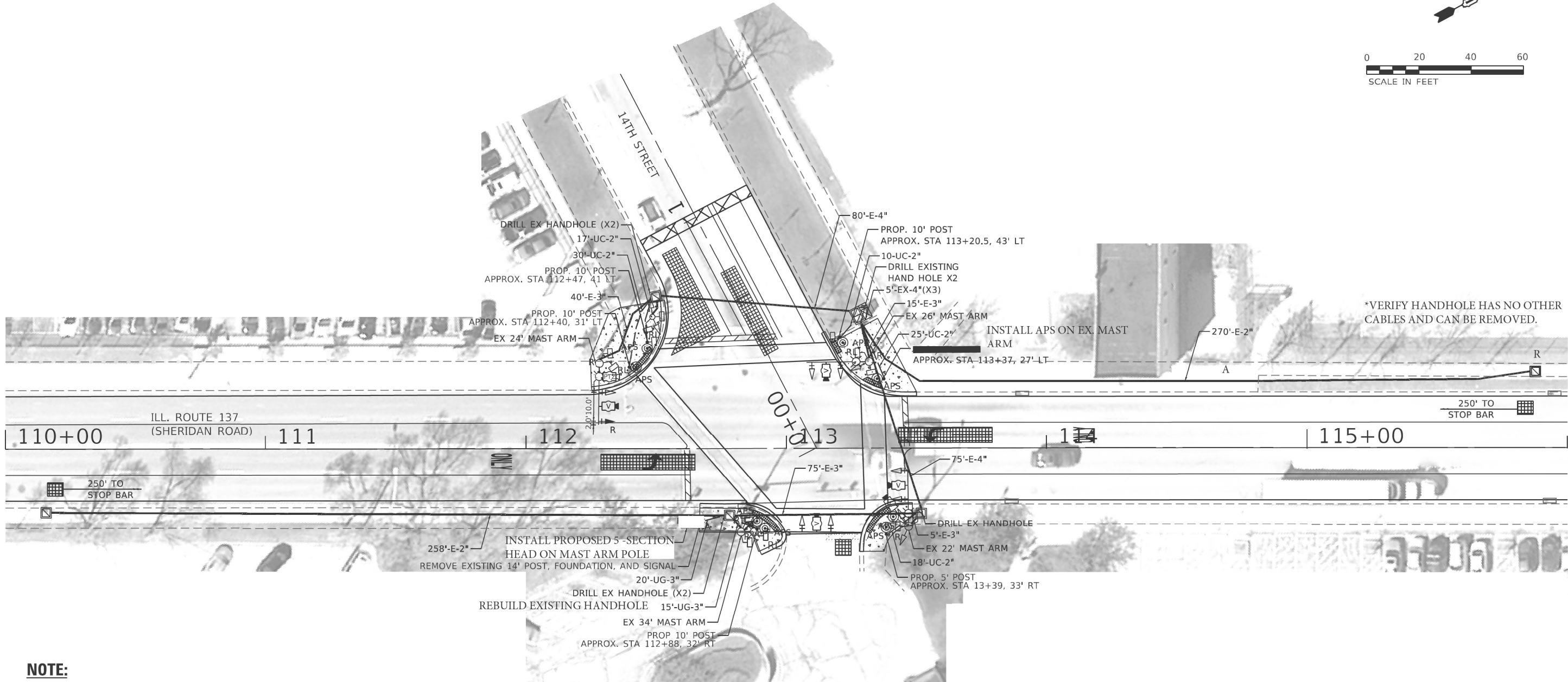
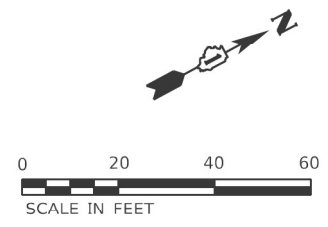
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
APS

**CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
16TH STREET AT ILL ROUTE 137 (SHERIDAN ROAD)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2020-090-R5&SW	LAKE	68	37
CONTRACT NO. 62L68				
ILLINOIS FED. AID PROJECT				

TS 9420
LAKE COUNTY CENTRACS



NOTE:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 4 EACH PEDESTRIAN PUSH-BUTTON
- 1 EACH 14' POST
- 1 EACH BRACKET MOUNTED SIGNAL HEAD
- 1 EACH MAST ARM MOUNTED SIGNAL HEAD

ALL EXISTING PEDESTRIAN PUSH-BUTTONS SHALL BE REMOVED.

CONTRACTOR SHALL PERFORM SIGNAL WORK IN SUCH A WAY AS TO MINIMIZE THE TIME THE EXISTING PEDESTRIAN EQUIPMENT IS INOPERATIONAL.

CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT BEFORE INSTALLATION WITH THE TRAFFIC SIGNAL AREA ENGINEER

DIMENSIONS SHOWN ARE FROM CENTER OF POST TO BACK OF CURB AND ARE APPROXIMATE AND PLACEMENT OF THE 5-POST SHALL BE VERIFIED WITH THE ENGINEER PRIOR TO THE START OF WORK.

APS SHALL BE PLACED PARELLEL TO THE CORRESPONDING CROSS WALK

WHERE TRAFFIC SIGNAL EQUIPMENT WAS REMOVED THE EXISTING ELECTRICAL CABLE SHALL BE REMOVED FROM CONDUIT

TS SHT NO. 18

MODEL: Default; FILE NAME: P103_209_003_IDOT_PTB_173_12_Traffic_Signal_Design\W009-Inhouse_Design\CADD\CADD Drawings\62168_IL_13714_Street.dgn

**TS 9415
LAKE COUNTY CENTRACS**

USER NAME = dbennett	DESIGNED - DB	REVISED -
	DRAWN - DB	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - DB	REVISED -
PLOT DATE = 2/7/2022	DATE - 02/04/2022	REVISED -

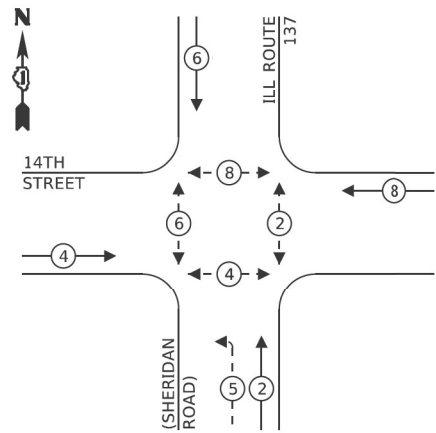
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL PLAN
14TH STREET AT ILL. ROUTE 137 (SHERIDAN ROAD)**

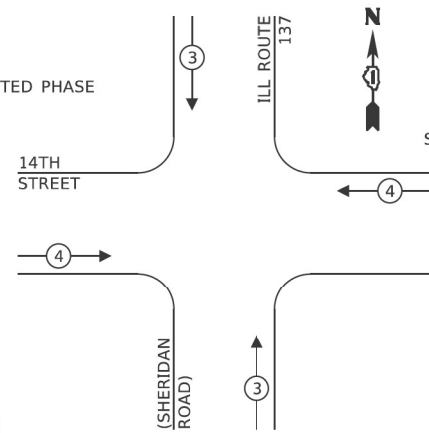
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2020-090-R5&SW	LAKE	68	38
CONTRACT NO. 62168				
ILLINOIS FED. AID PROJECT				

EXISTING CONTROLLER SEQUENCE



EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

- ← * → PROTECTED PHASE
- ← * - - → PROTECTED/PERMITTED PHASE
- ← * → PEDESTRIAN PHASE
- ← * → OL OVERLAP

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	120
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	910
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	770
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	430
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	225
DRILL EXISTING HANDHOLE	EACH	6
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	5
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2110
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	4
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	4
PEDESTRIAN SIGNAL POST, 5 FT.	FOOT	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	20
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1
REMOVE EXISTING HANDHOLE	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	1
REBUILD EXISTING HANDHOLE	EACH	1

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

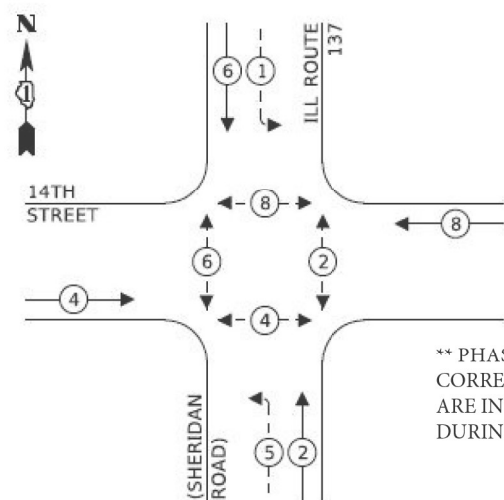
TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	13	11	50	71.5
(YELLOW)	13	20	5	13.0
(GREEN)	13	12	45	70.2
PERMISSIVE ARROW	8	10	10	8.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				597.7

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096

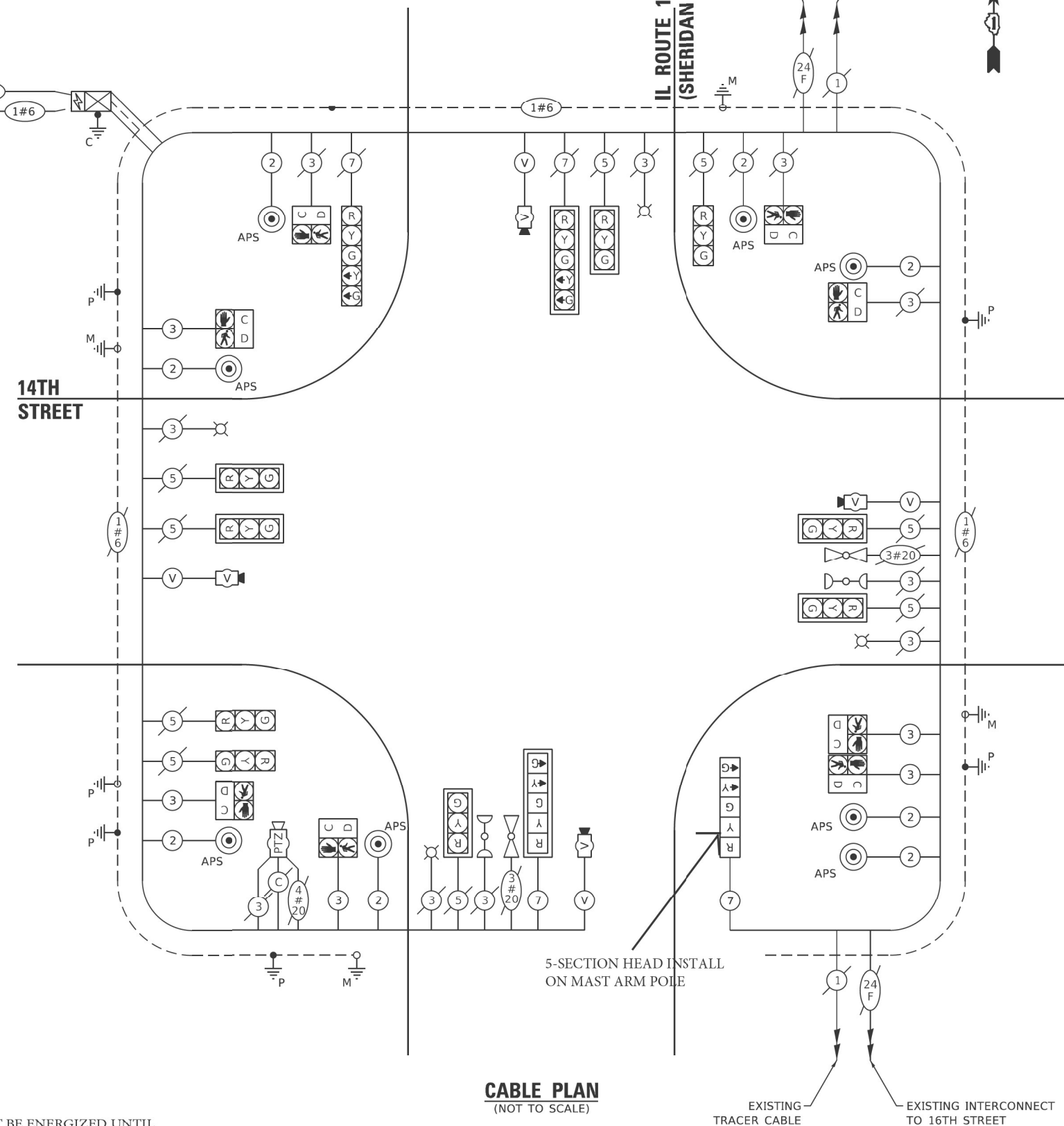
ENERGY SUPPLY: CONTACT: TERRY BLECK
PHONE: (847) 816-5239
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---

PROPOSED CONTROLLER SEQUENCE



** PHASE 1 SHALL NOT BE ENERGIZED UNTIL CORRESPONDING PAVEMENT MARKINGS ARE IN PLACE. PHASE 1 SHALL BE BAGGED DURING CONSTRUCTION.

14TH STREET



CABLE PLAN (NOT TO SCALE)

TS SHT NO. 19

MODEL: D:\sht\19_209_003_IDOT_PTB_173_12_Traffic_Signal_Design\Drawings\Drawings\14th_Sig.dwg FILE NAME: P103_209_003_IDOT_PTB_173_12_Traffic_Signal_Design\Drawings\Drawings\14th_Sig.dwg

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
14TH STREET AT ILL. ROUTE 137 (SHERIDAN ROAD)

TS 9415
LAKE COUNTY CENTRACS

USER NAME = dbennett	DESIGNED - DB	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - DB	REVISED -
PLOT DATE = 2/7/2022	CHECKED - KK	REVISED -
	DATE - 12/21/2021	REVISED -

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2020-090-R5&SW	LAKE	68	39
CONTRACT NO. 64L68				
ILLINOIS FED. AID PROJECT				

NOTE:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

4 EACH PEDESTRIAN PUSH-BUTTON

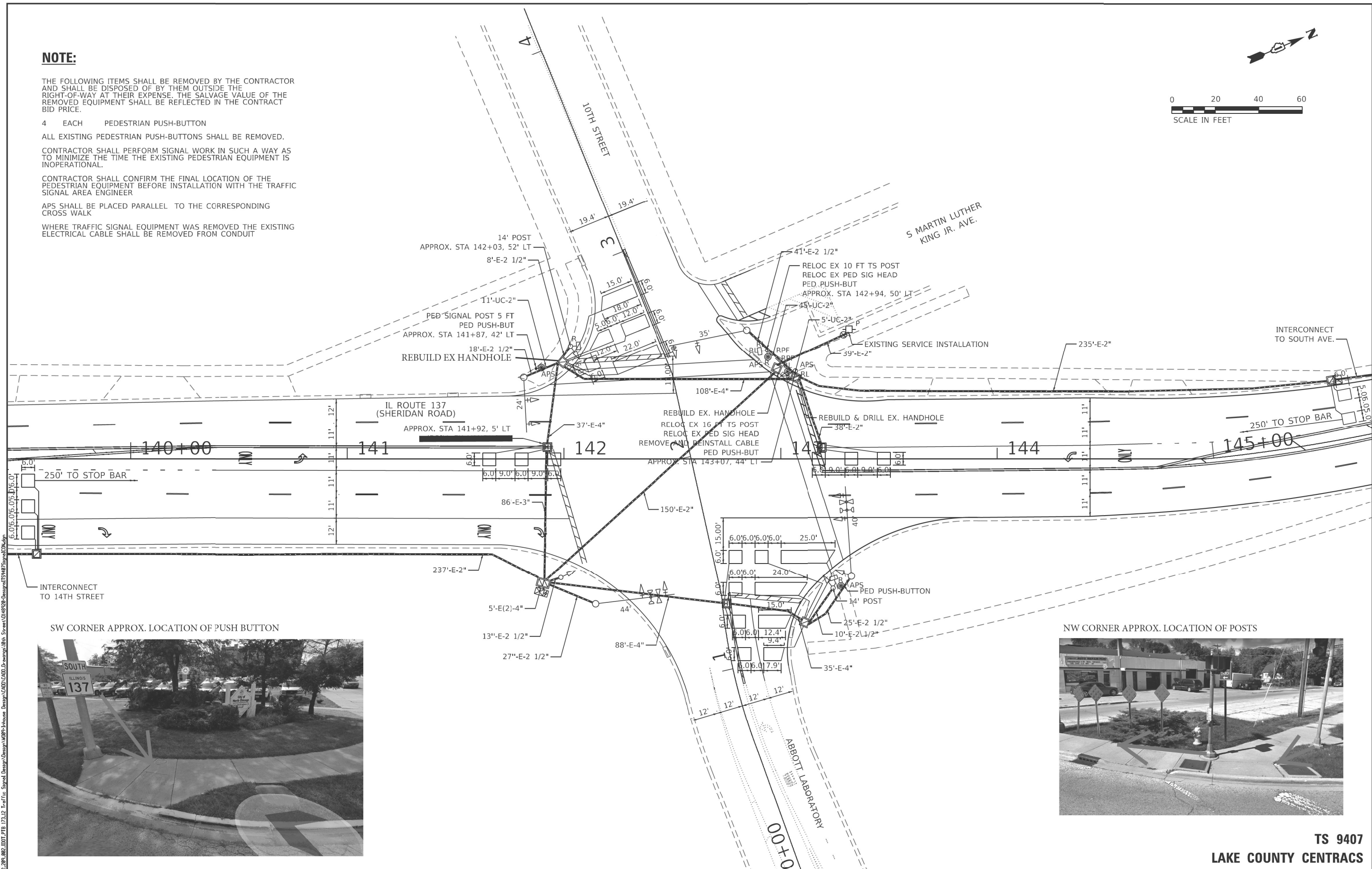
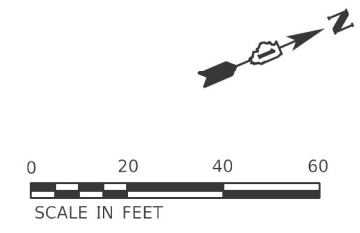
ALL EXISTING PEDESTRIAN PUSH-BUTTONS SHALL BE REMOVED.

CONTRACTOR SHALL PERFORM SIGNAL WORK IN SUCH A WAY AS TO MINIMIZE THE TIME THE EXISTING PEDESTRIAN EQUIPMENT IS INOPERATIONAL.

CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT BEFORE INSTALLATION WITH THE TRAFFIC SIGNAL AREA ENGINEER

APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSS WALK

WHERE TRAFFIC SIGNAL EQUIPMENT WAS REMOVED THE EXISTING ELECTRICAL CABLE SHALL BE REMOVED FROM CONDUIT



SW CORNER APPROX. LOCATION OF PUSH BUTTON



NW CORNER APPROX. LOCATION OF POSTS



TS SHT NO. 20

MODEL: D:\proj\2022_09_02_1001_P18_17212_Traffic_Signal_Design\Design\1001_P18_17212_Signal\1001_P18_17212_Signal.dwg
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 USER: dbennett
 DESIGNER: dbennett
 CHECKER: kk
 DATE: 10/26/2021

USER NAME=dbennett	DESIGNED - DB	REVISED -
DRAWN - DB	REVISED -	
PLOT SCALE=40.0000 sf / in.	CHECKED - KK	REVISED -
PLOT DATE = 2/7/2022	DATE - 10/26/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

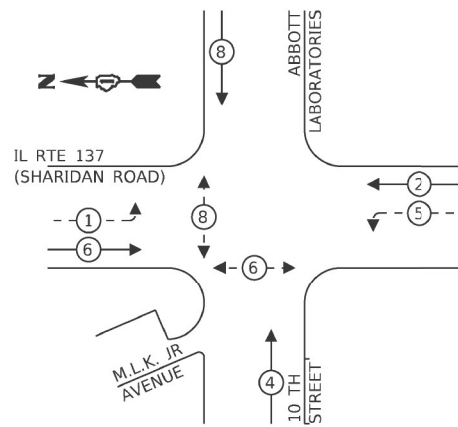
**TRAFFIC SIGNAL PLAN
IL RTE 137 AT 10TH STREET**

SCALE: SHEET OF SHEETS STA. TO STA.

FA. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2020-090-R5&W5	LAKE	68	40
CONTRACT NO. 62L68				
ILLINOIS FED. AID PROJECT				

**TS 9407
LAKE COUNTY CENTRACS**

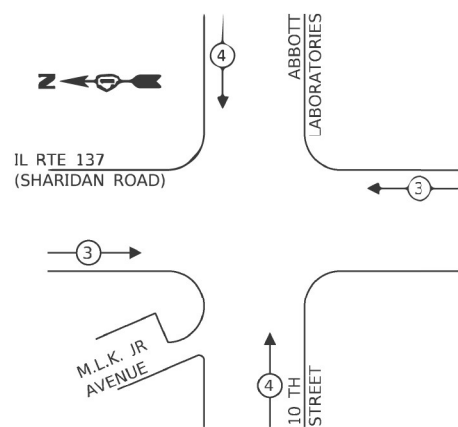
CONTROLLER SEQUENCE



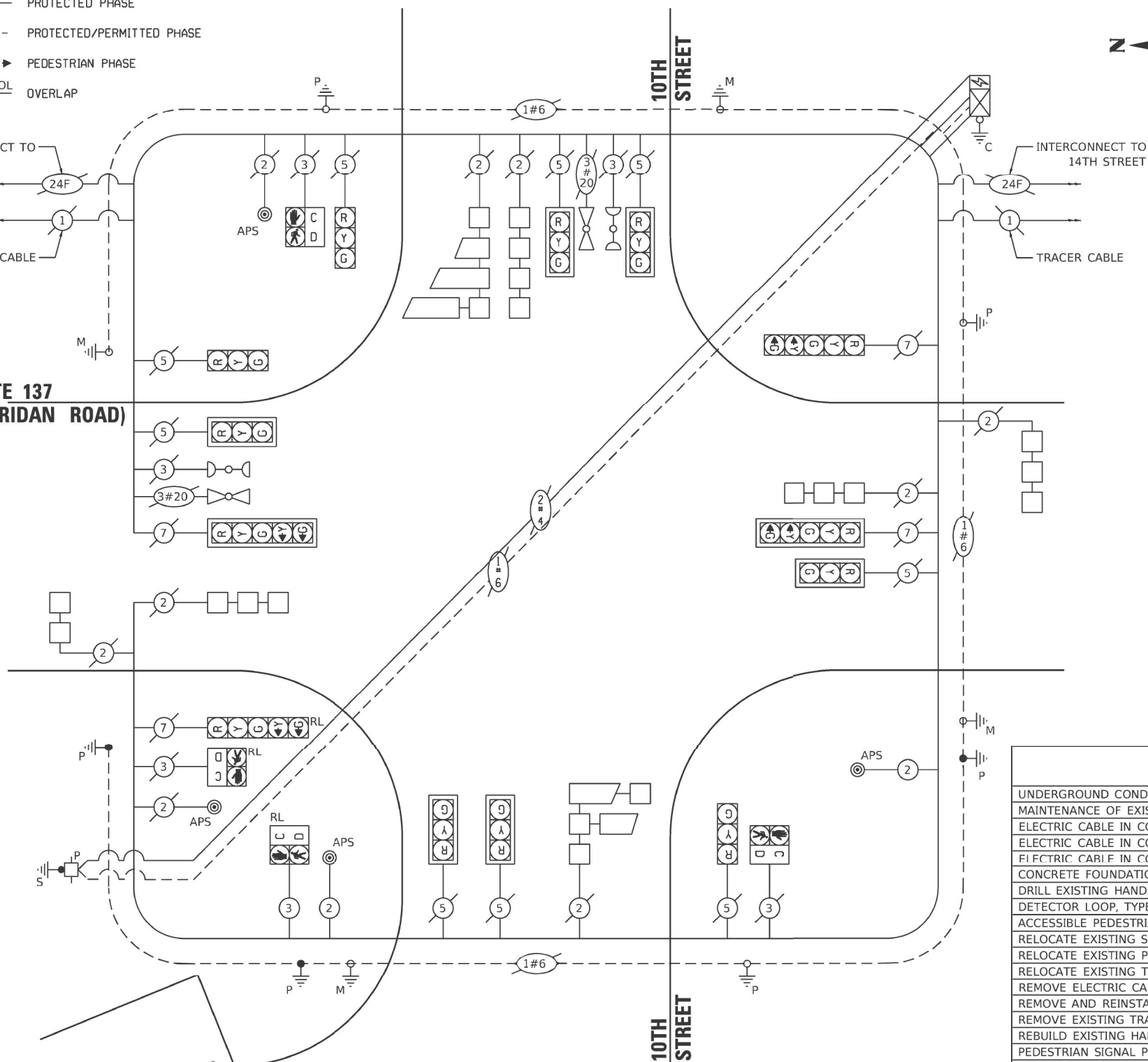
LEGEND:

- ← * → PROTECTED PHASE
- ← - * - → PROTECTED/PERMITTED PHASE
- ← * → PEDESTRIAN PHASE
- ← * → OL OVERLAP

EMERGENCY VEHICLE PREEMPTION SEQUENCE



IL RTE 137 (SHARIDAN ROAD)



CABLE PLAN
(NOT TO SCALE)

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	55
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	480
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	300
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	100
CONCRETE FOUNDATION, TYPE A	FOOT	8
DRILL EXISTING HANDHOLE	EACH	3
DETECTOR LOOP, TYPE I	FOOT	1200
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
RELOCATE EXISTING SIGNAL HEAD	EACH	1
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	2
RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	2
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	780
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	40
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REBUILD EXISTING HANDHOLE	EACH	3
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	2
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	4
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	13	11	50	71.5
(YELLOW)	13	20	5	13
(GREEN)	13	12	45	70.2
PERMISSIVE ARROW	8	10	10	8.0
PED. SIGNAL	4	20	100	80.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				367.7

ENERGY COSTS TO:

CITY OF NORTH CHICAGO
1850 LEWIS AVE
NORTH CHICAGO, IL 60064

ENERGY SUPPLY: CONTACT: TERRI BLACK
PHONE: 847-816-5239
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---

MARTIN LUTHER KING JR AVENUE

TS SHT NO. 21

MODEL: D:\p\aut\... FILE NAMES: P:\2020_090_002_1001_P18_17312_Traffic_Signal_CablePlan.dwg

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	DRAWN - DB	REVISED -
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PLOT DATE = 2/7/2022	DATE - 10/26/2021	REVISED -

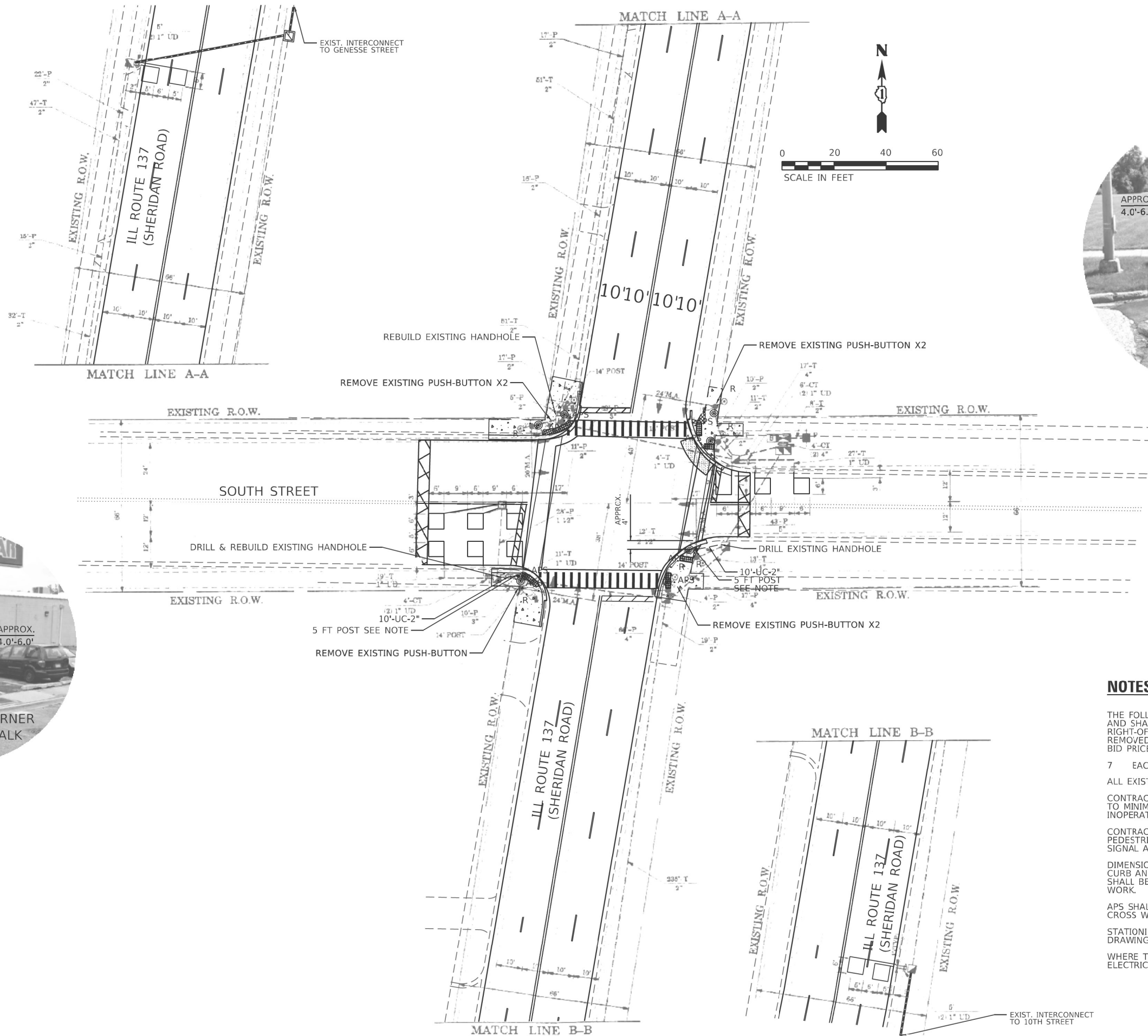
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL RTE 137 AND 10TH ST**

SCALE: SHEET OF SHEETS STA. TO STA.

FA. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2020-090-R5&W5	LAKE	68	41
CONTRACT NO. 62L68				
ILLINOIS FED. AID PROJECT				

**TS 9407
LAKE COUNTY CENTRACS**



NOTES:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

7 EACH PEDESTRIAN PUSH-BUTTON

ALL EXISTING PEDESTRIAN PUSH-BUTTONS SHALL BE REMOVED.

CONTRACTOR SHALL PERFORM SIGNAL WORK IN SUCH A WAY AS TO MINIMIZE THE TIME THE EXISTING PEDESTRIAN EQUIPMENT IS INOPERATIONAL.

CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT BEFORE INSTALLATION WITH THE TRAFFIC SIGNAL AREA ENGINEER

DIMENSIONS SHOWN ARE FROM CENTER OF POST TO BACK OF CURB AND ARE APPROXIMATE AND PLACEMENT OF THE 5-POST SHALL BE VERIFIED WITH THE ENGINEER PRIOR TO THE START OF WORK.

APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSS WALK

STATIONING SHOWN ON TRAFFIC SIGNAL PLAN ARE FROM RECORD DRAWINGS AND WILL NOT MATCH OTHER PLANS.

WHERE TRAFFIC SIGNAL EQUIPMENT WAS REMOVED THE EXISTING ELECTRICAL CABLE SHALL BE REMOVED FROM CONDUIT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLANS
SOUTH STREET AT ILL ROUTE 137 (SHERIDAN ROAD)

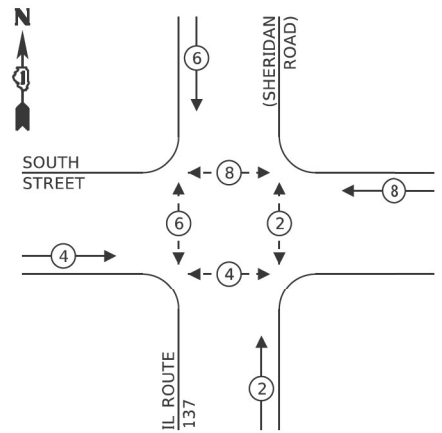
TS 15030
LAKE COUNTY CENTRACS

USER NAME = dbennett	DESIGNED - DB	REVISED -
	DRAWN - DB	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - KK	REVISED -
PLOT DATE = 2/7/2022	DATE - 12/14/2021	REVISED -

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2020-090-R5&SW	LAKE	68	42
CONTRACT NO. 62L68				
ILLINOIS FED. AID PROJECT				

EXISTING CONTROLLER SEQUENCE



LEGEND:

- ← * → PROTECTED PHASE
- ← - * - → PROTECTED/PERMITTED PHASE
- ← * → PEDESTRIAN PHASE
- ← OL → OVERLAP

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	20
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	245
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	105
DRILL EXISTING HANDHOLE	EACH	2
DETECTOR LOOP, TYPE I	FOOT	500
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	90
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REBUILD EXISTING HANDHOLE	EACH	2
PEDESTRIAN SIGNAL POST, 5 FT.	FOOT	2
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	8
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

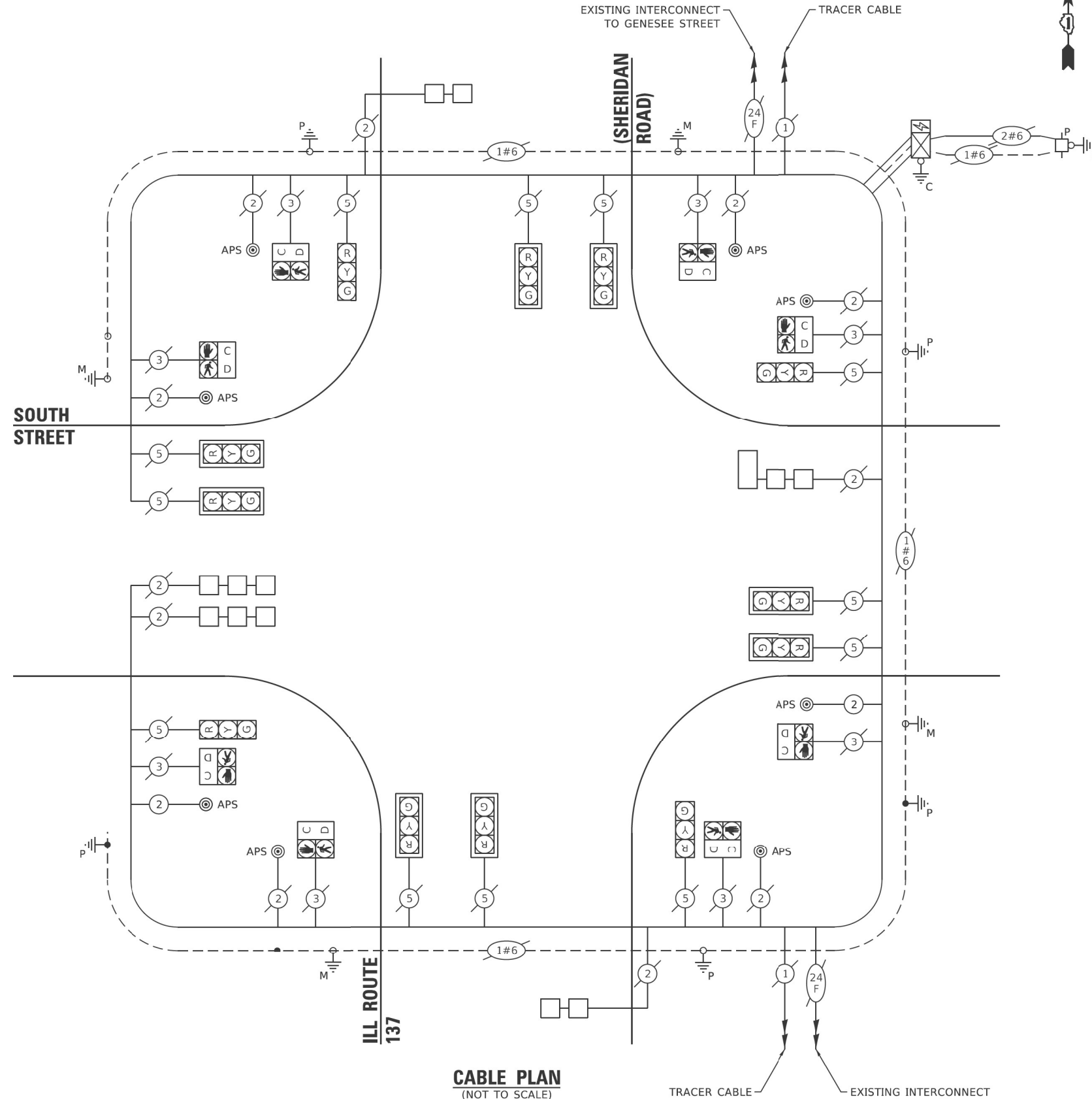
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	-	10	10	0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				427.8

ENERGY COSTS TO:

CITY OF WAUKEGAN

ENERGY SUPPLY: CONTACT: TERRI BLECK
 PHONE: (847) 816-5239
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---



CABLE PLAN
(NOT TO SCALE)

TS SHT NO. 23

MODEL: Detail; FILE NAME: P:\03_209_003_IDOT_PTB_173_12_Traffic_Signal_Design\Drawings\W000-Inches_Doc\Drawings\CADD\Drawings\62168_IL_137\South_1.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
SOUTH STREET AT ILL ROUTE 137 (SHERIDAN ROAD)**

**TS 15030
LAKE COUNTY CENTRACS**

USER NAME	= dbennett	DESIGNED	- DB	REVISED	
DRAWN	- DB	CHECKED	- KK	REVISED	
PLOT SCALE	= 40.0000' / in.	DATE	- 12/14/2021	REVISED	
PLOT DATE	= 2/7/2022				

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2020-090-R5&SW	LAKE	68	43
CONTRACT NO. 62L68				
ILLINOIS FED. AID PROJECT				

NOTE:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

3 EACH PEDESTRIAN PUSH-BUTTON

ALL EXISTING PEDESTRIAN PUSH-BUTTONS SHALL BE REMOVED.

CONTRACTOR SHALL PERFORM SIGNAL WORK IN SUCH A WAY AS TO MINIMIZE THE TIME THE EXISTING PEDESTRIAN EQUIPMENT IS INOPERATIONAL.

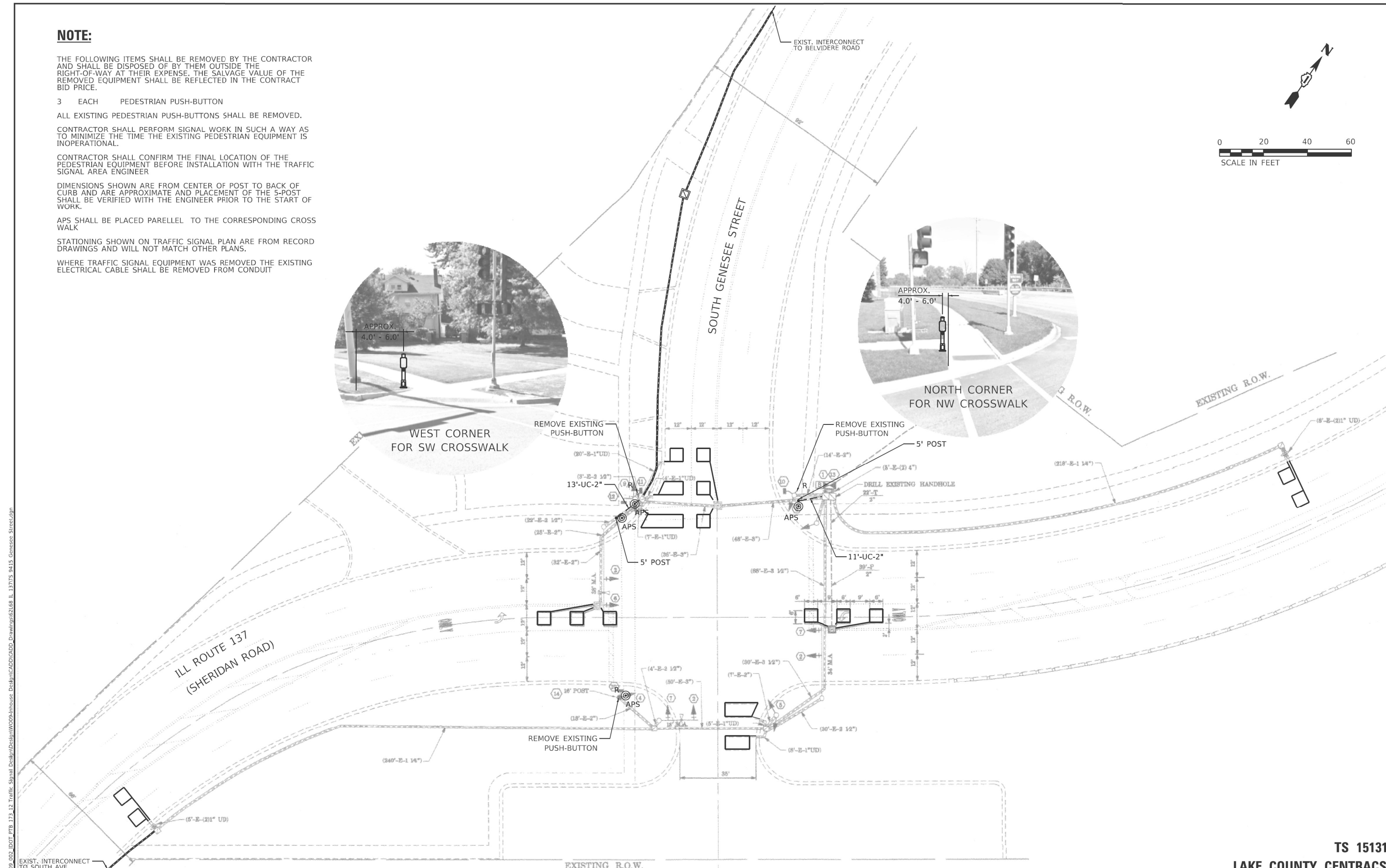
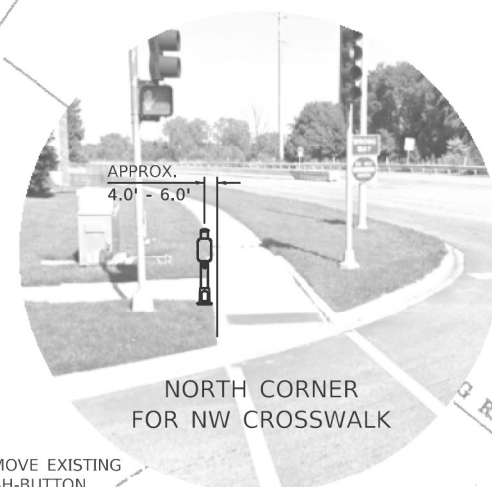
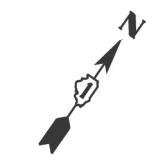
CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT BEFORE INSTALLATION WITH THE TRAFFIC SIGNAL AREA ENGINEER

DIMENSIONS SHOWN ARE FROM CENTER OF POST TO BACK OF CURB AND ARE APPROXIMATE AND PLACEMENT OF THE 5-POST SHALL BE VERIFIED WITH THE ENGINEER PRIOR TO THE START OF WORK.

APS SHALL BE PLACED PARELLEL TO THE CORRESPONDING CROSS WALK

STATIONING SHOWN ON TRAFFIC SIGNAL PLAN ARE FROM RECORD DRAWINGS AND WILL NOT MATCH OTHER PLANS.

WHERE TRAFFIC SIGNAL EQUIPMENT WAS REMOVED THE EXISTING ELECTRICAL CABLE SHALL BE REMOVED FROM CONDUIT



TS SHT NO. 24

MODEL: Default; FILE NAME: P:\20_003_IDOT_PTB_173_12 Traffic Signal Design\W009-Inhouse Design\CADD\CADD Drawings\62168 IL 137\TS 1513 Genesee Street.dgn

**TS 15131
LAKE COUNTY CENTRACS**

USER NAME = dbennett	DESIGNED - DB	REVISED -
DRAWN - DB	REVISED -	
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PLOT DATE = 2/7/2022	DATE - 12/14/2021	REVISED -

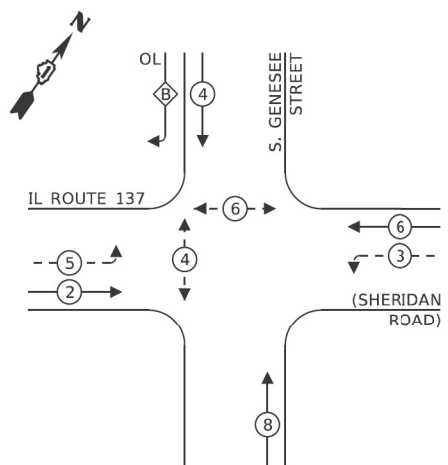
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL PLAN
GENESEE STREET AT IL 137 (SHERIDAN ROAD)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2020-090-R5&SW	LAKE	68	44
CONTRACT NO. 62L68				
ILLINOIS FED. AID PROJECT				

EXISTING CONTROLLER SEQUENCE



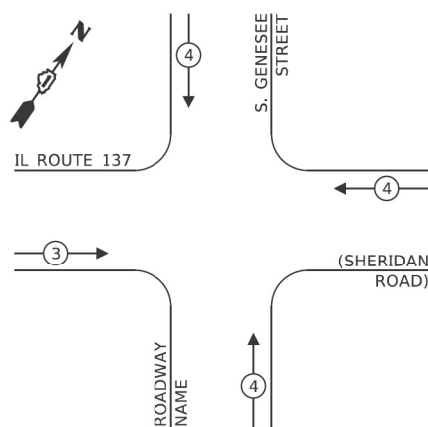
LEGEND:

- ← * → PROTECTED PHASE
- ← - * - → PROTECTED/PERMITTED PHASE
- ← * → PEDESTRIAN PHASE
- ← OL → OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4	+ 5

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	24
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	200
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	40
DRILL EXISTING HANDHOLE	EACH	2
DETECTOR LOOP, TYPE I	FOOT	725
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	45
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT.	FOOT	2
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	8
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	13	11	50	71.5
(YELLOW)	13	20	5	13
(GREEN)	13	12	45	70.2
PERMISSIVE ARROW	12	10	10	12.0
PED. SIGNAL	8	20	100	80
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				371.7

ENERGY COSTS TO:

CITY OF WAUKEGAN

ENERGY SUPPLY: CONTACT: TERRI BLECK
 PHONE: (847) 816-5239
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---

TS SHT NO. 25

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PLOT DATE = 2/7/2022	CHECKED - KK	REVISED -
	DATE - 12/14/2021	REVISED -

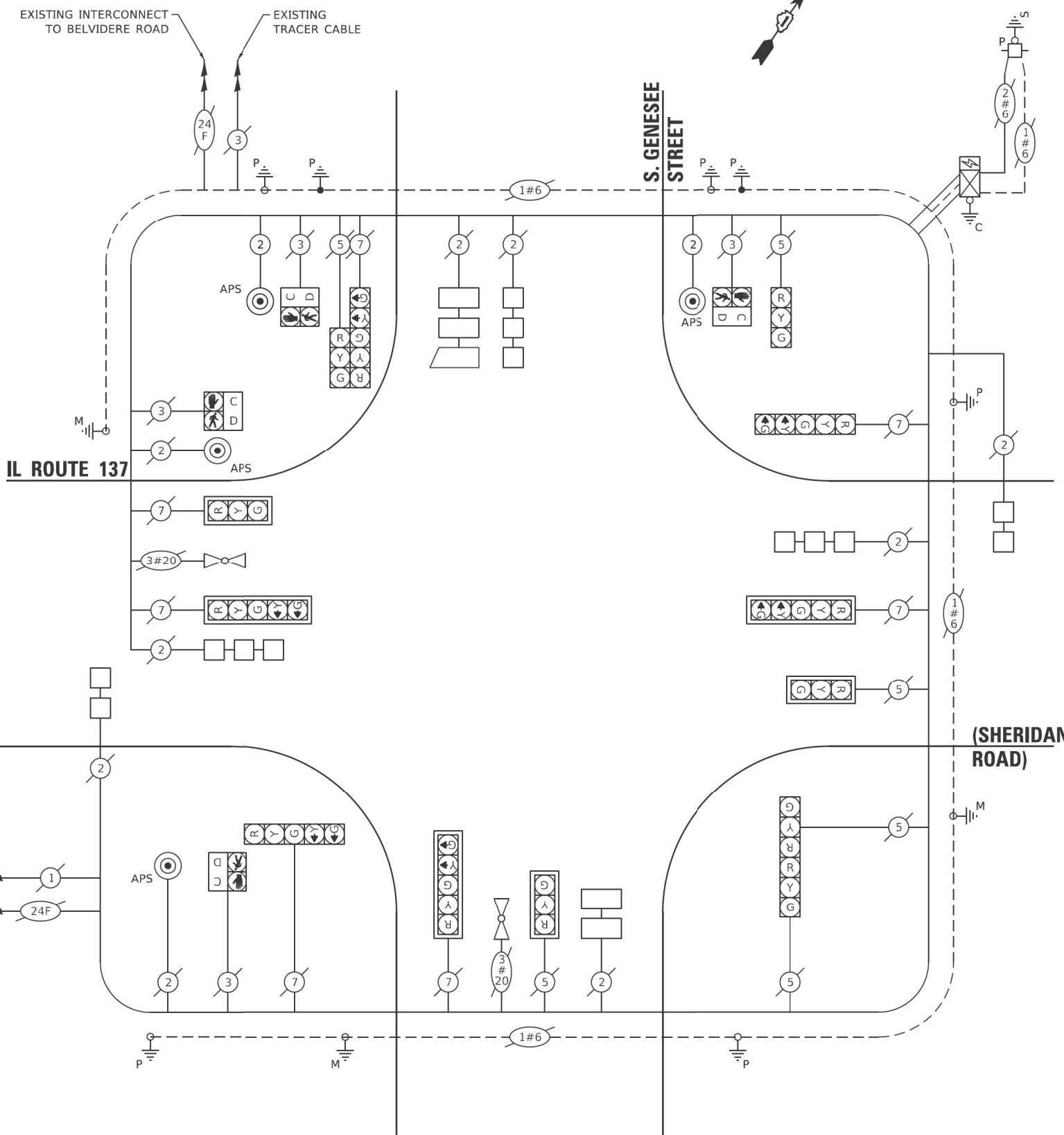
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
GENESEE STREET AT IL 137 (SHERIDAN ROAD)

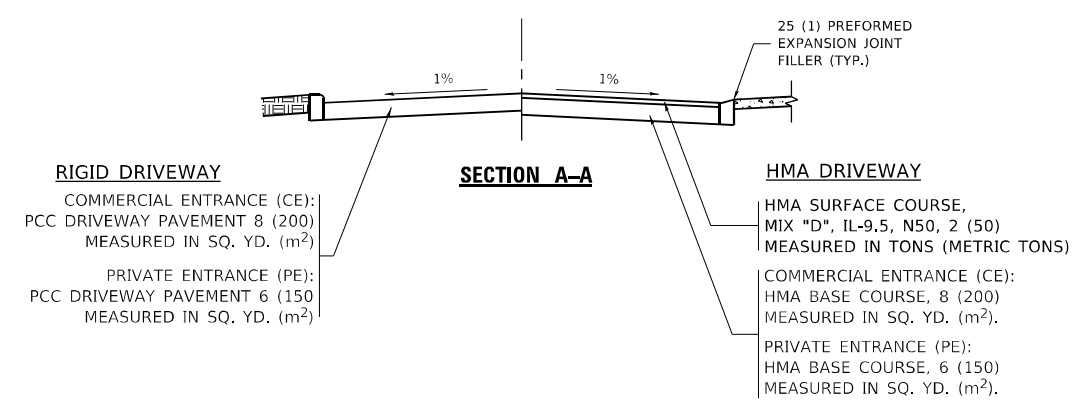
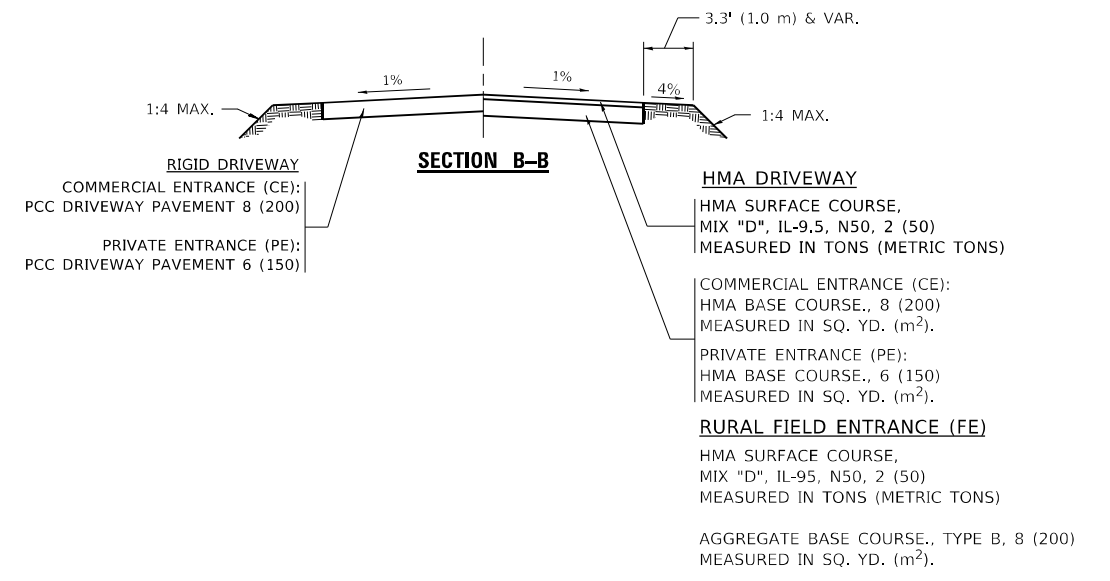
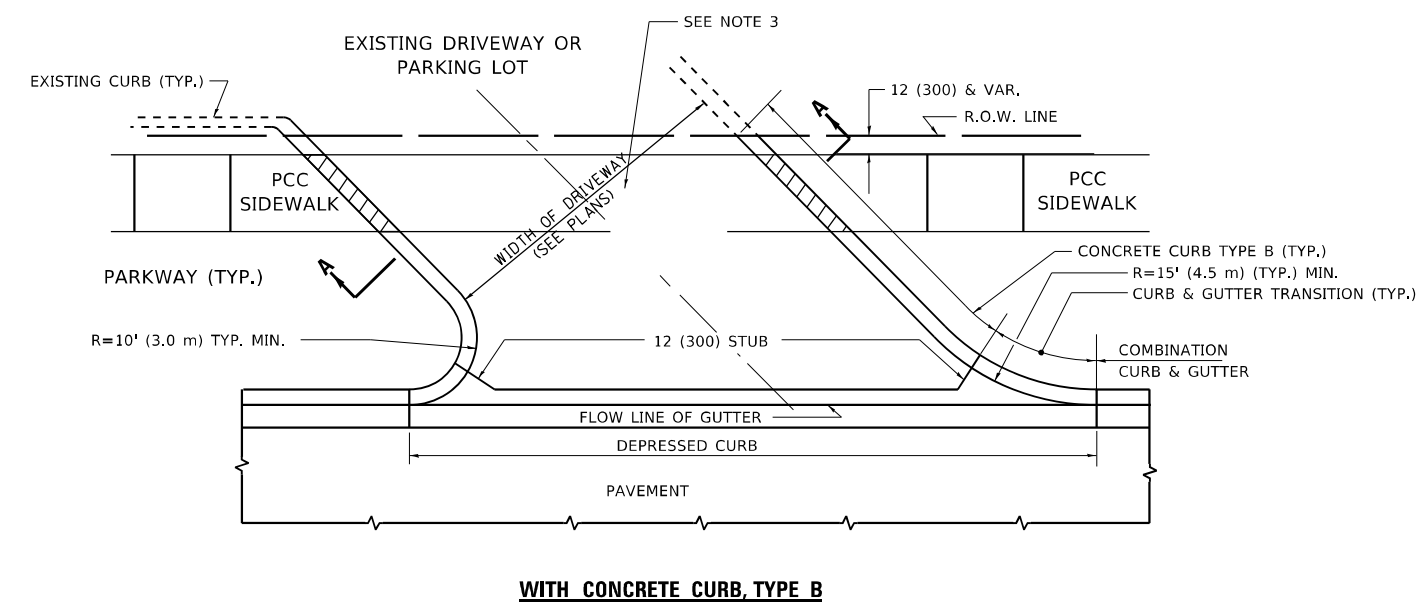
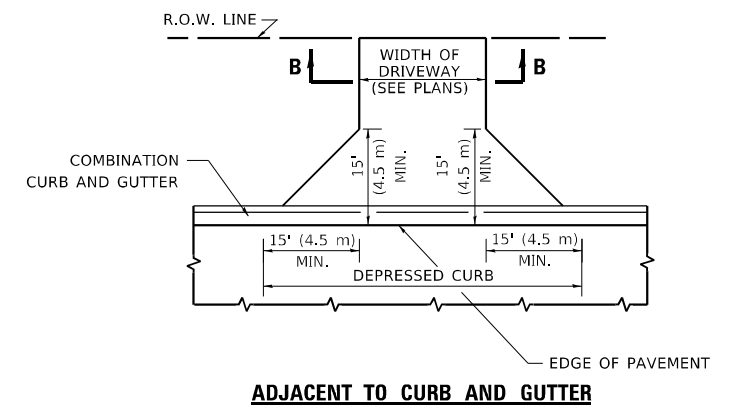
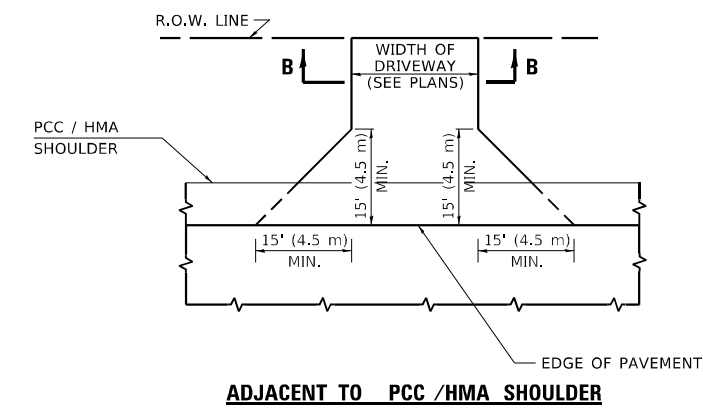
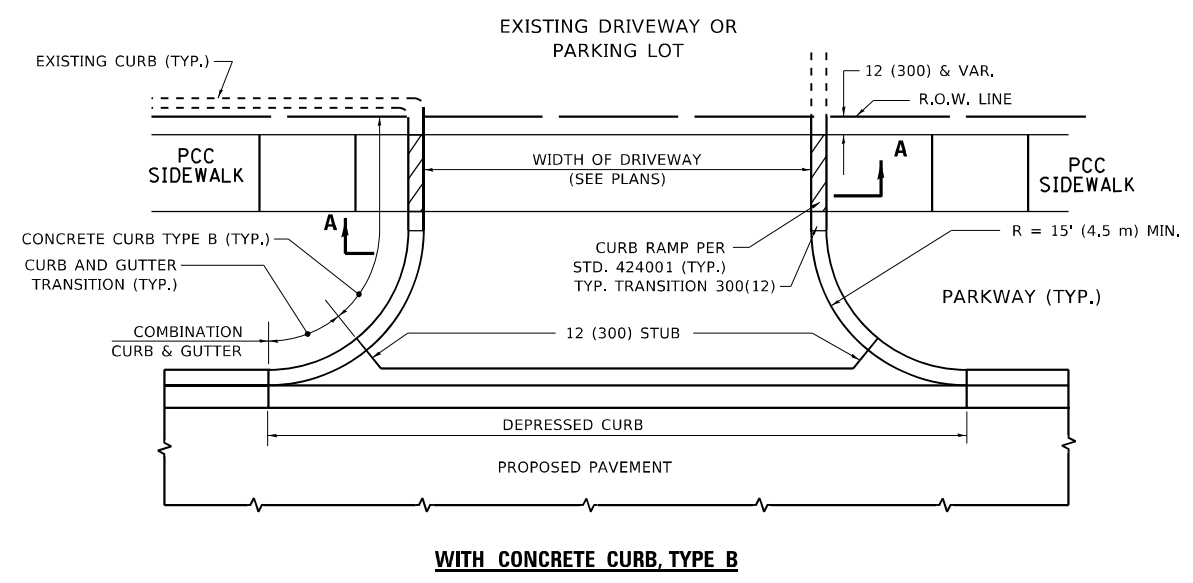
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2020-090-R5&SW	LAKE	68	45
CONTRACT NO. 62L68				
ILLINOIS FED. AID PROJECT				

TS 15131
LAKE COUNTY CENTRACS



CABLE PLAN
(NOT TO SCALE)



GENERAL NOTES

- DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.
- COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

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

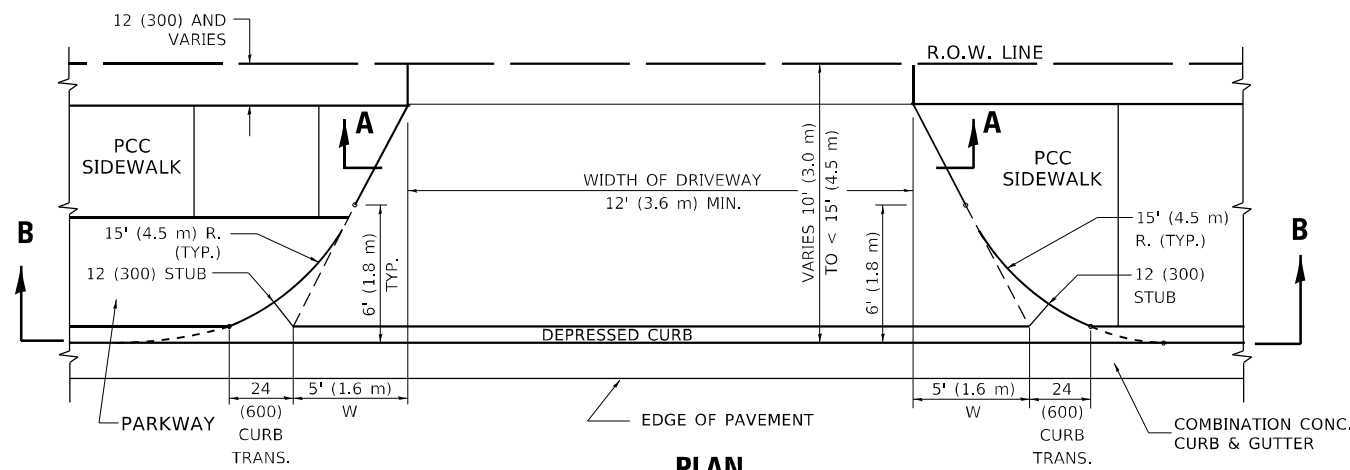
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USER NAME = rostkowski	DESIGNED - R. SHAH	REVISED - R. BORO 06-11-08
	DRAWN -	REVISED - R. BORO 09-06-11
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED - K. SMITH 08-28-19
PLOT DATE = 2/7/2022	DATE - 11-04-95	REVISED - K. SMITH 02-01-22

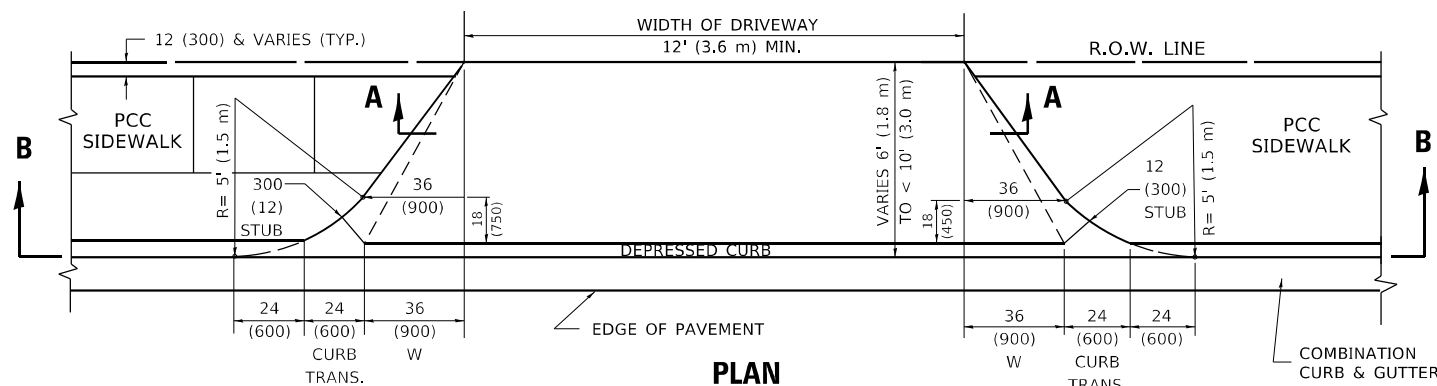
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER ≥ 15'(4.5m)			
SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	

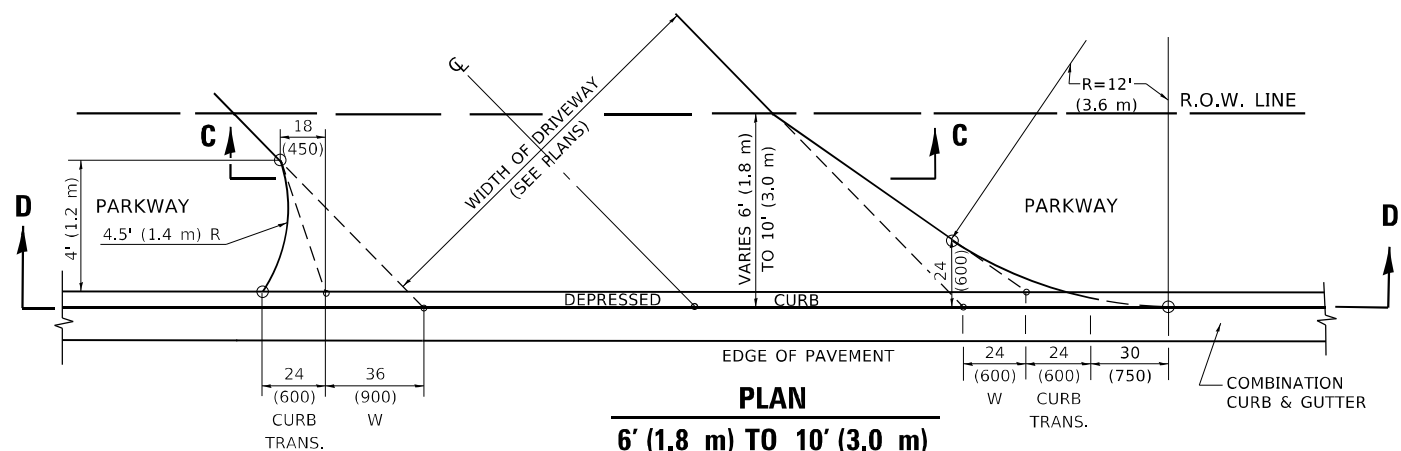
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2020-090-R5&SW	LAKE	68	46
BD400-01 (BD-01)			CONTRACT NO. 62L68	
ILLINOIS FED. AID PROJECT				



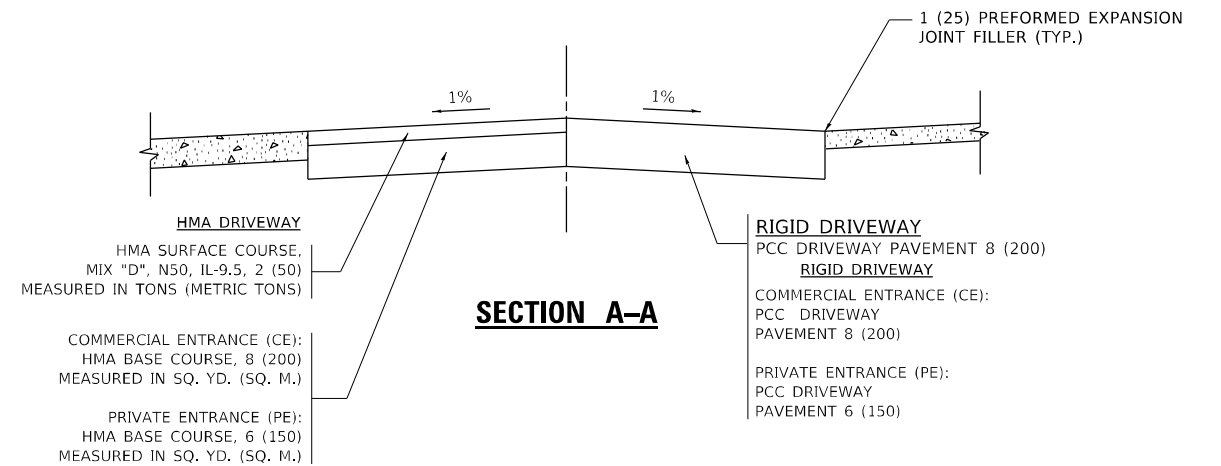
PLAN
10' (3.0 m) TO < 15' (4.5 m)



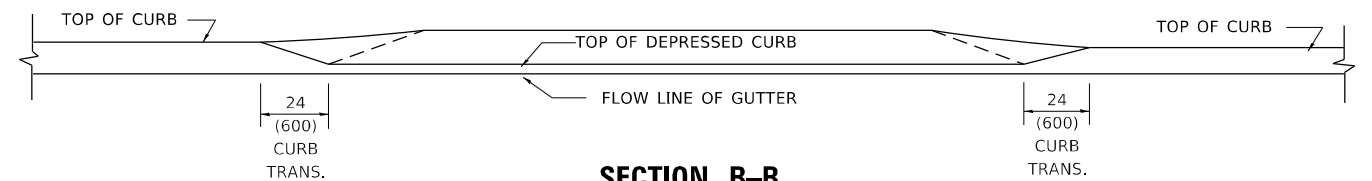
PLAN
6' (1.8 m) TO < 10' (3.0 m)



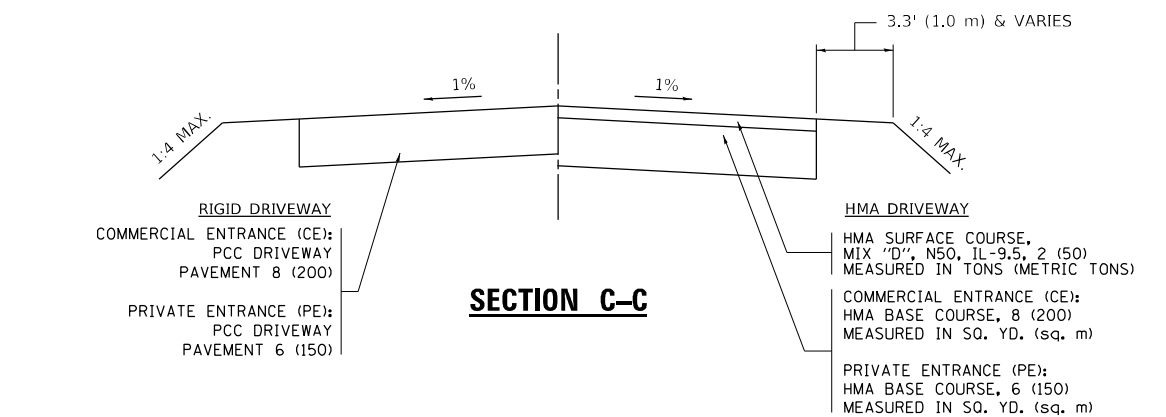
PLAN
6' (1.8 m) TO 10' (3.0 m)



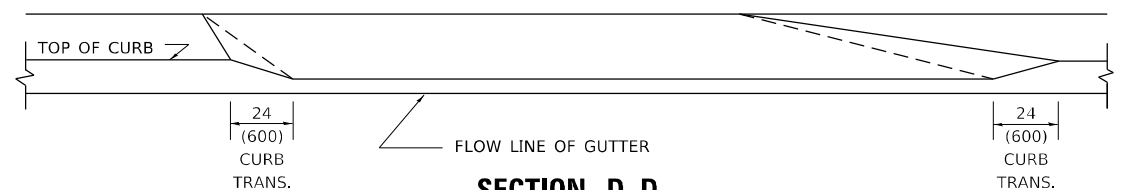
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

GENERAL NOTES

- DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATION 10 IN THE PERMIT HANDBOOK. WHERE SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED WITH RIGID PAVEMENT. WHERE NO SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED IN KIND. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.
- WHEN THE DISTANCE BETWEEN R.O.W. AND THE BACK OF CURB IS EQUAL TO OR LESS THAN 8' (2.4 m), THE PCC SIDEWALK SHALL EXTEND TO THE BACK OF CURB.
- "W" VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3 m).

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

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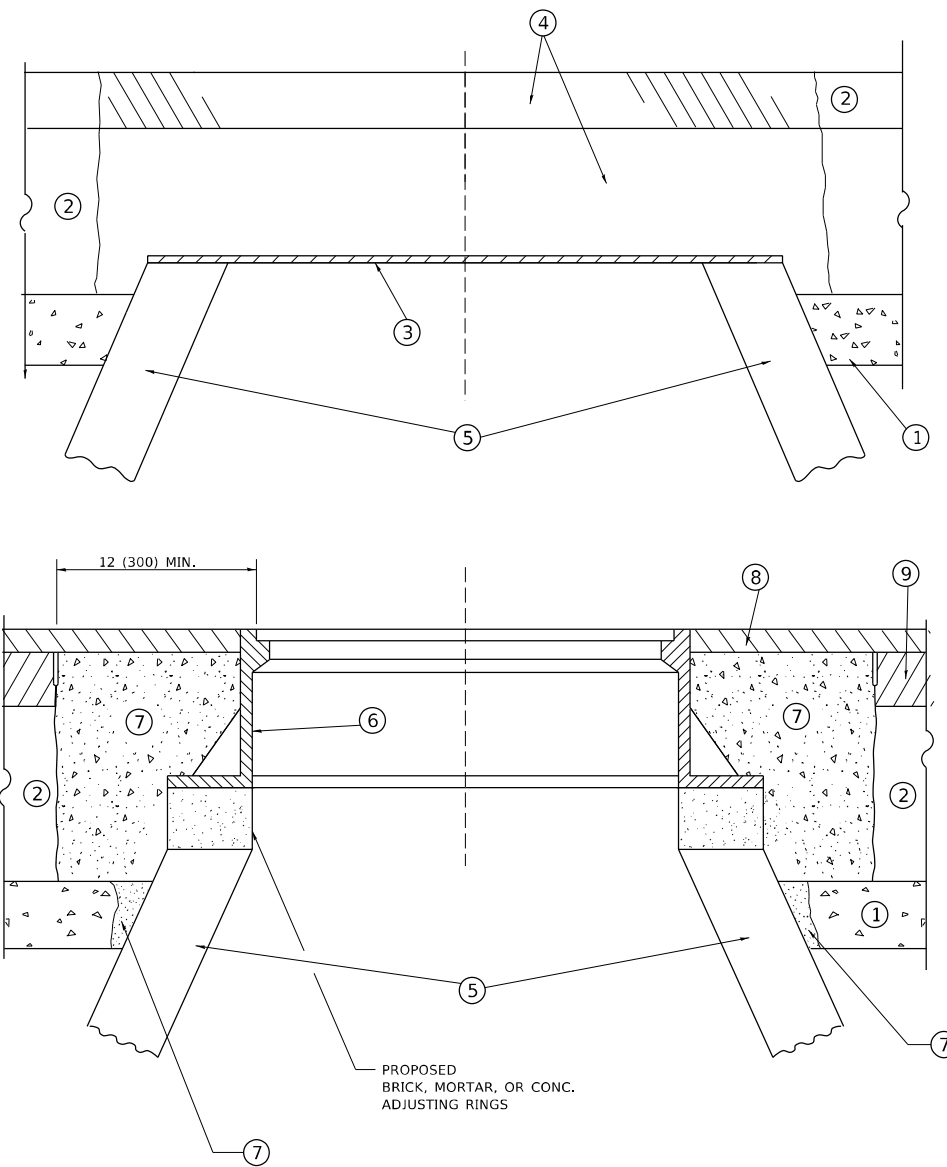
USER NAME = rostkowsdr	DESIGNED - R. SHAH	REVISED - R. BORO 01-01-07
	DRAWN -	REVISED - R. BORO 09-06-11
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED - K. SMITH 08-27-19
PLOT DATE = 2/7/2022	DATE - 11-06-95	REVISED - K. SMITH 02-01-22

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DRIVEWAY DETAILS
DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5m)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2020-090-R5&SW	LAKE	68	47
BD400-02 (BD-02)		CONTRACT NO. 62L68		
ILLINOIS FED. AID PROJECT				



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

NOTES

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

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

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	DRAWN -	REVISED - R. BORO 03-09-11
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED - R. BORO 12-06-11
PLOT DATE = 2/7/2022	DATE - 10-25-94	REVISED - K. SMITH 02-01-22

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

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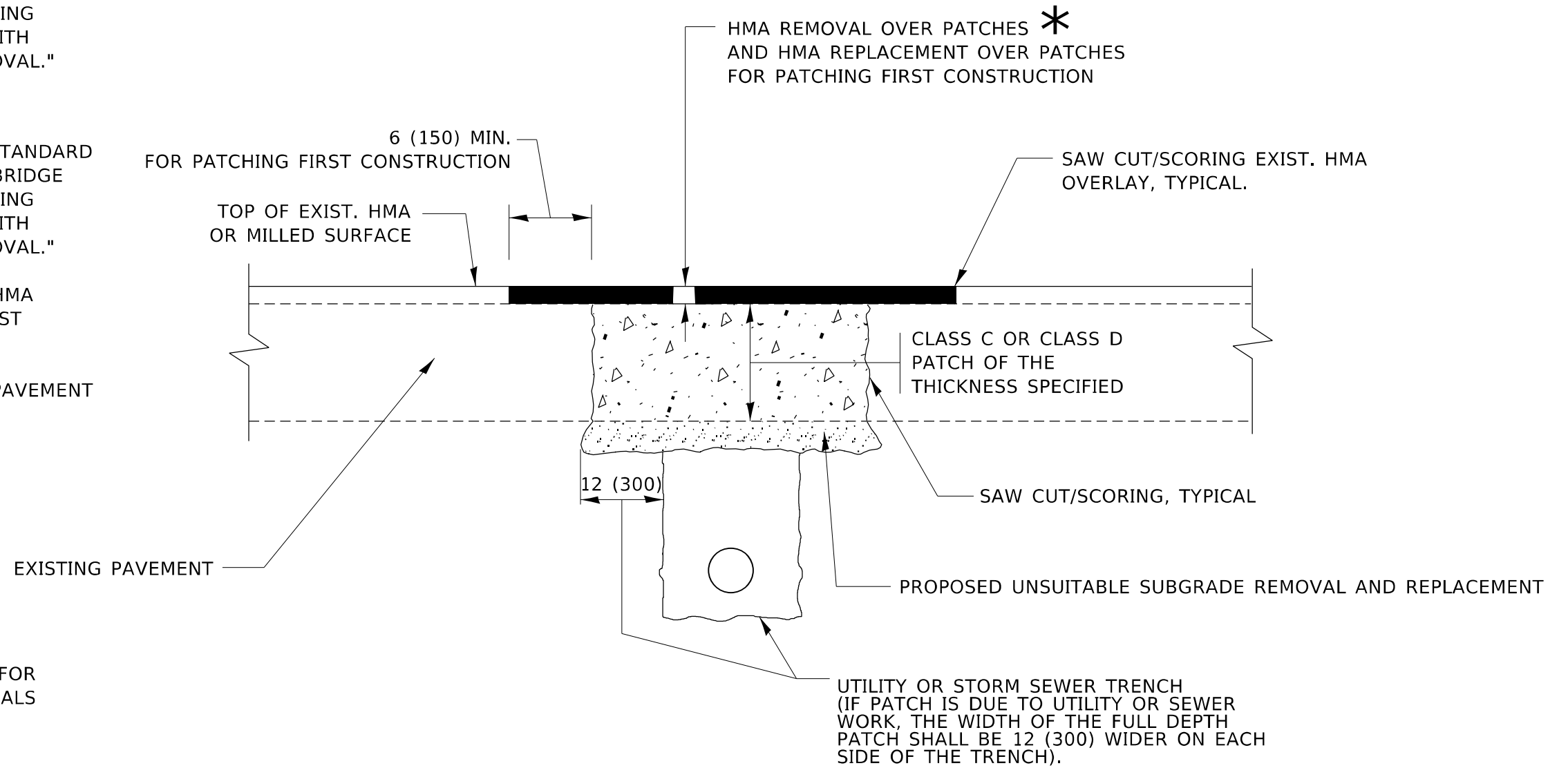
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2020-090-R5&SW	LAKE	68	48
BD600-03 (BD-08)		CONTRACT NO. 62L68		
ILLINOIS FED. AID PROJECT				

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.



* 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.

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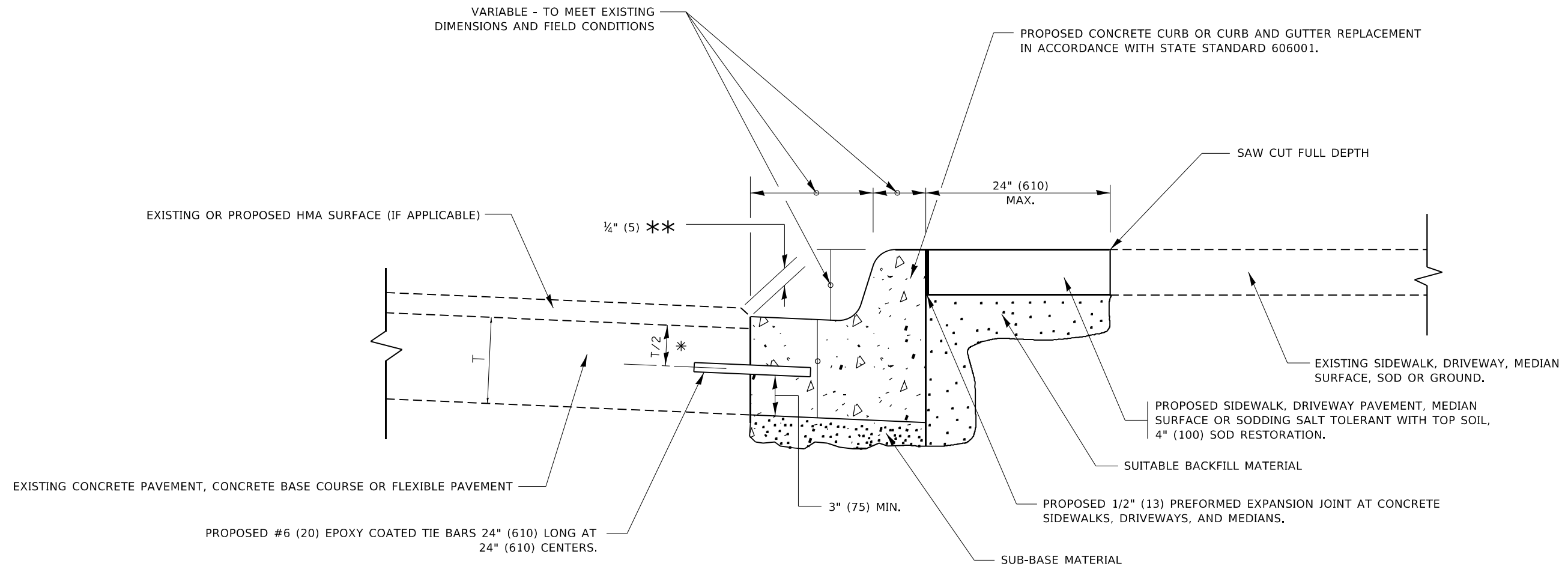
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PLOT DATE = 2/7/2022	DATE - 10-25-94	REVISED - K. ENG 10-27-08
		REVISED - K. SMITH 02-01-22

**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.
352	2020-090-R5&SW	LAKE	68	49
BD400-04 (BD-22)		CONTRACT NO. 62L68		
ILLINOIS FED. AID PROJECT				



- * 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
- ** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

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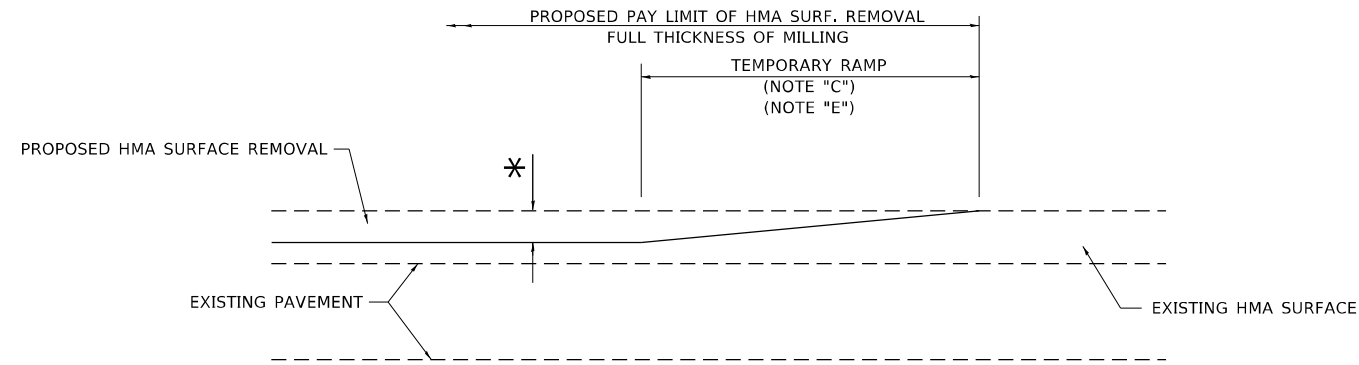
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PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED - R. BORO 12-15-09
PLOT DATE = 2/7/2022	DATE - 03-11-94	REVISED - K. SMITH 07-11-19

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CURB OR CURB AND GUTTER
REMOVAL AND REPLACEMENT**

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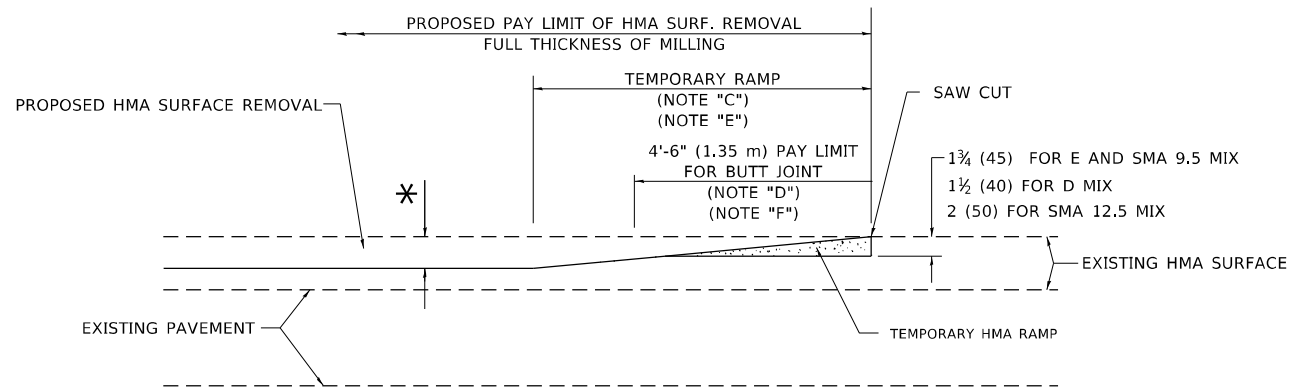
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352	2020-090-R5&SW	LAKE	68	50
BD600-06 (BD-24)			CONTRACT NO. 62L68	
ILLINOIS FED. AID PROJECT				



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

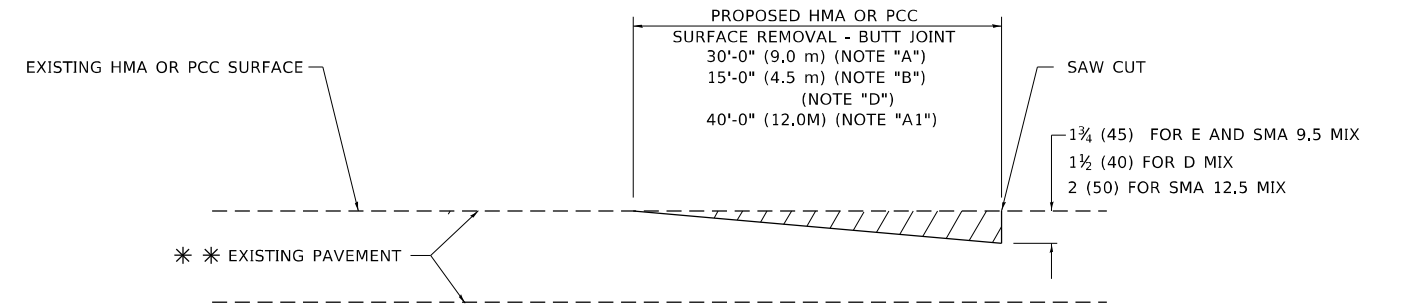


HMA CONSTRUCTED TEMPORARY RAMP

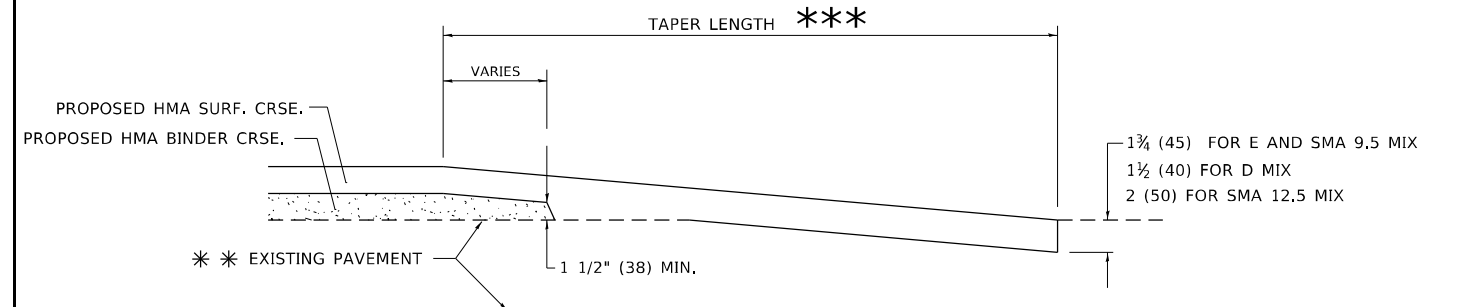
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP



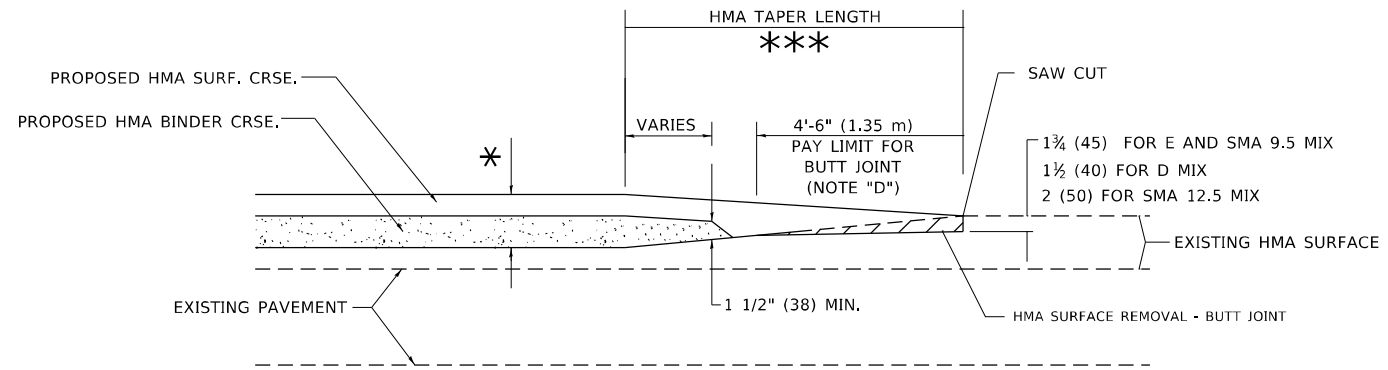
BUTT JOINT DETAIL



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.

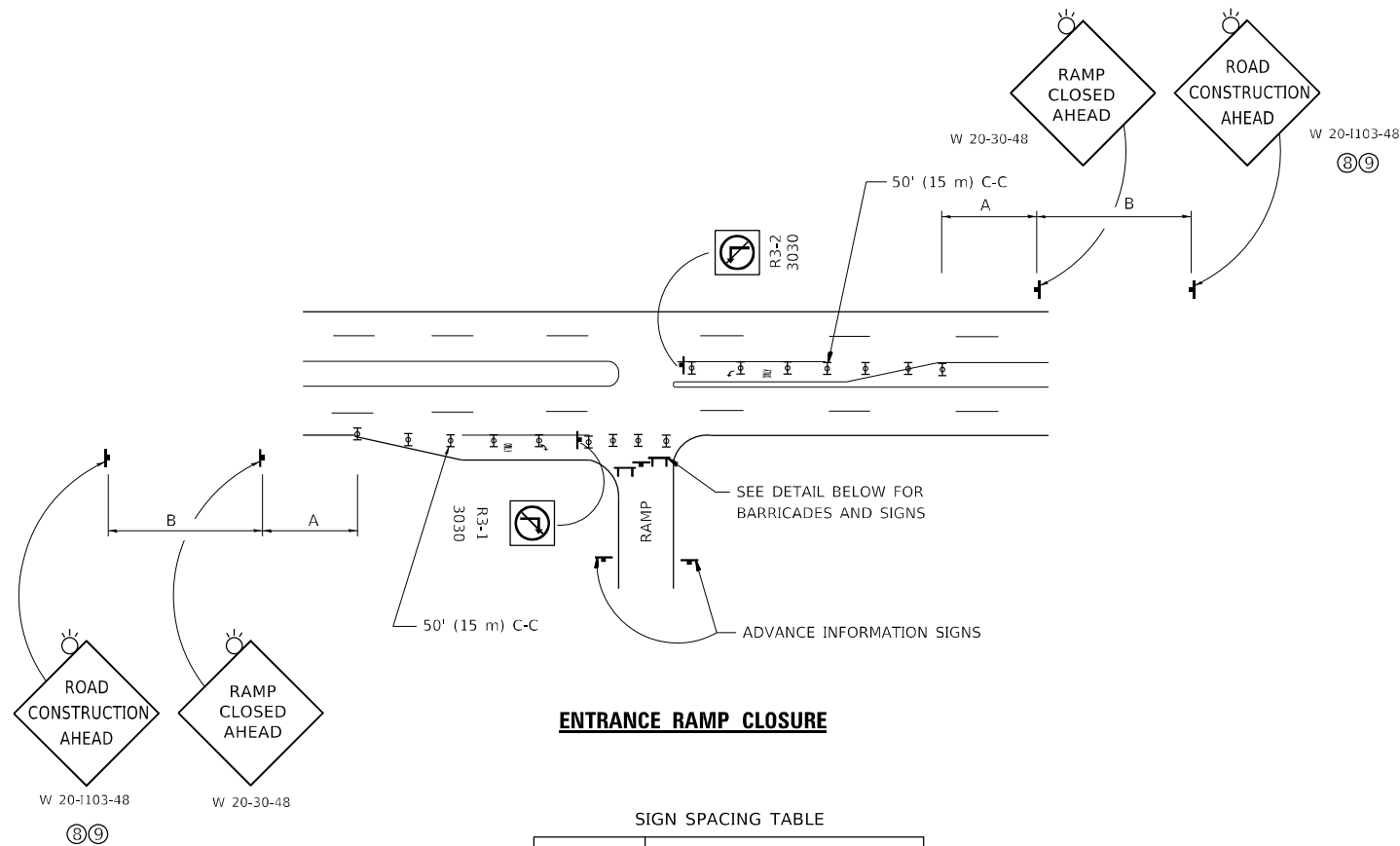
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PLOT DATE = 2/7/2022	DATE - 06-13-90	REVISED - R. BORO 01-01-07
		REVISED - K. SMITH 02-01-22

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2020-090-R5&SW	LAKE	68	51
BD400-05 BD-32		CONTRACT NO. 62L68		
ILLINOIS FED. AID PROJECT				

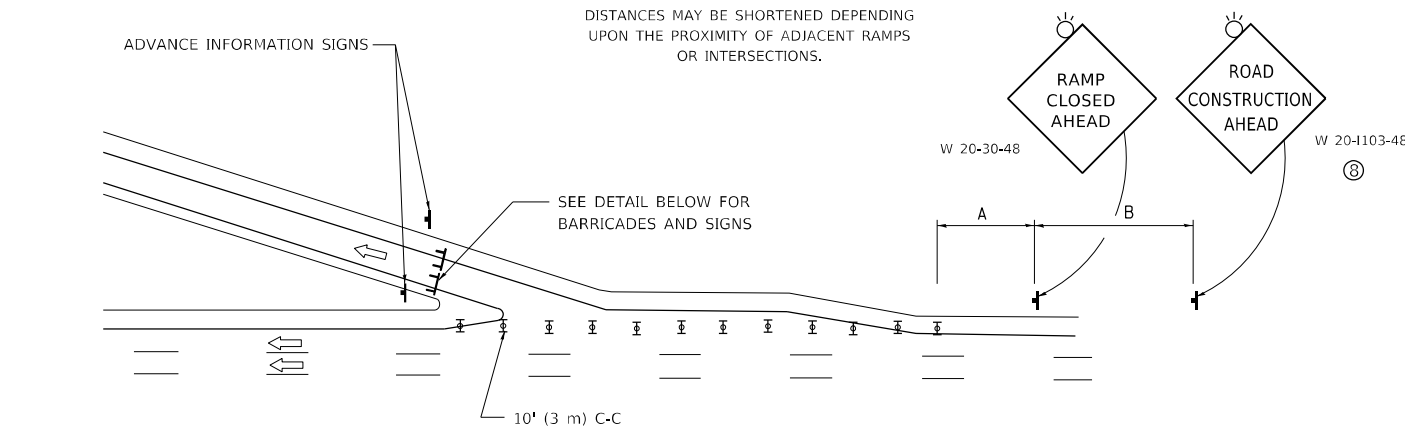


ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

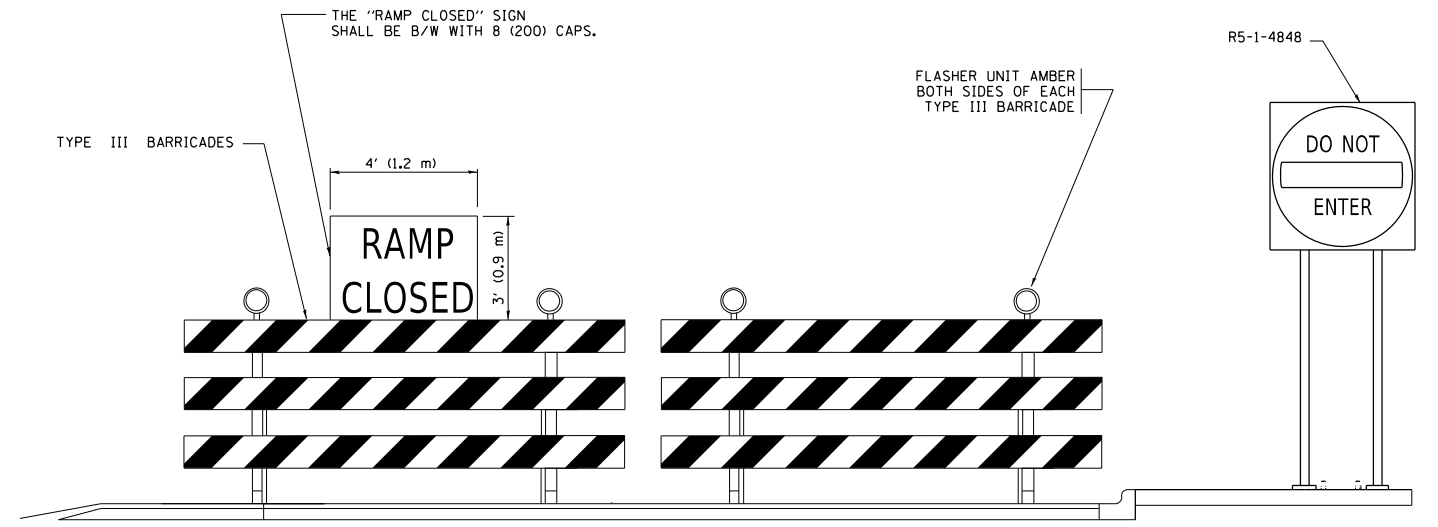
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



EXIT RAMP CLOSURE

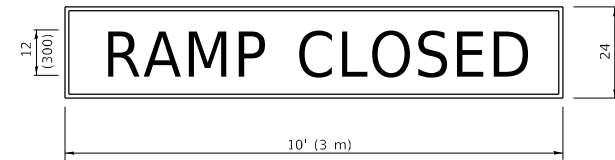
SYMBOLS

- ▬ TYPE II BARRICADE OR DRUM
- ▬ TYPE III BARRICADE WITH 2 FLASHING LIGHTS



DETAIL FOR REQUIRED BARRICADES & SIGNS

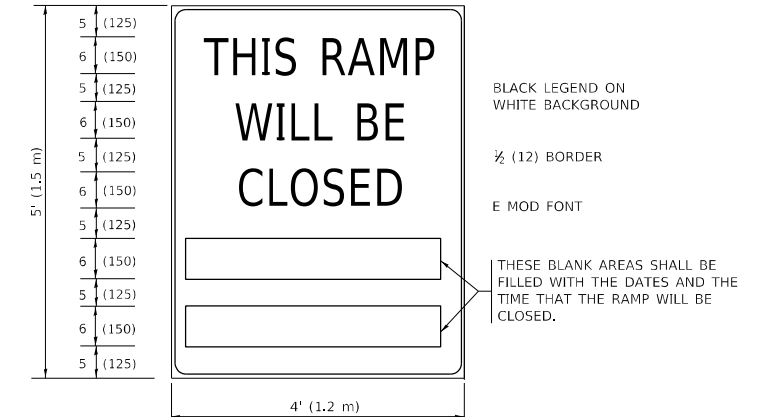
RAMP CLOSURE ADVANCE WARNING SIGN



BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY
E MOD FONT
1 (25) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

RAMP CLOSURE ADVANCE INFORMATION SIGN



BLACK LEGEND ON WHITE BACKGROUND

1/2 (12) BORDER

E MOD FONT

THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

GENERAL NOTES:

- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- ② VERTICAL BARRICADES SHALL NOT BE USED FOR RAMP CLOSURES.
- ③ A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEDED BY A W20-7 FLAGGER WARNING SIGN.
- ④ ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- ⑤ THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- ⑥ AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- ⑦ THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH.
- ⑧ ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ⑨ ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

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

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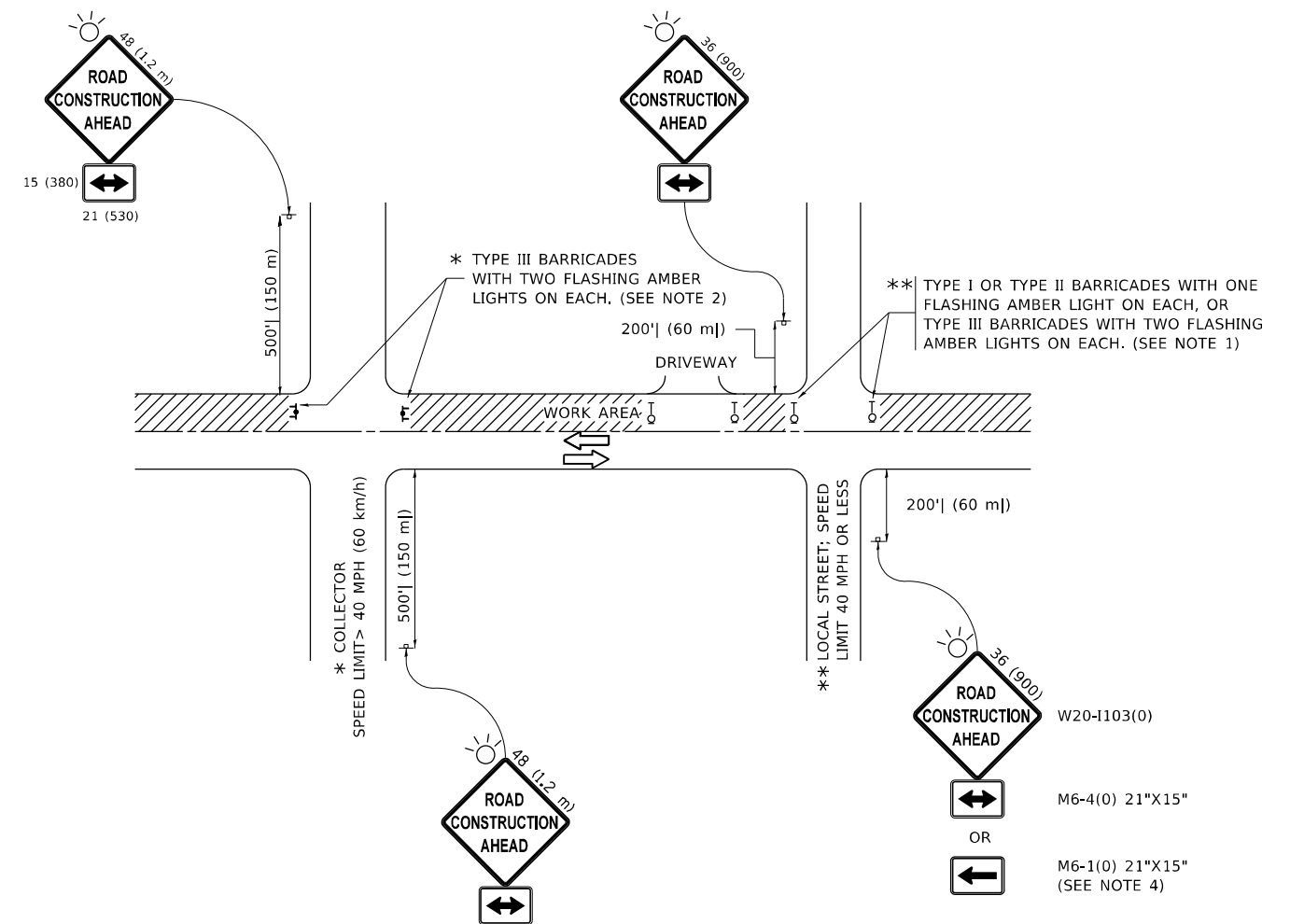
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PLOT DATE = 2/7/2022	DATE - 02-83	REVISED - M.D._06-13
		REVISED - M.D._01-18

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ENTRANCE_AND_EXIT_RAMP
CLOSURE_DETAILS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2020-090-R5&SW	LAKE	68	52
TC-08			CONTRACT NO. 62L68	
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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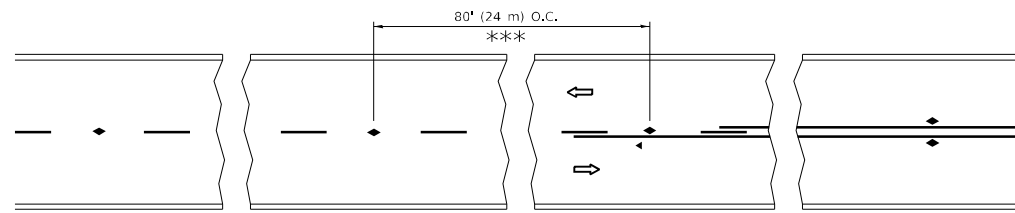
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PLOT DATE = 2/7/2022	DATE - 06-89	REVISED - A. SCHUETZE 07-01-13
		REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

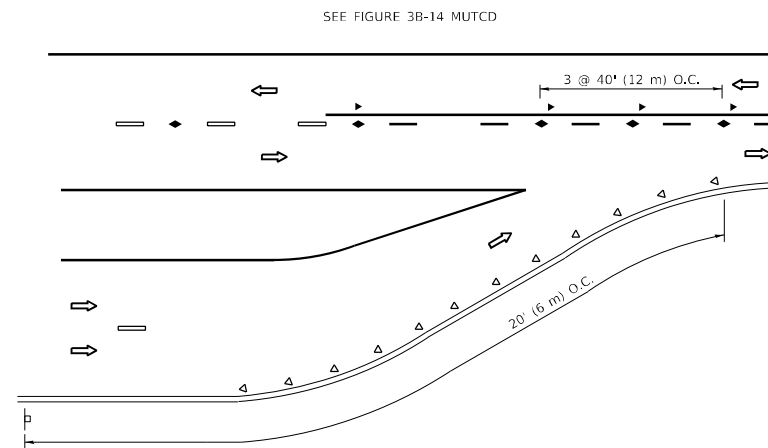
**TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

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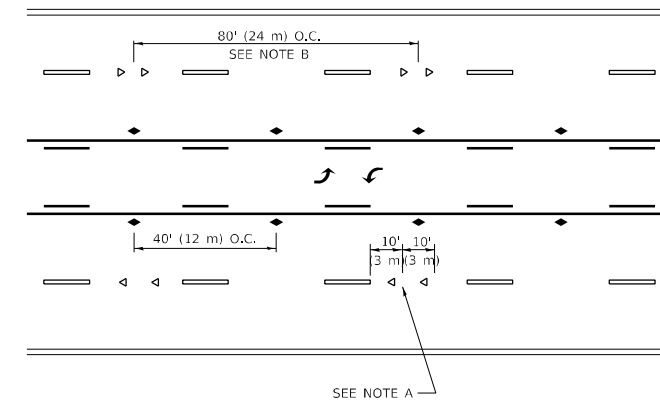
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352	2020-090-R5&SW	LAKE	68	53
TC-10			CONTRACT NO. 62L68	
ILLINOIS FED. AID PROJECT				



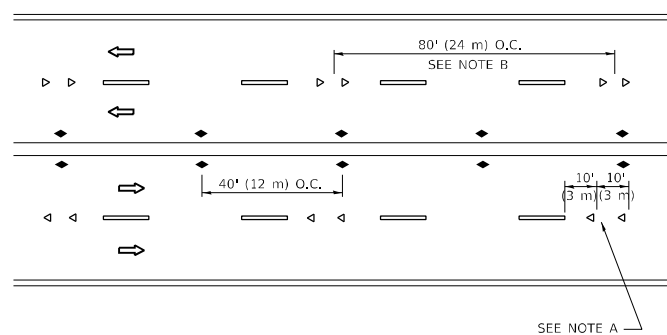
TWO-LANE/TWO-WAY



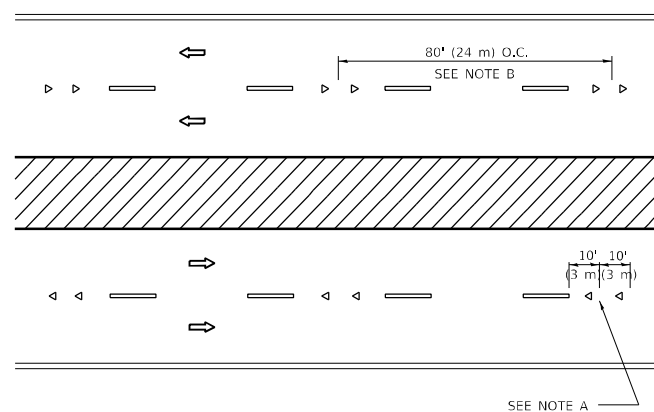
LANE REDUCTION TRANSITION



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

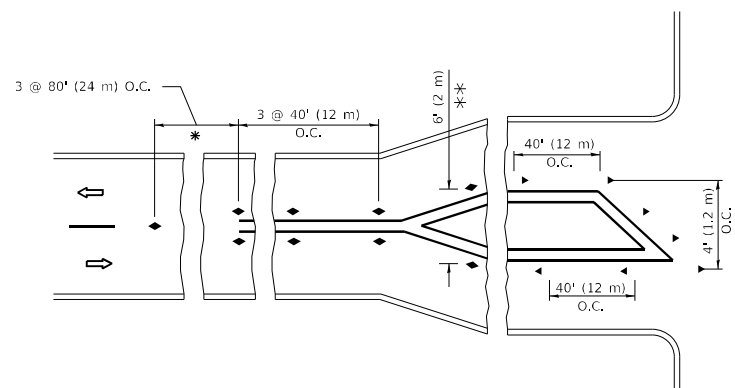
- YELLOW STRIPE
- ▬ WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

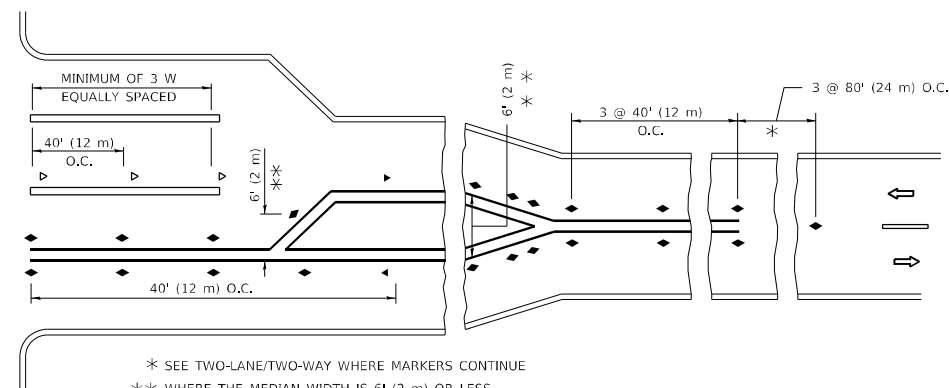
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H. (20 km/h) LOWER THAN POSTED SPEEDS.

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.



TURN LANES



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

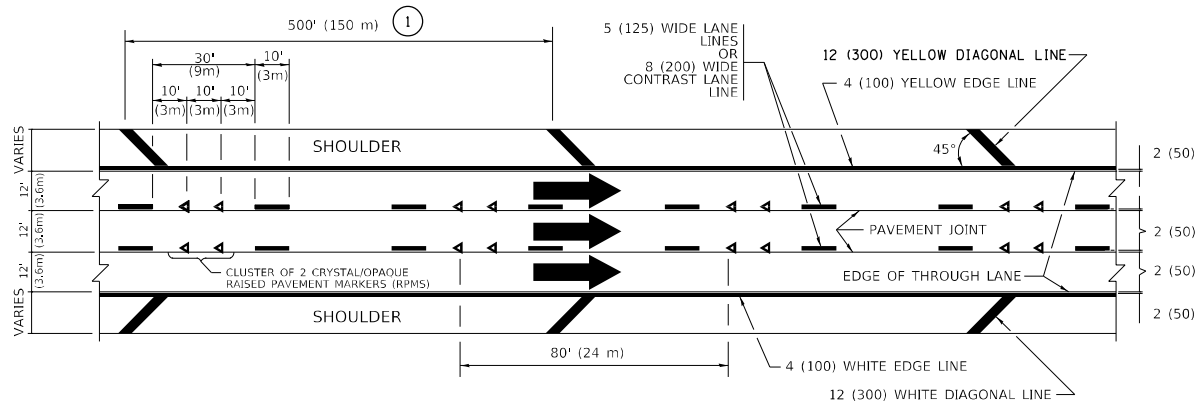
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PLOT DATE = 2/7/2022	DATE -	REVISIONS - C. JUCIUS 07-01-13

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2020-090-RS&SW	LAKE	68	54
TC-11			CONTRACT NO. 62L68	
ILLINOIS FED. AID PROJECT				

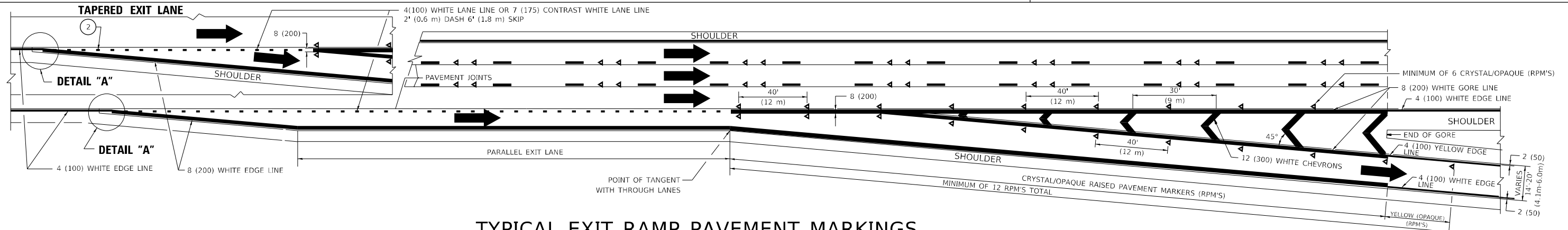
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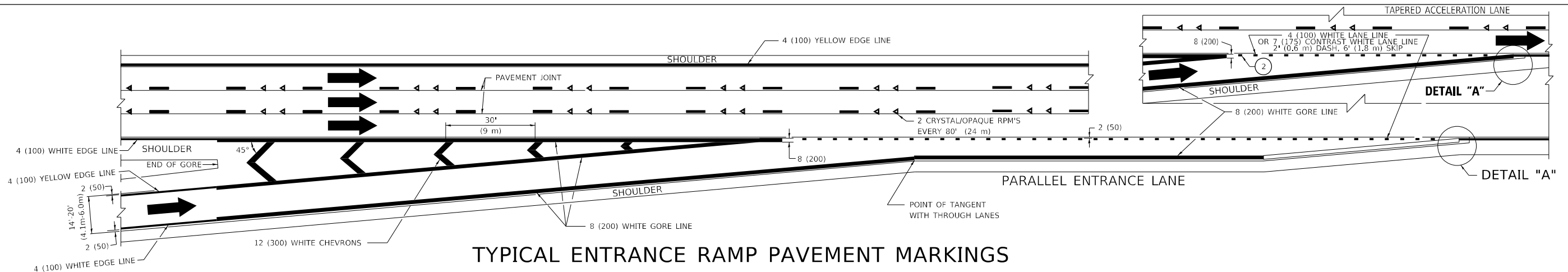
TYPICAL EDGE LINES & LANE LINES

PAVEMENT MARKING MATERIALS

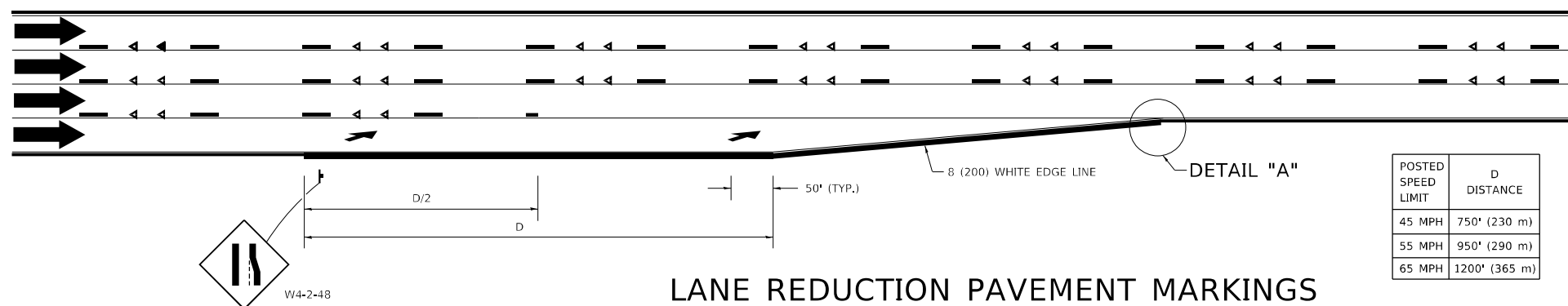
1. THERMOPLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR ALL EDGE LINES, GORE LINES, AND DIAGONAL LINES ON HMA PAVEMENTS.
2. POLYUREA OR MODIFIED URETHANE PAVEMENT MARKING LINE SHALL BE USED FOR ALL EDGE LINES, GORE LINES, AND DIAGONAL LINES ON PCC PAVEMENTS.
3. PREFORMED PLASTIC PAVEMENT MARKING LINE TYPE B, INLAID OR GROOVE IN, SHALL BE USED FOR ALL LANE LINES ON HMA PAVEMENTS.
4. CONTRAST PREFORMED PLASTIC PAVEMENT MARKING LINE TYPE B, GROOVE IN, SHALL BE USED FOR ALL LANE LINES ON PCC PAVEMENT.



TYPICAL EXIT RAMP PAVEMENT MARKINGS

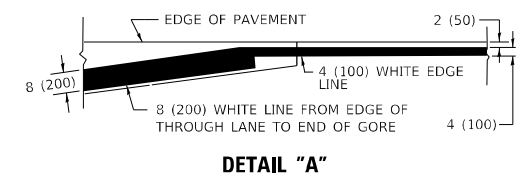


TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS



LANE REDUCTION PAVEMENT MARKINGS

POSTED SPEED LIMIT	D DISTANCE
45 MPH	750' (230 m)
55 MPH	950' (290 m)
65 MPH	1200' (365 m)



NOTES:

1. THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH. THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH.
2. 4" (2' DASH, 6' SKIP) MARKING ON TAPERED ENTRANCE AND EXIT RAMP SHALL BE OMITTED ON TANGENT SECTIONS.

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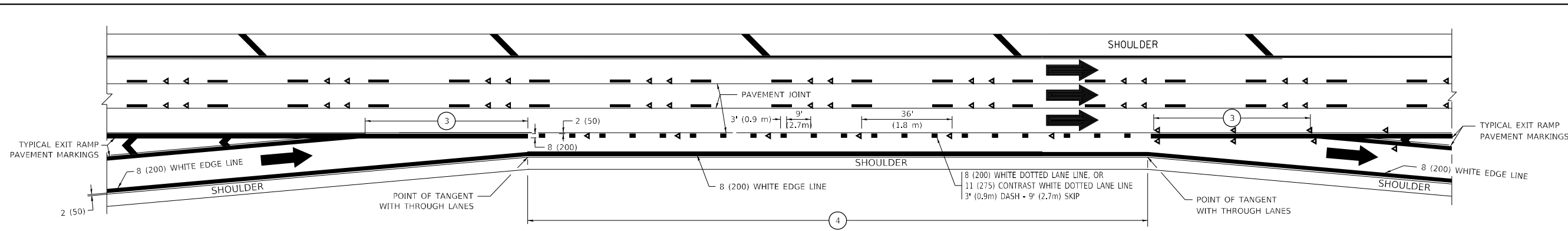
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		REVISED - M.D. 09-17

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

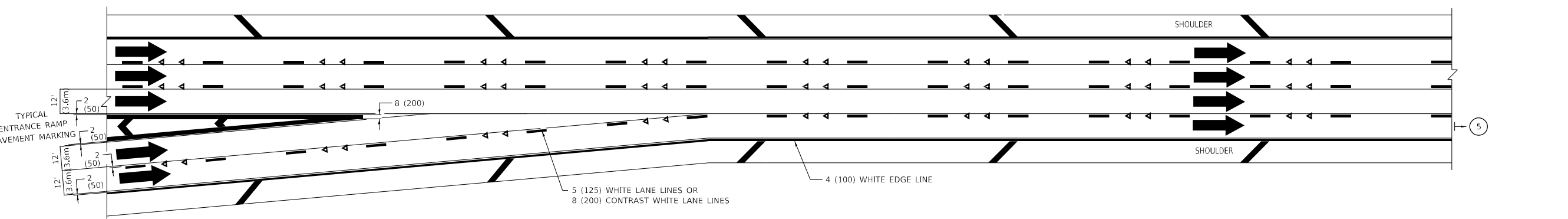
MULTI-LANE FREEWAY
PAVEMENT MARKING DETAILS

SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

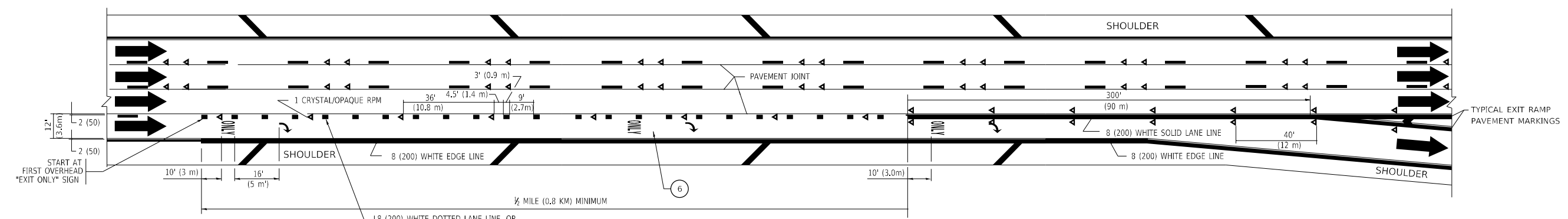
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TC-12			CONTRACT NO. 62L68	
ILLINOIS FED. AID PROJECT				



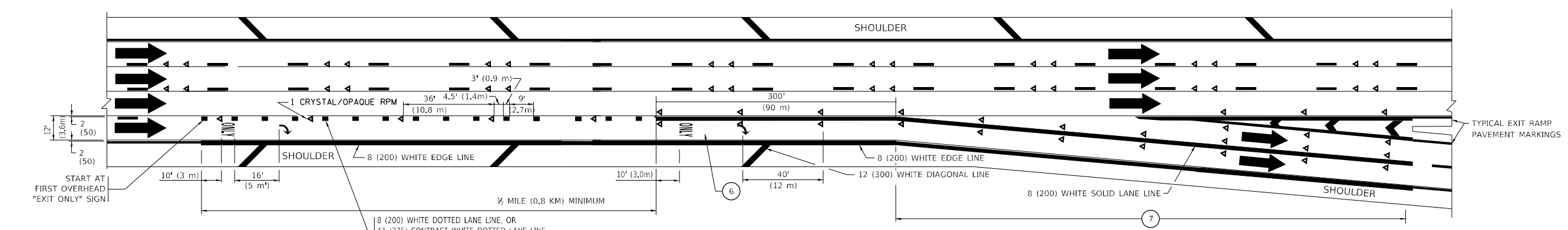
AUXILIARY LANE MARKINGS



TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS



EXIT ONLY LANE MARKINGS



EXIT ONLY WITH OPTION LANE MARKINGS

- NOTES:**
- ③ OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).
 - ④ 8-INCH WIDE DOTTED LANE LINE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.
 - ⑤ FOR TWO-LANE ENTRANCE RAMP, IF RIGHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.
 - ⑥ ONLY AND ARROWS EQUALLY SPACED, 500' (150 m) MAXIMUM SPACING. FULL SIZE LETTERS AND ARROW SHALL BE USED.
 - ⑦ CONTINUE 8" SOLID LANE LINE THROUGH EXIT TO END OF PAVED GORE.

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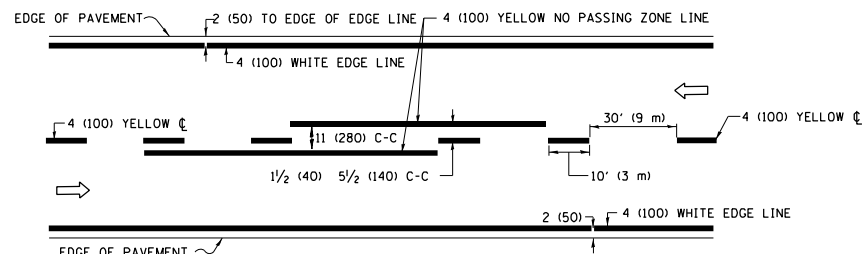
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	DRAWN -	REVISED - S.P.B. 01-07
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PLOT DATE = 2/7/2022	DATE - 01-90	REVISED - M.D. 09-17

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

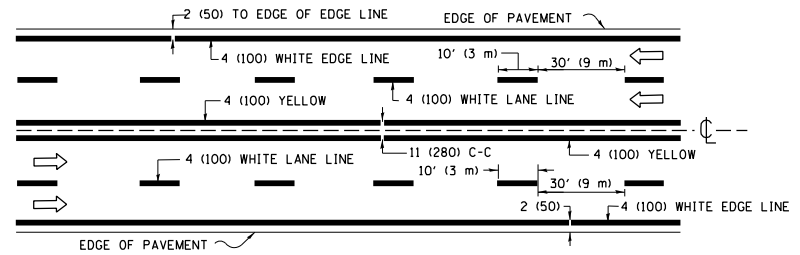
**MULTI-LANE FREEWAY
PAVEMENT MARKING DETAILS**

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

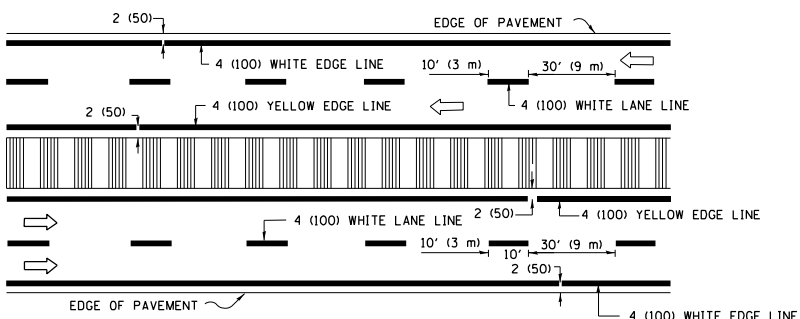
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TC-12		CONTRACT NO. 62L68		
ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

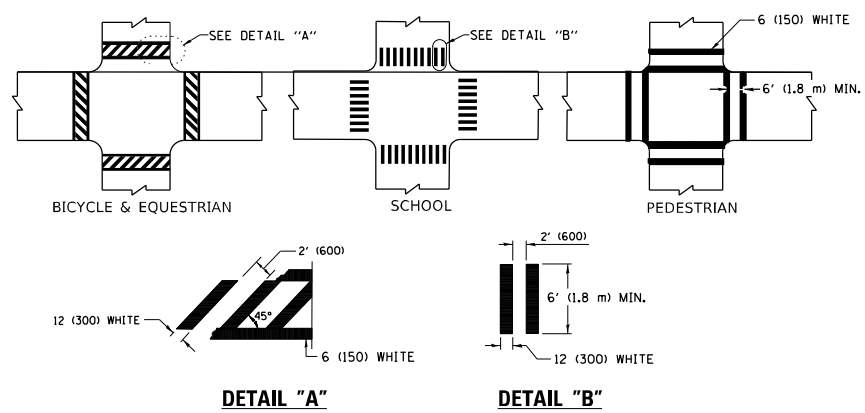


MULTI-LANE UNDIVIDED



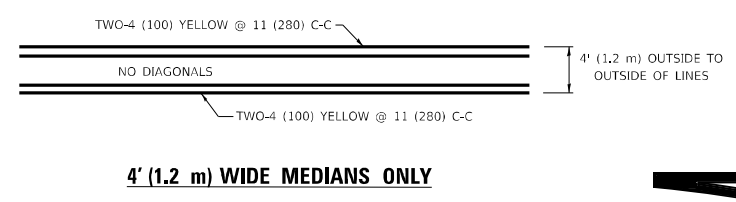
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

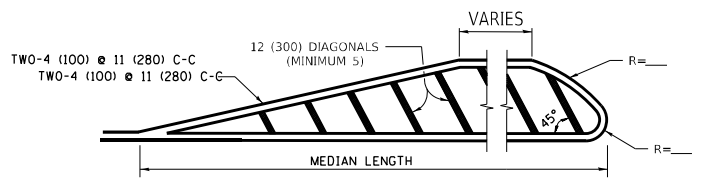


TYPICAL CROSSWALK MARKING

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

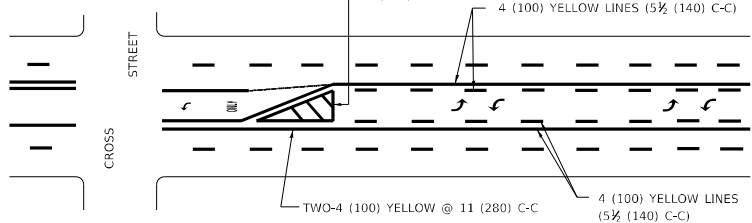


4' (1.2 m) WIDE MEDIANS ONLY



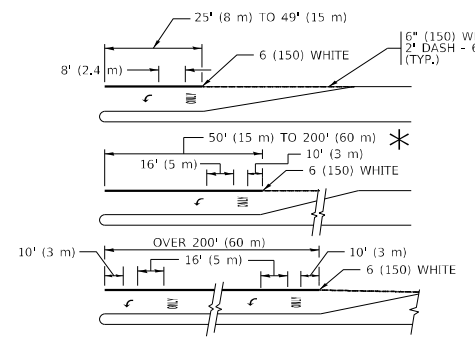
MEDIANS OVER 4' (1.2 m) WIDE

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))



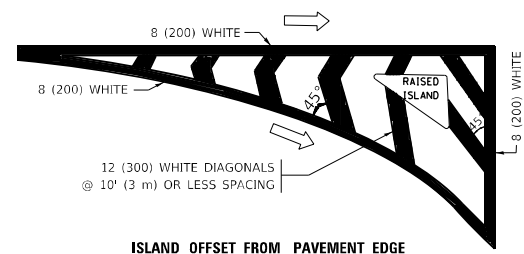
MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

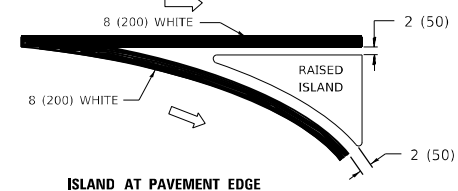


TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

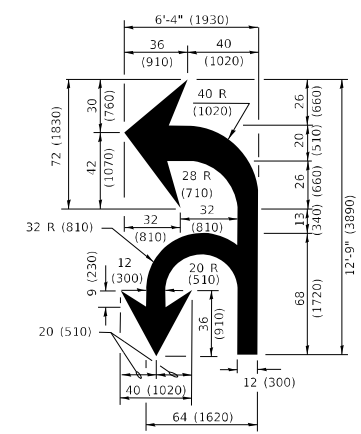


ISLAND OFFSET FROM PAVEMENT EDGE

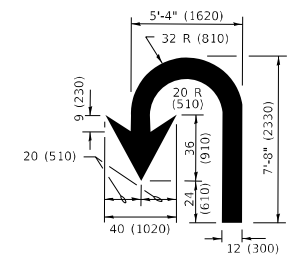


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

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

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

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES: "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
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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		REVISED - 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.
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F.A.P. RTE. 352	SECTION 2020-090-R5&SW	COUNTY LAKE	TOTAL SHEETS 68	SHEET NO. 57
TC-13		CONTRACT NO. 62L68		
ILLINOIS FED. AID PROJECT				

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

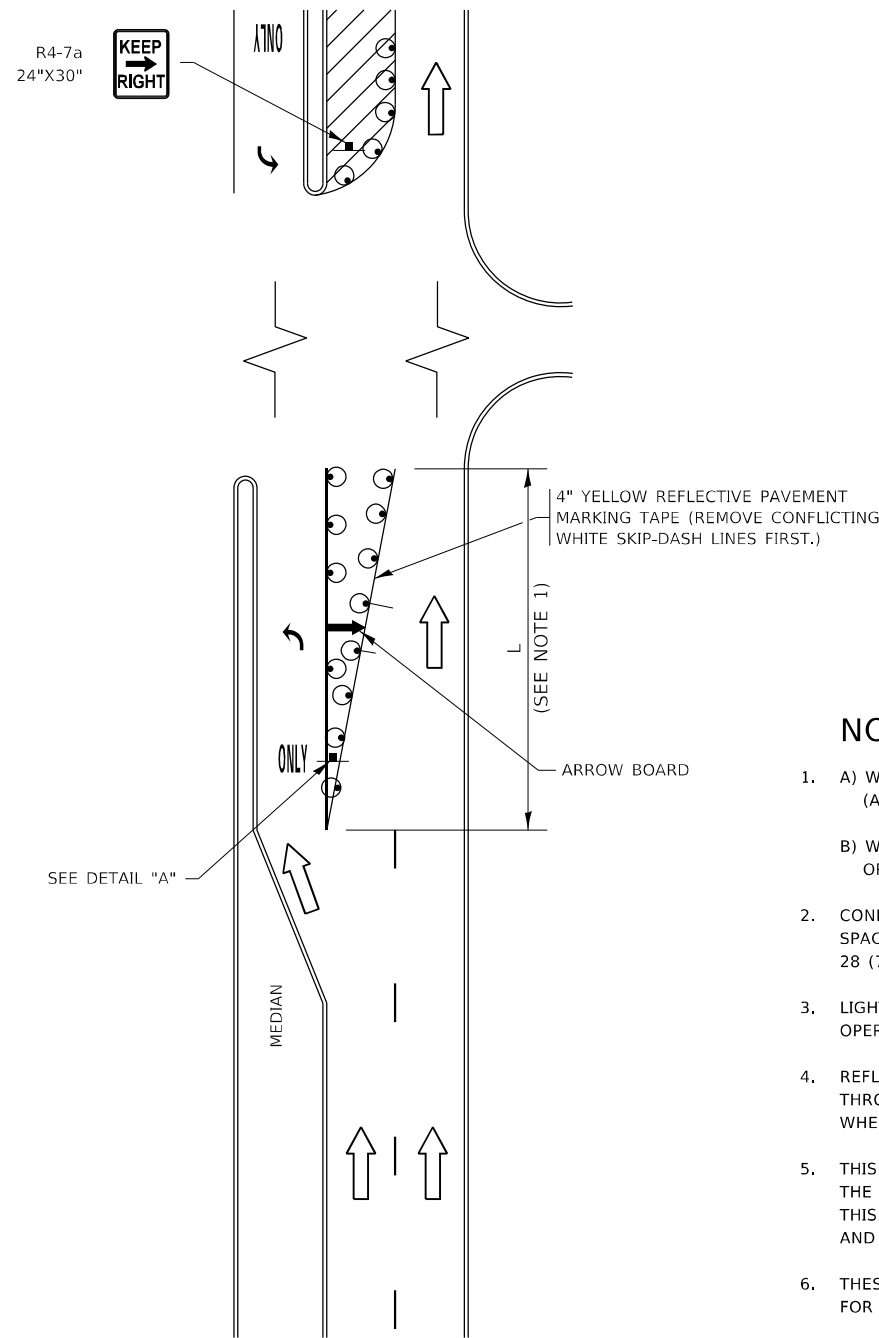


FIGURE 1

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

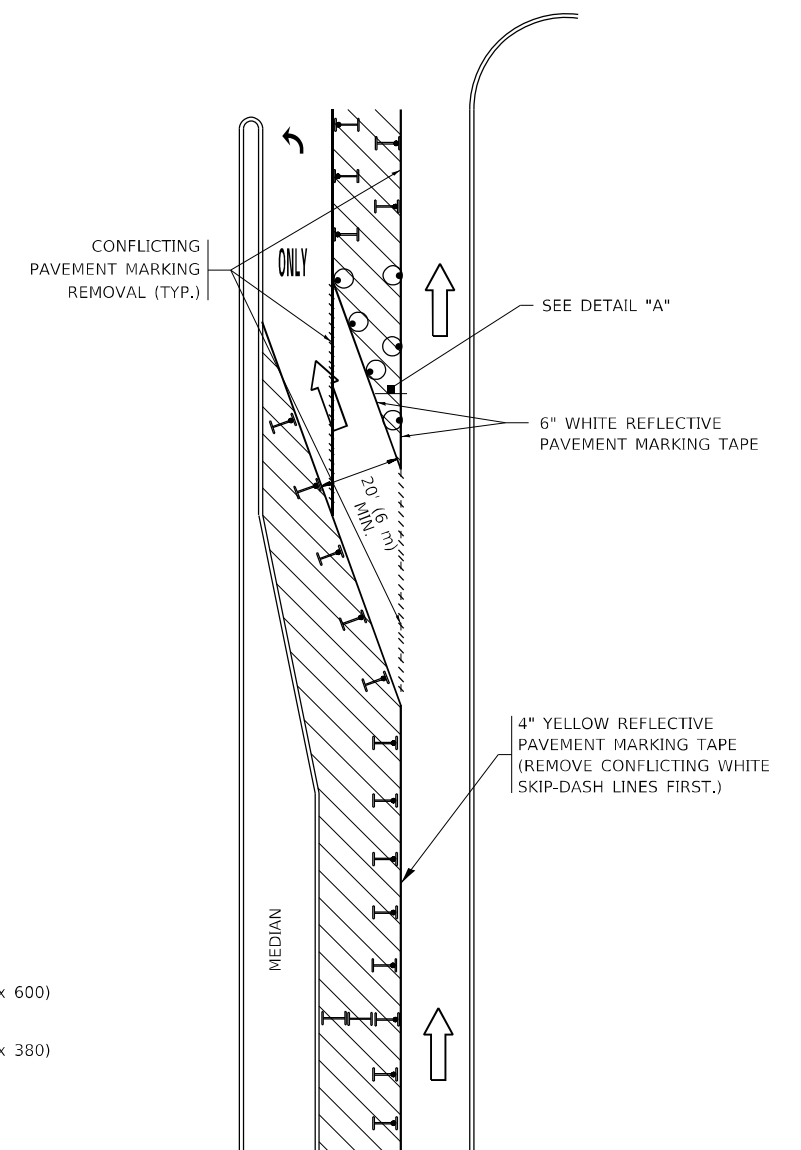


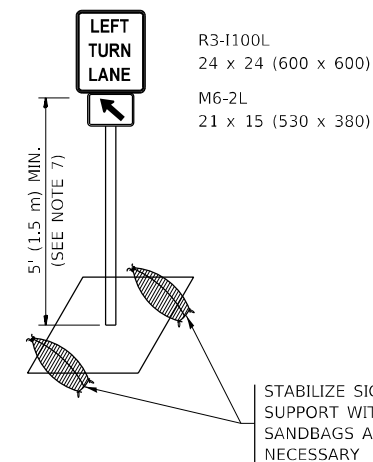
FIGURE 2

LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- ARROW BOARD
- TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- SIGN ASSEMBLY
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

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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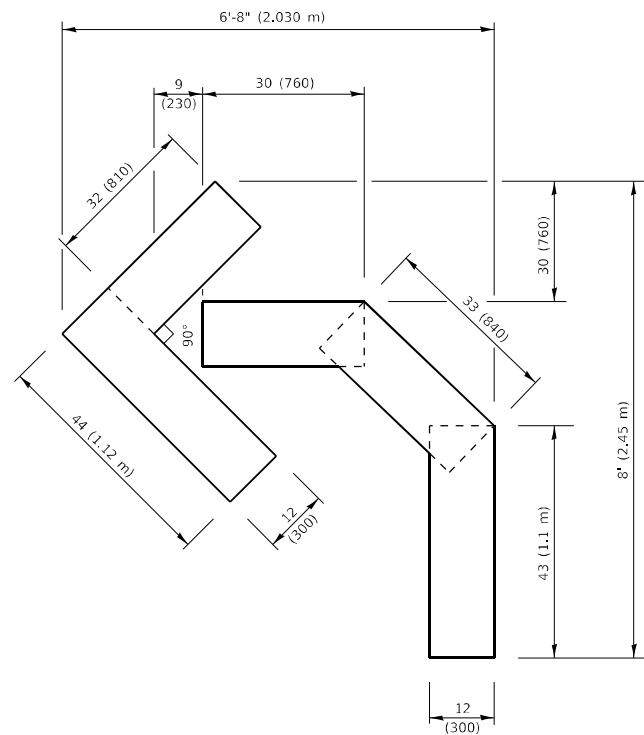
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PLOT DATE = 2/7/2022	DATE - T. RAMMACHER 01-06-00	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

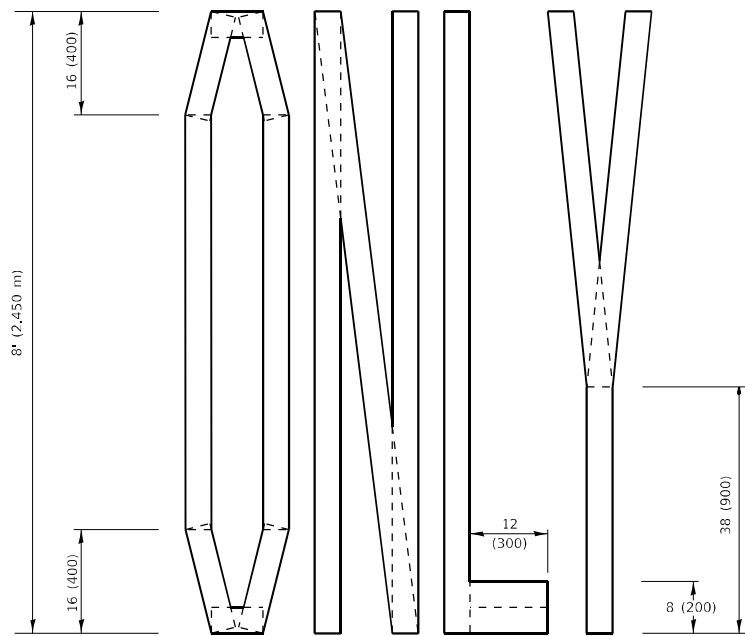
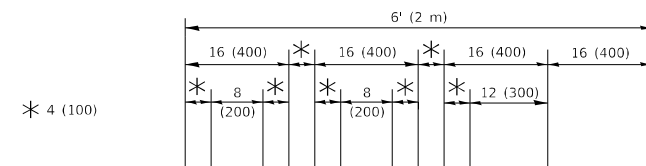
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-14		CONTRACT NO. 62L68		
ILLINOIS FED. AID PROJECT				



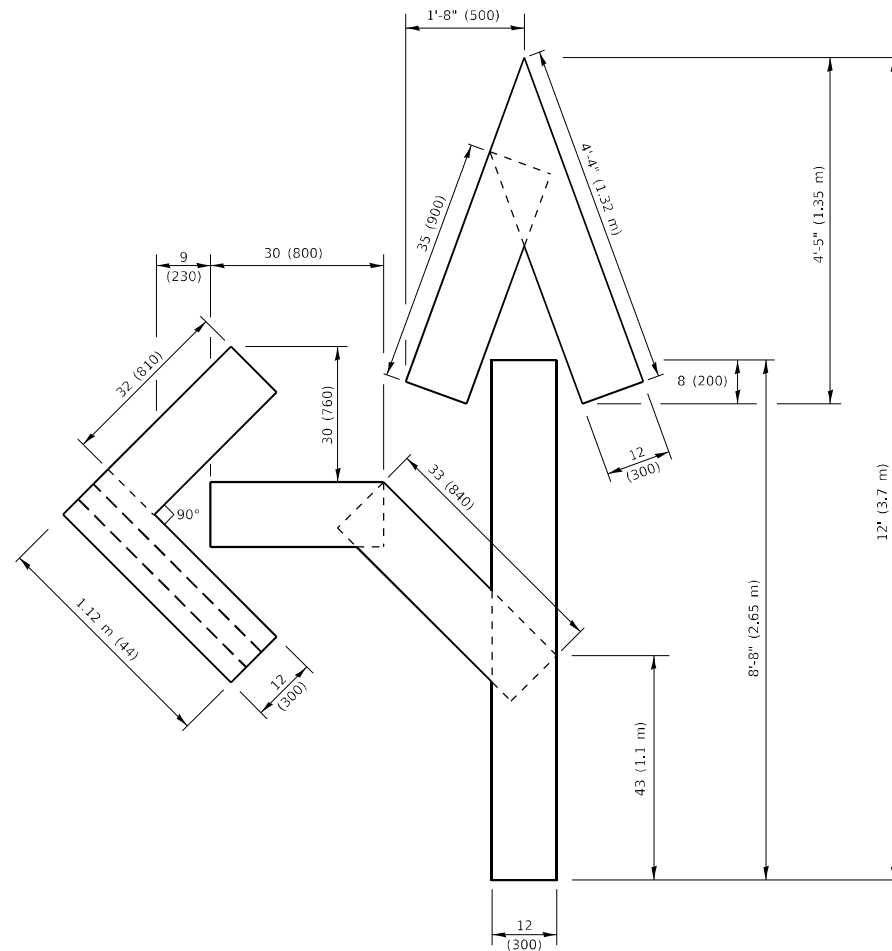
QUANTITY

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



QUANTITY

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

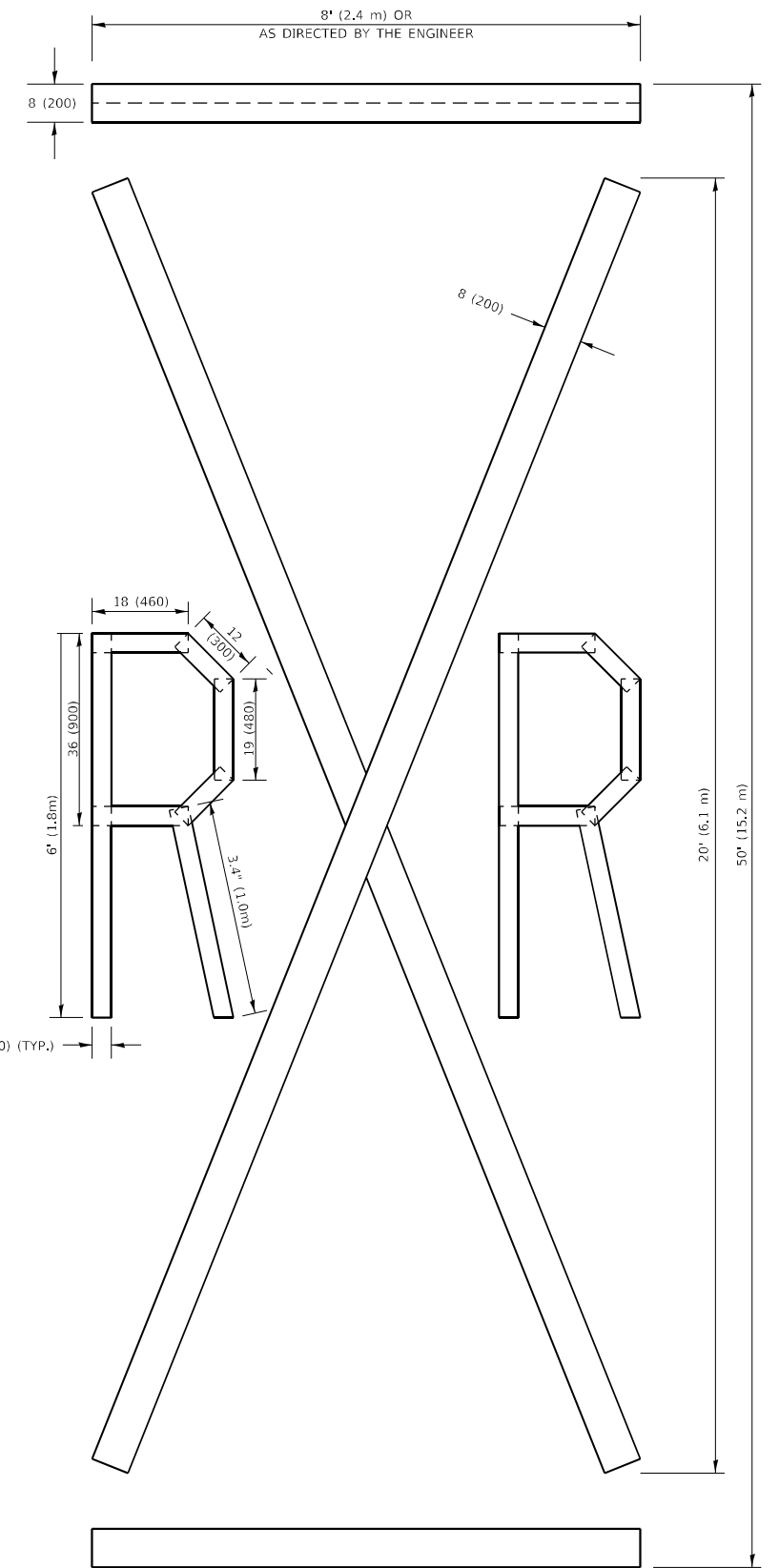


QUANTITY

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

NOTE:

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



QUANTITY

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

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

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DRAWN -	REVISOR - E. GOMEZ 08-28-00	
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

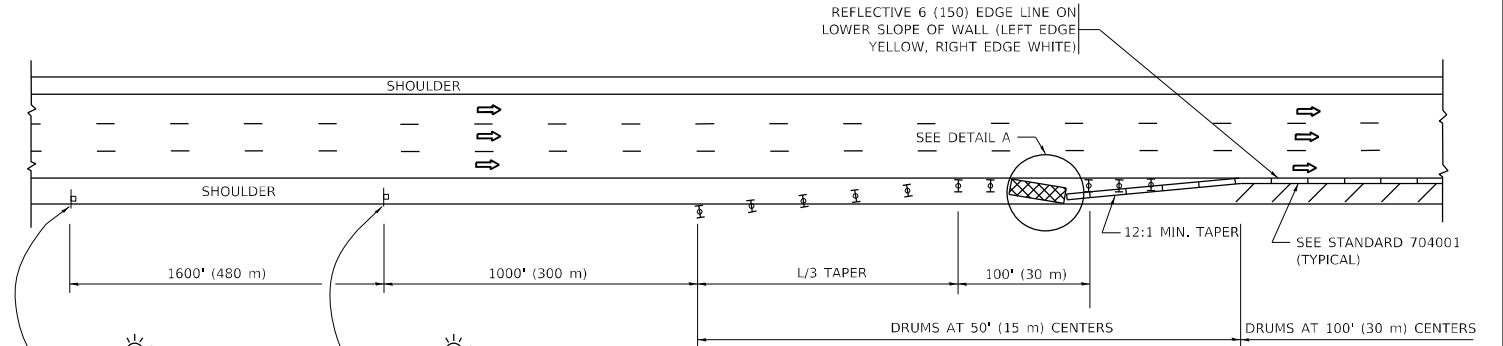
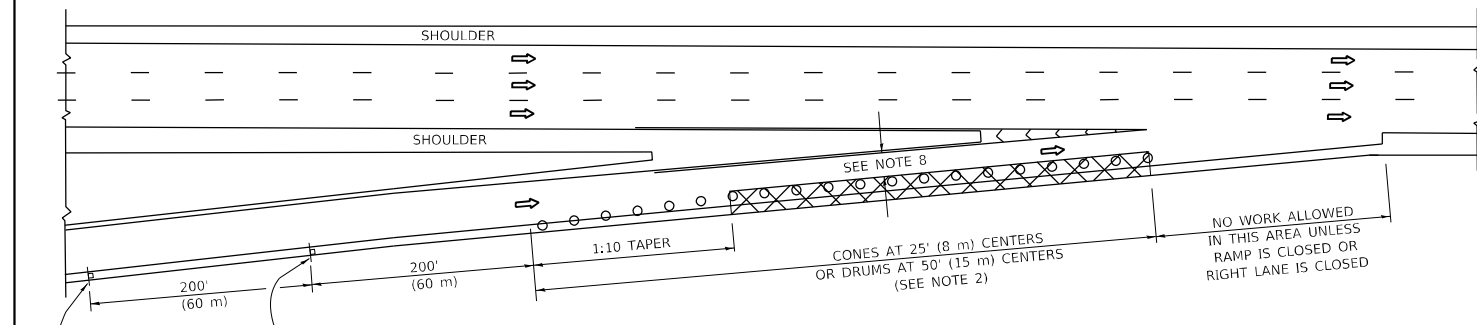
SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-16		CONTRACT NO. 62L68		
ILLINOIS FED. AID PROJECT				

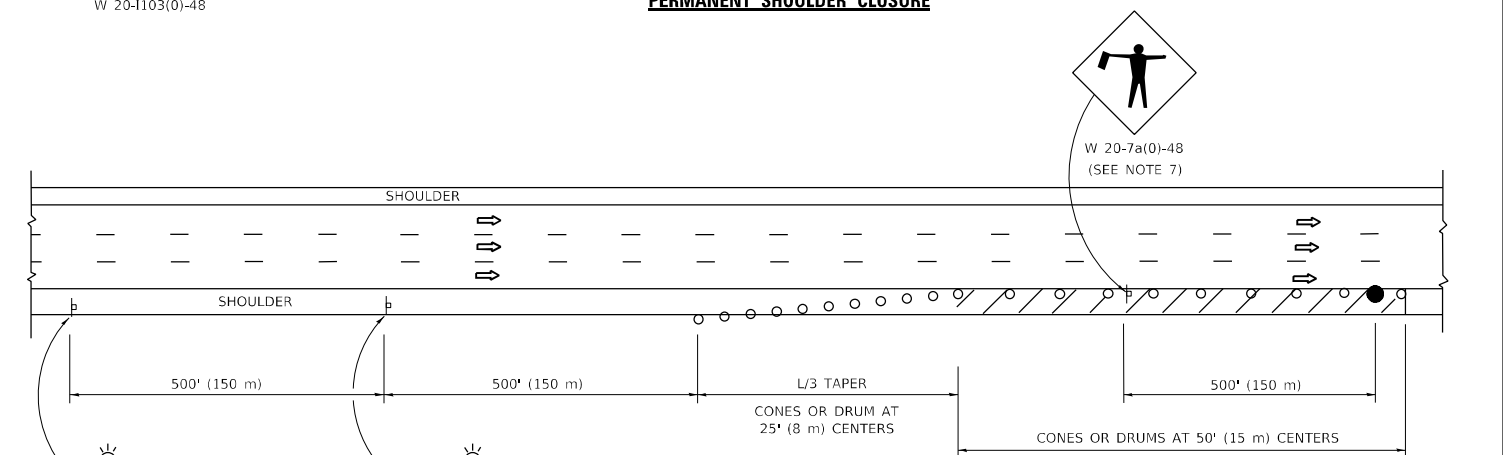
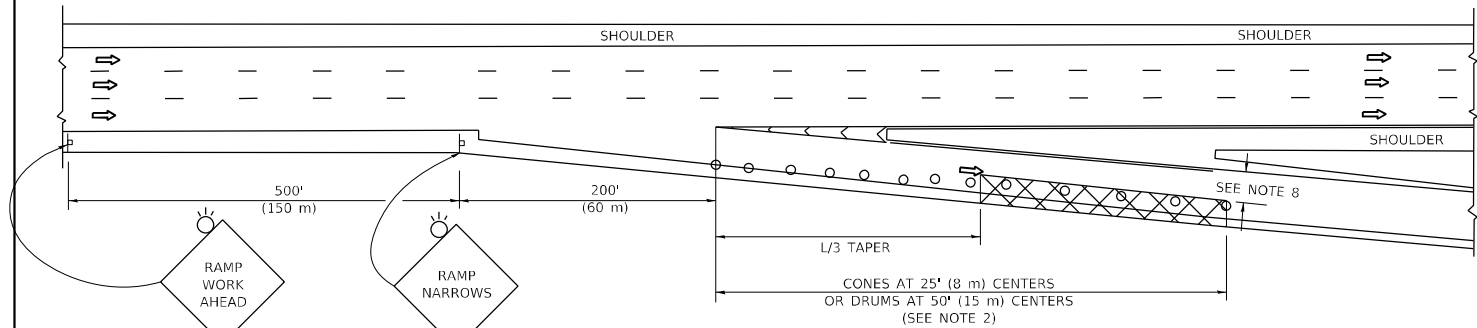
PARTIAL RAMP CLOSURE DETAILS

SHOULDER CLOSURE DETAILS



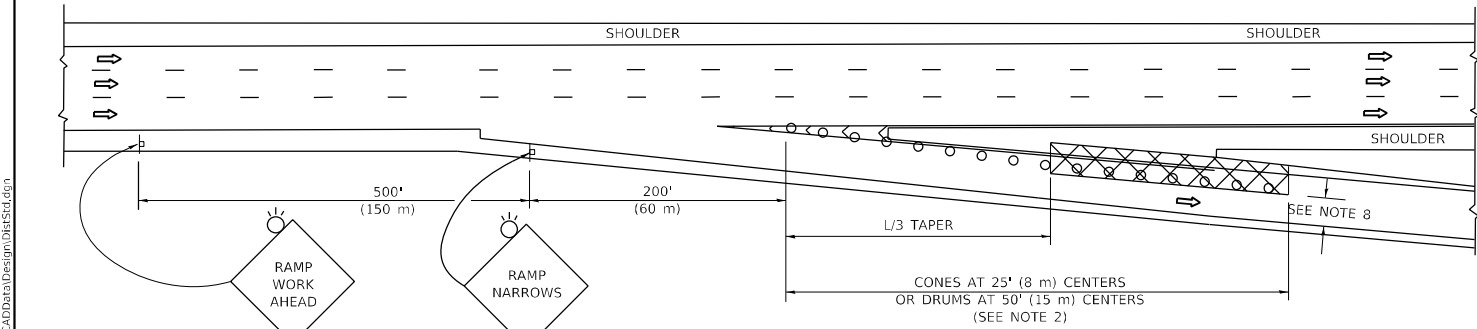
TYPICAL ENTRANCE RAMP

PERMANENT SHOULDER CLOSURE



TYPICAL EXIT RAMP

TEMPORARY SHOULDER CLOSURE



TYPICAL EXIT RAMP

SYMBOLS

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

GENERAL NOTES:

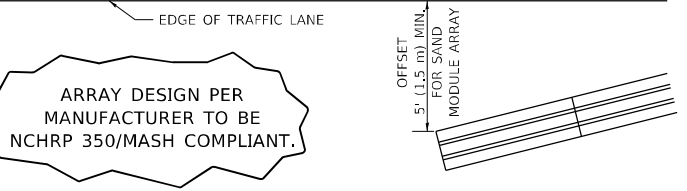
1. THE "L" DISTANCE EQUALS:

SPEED LIMIT		FORMULAS	
45 mph (80 km/h)	METRIC	L=0.65(W/S)	L=(W/S)
OR GREATER:	ENGLISH	L=(W/S)	

W = WIDTH OF OFFSET IN FEET (METERS)
S = NORMAL POSTED SPEED MPH (KM/H)
2. TYPE II BARRICADES OR DRUMS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES. TYPE II BARRICADES OR DRUMS WITH MONODIRECTIONAL STEADY BURN LIGHTS ARE REQUIRED FOR DELINEATING OBSTACLES, EXCAVATIONS, OR HAZARDS EXCEEDING 100 FT (30m) IN LENGTH AT NIGHT.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - b. THE WORK ACTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.

8. 12' MIN. WIDTH TANGENT SECTION
16' MIN. WIDTH CURVE SECTION.
9. TEMPORARY SHOULDER AND NON-SYSTEM INTERCHANGE PARTIAL RAMP CLOSURES ARE ALLOWED WEEKDAYS BETWEEN 9:00 A.M. AND 3:00 P.M. AND BETWEEN 7:00 P.M. AND 5:00 A.M. OR AS APPROVED BY THE EXPRESSWAY TRAFFIC OPERATIONS ENGINEER. PERMANENT SHOULDER AND PARTIAL RAMP CLOSURES WILL ONLY BE PERMITTED IF CALLED FOR IN THE PLANS OR AS APPROVED BY THE EXPRESSWAY OPERATIONS ENGINEER.



DETAIL "A"
IMPACT ATTENUATOR, TEMPORARY
(SEE NOTE 5)

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

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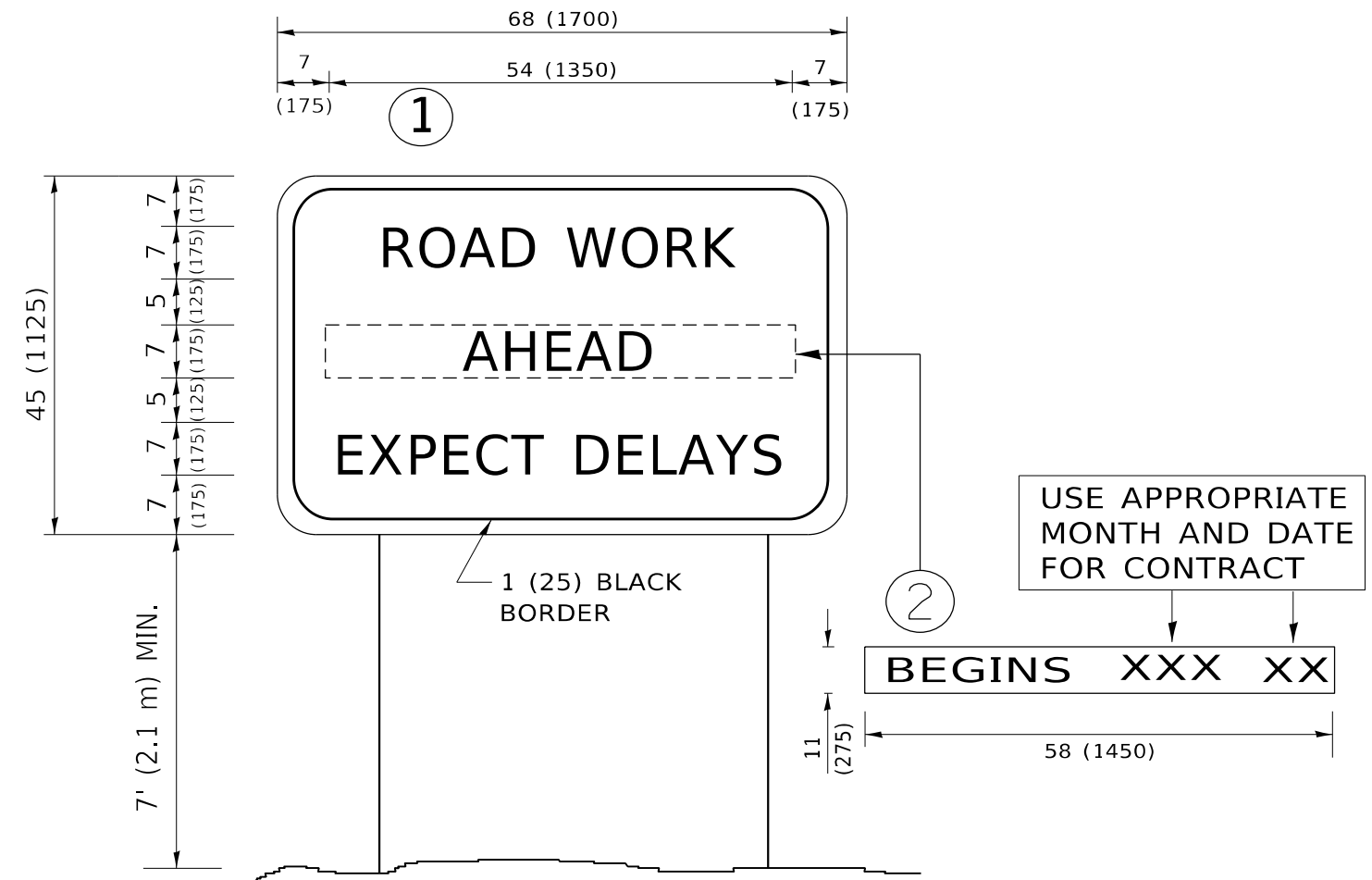
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PLOT DATE = 2/7/2022	DATE - 11-96	REVISED - M.D. 10-20

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY
SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2020-090-R5&SW	LAKE	68	60
TC-17			CONTRACT NO. 62L68	
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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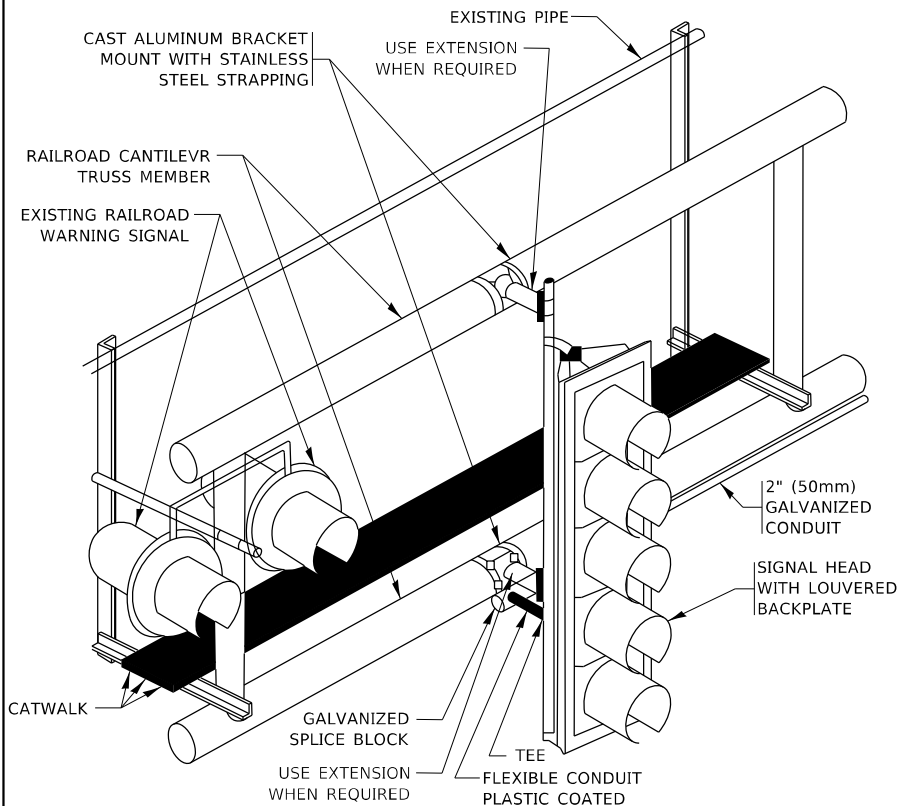
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PLOT DATE = 2/7/2022	DATE -	REVISED - C. JUCIUS 01-31-07

**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.
352	2020-090-R5&SW	LAKE	68	61
TC-22			CONTRACT NO. 62L68	
ILLINOIS FED. AID PROJECT				



RAILROAD CANTILEVER SIGNAL HEAD MOUNTING

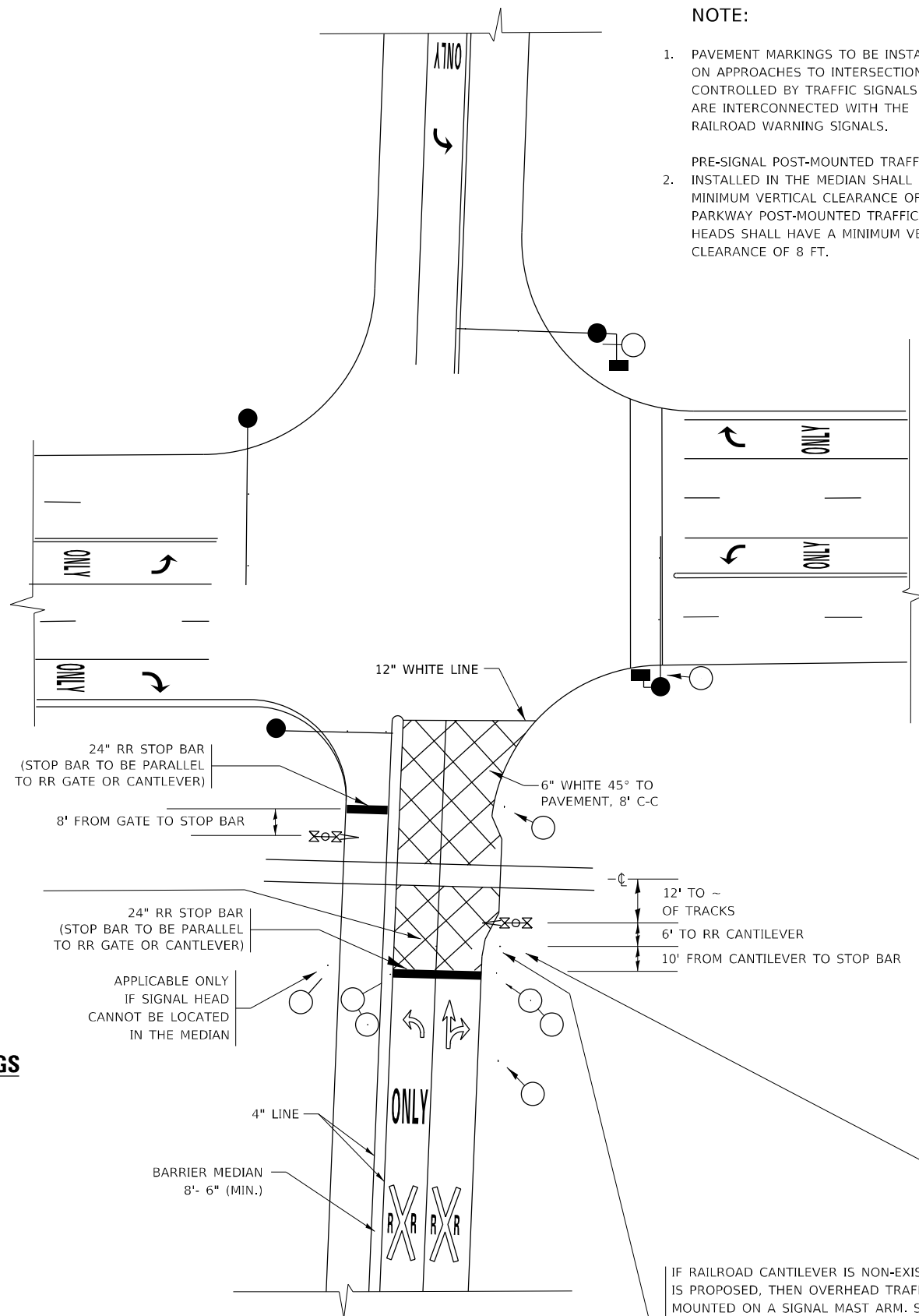
USE NON-CONDUCTIVE SPACERS BETWEEN THE TRAFFIC SIGNAL EQUIPMENT AND THE RAILROAD CANTILEVER TO PREVENT DISSIMILAR METAL CORROSION
N.T.S.

SIGNING AND PAVEMENT MARKING AT RAILROAD CROSSINGS

SIGNING AND PAVEMENT MARKING TRAFFIC CONTROL STANDARD (TC-23) HAS BEEN DEVELOPED IN CONSULTATION WITH THE ILLINOIS COMMERCE COMMISSION AND THE U.S. DEPARTMENT OF TRANSPORTATION'S GRADE CROSSING SAFETY TASK FORCE. THIS STANDARD PROVIDES INFORMATION ON UPDATES TO THE PAVEMENT MARKING AND SIGNING DETAILS IN ORDER TO INCORPORATE CHANGES ADOPTED IN THE 2009 NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICE (MUTCD). THESE NEW DETAILS HAVE BEEN STUDIED AND TESTED BY THE DEPARTMENT AND ACCEPTED BY THE ILLINOIS COMMERCE COMMISSION.

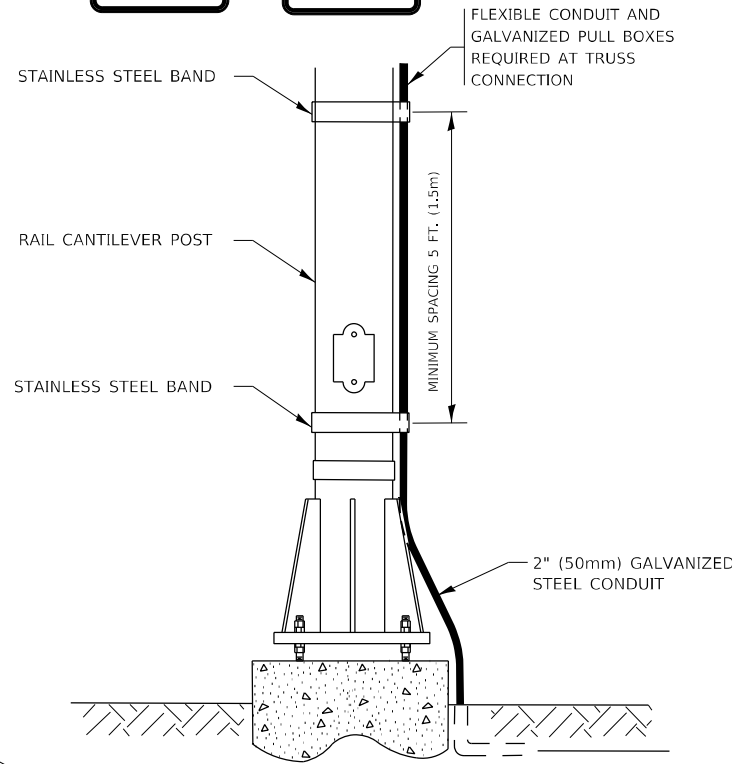
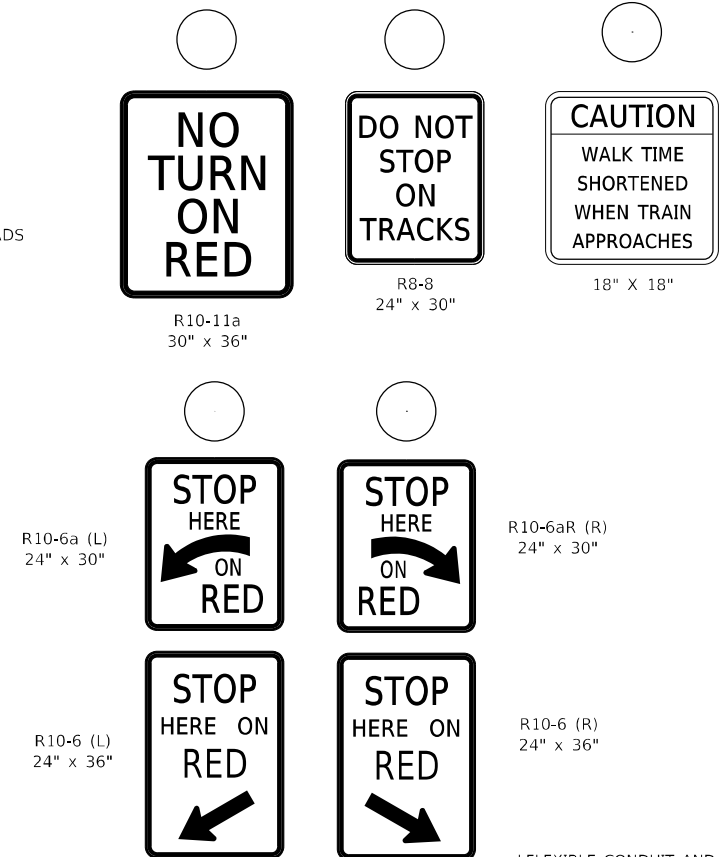
THIS APPLIES TO PROJECTS WHICH INCLUDE RAILROAD INTERCONNECTED TRAFFIC SIGNALS, WITH OR WITHOUT PRE-SIGNALS. THIS STANDARD ALSO APPLIES TO NON-SIGNALIZED INTERSECTIONS THAT ARE WITHIN 81 FEET OF A RAILROAD GRADE CROSSING. THE ILLINOIS SUPPLEMENT TO THE MUTCD SHOULD BE CONSULTED FOR ADDITIONAL INFORMATION ON SIGN REQUIREMENTS AT NON-SIGNALIZED INTERSECTIONS NEAR RAILROAD GRADE CROSSINGS.

THESE DETAILS WILL BE INCLUDED IN A FUTURE UPDATE TO THE BUREAU OF OPERATIONS TRAFFIC POLICIES AND PROCEDURES MANUAL.



SIGNALIZED INTERSECTION WITH NEAR-SIDE TRAFFIC SIGNAL

- NOTE:**
- PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
 - PRE-SIGNAL POST-MOUNTED TRAFFIC SIGNAL HEADS INSTALLED IN THE MEDIAN SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 4.5 FT. PARKWAY POST-MOUNTED TRAFFIC SIGNAL HEADS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 8 FT.



SIGNAL CONDUIT CONNECTION TO RAIL CANTILEVER DETAIL

USE NON-CONDUCTIVE SPACERS BETWEEN THE TRAFFIC SIGNAL EQUIPMENT AND THE RAILROAD CANTILEVER TO PREVENT DISSIMILAR METAL CORROSION.

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

IF RAILROAD CANTILEVER IS NON-EXISTANT AND NONE IS PROPOSED, THEN OVERHEAD TRAFFIC SIGNAL TO BE MOUNTED ON A SIGNAL MAST ARM. SIGNAL MAST ARM AND SIGNAL HEADS SHALL BE INSTALLED AS CLOSE AS PRACTICABLE TO THE RAILROAD TRACKS WITHOUT OBSTRUCTING ANY RAILROAD WARNING DEVICES. SIGNAL MAST ARM SHALL BE AT LEAST 12 FT. FROM NEAREST RAIL.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

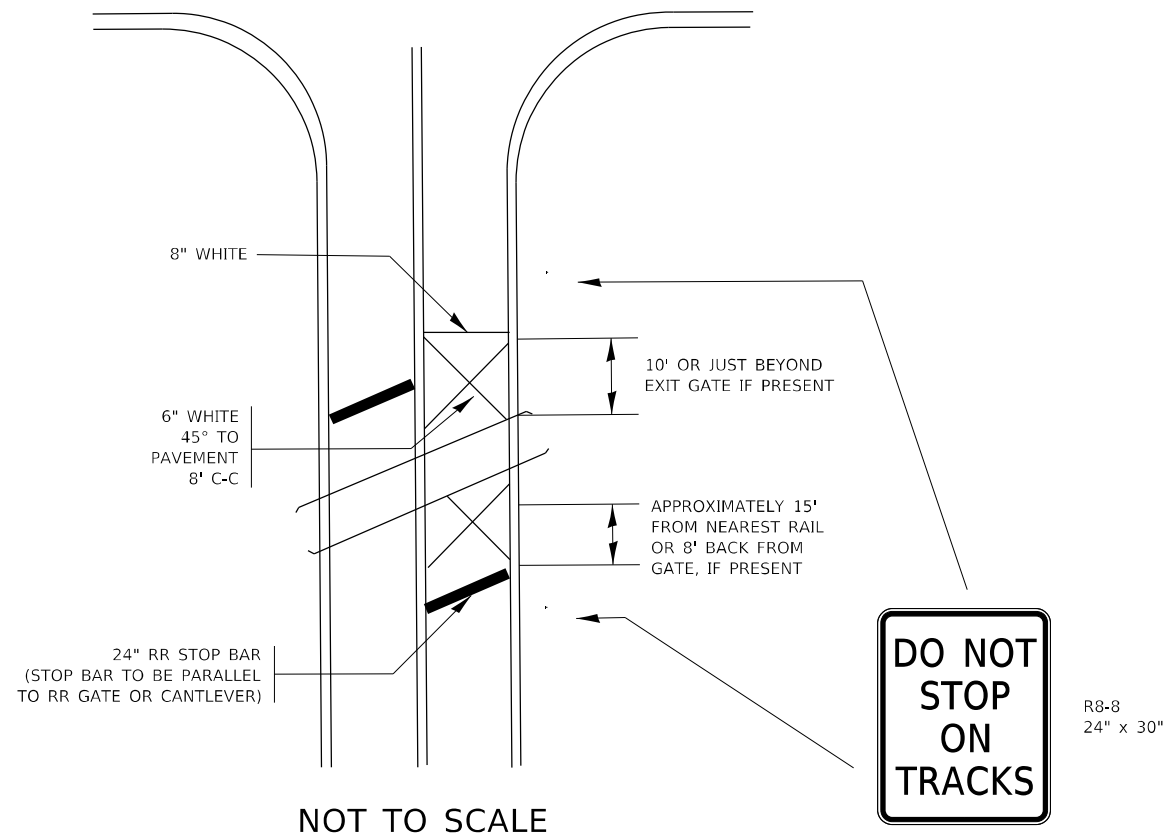
TYPICAL SUPPLEMENTAL SIGNING AND PAVEMENT MARKING
TREATMENT FOR RAILROAD CROSSINGS

SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2020-090-R5&SW	LAKE	68	62
TC-23			CONTRACT NO. 62L68	
ILLINOIS			FED. AID PROJECT	

TYPICAL SUPPLEMENTAL SIGNING AND PAVEMENT MARKING TREATMENT FOR RAILROAD CROSSINGS

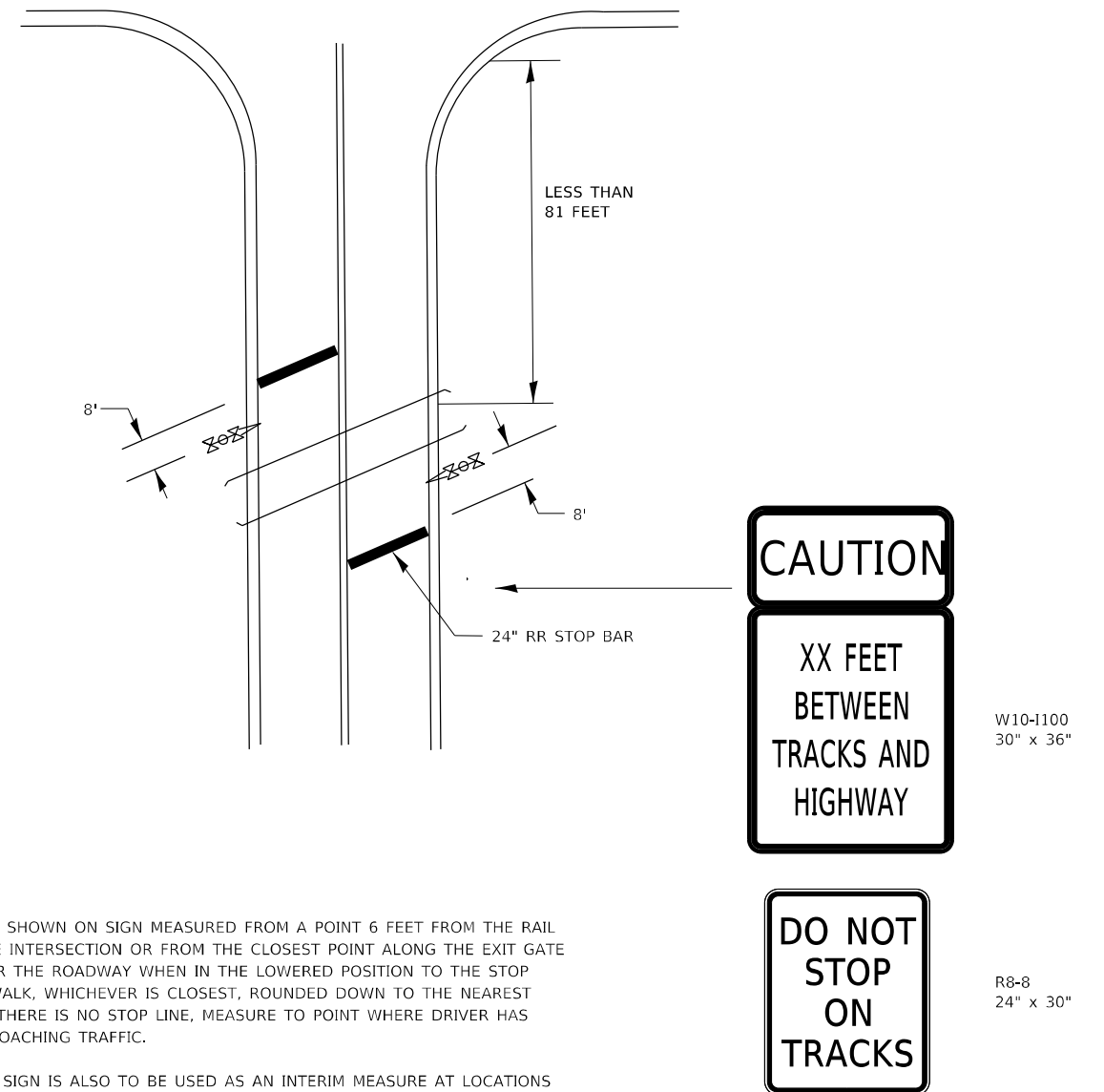
WITH SIGNALIZED INTERSECTION



NOTE:

- PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
- WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED THE PAVEMENT MARKINGS EXTEND TO THE INTERSECTION. (SEE DETAIL FOR PRE-SIGNALS).

WITH NON-SIGNALIZED INTERSECTION 81' OR LESS TO CLOSEST RAIL



NOTE:

- DISTANCE TO BE SHOWN ON SIGN MEASURED FROM A POINT 6 FEET FROM THE RAIL CLOSEST TO THE INTERSECTION OR FROM THE CLOSEST POINT ALONG THE EXIT GATE IF PRESENT OVER THE ROADWAY WHEN IN THE LOWERED POSITION TO THE STOP BAR OR CROSSWALK, WHICHEVER IS CLOSEST, ROUNDED DOWN TO THE NEAREST 5 FEET. WHERE THERE IS NO STOP LINE, MEASURE TO POINT WHERE DRIVER HAS A VIEW OF APPROACHING TRAFFIC.
- THE CLEARANCE SIGN IS ALSO TO BE USED AS AN INTERIM MEASURE AT LOCATIONS WITH INTERCONNECTED INTERSECTION TRAFFIC SIGNALS WHERE IT IS PLANNED TO CHANGE THEM TO NEAR-SIDE SIGNALS AT A FUTURE TIME. IN THIS CASE, THE DISTANCE TO BE SHOWN ON THE SIGN IS MEASURED FROM THE EDGE OF THE STRIPED-OUT AREA INSTEAD OF 6 FEET FROM THE RAIL. THE SIGN IS TO BE REMOVED WHEN THE NEAR-SIDE SIGNALS ARE INSTALLED AND THE PAVEMENT MARKING EXTEND TO THE INTERSECTION.

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

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

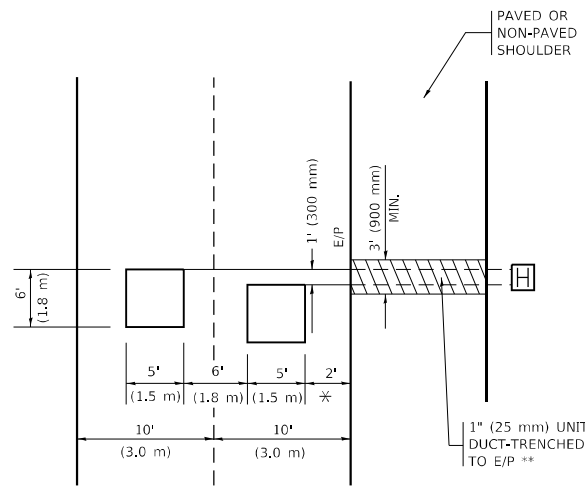
TYPICAL SUPPLEMENTAL SIGNING AND PAVEMENT MARKING
TREATMENT FOR RAILROAD CROSSINGS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2020-090-R5&SW	LAKE	68	63
TC-23			CONTRACT NO. 62L68	
ILLINOIS FED. AID PROJECT				

LOOPS NEXT TO SHOULDERS

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

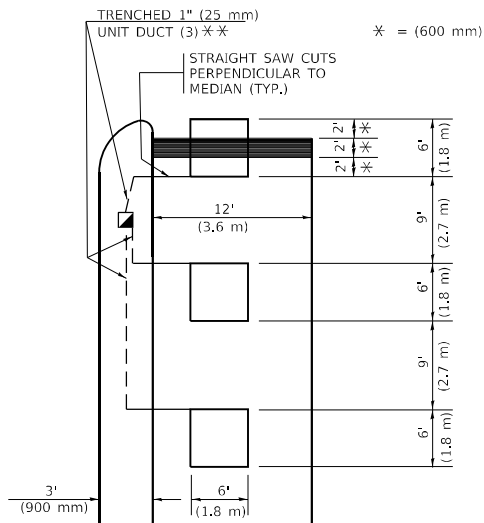


* = (600 mm)

** 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.

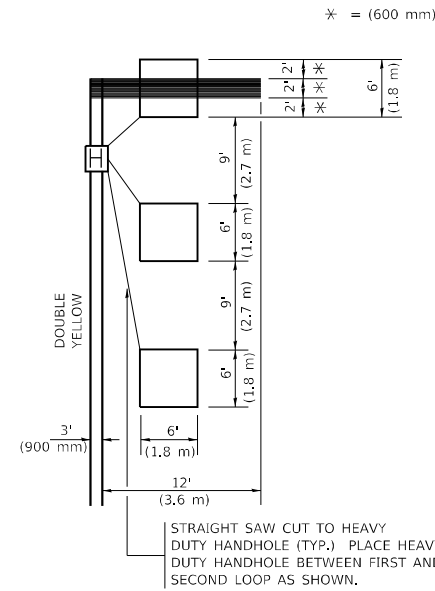


* = (600 mm)

** 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.

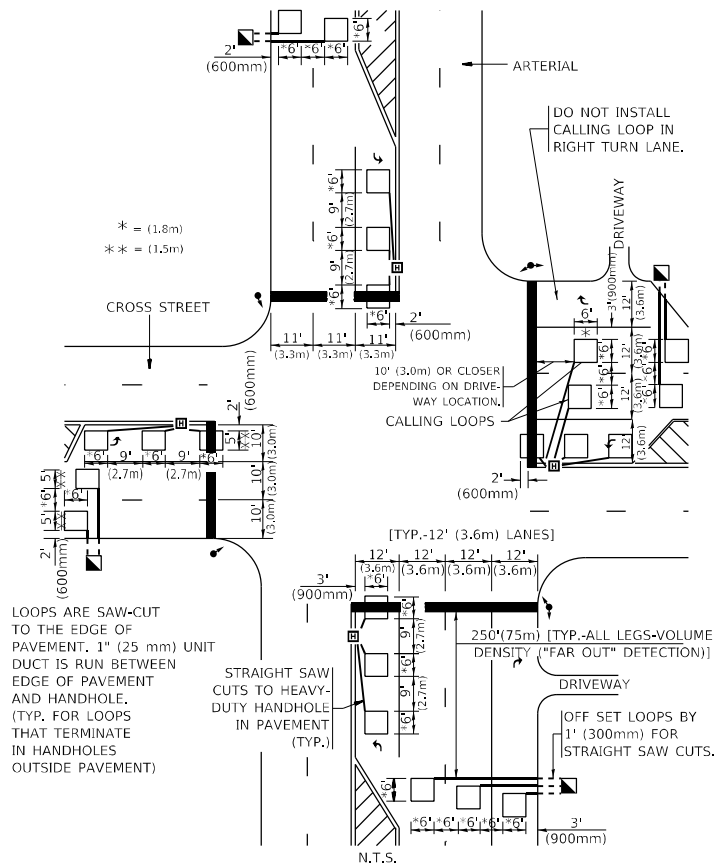
"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0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

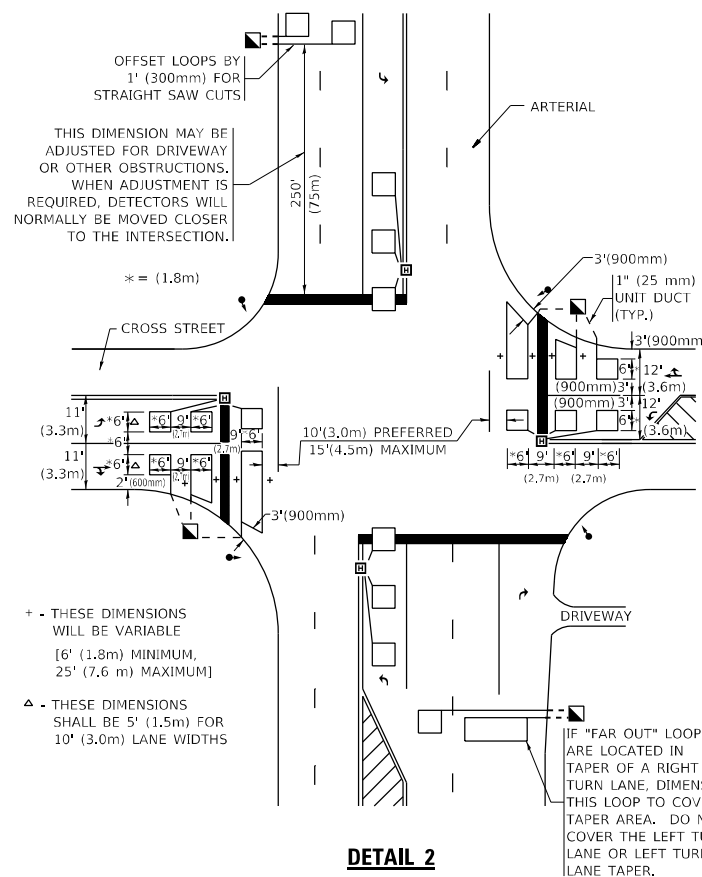
ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-NON VOLUME DENSITY ("FAR OUT" DETECTION)



* = (1.8m)
** = (1.5m)

DETAIL 1
N.T.S.

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



+ - THESE DIMENSIONS WILL BE VARIABLE [6' (1.8m) MINIMUM, 25' (7.6 m) MAXIMUM]
▲ - THESE DIMENSIONS SHALL BE 5' (1.5m) FOR 10' (3.0m) LANE WIDTHS

DETAIL 2
N.T.S.

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	DRAWN -	REVISED -
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PLOT DATE = 2/7/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

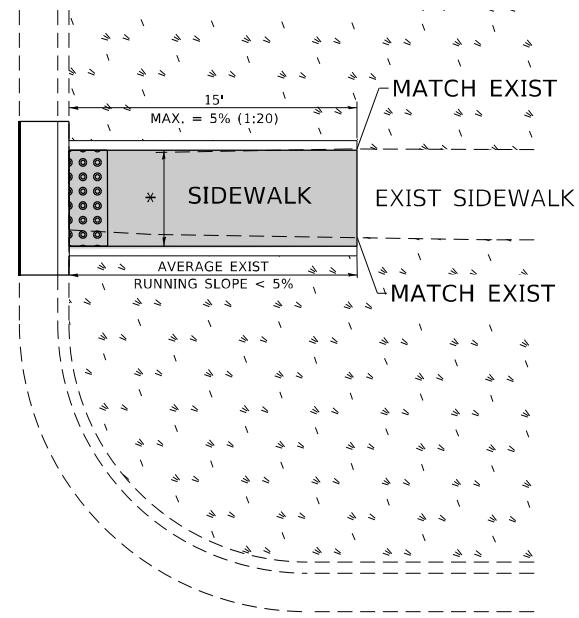
DISTRICT 1 - DETECTOR LOOP INSTALLATION
DETAILS FOR ROADWAY RESURFACING

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

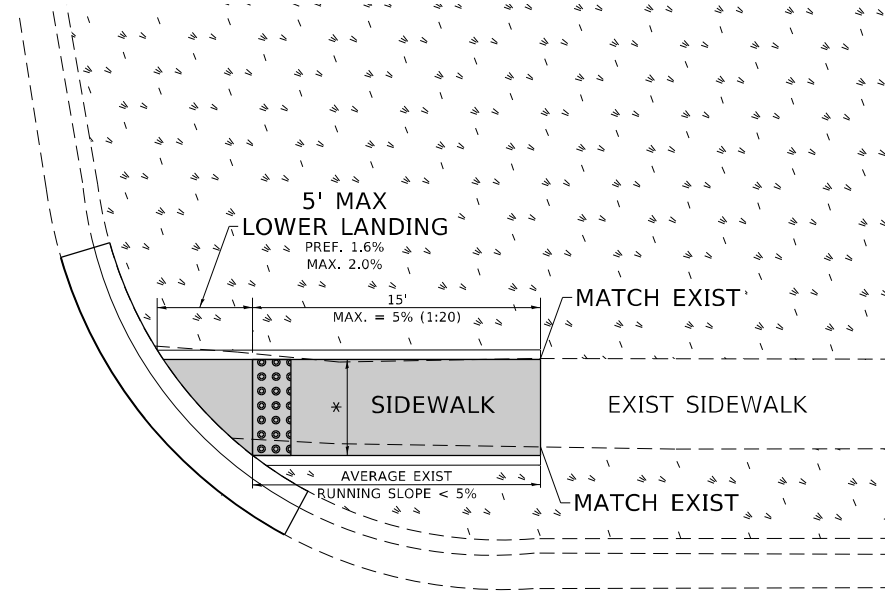
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2020-090-R5&SW	LAKE	68	64
TS-07		CONTRACT NO. 62L68		
ILLINOIS FED. AID PROJECT				

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

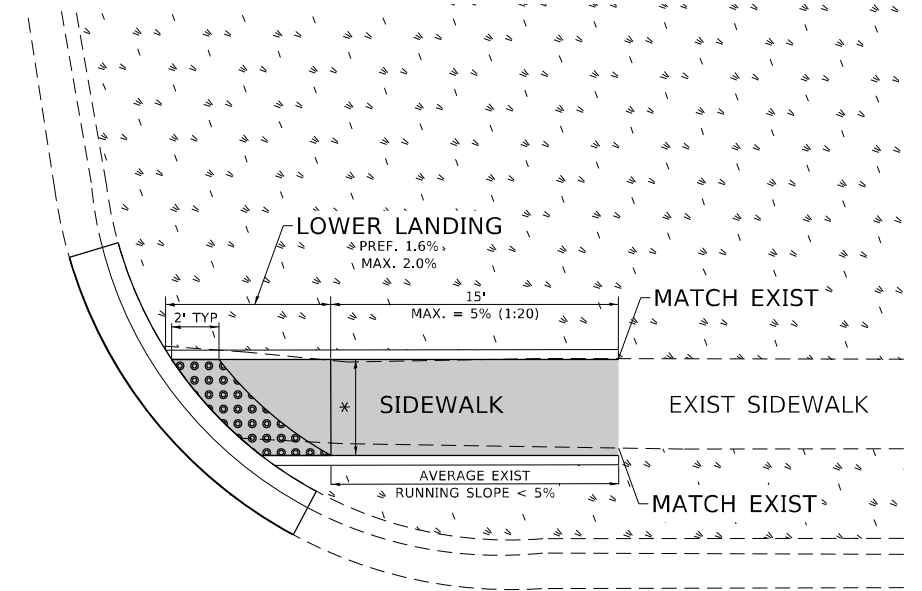
PD-01A



PD-01B



PD-01C



LEGEND

- 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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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

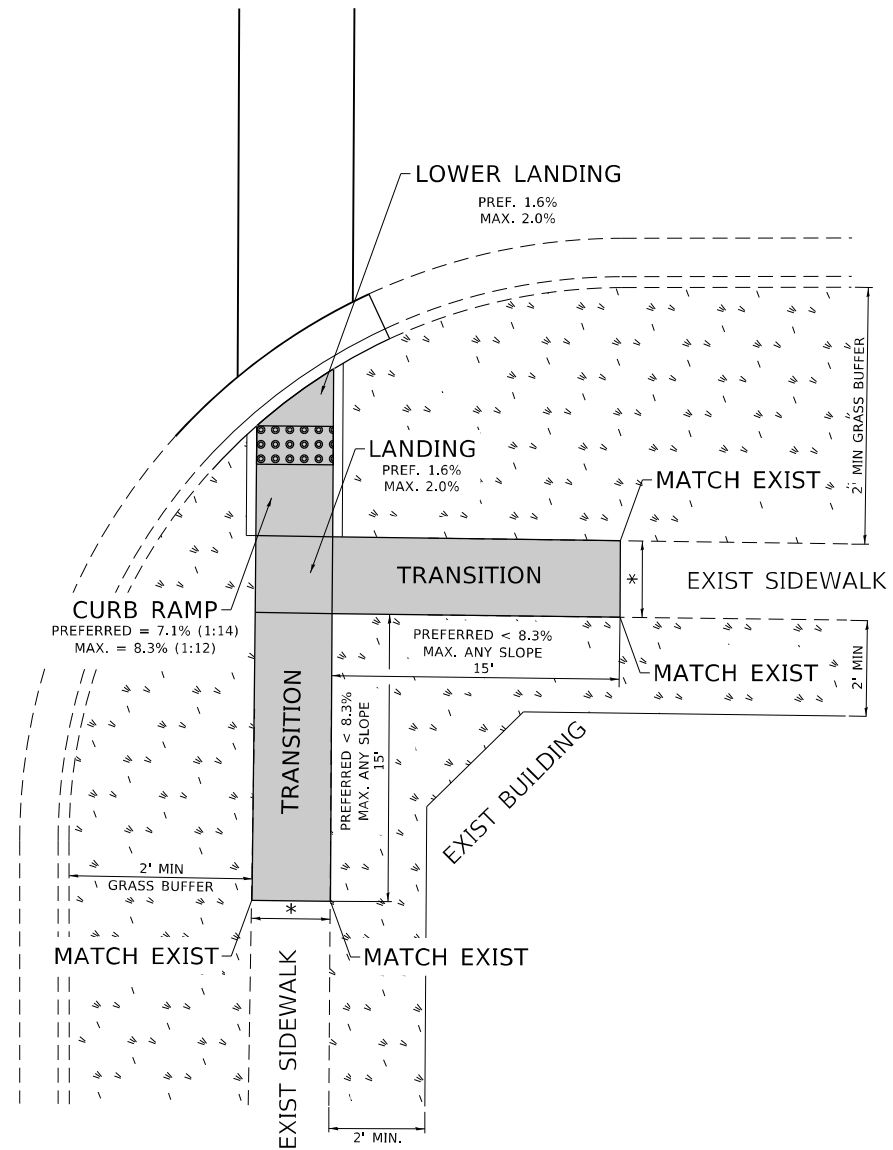
**PROJECT DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS
(PD-01)**

SCALE: NONE SHEET OF SHEETS STA. TO STA.

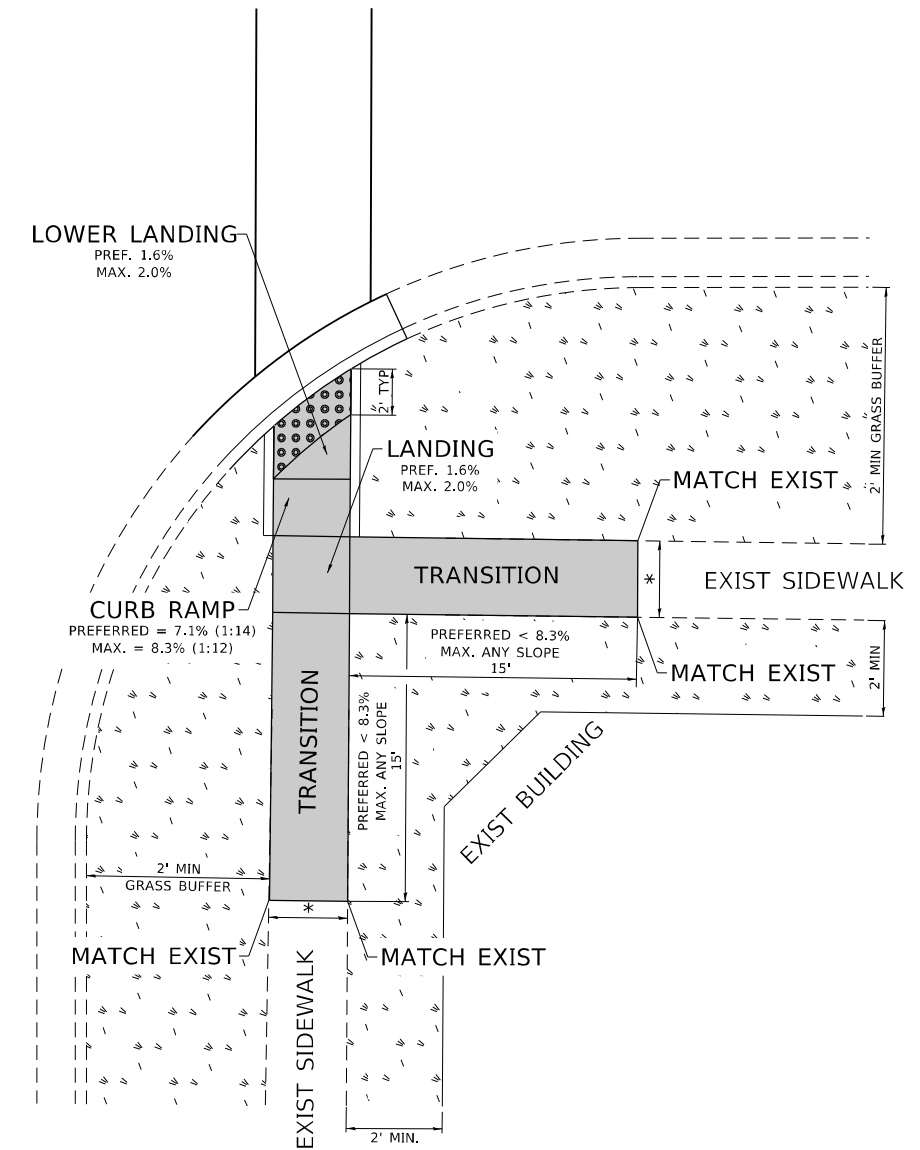
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352	2020-090-R5&SW	LAKE	68	65
PD-01		CONTRACT NO. 62L68		
ILLINOIS FED. AID PROJECT				

ADA DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS W/ TURNING SPACE

PD-04A



PD-04B



LEGEND

- EXIST. GRASS
- PROPOSED SIDE CURB
- 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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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

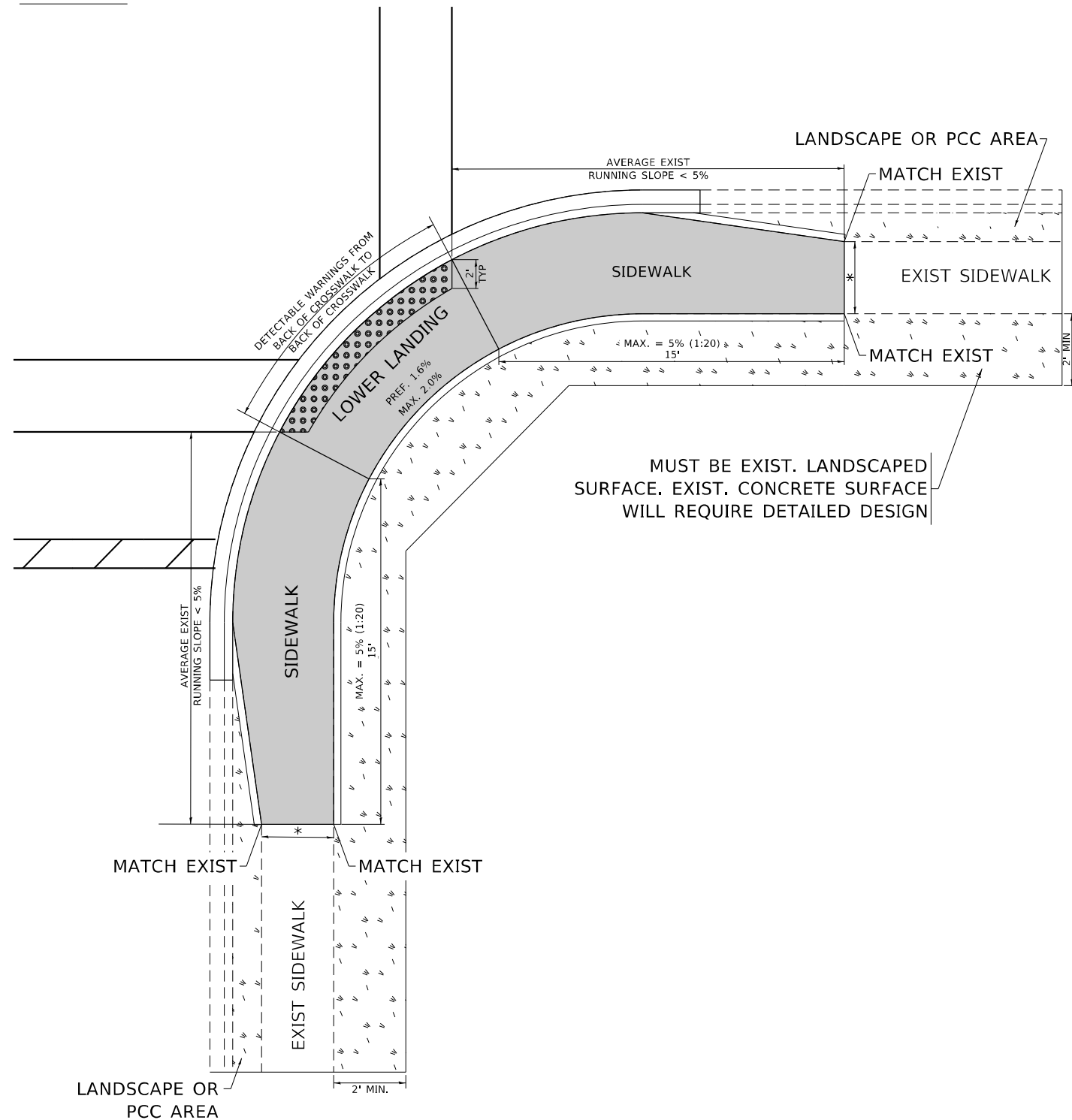
**PROJECT DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS WITH
TURNING SPACE (PD-04)**

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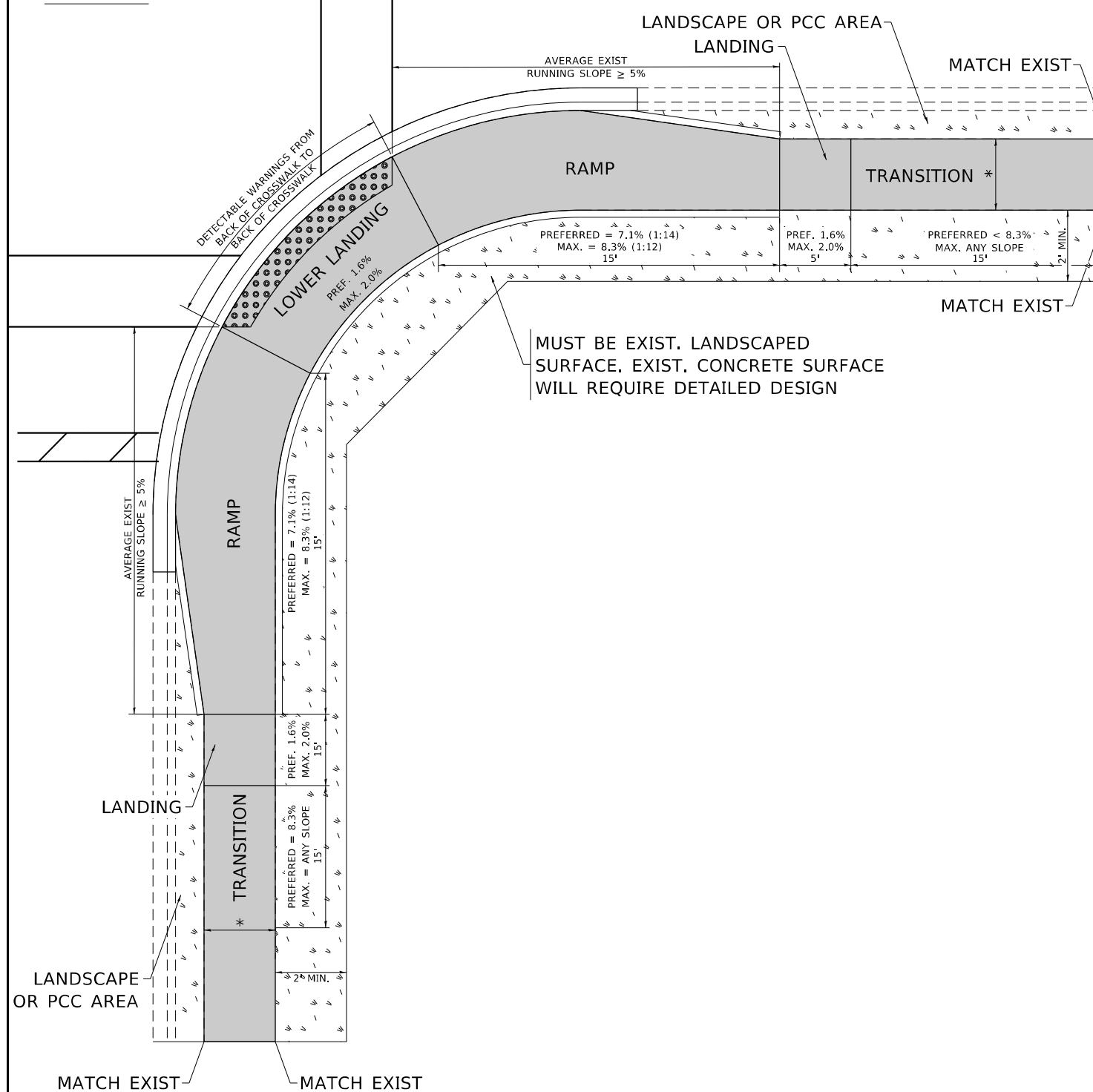
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352	2020-090-R5&SW	LAKE	68	66
PD-04		CONTRACT NO. 62L68		
		ILLINOIS FED. AID PROJECT		

ADA DETAIL FOR PARALLEL CURB RAMPS ADJACENT TO LANDSCAPING

PD-06A



PD-06B



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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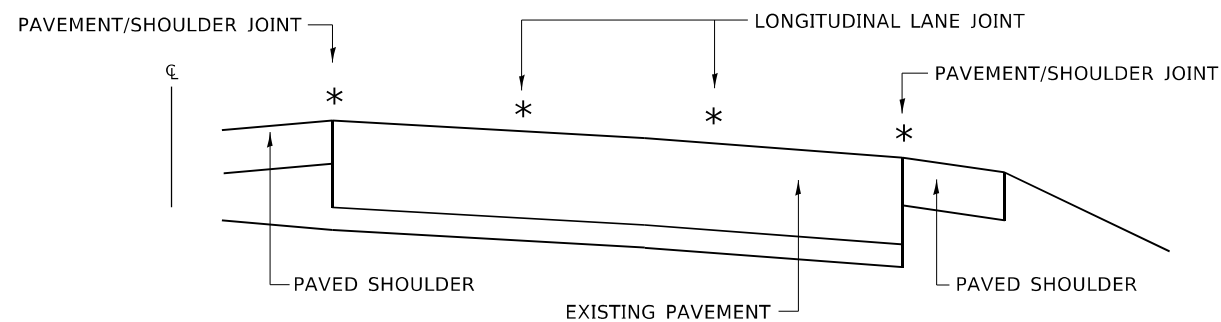
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

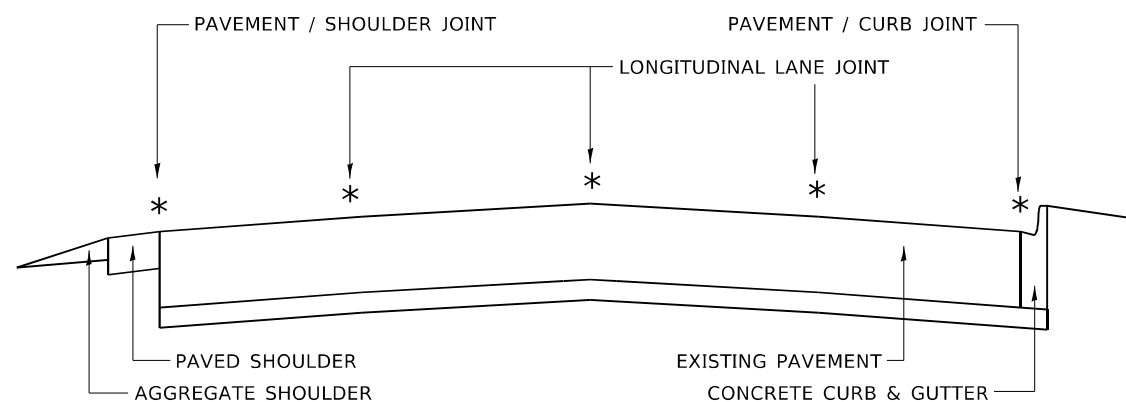
**PROJECT DETAIL FOR PARALLEL CURB RAMPS
(PD-06)**

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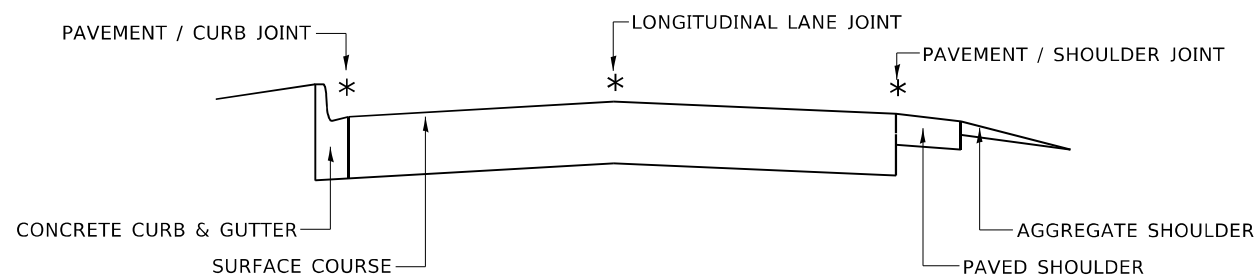
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352	2020-090-R5&SW	LAKE	68	67
PD-06		CONTRACT NO. 62L68		
ILLINOIS FED. AID PROJECT				



MULTI-LANE DIVIDED PAVEMENT



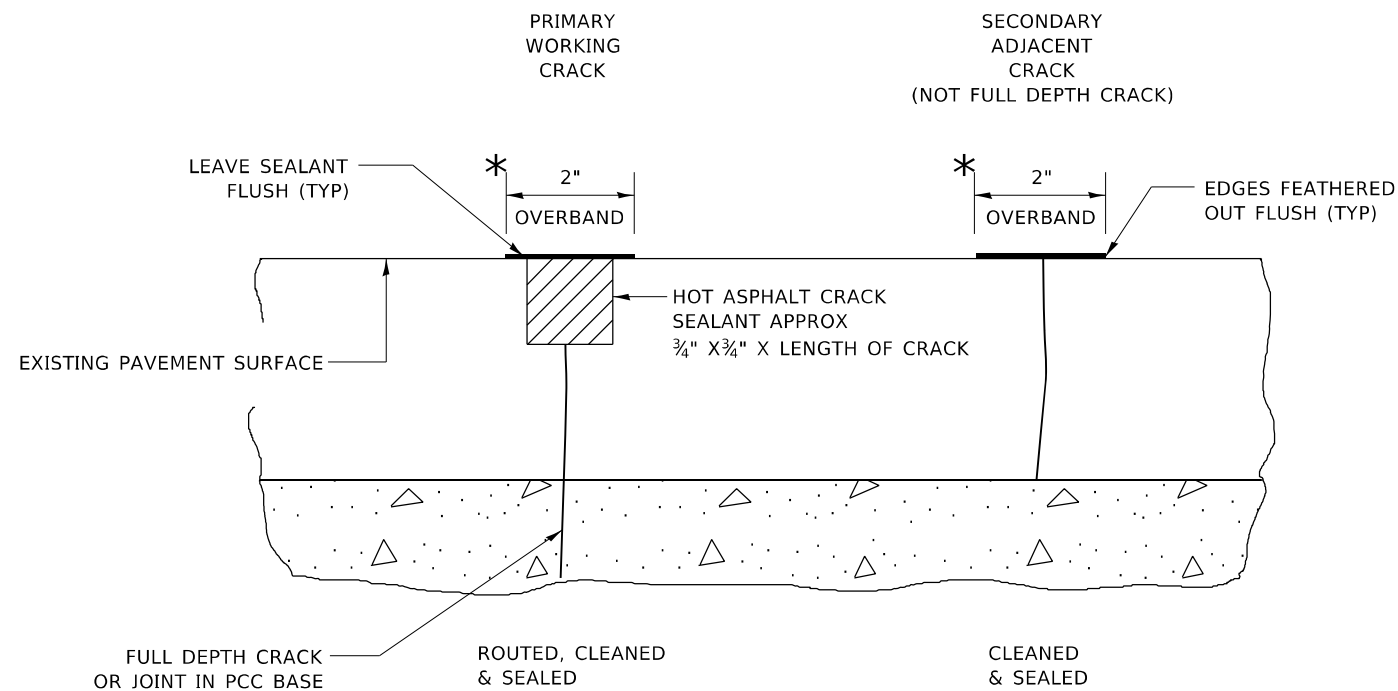
MULTI-LANE UNDIVIDED PAVEMENT



TWO-LANE PAVEMENT

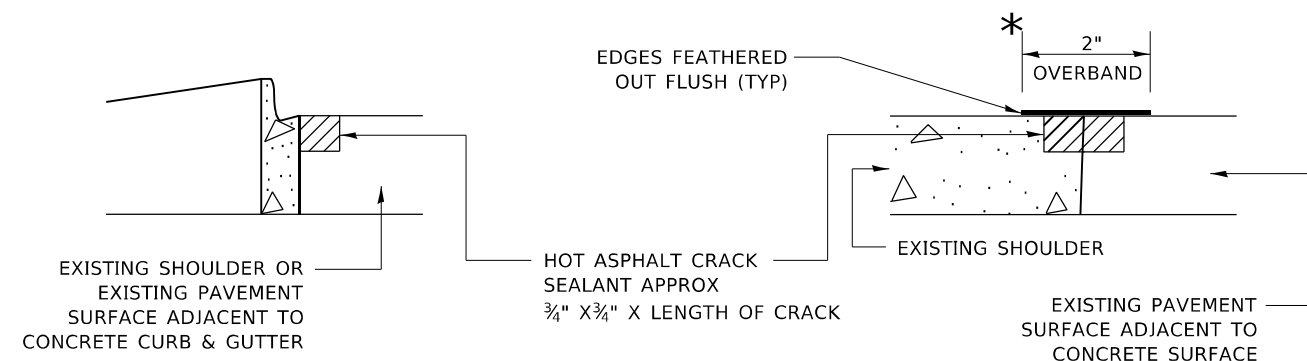
* PROPOSED LONGITUDINAL CRACK ROUTING (PAVEMENT) & CRACK FILLING LOCATIONS

**GENERAL EXISTING TYPICAL SECTIONS
(APPLIES TO HMA AND PCC PAVEMENTS)**



* IN ALL LOCATIONS WHERE THE LONGITUDINAL CRACK CONFLICTS WITH EXISTING PAVEMENT MARKINGS (EITHER EDGE LINE OR LANE LINE) THE CRACK SHALL BE ROUTED & THE RESULTING RESERVOIR FILLED WITH SEALANT. ALL DAMAGES TO EXISTING RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR. ALL EXISTING PAVEMENT MARKINGS WITHIN THE PROJECT LIMITS SHALL BE RESTORED WITH MODIFIED URETHANE PAVEMENT MARKINGS.

LONGITUDINAL JOINT



CRACK & JOINT SEALING DETAIL

MODEL: Default
FILE NAME: \\pulsar\pub\hwy\dot\documents\1\DOT\office\shirley\11\project\1148920\CADD\data\Design\BtStEd.dgn

USER NAME = rostkowski	DESIGNED - F. Aqueel / A. Midy	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 2/7/2022	DATE - 10/08/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CRACK & JOINT SEALING DETAIL (PD-11)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2020-090-R5&SW	LAKE	68	68
CONTRACT NO. 62L68				
ILLINOIS FED. AID PROJECT				