

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F A P RATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2018 136 RS SW	LAKE	66	1
		ILLINOIS	CONTRACT NO. 62H69	

PROJECT LOCATED IN THE CITY OF NORTH CHICAGO

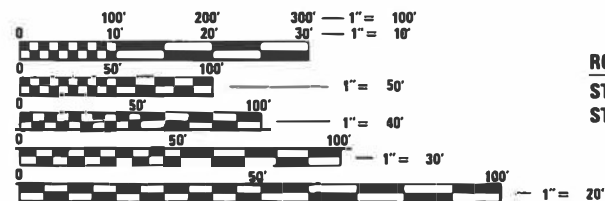
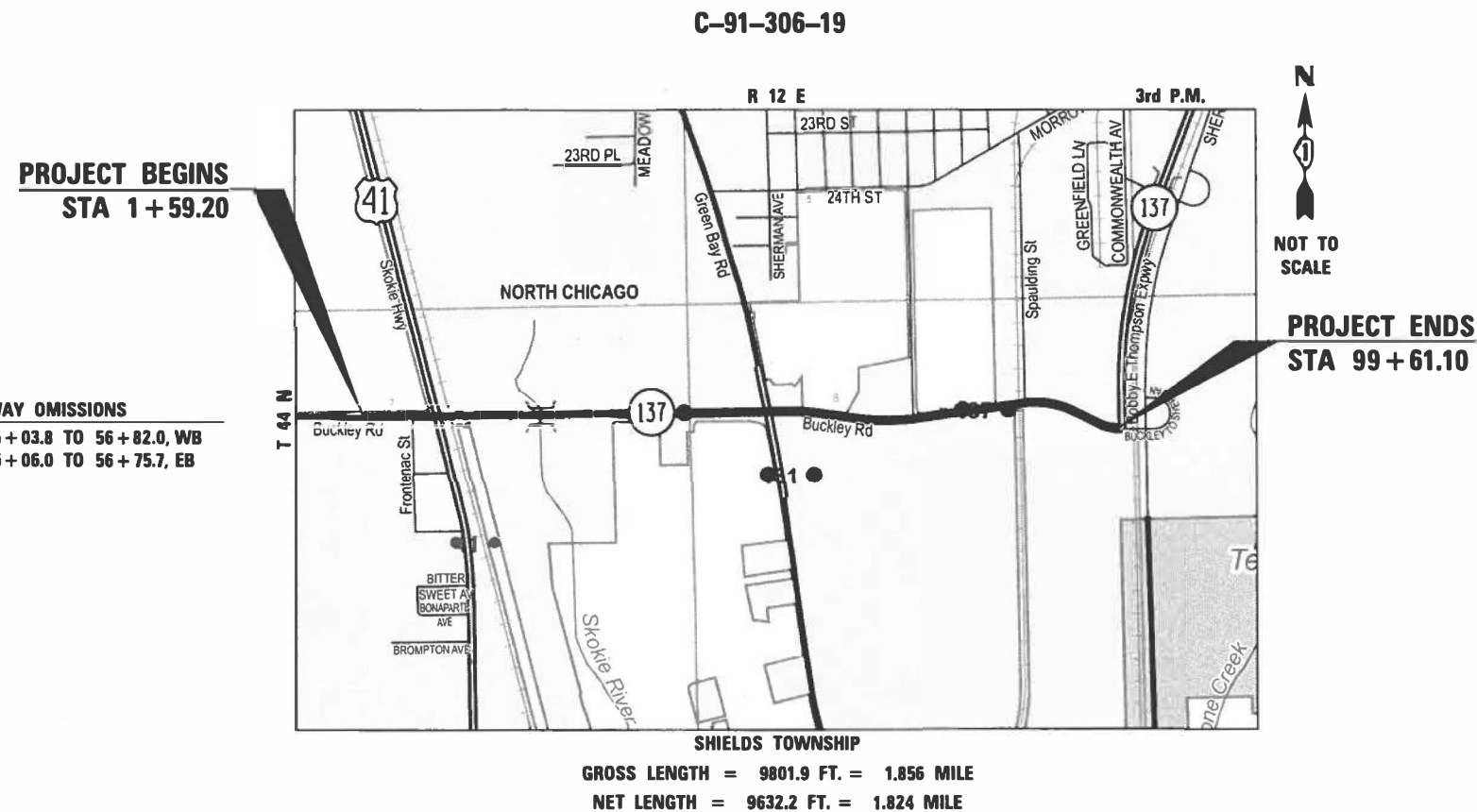
TRAFFIC DATA  
2019 ADT = 21,000 VPD

POSTED SPEED LIMIT  
VARIES 30 TO 35 MPH

# PROPOSED HIGHWAY PLANS

FAP ROUTE 352 (IL 137 BUCKLEY RD)  
W OF FRONTENAC ST TO IL 137  
(BOBBY THOMPSON EXPWY)  
SECTION 2018-136-RS-SW  
PROJECT NHPP-XCCY(352)  
DESIGNED OVERLAY, ADA IMPROVEMENTS  
LAKE COUNTY

D-91-102-19



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

ROADWAY OMISSIONS  
STA 55 + 03.8 TO 56 + 82.0, WB  
STA 55 + 06.0 TO 56 + 75.7, EB

GROSS LENGTH = 9801.9 FT. = 1.856 MILE  
NET LENGTH = 9632.2 FT. = 1.824 MILE

PROJECT ENGINEER: VESELIN VELICHKOV (847) 705-4432  
PROJECT MANAGER: FAWAD AQUEEL

CONTRACT NO. 62H69



December 8, 20 21

BRYAN C. DONZE  
ILLINOIS REG. PROFESSIONAL ENGINEER NO. 062-070587  
EXPIRATION DATE 11-30-2023

**Kaskaskia**  
Engineering Group, LLC  
477 South Third Street  
Suite 280  
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PROFESSIONAL REGISTRATIONS  
Illinois Professional Design Firm  
Professional Engineering Group

LICENSE NO.  
184,004773  
26-5080586

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED December 9, 2021  
Joe Rio REGIONAL ENGINEER  
February 4, 2022  
[Signature] ENGINEER OF DESIGN AND ENVIRONMENT  
February 4, 2022  
Stephen M. [Signature] DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 2

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OF THE STATE OF ILLINOIS

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424006-05	DIAGONAL CURB RAMPS FOR SIDEWALK
424011-04	CORNER PARALLEL CURB RAMPS FOR SIDEWALK
424021-06	DEPRESSED CORNER FOR SIDEWALK
442701-03	CLASS C AND D PATCHES
604001-05	FRAME AND LIDS, TYPE 1
604091-05	FRAME AND GRATE, TYPE 24
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
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
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., 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
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780001-05	TYPICAL PAVEMENT MARKINGS
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873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
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## GENERAL NOTES

- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE UTILITY COMPANIES AND THE CITY OF NORTH CHICAGO. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOUR NOTIFICATION REQUIRED).
- THE CONTRACTOR WILL NOT BE ALLOWED TO SETUP A YARD FOR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSIONS FROM THE DEPARTMENT.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE A FIELD LABORATORY FOR USE FOR ANY ON SITE TESTING BY THE ENVIRONMENTAL FIRM. NO TESTING OF ANY KIND, CONTAMINATED OR NON-CONTAMINATED FLUID OR SOLID SHALL BE PERMITTED IN THE ENGINEER'S FIELD OFFICE.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION ACTIVITIES.
- BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE 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.
- TEN (10) FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTERS AND MEDIAN ITEMS OF WORK TO EXISTING CURBS AND GUTTER AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.
- LIMITS OF RESURFACING ON SIDE STREETS THROUGHOUT THE PROJECT SHALL BE TO THE RADIUS RETURN, UNLESS OTHERWISE SHOWN ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER / TECHNICIAN.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- ALL PAVEMENT PATCHING, CURB AND GUTTER REMOVAL AND REPLACEMENT, DRAINAGE ADJUSTMENT LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS, AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH. WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING SLOPE IS A MINIMUM OF 1:3 (V:H).
- BUTT JOINTS SHALL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.
- DOUBLE LANE MARKERS SHALL BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHEET INCLUDED IN THE PLANS.
- 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.
- THE RESIDENT ENGINEER SHALL CONTACT MR. WALTER CZARNY, AREA TRAFFIC FIELD ENGINEER, VIA EMAIL AT WALTER.CZARNY@ILLINOIS.GOV, A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- ALL FINAL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC PAVEMENT MARKINGS (OF THE EXTRUDED TYPE).
- PROPOSED SIDEWALK RAMPS SHALL CONFORM TO CURRENT ADA REQUIREMENTS, APPLICABLE STATE HIGHWAY STANDARDS, AND THESE PLANS, OR AS DETERMINED BY THE ENGINEER.
- SAW CUTTING (FULL DEPTH) WILL NOT BE MEASURED SEPARATELY FOR PAYMENT BUT SHALL BE INCLUDED IN THE COST OF "PAVEMENT REMOVAL".
- A MAINTENANCE OF CONSENT LETTER HAS BEEN REQUESTED AND SHALL BE PROVIDED BY THE UNION PACIFIC RAILROAD WITH FOLDER NUMBER \_\_\_\_\_.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- 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 SEPARATE PAY ITEM HAS BEEN PROVIDED.
- 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 IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA MIXTURE IS PLACED.
- GEOTECHNICAL FABRIC FOR GROUND STABILIZATION AND/OR AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAVE BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ABOVE ITEM WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE SSRBC AND IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.
- ANY AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENTS IS TO BE REMOVED AND REPLACED AS DIRECT BY THE ENGINEER AT CONTRACTOR EXPENSE.

## TRAFFIC SIGNAL NOTES

- BEFORE STARTING 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, 48 HOUR NOTIFICATION IS REQUIRED.
- THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA.GOV 72 HOURS IN ADVANCE OF BEGINNING WORK.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION, THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARM LENGTHS.
- ALL EXISTING R.O.W. SHOWN IS APPROXIMATE AND MAY NEED TO BE VERIFIED IN THE FIELD. ANY R.O.W. CONFLICTS SHALL BE COORDINATED WITH THE RESIDENT ENGINEER.
- THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK, FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811, IN THE CITY OF CHICAGO CONTACT DIGGER AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).
- IF THIS CONTRACT REQUIRES THE SERVICES OF AN ELECTRICAL CONTRACTOR, THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS/HER OWN EXPENSE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES PRIOR TO PERFORMING ANY WORK. IF THIS CONTRACT DOES NOT REQUIRE THE SERVICES OF AN ELECTRICAL CONTRACTOR, THE CONTRACTOR MAY REQUEST ONE FREE LOCATE FOR EXISTING IDOT ELECTRICAL FACILITIES FROM DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR PRIOR TO THE START OF ANY WORK, ADDITIONAL REQUESTS MAY BE AT THE EXPENSE OF THE CONTRACTOR. THE LOCATION OF UNDERGROUND TRAFFIC FACILITIES DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO REPAIR ANY FACILITY DAMAGED DURING CONSTRUCTION AT THEIR EXPENSE.
- THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR UNDERGROUND AND OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL NOTIFY THE AREA ENGINEER, THE RESIDENT ENGINEER AND ANY IMPACTED UTILITY COMPANY OF THE CONFLICT, AND SHALL COORDINATE AND RESOLVE THE ISSUE PRIOR TO ORDERING MATERIALS, AND PRIOR TO POURING FOUNDATIONS.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.
- RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.
- PARTIAL PAYMENT AS DESCRIBED IN ARTICLE 109.07(b) OF THE STANDARD SPECIFICATION WILL NOT BE ALLOWED FOR ITEMS INCLUDED IN THIS CONTRACT.
- LOCATIONS WITH PEDESTRIAN EQUIPMENT HAVE BEEN DESIGNED TO BE ADA COMPLIANT, ANY DEVIATION FROM THE PLANS FOR TRAFFIC SIGNAL MAST ARM/POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO INSURE ADA COMPLIANCE.

### STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

### GENERAL NOTES, INDEX OF SHEETS & HIGHWAY STANDARDS IL 137 (BUCKLEY RD) - W FRONTENAC ST TO IL 137 (BOBBY THOMPSON EXPWY)



USER NAME = rjd	DESIGNED -	REVISED -
PLOT SCALE = 0.0833' / in.	CHECKED - BCD	REVISED -
PLOT DATE = 12/22/2021	DATE - 12/10/2021	REVISED -

SCALE:	SHEET 1 OF 1 SHEETS	STA. TO STA.	F.A.P. RTE. 352	SECTION 2018-136-R5-SW	COUNTY LAKE	TOTAL SHEETS 66	SHEET NO. 2
						CONTRACT NO. 62H69	
						ILLINOIS FED. AID PROJECT	

MODEL: Default  
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1979 South 5th  
Normal, Illinois 62555  
618.267.1111  
Professional Engineering Group



CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	CONSTRUCTION CODE		
				80% FED 20% STATE ROADWAY	100% STATE ROADWAY	80% FED 20% STATE TRAFFIC SIGNAL
				0005	0005	0021
				URBAN	URBAN	URBAN
20200100	EARTH EXCAVATION	CU YD	279	279		
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	169	169		
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	190	190		
25200110	SODDING, SALT TOLERANT	SQ YD	190	190		
25200200	SUPPLEMENTAL WATERING	UNIT	1	1		
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	56	56		
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	675	675		
35300205	PORTLAND CEMENT CONCRETE BASE COURSE 7 1/4"	SQ YD	255	255		
35300315	PORTLAND CEMENT CONCRETE BASE COURSE 8 3/4"	SQ YD	421	421		
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	54,636	54,636		
40600370	LONGITUDINAL JOINT SEALANT	FOOT	36,998	36,998		
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	24	24		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	766	766		
40602985	HOT-MIX ASPHALT BINDER COURSE, IL-19.5, N70	TON	4,878	4,878		

\* SPECIALTY ITEM

MODEL: Default  
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PROFESSIONAL ENGINEER  
Illinois Professional Design Firm  
12/22/2021  
28-108936

USER NAME = rja  
DESIGNED -  
DRAWN - NDP  
PLOT SCALE = 0.0833' / in.  
PLOT DATE = 12/22/2021

REVISED -  
REVISED -  
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DATE = 12/10/2021  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES - IL 137 (BUCKLEY RD)  
W FRONTENAC ST TO IL 137 (BOBBY THOMPSON EXPWY)**

SCALE: SHEET 1 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2018-136-RS-SW	LAKE	66	3
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H69	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	CONSTRUCTION CODE		
				80% FED 20% STATE ROADWAY	100% STATE ROADWAY	80% FED 20% STATE TRAFFIC SIGNAL
				0005	0005	0021
				URBAN	URBAN	URBAN
40603200	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, 1L-4.75, N50	TON	1,667	1,667		
40604062	HOT-MIX ASPHALT SURFACE COURSE, 1L-9.5, MIX "D", N70	TON	7,634	7,634		
42001300	PROTECTIVE COAT	SQ YD	2,186	2,186		
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	6,482	6,482		
42400800	DETECTABLE WARNINGS	SQ FT	434	434		
44000100	PAVEMENT REMOVAL	SQ YD	214	214		
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2-1/4"	SQ YD	39,042	39,042		
44000164	HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4"	SQ YD	42,995	42,995		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	961	961		
44000600	SIDEWALK REMOVAL	SQ FT	6,300	6,300		
44003100	MEDIAN REMOVAL	SQ FT	5,299	5,299		
44201785	CLASS D PATCHES, TYPE I, 12 INCH	SQ YD	45	45		
44201789	CLASS D PATCHES, TYPE II, 12 INCH	SQ YD	1,113	1,113		
44201794	CLASS D PATCHES, TYPE III, 12 INCH	SQ YD	326	326		

\* SPECIALTY ITEM

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STATE OF ILLINOIS  
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SUMMARY OF QUANTITIES - IL 137 (BUCKLEY RD)  
W FRONTENAC ST TO IL 137 (BOBBY THOMPSON EXPWY)

SCALE: SHEET 2 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2018-136-RS-SW	LAKE	66	4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H69	

REV-SEP

CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	CONSTRUCTION CODE		
				80% FED 20% STATE ROADWAY	100% STATE ROADWAY	80% FED 20% STATE TRAFFIC SIGNAL
				0005 URBAN	0005 URBAN	0021 URBAN
44201796	CLASS D PATCHES, TYPE IV, 12 INCH	SQ YD	210	210		
50900805	PEDESTRIAN RAILING	FOOT	55	55		
56109210	WATER VALVES TO BE ADJUSTED	EACH	3	3		
60404950	FRAMES AND GRATES, TYPE 24	EACH	5	5		
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	10	10		
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	414	414		
60608300	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.12	FOOT	586	586		
60626300	STABILIZED MEDIAN SURFACE	SQ YD	664	664		
64300260	IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1	1		
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	279	279		
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	3	3		
* 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	12	12		

\* SPECIALTY ITEM

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES - IL 137 (BUCKLEY RD)  
W FRONTENAC ST TO IL 137 (BOBBY THOMPSON EXPWY)**

SCALE: SHEET 3 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2018-136-RS-SW	LAKE	66	5
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H69	

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	CONSTRUCTION CODE		
				80% FED 20% STATE ROADWAY	100% STATE ROADWAY	80% FED 20% STATE TRAFFIC SIGNAL
				0005 URBAN	0005 URBAN	0021 URBAN
67100100	MOBILIZATION	L SUM	1	1		
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1		
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1		
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1		
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1		
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1		
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	15	15		
70300100	SHORT TERM PAVEMENT MARKING	FOOT	9,989	9,989		
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	372	372		
70300211	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - PAINT	SQ FT	2,255	2,255		
70300221	TEMPORARY PAVEMENT MARKING - LINE 4" - PAINT	FOOT	24,200	24,200		
70300241	TEMPORARY PAVEMENT MARKING - LINE 6" - PAINT	FOOT	8,536	8,536		
70300251	TEMPORARY PAVEMENT MARKING - LINE 8" - PAINT	FOOT	1,896	1,896		
70300261	TEMPORARY PAVEMENT MARKING - LINE 12" - PAINT	FOOT	456	456		

\* SPECIALTY ITEM

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES - IL 137 (BUCKLEY RD)  
W FRONTENAC ST TO IL 137 (BOBBY THOMPSON EXPWY)

SCALE: SHEET 4 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2018-136-RS-SW	LAKE	66	6
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H69	

REV-SEP



CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	CONSTRUCTION CODE		
				80% FED 20% STATE ROADWAY	100% STATE ROADWAY	80% FED 20% STATE TRAFFIC SIGNAL
				0005	0005	0021
				URBAN	URBAN	URBAN
70300281	TEMPORARY PAVEMENT MARKING - LINE 24" - PAINT	FOOT	1,473	1,473		
7036120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE III TAPE	FOOT	3,339	3,339		
73700200	REMOVE CONCRETE FOUNDATION - GROUND MOUNT	EACH	1	1		
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	2,693	2,693		
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	24,200	24,200		
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	8,536	8,536		
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	1,896	1,896		
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	456	456		
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	1,473	1,473		
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	836	836		
* 78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	836	836		
* 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	125			125
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	4			4
* 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,500			1,500

\* SPECIALTY ITEM

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES - IL 137 (BUCKLEY RD)  
W FRONTENAC ST TO IL 137 (BOBBY THOMPSON EXPWY)

SCALE: SHEET 5 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2018-136-RS-SW	LAKE	66	7
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H69	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	CONSTRUCTION CODE		
				80% FED 20% STATE ROADWAY	100% STATE ROADWAY	80% FED 20% STATE TRAFFIC SIGNAL
				0005	0005	0021
				URBAN	URBAN	URBAN
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,050			1,050
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	120			120
* 87900200	DRILL EXISTING HANDHOLE	EACH	3			3
* 88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4			4
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	4,643			4,643
* 89502200	MODIFY EXISTING CONTROLLER	EACH	1			1
* 89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1			1
* 89502376	REBUILD EXISTING HANDHOLE	EACH	4			4
X0320050	CONSTRUCTION LAYOUT (SPECIAL)	L SUM	1	1		
X0326519	STEEL RAILING REMOVAL	FOOT	55	55		
X0327890	DRIVEWAY REMOVAL AND REPLACEMENT	SQ YD	85	85		
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	3,455	3,455		
* X1400378	PEDESTRIAN SIGNAL POST, 5 FT.	EACH	3			3

\* SPECIALTY ITEM

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES - IL 137 (BUCKLEY RD)  
 W FRONTENAC ST TO IL 137 (BOBBY THOMPSON EXPWY)**

SCALE: SHEET 6 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2018-136-RS-SW	LAKE	66	8
CONTRACT NO. 62H69				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	CONSTRUCTION CODE		
				80% FED 20% STATE ROADWAY	100% STATE ROADWAY	80% FED 20% STATE TRAFFIC SIGNAL
				0005	0005	0021
				URBAN	URBAN	URBAN
X1700091	MEDIAN SURFACE REMOVAL AND REPLACEMENT	SQ FT	144,615	144,615		
X4060995	TEMPORARY RAMP, SPECIAL	SQ YD	59	59		
X4400501	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT LESS THAN OR EQUAL TO 10 FEET	FOOT	800	800		
X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	2,000		2,000	
X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	18	18		
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	12	12		
78300201	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	19,254	19,254		
X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	16			16
X8780012	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	12			12
XZ127900	RETAINING WALL REMOVAL	FOOT	25	25		
XZ127902	RETAINING WALL, SPECIAL	SQ FT	36	36		
Z0004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	2,670	2,670		
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1		
Z0018400	DRAINAGE STRUCTURES TO BE ADJUSTED	EACH	111	111		

\* SPECIALTY ITEM

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

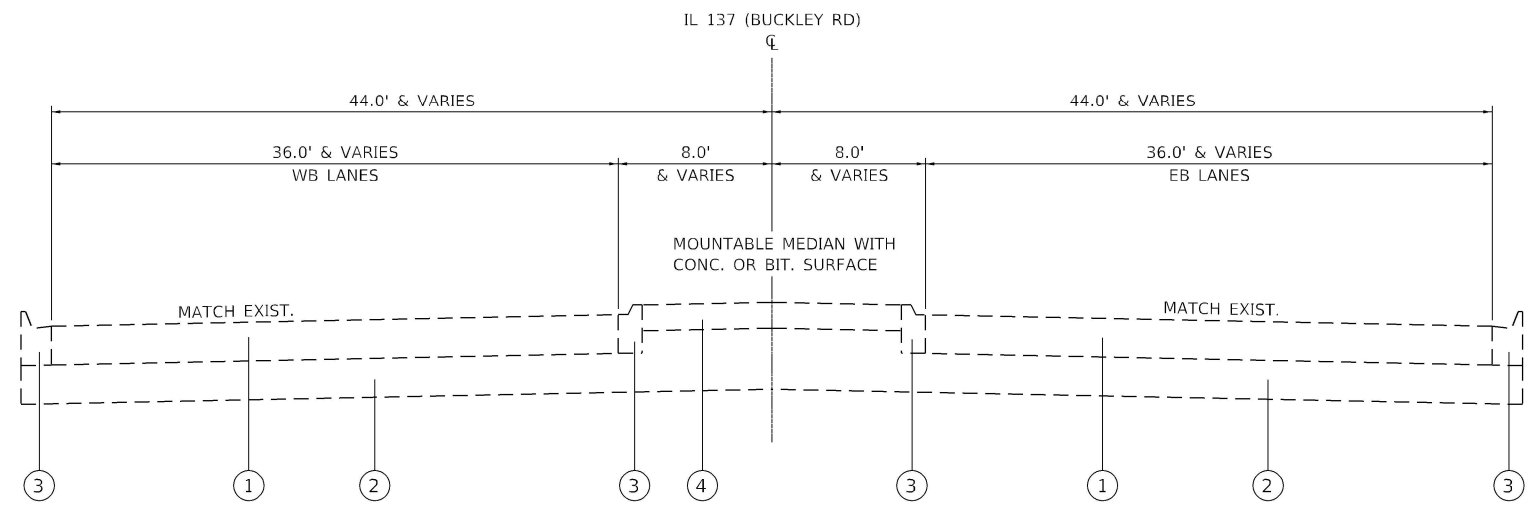
**SUMMARY OF QUANTITIES - IL 137 (BUCKLEY RD)  
W FRONTENAC ST TO IL 137 (BOBBY THOMPSON EXPWY)**

SCALE: SHEET 7 OF 8 SHEETS STA. TO STA.

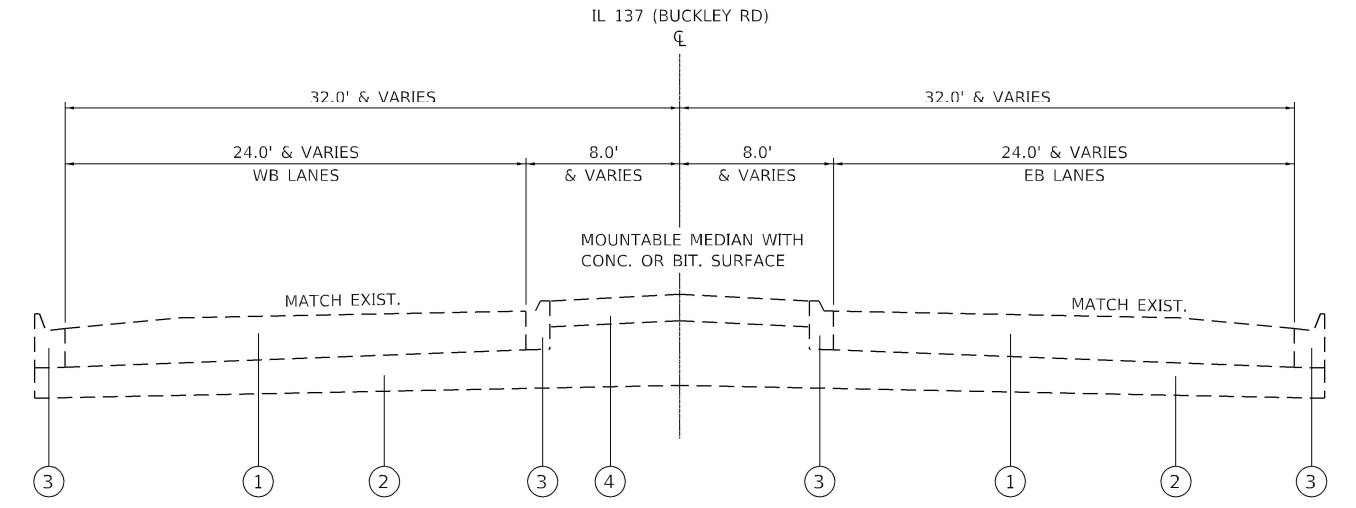
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2018-136-R5-SW	LAKE	66	9
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H69	



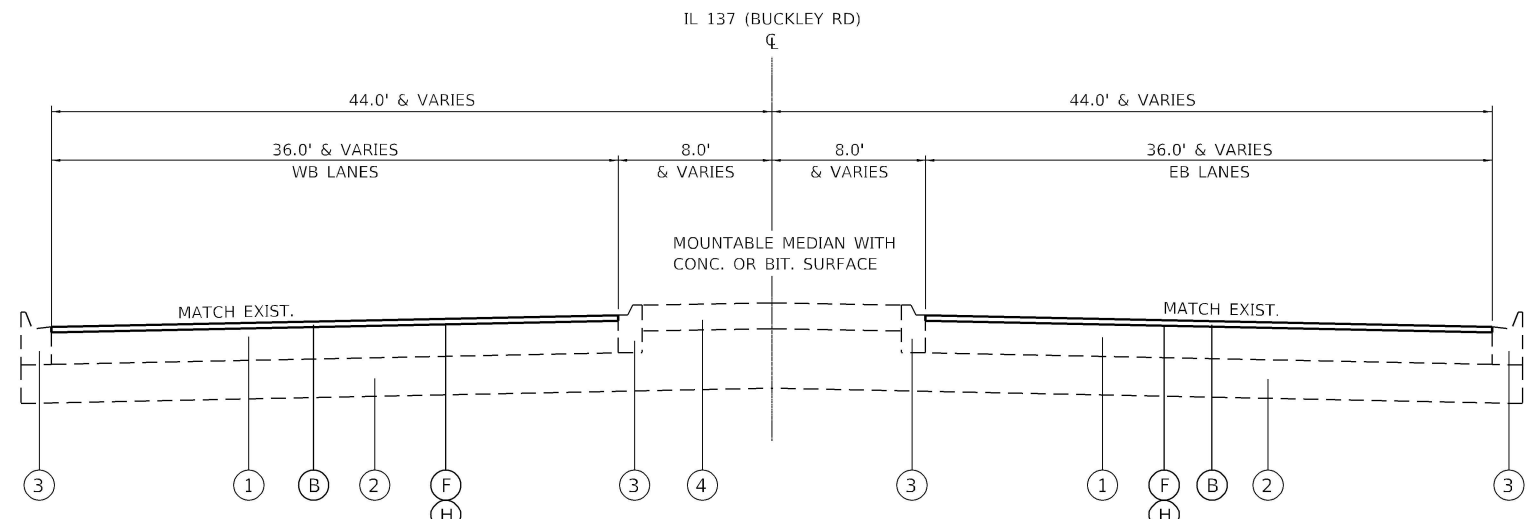




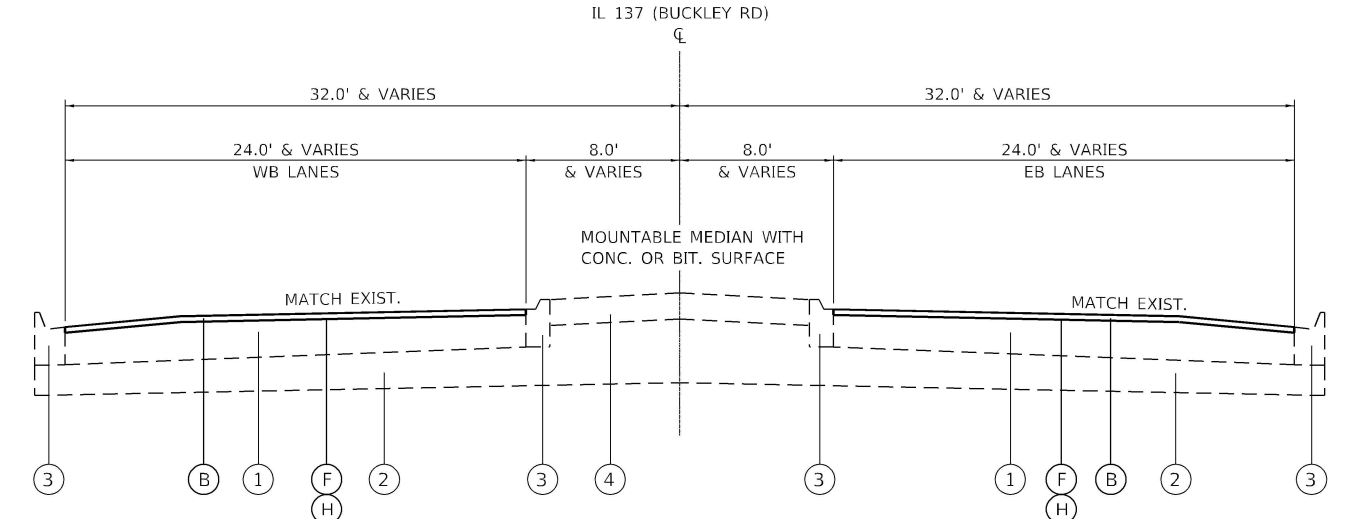
**EXISTING TYPICAL SECTION NO. 1**  
 STA 1+59.2 TO STA 10+40.5  
 STA 41+34.5 TO STA 99+61.1  
 WITH OMISSIONS AS NOTED



**EXISTING TYPICAL SECTION NO. 2**  
 STA 10+40.5 TO STA 41+34.5  
 WITH OMISSIONS AS NOTED



**PROPOSED TYPICAL SECTION NO. 1**  
 STA 1+59.2 TO STA 10+40.5  
 STA 41+34.5 TO STA 50+55.0  
 WITH OMISSIONS AS NOTED



**PROPOSED TYPICAL SECTION NO. 2**  
 STA 10+40.5 TO STA 41+34.5  
 WITH OMISSIONS AS NOTED

**EXISTING LEGEND**

- ① EXISTING HMA PAVEMENT STRUCTURE, 3 1/2"±
- ② EXISTING PCC BASE COURSE, 11"±
- ③ EXISTING COMB CONCRETE CURB & GUTTER
- ④ EXISTING MEDIAN

**PROPOSED LEGEND**

- (A) HMA SURFACE REMOVAL, 3 3/4"
- (B) HMA SURFACE REMOVAL, 2 1/4"
- (C) PAVEMENT REMOVAL (FULL DEPTH)
- (D) COMB CURB & GUTTER REMOVAL
- (E) MEDIAN REMOVAL
- (F) HMA SURF COURSE, IL-9.5, MIX "D", N70, 1 1/2"
- (G) HMA SURF COURSE, IL-9.5, MIX "D", N70, 1 3/4"
- (H) POLYMERIZED HMA BINDER COURSE, IL-4.75, N50, 3/4"
- (I) HMA BINDER COURSE, IL-9.5, N70, 2"
- (J) COMB CONC CURB & GUTTER, TY M2.12
- (K) PROPOSED TURN LANE IMPROVEMENTS  
 STA 1+59.20 TO STA 50+55.00  
 HMA SURF COURSE, IL-9.5, MIX "D", N70, 1 1/2"  
 POLYMERIZED HMA BINDER COURSE, IL-4.75, N50, 3/4"  
 PCC BASE COURSE, 8 3/4"  
 AGG SUBGRADE IMPROVEMENT, 12"
- (L) STABILIZED MEDIAN SURFACE, 4"

NOTE: THE CONTRACTOR SHALL FIRST PATCH AS DETAILED IN BD-22.

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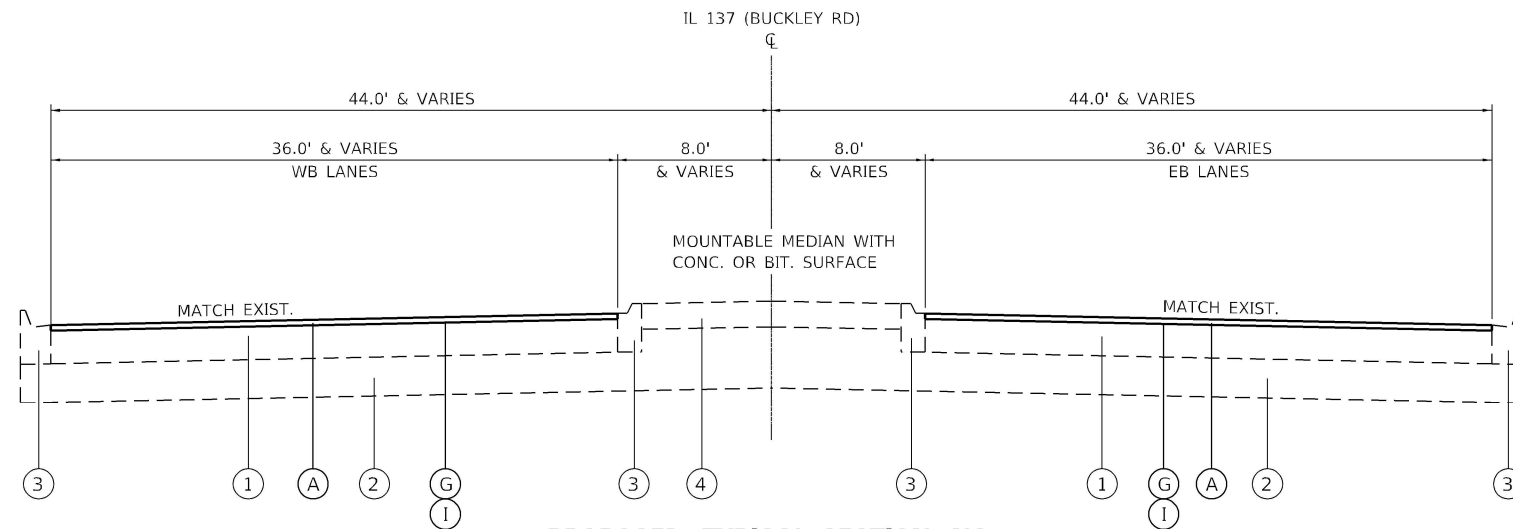
477 South Third Street Suite 200 Galesburg, Illinois 61434 630.323.8187 phone www.kaskaskiaeng.com	USER NAME = msecret	DESIGNED -	REVISED -
Professional Engineering Firm 343 North 5th Galesburg, IL 61434 31-588536	PLOT SCALE = 10.0000' / in.	DRAWN - KKH	REVISED -
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS - IL 137 (BUCKLEY RD)  
 W FRONTENAC ST TO IL 137 (BOBBY THOMPSON EXPWY)**

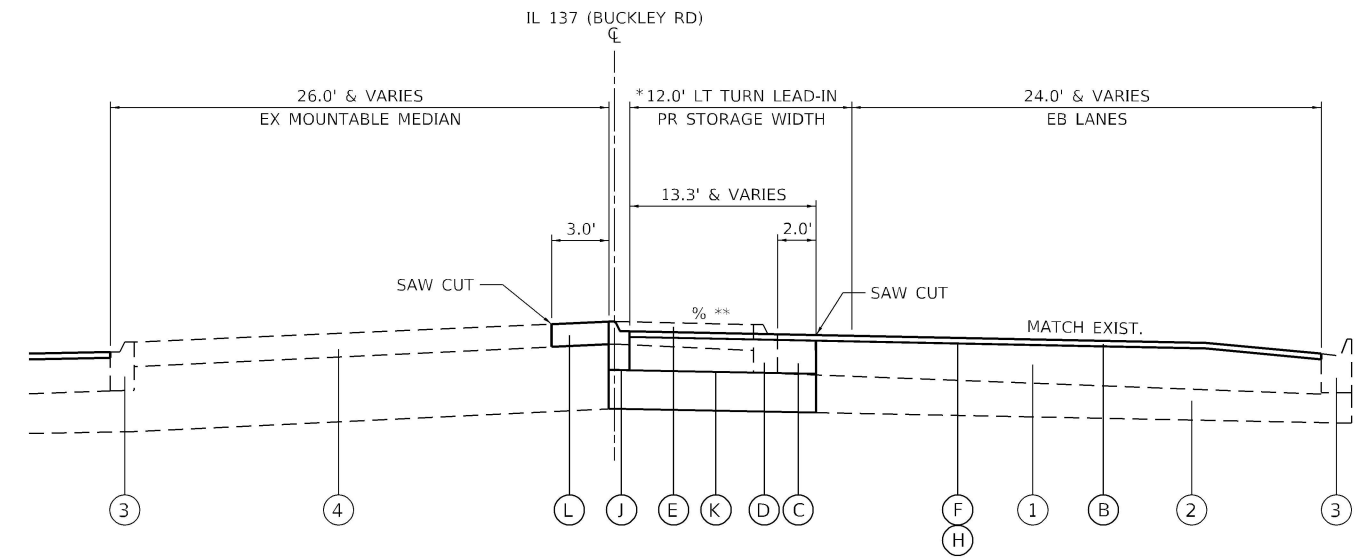
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CONTRACT NO. 62H69				
ILLINOIS FED. AID PROJECT				

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



**PROPOSED TYPICAL SECTION NO. 3**

STA 50+55.0 TO STA 99+61.1  
 WITH OMISSIONS AS NOTED

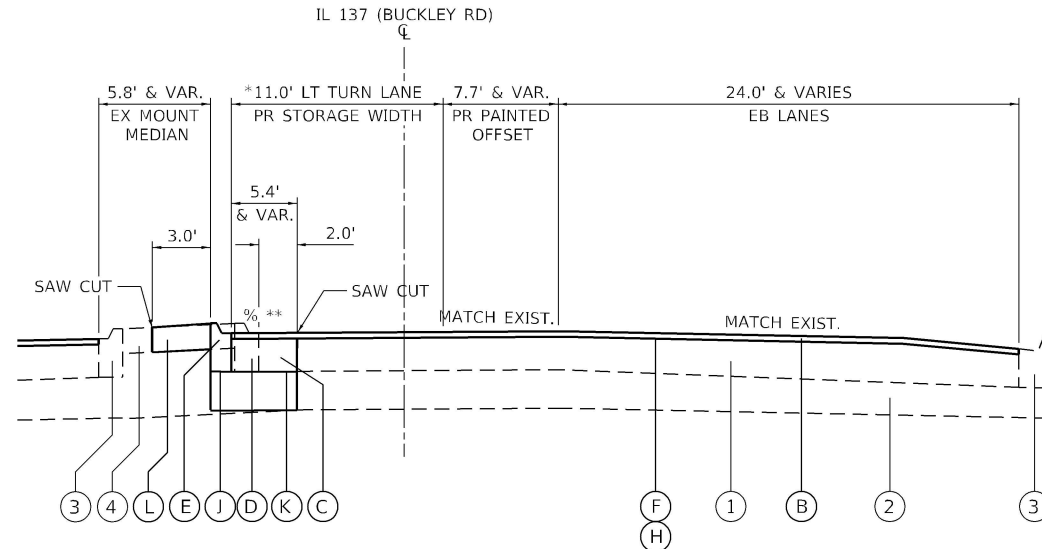


**PROPOSED TYPICAL SECTION NO. 4**

\*\* PROPOSED ROADWAY CROSS SLOPES TO MATCH EXISTING

LEFT TURN LANE LEAD-IN  
 STA 10+59 TO STA 13+54

\* TAPER & STORAGE  
 TAPER: STA 10+59 TO STA 12+39  
 STORAGE: STA 12+39 TO STA 13+54

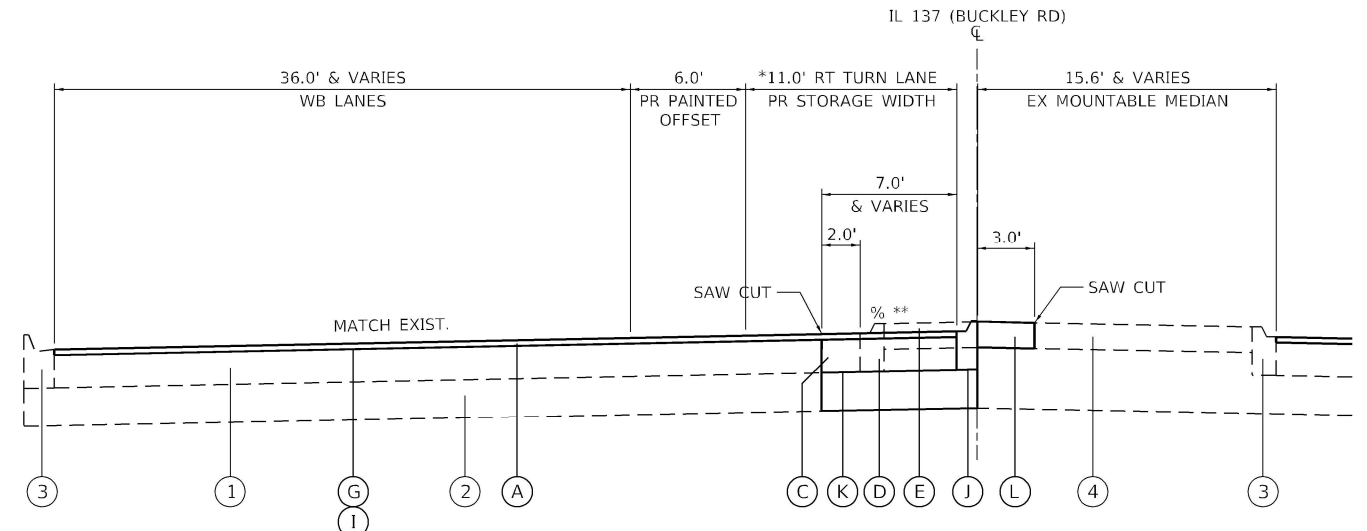


**PROPOSED TYPICAL SECTION NO. 5**

LEFT TURN LANE WITH OFFSET  
 STA 34+58 TO STA 37+38

\*\* PROPOSED ROADWAY CROSS SLOPES TO MATCH EXISTING

\* TAPER & STORAGE  
 TAPER: STA 34+58 TO STA 36+13  
 STORAGE: STA 36+13 TO STA 37+38



**PROPOSED TYPICAL SECTION NO. 6**

\*\* PROPOSED ROADWAY CROSS SLOPES TO MATCH EXISTING

RIGHT TURN LANE WITH OFFSET  
 STA 56+39 TO STA 59+88

\* TAPER & STORAGE  
 STORAGE: STA 56+39 TO STA 58+39  
 TAPER: STA 58+39 TO STA 59+88

**EXISTING LEGEND**

- ① EXISTING HMA PAVEMENT STRUCTURE, 4½"±
- ② EXISTING PCC BASE COURSE, 10"±
- ③ EXISTING COMB CONCRETE CURB & GUTTER
- ④ EXISTING HMA MEDIAN

NOTE: THE CONTRACTOR SHALL FIRST PATCH AS DETAILED IN BD-22.

**PROPOSED LEGEND**

- (A) HMA SURFACE REMOVAL, 3¾"
- (B) HMA SURFACE REMOVAL, 2½"
- (C) PAVEMENT REMOVAL (FULL DEPTH)
- (D) COMB CURB & GUTTER REMOVAL
- (E) MEDIAN REMOVAL
- (F) HMA SURF COURSE, IL-9.5, MIX "D", N70, 1½"
- (G) HMA SURF COURSE, IL-9.5, MIX "D", N70, 1¾"
- (H) POLYMERIZED HMA BINDER COURSE, IL-4.75, N50, ¾"
- (I) HMA BINDER COURSE, IL-9.5, N70, 2"
- (J) COMB CONC CURB & GUTTER, TY M2.12
- (K) PROPOSED TURN LANE IMPROVEMENTS  
 STA 1+59.20 TO STA 50+55.00  
 HMA SURF COURSE, IL-9.5, MIX "D", N70, 1½"  
 POLYMERIZED HMA BINDER COURSE, IL-4.75, N50, ¾"  
 PCC BASE COURSE, 8¾"  
 AGG SUBGRADE IMPROVEMENT, 12"
- STA 55+55.00 TO STA 99+61.10  
 HMA SURF COURSE, IL-9.5, MIX "D", N70, 1¾"  
 HMA BINDER COURSE, IL-4.75, N50, 2"  
 PCC BASE COURSE, 7½"  
 AGG SUBGRADE IMPROVEMENT, 12"
- (L) STABILIZED MEDIAN SURFACE, 4"

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STATE OF ILLINOIS  
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TYPICAL SECTIONS - IL 137 (BUCKLEY RD)  
 W FRONTENAC ST TO IL 137 (BOBBY THOMPSON EXPWY)

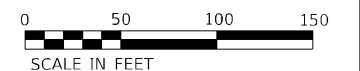
F.A.P. RTE. 352	SECTION 2018-136-R5-SW	COUNTY LAKE	TOTAL SHEETS 66	SHEET NO. 12
CONTRACT NO. 62H69				
ILLINOIS FED. AID PROJECT				

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

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		QUALITY MANAGEMENT PLAN (QMP)
MIXTURE TYPE	AIR VOIDS(%) @ N <sub>DES</sub>	
<b>TEMPORARY RAMP,SPECIAL</b>		
HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70	4% @ 70 GYR.	QC/QA
<b>PAVEMENT RESURFACING &amp; TURN LANE IMPROVEMENTS</b>		
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1½"	4% @ 70 GYR.	QCP
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1¾"	4% @ 70 GYR.	QCP
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, ¾"	3.5% @ 50 GYR.	QCP
HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70, 2"	4% @ 70 GYR.	QCP
<b>MEDIAN SURFACE REMOVAL AND REPLACEMENT</b>		
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 2" MIN	4% @ 50 GYR.	QC/QA
<b>STABILIZED MEDIAN SURFACE</b>		
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 4" (IN 2 LIFTS)	4% @ 50 GYR.	QC/QA
<b>PAVEMENT PATCHING</b>		
CLASS D PATCHES, (HMA BINDER IL-19.0 MM)	4% @ 70 GYR.	QC/QA

QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP); PAY FOR PERFORMANCE (PFP)

- NOTE 1: THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ 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 OTHERWISE MODIFIED BY RECLAIMED MATERIAL SPECIFICATIONS.  
 NOTE 3: THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE HMA BINDER COURSE AND POLYMERIZED HMA BINDER COURSE.  
 NOTE 4: TEMPORARY RAMP (SPECIAL): THE RAMPS SHALL BE CONSTRUCTED AT ALL DRIVEWAY ENTRANCES IMMEDIATELY UPON COMPLETION OF THE MILLING OPERATION AND WHEN THE DROP-OFF GREATER THAN 2.5".



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS - HMA REQUIREMENTS TABLE  
IL 137 (BUCKLEY RD) - W FRONTENAC ST TO  
IL 137 (BOBBY THOMPSON EXPWY)**

SCALE: 1"=50' SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2018-136-R5-SW	LAKE	66	13
CONTRACT NO. 62H69				
ILLINOIS FED. AID PROJECT				



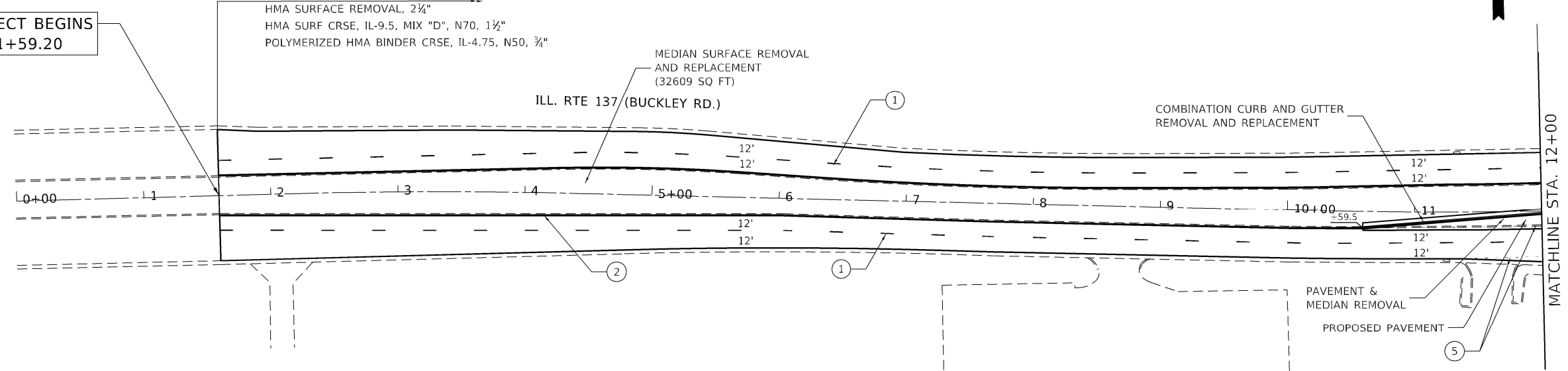
PROJECT BEGINS  
STA 1+59.20

PR ROADWAY RESURFACING:  
HMA SURFACE REMOVAL, 2 1/4"  
HMA SURF CRSE, IL-9.5, MIX "D", N70, 1 1/2"  
POLYMERIZED HMA BINDER CRSE, IL-4.75, N50, 3/4"

MEDIAN SURFACE REMOVAL  
AND REPLACEMENT  
(32609 SQ FT)

ILL. RTE 137 (BUCKLEY RD.)

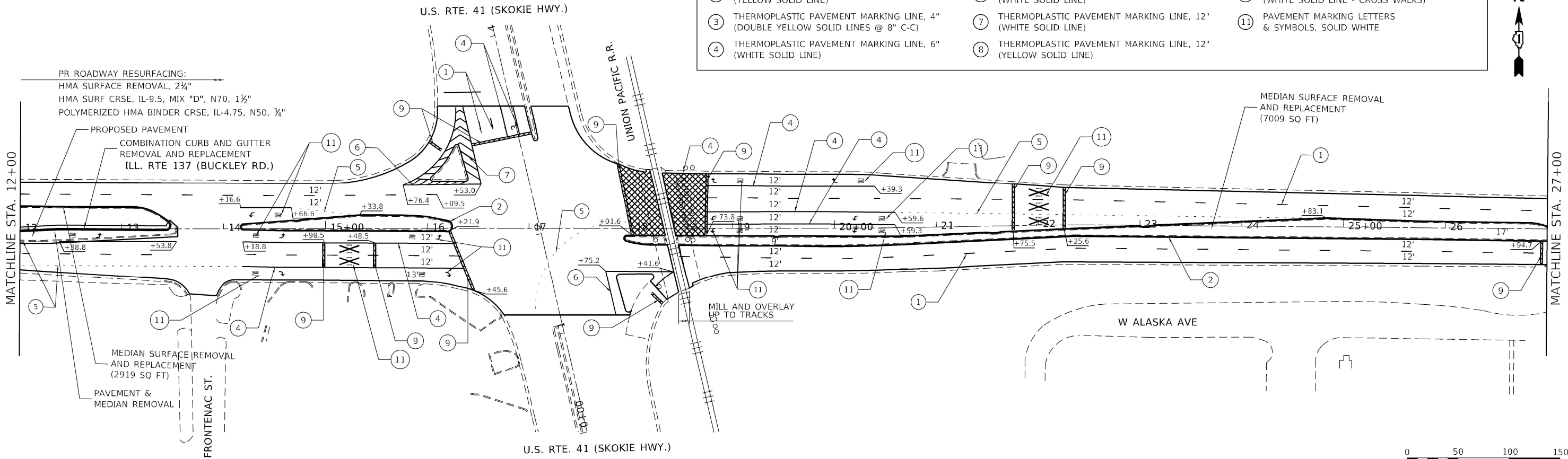
COMBINATION CURB AND GUTTER  
REMOVAL AND REPLACEMENT



**PLAN NOTES**  
ALL PAVEMENT MARKINGS SHALL BE INSTALLED ACCORDING TO DISTRICT ONE DETAIL TC-13 "DISTRICT ONE TYPICAL PAVEMENT MARKINGS."  
RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED ACCORDING TO DISTRICT ONE DETAIL TC-11 "RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT)."

**SIDEWALK LEGEND**  
(A) PROPOSED ADA RAMP IMPROVEMENTS, SEE DETAIL SHEETS  
(B) PROPOSED ADA RAMP IMPROVEMENTS, SEE DETAIL PD-01C  
(C) PROPOSED ADA RAMP IMPROVEMENTS, SEE DETAIL PD-06A

**PAVEMENT MARKING LEGEND**  
(1) THERMOPLASTIC PAVEMENT MARKING LINE, 4" (WHITE SKIP DASH LINE - 30' SKIP, 10' DASH)  
(2) THERMOPLASTIC PAVEMENT MARKING LINE, 4" (YELLOW SOLID LINE)  
(3) THERMOPLASTIC PAVEMENT MARKING LINE, 4" (DOUBLE YELLOW SOLID LINES @ 8" C-C)  
(4) THERMOPLASTIC PAVEMENT MARKING LINE, 6" (WHITE SOLID LINE)  
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(10) THERMOPLASTIC PAVEMENT MARKING LINE, 12" (WHITE SOLID LINE - CROSS WALKS)  
(11) PAVEMENT MARKING LETTERS & SYMBOLS, SOLID WHITE



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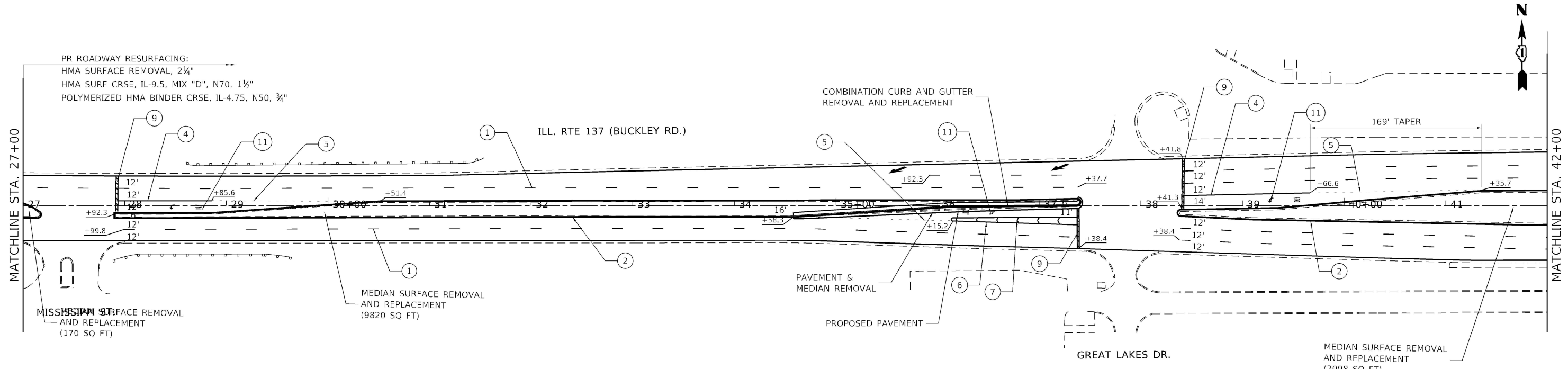
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	DATE - 12/10/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ROADWAY & PAVEMENT MARKING PLAN - IL 137 BUCKLEY RD  
W FRONTENAC ST TO IL 137 (BOBBY THOMPSON EXPWY)**  
SCALE: 1"=50' SHEET 1 OF 4 SHEETS STA. 1+59.20 TO STA. 27+00.00

F.A.P. RTE. 352	SECTION 2018-136-RS-SW	COUNTY LAKE	TOTAL SHEETS 66	SHEET NO. 14
CONTRACT NO. 62H69				
ILLINOIS FED. AID PROJECT				





**PLAN NOTES**

ALL PAVEMENT MARKINGS SHALL BE INSTALLED ACCORDING TO DISTRICT ONE DETAIL TC-13 "DISTRICT ONE TYPICAL PAVEMENT MARKINGS."

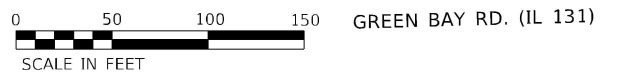
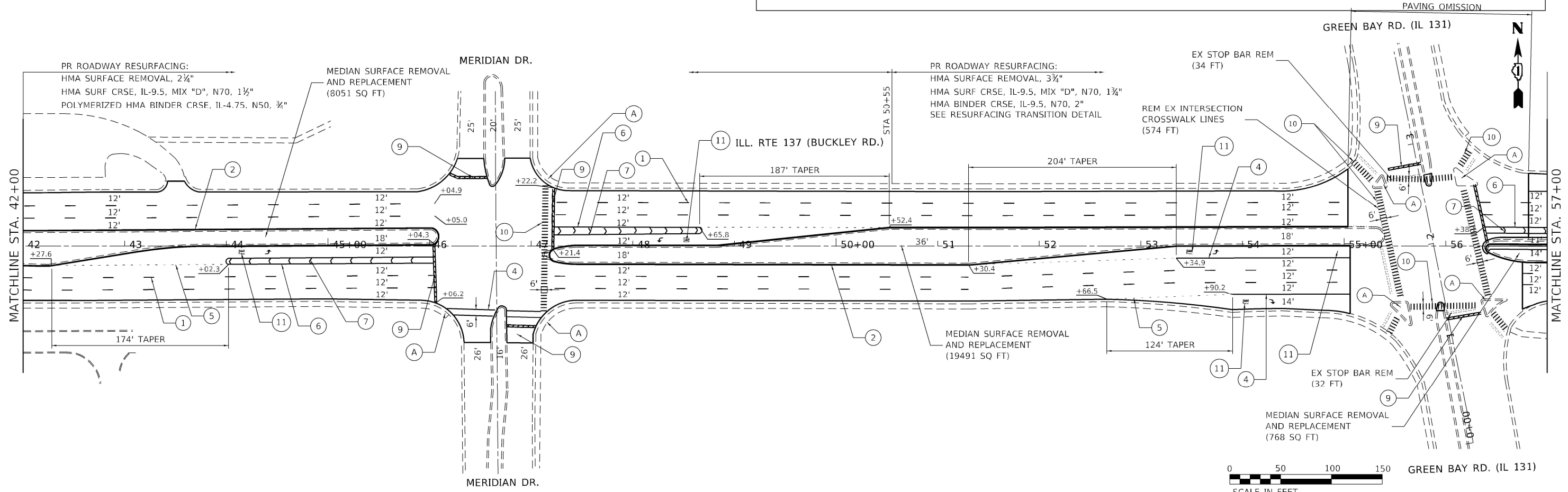
RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED ACCORDING TO DISTRICT ONE DETAIL TC-11 "RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT)."

**SIDEWALK LEGEND**

(A) PROPOSED ADA RAMP IMPROVEMENTS, SEE DETAIL SHEETS  
 (B) PROPOSED ADA RAMP IMPROVEMENTS, SEE DETAIL PD-01C  
 (C) PROPOSED ADA RAMP IMPROVEMENTS, SEE DETAIL PD-06A

**PAVEMENT MARKING LEGEND**

(1) THERMOPLASTIC PAVEMENT MARKING LINE, 4" (WHITE SKIP DASH LINE - 30' SKIP, 10' DASH)  
 (2) THERMOPLASTIC PAVEMENT MARKING LINE, 4" (YELLOW SOLID LINE)  
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 (10) THERMOPLASTIC PAVEMENT MARKING LINE, 12" (WHITE SOLID LINE - CROSS WALKS)  
 (11) PAVEMENT MARKING LETTERS & SYMBOLS, SOLID WHITE



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 04/20/2013  
 31-588536

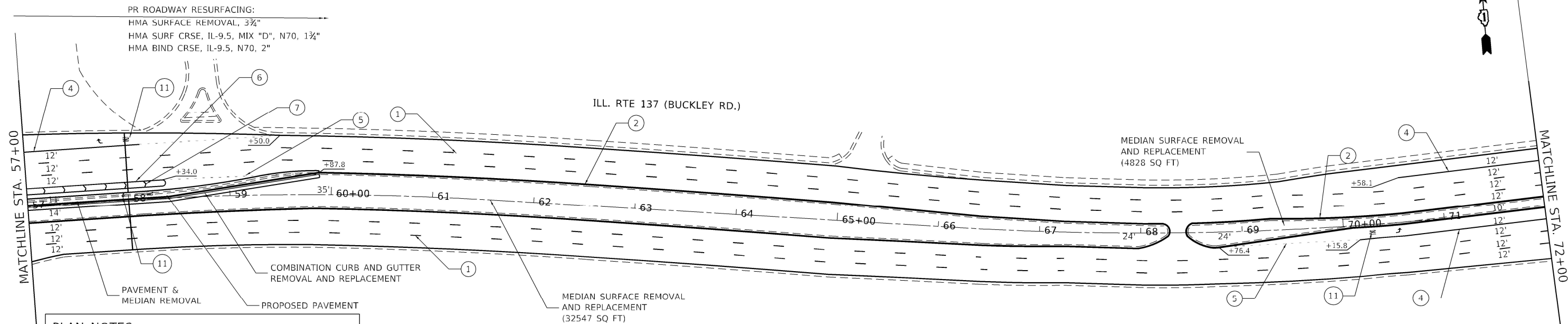
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	DATE - 12/10/2021	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY & PAVEMENT MARKING PLAN - IL 137 BUCKLEY RD  
 W FRONTENAC ST TO IL 137 (BOBBY THOMPSON EXPWY)**

SCALE: 1"=50'    SHEET 2 OF 4 SHEETS    STA. 27+00.00 TO STA. 57+00.00

F.A.P. RTE. 352	SECTION 2018-136-R5-SW	COUNTY LAKE	TOTAL SHEETS 66	SHEET NO. 15
CONTRACT NO. 62H69				ILLINOIS FED. AID PROJECT



**PLAN NOTES**

ALL PAVEMENT MARKINGS SHALL BE INSTALLED ACCORDING TO DISTRICT ONE DETAIL TC-13 "DISTRICT ONE TYPICAL PAVEMENT MARKINGS."

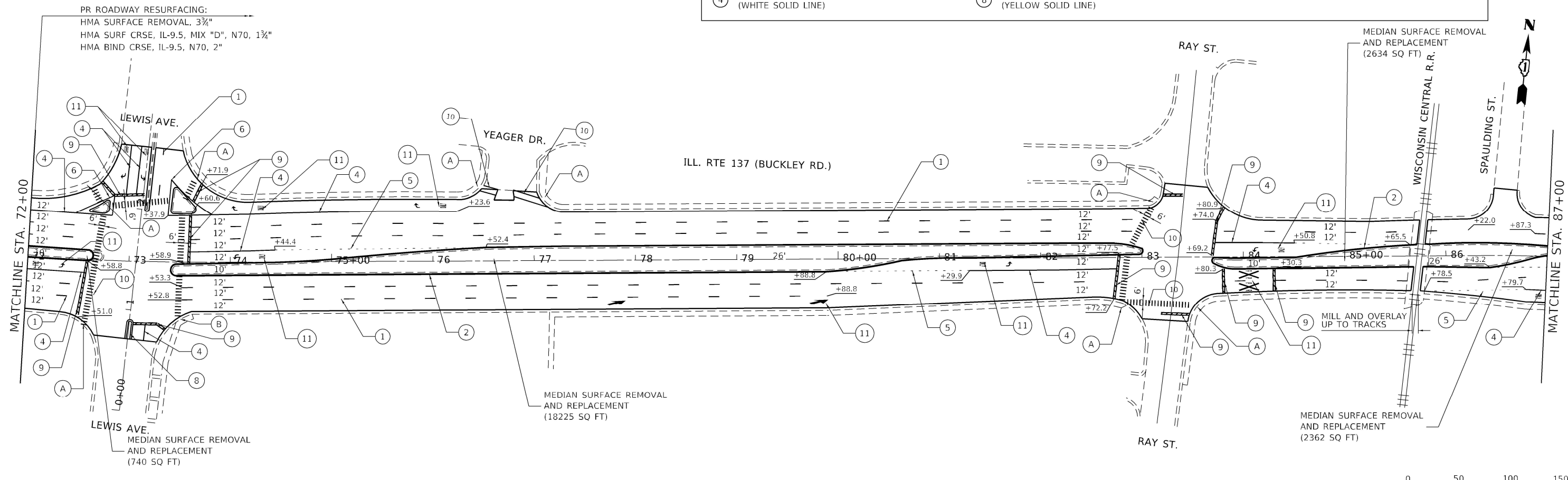
RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED ACCORDING TO DISTRICT ONE DETAIL TC-11 "RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT)."

**SIDEWALK LEGEND**

(A) PROPOSED ADA RAMP IMPROVEMENTS, SEE DETAIL SHEETS  
 (B) PROPOSED ADA RAMP IMPROVEMENTS, SEE DETAIL PD-01C  
 (C) PROPOSED ADA RAMP IMPROVEMENTS, SEE DETAIL PD-06A

**PAVEMENT MARKING LEGEND**

(1) THERMOPLASTIC PAVEMENT MARKING LINE, 4" (WHITE SKIP DASH LINE - 30' SKIP, 10' DASH)  
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 (11) PAVEMENT MARKING LETTERS & SYMBOLS, SOLID WHITE



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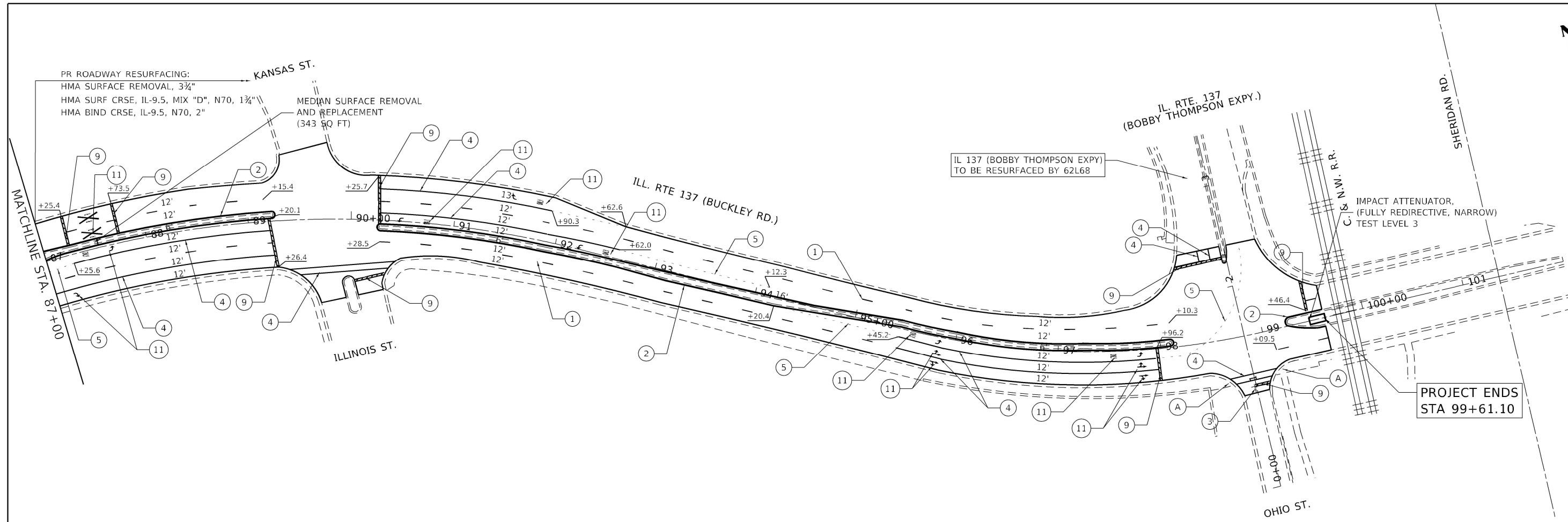
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY & PAVEMENT MARKING PLAN - IL 137 BUCKLEY RD  
 W FRONTENAC ST TO IL 137 (BOBBY THOMPSON EXPWY)**

SCALE: 1"=50'    SHEET 3 OF 4 SHEETS    STA. 57+00.00 TO STA. 87+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2018-136-RS-SW	LAKE	66	16
CONTRACT NO. 62H69				
ILLINOIS FED. AID PROJECT				



**PLAN NOTES**

ALL PAVEMENT MARKINGS SHALL BE INSTALLED ACCORDING TO DISTRICT ONE DETAIL TC-13 "DISTRICT ONE TYPICAL PAVEMENT MARKINGS."

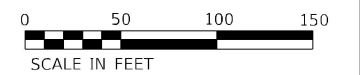
RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED ACCORDING TO DISTRICT ONE DETAIL TC-11 "RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT)."

**SIDEWALK LEGEND**

(A) PROPOSED ADA RAMP IMPROVEMENTS, SEE DETAIL SHEETS  
 (B) PROPOSED ADA RAMP IMPROVEMENTS, SEE DETAIL PD-01C  
 (C) PROPOSED ADA RAMP IMPROVEMENTS, SEE DETAIL PD-06A

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(1) THERMOPLASTIC PAVEMENT MARKING LINE, 4" (WHITE SKIP DASH LINE - 30' SKIP, 10' DASH)	(5) THERMOPLASTIC PAVEMENT MARKING LINE, 6" (WHITE SKIP DASH LINE - 6' SKIP, 2' DASH)	(9) THERMOPLASTIC PAVEMENT MARKING LINE, 24" (WHITE SOLID LINE - STOP BAR)
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(4) THERMOPLASTIC PAVEMENT MARKING LINE, 6" (WHITE SOLID LINE)	(8) THERMOPLASTIC PAVEMENT MARKING LINE, 12" (YELLOW SOLID LINE)	



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	DATE = 12/10/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**







**ROADWAY & PAVEMENT MARKING PLAN - IL 137 BUCKLEY RD  
W FRONTENAC ST TO IL 137 (BOBBY THOMPSON EXPWY)**

SCALE: 1"=50'    SHEET 4 OF 4 SHEETS    STA. 87+00.00 TO STA. 99+61.10

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2018-136-R5-SW	LAKE	66	17
CONTRACT NO. 62H69				
ILLINOIS FED. AID PROJECT				

BENCHMARK:  
 LOCATED IN THE SOUTH LEG MEDIAN OF  
 IL 137 (BUCKLEY ROAD) AND MERIDIAN DRIVE.  
 ELEVATION = 702.12

**LEGEND**

- ( ) EXISTING ELEVATION / LENGTH / SLOPE
-  EXISTING SIDEWALK REMOVAL  
(REPLACED WITH TOPSOIL / SOD)
-  PROPOSED SIDEWALK IMPROVEMENTS
-  DETECTABLE WARNINGS
-  DEPRESSED CURB & GUTTER
-  PAVEMENT PATCHING
-  BENCHMARK

**SOUTHWEST CORNER**

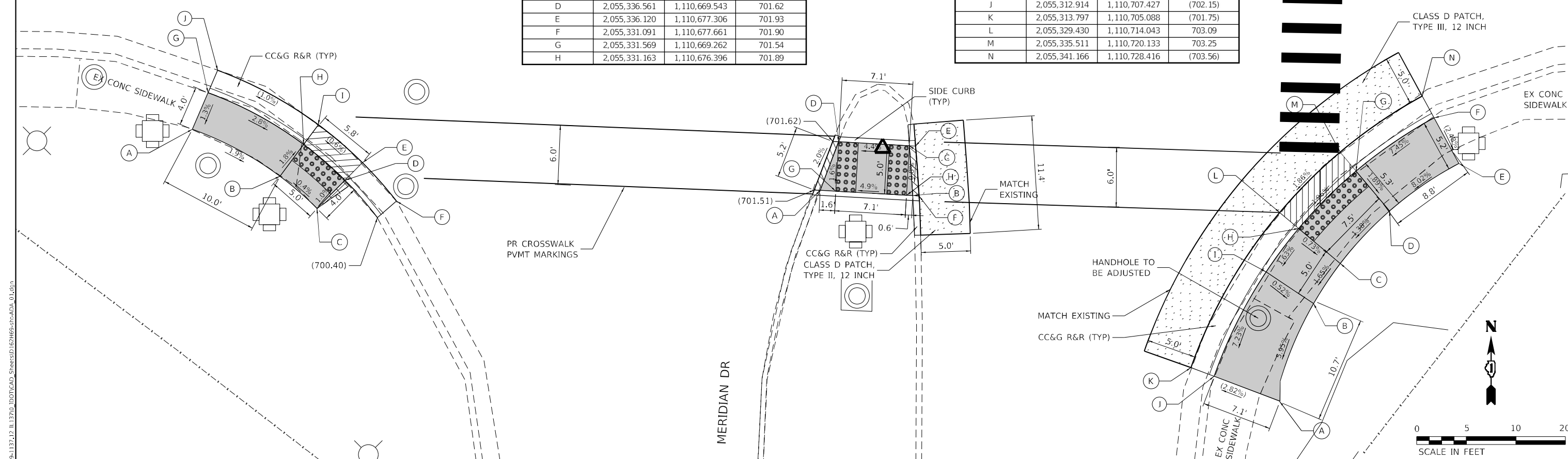
POINT NO.	NORTHING	EASTING	ELEVATION
A	2,055,337.812	1,110,604.355	(700.16)
B	2,055,333.084	1,110,613.190	(699.97)
C	2,055,329.841	1,110,616.924	699.99
D	2,055,332.680	1,110,619.742	699.94
E	2,055,334.456	1,110,621.507	(699.94)
F	2,055,330.574	1,110,624.944	(699.97)
G	2,055,341.495	1,110,605.934	(700.21)
H	2,055,336.289	1,110,615.583	699.90
I	2,055,338.280	1,110,617.059	(699.90)
J	2,055,343.769	1,110,606.908	(699.78)

**MEDIAN - SOUTH LEG**

POINT NO.	NORTHING	EASTING	ELEVATION
A	2,055,331.659	1,110,667.684	701.54
B	2,055,331.128	1,110,677.023	701.90
C	2,055,336.155	1,110,676.680	701.93
D	2,055,336.561	1,110,669.543	701.62
E	2,055,336.120	1,110,677.306	701.93
F	2,055,331.091	1,110,677.661	701.90
G	2,055,331.569	1,110,669.262	701.54
H	2,055,331.163	1,110,676.396	701.89

**SOUTHEAST CORNER**

POINT NO.	NORTHING	EASTING	ELEVATION
A	2,055,310.410	1,110,714.058	(702.35)
B	2,055,320.261	1,110,717.460	702.97
C	2,055,324.284	1,110,720.147	703.05
D	2,055,329.576	1,110,725.120	703.15
E	2,055,334.375	1,110,732.118	(703.85)
F	2,055,338.970	1,110,729.613	(703.96)
G	2,055,333.597	1,110,721.741	703.25
H	2,055,327.818	1,110,715.954	703.09
I	2,055,323.438	1,110,712.672	703.00
J	2,055,312.914	1,110,707.427	(702.15)
K	2,055,313.797	1,110,705.088	(701.75)
L	2,055,329.430	1,110,714.043	703.09
M	2,055,335.511	1,110,720.133	703.25
N	2,055,341.166	1,110,728.416	(703.56)



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 31-308536

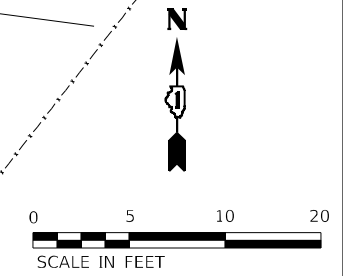
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ADA RAMP IMPROVEMENT PLAN  
 IL 137 (BUCKLEY RD) & MERIDIAN DR**

SCALE: 1"=5'  
 SHEET 1 OF 10 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2018-136-RS-SW	LAKE	66	18
CONTRACT NO. 62H69				
ILLINOIS FED. AID PROJECT				

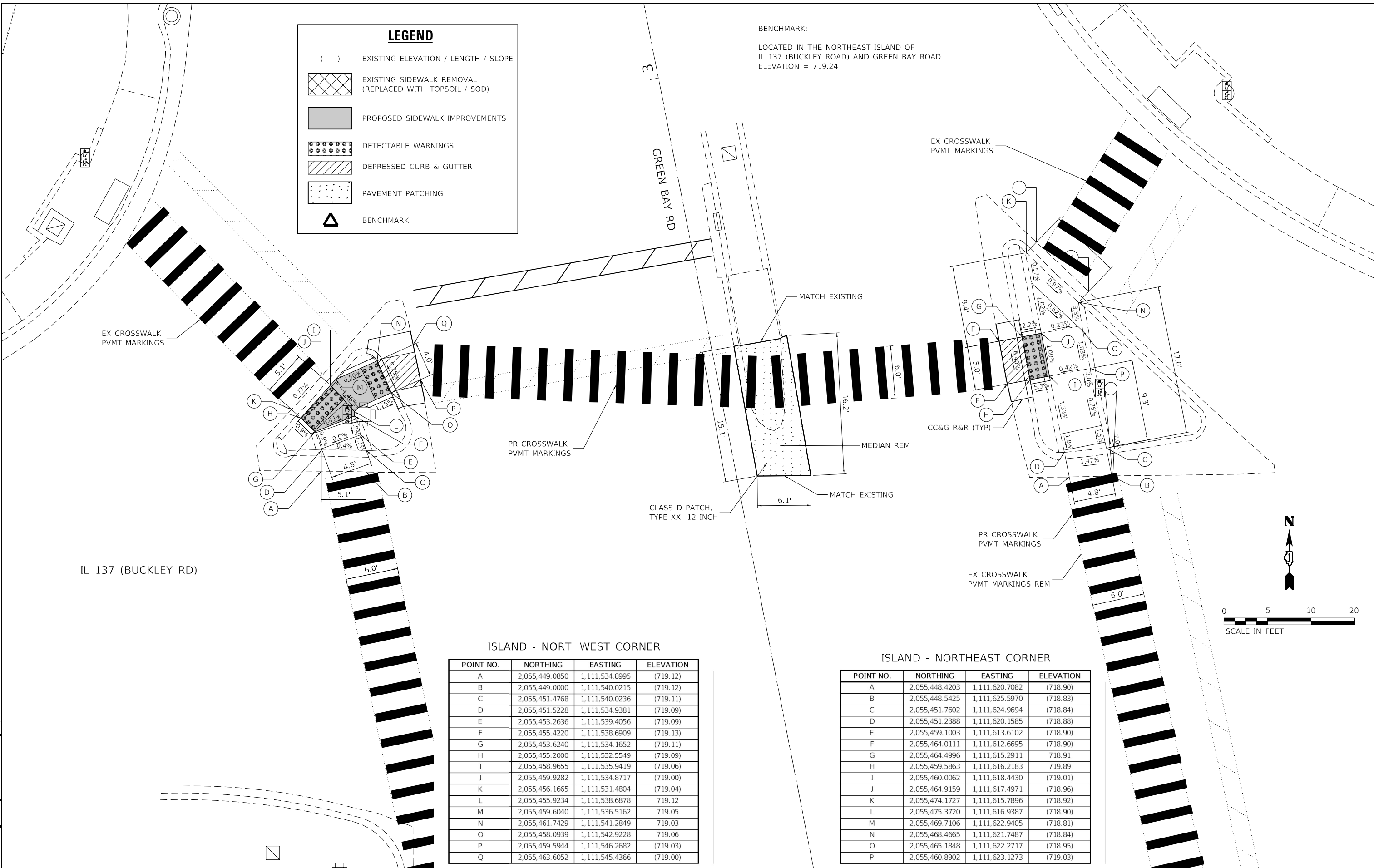






LEGEND	
( )	EXISTING ELEVATION / LENGTH / SLOPE
	EXISTING SIDEWALK REMOVAL (REPLACED WITH TOPSOIL / SOD)
	PROPOSED SIDEWALK IMPROVEMENTS
	DETECTABLE WARNINGS
	DEPRESSED CURB & GUTTER
	PAVEMENT PATCHING
	BENCHMARK

BENCHMARK:  
 LOCATED IN THE NORTHEAST ISLAND OF  
 IL 137 (BUCKLEY ROAD) AND GREEN BAY ROAD.  
 ELEVATION = 719.24

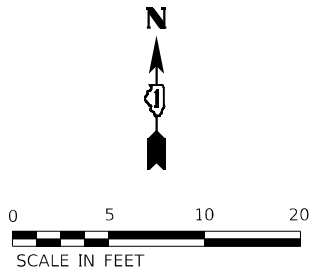


ISLAND - NORTHWEST CORNER

POINT NO.	NORTHING	EASTING	ELEVATION
A	2,055,449.0850	1,111,534.8995	(719.12)
B	2,055,449.0000	1,111,540.0215	(719.12)
C	2,055,451.4768	1,111,540.0236	(719.11)
D	2,055,451.5228	1,111,534.9381	(719.09)
E	2,055,453.2636	1,111,539.4056	(719.09)
F	2,055,455.4220	1,111,538.6909	(719.13)
G	2,055,453.6240	1,111,534.1652	(719.11)
H	2,055,455.2000	1,111,532.5549	(719.09)
I	2,055,458.9655	1,111,535.9419	(719.06)
J	2,055,459.9282	1,111,534.8717	(719.00)
K	2,055,456.1665	1,111,531.4804	(719.04)
L	2,055,455.9234	1,111,538.6878	719.12
M	2,055,459.6040	1,111,536.5162	719.05
N	2,055,461.7429	1,111,541.2849	719.03
O	2,055,458.0939	1,111,542.9228	719.06
P	2,055,459.5944	1,111,546.2682	(719.03)
Q	2,055,463.6052	1,111,545.4366	(719.00)

ISLAND - NORTHEAST CORNER

POINT NO.	NORTHING	EASTING	ELEVATION
A	2,055,448.4203	1,111,620.7082	(718.90)
B	2,055,448.5425	1,111,625.5970	(718.83)
C	2,055,451.7602	1,111,624.9694	(718.84)
D	2,055,451.2388	1,111,620.1585	(718.88)
E	2,055,459.1003	1,111,613.6102	(718.90)
F	2,055,464.0111	1,111,612.6695	(718.90)
G	2,055,464.4996	1,111,615.2911	718.91
H	2,055,459.5863	1,111,616.2183	719.89
I	2,055,460.0062	1,111,618.4430	(719.01)
J	2,055,464.9159	1,111,617.4971	(718.96)
K	2,055,474.1727	1,111,615.7896	(718.92)
L	2,055,475.3720	1,111,616.9387	(718.90)
M	2,055,469.7106	1,111,622.9405	(718.81)
N	2,055,468.4665	1,111,621.7487	(718.84)
O	2,055,465.1848	1,111,622.2717	(718.95)
P	2,055,460.8902	1,111,623.1273	(719.03)



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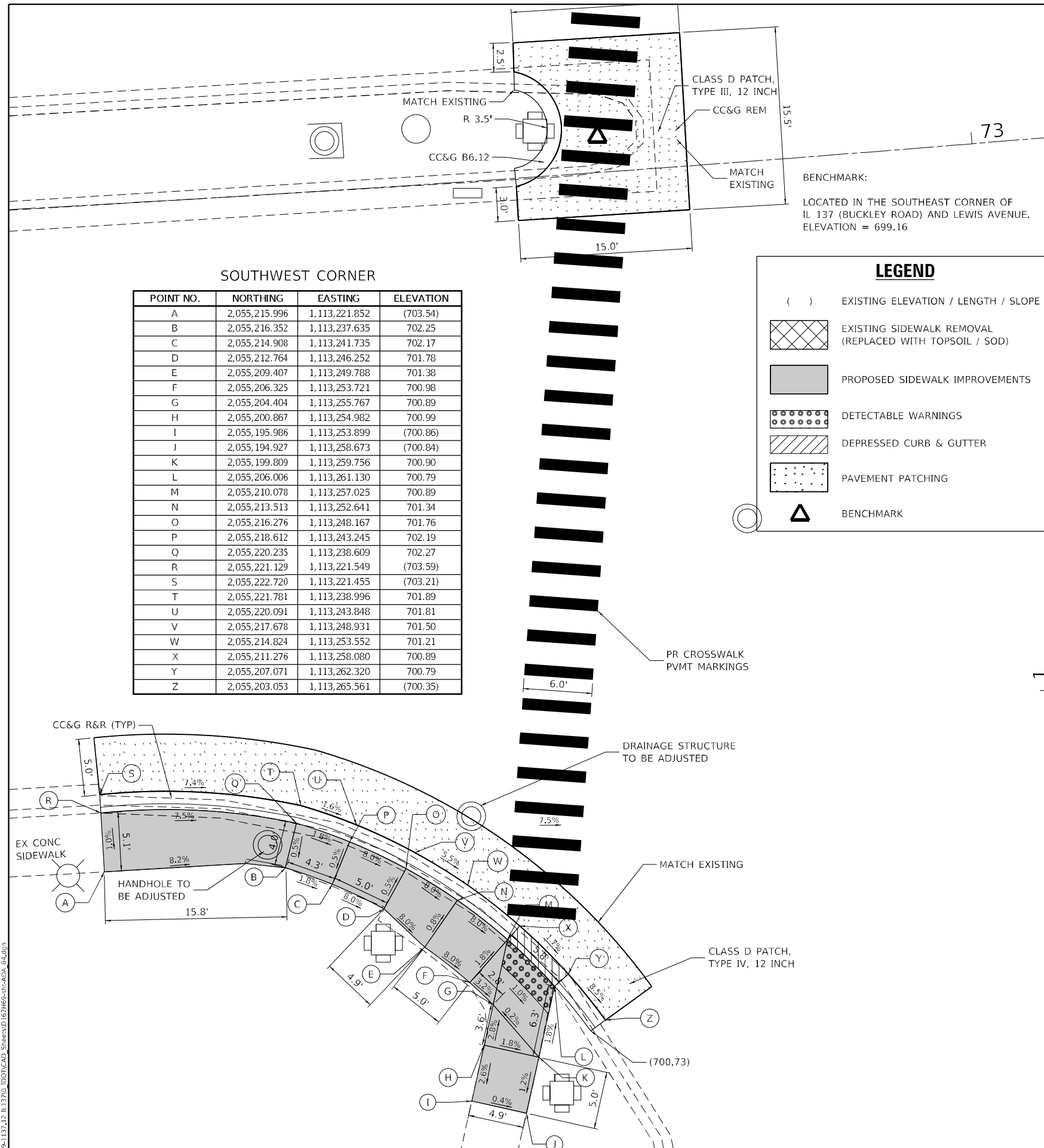
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

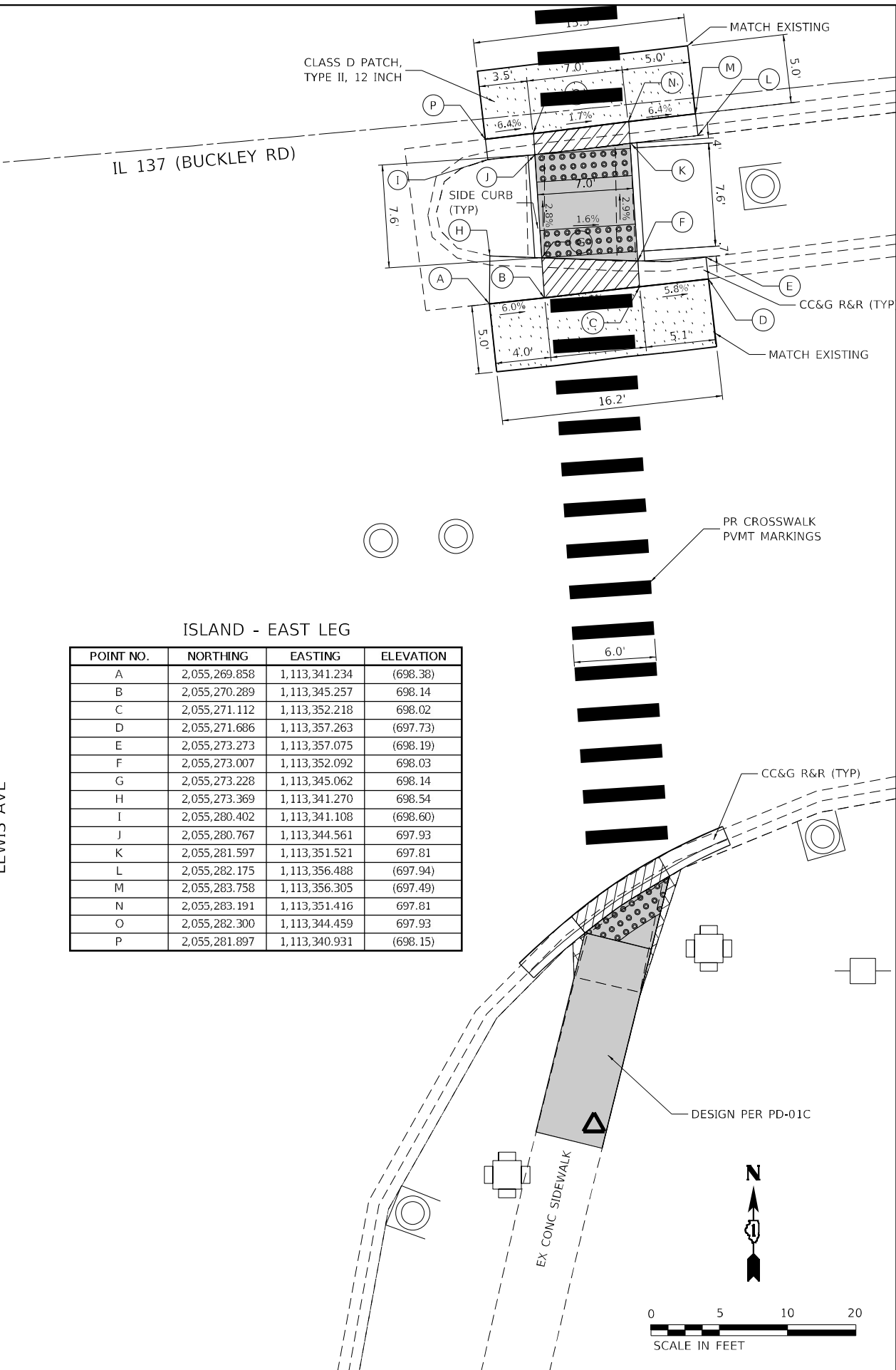
**ADA RAMP IMPROVEMENT PLAN  
 IL 137 (BUCKLEY RD) & GREEN BAY RD**  
 SCALE: 1"=5'  
 SHEET 3 OF 10 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2018-136-RS-SW	LAKE	66	20
CONTRACT NO. 62H69				
ILLINOIS FED. AID PROJECT				





POINT NO.	NORTHING	EASTING	ELEVATION
A	2,055,215.996	1,113,221.852	(703.54)
B	2,055,216.352	1,113,237.635	702.25
C	2,055,214.908	1,113,241.735	702.17
D	2,055,212.764	1,113,246.252	701.78
E	2,055,209.407	1,113,249.788	701.38
F	2,055,206.325	1,113,253.721	700.98
G	2,055,204.404	1,113,255.767	700.89
H	2,055,200.867	1,113,254.982	700.99
I	2,055,195.986	1,113,253.899	(700.86)
J	2,055,194.927	1,113,258.673	(700.84)
K	2,055,199.809	1,113,259.756	700.90
L	2,055,206.006	1,113,261.130	700.79
M	2,055,210.078	1,113,257.025	700.89
N	2,055,213.513	1,113,252.641	701.34
O	2,055,216.276	1,113,248.167	701.76
P	2,055,218.612	1,113,243.245	702.19
Q	2,055,220.235	1,113,238.609	702.27
R	2,055,221.129	1,113,221.549	(703.59)
S	2,055,222.720	1,113,221.455	(703.21)
T	2,055,221.781	1,113,238.996	701.89
U	2,055,220.091	1,113,243.848	701.81
V	2,055,217.678	1,113,248.931	701.50
W	2,055,214.824	1,113,253.552	701.21
X	2,055,211.276	1,113,258.080	700.89
Y	2,055,207.071	1,113,262.320	700.79
Z	2,055,203.053	1,113,265.561	(700.35)



**ISLAND - EAST LEG**

POINT NO.	NORTHING	EASTING	ELEVATION
A	2,055,269.858	1,113,341.234	(698.38)
B	2,055,270.289	1,113,345.257	698.14
C	2,055,271.112	1,113,352.218	698.02
D	2,055,271.686	1,113,357.263	(697.73)
E	2,055,273.273	1,113,357.075	(698.19)
F	2,055,273.007	1,113,352.092	698.03
G	2,055,273.228	1,113,345.062	698.14
H	2,055,273.369	1,113,341.270	698.54
I	2,055,280.402	1,113,341.108	(698.60)
J	2,055,280.767	1,113,344.561	697.93
K	2,055,281.597	1,113,351.521	697.81
L	2,055,282.175	1,113,356.488	(697.94)
M	2,055,283.758	1,113,356.305	(697.49)
N	2,055,283.191	1,113,351.416	697.81
O	2,055,282.300	1,113,344.459	697.93
P	2,055,281.897	1,113,340.931	(698.15)

MODEL Path: \\... 11370\_IDOTCAD\_Sheets\126166-11370-ADA.dwg

**Kaskaskia**  
Engineering Group, LLC  
47 South Third Street  
Suite 200  
Geneva, Illinois 60134  
630.333.8107 phone  
www.kaskaskiaeng.com  
Professional Engineering Group

USER NAME	mscrest	DESIGNED	-	REVISED	-
PLOT SCALE	1/16,000" = 1' / in.	DRAWN	- KKH	REVISED	-
PLOT DATE	1/21/2022	CHECKED	- BCD	REVISED	-
		DATE	- 12/10/2021	REVISED	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**



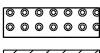
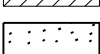


**ADA RAMP IMPROVEMENT PLAN  
IL 137 (BUCKLEY RD) & LEWIS AVE**

SCALE: 1"=5'      SHEET 5 OF 10 SHEETS      STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2018-136-RS-SW	LAKE	66	22
CONTRACT NO. 62H69				
ILLINOIS FED. AID PROJECT				

BENCHMARK:  
SOUTH BOLT ON FIRE HYDRANT LOCATED  
IN THE NORTHWEST ISLAND OF  
IL 137 (BUCKLEY ROAD) AND LEWIS AVENUE.  
ELEVATION = 700.20

**LEGEND**

- ( ) EXISTING ELEVATION / LENGTH / SLOPE
-  EXISTING SIDEWALK REMOVAL (REPLACED WITH TOPSOIL / SOD)
-  PROPOSED SIDEWALK IMPROVEMENTS
-  DETECTABLE WARNINGS
-  DEPRESSED CURB & GUTTER
-  PAVEMENT PATCHING
-  BENCHMARK

**NORTHWEST CORNER**

POINT NO.	NORTHING	EASTING	ELEVATION
A	2,055,344.326	1,113,224.298	(700.77)
B	2,055,345.864	1,113,229.055	700.38
C	2,055,347.391	1,113,233.816	700.29
D	2,055,353.289	1,113,247.555	699.07
E	2,055,356.430	1,113,251.435	699.00
F	2,055,359.866	1,113,254.691	698.89
G	2,055,364.415	1,113,256.766	(698.77)
H	2,055,361.327	1,113,261.627	(698.40)
I	2,055,353.001	1,113,254.664	698.93
J	2,055,349.277	1,113,250.196	699.00
K	2,055,342.159	1,113,235.524	700.34
L	2,055,340.676	1,113,230.748	700.43
M	2,055,339.289	1,113,225.941	(700.68)
N	2,055,338.328	1,113,231.514	(700.05)
O	2,055,336.947	1,113,226.706	(700.30)
P	2,055,339.751	1,113,236.309	699.96
Q	2,055,347.335	1,113,251.715	699.00
R	2,055,351.129	1,113,256.343	698.93
S	2,055,360.002	1,113,263.712	(698.02)

**ISLAND - NORTHWEST CORNER**

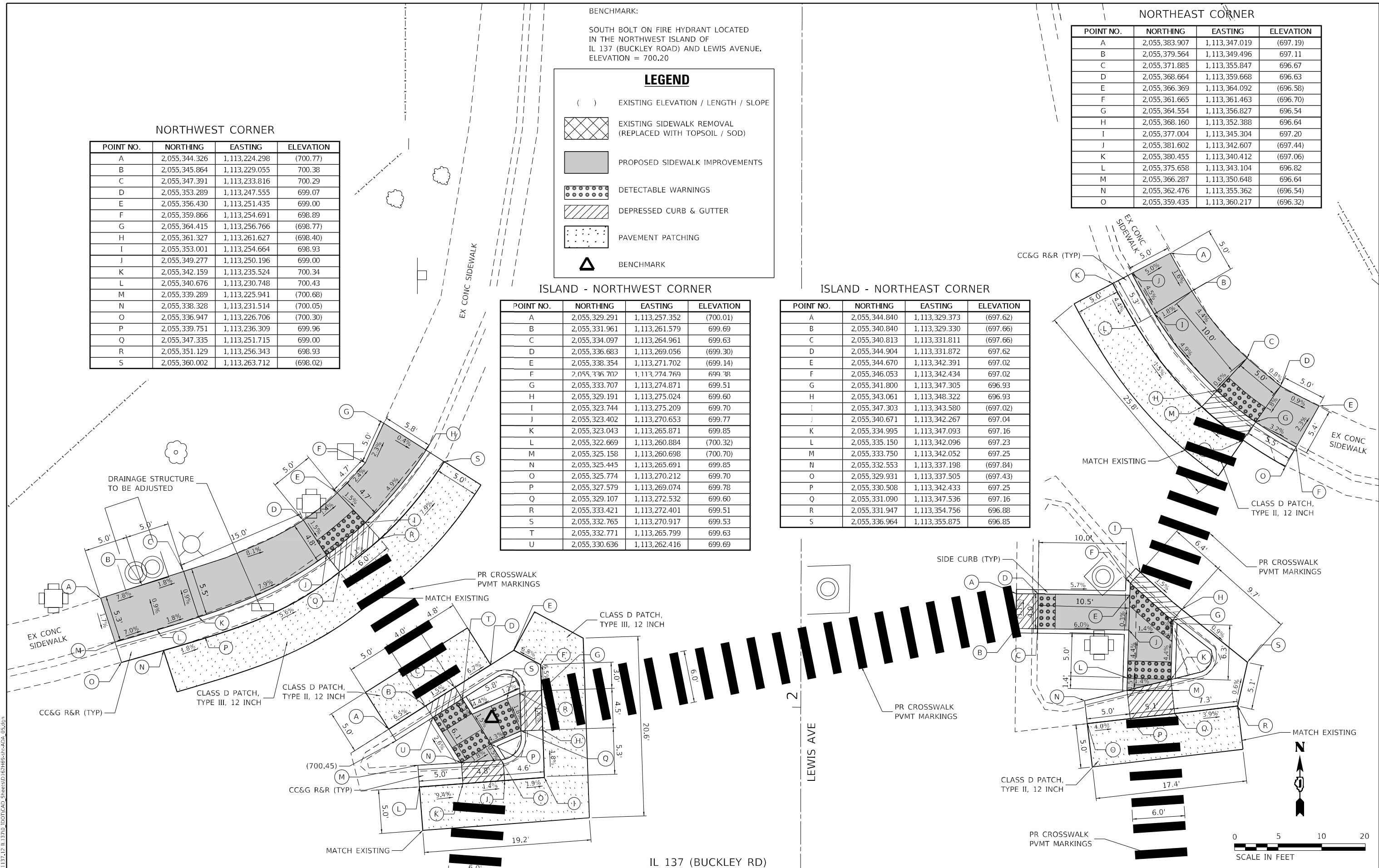
POINT NO.	NORTHING	EASTING	ELEVATION
A	2,055,329.291	1,113,257.352	(700.01)
B	2,055,331.961	1,113,261.579	699.69
C	2,055,334.097	1,113,264.961	699.63
D	2,055,336.683	1,113,269.056	(699.30)
E	2,055,338.354	1,113,271.702	(699.14)
F	2,055,336.702	1,113,274.769	699.38
G	2,055,333.707	1,113,274.871	699.51
H	2,055,329.191	1,113,275.024	699.60
I	2,055,323.744	1,113,275.209	699.70
J	2,055,323.402	1,113,270.653	699.77
K	2,055,323.043	1,113,265.871	699.85
L	2,055,322.669	1,113,260.884	(700.32)
M	2,055,325.158	1,113,260.698	(700.70)
N	2,055,325.445	1,113,265.691	699.85
O	2,055,325.774	1,113,270.212	699.70
P	2,055,327.579	1,113,269.074	699.78
Q	2,055,329.107	1,113,272.532	699.60
R	2,055,333.421	1,113,272.401	699.51
S	2,055,332.765	1,113,270.917	699.53
T	2,055,332.771	1,113,265.799	699.63
U	2,055,330.636	1,113,262.416	699.69

**ISLAND - NORTHEAST CORNER**

POINT NO.	NORTHING	EASTING	ELEVATION
A	2,055,344.840	1,113,329.373	(697.62)
B	2,055,340.840	1,113,329.330	(697.66)
C	2,055,340.813	1,113,331.811	(697.66)
D	2,055,344.904	1,113,331.872	697.62
E	2,055,344.670	1,113,342.391	697.02
F	2,055,346.053	1,113,342.434	697.02
G	2,055,341.800	1,113,347.305	696.93
H	2,055,343.061	1,113,348.322	696.93
I	2,055,347.303	1,113,343.580	(697.02)
J	2,055,340.671	1,113,342.267	697.04
K	2,055,334.995	1,113,347.093	697.16
L	2,055,335.150	1,113,342.096	697.23
M	2,055,333.750	1,113,342.052	697.25
N	2,055,332.553	1,113,337.198	(697.84)
O	2,055,329.931	1,113,337.505	(697.43)
P	2,055,330.508	1,113,342.433	697.25
Q	2,055,331.090	1,113,347.536	697.16
R	2,055,331.947	1,113,354.756	696.88
S	2,055,336.964	1,113,355.875	696.85

**NORTHEAST CORNER**

POINT NO.	NORTHING	EASTING	ELEVATION
A	2,055,383.907	1,113,347.019	(697.19)
B	2,055,379.564	1,113,349.496	697.11
C	2,055,371.885	1,113,355.847	696.67
D	2,055,368.664	1,113,359.668	696.63
E	2,055,366.369	1,113,364.092	(696.58)
F	2,055,361.665	1,113,361.463	(696.70)
G	2,055,364.554	1,113,356.827	696.54
H	2,055,368.160	1,113,352.388	696.64
I	2,055,377.004	1,113,345.304	697.20
J	2,055,381.602	1,113,342.607	(697.44)
K	2,055,380.455	1,113,340.412	(697.06)
L	2,055,375.658	1,113,343.104	696.82
M	2,055,366.287	1,113,350.648	696.64
N	2,055,362.476	1,113,355.362	(696.54)
O	2,055,359.435	1,113,360.217	(696.32)



MODEL: D:\p1\111370\_1107\CAD\_Sheets\111370-RS-SW-ADA\_05.dwg  
 FILE: 111370\_1107\CAD\_Sheets\111370-RS-SW-ADA\_05.dwg

**Kaskaskia**  
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Galesburg, Illinois 61404  
630.333.8107 phone  
www.kaskaskiaeng.com  
Professional Engineering Group

USER NAME	msecret
PLOT SCALE	1/16,000" = 1' / in.
PLOT DATE	1/21/2022

DESIGNED	-	REVISED	-
DRAWN	- KKH	REVISED	-
CHECKED	- BCD	REVISED	-
DATE	- 12/10/2021	REVISED	-

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

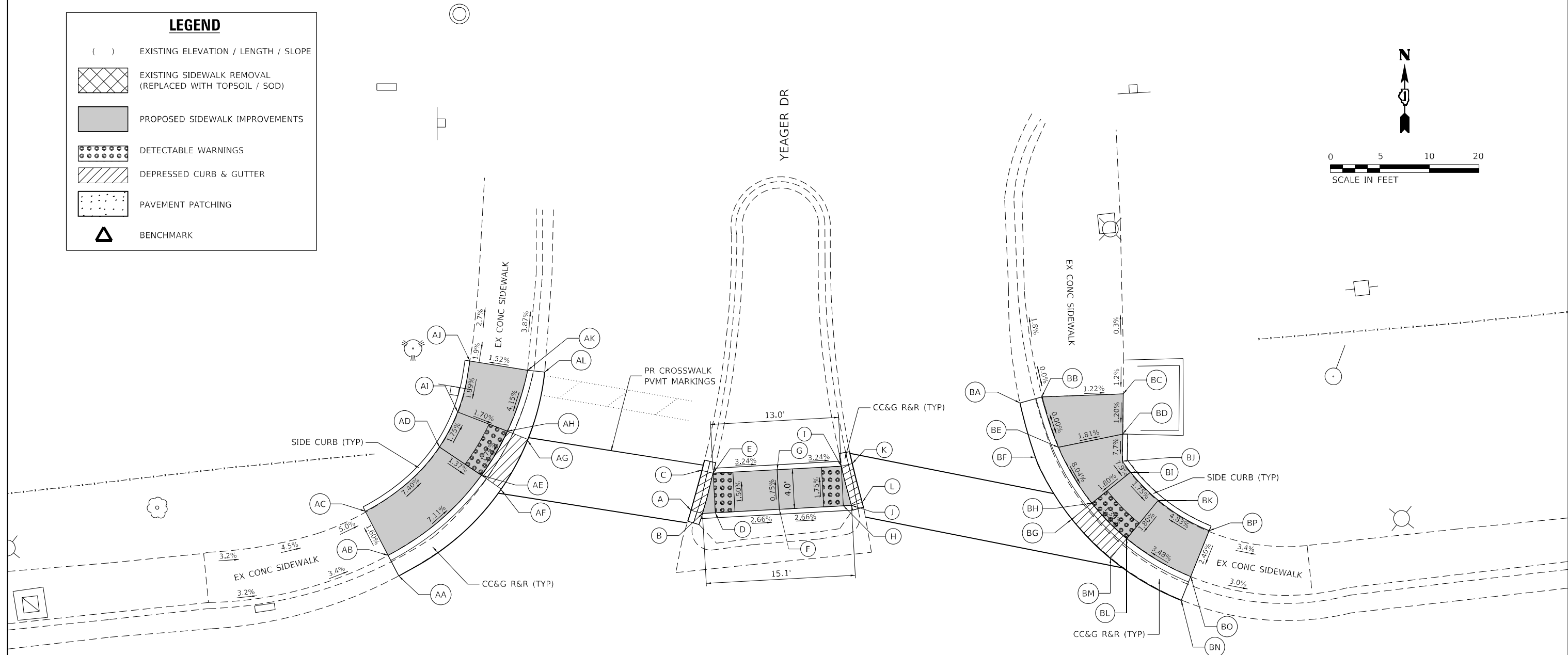
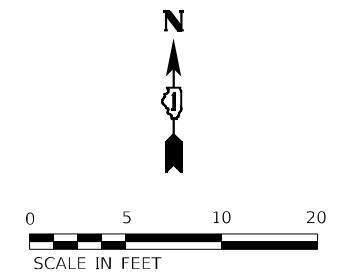
**ADA RAMP IMPROVEMENT PLAN**  
**IL 137 (BUCKLEY RD) & LEWIS AVE**  
SCALE: 1"=5'  
SHEET 7 OF 10 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2018-136-RS-SW	LAKE	66	23
CONTRACT NO. 62H69				
ILLINOIS FED. AID PROJECT				



BENCHMARK:  
 LOCATED IN THE NORTH ISLAND OF  
 IL 137 (BUCKLEY ROAD) AND YEAGER DR.  
 ELEVATION = 686.20

LEGEND	
( )	EXISTING ELEVATION / LENGTH / SLOPE
	EXISTING SIDEWALK REMOVAL (REPLACED WITH TOPSOIL / SOD)
	PROPOSED SIDEWALK IMPROVEMENTS
	DETECTABLE WARNINGS
	DEPRESSED CURB & GUTTER
	PAVEMENT PATCHING
	BENCHMARK



NORTHWEST CORNER

POINT NO.	NORTHING	EASTING	ELEVATION
AA	2,055,378.3682	1,113,621.2020	(686.95)
AB	2,055,380.4495	1,113,620.1272	(687.34)
AC	2,055,384.8921	1,113,617.8331	(687.26)
AD	2,055,391.3803	1,113,625.3048	686.52
AE	2,055,388.5252	1,113,629.5500	686.45
AF	2,055,387.0966	1,113,631.5124	(686.50)
AG	2,055,392.0461	1,113,634.1950	(686.38)
AH	2,055,392.9693	1,113,632.1812	686.36
AI	2,055,394.9192	1,113,627.1515	686.45
AJ	2,055,400.0630	1,113,628.3801	(686.55)
AK	2,055,399.1277	1,113,634.2111	(685.64)
AL	2,055,398.9407	1,113,635.9346	(686.22)

MEDIAN - NORTH LEG

POINT NO.	NORTHING	EASTING	ELEVATION
A	2,055,384.9947	1,113,650.7020	(686.13)
B	2,055,384.6741	1,113,651.8568	686.17
C	2,055,389.0118	1,113,651.8005	(686.10)
D	2,055,384.7439	1,113,653.1426	686.20
E	2,055,388.7380	1,113,652.9260	686.14
F	2,055,385.0945	1,113,659.6081	685.96
G	2,055,389.0887	1,113,659.3915	685.93
H	2,055,385.4452	1,113,666.0736	685.79
I	2,055,389.4393	1,113,665.8570	685.72
J	2,055,385.4894	1,113,666.8882	685.77
K	2,055,389.7044	1,113,666.9699	(685.70)
L	2,055,385.7794	1,113,667.9753	(685.73)

NORTHEAST CORNER

POINT NO.	NORTHING	EASTING	ELEVATION
BA	2,055,395.8315	1,113,683.8889	(685.21)
BB	2,055,396.4228	1,113,686.0788	(685.66)
BC	2,055,396.7423	1,113,694.3112	(686.56)
BD	2,055,392.6932	1,113,694.2559	(686.51)
BE	2,055,391.3523	1,113,687.7659	685.63
BF	2,055,390.3574	1,113,685.4432	(685.21)
BG	2,055,384.1022	1,113,689.1244	(685.10)
BH	2,055,385.7157	1,113,691.1419	685.10
BI	2,055,388.8386	1,113,695.0467	685.19
BJ	2,055,389.9538	1,113,694.2185	685.30
BK	2,055,385.9932	1,113,697.8480	685.12
BL	2,055,382.1376	1,113,694.6646	685.03
BM	2,055,380.1456	1,113,693.0198	(685.04)
BN	2,055,375.9038	1,113,700.1659	(684.94)
BO	2,055,378.3017	1,113,701.1269	(685.29)
BP	2,055,382.9428	1,113,702.9870	(685.41)

MODEL Dwg: IL137-ADA-RAMP-IMP-PLAN-01.dwg  
 FILE NAME: P:\137-ADA-RAMP-IMP-PLAN-01.dwg  
 47 South Third Street  
 Suite 200  
 Geneva, Illinois 60134  
 630.333.8100 phone  
 www.kaskaskiaeng.com  
 Kaskaskia  
 Engineering Group, LLC  
 Illinois Professional Design Firm  
 04/20/2014  
 31-388536

Kaskaskia  
 Engineering Group, LLC

USER NAME	DESIGNED	REVISIONS
mmestrest	-	-
DRAWN	REVISIONS	-
KKH	-	-
PLOT SCALE	CHECKED	REVISIONS
1/16,0000" = 1' / in.	BCD	-
PLOT DATE	DATE	REVISIONS
1/20/2022	12/10/2021	-

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ADA RAMP IMPROVEMENT PLAN IL 137 (BUCKLEY RD) & YEAGER DR			
SCALE: 1"=5'	SHEET 6	OF 10 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2018-136-RS-SW	LAKE	66	24
CONTRACT NO. 62H69				
ILLINOIS FED. AID PROJECT				









NORTHWEST CORNER

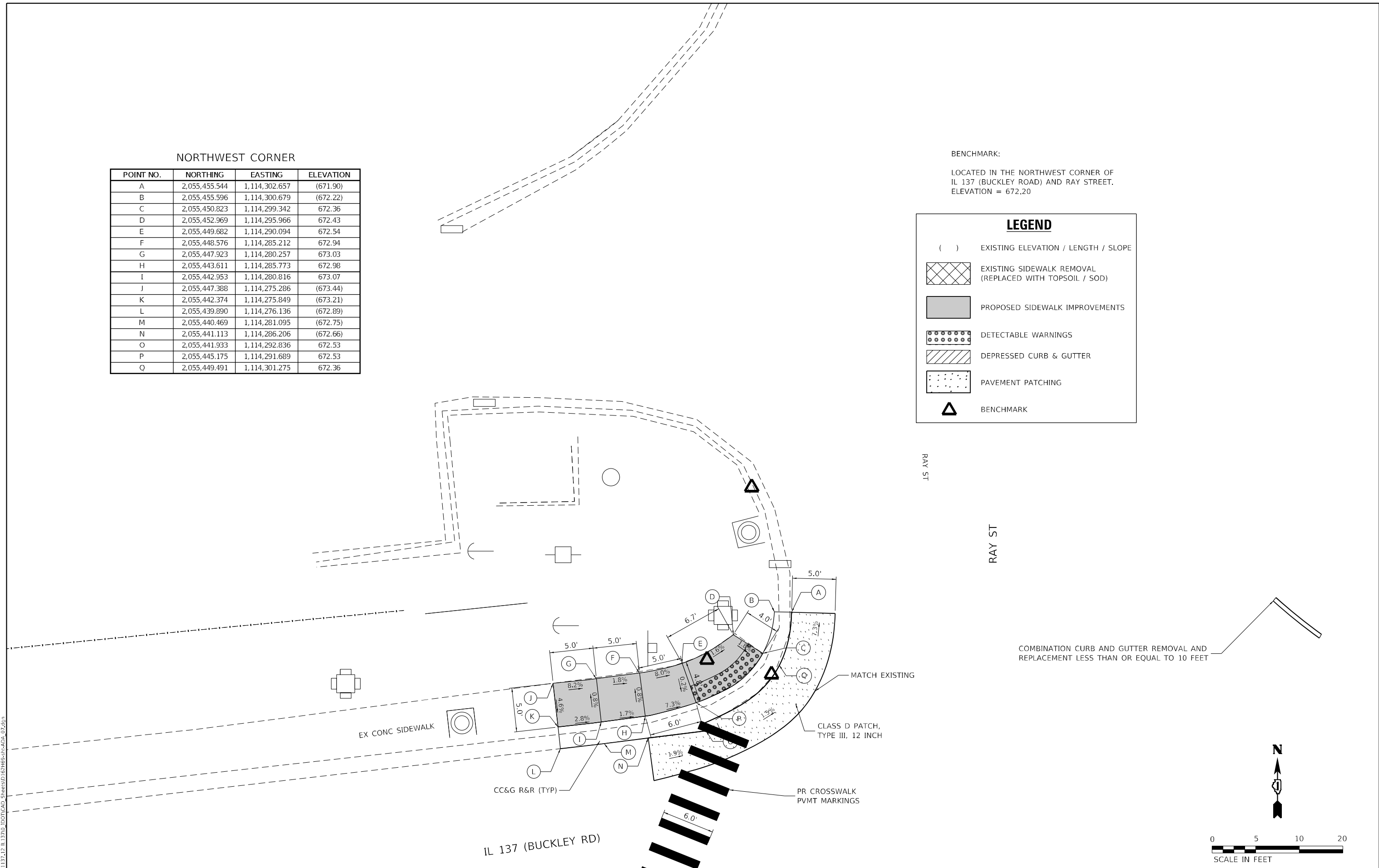
POINT NO.	NORTHING	EASTING	ELEVATION
A	2,055,455.544	1,114,302.657	(671.90)
B	2,055,455.596	1,114,300.679	(672.22)
C	2,055,450.823	1,114,299.342	672.36
D	2,055,452.969	1,114,295.966	672.43
E	2,055,449.682	1,114,290.094	672.54
F	2,055,448.576	1,114,285.212	672.94
G	2,055,447.923	1,114,280.257	673.03
H	2,055,443.611	1,114,285.773	672.98
I	2,055,442.953	1,114,280.816	673.07
J	2,055,447.388	1,114,275.286	(673.44)
K	2,055,442.374	1,114,275.849	(673.21)
L	2,055,439.890	1,114,276.136	(672.89)
M	2,055,440.469	1,114,281.095	(672.75)
N	2,055,441.113	1,114,286.206	(672.66)
O	2,055,441.933	1,114,292.836	672.53
P	2,055,445.175	1,114,291.689	672.53
Q	2,055,449.491	1,114,301.275	672.36

BENCHMARK:

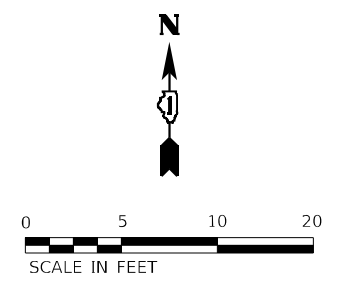
LOCATED IN THE NORTHWEST CORNER OF  
IL 137 (BUCKLEY ROAD) AND RAY STREET.  
ELEVATION = 672.20

**LEGEND**

- ( ) EXISTING ELEVATION / LENGTH / SLOPE
-  EXISTING SIDEWALK REMOVAL  
(REPLACED WITH TOPSOIL / SOD)
-  PROPOSED SIDEWALK IMPROVEMENTS
-  DETECTABLE WARNINGS
-  DEPRESSED CURB & GUTTER
-  PAVEMENT PATCHING
-  BENCHMARK



COMBINATION CURB AND GUTTER REMOVAL AND  
REPLACEMENT LESS THAN OR EQUAL TO 10 FEET



MODEL: D:\64\11...  
FILE: 20181117\_12\_IL13710\_IDOT\CAD\_Sheets\121816RS-SW-ADA\_07.dgn

**Kaskaskia**  
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Professional Engineering Group

USER NAME	msecret	DESIGNED	-	REVISED	-	
DRAWN	-	KKH	-	REVISED	-	
PLOT SCALE	1/16,000" = 1' / in.	CHECKED	-	REVISED	-	
PLOT DATE	1/21/2022	DATE	-	12/10/2021	REVISED	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ADA RAMP IMPROVEMENT PLAN  
IL 137 (BUCKLEY RD) & RAY ST**

SCALE: 1"=5'      SHEET 9 OF 10 SHEETS      STA.      TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2018-136-RS-SW	LAKE	66	26
CONTRACT NO. 62H69				
ILLINOIS FED. AID PROJECT				



SOUTHEAST CORNER

POINT NO.	NORTHING	EASTING	ELEVATION
A	2,055,023.578	1,115,835.425	(635.75)
B	2,055,023.602	1,115,829.425	(635.67)
C	2,055,038.577	1,115,835.520	634.20
D	2,055,038.602	1,115,829.487	634.18
E	2,055,043.577	1,115,835.551	634.11
F	2,055,043.602	1,115,829.507	634.09
G	2,055,058.536	1,115,829.568	632.97
H	2,055,058.575	1,115,836.122	632.91
I	2,055,058.435	1,115,846.122	(632.91)
J	2,055,067.927	1,115,846.119	(632.51)
K	2,055,070.427	1,115,846.118	(632.13)
L	2,055,065.890	1,115,836.122	632.78
M	2,055,068.194	1,115,835.152	632.78
N	2,055,058.550	1,115,826.220	632.99
O	2,055,058.412	1,115,823.011	633.00
P	2,055,055.594	1,115,821.203	(633.26)
Q	2,055,054.395	1,115,823.397	(633.62)

SOUTHWEST CORNER

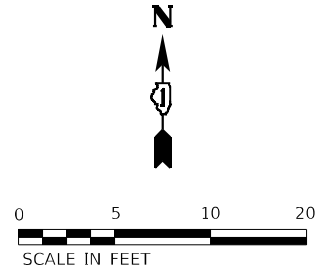
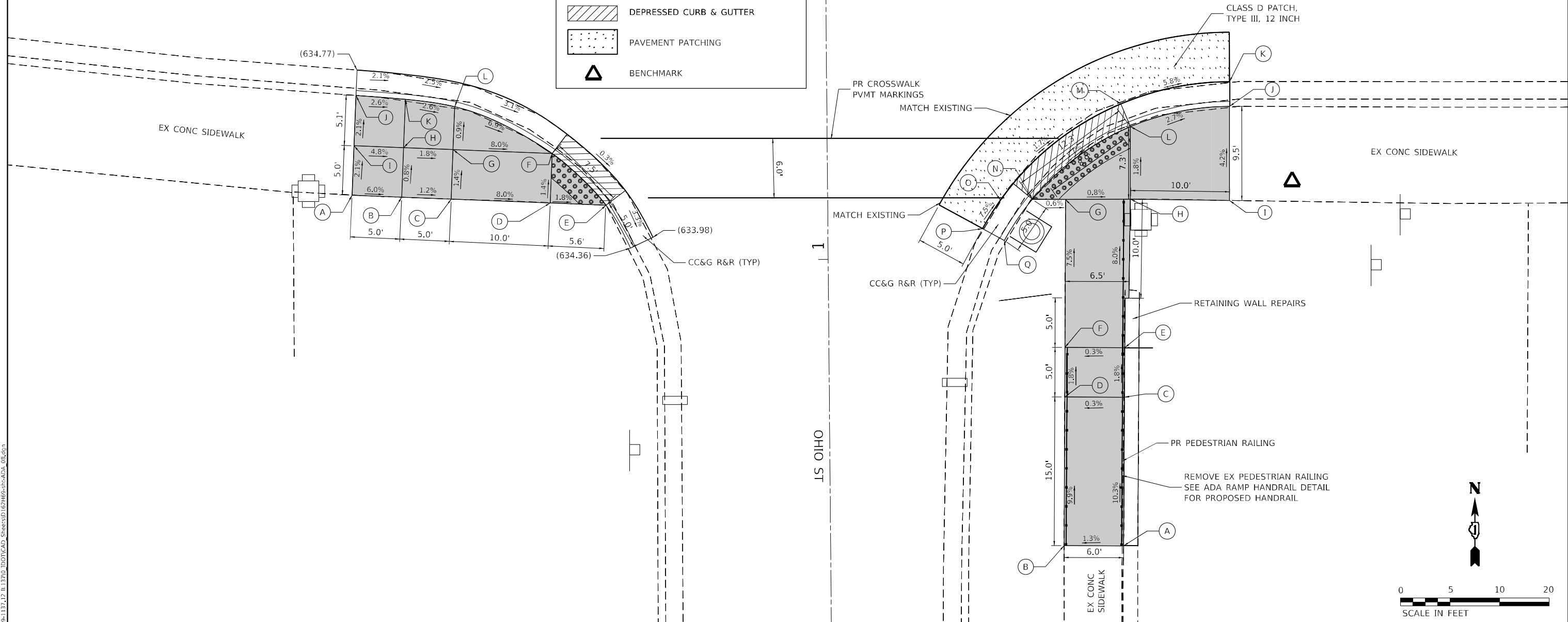
POINT NO.	NORTHING	EASTING	ELEVATION
A	2,055,058.959	1,115,757.581	(635.36)
B	2,055,058.764	1,115,762.577	635.06
C	2,055,058.569	1,115,767.574	635.00
D	2,055,058.179	1,115,777.566	634.20
E	2,055,057.960	1,115,783.197	634.10
F	2,055,063.176	1,115,777.761	634.13
G	2,055,063.566	1,115,767.769	634.93
H	2,055,063.761	1,115,762.772	635.02
I	2,055,063.956	1,115,757.776	(635.20)
J	2,055,069.033	1,115,757.974	(635.15)
K	2,055,068.645	1,115,762.963	635.02
L	2,055,067.897	1,115,767.938	634.89

BENCHMARK:

LOCATED IN THE SOUTHEAST CORNER OF IL 137 (BUCKLEY RD) AND OHIO STREET. ELEVATION = 632.62

**LEGEND**

- ( ) EXISTING ELEVATION / LENGTH / SLOPE
- EXISTING SIDEWALK REMOVAL (REPLACED WITH TOPSOIL / SOD)
- PROPOSED SIDEWALK IMPROVEMENTS
- DETECTABLE WARNINGS
- DEPRESSED CURB & GUTTER
- PAVEMENT PATCHING
- BENCHMARK



MODEL: D:\p1\10-1137-12\_IL137-12\DOT\CAD\_Sheets\12162168-rt-ADA-08.dgn

**Kaskaskia**  
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471 South Third Street  
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Geneseo, Illinois 60134  
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www.kaskaskiaeng.com

USER NAME	DESIGNED	REVISIONS
DRAWN	CHECKED	DATE
PLOT SCALE	DATE	
PLOT DATE		

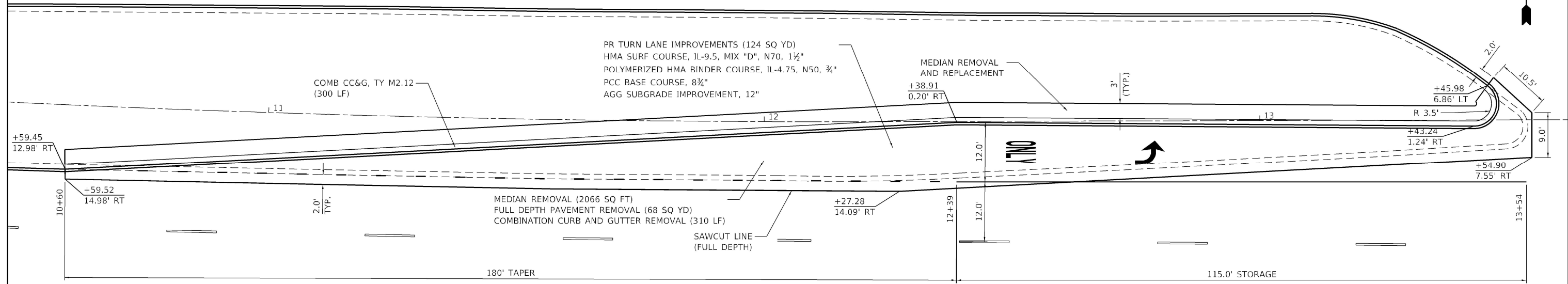
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ADA RAMP IMPROVEMENT PLAN  
IL 137 (BUCKLEY RD) & OHIO ST**

SCALE: 1"=5'      SHEET 10 OF 10 SHEETS      STA.      TO STA.

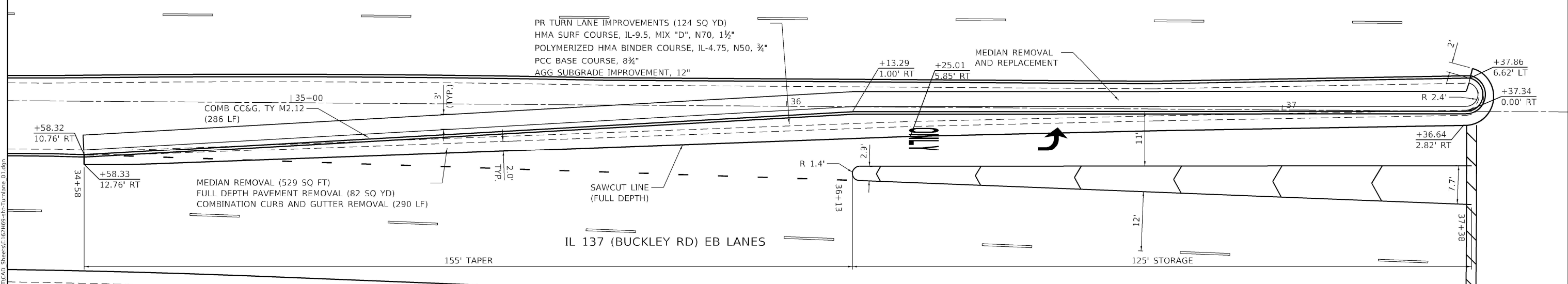
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2018-136-RS-SW	LAKE	66	27
CONTRACT NO. 62H69				
ILLINOIS FED. AID PROJECT				

IL 137 (BUCKLEY RD) WB LANES



IL 137 (BUCKLEY RD) EB LANES

IL 137 (BUCKLEY RD) WB LANES



IL 137 (BUCKLEY RD) EB LANES

MODEL: Default  
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**Kaskaskia**  
Engineering Group, LLC  
47 South Third Street  
Suite 200  
Galesburg, Illinois 61434  
630.332.8187 phone  
www.kaskaskiaeng.com  
Illinois Professional Design Firm  
34-06713  
31-588536

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PLOT DATE	= 1/27/2022

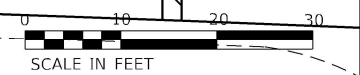
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DATE	- 12/10/2021	REVISED	-

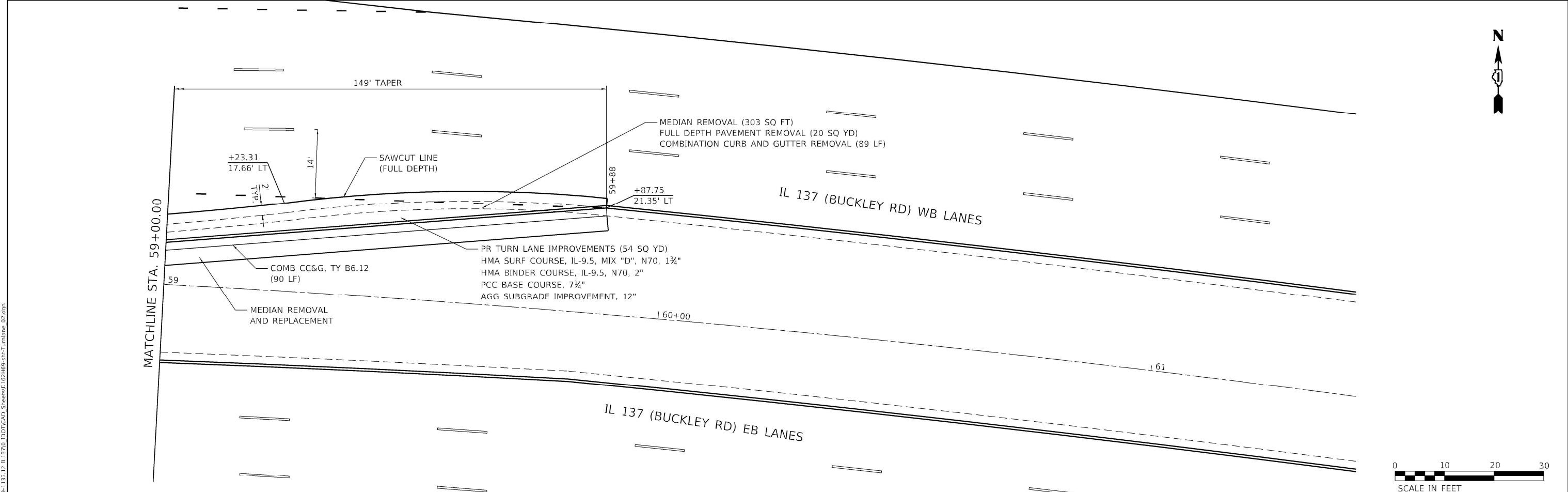
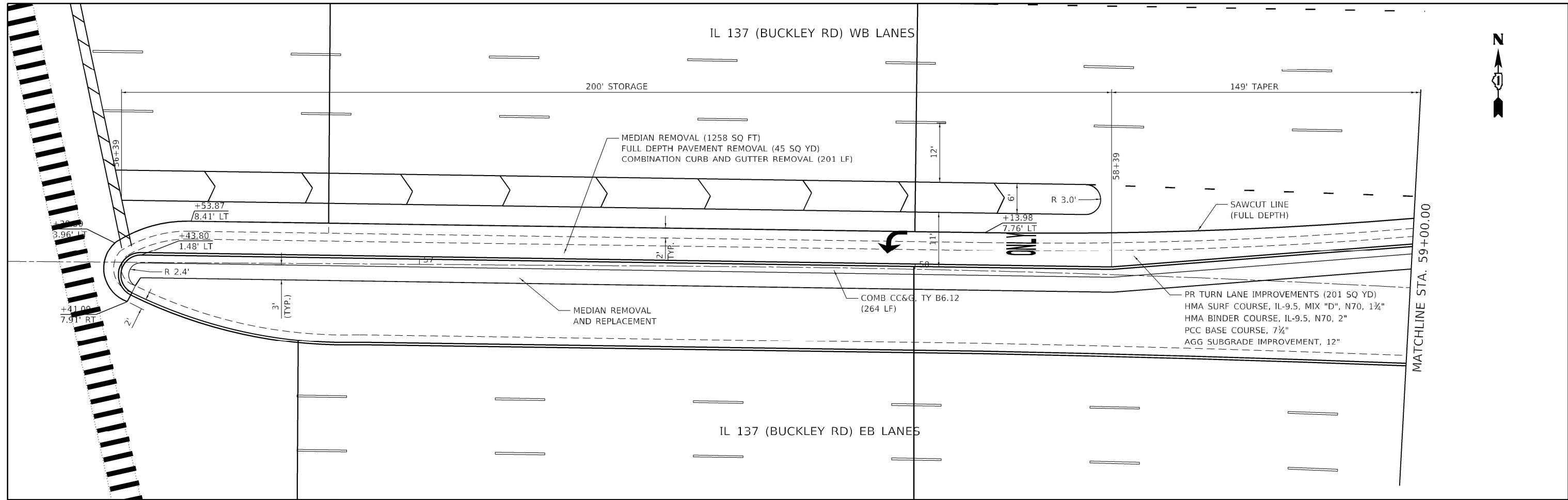
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**TURN LANE IMPROVEMENTS - IL 137 (BUCKLEY RD)**  
**W FRONTENAC ST TO IL 137 (BOBBY THOMPSON EXPWY)**

SCALE: 1"=10'    SHEET 1 OF 2 SHEETS    STA. 10+59 TO STA. 13+54  
STA. 34+58 TO STA. 37+38

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2018-136-RS-SW	LAKE	66	28
CONTRACT NO. 62H69				
ILLINOIS FED. AID PROJECT				





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**Kaskaskia**  
Engineering Group, LLC  
471 South Third Street  
Holt, IL 61731  
609.522.8107  
www.kaskaskiaeng.com

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PLOT SCALE = 20.0000" / in.
PLOT DATE = 12/22/2021

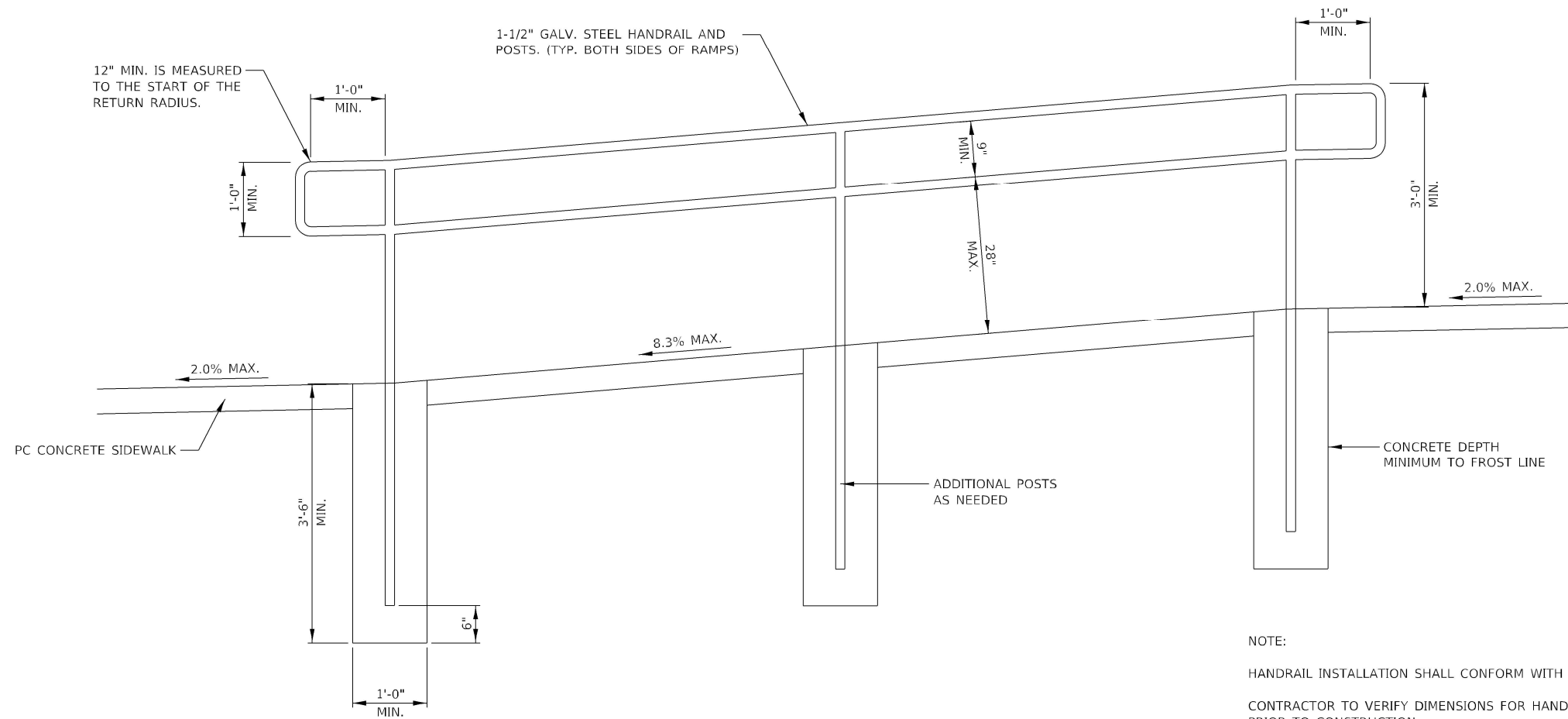
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CHECKED -	REVISD -
DATE - 12/10/2021	REVISD -

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

**TURN LANE IMPROVEMENTS - IL 137 (BUCKLEY RD)**  
**W FRONTENAC ST TO IL 137 (BOBBY THOMPSON EXPWY)**

SCALE: 1"=10'  
SHEET 2 OF 2 SHEETS  
STA. 56+00.00 TO STA. 60+00.00

F.A.P. RTE. 352	SECTION 2018-136-RS-SW	COUNTY LAKE	TOTAL SHEETS 66	SHEET NO. 29
CONTRACT NO. 62H69				
ILLINOIS FED. AID PROJECT				



**ADA RAMP HANDRAIL DETAIL**  
NOT TO SCALE

**NOTE:**

HANDRAIL INSTALLATION SHALL CONFORM WITH CURRENT A.D.A. REQUIREMENTS.

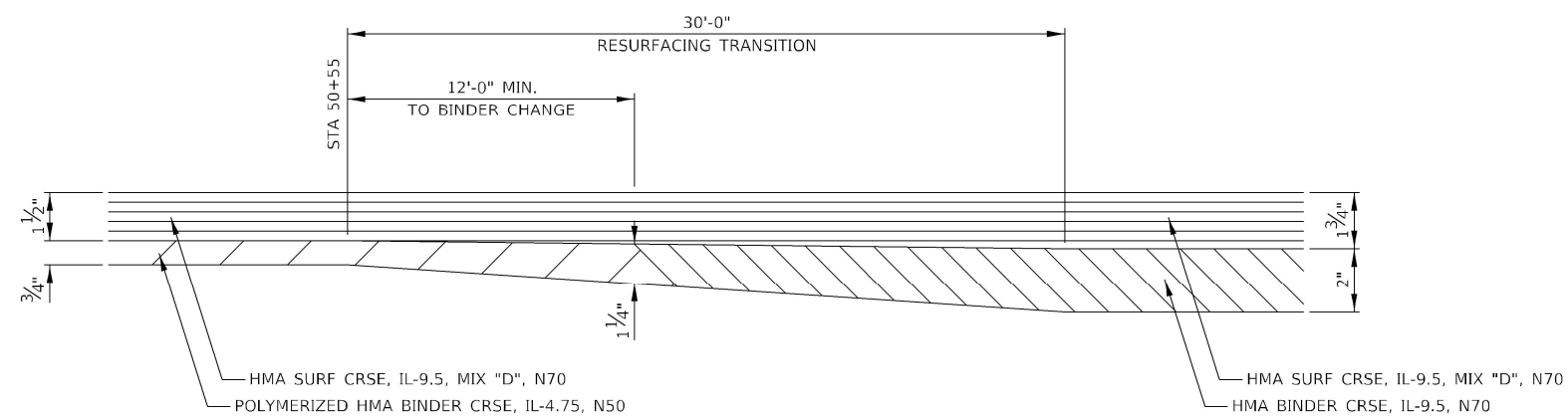
CONTRACTOR TO VERIFY DIMENSIONS FOR HANDRAIL CONSTRUCTION AND DIMENSIONS PRIOR TO CONSTRUCTION.

EXTENSIONS 12" LONG MIN. IN THE SAME DIRECTION OF THE TRAVEL ARE REQUIRED AT THE TOP AND BOTTOM OF RUNS TO PROVIDE SUPPORT BEFORE ENTERING OR EXITING RAMPS.

HANDRAILS MUST BE CONTINUOUS THE FULL LENGTH OF THE RUN AND TOPS AND SIDES OF GRIPPING SURFACE CANNOT BE OBSTRUCTED.

BOTTOM GRIPPING SURFACE CAN BE OBSTRUCTED UP TO 20% OF THE LENGTH.

DISTANCE BETWEEN HANDRAILS TO BE MAXIMIZED BASED ON RAMP WIDTH AND LOCATION OF FOOTINGS MINIMUM CLEARANCE 36".



**RESURFACING TRANSITION DETAIL**  
NOT TO SCALE

MODEL: Default  
FILE NAME: P:\13-137-12\_IL137D\_IDOT\CAD\_Sheets\1216168.rvt:DET\_01.dgn



47 South Third Street  
Suite 200  
Galesburg, Illinois 61434  
630.332.8187 phone  
www.kaskaskiaeng.com  
1872 South 5th  
Urbana, Illinois 61702  
314.367.1111  
31-588536

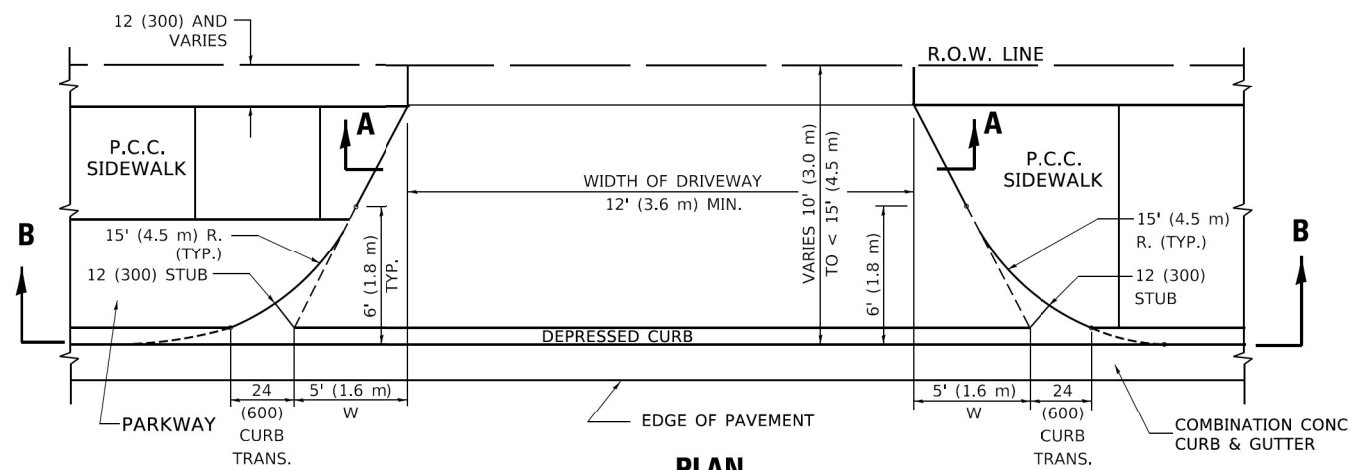
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	DATE - 12/10/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

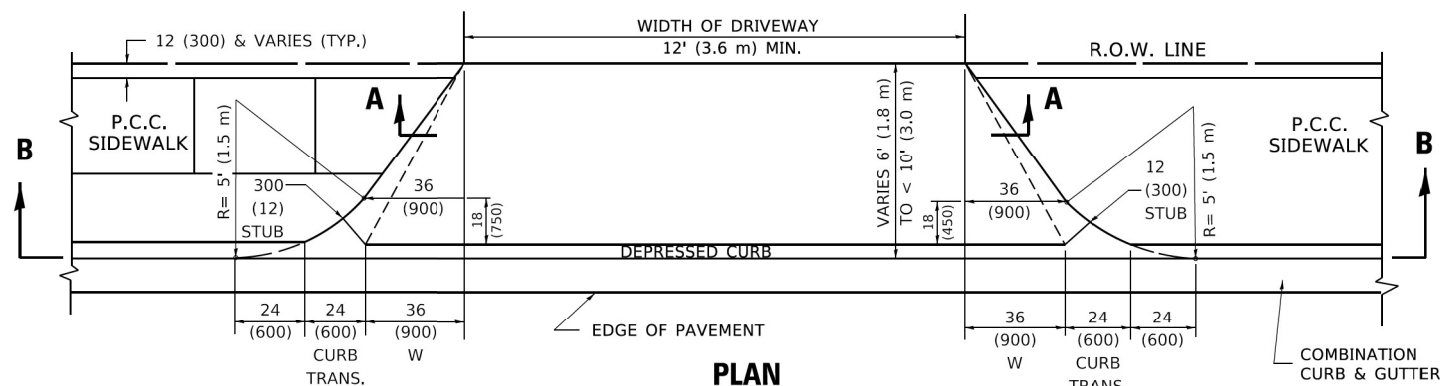
**CONSTRUCTION DETAILS - IL 137 (BUCKLEY RD)  
W FRONTENAC ST TO IL 137 (BOBBY THOMPSON EXPWY)**

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

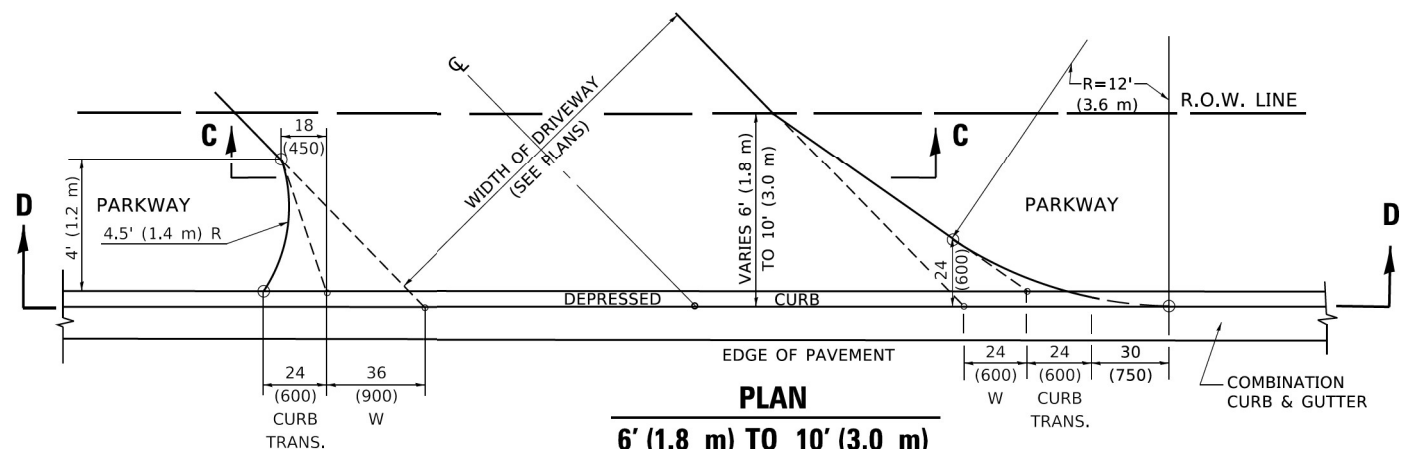
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2018-136-RS-SW	LAKE	66	30
CONTRACT NO. 62H69				
ILLINOIS FED. AID PROJECT				



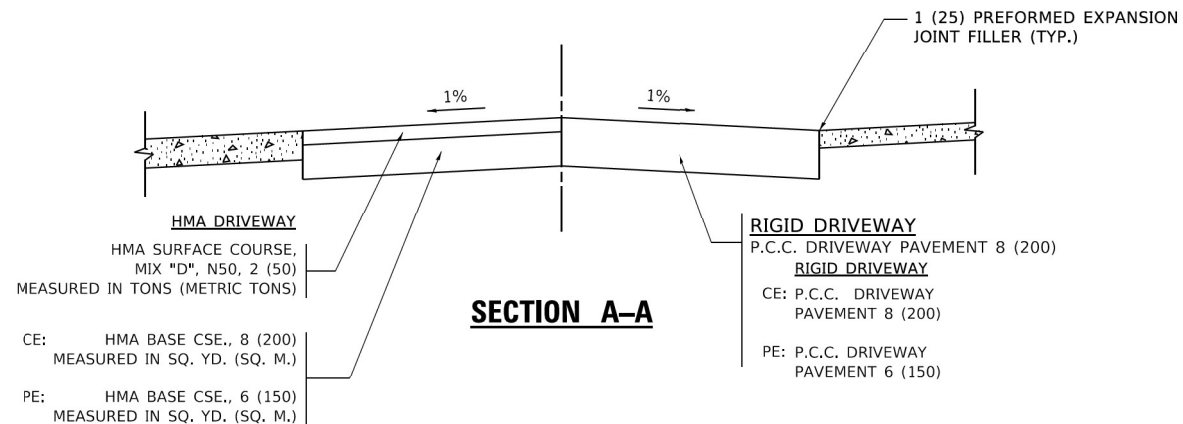
**PLAN**  
**10' (3.0 m) TO < 15' (4.5 m)**



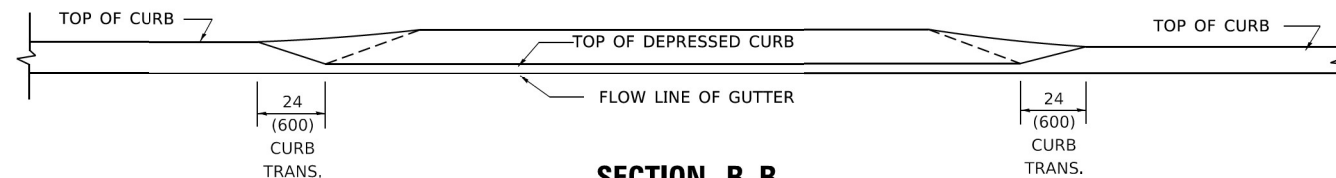
**PLAN**  
**6' (1.8 m) TO < 10' (3.0 m)**



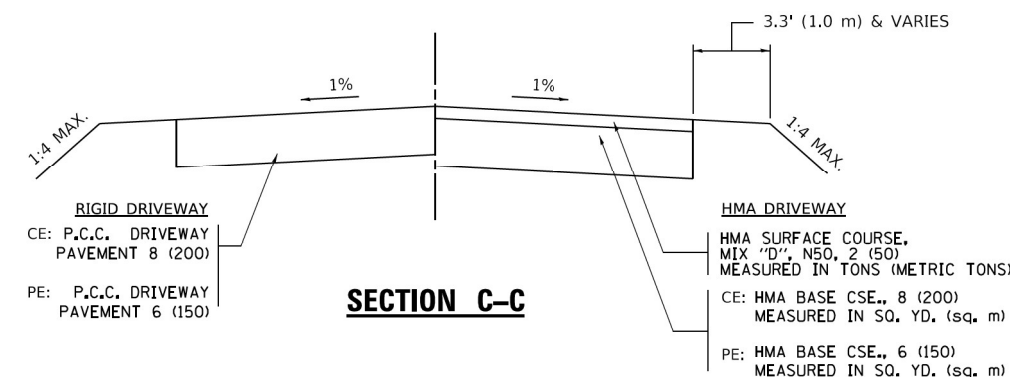
**PLAN**  
**6' (1.8 m) TO 10' (3.0 m)**



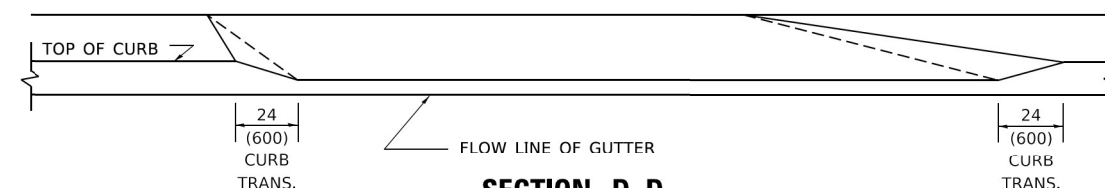
**SECTION A-A**



**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 P.C.C. SIDEWALK SHALL EXTEND TO THE BACK OF CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

THE 1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

"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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PLOT DATE = 3/27/2019	CHECKED -	REVISED - R. BORO 01-01-07
	DATE - 11-06-95	REVISED - R. BORO 09-06-11

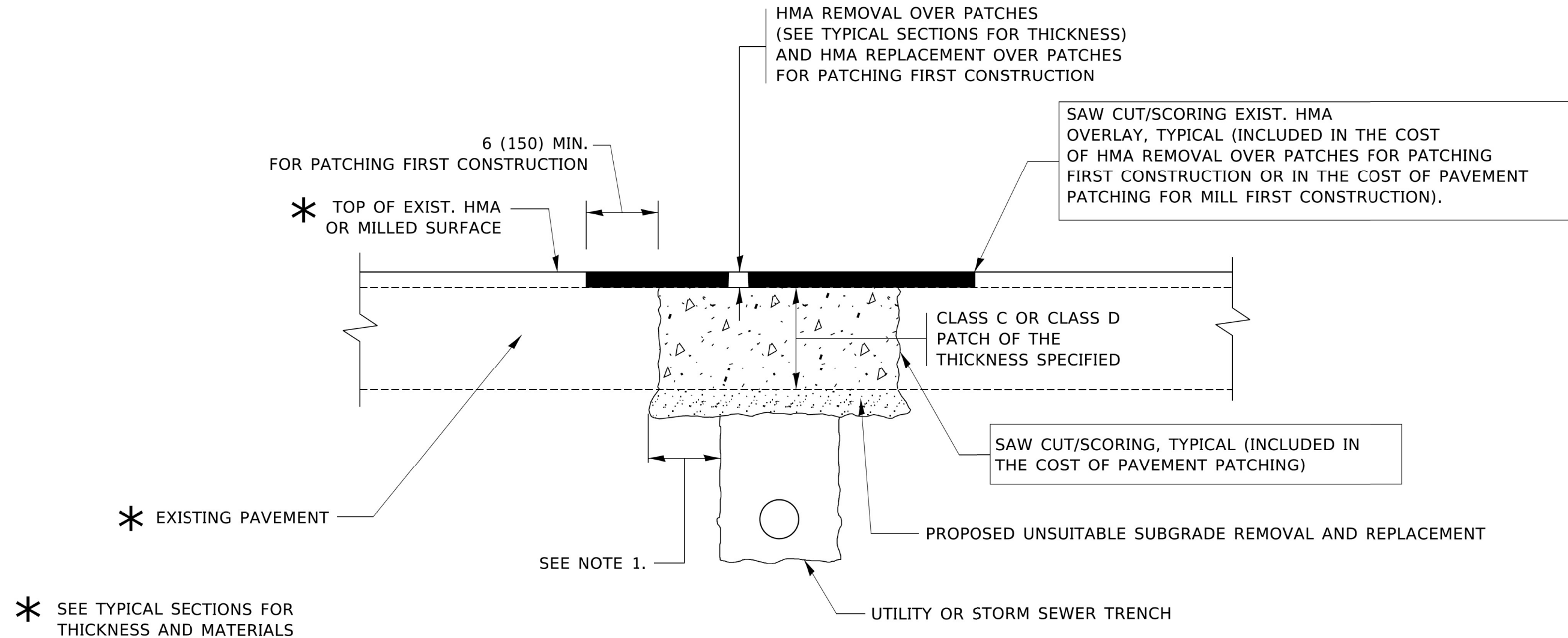
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**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	2018-136-RS-SW	LAKE	66	31
BD400-02 (BD-02)		CONTRACT NO. 62H69		
ILLINOIS FED. AID PROJECT				





**NOTES:**

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

**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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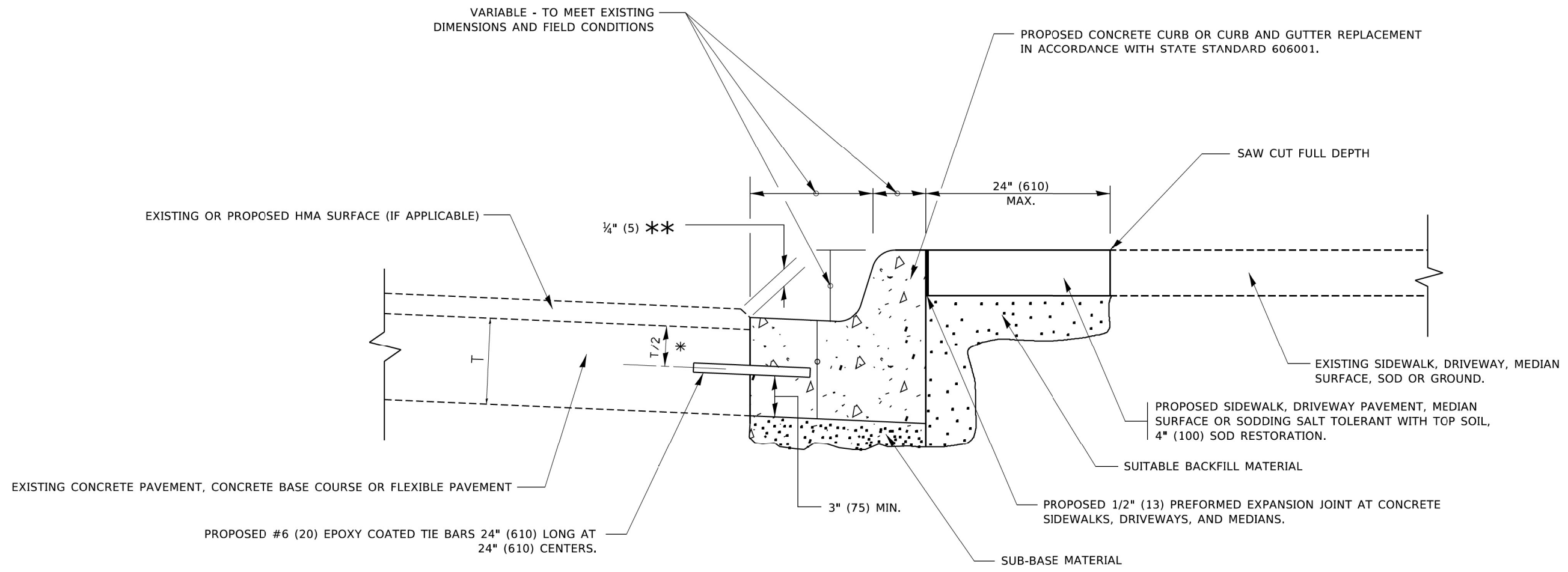
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PLOT DATE = 3/27/2019	DATE - 10-25-94	REVISED - K. ENG 10-27-08

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	2018-136-RS-SW	LAKE	66	33
BD400-04 (BD-22)		CONTRACT NO. 62H69		
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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PLOT SCALE = 50,0000 ' / ft.	CHECKED -	REVISED - R. BORO 12-15-09
PLOT DATE = 7/11/2019	DATE - 03-11-94	REVISED - K. SMITH 07-11-19

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

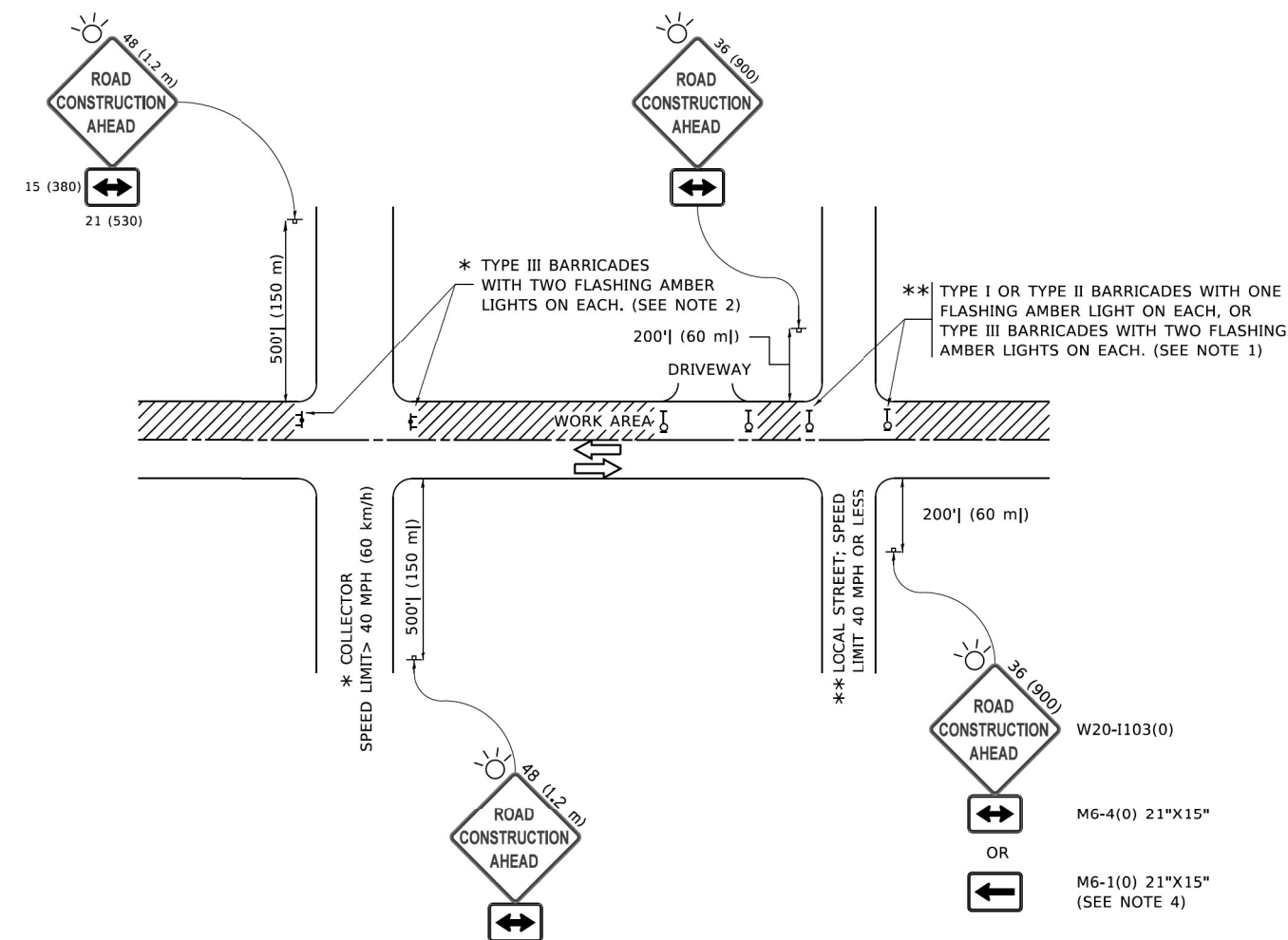
**CURB OR CURB AND GUTTER  
REMOVAL AND REPLACEMENT**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2018-136-RS-SW	LAKE	66	34
<b>BD600-06 (BD-24)</b>			CONTRACT NO. 62H69	
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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	DRAWN -	REVISED - T. RAMMACHER 01-06-00
PLOT SCALE = 50,0000 1/16"	CHECKED -	REVISED - A. SCHUETZE 07-01-13
PLOT DATE = 3/4/2019	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2018-136-RS-SW	LAKE	66	36
<b>TC-10</b>			CONTRACT NO. 62H69	
ILLINOIS FED. AID PROJECT				

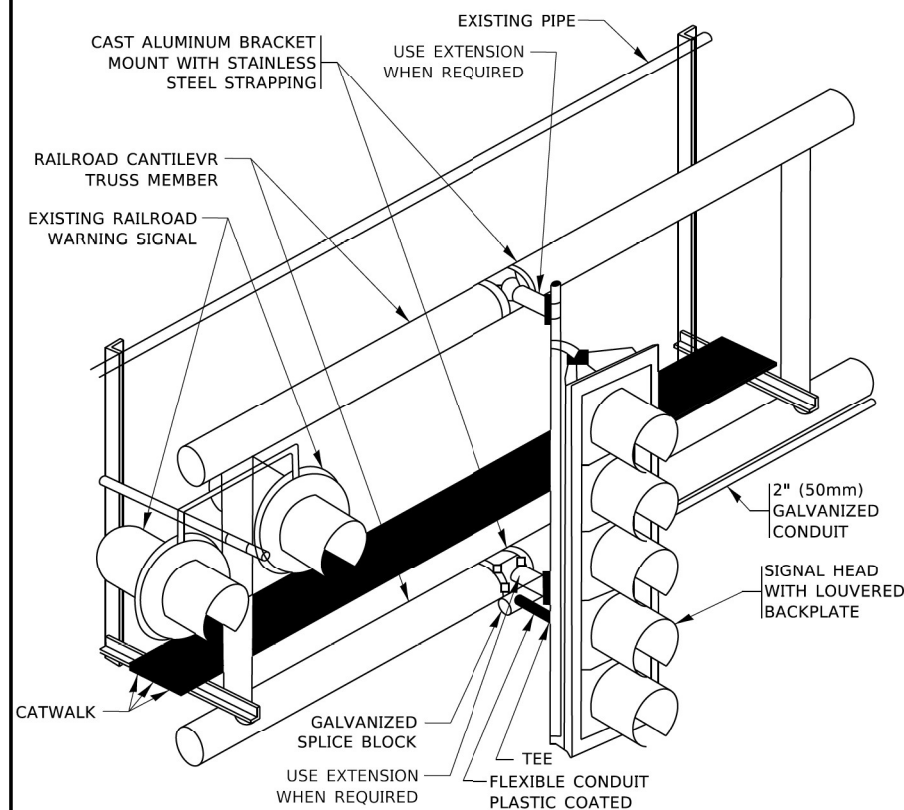












**RAILROAD CANTILEVER SIGNAL HEAD MOUNTING**

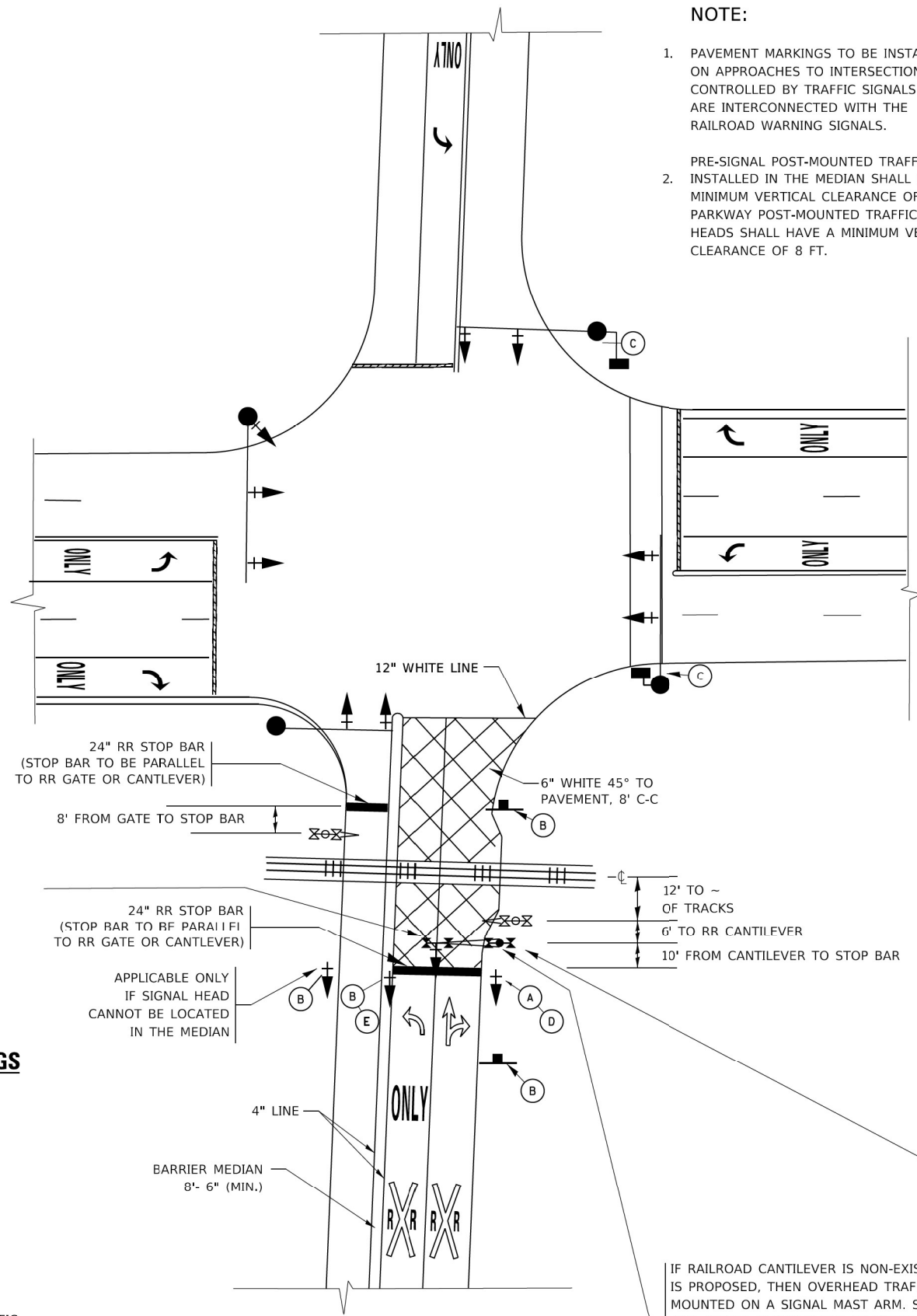
USE NON-CONDUCTIVE SPACERS BETWEEN THE TRAFFIC SIGNAL EQUIPMENT AND THE RAILROAD CANTILEVER TO PREVENT DISSIMILAR METAL CORROSION  
N.T.S.

**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.

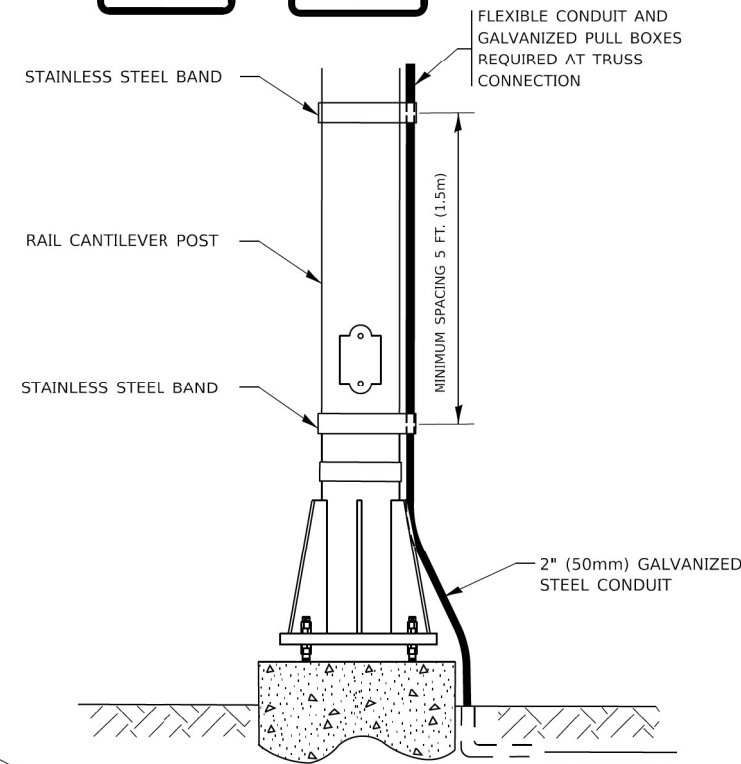
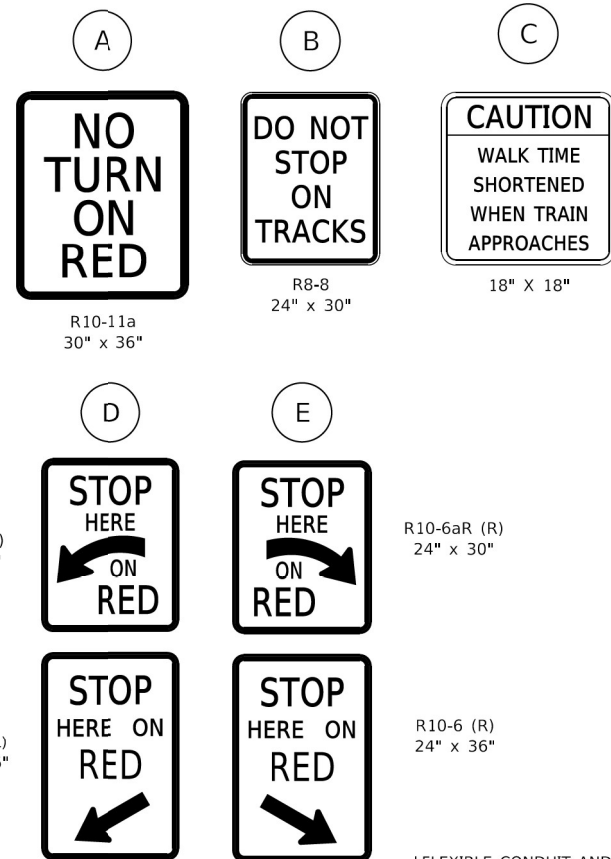
THESE DETAILS WILL BE INCLUDED IN A FUTURE UPDATE TO THE BUREAU OF OPERATIONS TRAFFIC POLICIES AND PROCEDURES MANUAL.



**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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PLOT SCALE = 50,0000 ' / ft.	CHECKED -	REVISED - A.R. 07-11-16
PLOT DATE = 8/22/2019	DATE -	REVISED - D.G. 8-22-19

**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.

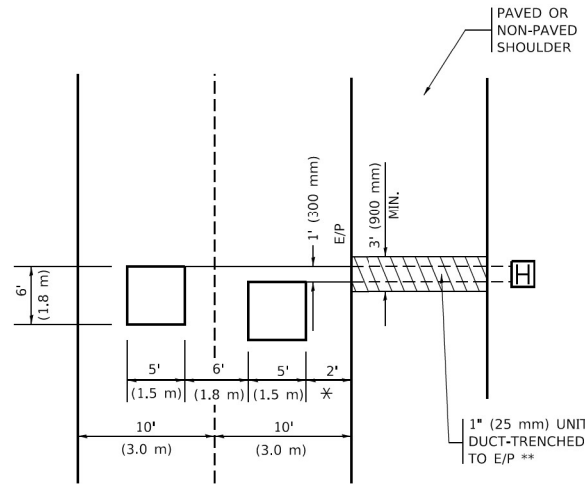
F.A.P. RTE. 352	SECTION 2018-136-RS-SW	COUNTY LAKE	TOTAL SHEETS 66	SHEET NO. 42
<b>TC-23</b>			CONTRACT NO. 62H69	
ILLINOIS FED. AID PROJECT				





**LOOPS NEXT TO SHOULDERS**

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

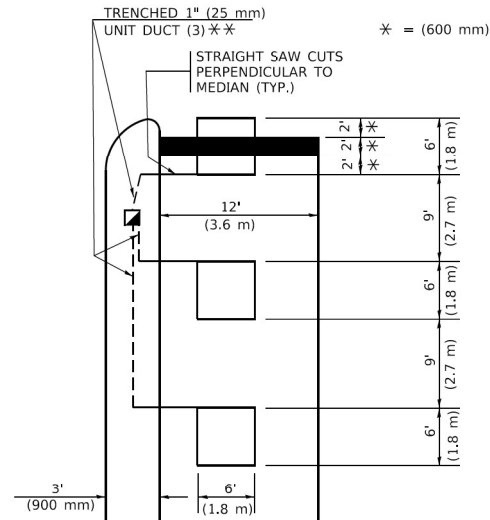


\* = (600 mm)

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

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

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

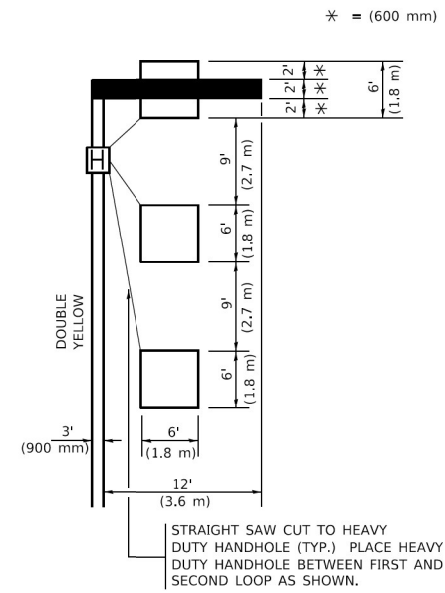


\* = (600 mm)

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

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

**LEFT TURN LANES WITHOUT MEDIANS**  
**VOLUME DENSITY ("FAR OUT" DETECTION)**  
**ON SAME APPROACH**  
**(PROTECTED / PERMITTED LEFT TURN PHASING)**



\* = (600 mm)

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

**NOTES:**

**VEHICLES LOOP DETECTORS**

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

**PLACEMENT OF DETECTORS**

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

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

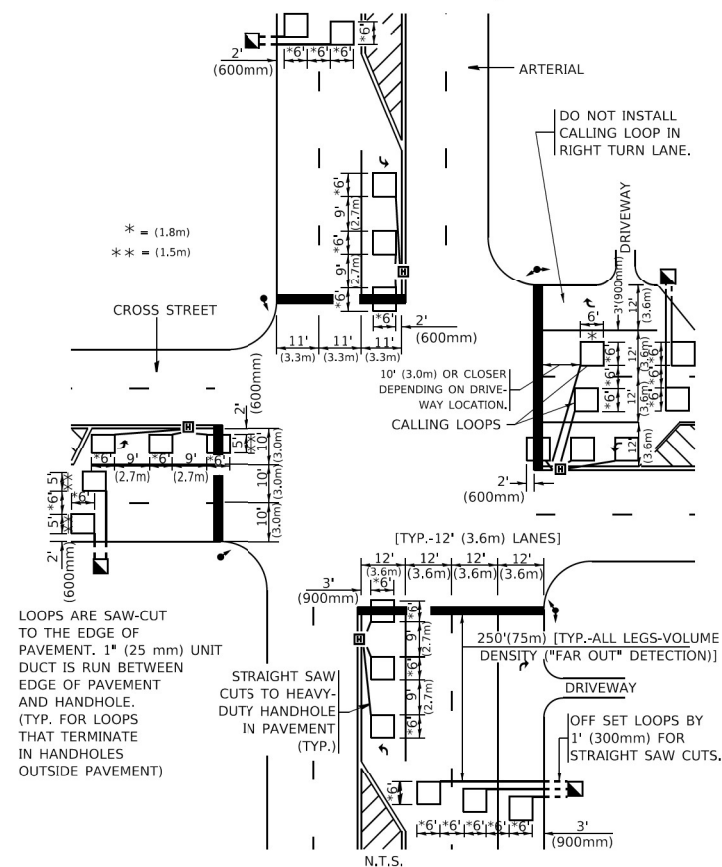
"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0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

**NOTE:**

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

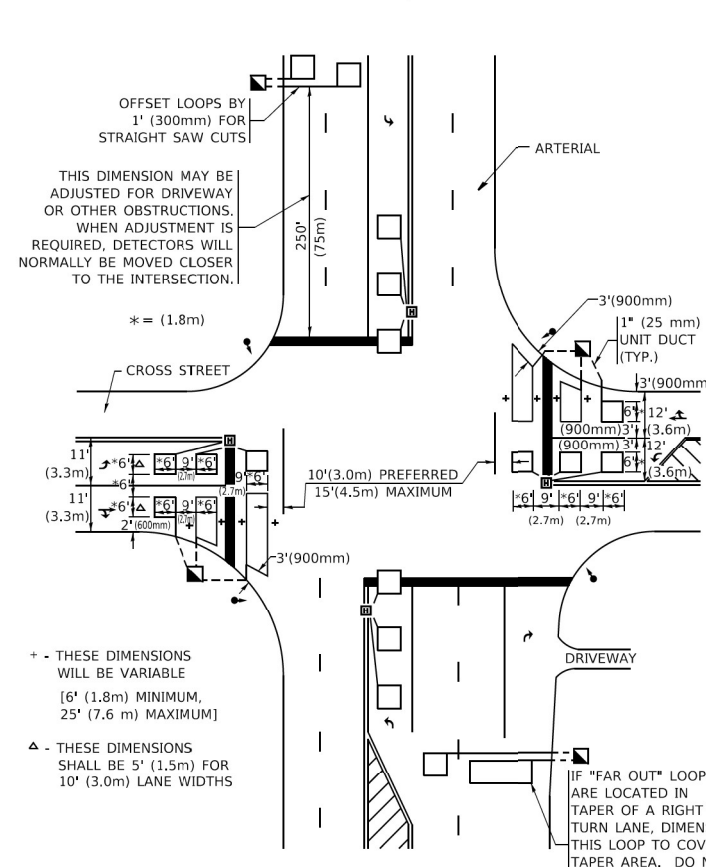
THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

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



**DETAIL 1**  
N.T.S.

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



**DETAIL 2**  
N.T.S.

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

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

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PLOT DATE = 3/4/2019	CHECKED - R.K.F.	REVISED -
	DATE -	REVISED -

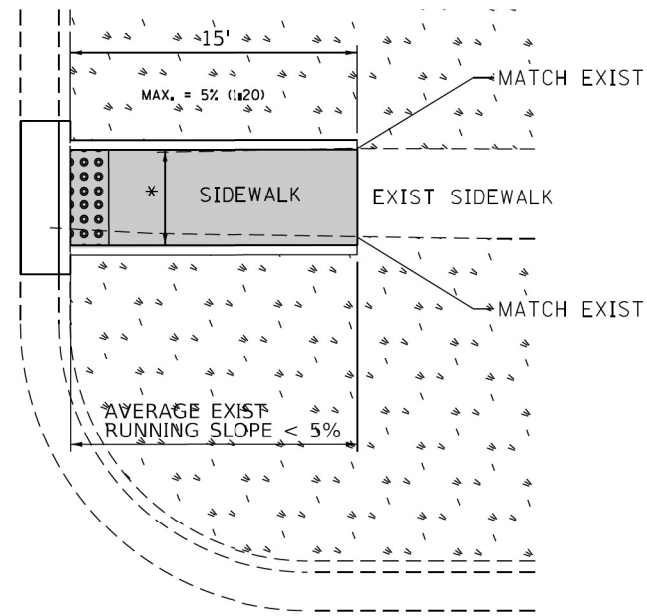
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TS-07		CONTRACT NO. 62H69		
ILLINOIS FED. AID PROJECT				

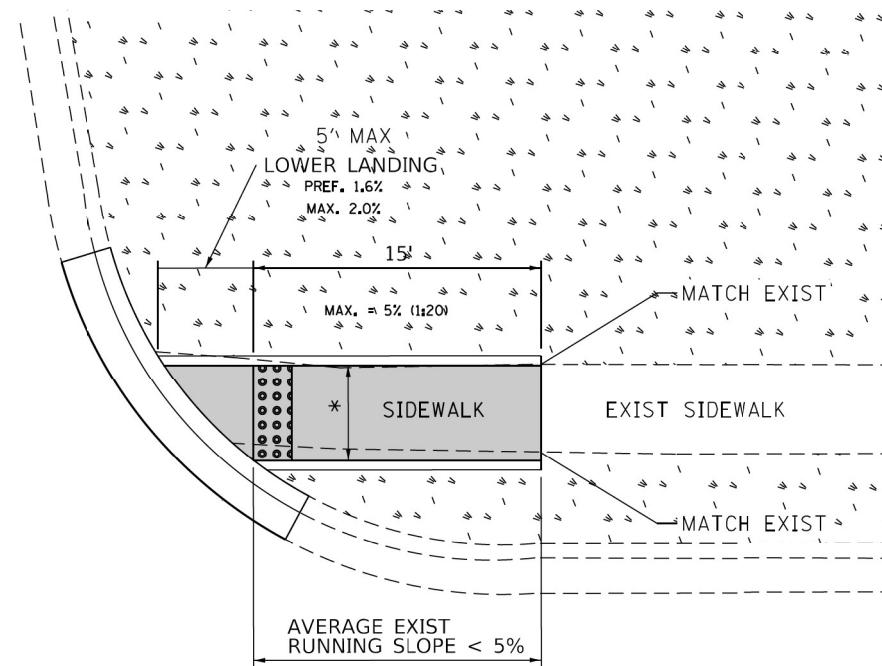
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# ADA DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS W/ EXIST. 5% OR LESS RUN. SLOPE

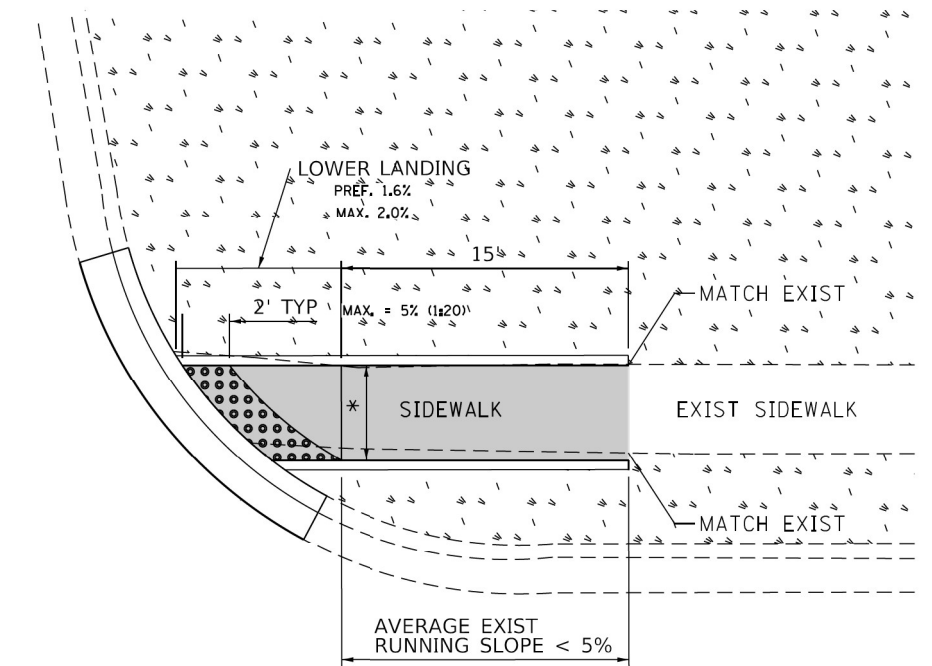
PD-01A



PD-01B



PD-01C



- DESIGNER NOTES:**
- 1) ALL CROSS SLOPES ARE PREFERRED 1.6% (1:64), MAXIMUM 2% (1:50).
  - 2) SIDEWALK REALIGNMENT WILL REQUIRE DETAILED DESIGN.
  - 3) AREAS SURROUNDED BY PCC/ASPHALT, BUILDINGS, OR ARE NEAR TO DRIVEWAYS, REALIGNED SIDEWALK, UTILITY AND SIGNAL POLES, OR WHEN PRIVATE SIDEWALK TIES IN, WILL REQUIRE DETAILED SURVEY AND DESIGN.
  - 4) ALL BRICK CORNERS WILL REQUIRE SUPERVISOR APPROVAL BEFORE USING PROJECT DETAILS

**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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	PLOT DATE = 12/17/2019	DATE -	REVISED -							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	S	SP	FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F		
WOOD POLE			INTERSECTION ITEM	I	IP	GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE		
GUY WIRE			REMOVE ITEM		R			
SIGNAL HEAD			RELOCATE ITEM		RL			
SIGNAL HEAD WITH BACKPLATE			ABANDON ITEM		A			
SIGNAL HEAD OPTICALLY PROGRAMMED			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF			
FLASHER INSTALLATION -(FS) SOLAR POWERED	 	 	MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF			
PEDESTRIAN SIGNAL HEAD			SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF			
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) CAMERA			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**

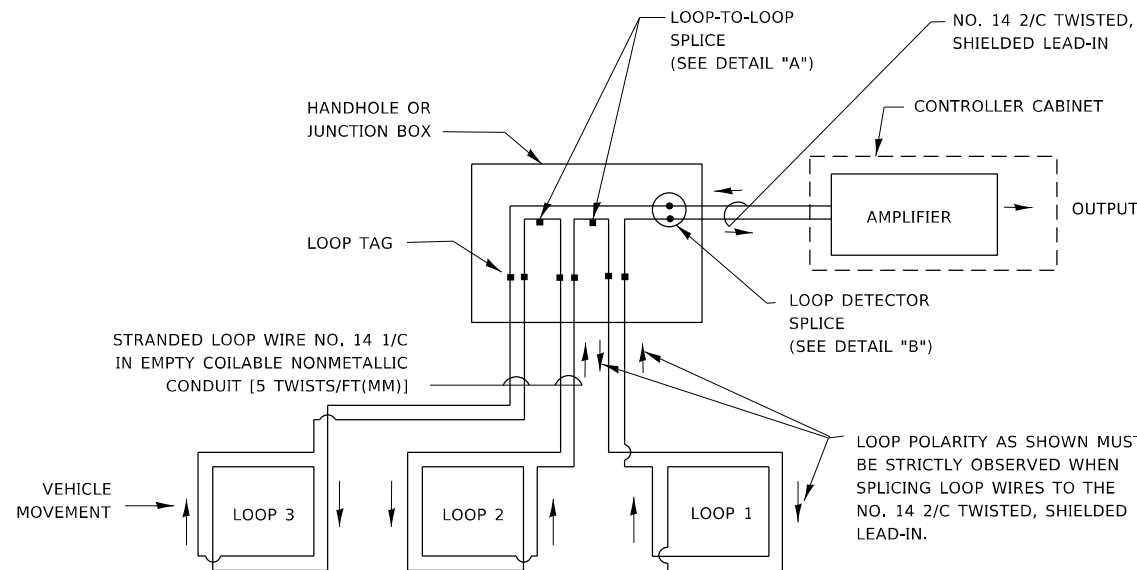
**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE    SHEET 1 OF 7 SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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<b>TS-05</b>		CONTRACT NO. 62H69		
ILLINOIS FED. AID PROJECT				

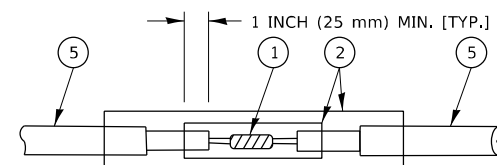
**LOOP DETECTOR NOTES**

1. 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.
2. 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.
3. 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.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES 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.
6. 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.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

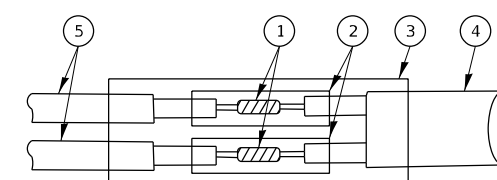


**DETECTOR LOOP WIRING SCHEMATIC**

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



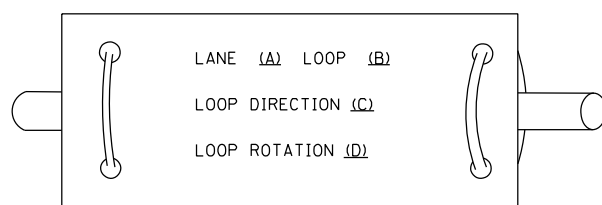
DETAIL "A"  
LOOP-TO-LOOP SPLICE



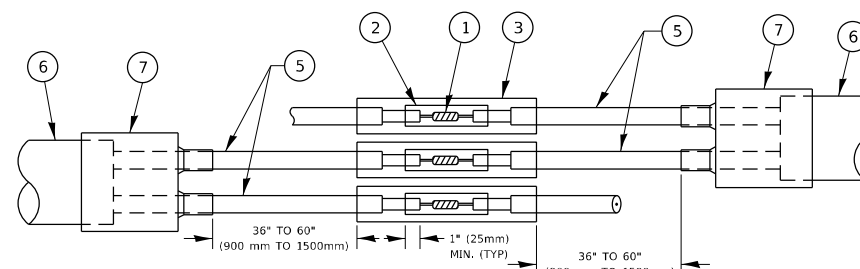
DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**TYPE I LOOP**

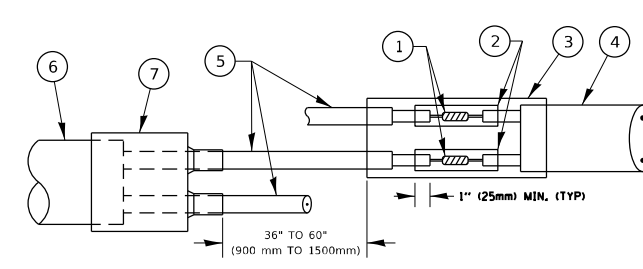
**LOOP LEAD-IN CABLE TAG**



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



DETAIL "A"  
LOOP-TO-LOOP SPLICE



DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**PREFORMED LOOP**

**LOOP DETECTOR SPLICE**

- ① WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- ② WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- ③ WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- ④ NO. 14 2/C TWISTED, SHIELDED CABLE.
- ⑤ LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE. PREFORMED LOOP
- ⑥ XL POLYOLEFIN 2 CONDUCTOR
- ⑦ BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

TS SHT NO. 2

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

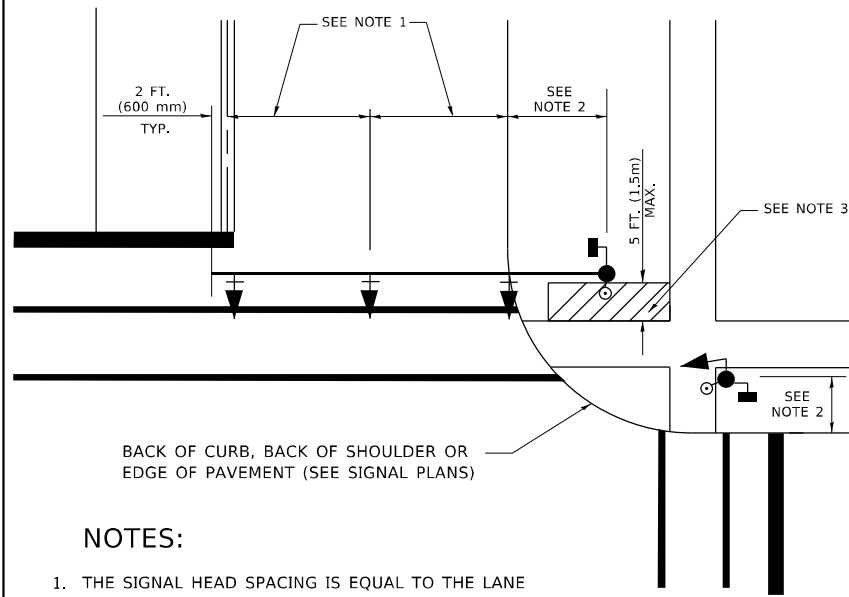
**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2018-136-R5-SW	LAKE	66	48
<b>TS-05</b>		CONTRACT NO. 62H69		
ILLINOIS		FED. AID PROJECT		

**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST**

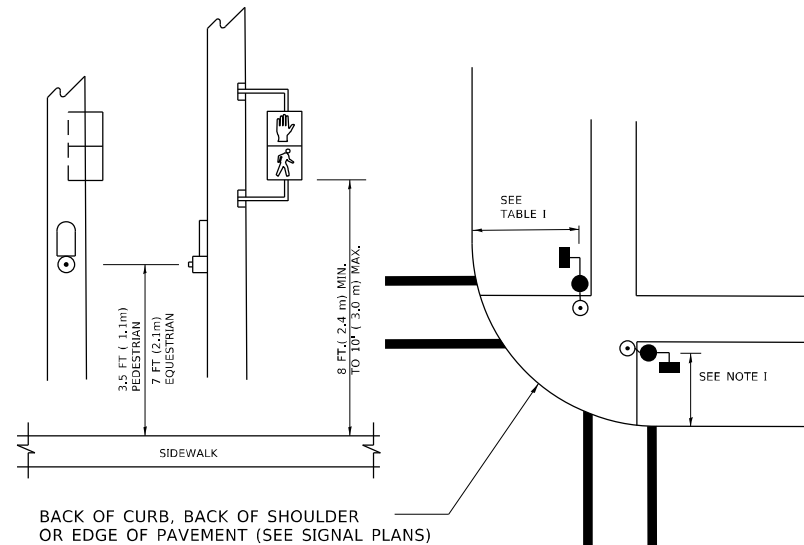
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



**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."

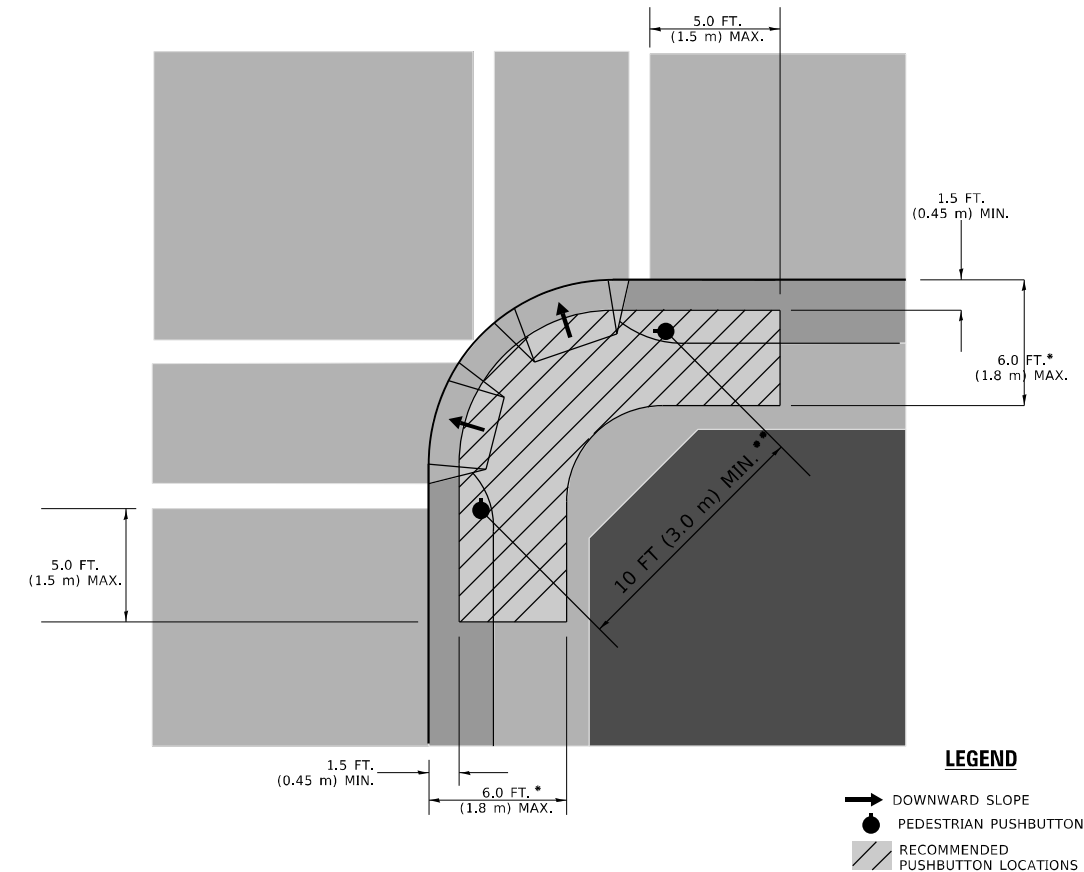
**PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST**



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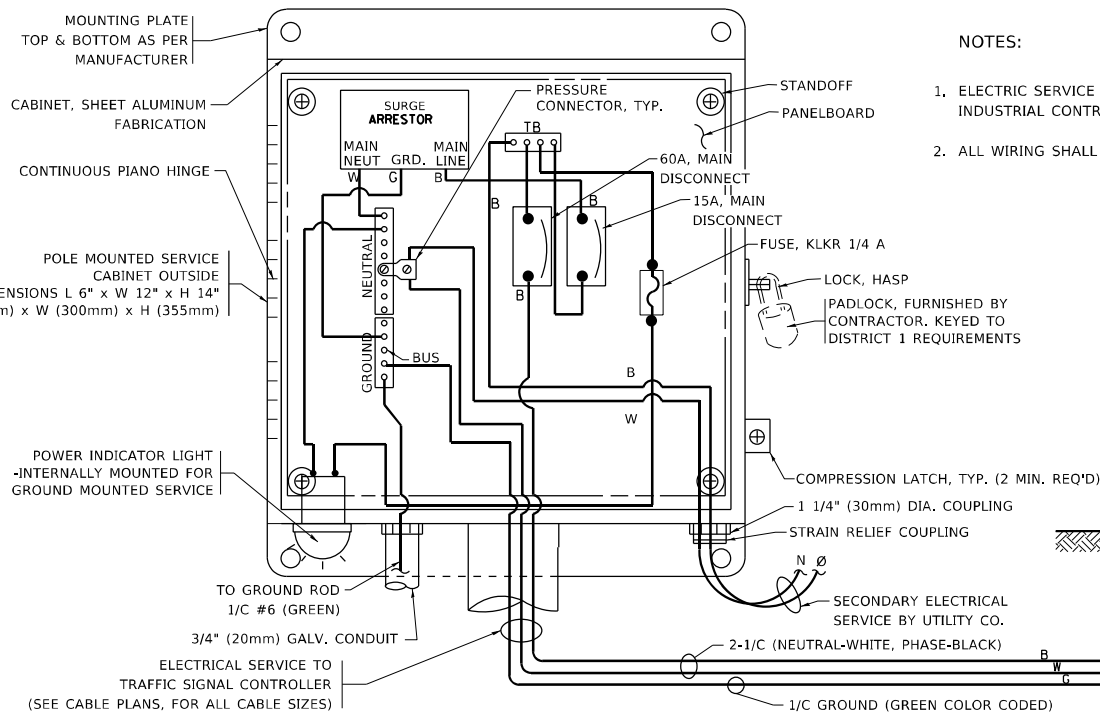
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

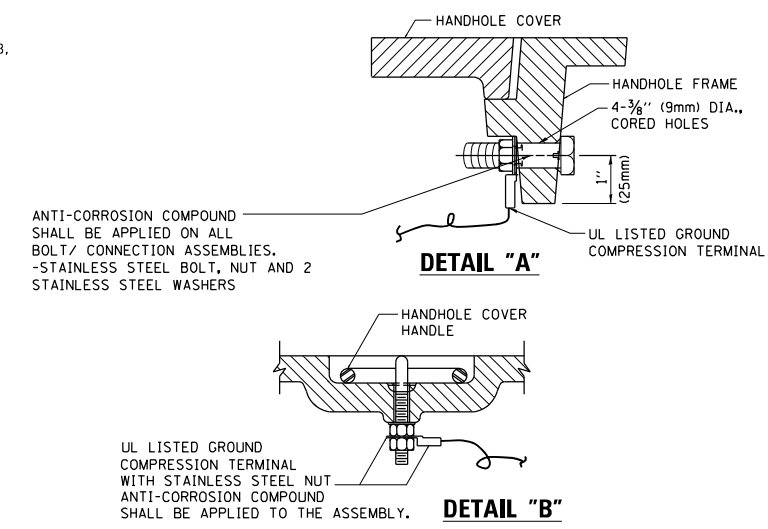
**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2018-136-R5-SW	LAKE	66	49
TS-05		CONTRACT NO. 62H69		
ILLINOIS FED. AID PROJECT				

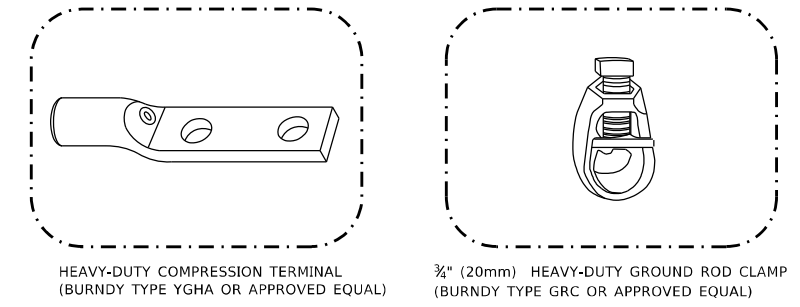


**ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)**  
**SERVICE INSTALLATION POLE MOUNT (SHOWN)**  
 (NOT TO SCALE)



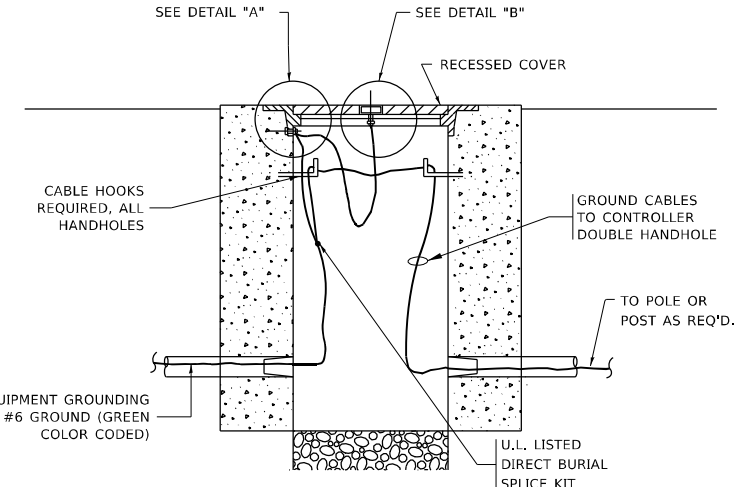
**NOTES:**  
**GROUNDING SYSTEM**

- 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.

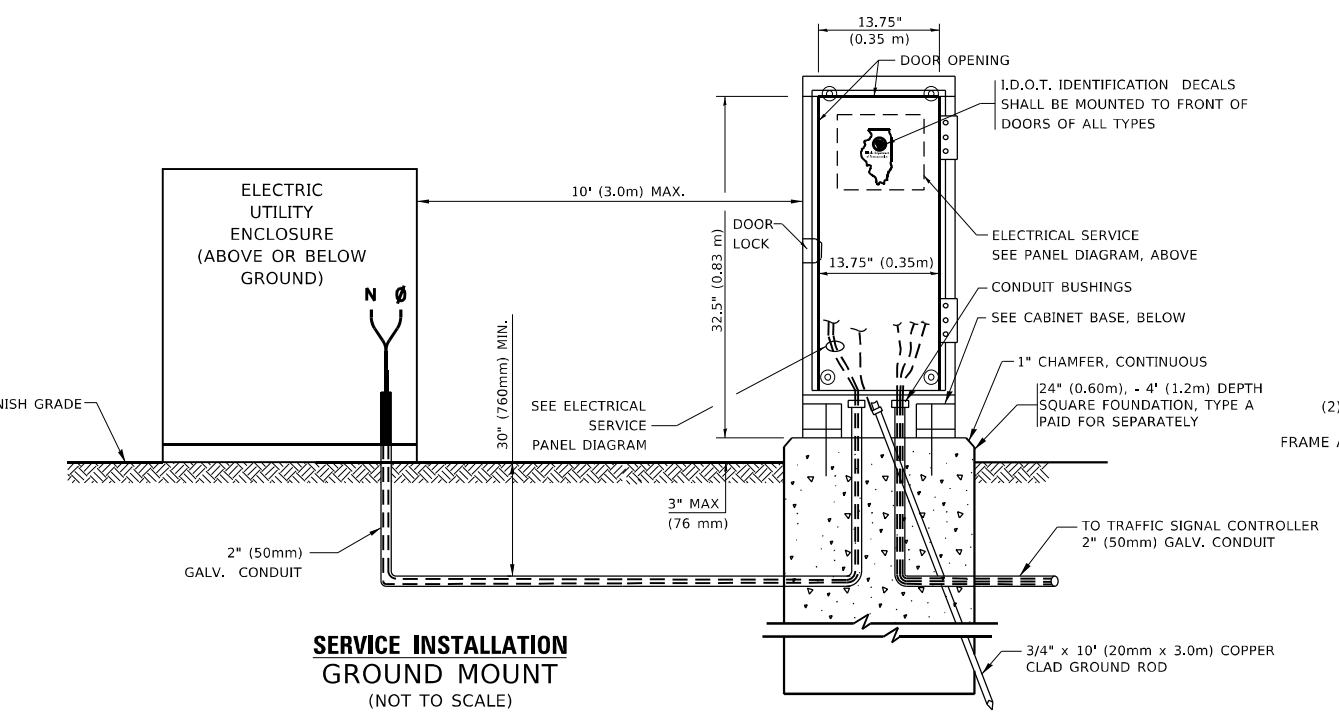
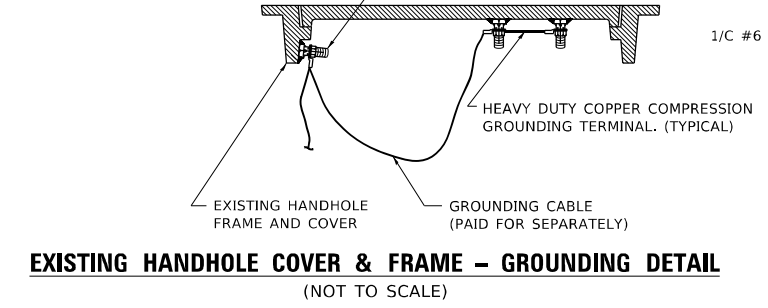


**NOTES:**

- 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.

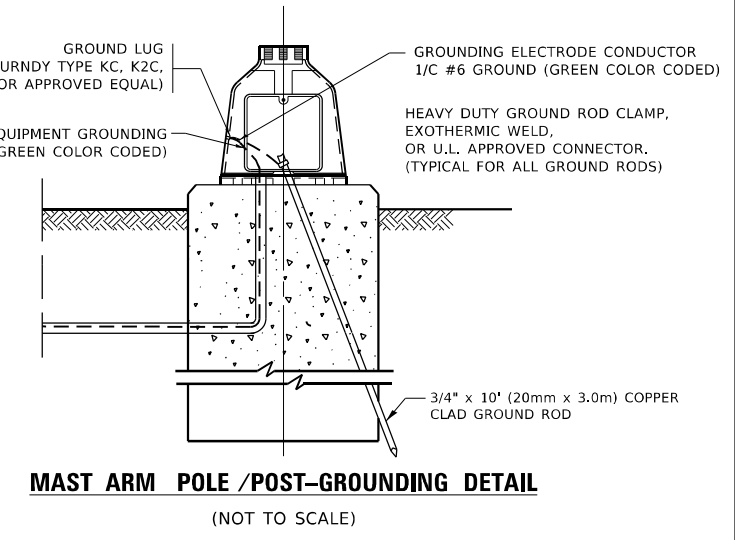
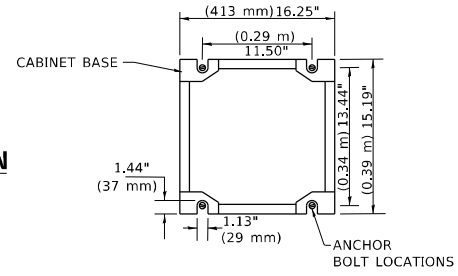


(2) 1/2" x 1 1/4" STAINLESS STEEL BOLT WITH SPLIT LOCK WASHER AND NYLON INSERT LOCKOUT WELDED TO FRAME AND TO COVER. (TYPICAL). ANTI-CORROSION COMPOUND SHALL BE APPLIED TO EACH ASSEMBLY.



**SERVICE INSTALLATION GROUND MOUNT**  
 (NOT TO SCALE)

**CABINET – BASE BOLT PATTERN**  
 (NOT TO SCALE)



TS SHT NO. 4

MODEL: Defaul... FILE NAME: SWIPDesign\DB11... hours: Design\621669... BureauID:621669... SurfButtons\_T501.dgn

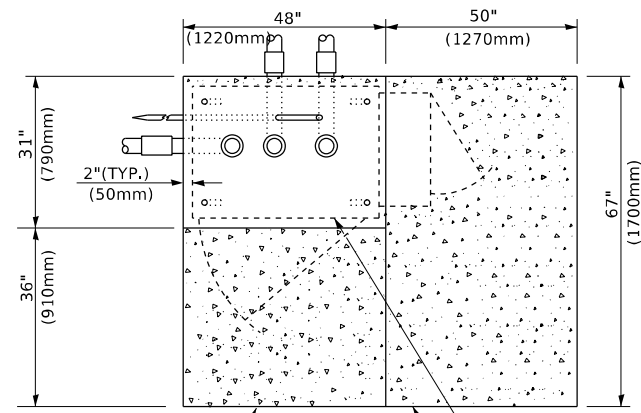
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

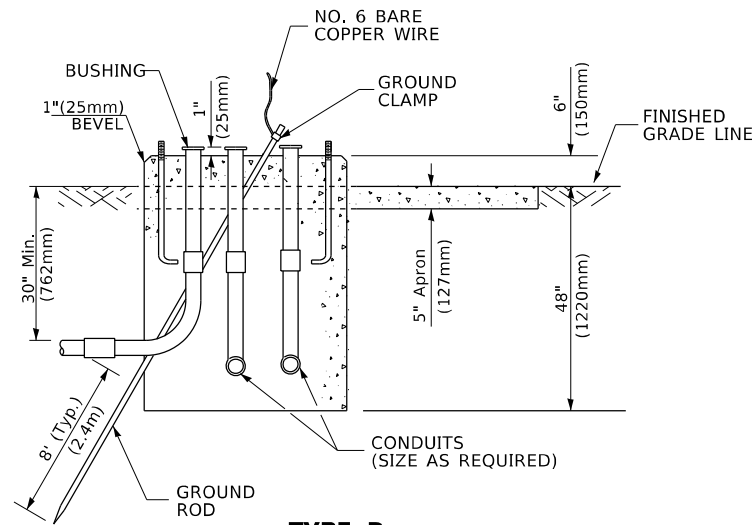
<b>DISTRICT ONE</b>			
<b>STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>			
SCALE: NONE	SHEET 4	OF 7 SHEETS	STA. TO STA.

F.A.P. RTE. 352	SECTION 2018-136-R5-SW	COUNTY LAKE	TOTAL SHEETS 66	SHEET NO. 50
<b>TS-05</b>		CONTRACT NO. 62H69		
ILLINOIS FED. AID PROJECT				

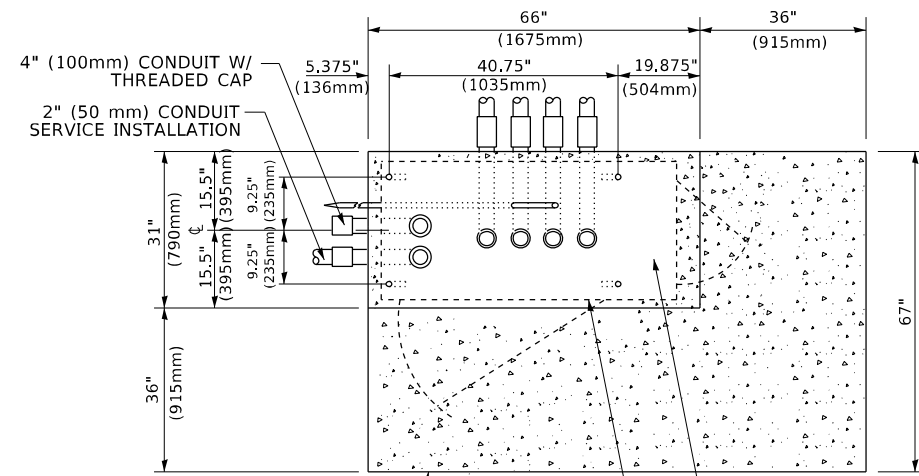




**TOP VIEW**

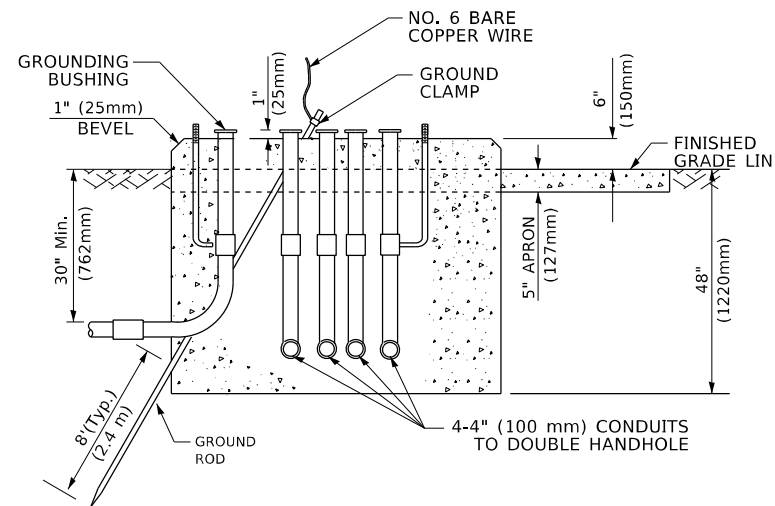


**TYPE D  
FOR GROUND MOUNTED  
CONTROLLER CABINET  
AND UPS BATTERY CABINET**

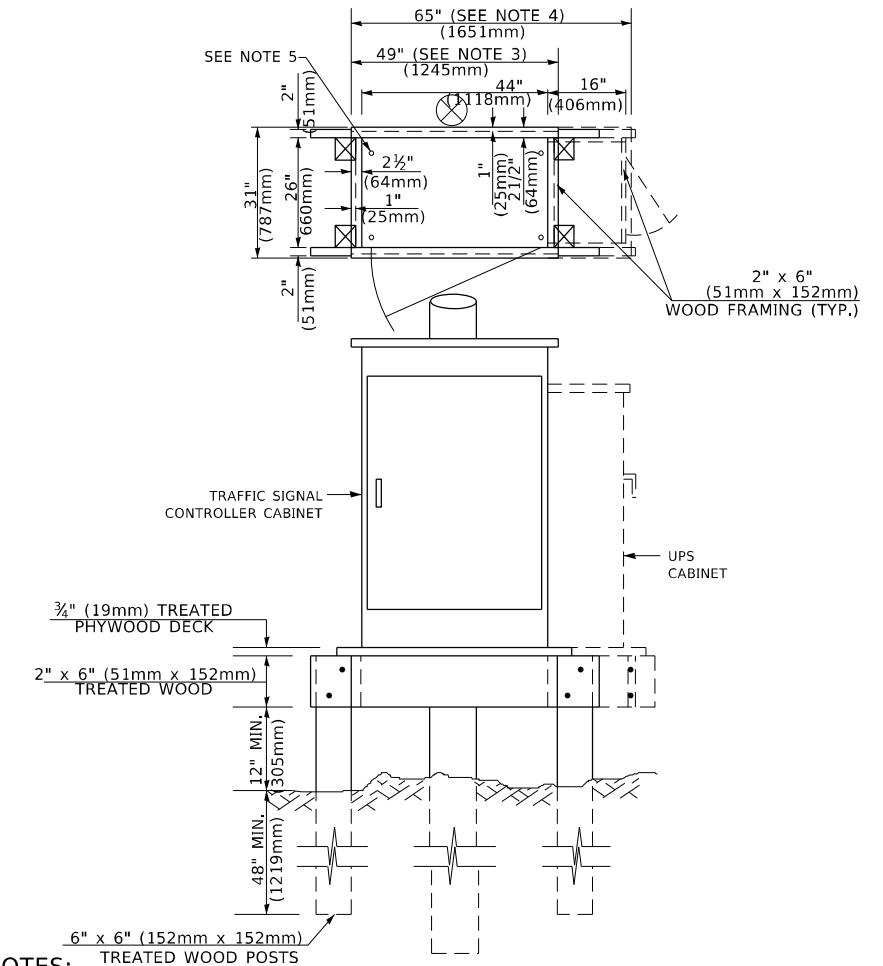


**TOP VIEW**

**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)
	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**

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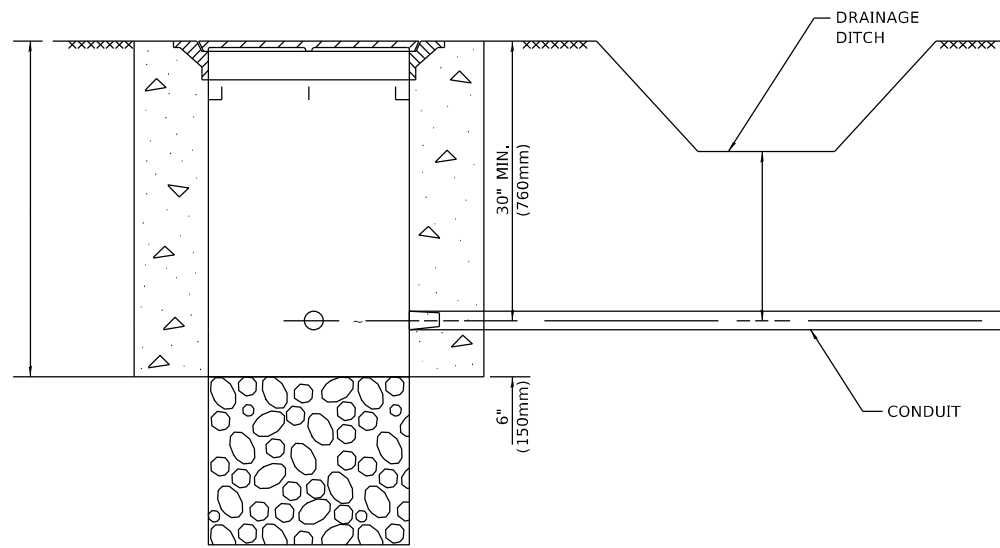
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 5 OF 7 SHEETS STA. TO STA.

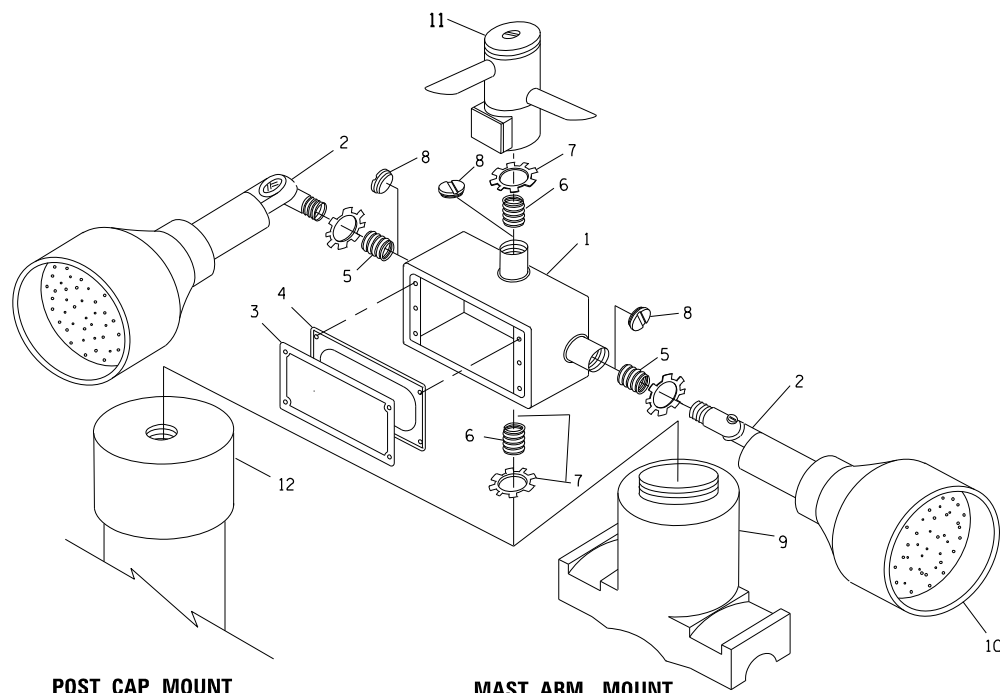
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2018-136-RS-SW	LAKE	66	51
<b>TS-05</b>			CONTRACT NO. 62H69	
ILLINOIS FED. AID PROJECT				



**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.

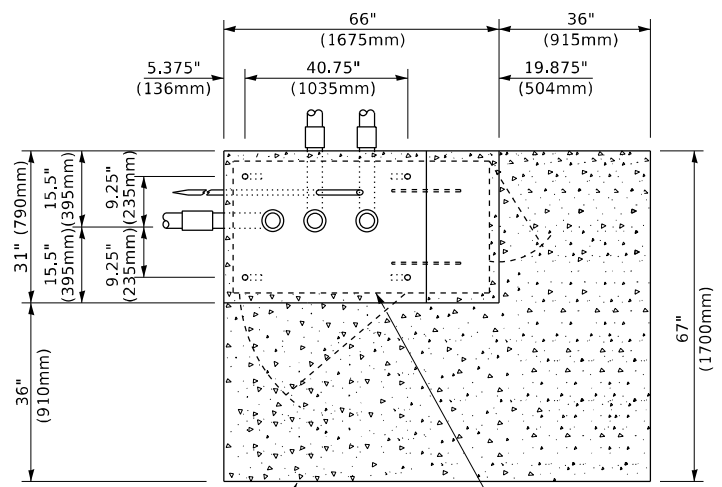
**HANDHOLE WITH MINIMUM CONDUIT DEPTH**  
(NOT TO SCALE)



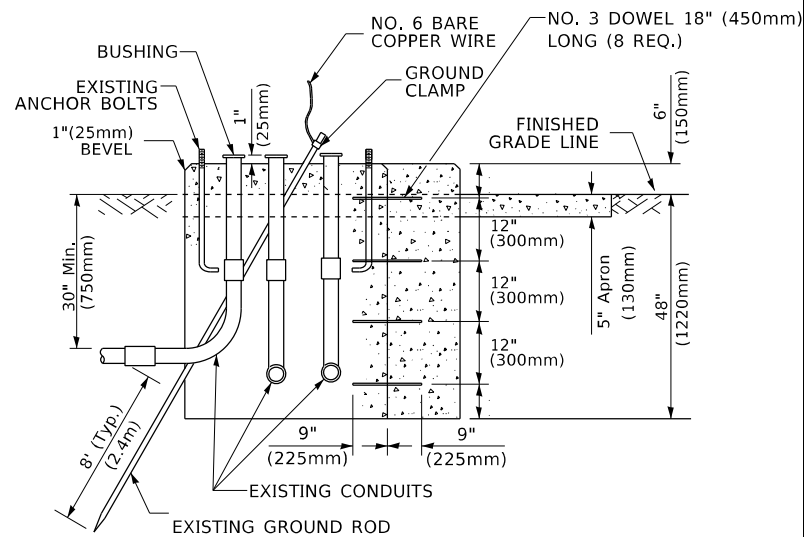
**POST CAP MOUNT**

**MAST ARM MOUNT**

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



**TOP VIEW**  
(NOT TO SCALE)

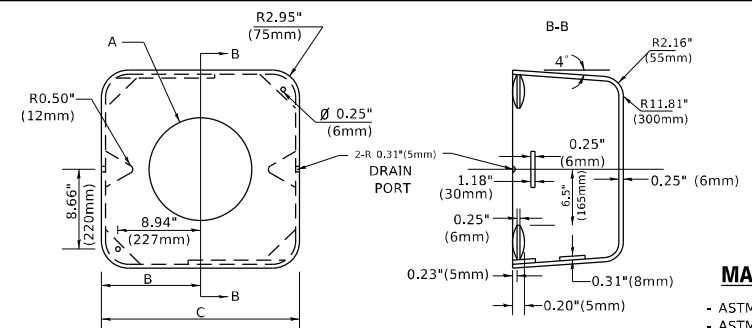


**MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION**  
(NOT TO SCALE)

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)

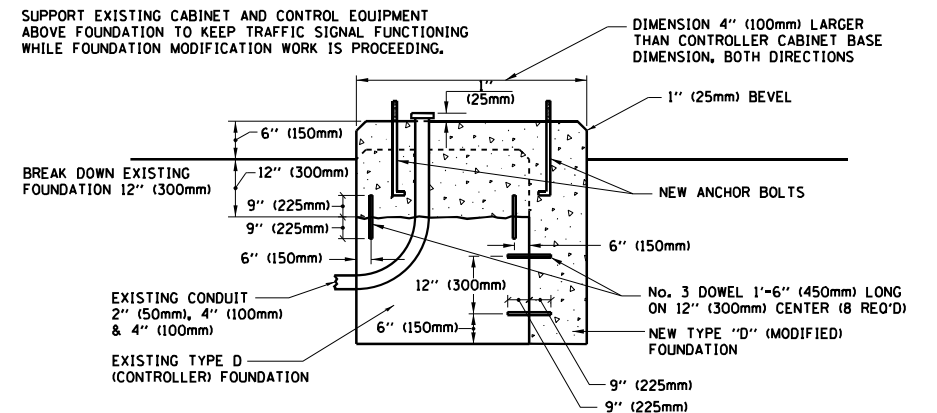
**SHROUD**

**NOTES:**

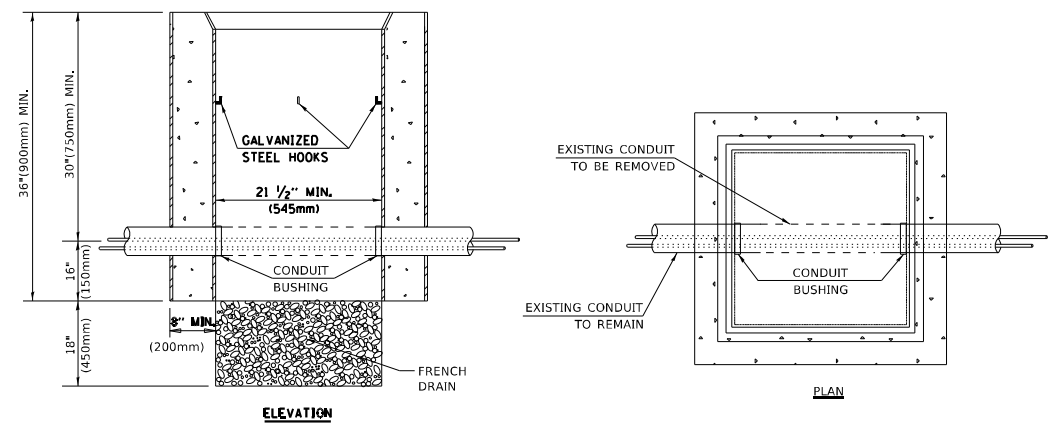
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

**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**



**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**

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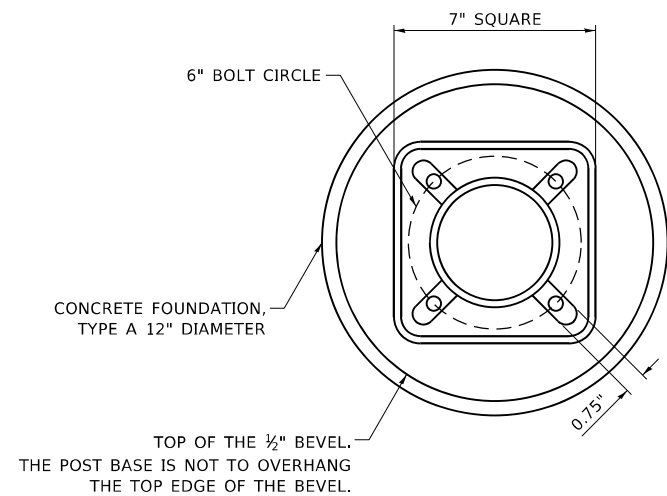
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

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

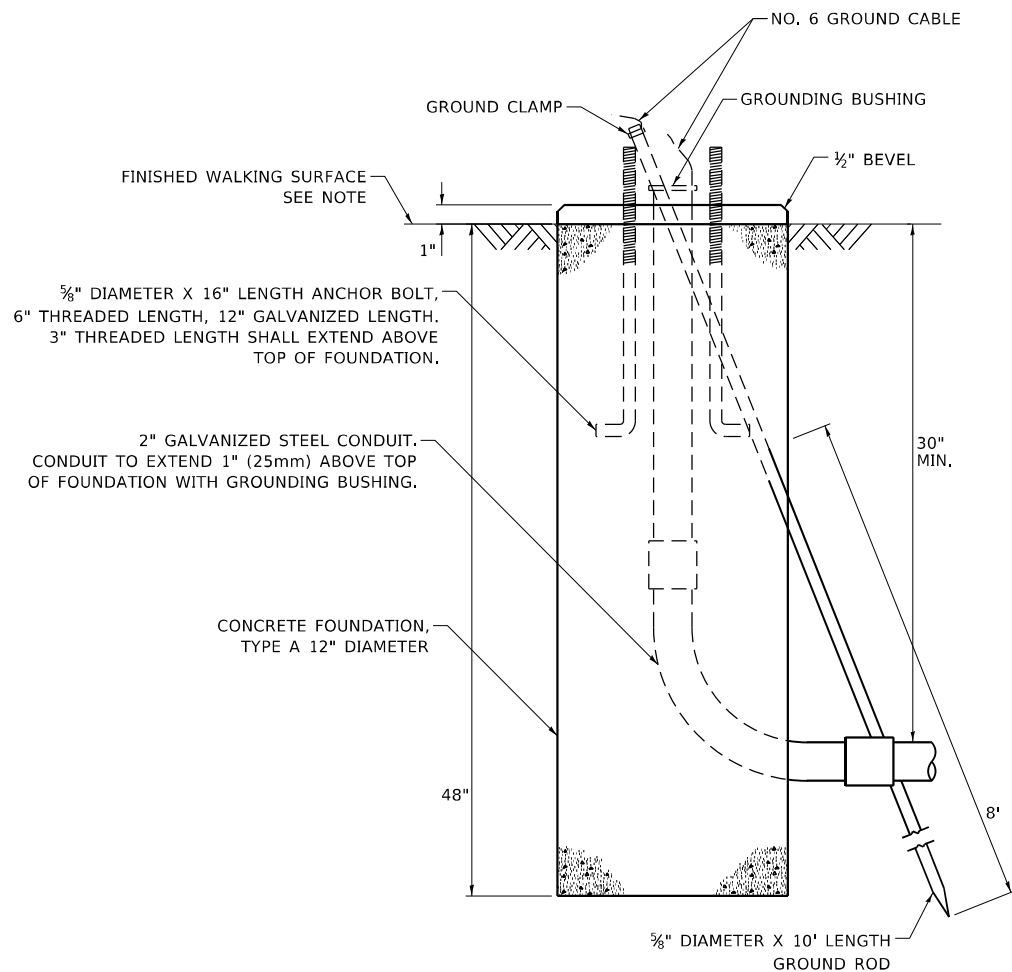
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352	2018-136-R5-SW	LAKE	66	52
<b>TS-05</b>		CONTRACT NO. 62H69		
ILLINOIS FED. AID PROJECT				



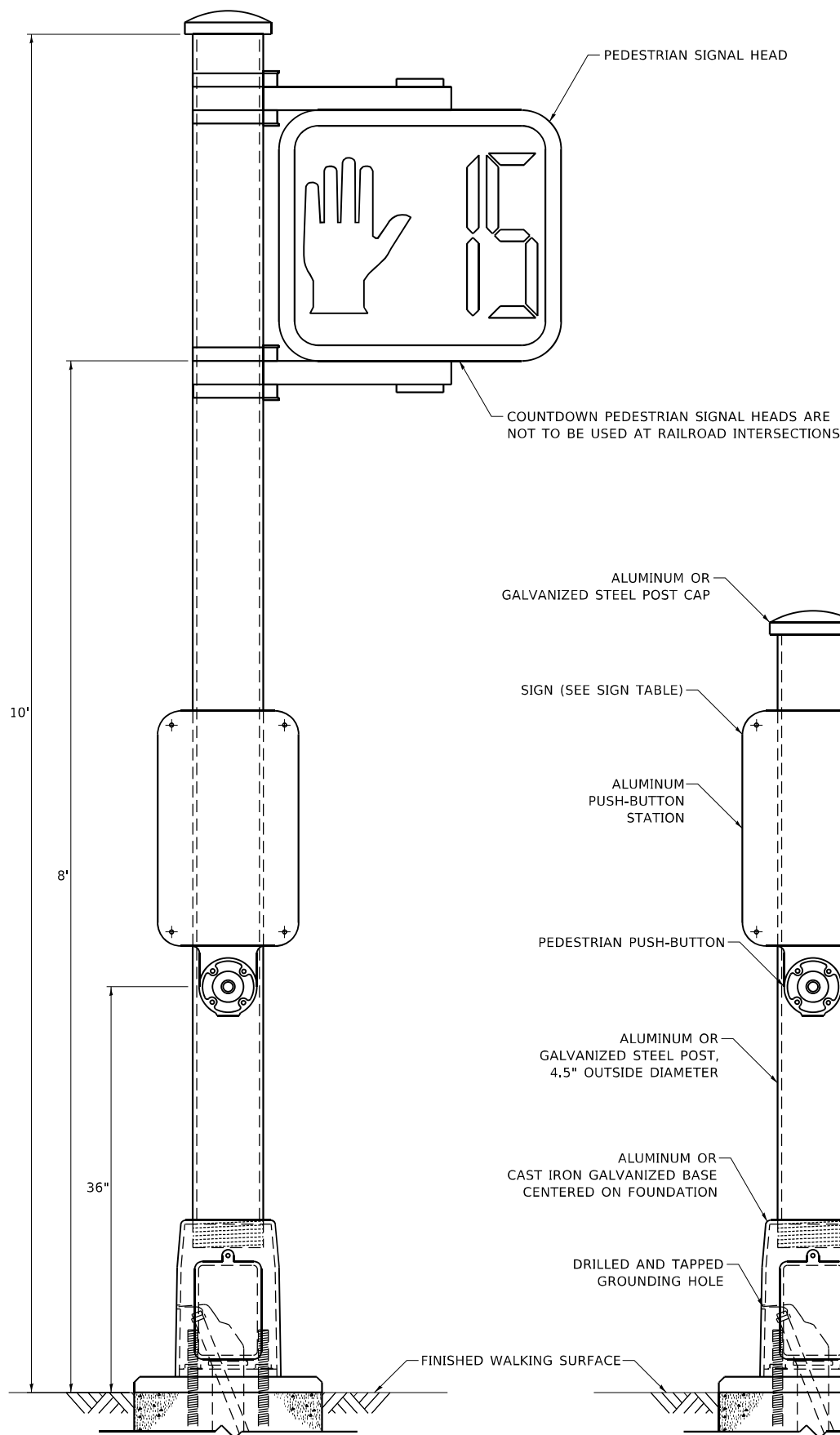
**BOLT PATTERN**

**NOTE:**

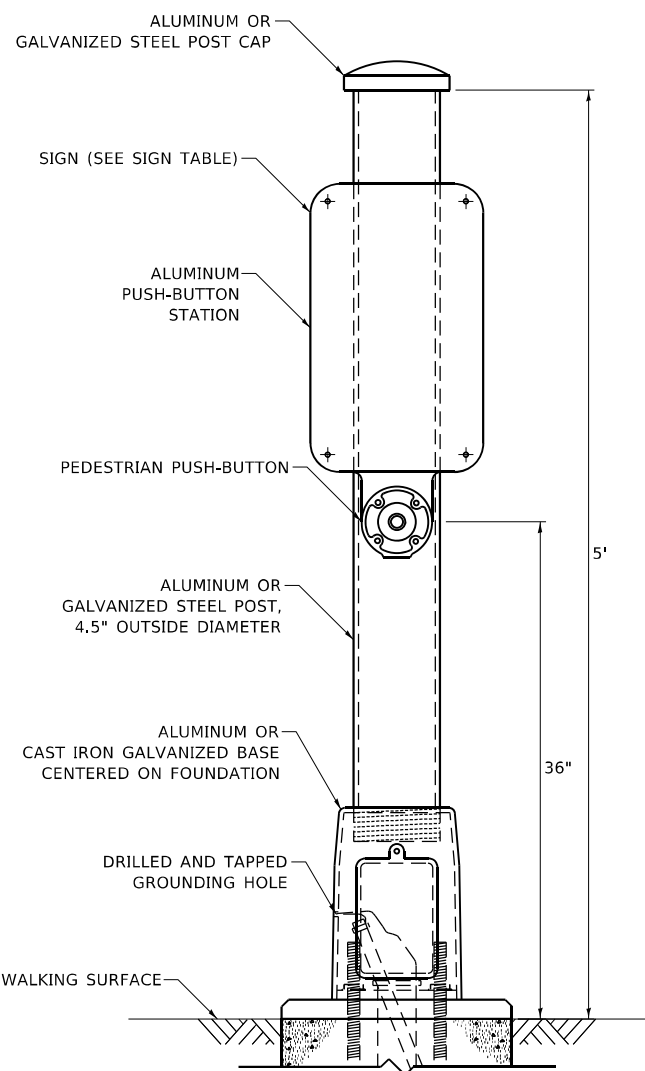
1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



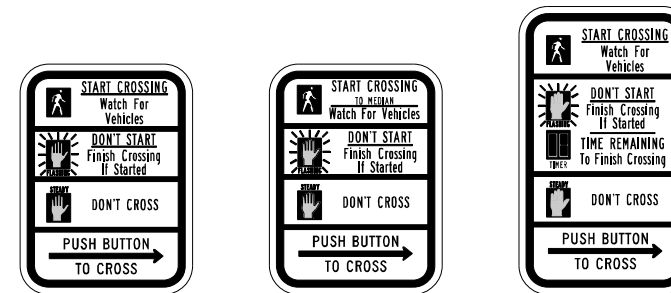
**CONCRETE FOUNDATION,  
TYPE A 12-INCH DIAMETER**



**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.

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

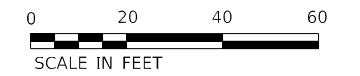
**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NTS SHEET NO. 7 OF 7 SHEETS STA. TO STA.

F.A.P. RTE. 352	SECTION 2018-136-R5-SW	COUNTY LAKE	TOTAL SHEETS 66	SHEET NO. 53
TS-05		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				



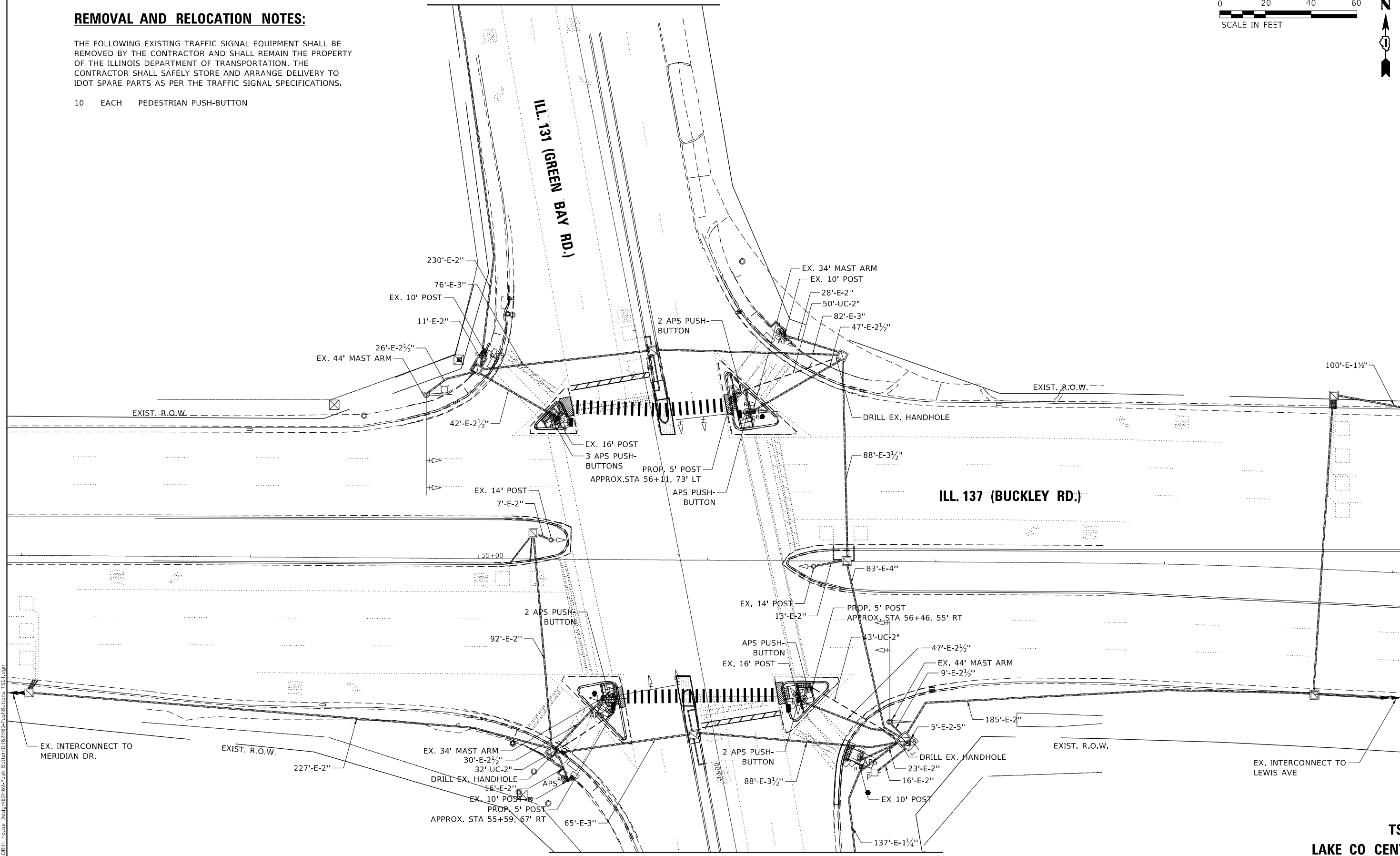
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MATCH LINE STA. 1+45



**REMOVAL AND RELOCATION NOTES:**

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE DELIVERY TO IDOT SPARE PARTS AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

10 EACH PEDESTRIAN PUSH-BUTTON



SEE TS SHEET NO. 10  
MATCH LINE STA. 1+67

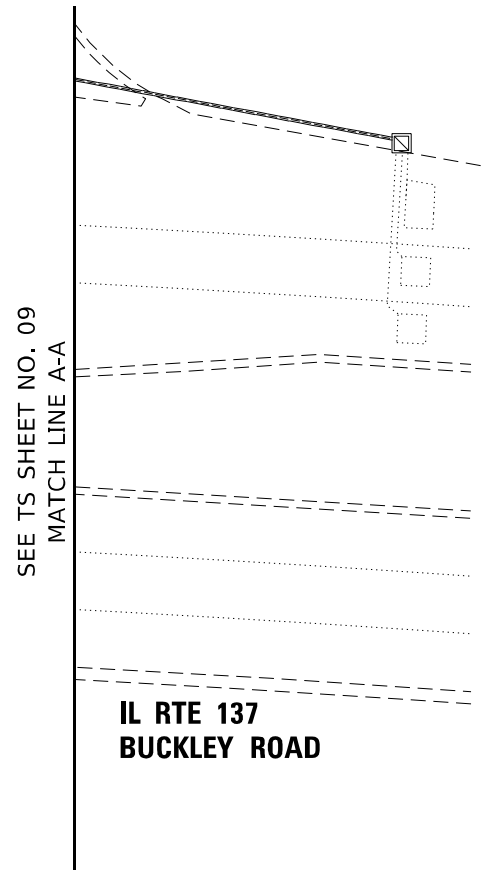
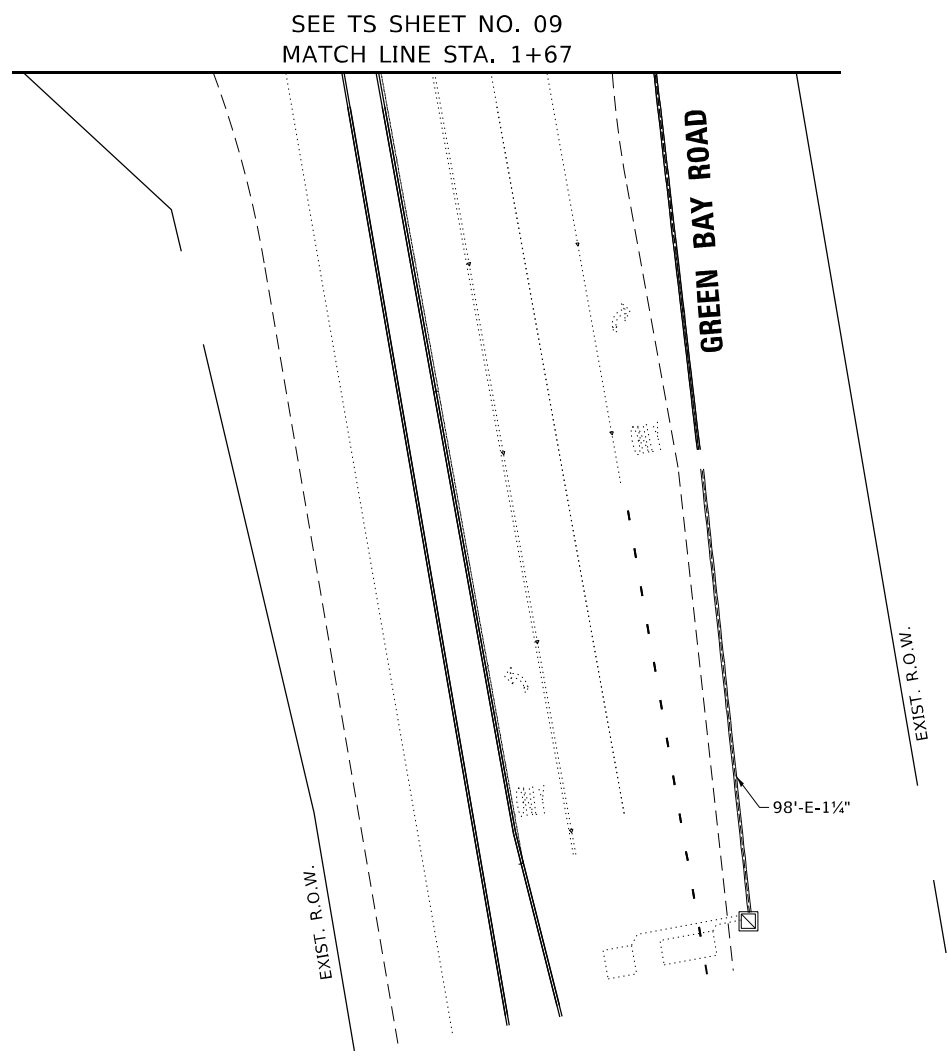
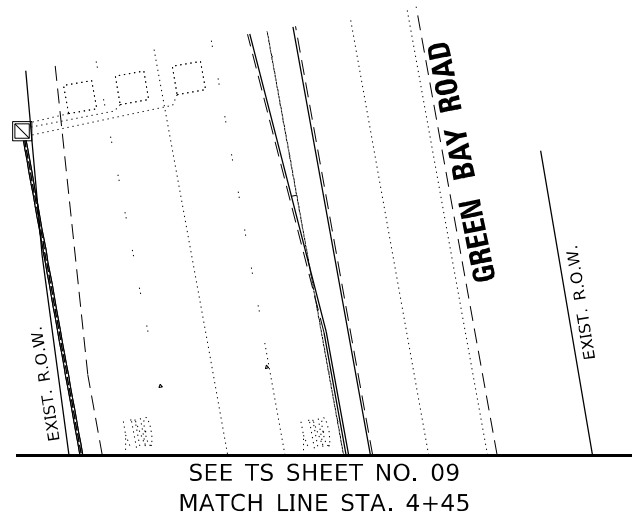
SEE TS SHEET NO. 10  
MATCH LINE A-A

TS 7015  
LAKE CO CENTRACS  
FORMER ECON 20

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	PLOT DATE = 1/27/2022	DATE = 12-09-2021	REVISED -			ILLINOIS FED. AID PROJECT				
						SCALE: SHEET OF SHEETS STA. TO STA.				

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TS 7015  
 LAKE CO CENTRACS  
 FORMER ECON 20

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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

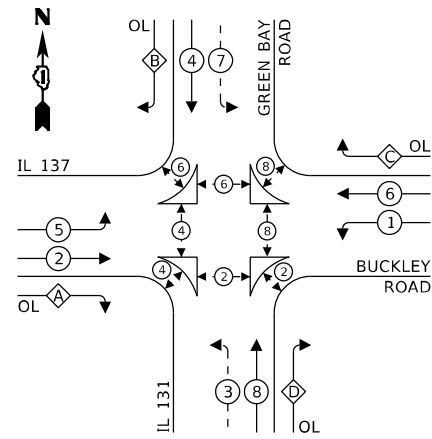
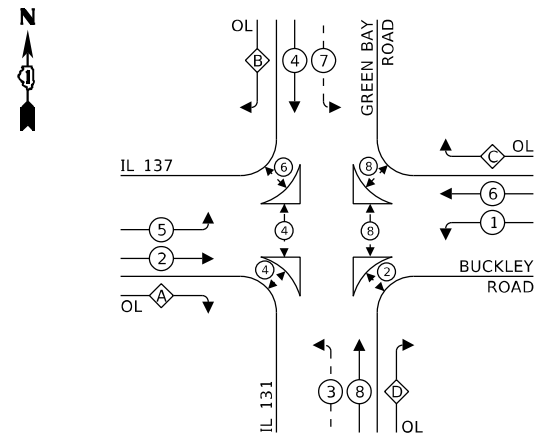
TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 2 OF 2)  
 IL-131 (GREEN BAY RD) AT IL-137 (BUCKLEY)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2018-136-R5-SW	LAKE	66	56
CONTRACT NO. 62H69				
ILLINOIS FED. AID PROJECT				

**EXISTING CONTROLLER SEQUENCE**

**PROPOSED CONTROLLER SEQUENCE**



**RIGHT TURN OVERLAP**

**PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	2	3
B	4	5
C	6	7
D	8	1

**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	125
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1500
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1050
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	145
DRILL EXISTING HANDHOLE	EACH	3
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT.	FOOT	3
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	16
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	12
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

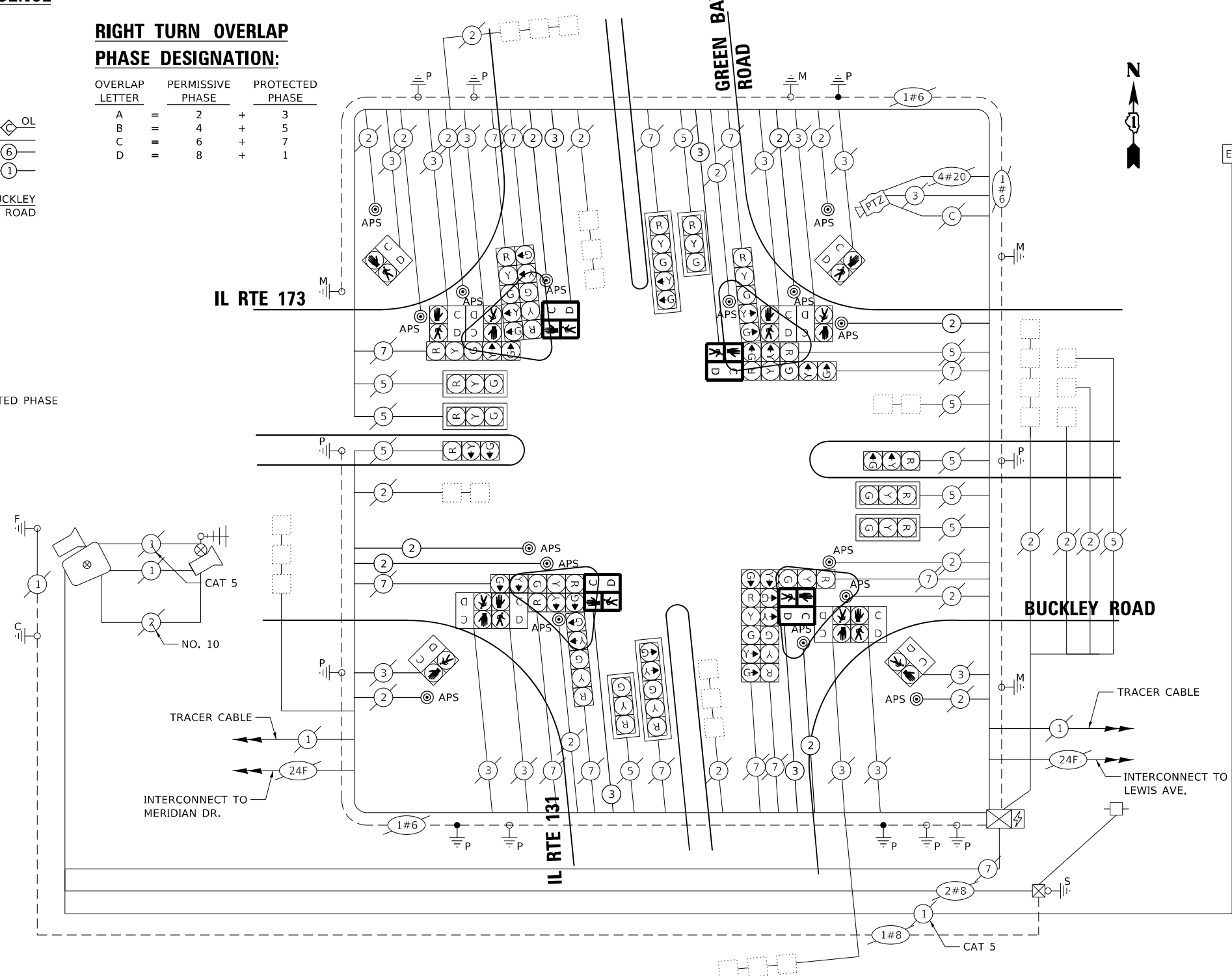
**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	22	11	50	121.0
(YELLOW)	22	20	5	22.0
(GREEN)	22	12	45	118.8
PERMISSIVE ARROW	24	10	10	24.0
PED. SIGNAL	16	20	100	320.0
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 =				880.8

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION  
201 WEST CENTRAL 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. 11

MODEL: D:\p\h\... FILE NAME: S:\p\Design\0811... hours: Design\62H69-Perf\Burotas\_TSO1.dgn

USER NAME = bennettidw	DESIGNED - DB	REVISED -
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PLOT DATE = 12/14/2021	CHECKED - KK	REVISED -
	DATE - 12-09-2021	REVISED -

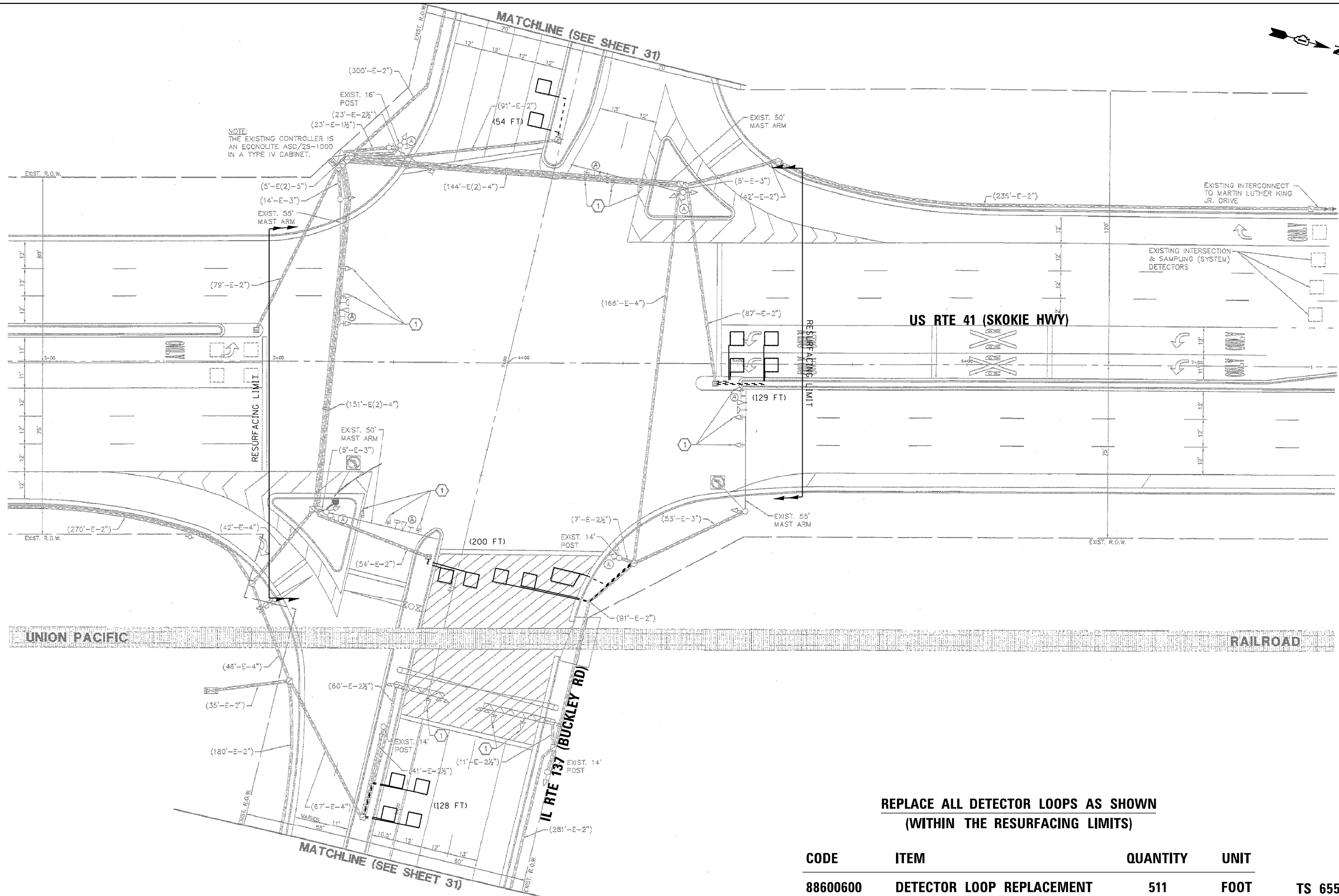
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE  
IL-131 (GREEN BAY RD) AT IL-137 (BUCKLEY)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 352	SECTION 2018-136-R5-SW	COUNTY LAKE	TOTAL SHEETS 66	SHEET NO. 57
CONTRACT NO. 62H69				
ILLINOIS FED. AID PROJECT				

TS 7015  
LAKE CO CENTRACS  
FORMER ECON 20



NOTE:  
THE EXISTING CONTROLLER IS  
AN ECONOLITE ASC/25-1000  
IN A TYPE IV CABINET.

**REPLACE ALL DETECTOR LOOPS AS SHOWN  
(WITHIN THE RESURFACING LIMITS)**

CODE	ITEM	QUANTITY	UNIT	
88600600	DETECTOR LOOP REPLACEMENT	511	FOOT	TS 6555

FILE NAME = 62H69 - US 41 @ IL 137.dgn  
Default

USER NAME = vargasa  
PLOT SCALE = 40.0000' / in.  
PLOT DATE = 10/18/2021

DESIGNED - AV  
DRAWN - AV  
CHECKED - KK  
DATE - 10/18/2021

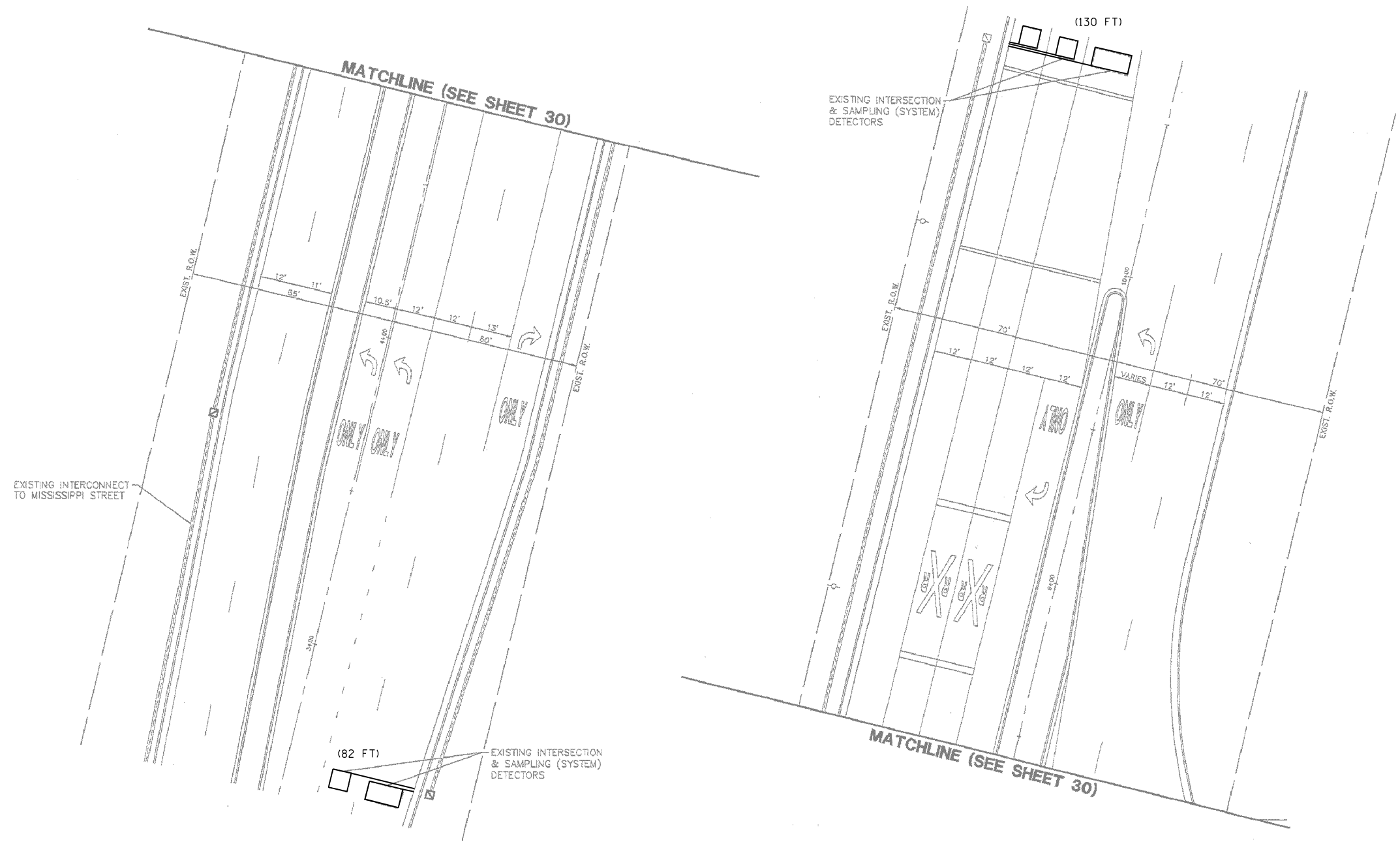
REVISED -  
REVISED -  
REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT PLAN  
IL RTE 137 (BUCKLEY RD) AT US RTE 41 (SKOKIE HWY)**  
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2018-136-R5-SW	LAKE	66	58
CONTRACT NO. 62H69				
ILLINOIS FED. AID PROJECT				





**REPLACE ALL DETECTOR LOOPS AS SHOWN  
(WITHIN THE RESURFACING LIMITS)**

CODE	ITEM	QUANTITY	UNIT	
88600600	DETECTOR LOOP REPLACEMENT	212	FOOT	TS 6555

FILE NAME = 62H69 - US 41 @ IL 137.dgn	USER NAME = vargasa	DESIGNED - AV	REVISED -
Default	PLOT SCALE = 40.0000' / in.	DRAWN - AV	REVISED -
	PLOT DATE = 10/18/2021	CHECKED - KK	REVISED -
		DATE - 10/18/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT PLAN  
OAKTON ST AT WAUKEGAN RD**

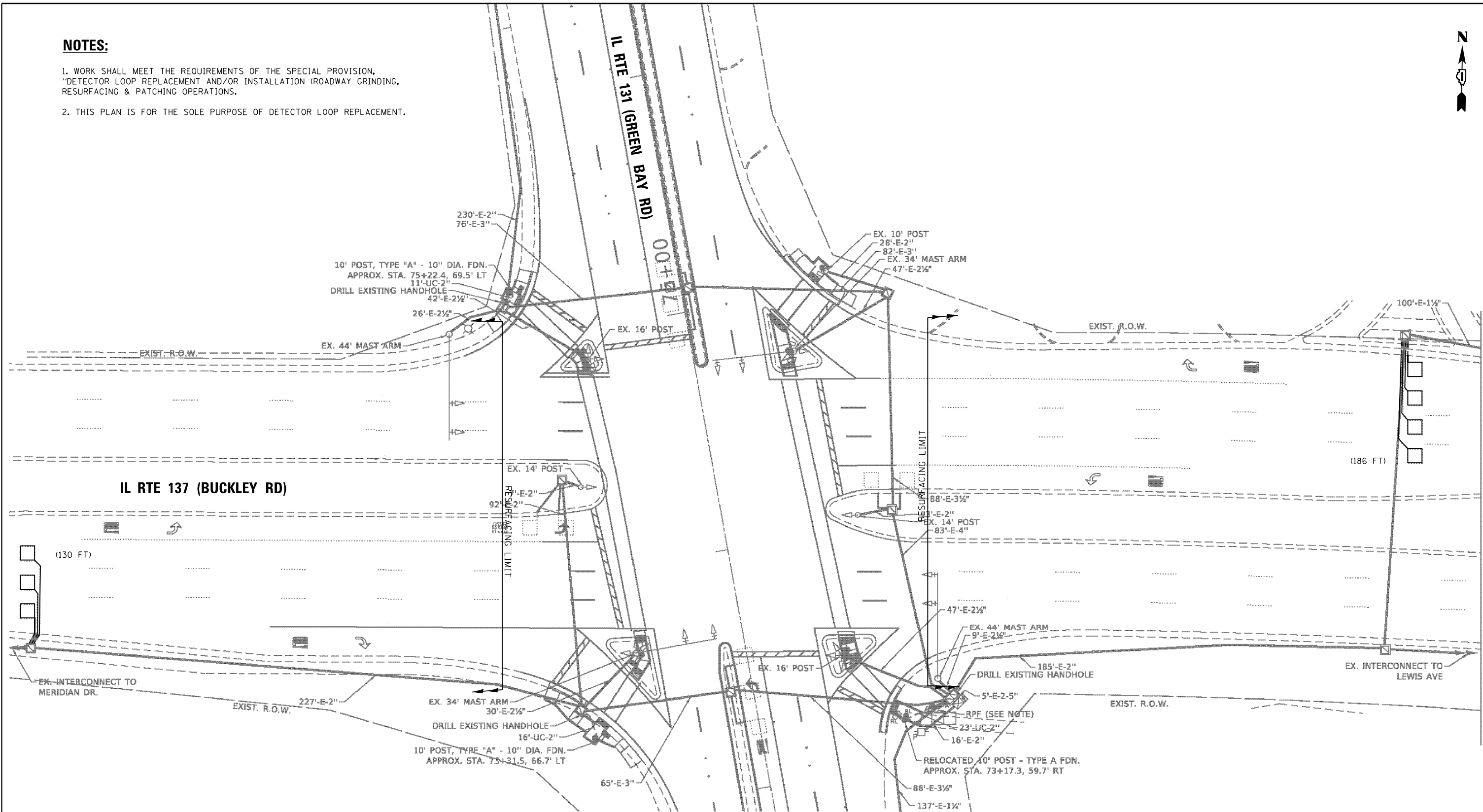
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 352	SECTION 2018-136-R5-SW	COUNTY LAKE	TOTAL SHEETS 66	SHEET NO. 59
CONTRACT NO. 62H69				ILLINOIS FED. AID PROJECT



**NOTES:**

1. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING & PATCHING OPERATIONS).
2. THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENT.



**REPLACE ALL DETECTOR LOOPS AS SHOWN  
(WITHIN THE RESURFACING LIMITS)**

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	316	FOOT

FILE NAME = 62H69 IL 137 Buckley Rd @ IL 131 Green Bay Rd.dgn	USER NAME = vargasa	DESIGNED - AV	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - KK	DATE - 10/19/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

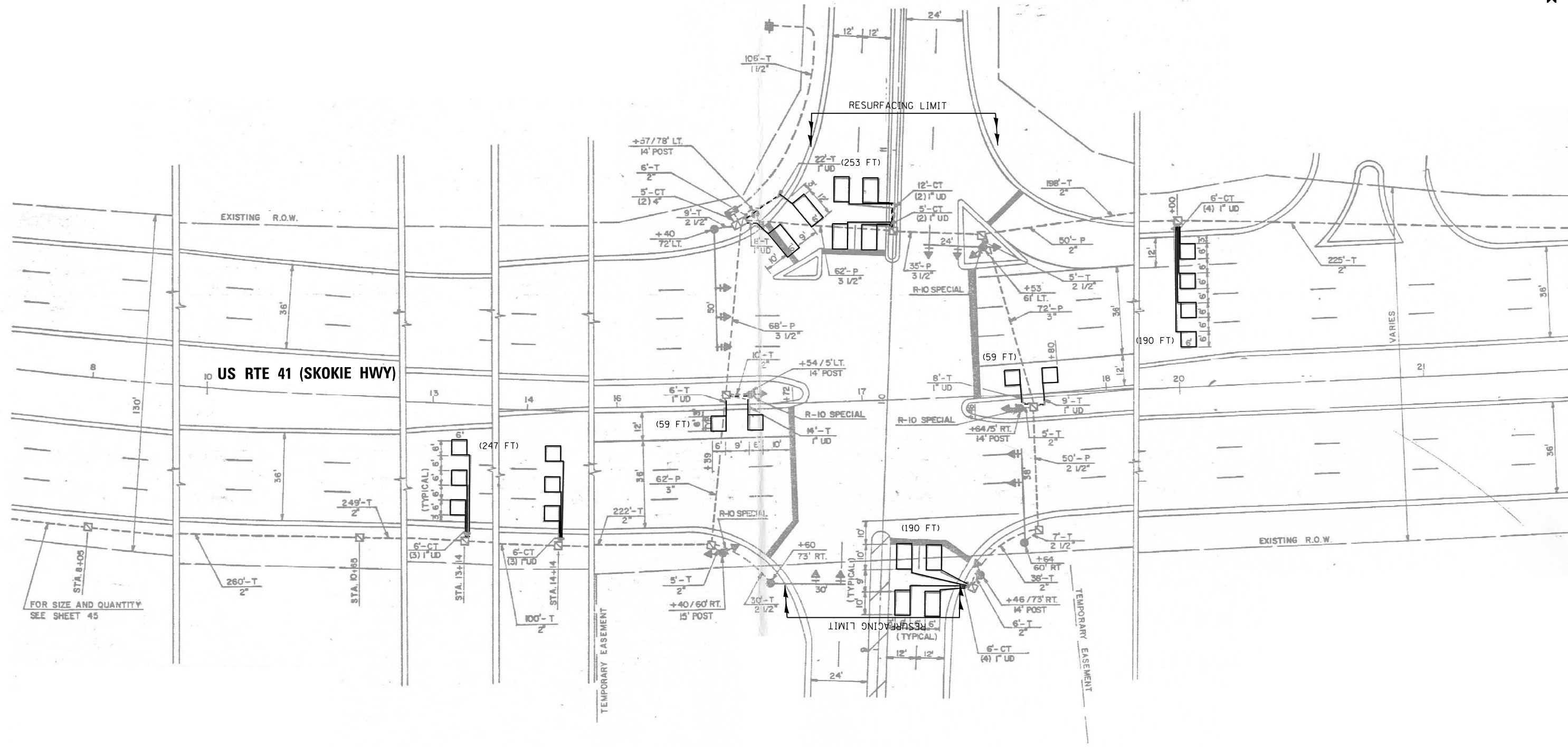
<b>DETECTOR LOOP REPLACEMENT PLAN</b>			
<b>IL RTE 137 (BUCKLEY RD) AT IL RTE 131 (GREEN BAY RD)</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE. 352	SECTION 2018-136-RS-SW	COUNTY LAKE	TOTAL SHEETS 66	SHEET NO. 61
CONTRACT NO. 62H69				
ILLINOIS FED. AID PROJECT				





**LEWIS AVE**



**REPLACE ALL DETECTOR LOOPS AS SHOWN  
(WITHIN THE RESURFACING LIMITS)**

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	998	FOOT

FILE NAME = 62H69 IL 137 Buckley Rd @ Lewis Ave.dgn	USER NAME = vargosa	DESIGNED - AV	REVISED -
		DRAWN - AV	REVISED -
		CHECKED - KK	REVISED -
		DATE - 10/18/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

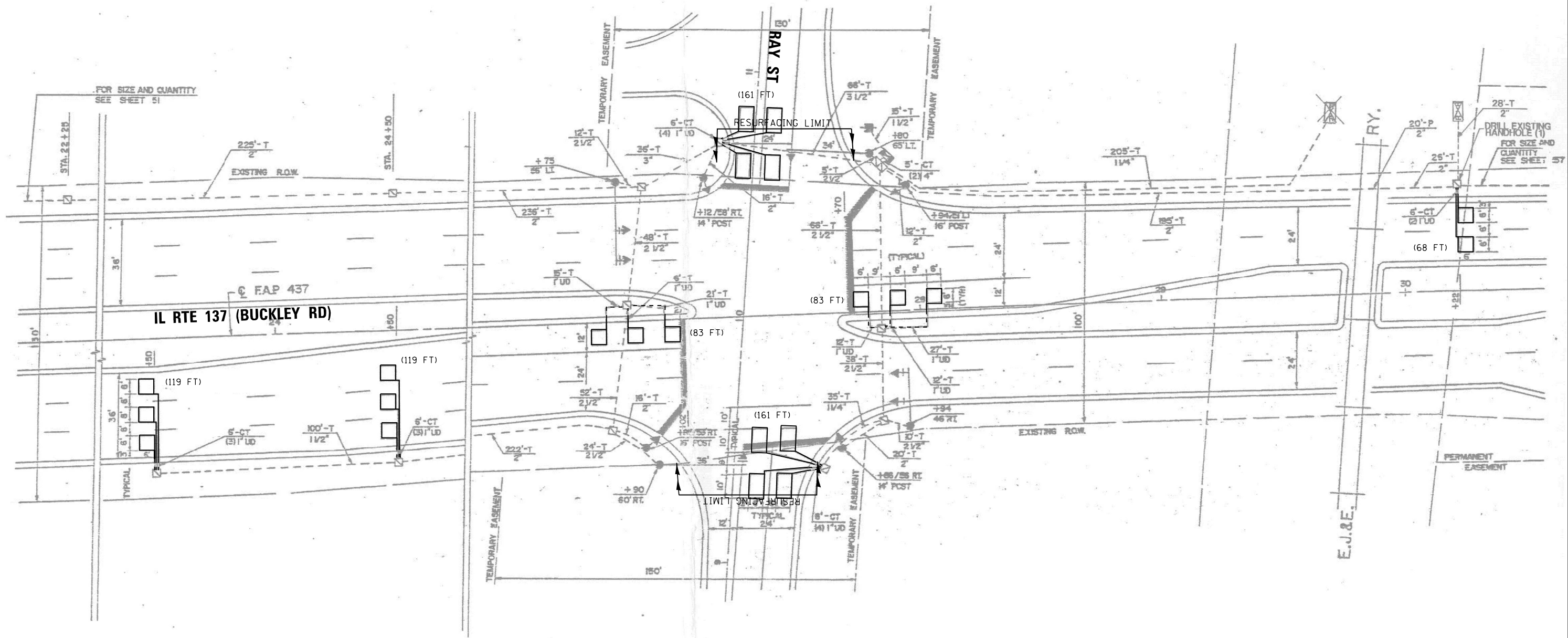
**DETECTOR LOOP REPLACEMENT PLAN  
IL RTE 137 (BUCKLEY RD) AT LEWIS AVE**

F.A.P. RTE. 352	SECTION 2018-136-R5-SW	COUNTY LAKE	TOTAL SHEETS 66	SHEET NO. 63
CONTRACT NO. 62H69				ILLINOIS FED. AID PROJECT

SCALE: SHEET OF SHEETS STA. TO STA.

**NOTES:**

1. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING & PATCHING OPERATIONS).
2. THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENT.



**REPLACE ALL DETECTOR LOOPS AS SHOWN  
(WITHIN THE RESURFACING LIMITS)**

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	794	FOOT

FILE NAME = 62H69 IL 137 Buckley Rd @ Ray St.dgn	USER NAME = vargosa	DESIGNED - AV	REVISED -
		DRAWN - AV	REVISED -
		CHECKED - KK	REVISED -
		DATE - 10/19/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT PLAN  
IL RTE 137 (BUCKLEY RD) AT RAY STREET**

F.A.P. RTE. 352	SECTION 2018-136-RS-SW	COUNTY LAKE	TOTAL SHEETS 66	SHEET NO. 64
CONTRACT NO. 62H69				
ILLINOIS FED. AID PROJECT				

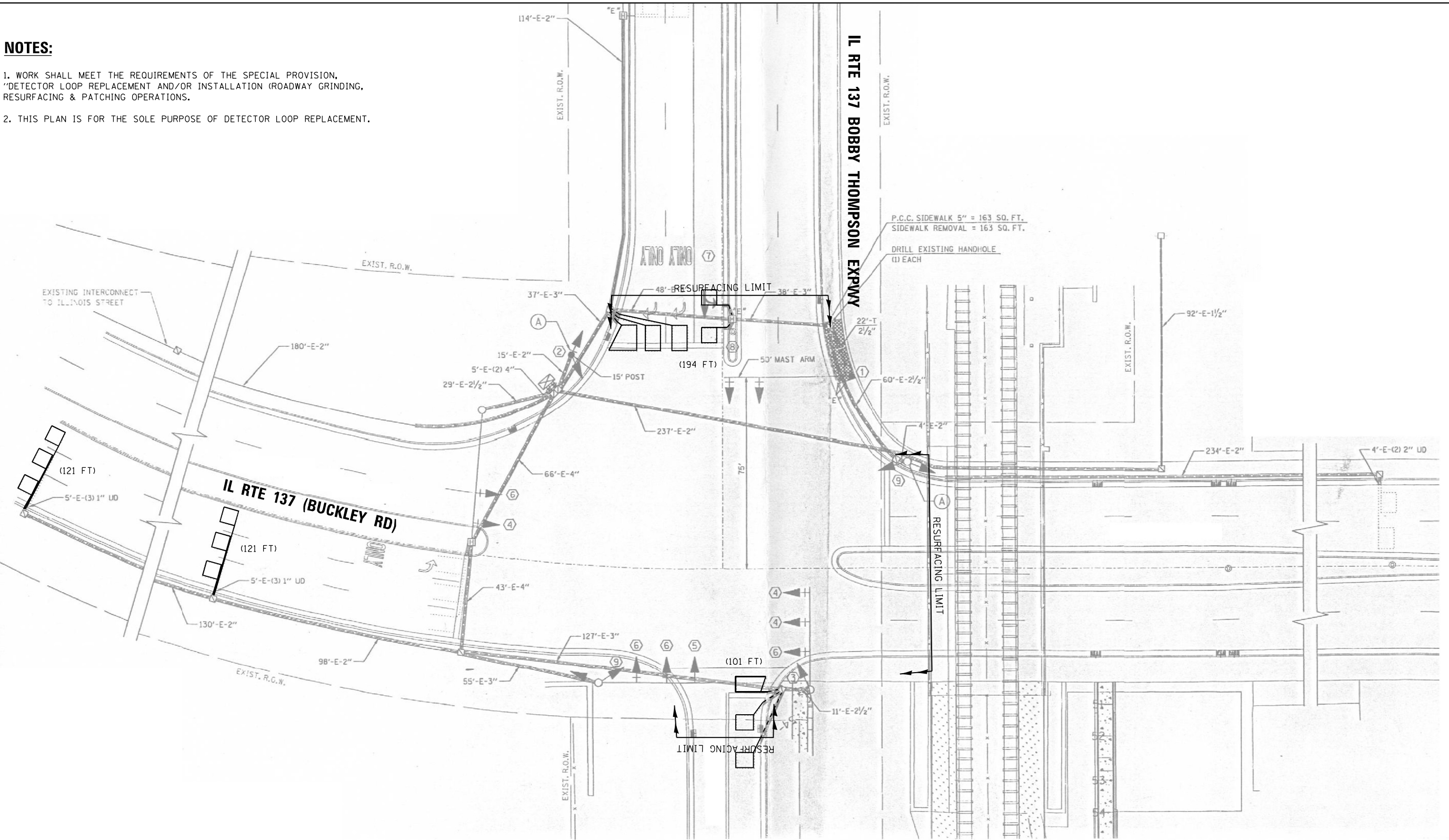
SCALE: SHEET OF SHEETS STA. TO STA.





**NOTES:**

1. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING & PATCHING OPERATIONS).
2. THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENT.



**REPLACE ALL DETECTOR LOOPS AS SHOWN  
(WITHIN THE RESURFACING LIMITS)**

CODE	ITEM	QUANTITY	UNIT	
88600600	DETECTOR LOOP REPLACEMENT	537	FOOT	TS 21010

FILE NAME = 62H69 IL 137 Buckley Rd @ IL 137 Bobby Thompson Expwy.dgn	USER NAME = var-gosa	DESIGNED - AV	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - KK	DRAWN - AV	REVISED -
PLOT DATE = 10/20/2021	DATE - 10/20/2021		REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>DETECTOR LOOP REPLACEMENT PLAN</b>			
<b>IL RTE 137 (BUCKLEY RD) AT IL RTE 137 BOBBY THOMPSON EXPWY</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE. 352	SECTION 2018-136-R5-SW	COUNTY LAKE	TOTAL SHEETS 66	SHEET NO. 66
CONTRACT NO. 62H69				ILLINOIS FED. AID PROJECT