

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	FAP 0339 22 RS	COOK	34	1
ILLINOIS			CONTRACT NO. 62T11	

* 34 + 22 = 64 TOTAL SHEETS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THIS IMPROVEMENT IS LOCATED IN THE CITY OF DES PLAINES AND THE VILLAGES OF MORTON GROVE AND NILES.

TRAFFIC DATA

IL 58 (GOLF ROAD)
2021 ADT: 34,700
POSTED SPEED LIMIT: 35 - 40 MPH

LOCATION #1:
FAP ROUTE 339 - IL 58 (GOLF RD)
FROM I-294 (TRI-STATE TOLLWAY) TO LINCOLN ST
SMART OVERLAY WITH ADA IMPROVEMENTS

LOCATION #2:
OR ROUTE 1320 - ELK BLVD
FROM US12/45 TO US 12
DESIGNED OVERLAY

SECTION: FAP 0339 22 RS
PROJECT: NHPP-P6GK(045)
COOK COUNTY
C-91-293-22

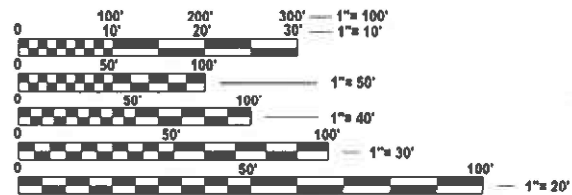


LOCATION 1:
PROJECT BEGINS
FAP 339 - IL 58 (GOLF RD)
STA. 16+76

LOCATION 1:
PROJECT ENDS
FAP 339 - IL 58 (GOLF RD)
STA. 177+50

LOCATION 2:
PROJECT BEGINS
OR 1320 - ELK BLVD
STA. 15+00

LOCATION 2:
PROJECT ENDS
OR 1320 - ELK BLVD
STA. 20+57



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

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

PROJECT ENGINEER: RODRIGO LEDEZMA (847) 705-4580
PROJECT MANAGER: J. ALAIN MIDY (847) 221-3056

GROSS LENGTH = 16,624 FT. = 3.148 MILE
NET LENGTH = 16,624 FT. = 3.148 MILE

CONTRACT NO. 62T11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED June 20, 2024
[Signature] REGIONAL ENGINEER

August 16, 2024
[Signature] ENGINEER OF DESIGN AND ENVIRONMENT

August 16, 2024
[Signature] DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 13

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OF THE STATE OF ILLINOIS

INDEX OF SHEETS

STATE STANDARDS

GENERAL NOTES

SHEET NO.

DESCRIPTION

STANDARD NO.

DESCRIPTION

1	COVER SHEET	000001-08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
2	INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES	701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
3 - 5	SUMMARY OF QUANTITIES	701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
6 - 7	TYPICAL SECTIONS	701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS < 40 MPH
8 - 14	ROADWAY PLAN	701456-05	PARTIAL EXIT RAMP CLOSURE, FREEWAY/EXPRESSWAY
15 - 22	ADA IMPROVEMENT DETAILS	701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
23 - 31	APS AND DETECTOR LOOP SIGNAL PLANS	701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
32	FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD-08)	701611-01	URBAN HALF ROAD CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
33	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22)	701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
34	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT (BD-24)	701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
35	BUTT JOINTS AND HMA TAPER (BD-32)	701901-09	TRAFFIC CONTROL DEVICES
36	ENTRANCE AND EXIT RAMP CLOSURE DETAILS (TC-08)		
37	TRAFFIC CONTROL AND PROTECTION FOR SIDEROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)		
38	RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT) (TC-11)		
39	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)		
40	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14)		
41	SHORT-TERM PAVEMENT MARKING LETTERS AND SYMBOLS (TC-16)		
42	ARTERIAL ROAD INFORMATION SIGN (TC-22)		
43	DRIVEWAY ENTRANCE SIGNING (TC-26)		
44 - 50	STANDARD TRAFFIC CONTROL SIGNAL DESIGN DETAILS (TS-05)		
51	DETECTOR LOOP INSTALLATION DETAIL FOR ROADWAY RESURFACING (TS-07)		

- 1 THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 2 ALL MILLED SURFACES SHALL BE A UNIFORM CROSS SLOPE PER LANE AND FREE OF RIDGES BETWEEN PASSES. ANY DEVIATIONS SHALL BE CORRECTED AT NO COST TO THE DEPARTMENT.
- 3 BUTT JOINTS SHALL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) ACCORDING TO THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- 4 ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 5 LOCATION OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT (OR COMBINATION CURB AND GUTTER (THE TYPE SPECIFIED ON THE PLANS)), WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 6 TEN (10) FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS AND GUTTER AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN.
- 7 DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 8 IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 9 FRAMES AND GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.
- 10 THE CONTRACTOR SHALL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF PLATED STRUCTURES BY STATION AND OFFSET LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT.
- 11 THE CONTRACTOR SHALL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL DELIVER THE RECORD TO THE ENGINEER.
- 12 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.
- 13 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.
- 14 THE ENGINEER SHALL CONTACT FADI SULTAN, AREA TRAFFIC FIELD ENGINEER, AT (847) 772-4058 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- 15 PAVEMENT MARKING TAPE, TYPE IV SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.
- 16 OVERNIGHT LANE CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURES AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS.

GENERAL NOTES CONTINUE ON NEXT SHEET

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		DRAWN - CCC	REVISED - RV2			339	FAP 0399 22 RS	COOK	51	2
	PLOT SCALE = 0.16666633 / in.	CHECKED - AAA	REVISED - RV3			CONTRACT NO. 62T11				
	PLOT DATE = 6/28/2024	DATE - XX/XX/XX	REVISED - RV4		SCALE:	SHEET 1 OF 1 SHEETS		STA. TO STA.		
						ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

Code No.	Item	Unit	Total Quantity	IL 58 80% FED 20% STATE 0004	IL 58 80% FED 20% STATE 0021	IL 58 100% STATE 0044	ELK BLVD 100% STATE 0004		
20101400	NITROGEN FERTILIZER NUTRIENT	POUND	4	4					
20101500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	4	4					
20101600	POTASSIUM FERTILIZER NUTRIENT	POUND	4	4					
20200100	EARTH EXCAVATION	CU YD	28.5	28.5					
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	210	172			38		
25200110	SODDING, SALT TOLERANT	SQ YD	210	172			38		
25200200	SUPPLEMENTAL WATERING	UNIT	2	2					
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	17	17					
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	59618	57485			2133		
40600370	LONGITUDINAL JOINT SEALANT	FOOT	56410	54760			1650		
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	240	192			48		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	705	604			101		
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	75	75					
40602978	HOT-MIX ASPHALT BINDER COURSE, IL- 9.5, N50	TON	310				310		
40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	313	3			310		
40605026	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80	TON	12519	12519					
42001300	PROTECTIVE COAT	SQ YD	1054	1000			54		
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	35.4	27			8.4		
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	5238	5238					
42400800	DETECTABLE WARNINGS	SQ FT	228	228					
44000156	HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"	SQ YD	127744	127744					
44000163	HOT-MIX ASPHALT SURFACE REMOVAL, 3 1/2"	SQ YD	3160				3160		

SUMMARY OF QUANTITIES

Code No.	Item	Unit	Total Quantity	IL 58 80% FED 20% STATE 0004	IL 58 80% FED 20% STATE 0021	IL 58 100% STATE 0044	ELK BLVD 100% STATE 0004		
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	60.4	52			8.4		
44000600	SIDEWALK REMOVAL	SQ FT	5238	5238					
44002207	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 1 3/4"	SQ YD	759	759					
44201761	CLASS D PATCHES, TYPE I, 10 INCH	SQ YD	4				4		
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	82				82		
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	48				48		
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	38				38		
44201773	CLASS D PATCHES, TYPE I, 11 INCH	SQ YD	8	8					
44201777	CLASS D PATCHES, TYPE II, 11 INCH	SQ YD	351	351					
44201781	CLASS D PATCHES, TYPE III, 11 INCH	SQ YD	200	200					
44201783	CLASS D PATCHES, TYPE IV, 11 INCH	SQ YD	200	200					
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	2	1			1		
60262700	INLETS TO BE RECONSTRUCTED	EACH	1	1					
60266600	VALVE BOXES TO BE ADJUSTED	EACH	3	3					
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	41	41					
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	9	8			1		
60404950	FRAMES AND GRATES, TYPE 24	EACH	5	5					
60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	3	2			1		
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	26	26					
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	28.5	28.5					
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	4	4					
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1					

* SPECIALTY ITEM

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	DRAWN - CCC	REVISED - RV2
	CHECKED - AAA	REVISED - RV3
PLOT DATE = 6/28/2024	DATE - XX/XX/XX	REVISED - RV4

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
IL ROUTE 58 (GOLF RD) - I-294 (TRI-STATE TOLLWAY) TO LINCOLN ST**

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	FAP 0399 22 RS	COOK	51	3
CONTRACT NO. 62T11				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

Code No.	Item	Unit	Total Quantity	IL 58 80% FED 20% STATE 0004	IL 58 80% FED 20% STATE 0021	IL 58 100% STATE 0044	ELK BLVD 100% STATE 0004
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1			
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	10	10			
67100100	MOBILIZATION	L SUM	1	0.5			0.5
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	0.5			0.5
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	0.5			0.5
70102634	TRAFFIC CONTROL AND PROTECTION, STANDARD 701611	L SUM	1	0.5			0.5
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0.5			0.5
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	0.5			0.5
70300100	SHORT TERM PAVEMENT MARKING	FOOT	35449	34929			520
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	11817	11643			174
70300211	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - PAINT	SQ FT	7317.6	7132.8			184.8
70300221	TEMPORARY PAVEMENT MARKING - LINE 4"- PAINT	FOOT	164246	160904			3342
70300241	TEMPORARY PAVEMENT MARKING - LINE 6"- PAINT	FOOT	33840	33642			198
70300251	TEMPORARY PAVEMENT MARKING - LINE 8"- PAINT	FOOT	2169	1845			324
70300261	TEMPORARY PAVEMENT MARKING - LINE 12"- PAINT	FOOT	12303	11883			420
70300281	TEMPORARY PAVEMENT MARKING - LINE 24"- PAINT	FOOT	4688	4556			132
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	2439.2	2377.6			61.6
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	54749	53635			1114
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	11280	11214			66
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	723	615			108
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	4101	3961			140
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	1563	1519			44

SUMMARY OF QUANTITIES

Code No.	Item	Unit	Total Quantity	IL 58 80% FED 20% STATE 0004	IL 58 80% FED 20% STATE 0021	IL 58 100% STATE 0044	ELK BLVD 100% STATE 0004
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	2044	1997			47
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	2044	1997			47
* 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	315		315		
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	10		10		
* 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	2535		2535		
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	980		980		
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN NO. 14 1 PAIR	FOOT	9595		9595		
* 87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1790		1790		
* 87900200	DRILL EXISTING HANDHOLE	EACH	17		17		
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2		2		
* 89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	5230		5230		
88500100	INDUCTIVE LOOP DETECTOR	EACH	22		22		
* 89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	8		8		
88600100	DETECTOR LOOP, TYPE I	FOOT	5040		5040		
* 89502376	REBUILD EXISTING HANDHOLE	EACH	5		5		
89500200	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	8		8		
* 89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	2		2		
89502200	MODIFY EXISTING CONTROLLER	EACH	1		1		
X0320050	CONSTRUCTION LAYOUT (SPECIAL)	L SUM	1	1			
89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	410		410		
* X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	50		50		
89502380	REMOVE EXISTING HAND HOLE	EACH	4		4		
X0327611	REMOVE AND REINSTALL BRICK PAVER	SQ FT	100	100			
* X1400367	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	4		4		
* X1400378	PEDESTRIAN SIGNAL POST, 5 FT.	EACH	13		13		
X4060995	TEMPORARY RAMP (SPECIAL)	SQ YD	87				87
X4400501	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT LESS THAN OR EQUAL TO 10 FEET	FOOT	260	250			10
X4400503	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT GREATER THAN 10 FEET	FOOT	1196	1000			196
X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	4470			4455	15

* SPECIALTY ITEM

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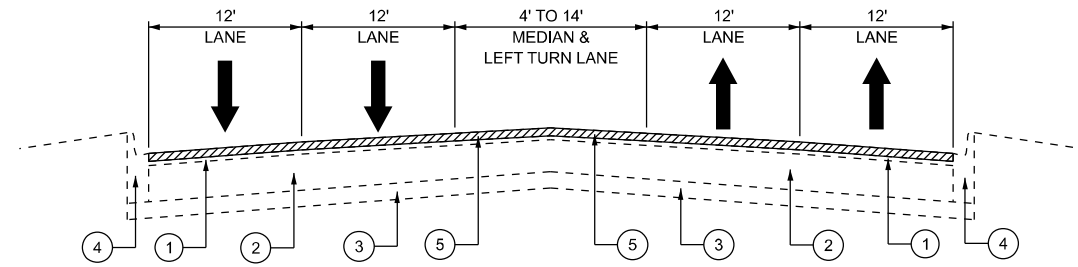
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PLOT DATE = 6/28/2024	DATE - XX/XX/XX	REVISED - RV4

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL ROUTE 58 (GOLF RD) - I-294 (TRI-STATE TOLLWAY) TO LINCOLN ST

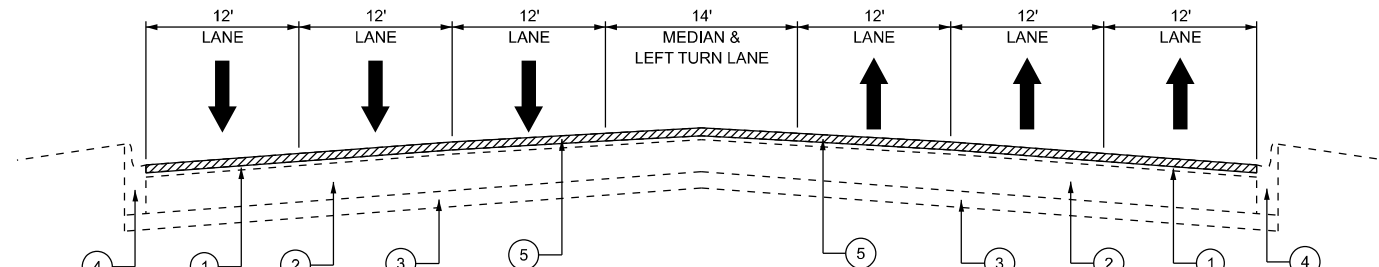
SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	FAP 0399 22 RS	COOK	51	4
CONTRACT NO. 62T11				
ILLINOIS FED. AID PROJECT				



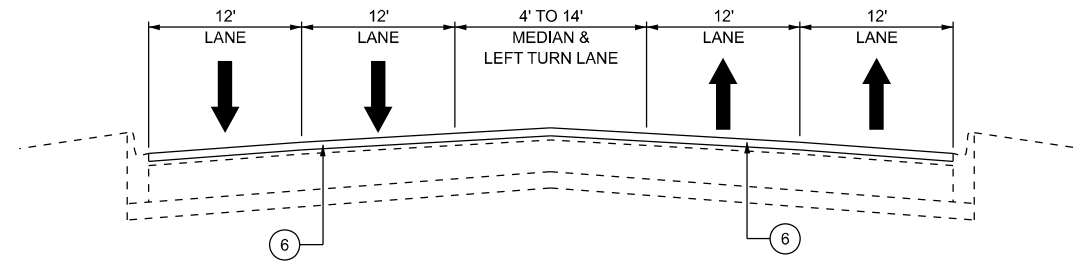
EXISTING TYPICAL SECTION - IL 58

STA. 16+76 TO STA. 83+25
STA. 115+94 TO STA. 177+50



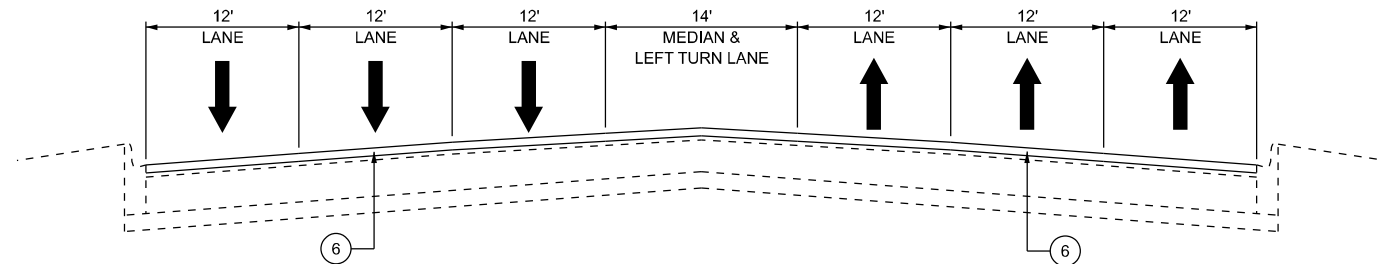
EXISTING TYPICAL SECTION - IL 58

STA. 83+25 TO STA. 115+94



PROPOSED TYPICAL SECTION - IL 58

STA. 16+76 TO STA. 83+25
STA. 115+94 TO STA. 177+50



PROPOSED TYPICAL SECTION - IL 58

STA. 83+25 TO STA. 115+94

LEGEND

- ① EXISTING SURFACE COURSE, 2¾"
- ② EXISTING BASE COURSE, 10"
- ③ EXISTING SUBBASE, 4"
- ④ EXISTING CURB AND GUTTER
- ⑤ PROPOSED HOT-MIX ASPHALT REMOVAL, 1¾"
- ⑥ PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1¾"

NOTE:

1. THE CONTRACTOR SHALL PATCH BEFORE MILLING
2. THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED ON THE MILLED SURFACE

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		QMP
MIXTURE TYPE	AIR VOIDS @ Ndesign	
PAVEMENT RESURFACING (SMART OVERLAY)		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1¾"	3.5% @ 80 Gyr.	PFP
PAVEMENT RESURFACING (DESIGNED OVERLAY)		
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 1½"	4% @ 50 Gyr.	QC/QA
HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N50, 2"	4% @ 50 Gyr.	QC/QA
TEMPORARY RAMP, SPECIAL		
HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70	4% @ 70 Gyr.	QC/QA
PATCHING		
CLASS D PATCHES (HMA BINDER IL-19.0)	4% @ 70 Gyr.	QC/QA
HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19.0)	4% @ 70 Gyr.	QC/QA
QMP Designations: Quality Control/Quality Assurance (QC/QA); Quality Control for Performance (QCP); Pay for Performance (PFP)		

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.

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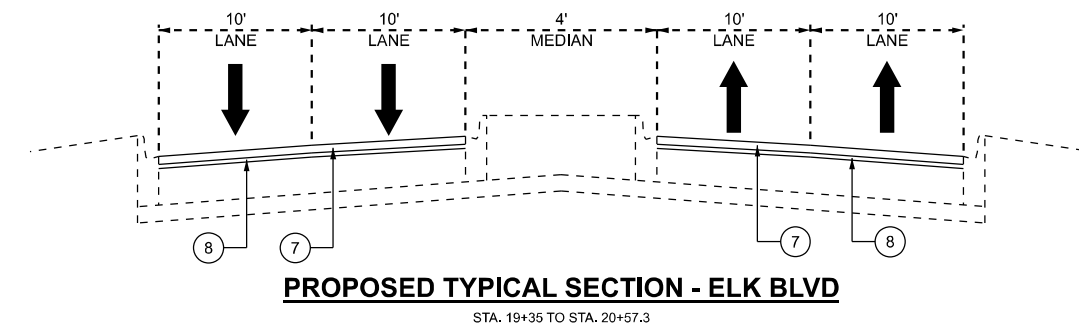
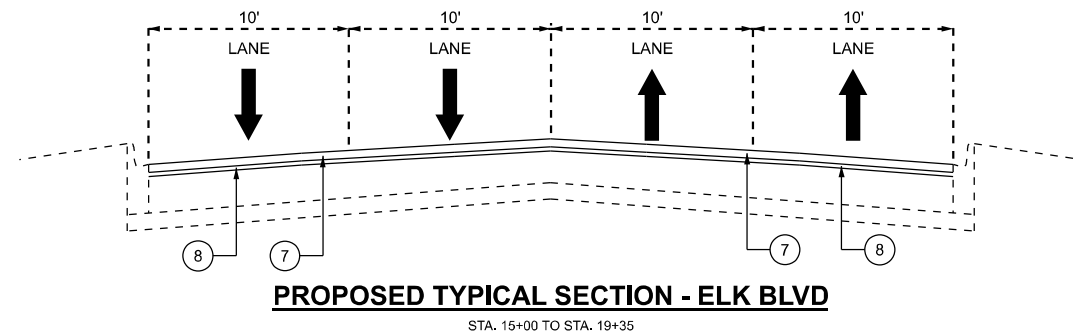
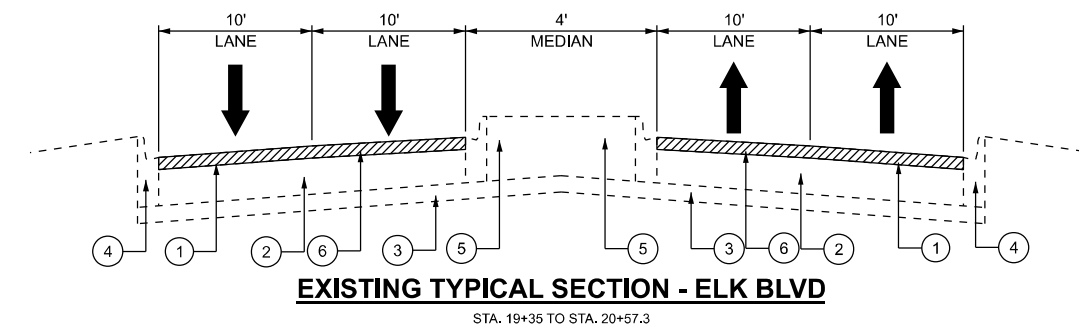
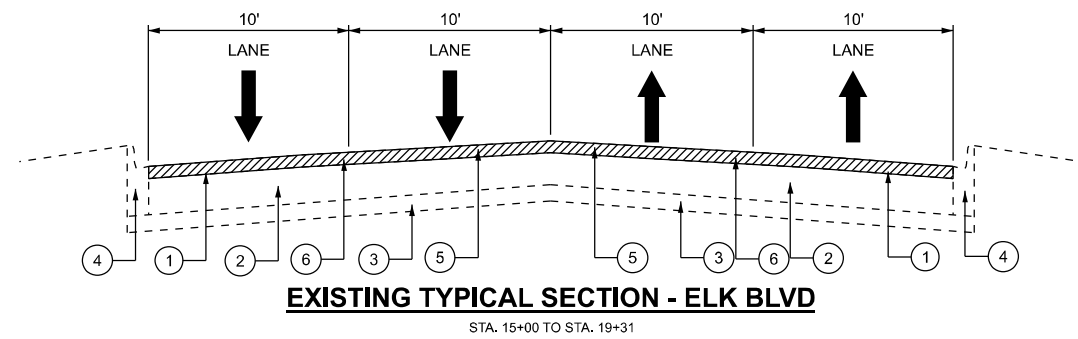
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	DRAWN - CCC	REVISED - RV2
	CHECKED - AAA	REVISED - RV3
PLOT DATE = 6/28/2024	DATE - XX/XX/XX	REVISED - RV4

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS
IL ROUTE 58 (GOLF RD) - I-294 (TRI-STATE TOLLWAY) TO LINCOLN ST**

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE. 339	SECTION FAP 0399 22 RS	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 6
CONTRACT NO. 62T11				
ILLINOIS FED. AID PROJECT				



LEGEND

- ① EXISTING SURFACE COURSE, ±3½"
- ② EXISTING BASE COURSE, ±10"
- ③ EXISTING SUBBASE, 4"
- ④ EXISTING CURB AND GUTTER
- ⑤ EXISTING RAISED MEDIAN
- ⑥ PROPOSED HOT-MIX ASPHALT REMOVAL, 3½"
- ⑦ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 1½"
- ⑧ PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N50, 2"

NOTE:

1. THE CONTRACTOR SHALL PATCH BEFORE MILLING
2. THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED ON THE MILLED SURFACE

MODEL: TypSec-02 (Sheet)
FILE NAME: c:\p\work\evr\evr\proj\0931886\124022-sh-typical.dgn

USER NAME = Jacob.Roth	DESIGNED - BBB	REVISED - RV1
	DRAWN - CCC	REVISED - RV2
	CHECKED - AAA	REVISED - RV3
PLOT DATE = 6/28/2024	DATE - XX/XX/XX	REVISED - RV4

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS
ELK BLVD - US12/45 (LEE ST/MANNHEIM RD) TO US 12 (RAND RD)**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	FAP 0399 22 RS	COOK	51	7
CONTRACT NO. 62T11				
ILLINOIS FED. AID PROJECT				



POT STA 10+00.00

EAST RIVER RD.

BENDER RD.

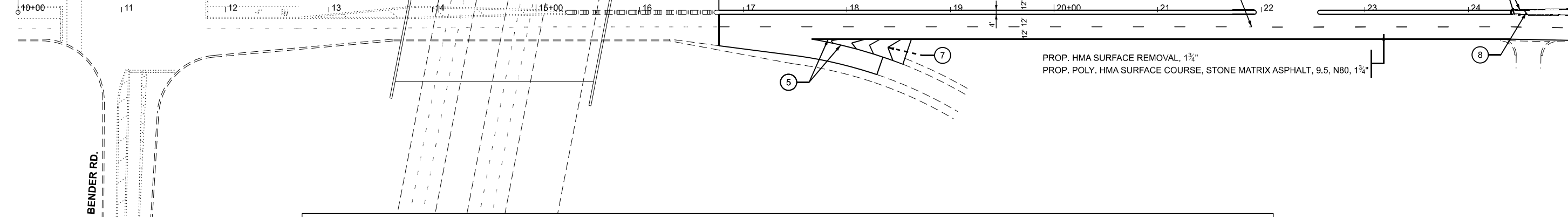
I-294

IL. ROUTE 58 (GOLF RD.)

BEGIN PROJECT STA. 16+76.44

REDING CIR.

MATCHLINE STA. 25+00.00



- | | | | |
|--------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------------|------------------------------------------------------------------------|
| ① PROP. THERMOPLASTIC PVMT. MARKING 4", 10' DASH, 30' SKIP, WHITE (TYP.) | ④ PROP. THERMOPLASTIC PVMT. MARKING 6", 2' DASH, 6' SKIP, WHITE (TYP.) | ⑦ PROP. THERMOPLASTIC PVMT. MARKING 12", MEDIAN @ 45°, WHITE (TYP.) (5 MINIMUM) | ⑩ PROP. THERMOPLASTIC PVMT. MARKING 24", STOP BAR, WHITE (TYP.) |
| ② PROP. THERMOPLASTIC PVMT. MARKING 4", DOUBLE YELLOW @ 11" C-C (TYP.) | ⑤ PROP. THERMOPLASTIC PVMT. MARKING 8", SOLID LINE, GORE, WHITE (TYP.) | ⑧ PROP. THERMOPLASTIC PVMT. MARKING 12", MEDIAN @ 45°, YELLOW (TYP.) (5 MINIMUM) | ⑪ PROP. THERMOPLASTIC PVMT. MARKING, LETTERS AND SYMBOLS, WHITE (TYP.) |
| ③ PROP. THERMOPLASTIC PVMT. MARKING 6", TURN LANE, WHITE (TYP.) | ⑥ PROP. THERMOPLASTIC PVMT. MARKING 6", CROSSWALK @ 6' C-C, WHITE (TYP.) | ⑨ PROP. THERMOPLASTIC PVMT. MARKING 12" CROSSWALK @ 90°, 2' C-C, WHITE (TYP.) | |



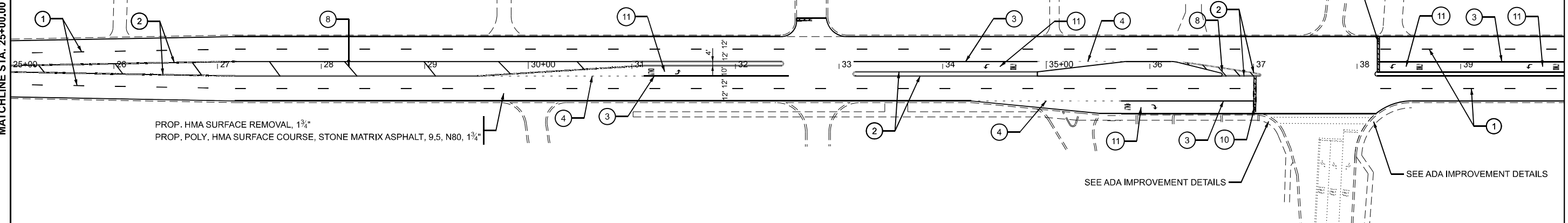
IL. ROUTE 58 (GOLF RD.)

MATCHLINE STA. 25+00.00

OAK LN.

ELMS TERR.

MATCHLINE STA. 40+00.00



PROP. HMA SURFACE REMOVAL, 1 3/4"
PROP. POLY. HMA SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, N80, 1 3/4"

SEE ADA IMPROVEMENT DETAILS

SEE ADA IMPROVEMENT DETAILS

POTTER RD.

MODEL: EXCL - PchvPlan 1
FILE NAME: c:\p\work\p\control\p\0931886\124022-shr-plan.dgn

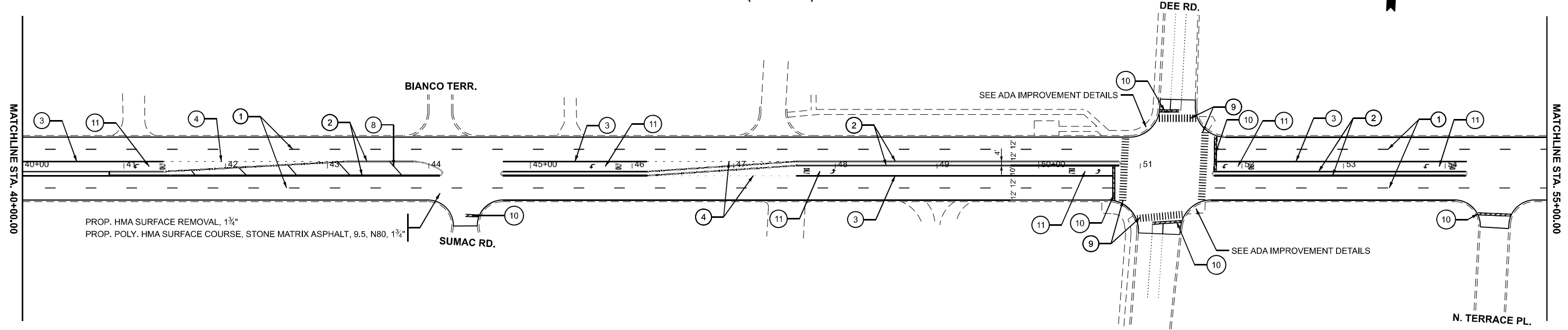
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PLOT DATE = 6/28/2024	CHECKED - AAA	REVISED - RV3
	DATE - XX/XX/XX	REVISED - RV4

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED ROADWAY PLAN
IL ROUTE 58 (GOLF RD) - I-294 (TRI-STATE TOLLWAY) TO LINCOLN ST
SCALE: 1"=50'
SHEET 1 OF 7 SHEETS
STA. 10+00.00 TO STA. 40+00.00

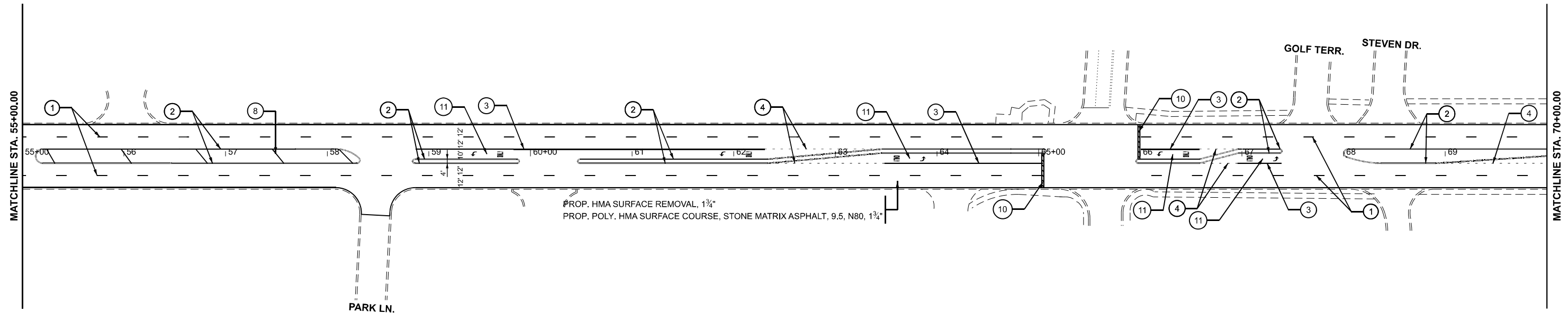
F.A.P. RTE. 339	SECTION FAP 0399 22 RS	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 8
CONTRACT NO. 62T11				
ILLINOIS FED. AID PROJECT				

IL. ROUTE 58 (GOLF RD.)



- | | | | |
|--------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------------|------------------------------------------------------------------------|
| ① PROP. THERMOPLASTIC PVMT. MARKING 4", 10' DASH, 30' SKIP, WHITE (TYP.) | ④ PROP. THERMOPLASTIC PVMT. MARKING 6", 2' DASH, 6' SKIP, WHITE (TYP.) | ⑦ PROP. THERMOPLASTIC PVMT. MARKING 12", MEDIAN @ 45°, WHITE (TYP.) (5 MINIMUM) | ⑩ PROP. THERMOPLASTIC PVMT. MARKING 24", STOP BAR, WHITE (TYP.) |
| ② PROP. THERMOPLASTIC PVMT. MARKING 4", DOUBLE YELLOW @ 11" C-C (TYP.) | ⑤ PROP. THERMOPLASTIC PVMT. MARKING 8", SOLID LINE, GORE, WHITE (TYP.) | ⑧ PROP. THERMOPLASTIC PVMT. MARKING 12", MEDIAN @ 45°, YELLOW (TYP.) (5 MINIMUM) | ⑪ PROP. THERMOPLASTIC PVMT. MARKING, LETTERS AND SYMBOLS, WHITE (TYP.) |
| ③ PROP. THERMOPLASTIC PVMT. MARKING 6", TURN LANE, WHITE (TYP.) | ⑥ PROP. THERMOPLASTIC PVMT. MARKING 6", CROSSWALK @ 6' C-C, WHITE (TYP.) | ⑨ PROP. THERMOPLASTIC PVMT. MARKING 12" CROSSWALK @ 90°, 2' C-C, WHITE (TYP.) | |

IL. ROUTE 58 (GOLF RD.)



MODEL: EXCL - PchvPlan 3
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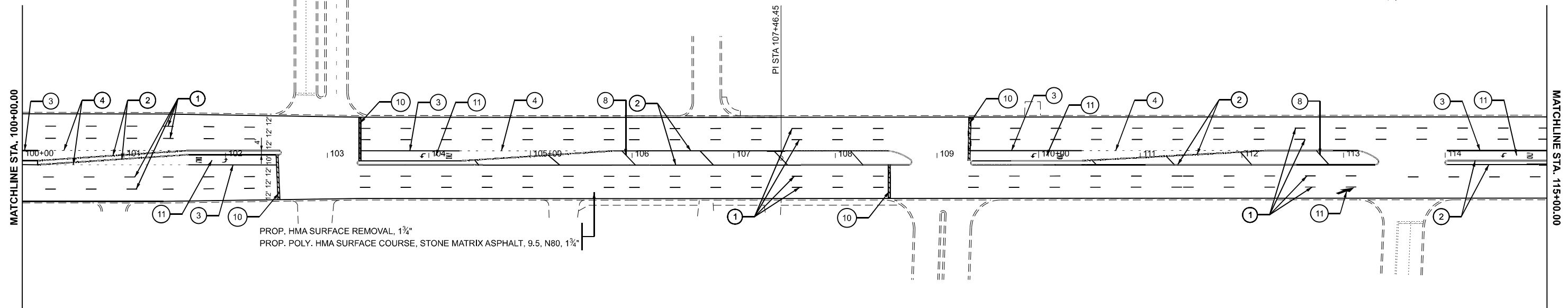
USER NAME = Jacob.Roth	DESIGNED - BBB	REVISED - RV1
DRAWN - CCC	REVISED - RV2	
PLOT SCALE = 0.16666633' / in.	CHECKED - AAA	REVISED - RV3
PLOT DATE = 6/28/2024	DATE - XX/XX/XX	REVISED - RV4

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED ROADWAY PLAN			
IL ROUTE 58 (GOLF RD) - I-294 (TRI-STATE TOLLWAY) TO LINCOLN ST			
SCALE: 1"=50'	SHEET 2	OF 7 SHEETS	STA. 40+00.00 TO STA. 70+00.00

F.A.P. RTE. 339	SECTION FAP 0399 22 RS	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 9
				CONTRACT NO. 62T11
ILLINOIS FED. AID PROJECT				

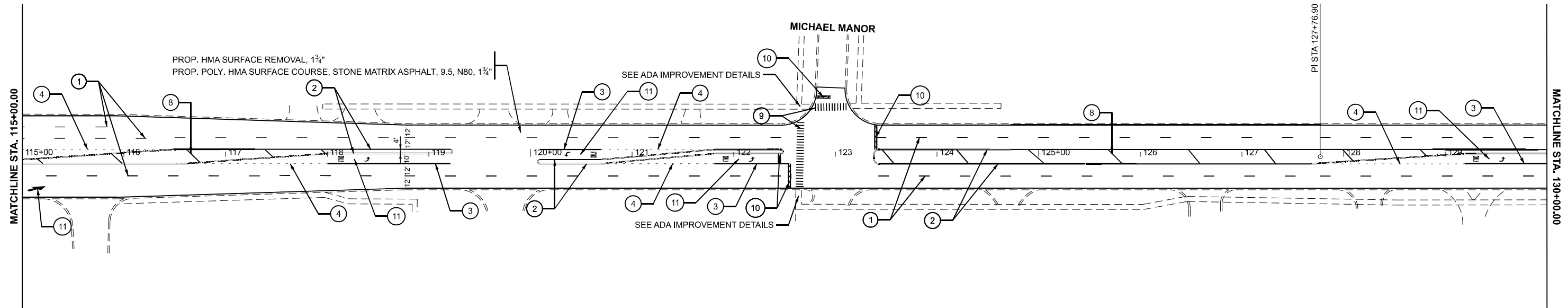
IL. ROUTE 58 (GOLF RD.)



PROP. HMA SURFACE REMOVAL, 1 3/4"
 PROP. POLY. HMA SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, N80, 1 3/4"

- | | | | |
|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| ① PROP. THERMOPLASTIC PVMT. MARKING 4",
10' DASH, 30' SKIP, WHITE (TYP.) | ④ PROP. THERMOPLASTIC PVMT. MARKING 6",
2' DASH, 6' SKIP, WHITE (TYP.) | ⑦ PROP. THERMOPLASTIC PVMT. MARKING 12",
MEDIAN @ 45°, WHITE (TYP.) (5 MINIMUM) | ⑩ PROP. THERMOPLASTIC PVMT. MARKING 24",
STOP BAR, WHITE (TYP.) |
| ② PROP. THERMOPLASTIC PVMT. MARKING 4",
DOUBLE YELLOW @ 11" C-C (TYP.) | ⑤ PROP. THERMOPLASTIC PVMT. MARKING 8",
SOLID LINE, GORE, WHITE (TYP.) | ⑧ PROP. THERMOPLASTIC PVMT. MARKING 12",
MEDIAN @ 45°, YELLOW (TYP.) (5 MINIMUM) | ⑪ PROP. THERMOPLASTIC PVMT. MARKING,
LETTERS AND SYMBOLS, WHITE (TYP.) |
| ③ PROP. THERMOPLASTIC PVMT. MARKING 6",
TURN LANE, WHITE (TYP.) | ⑥ PROP. THERMOPLASTIC PVMT. MARKING 6",
CROSSWALK @ 6' C-C, WHITE (TYP.) | ⑨ PROP. THERMOPLASTIC PVMT. MARKING 12",
CROSSWALK @ 90°, 2' C-C, WHITE (TYP.) | |

IL. ROUTE 58 (GOLF RD.)



PROP. HMA SURFACE REMOVAL, 1 3/4"
 PROP. POLY. HMA SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, N80, 1 3/4"

SEE ADA IMPROVEMENT DETAILS

SEE ADA IMPROVEMENT DETAILS

MODEL: EXCL - PchvPlan 7
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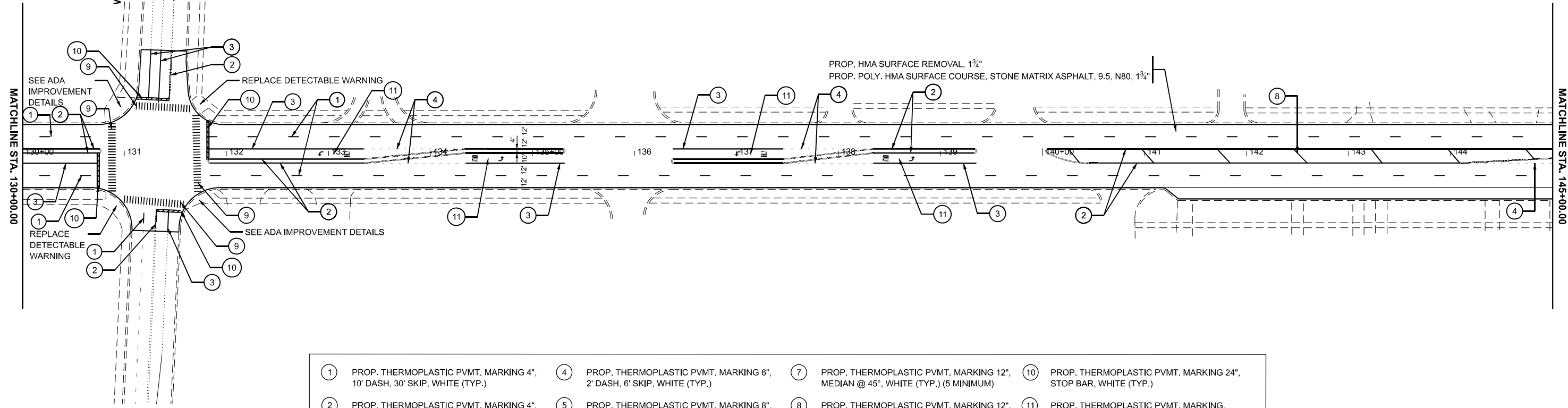
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	DRAWN - CCC	REVISED - RV2
PLOT SCALE = 0.16666833' / in.	CHECKED - AAA	REVISED - RV3
PLOT DATE = 6/28/2024	DATE - XX/XX/XX	REVISED - RV4

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED ROADWAY PLAN			
IL ROUTE 58 (GOLF RD) - I-294 (TRI-STATE TOLLWAY) TO LINCOLN ST			
SCALE: 1"=50'	SHEET 4	OF 7 SHEETS	STA. 100+00.00 TO STA. 130+00.00

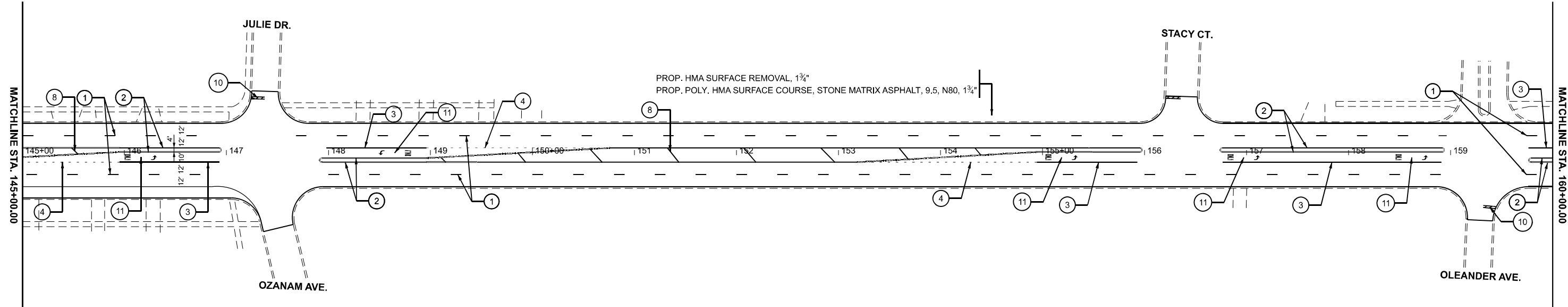
F.A.P. RTE. 339	SECTION FAP 0399 22 RS	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 11
CONTRACT NO. 62T11				
ILLINOIS FED. AID PROJECT				

IL. ROUTE 58 (GOLF RD.)



- | | | | |
|--------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------------|------------------------------------------------------------------------|
| ① PROP. THERMOPLASTIC PVMT. MARKING 4", 10' DASH, 30' SKIP, WHITE (TYP.) | ④ PROP. THERMOPLASTIC PVMT. MARKING 6", 2' DASH, 6' SKIP, WHITE (TYP.) | ⑦ PROP. THERMOPLASTIC PVMT. MARKING 12", MEDIAN @ 45°, WHITE (TYP.) (5 MINIMUM) | ⑩ PROP. THERMOPLASTIC PVMT. MARKING 24", STOP BAR, WHITE (TYP.) |
| ② PROP. THERMOPLASTIC PVMT. MARKING 4", DOUBLE YELLOW @ 11" C-C (TYP.) | ⑤ PROP. THERMOPLASTIC PVMT. MARKING 8", SOLID LINE, GORE, WHITE (TYP.) | ⑧ PROP. THERMOPLASTIC PVMT. MARKING 12", MEDIAN @ 45°, YELLOW (TYP.) (5 MINIMUM) | ⑪ PROP. THERMOPLASTIC PVMT. MARKING, LETTERS AND SYMBOLS, WHITE (TYP.) |
| ③ PROP. THERMOPLASTIC PVMT. MARKING 6", TURN LANE, WHITE (TYP.) | ⑥ PROP. THERMOPLASTIC PVMT. MARKING 6", CROSSWALK @ 6' C-C, WHITE (TYP.) | ⑨ PROP. THERMOPLASTIC PVMT. MARKING 12" CROSSWALK @ 90°, 2' C-C, WHITE (TYP.) | |

IL. ROUTE 58 (GOLF RD.)



MODEL: EXCL - PchvPlan 9
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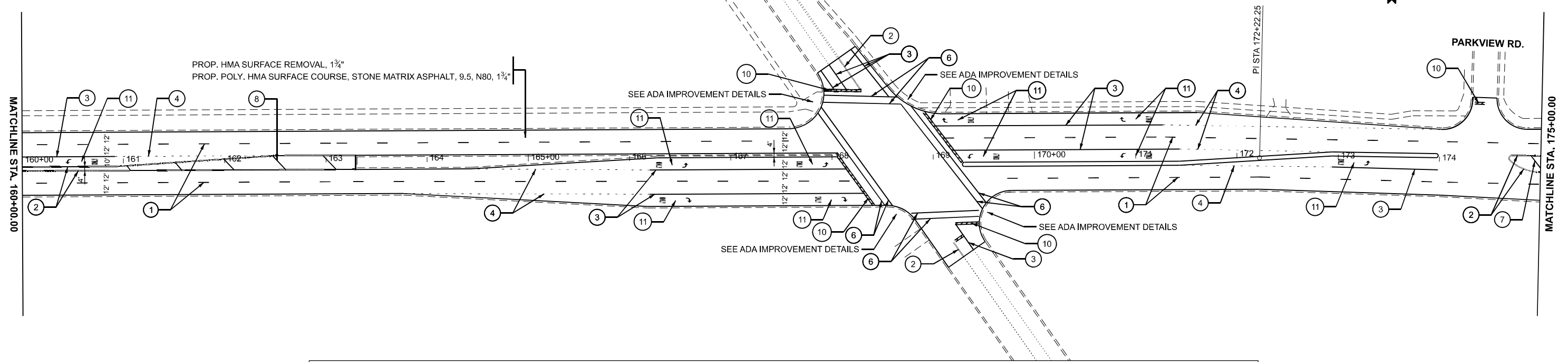
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DRAWN - CCC	REVISED - RV2	
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PLOT DATE = 6/28/2024	DATE - XX/XX/XX	REVISED - RV4

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED ROADWAY PLAN IL ROUTE 58 (GOLF RD) - I-294 (TRI-STATE TOLLWAY) TO LINCOLN ST			
SCALE: 1"=50'	SHEET 5	OF 7 SHEETS	STA. 130+00.00 TO STA. 160+00.00

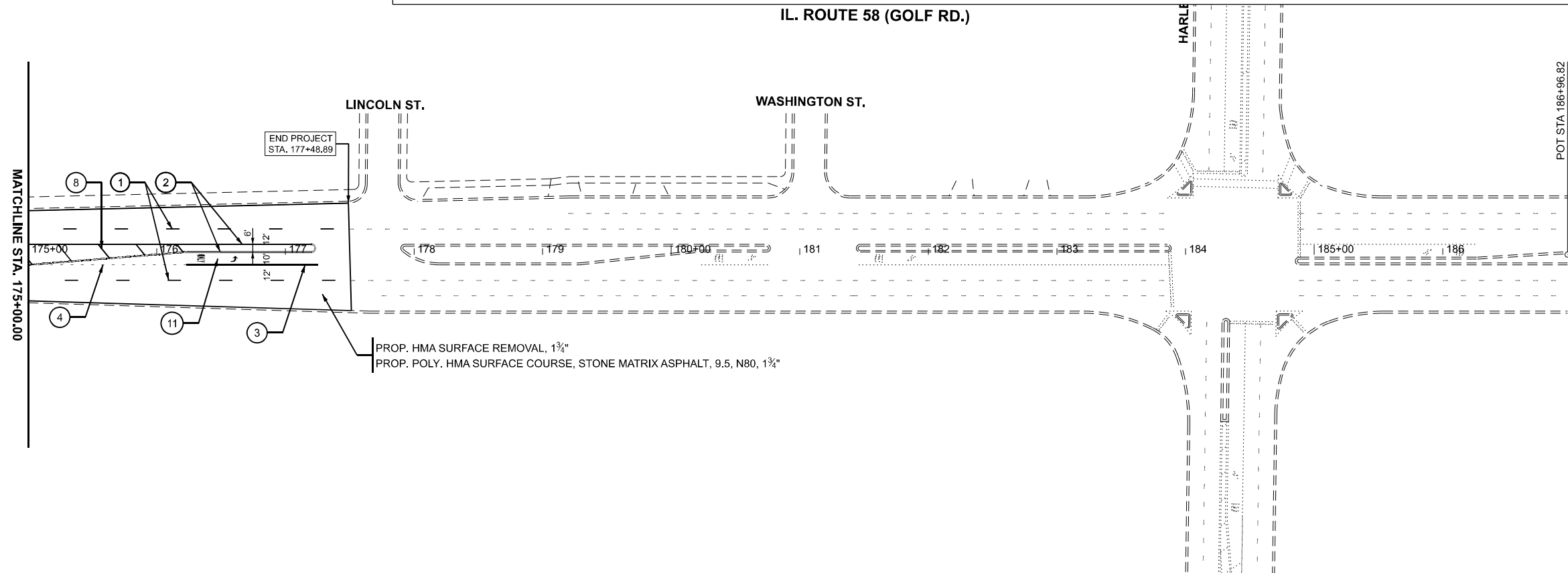
F.A.P. RTE. 339	SECTION FAP 0399 22 RS	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 12
CONTRACT NO. 62T11			ILLINOIS FED. AID PROJECT	

IL. ROUTE 58 (GOLF RD.)



- | | | | |
|--------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| 1 PROP. THERMOPLASTIC PVMT. MARKING 4", 10' DASH, 30' SKIP, WHITE (TYP.) | 4 PROP. THERMOPLASTIC PVMT. MARKING 6", 2' DASH, 6' SKIP, WHITE (TYP.) | 7 PROP. THERMOPLASTIC PVMT. MARKING 12", MEDIAN @ 45°, WHITE (TYP.) (5 MINIMUM) | 10 PROP. THERMOPLASTIC PVMT. MARKING 24", STOP BAR, WHITE (TYP.) |
| 2 PROP. THERMOPLASTIC PVMT. MARKING 4", DOUBLE YELLOW @ 11" C-C (TYP.) | 5 PROP. THERMOPLASTIC PVMT. MARKING 8", SOLID LINE, GORE, WHITE (TYP.) | 8 PROP. THERMOPLASTIC PVMT. MARKING 12", MEDIAN @ 45°, YELLOW (TYP.) (5 MINIMUM) | 11 PROP. THERMOPLASTIC PVMT. MARKING, LETTERS AND SYMBOLS, WHITE (TYP.) |
| 3 PROP. THERMOPLASTIC PVMT. MARKING 6", TURN LANE, WHITE (TYP.) | 6 PROP. THERMOPLASTIC PVMT. MARKING 6", CROSSWALK @ 6' C-C, WHITE (TYP.) | 9 PROP. THERMOPLASTIC PVMT. MARKING 12" CROSSWALK @ 90°, 2' C-C, WHITE (TYP.) | |

IL. ROUTE 58 (GOLF RD.)



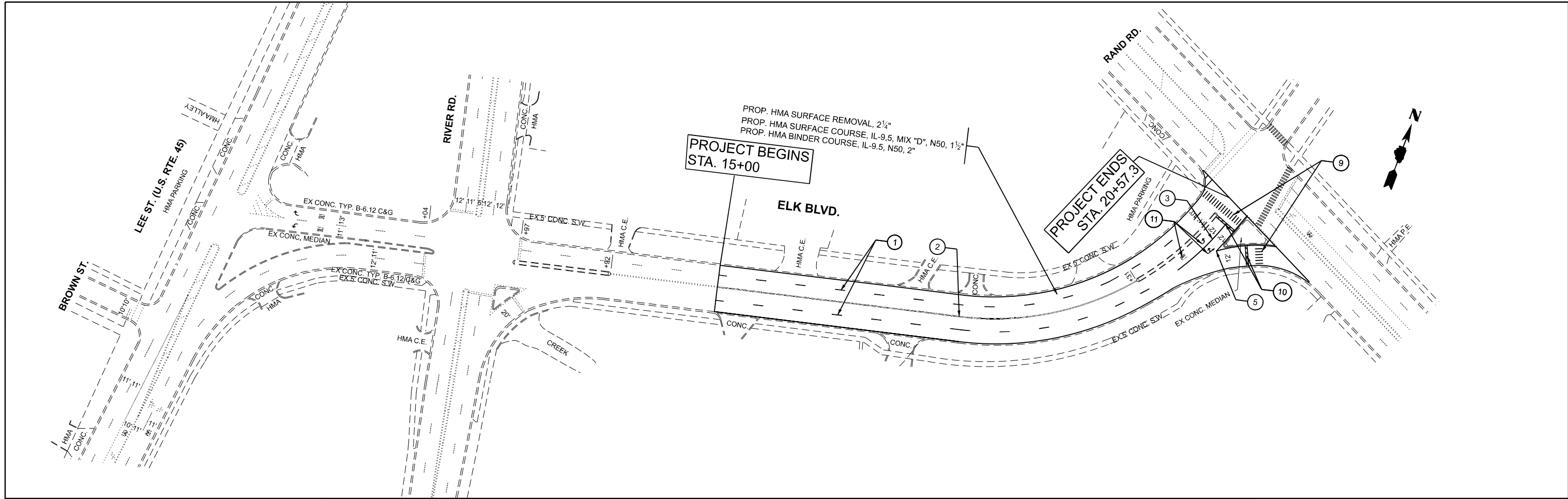
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DRAWN - CCC	REVISED - RV2	
PLOT SCALE = 0.16666633' / in.	CHECKED - AAA	REVISED - RV3
PLOT DATE = 6/28/2024	DATE - XX/XX/XX	REVISED - RV4

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED ROADWAY PLAN			
IL ROUTE 58 (GOLF RD) - I-294 (TRI-STATE TOLLWAY) TO LINCOLN ST			
SCALE: 1"=50'	SHEET 6	OF 7 SHEETS	STA. 160+00.00 TO STA. 190+00.00

F.A.P. RTE. 339	SECTION FAP 0399 22 RS	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 13
CONTRACT NO. 62T11				
ILLINOIS FED. AID PROJECT				



- | | | | |
|-------------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| ① PROP. THERMOPLASTIC PVM. MARKING 4", 10' DASH, 30' SKIP, WHITE (TYP.) | ④ PROP. THERMOPLASTIC PVM. MARKING 6", 2' DASH, 6' SKIP, WHITE (TYP.) | ⑦ PROP. THERMOPLASTIC PVM. MARKING 12", MEDIAN @ 45°, WHITE (TYP.) (5 MINIMUM) | ⑩ PROP. THERMOPLASTIC PVM. MARKING 24", STOP BAR, WHITE (TYP.) |
| ② PROP. THERMOPLASTIC PVM. MARKING 4", DOUBLE YELLOW @ 11" C-C (TYP.) | ⑤ PROP. THERMOPLASTIC PVM. MARKING 8", SOLID LINE, GORE, WHITE (TYP.) | ⑧ PROP. THERMOPLASTIC PVM. MARKING 12", MEDIAN @ 45°, YELLOW (TYP.) (5 MINIMUM) | ⑪ PROP. THERMOPLASTIC PVM. MARKING, LETTERS AND SYMBOLS, WHITE (TYP.) |
| ③ PROP. THERMOPLASTIC PVM. MARKING 6", TURN LANE, WHITE (TYP.) | ⑥ PROP. THERMOPLASTIC PVM. MARKING 6", CROSSWALK @ 6' C-C, WHITE (TYP.) | ⑨ PROP. THERMOPLASTIC PVM. MARKING 12" CROSSWALK @ 90°, 2' C-C, WHITE (TYP.) | |

MODEL: ELK - Plan1 [Sheet]
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USER NAME = Jacob.Roth	DESIGNED - BBB	REVISED - RV1
	DRAWN - CCC	REVISED - RV2
	CHECKED - AAA	REVISED - RV3
PLOT DATE = 6/28/2024	DATE - XX/XX/XX	REVISED - RV4

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED ROADWAY PLAN			
ELK BLVD. (U.S. RTE. 12 / 45 (LEE ST.) TO U.S. RTE. 12 (RAND RD.))			
SCALE: 1"=50'	SHEET 7	OF 7 SHEETS	STA. 10+00.00 TO STA. 25+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	FAP 0399 22 RS	COOK	51	14
CONTRACT NO. 62T11				
ILLINOIS FED. AID PROJECT				

GOLF RD



POTTER RD



REFERENCE BENCHMARK ELEV.: 640.43'
 BENCHMARK: CUT SQUARE IN THE N. CONC. BASE OF T.S. W/ ARM
 LOCATION: S.W. CORNER OF GOLF RD & POTTER ROAD

LEGEND

- xx.xx' EXISTING LENGTH
- PROPOSED SIDE CURB
- () EXISTING ELEVATION/SLOPE
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- SIDEWALK REMOVAL
REPLACE W/TOPSOIL & SOD

REFERENCE BENCHMARK ELEV.: 640.43'
 BENCHMARK: CUT SQUARE IN THE N. CONC. BASE OF T.S. W/ ARM
 LOCATION: S.W. CORNER OF GOLF RD & POTTER ROAD

MODEL: Potter (Sheet)
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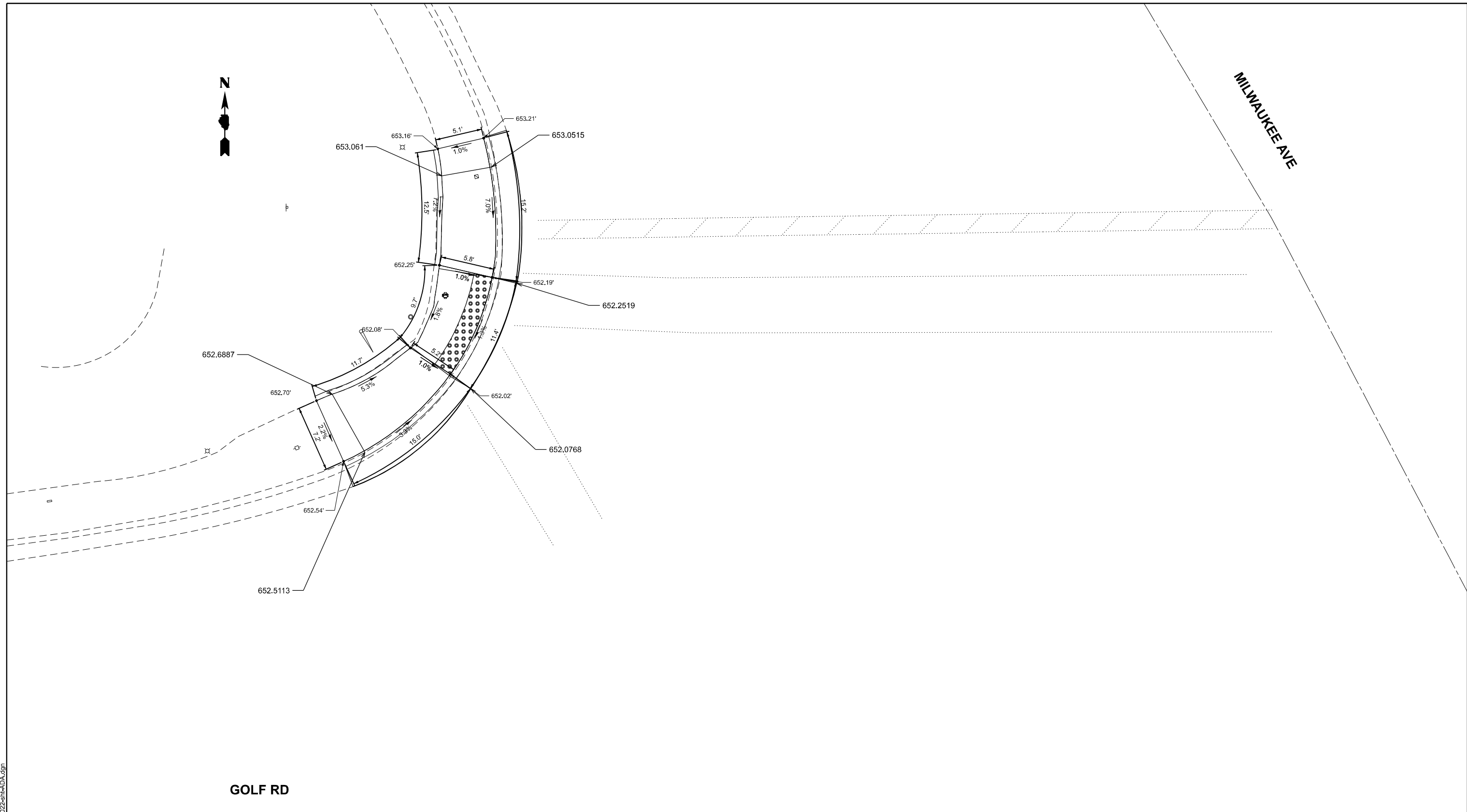
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DRAWN - CCC	REVISOR - RV2	
PLOT SCALE = 0.16666633' / in.	CHECKED - AAA	REVISED - RV3
PLOT DATE = 6/28/2024	DATE - JR	REVISED - RV4

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ADA IMPROVEMENT DETAIL
 SE & SW CORNERS OF GOLF RD & POTTER RD**

SCALE: SHEET OF 8 SHEETS STA. 0+00.00 TO STA. 0+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	FAP 0399 22 RS	COOK	51	15
CONTRACT NO. 62T11				
ILLINOIS FED. AID PROJECT				



LEGEND

- EXISTING LENGTH**
- PROPOSED SIDE CURB**
- EXISTING ELEVATION/SLOPE**
- PROPOSED SIDEWALK**
- DETECTABLE WARNINGS**
- SIDEWALK REMOVAL
REPLACE W/TOPSOIL & SOD**

BENCHMARK REFERENCE ELEV.: 652.36'
 BENCHMARK: CUT SQUARE IN S. CONC. BASE OF T.S.
 LOCATION: N.W. CORNER OF GOLF RD & MILWAUKEE AVE

MODEL: Milwaukee (Sheet)
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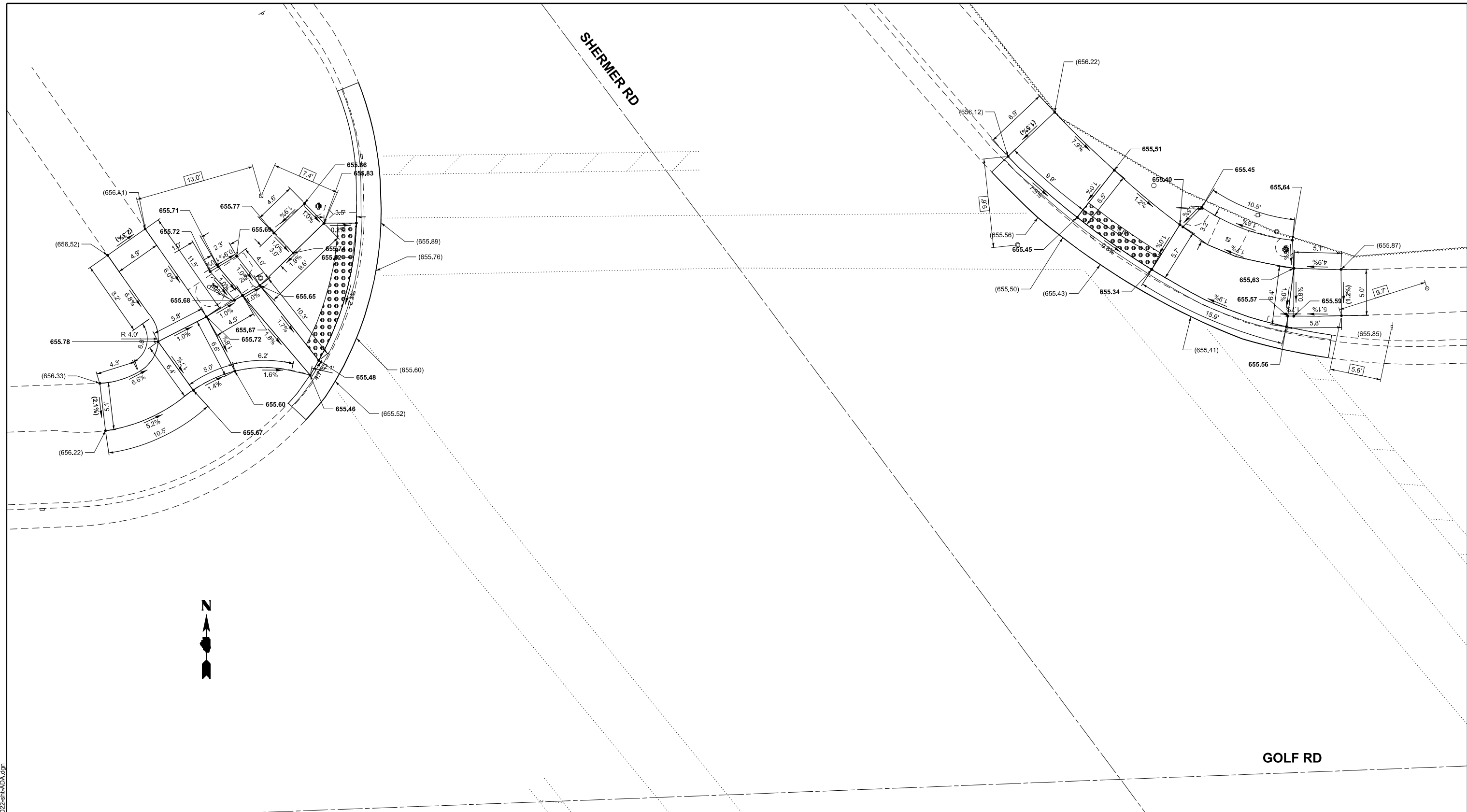
USER NAME = Jacob.Roth	DESIGNED - BA	REVISED - RV1
DRAWN - CCC	CHECKED - AAA	REVISED - RV2
PLOT SCALE = 0.16666833' / in.	DATE - JR	REVISED - RV3
PLOT DATE = 6/28/2024		REVISED - RV4

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ADA IMPROVEMENT DETAIL
 NW CORNER OF GOLF RD & MILWAUKEE AVE**

SCALE: SHEET OF 8 SHEETS STA. 0+00.00 TO STA. 0+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	FAP 0399 22 RS	COOK	51	18
CONTRACT NO. 62T11				
ILLINOIS FED. AID PROJECT				



SHERMER RD

GOLF RD



BENCHMARK REFERENCE ELEV.: 656.47'
 BENCHMARK: CUT SQUARE IN S. CONC. BASE OF T.S.
 LOCATION: N.W. CORNER OF GOLF RD & SHERMER RD

BENCHMARK REFERENCE ELEV.: 656.47'
 BENCHMARK: CUT SQUARE IN S. CONC. BASE OF T.S.
 LOCATION: N.W. CORNER OF GOLF RD & SHERMER RD

LEGEND

- XX.XX' EXISTING LENGTH
- PROPOSED SIDE CURB
- () EXISTING ELEVATION/SLOPE
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- SIDEWALK REMOVAL
REPLACE W/TOPSOIL & SOD

MODEL: Shermer N (Sheet)
 FILE NAME: c:\p\work\control\p\0931886\124022-shr-DA.dgn

USER NAME = Jacob.Roth	DESIGNED - BA	REVISED - RV1
DRAWN - CCC	CHECKED - AAA	REVISED - RV2
PLOT SCALE = 0.16666833' / in.	DATE - JR	REVISED - RV3
PLOT DATE = 6/28/2024		REVISED - RV4

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ADA IMPROVEMENT DETAIL
NW & NE CORNERS OF GOLF RD & SHERMER RD**

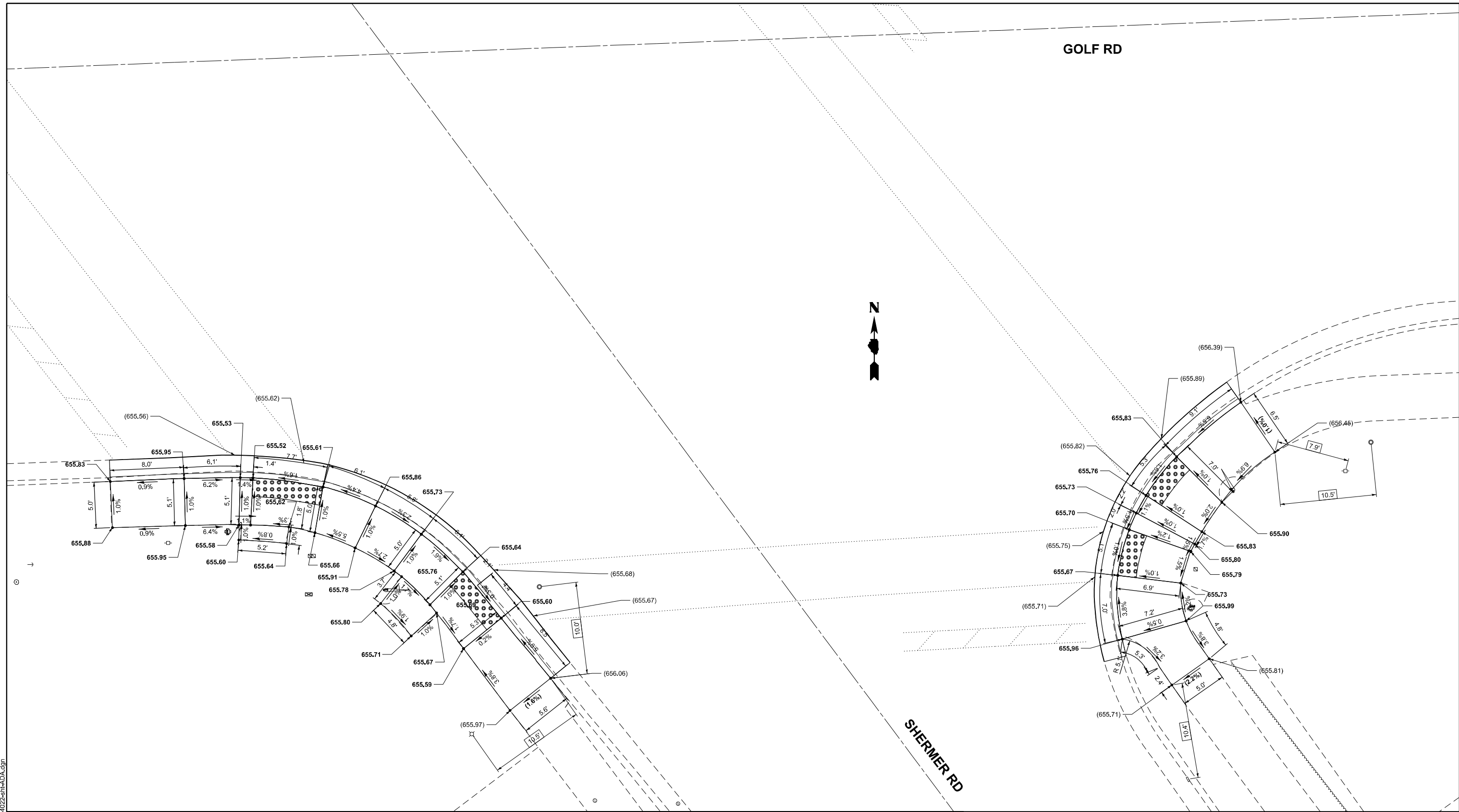
SCALE: SHEET OF 8 SHEETS STA. 0+00.00 TO STA. 0+00.00

F.A.P. RTE. 339	SECTION FAP 0399 22 RS	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 21
CONTRACT NO. 62T11				
ILLINOIS FED. AID PROJECT				

GOLF RD



SHERMER RD



BENCHMARK REFERENCE ELEV.: 656.47'
 BENCHMARK: CUT SQUARE IN S. CONC. BASE OF T.S.
 LOCATION: N.W. CORNER OF GOLF RD & SHERMER RD

LEGEND

- XX.XX' EXISTING LENGTH
- PROPOSED SIDE CURB
- () EXISTING ELEVATION/SLOPE
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- SIDEWALK REMOVAL
REPLACE W/TOPSOIL & SOD

BENCHMARK REFERENCE ELEV.: 656.47'
 BENCHMARK: CUT SQUARE IN S. CONC. BASE OF T.S.
 LOCATION: N.W. CORNER OF GOLF RD & SHERMER RD

MODEL: Shermer_S (Sheet)
 FILE NAME: c:\p\work\road\proj\0931886\124022-shr-ADA.dgn

USER NAME = Jacob.Roth	DESIGNED - BA	REVISED - RV1
DRAWN - CCC	REVISED - RV2	
PLOT SCALE = 0.16666833' / in.	CHECKED - AAA	REVISED - RV3
PLOT DATE = 6/28/2024	DATE - JR	REVISED - RV4

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ADA IMPROVEMENT DETAIL
 SW & SE CORNERS OF GOLF RD & SHERMER RD**

SCALE: SHEET OF 8 SHEETS STA. 0+00.00 TO STA. 0+00.00

F.A.P. RTE. 339	SECTION FAP 0399 22 RS	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 22
CONTRACT NO. 62T11				
ILLINOIS FED. AID PROJECT				

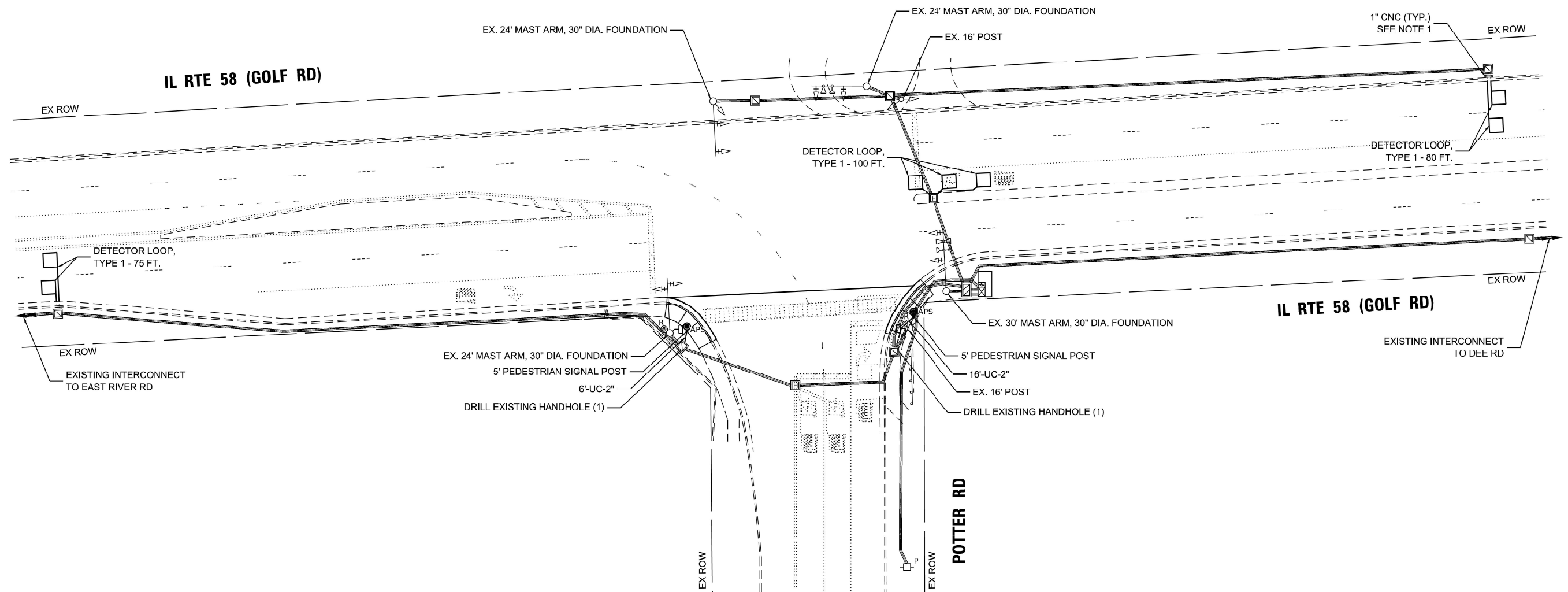
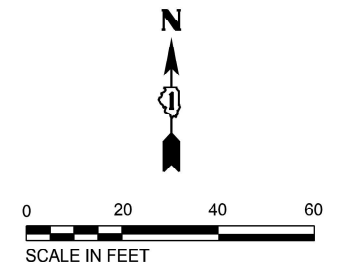
NOTES:

1. THIS PLAN IS FOR THE INSTALLATION OF APS PUSH BUTTONS AND THE REPLACEMENT OF LOOP DETECTORS.
2. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
3. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISIONS, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING, AND PATCHING OPERATIONS).
4. ALL PUSH BUTTONS SHALL BE APS.
5. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALKS.
6. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT BEFORE INSTALLATION WITH THE TRAFFIC SIGNAL ENGINEER.
7. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.

REMOVAL NOTES:

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

- 2 EACH PEDESTRIAN PUSH-BUTTON



MODEL: APS-01 (Sheet)
FILE NAME: c:\p\work\signal\control\p0931866\124022-sht-TS.dgn

**TS 2835
ECON 12**

USER NAME = Jacob.Roth	DESIGNED - BBB	REVISED - RV1
	DRAWN - CCC	REVISED - RV2
	CHECKED - AAA	REVISED - RV3
PLOT DATE = 8/10/2024	DATE - XX/XX/XX	REVISED - RV4

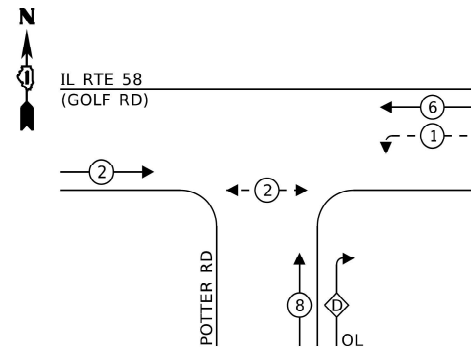
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**APS SIGNAL PLANS
IL ROUTE 58 (GOLF RD) - I-294 (TRI-STATE TOLLWAY) TO LINCOLN ST**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	FAP 0399 22 RS	COOK	51	23a
CONTRACT NO. 62T11				
ILLINOIS FED. AID PROJECT				

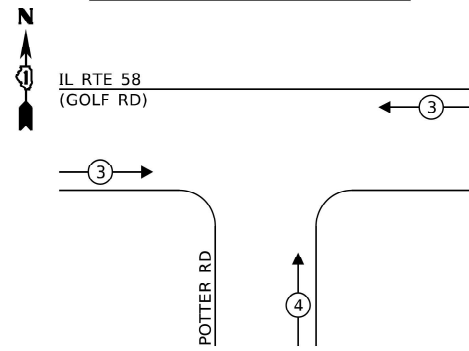
EXISTING CONTROLLER SEQUENCE



LEGEND:

- ⊙ - PROTECTED PHASE
- ⊙ - PROTECTED/PERMITTED PHASE
- ⊙ - PEDESTRIAN PHASE
- OL - OVERLAP

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
D	= 8	+ 1

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

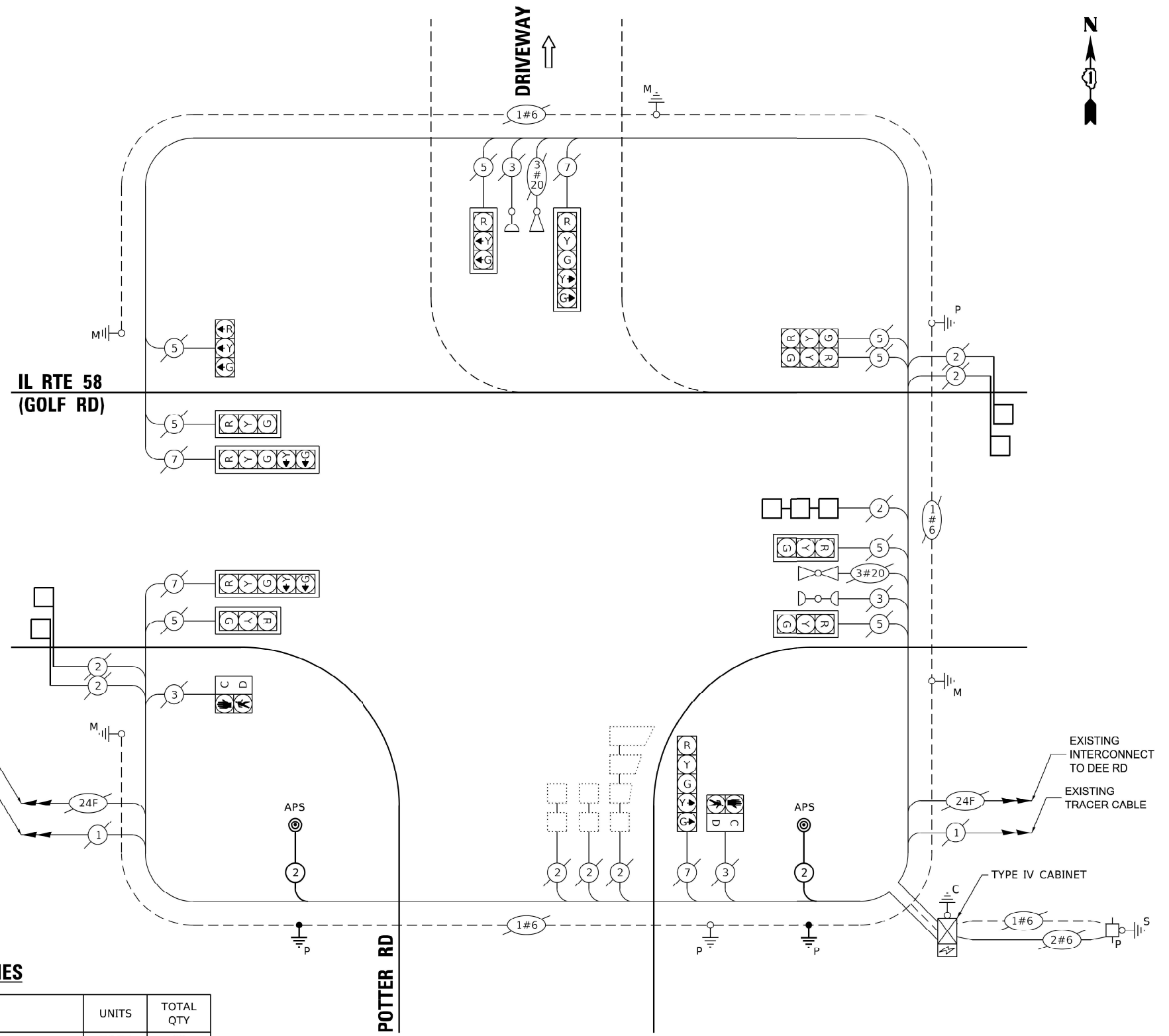
TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE	
SIGNAL HEAD	3 - SECTION	8	11	88.0
	4 - SECTION	-	14	-
	5 - SECTION	4	13	52.0
PROGRAMMABLE SIGNALS				
	3 - SECTION	-	22	-
	4 - SECTION	-	32	-
	5 - SECTION	-	28	-
PED. SIGNAL				
CONTROLLER	2	15	30.0	
MASTER CONTROLLER	1	150	150.0	
UPS	-	100	-	
DETECTION	1	25	25.0	
	RADAR	-	20	-
	VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-	
NETWORK SWITCH II OR III	-	35	-	
CELLULAR MODEM	-	15	-	
TOTAL UPS SIZING =			345.0	
UPS CHARGING	1	225	225.0	
BATTERY HEATER MAT	1	180	180.0	
CABINET HEATER	1	200	200.0	
FLASHER	-	15	-	
LED STREET NAME SIGN	-	120	-	
LUMINAIRE	-	240	-	
TOTAL SERVICE WIRE SIZING =			950.0	

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 W CENTER COURT
SCHAUMBURG, IL 60196-1096

ENFRGY SUPPLY: CONTACT: COMED NEW BUSINESS
PHONE: 630-424-5704
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: -

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	22
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	270
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	250
DRILL EXISTING H AND I OLC	EACH	2
DETECTOR LOOP, TYPE 1	FOOT	255
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	250
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	2
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	2
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	8
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1



CABLE PLAN
(NOT TO SCALE)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APS SIGNAL PLANS
IL ROUTE 58 (GOLF RD) - I-294 (TRI-STATE TOLLWAY) TO LINCOLN ST

TS 2835
ECON 12

USER NAME = Jacob.Roth	DESIGNED - BBB	REVISED - RV1	SCALE: SHEET 1 OF SHEETS STA. TO STA.	F.A.P. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO. 339 FAP 0399 22 RS COOK 51 23b
	DRAWN - CCC	REVISED - RV2		
	CHECKED - AAA	REVISED - RV3		
	DATE - XX/XX/XX	REVISED - RV4		
PLOT DATE = 8/10/2024	CONTRACT NO. 62T11			ILLINOIS FED. AID PROJECT

MODEL: APS-02 (Sheet)
FILE NAME: c:\p\work\wv\control\p\0931886\124022-4h-TS.dgn

NOTES:

1. THIS PLAN IS FOR THE INSTALLATION OF APS PUSH BUTTONS AND THE REPLACEMENT OF LOOP DETECTORS.
2. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
3. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISIONS, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING, AND PATCHING OPERATIONS).
4. ALL PUSH BUTTONS SHALL BE APS.
5. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALKS.
6. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT BEFORE INSTALLATION WITH THE TRAFFIC SIGNAL ENGINEER.
7. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
8. EXISTING LOOPS ON DEE RD SHALL BE MILLED AND REPLACED WITH VIDEO DETECTION AND LEAD-IN CABLE SHALL BE REMOVED.
9. VIDEO DETECTION SYSTEMS SHALL BE MOUNTED ON RISER BRACKETS AT THE LENGTH DETERMINED BY THE MANUFACTURER. FINAL CAMERA LOCATIONS SHALL BE OPTIMAL TO MINIMIZE OCCLUSION BASED FALSE CALLS FROM TRAFFIC IN ADJACENT LANES.

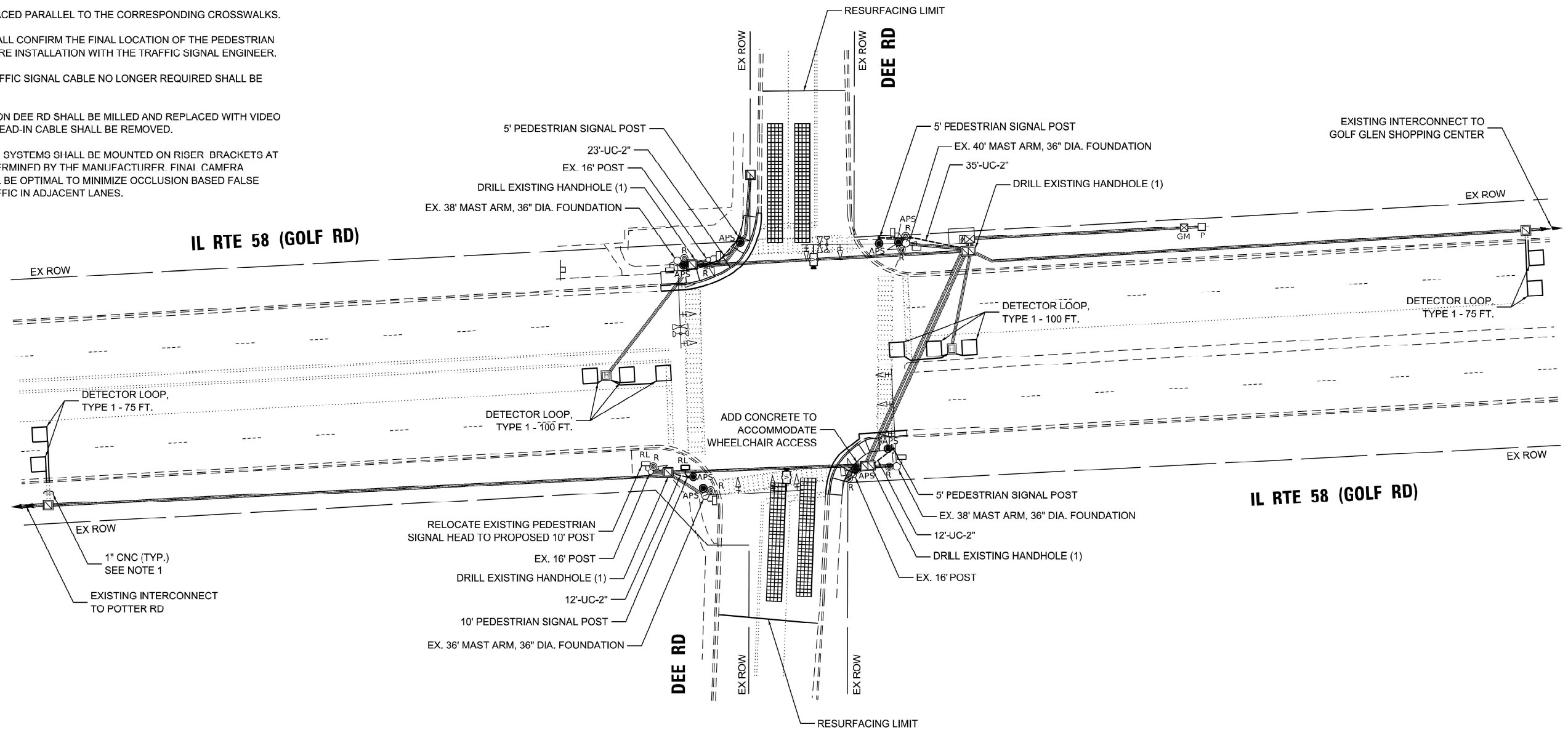
REMOVAL AND RELOCATION NOTES:

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

8 EACH PEDESTRIAN PUSH-BUTTON

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE RELOCATED TO THE PROPOSED TRAFFIC SIGNAL EQUIPMENT INDICATED IN THE PLAN.

1 EACH PEDESTRIAN SIGNAL HEAD

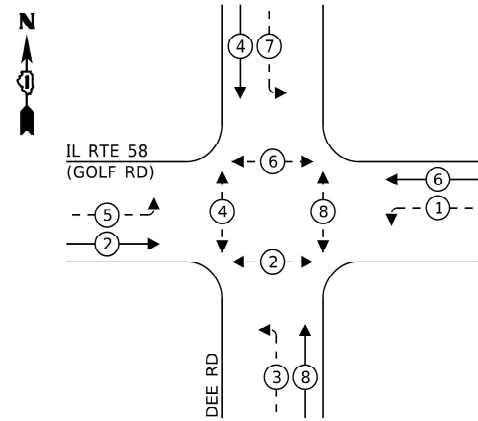


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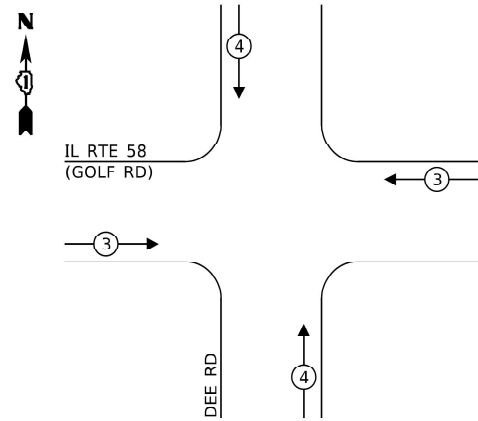
**TS 2750
ECON 12**

USER NAME = Jacob.Roth	DESIGNED - BBB	REVISED - RV1	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	APS SIGNAL PLANS			F.A.P. RTE. 339	SECTION FAP 0399 22 RS	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 24a
	DRAWN - CCC	REVISED - RV2		IL ROUTE 58 (GOLF RD) - I-294 (TRI-STATE TOLLWAY) TO LINCOLN ST			CONTRACT NO. 62T11				
	CHECKED - AAA	REVISED - RV3		SCALE:	SHEET 1	OF SHEETS	STA. TO STA.				
PLOT DATE = 8/10/2024	DATE - XX/XX/XX	REVISED - RV4		ILLINOIS FED. AID PROJECT							

EXISTING CONTROLLER SEQUENCE



**EXISTING EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



LEGEND:

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

**TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS**

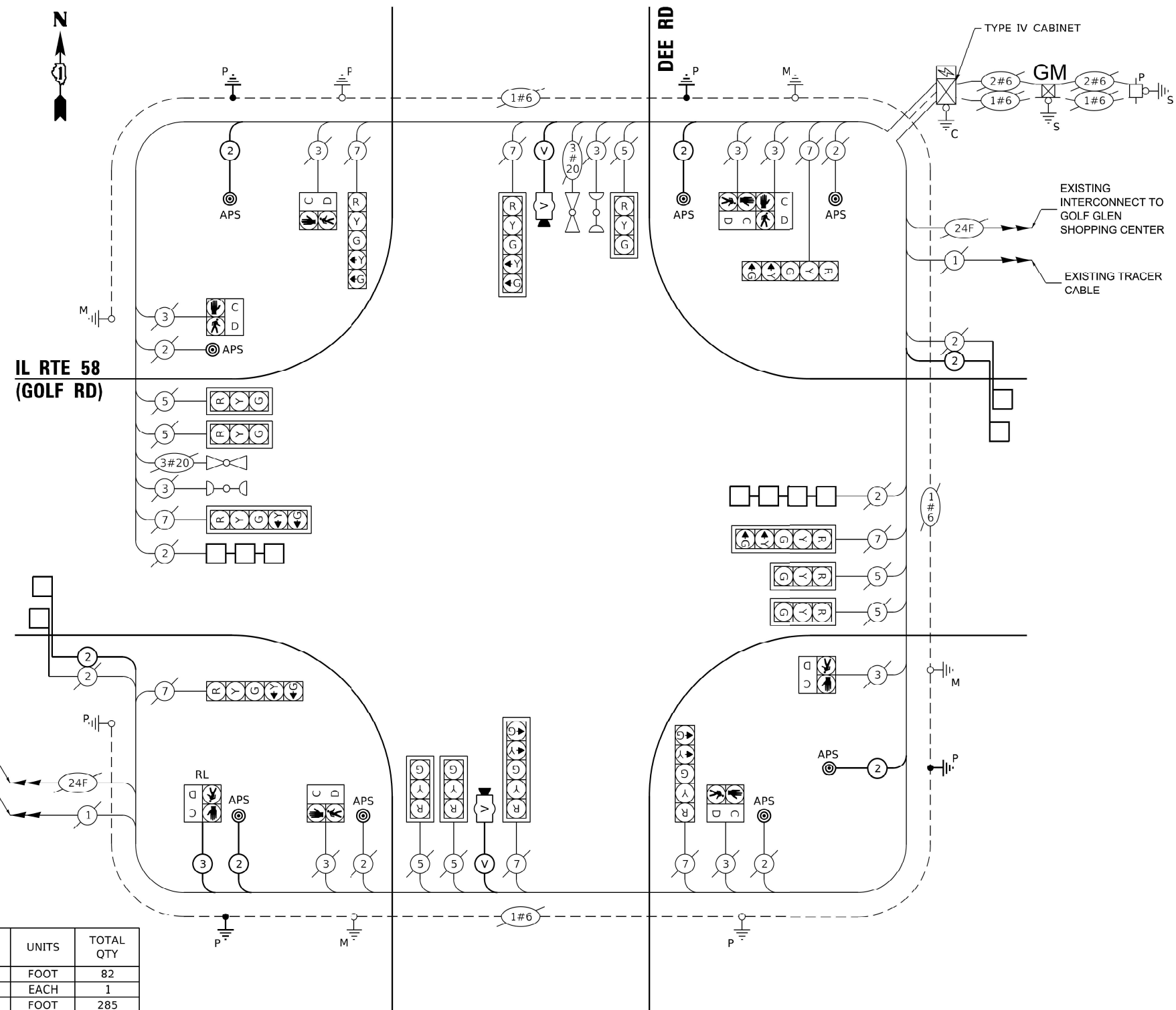
TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	3 - SECTION	7	11
	4 - SECTION	-	14
	5 - SECTION	8	13
			104.0
PROGRAMMABLE SIGNALS			
	3 - SECTION	-	22
	4 - SECTION	-	32
	5 - SECTION	-	28
PED. SIGNAL			
	8	15	120.0
CONTROLLER	1	150	150.0
MASTER CONTROLLER	-	100	-
UPS	1	25	25.0
DETECTION	RADAR	-	20
	VIDEO	2	20
			40.0
BLANK-OUT SIGN	-	25	-
NETWORK SWITH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING =			516.0
UPS CHARGING	1	225	225.0
BATTERY HEATER MAT	1	180	180.0
CABINET HEATER	1	200	200.0
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING =			1,121.0

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 W CENTER COURT
SCHAUMBURG, IL 60196-1096

ENFRGY SLIPPLY: CONTACT: COMED NEW BUSINESS
PHONE: 630-424-5704
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: -

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	82
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	285
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	150
ELECTRIC CABLE IN CONDUIT, LEAD-IN NO. 14 1 PAIR	FOOT	700
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	400
DRILL EXISTING HANDHOLE	EACH	4
INDUCTIVE LOOP DETECTOR	EACH	2
DETECTOR LOOP, TYPE 1	FOOT	350
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	780
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	3
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	16
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1



CABLE PLAN
(NOT TO SCALE)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APS SIGNAL PLANS
IL ROUTE 58 (GOLF RD) - I-294 (TRI-STATE TOLLWAY) TO LINCOLN ST
SCALE: SHEET 1 OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	FAP 0399 22 RS	COOK	51	24b
CONTRACT NO. 62T11				
ILLINOIS FED. AID PROJECT				

TS 2750
ECON 12

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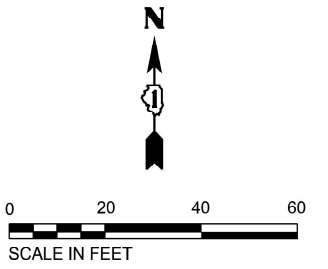
USER NAME = Jacob.Roth	DESIGNED - BBB	REVISED - RV1
	DRAWN - CCC	REVISED - RV2
	CHECKED - AAA	REVISED - RV3
PLOT DATE = 8/10/2024	DATE - XX/XX/XX	REVISED - RV4

NOTES:

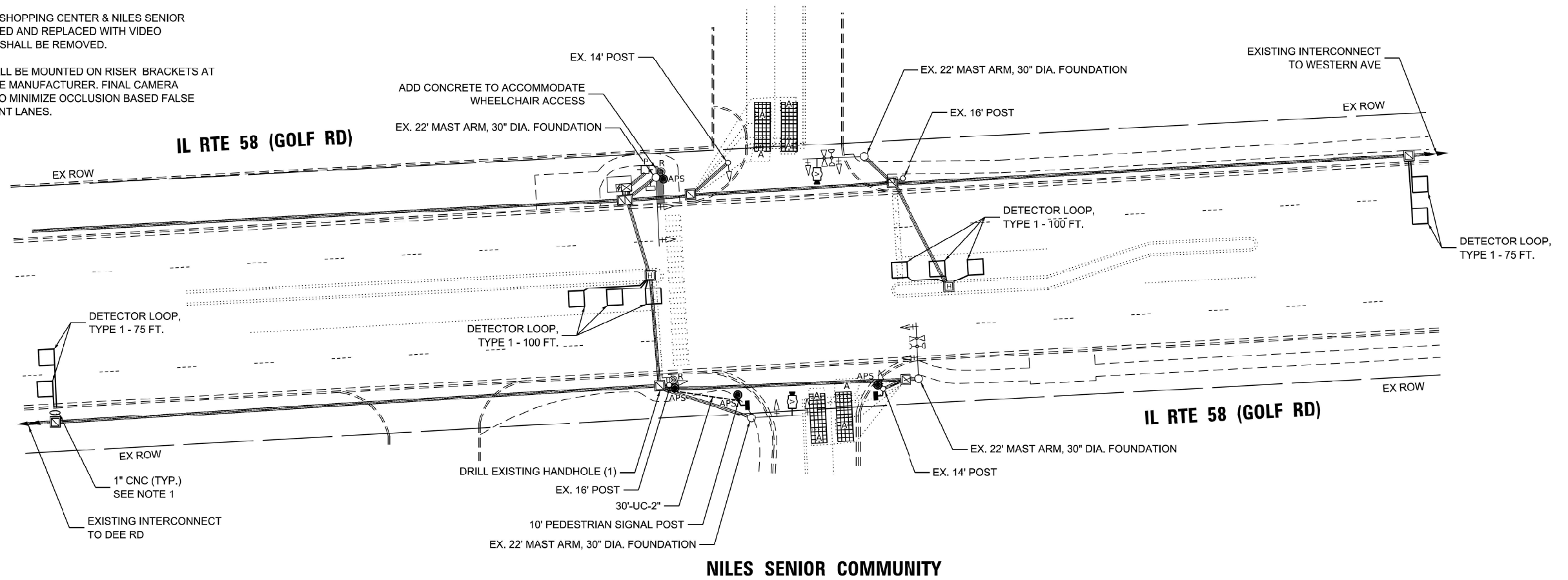
1. THIS PLAN IS FOR THE INSTALLATION OF APS PUSH BUTTONS AND THE REPLACEMENT OF LOOP DETECTORS.
2. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SIGNAL SPECIFICATIONS.
3. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISIONS, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING, AND PATCHING OPERATIONS).
4. ALL PUSH BUTTONS SHALL BE APS.
5. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALKS.
6. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT BEFORE INSTALLATION WITH THE TRAFFIC SIGNAL ENGINEER.
7. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
8. EXISTING LOOPS ON GOLF GLEN SHOPPING CENTER & NILES SENIOR COMMUNITY SHALL BE ABANDONED AND REPLACED WITH VIDEO DETECTION, AND LEAD-IN CABLE SHALL BE REMOVED.
9. VIDEO DETECTION SYSTEMS SHALL BE MOUNTED ON RISER BRACKETS AT THE LENGTH DETERMINED BY THE MANUFACTURER. FINAL CAMERA LOCATIONS SHALL BE OPTIMAL TO MINIMIZE OCCLUSION BASED FALSE CALLS FROM TRAFFIC IN ADJACENT LANES.

REMOVAL NOTES:

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



GOLF GLEN SHOPPING CENTER



NILES SENIOR COMMUNITY

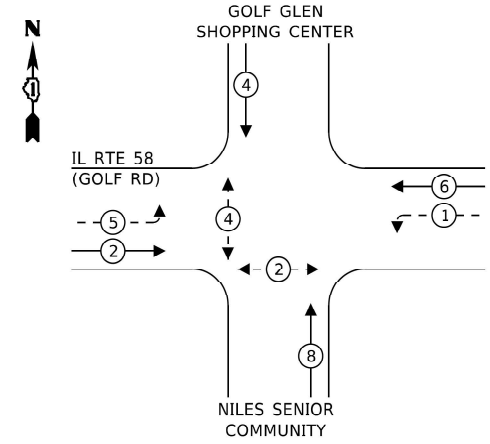
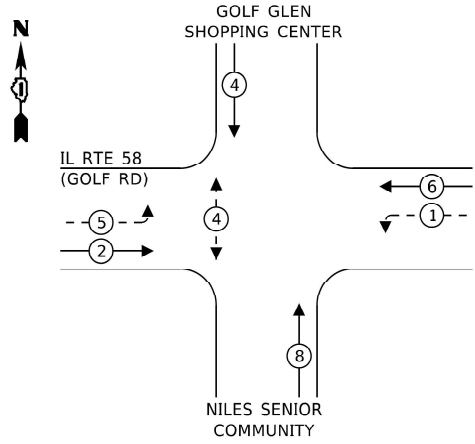
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**TS 21125
ECON 12**

USER NAME = Jacob.Roth	DESIGNED - BBB	REVISED - RV1	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	APS SIGNAL PLANS			F.A.P. RTE. 339	SECTION FAP 0399 22 RS	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 25a	
	DRAWN - CCC	REVISED - RV2		IL ROUTE 58 (GOLF RD) - I-294 (TRI-STATE TOLLWAY) TO LINCOLN ST			CONTRACT NO. 62T11					
	CHECKED - AAA	REVISED - RV3		SCALE:	SHEET 1	OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT				
PLOT DATE = 8/10/2024	DATE - XX/XX/XX	REVISED - RV4										

EXISTING CONTROLLER SEQUENCE

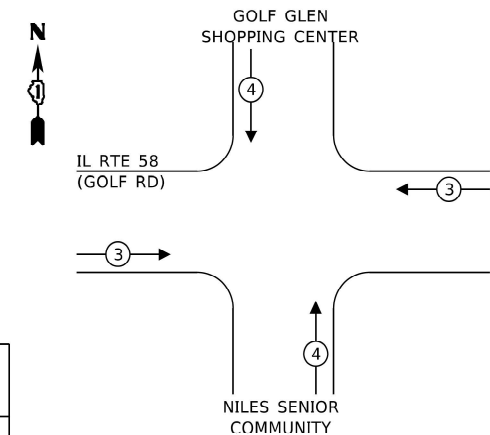
PROPOSED CONTROLLER SEQUENCE



LEGEND:

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

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE	
SIGNAL HEAD	3 - SECTION	8	11	88.0
	4 - SECTION	-	14	-
	5 - SECTION	4	13	52.0
PROGRAMMABLE SIGNALS				
	3 - SECTION	-	22	-
	4 - SECTION	-	32	-
	5 - SECTION	-	28	-
PED. SIGNAL				
CONTROLLER	4	15	60.0	
MASTER CONTROLLER	1	150	150.0	
UPS	1	25	25.0	
DETECTION	RADAR	-	20	-
	VIDEO	2	20	40.0
BLANK-OUT SIGN	-	25	-	
NETWORK SWITCH II OR III	-	35	-	
CELLULAR MODEM	-	15	-	
TOTAL UPS SIZING = 415.0				
UPS CHARGING	1	225	225.0	
BATTERY HEATER MAT	1	180	180.0	
CABINET HEATER	1	200	200.0	
FLASHER	-	15	-	
LED STREET NAME SIGN	-	120	-	
LUMINAIRE	-	240	-	
TOTAL SERVICE WIRE SIZING = 1,020.0				

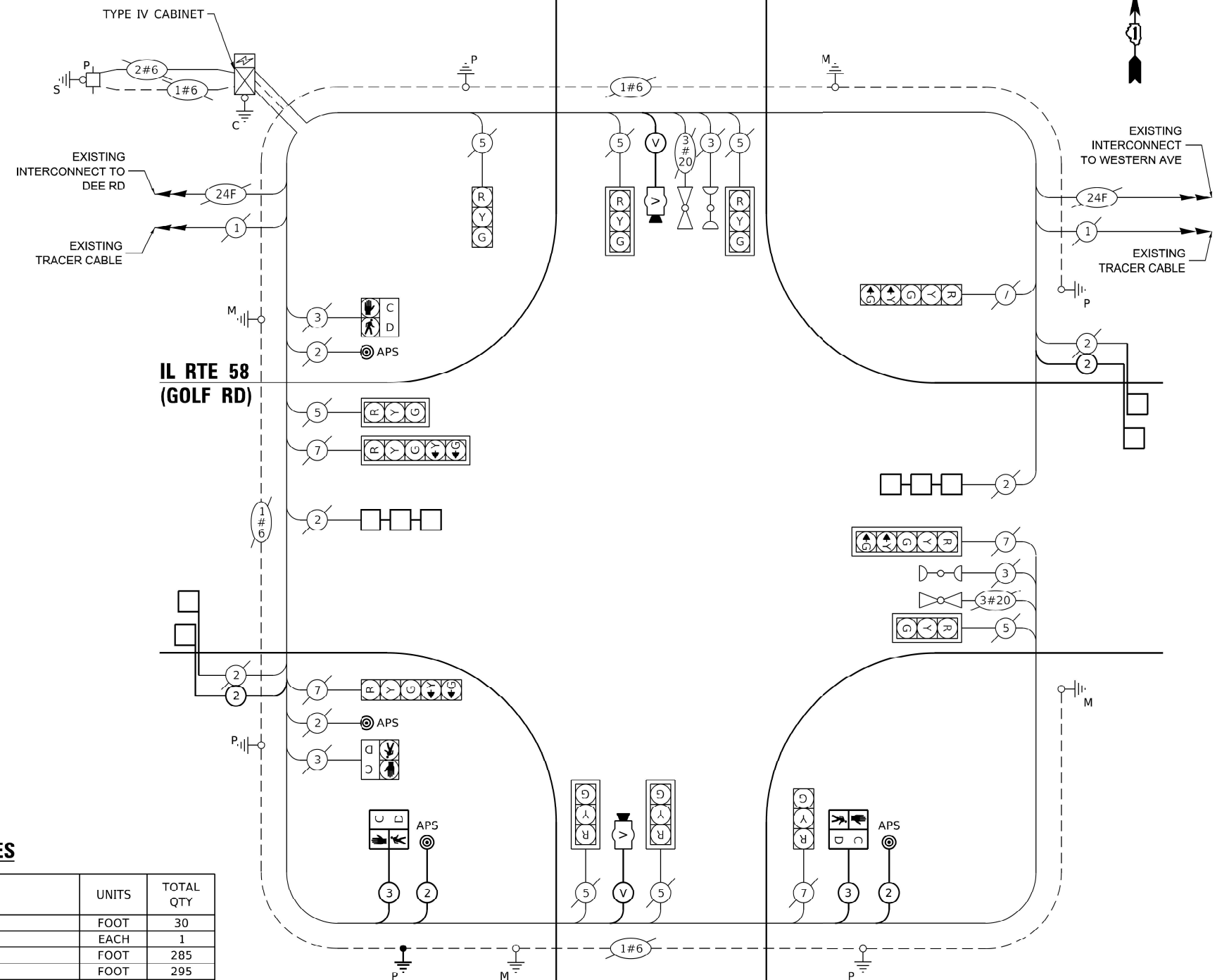
ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 W CENTER COURT
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: COMED NEW BUSINESS
PHONE: 630-424-5704
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: -

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	30
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	285
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	295
ELECTRIC CABLE IN CONDUIT, LEAD-IN NO. 14 1 PAIR	FOOT	660
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	95
DRILL EXISTING HANDHOLE	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
INDUCTIVE LOOP DETECTOR	EACH	2
DETECTOR LOOP, TYPE 1	FOOT	350
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	400
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	4
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

GOLF GLEN SHOPPING CENTER



NILES SENIOR COMMUNITY

CABLE PLAN (NOT TO SCALE)

MODEL: APS-06 (Sheet)
FILE NAME: c:\p\work\wv\control\p\0931886D124022-4h-TS.dgn

USER NAME = Jacob.Roth	DESIGNED - BBB	REVISED - RV1
	DRAWN - CCC	REVISED - RV2
	CHECKED - AAA	REVISED - RV3
PLOT DATE = 8/10/2024	DATE - XX/XX/XX	REVISED - RV4

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

APS SIGNAL PLANS
IL ROUTE 58 (GOLF RD) - I-294 (TRI-STATE TOLLWAY) TO LINCOLN ST
SCALE: SHEET 1 OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	FAP 0399 22 RS	COOK	51	25b
CONTRACT NO. 62T11				
ILLINOIS FED. AID PROJECT				

**TS 21125
ECON 12**

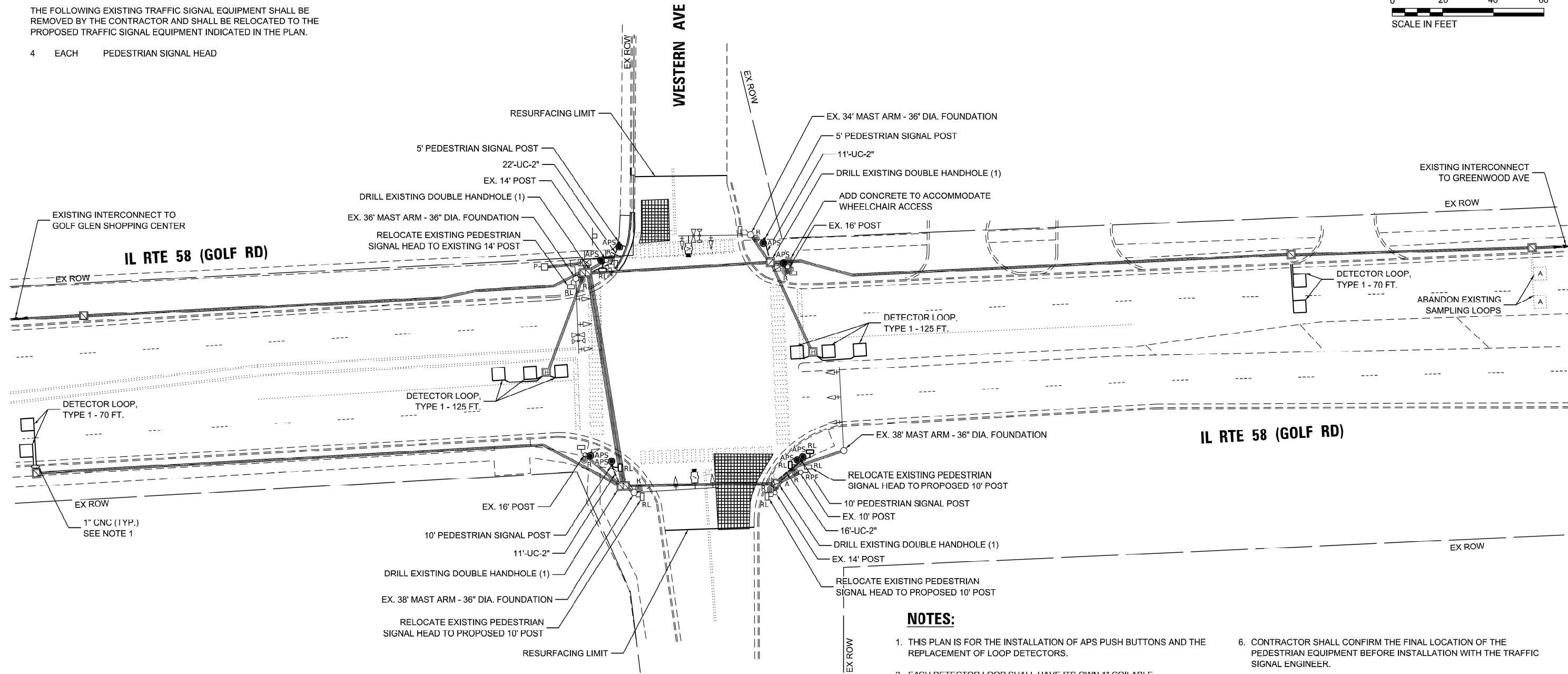
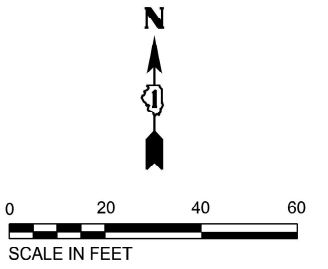
REMOVAL AND RELOCATION NOTES:

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

- 1 EACH TRAFFIC SIGNAL POST
- 8 EACH PEDESTRIAN PUSH-BUTTON

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE RELOCATED TO THE PROPOSED TRAFFIC SIGNAL EQUIPMENT INDICATED IN THE PLAN.

- 4 EACH PEDESTRIAN SIGNAL HEAD



NOTES:

1. THIS PLAN IS FOR THE INSTALLATION OF APS PUSH BUTTONS AND THE REPLACEMENT OF LOOP DETECTORS.
2. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
3. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISIONS, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING, AND PATCHING OPERATIONS).
4. ALL PUSH BUTTONS SHALL BE APS.
5. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALKS.
6. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT BEFORE INSTALLATION WITH THE TRAFFIC SIGNAL ENGINEER.
7. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
8. EXISTING LOOPS ON WESTERN AVE SHALL BE MILLED AND REPLACED WITH VIDEO DETECTION AND LEAD-IN CABLE SHALL BE REMOVED.
9. VIDEO DETECTION SYSTEMS SHALL BE MOUNTED ON RISER BRACKETS AT THE LENGTH DETERMINED BY THE MANUFACTURER. FINAL CAMERA LOCATIONS SHALL BE OPTIMAL TO MINIMIZE OCCLUSION BASED FALSE CALLS FROM TRAFFIC IN ADJACENT LANES.

MODEL: APS-07 (Sheet)
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USER NAME = Jacob.Roth	DESIGNED - BBB	REVISED - RV1
	DRAWN - CCC	REVISED - RV2
	CHECKED - AAA	REVISED - RV3
PLOT DATE = 8/10/2024	DATE - XX/XX/XX	REVISED - RV4

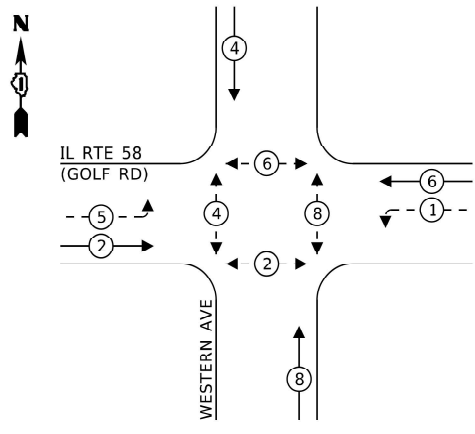
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

APS SIGNAL PLANS
IL ROUTE 58 (GOLF RD) - I-294 (TRI-STATE TOLLWAY) TO LINCOLN ST

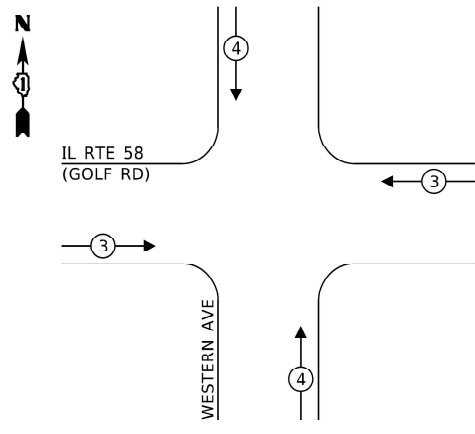
F.A.P. RTE. 339	SECTION FAP 0399 22 RS	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 26a
CONTRACT NO. 62T11				
ILLINOIS FED. AID PROJECT				

**TS 2855
ECON 12**

EXISTING CONTROLLER SEQUENCE



**EXISTING EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



LEGEND:

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

**TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS**

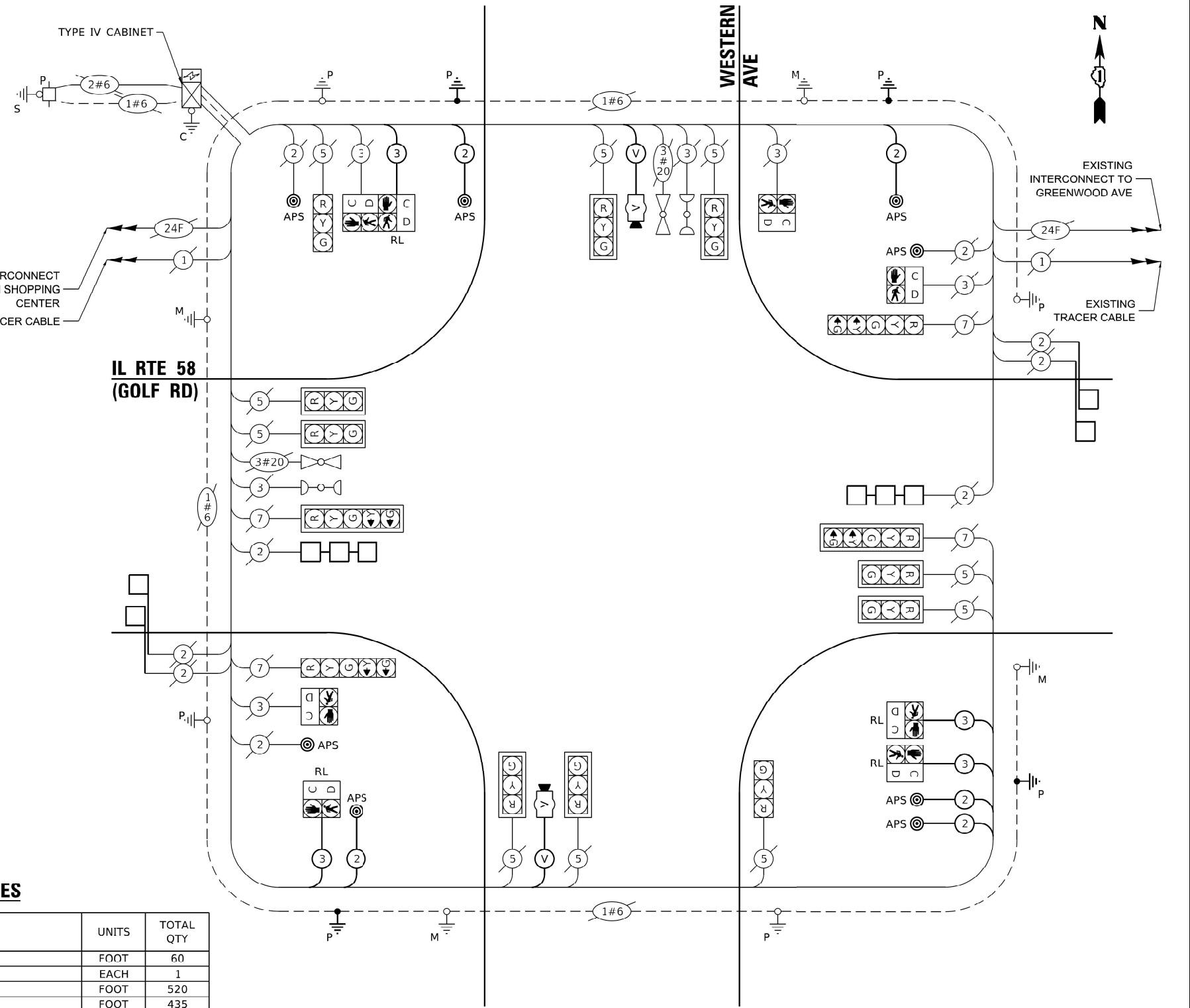
TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE	
SIGNAL HEAD	3 - SECTION	10	11	110.0
	4 - SECTION	-	14	-
	5 - SECTION	4	13	52.0
PROGRAMMABLE SIGNALS				
	3 - SECTION	-	22	-
	4 - SECTION	-	32	-
	5 - SECTION	-	28	-
PED. SIGNAL	8	15	120.0	
CONTROLLER	1	150	150.0	
MASTER CONTROLLER	-	100	-	
UPS	1	25	25.0	
DETECTION	RADAR	-	20	-
	VIDEO	2	20	40.0
BLANK-OUT SIGN	-	25	-	
NETWORK SWITCH II OR III	-	35	-	
CELLULAR MODEM	-	15	-	
TOTAL UPS SIZING =			497.0	
UPS CHARGING	1	225	225.0	
BATTERY HEATER MAT	1	180	180.0	
CABINET HEATER	1	200	200.0	
FLASHER	-	15	-	
LED STREET NAME SIGN	-	120	-	
LUMINAIRE	-	240	-	
TOTAL SERVICE WIRE SIZING =			1,102.0	

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 W CENTER COURT
SCHAUMBURG, IL 60196-1096

ENFRGY SUPPLY: CONTACT: COMED NEW BUSINESS
PHONE: 630-424-5704
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: -

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	60
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	520
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	435
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	290
DRILL EXISTING HANDHOLE	EACH	4
DETECTOR LOOP, TYPE 1	FOOT	390
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	4
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1070
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	2
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	2
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	16
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1



CABLE PLAN
(NOT TO SCALE)

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

APS SIGNAL PLANS
IL ROUTE 58 (GOLF RD) - I-294 (TRI-STATE TOLLWAY) TO LINCOLN ST

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	FAP 0399 22 RS	COOK	51	26b
CONTRACT NO. 62T11				

**TS 2855
ECON 12**

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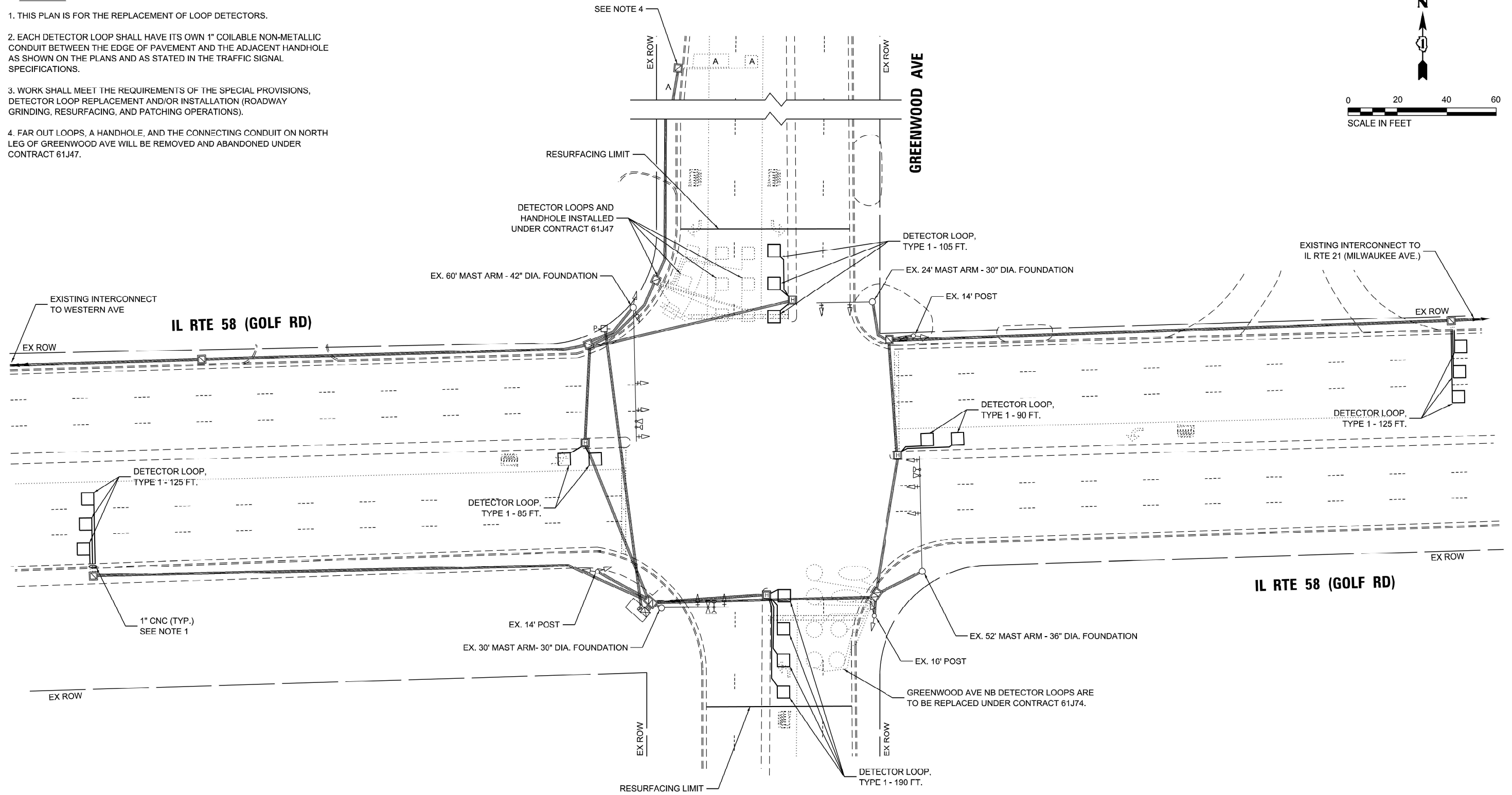
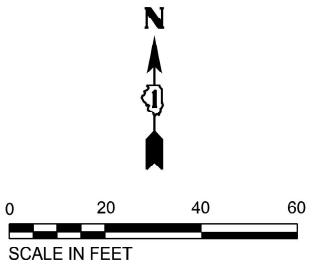
USER NAME = Jacob.Roth	DESIGNED - BBB	REVISED - RV1
	DRAWN - CCC	REVISED - RV2
	CHECKED - AAA	REVISED - RV3
PLOT DATE = 8/10/2024	DATE - XX/XX/XX	REVISED - RV4

SCALE: SHEET 1 OF SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT

NOTES:

1. THIS PLAN IS FOR THE REPLACEMENT OF LOOP DETECTORS.
2. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
3. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISIONS, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING, AND PATCHING OPERATIONS).
4. FAR OUT LOOPS, A HANDHOLE, AND THE CONNECTING CONDUIT ON NORTH LEG OF GREENWOOD AVE WILL BE REMOVED AND ABANDONED UNDER CONTRACT 61J47.



MODEL: APS-09 [Sheet]
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**TS 2775
ECON 12**

USER NAME = Jacob.Roth	DESIGNED - BBB	REVISED - RV1
	DRAWN - CCC	REVISED - RV2
	CHECKED - AAA	REVISED - RV3
PLOT DATE = 8/10/2024	DATE - XX/XX/XX	REVISED - RV4

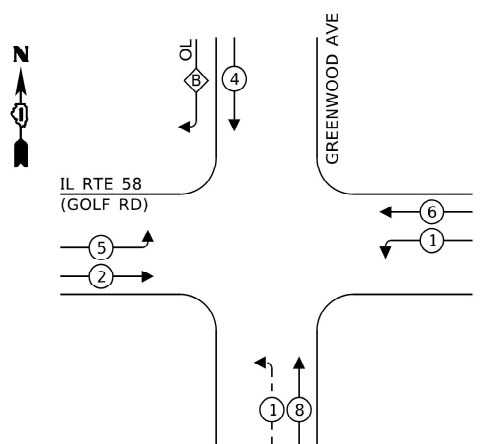
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**APS SIGNAL PLANS
IL ROUTE 58 (GOLF RD) - I-294 (TRI-STATE TOLLWAY) TO LINCOLN ST**

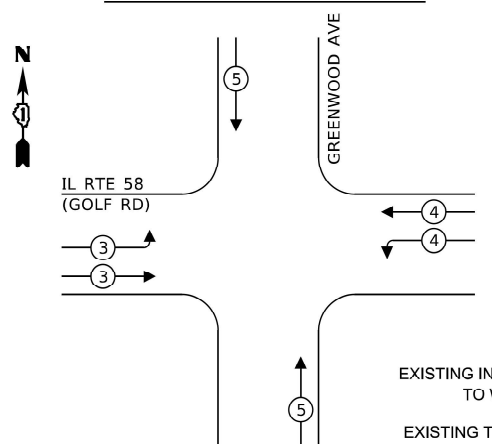
SCALE: SHEET 1 OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	FAP 0399 22 RS	COOK	51	27a
CONTRACT NO. 62T11				
ILLINOIS FED. AID PROJECT				

EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

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

RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4	+ 5

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE	
SIGNAL HEAD	3 - SECTION	12	11	132.0
	4 - SECTION	-	14	-
	5 - SECTION	6	13	78.0
PROGRAMMABLE SIGNALS				
	3 - SECTION	-	22	-
	4 - SECTION	-	32	-
	5 - SECTION	-	28	-
PED. SIGNAL				
CONTROLLER	1	150	150.0	
MASTER CONTROLLER	-	100	-	
UPS	1	25	25.0	
DETECTION	RADAR	-	20	-
	VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-	
NETWORK SWITCH II OR III	1	35	35.0	
CELLULAR MODEM	1	15	15.0	
TOTAL UPS SIZING = 435.0				
UPS CHARGING	1	225	225.0	
BATTERY HEATER MAT	1	180	180.0	
CABINET HEATER	1	200	200.0	
FLASHER	-	15	-	
LED STREET NAME SIGN	-	120	-	
LUMINAIRE	-	240	-	
TOTAL SERVICE WIRE SIZING = 1,040.0				

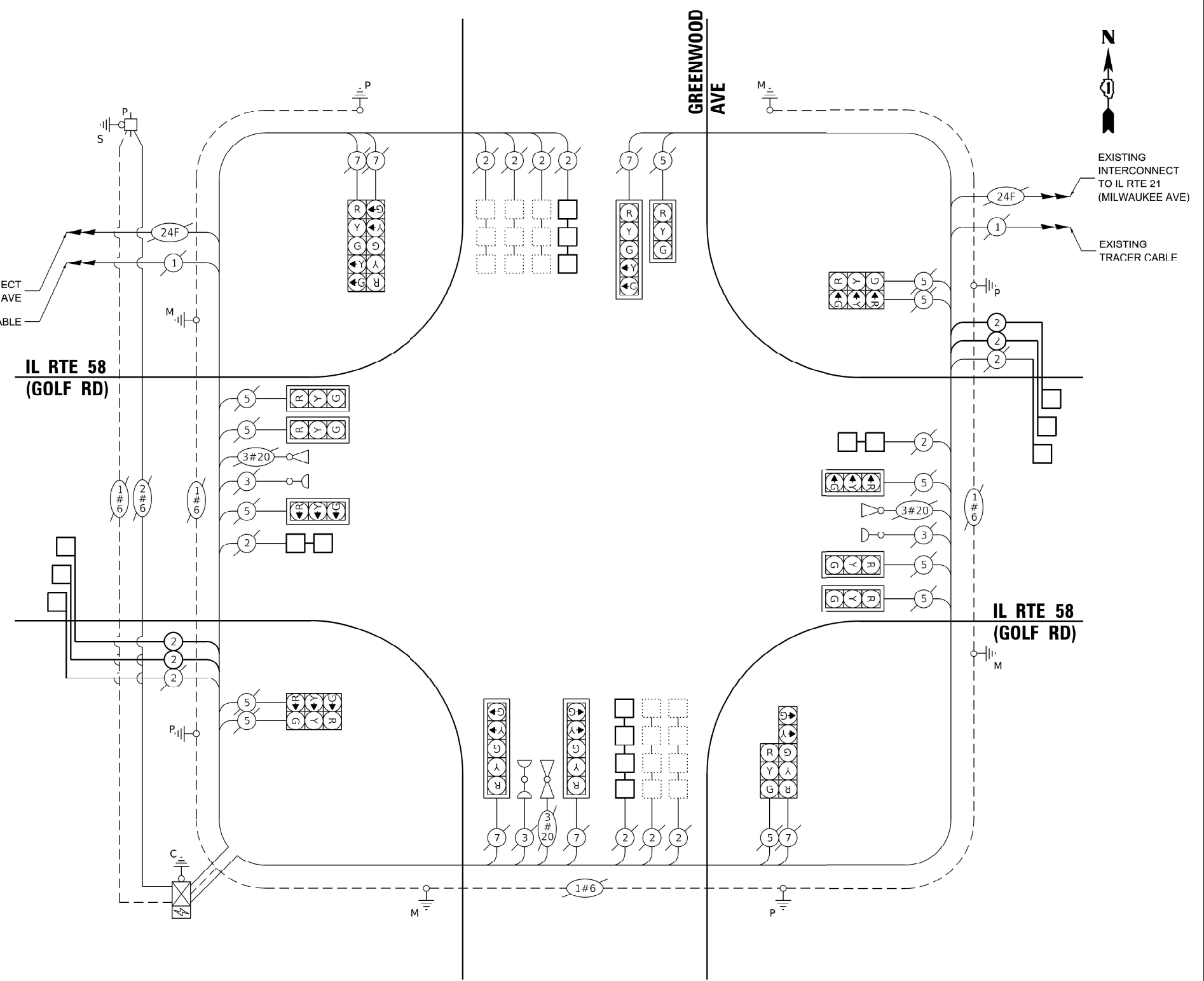
ENERGY COSTS TO:
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 201 W CENTER COURT
 SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: COMED NEW BUSINESS
 PHONE: 630-424-5704
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: -

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,700
INDUCTIVE LOOP DETECTOR	EACH	4
DETECTOR LOOP, TYPE 1	FOOT	725

IL RTE 58 (GOLF RD)



CABLE PLAN (NOT TO SCALE)

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

APS SIGNAL PLANS IL ROUTE 58 (GOLF RD) - I-294 (TRI-STATE TOLLWAY) TO LINCOLN ST

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	FAP 0399 22 RS	COOK	51	27b
CONTRACT NO. 62T11				

TS 2775 ECON 12

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USER NAME = Jacob.Roth	DESIGNED - BBB	REVISED - RV1
	DRAWN - CCC	REVISED - RV2
	CHECKED - AAA	REVISED - RV3
PLOT DATE = 8/10/2024	DATE - XX/XX/XX	REVISED - RV4

SCALE: SHEET 1 OF SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT

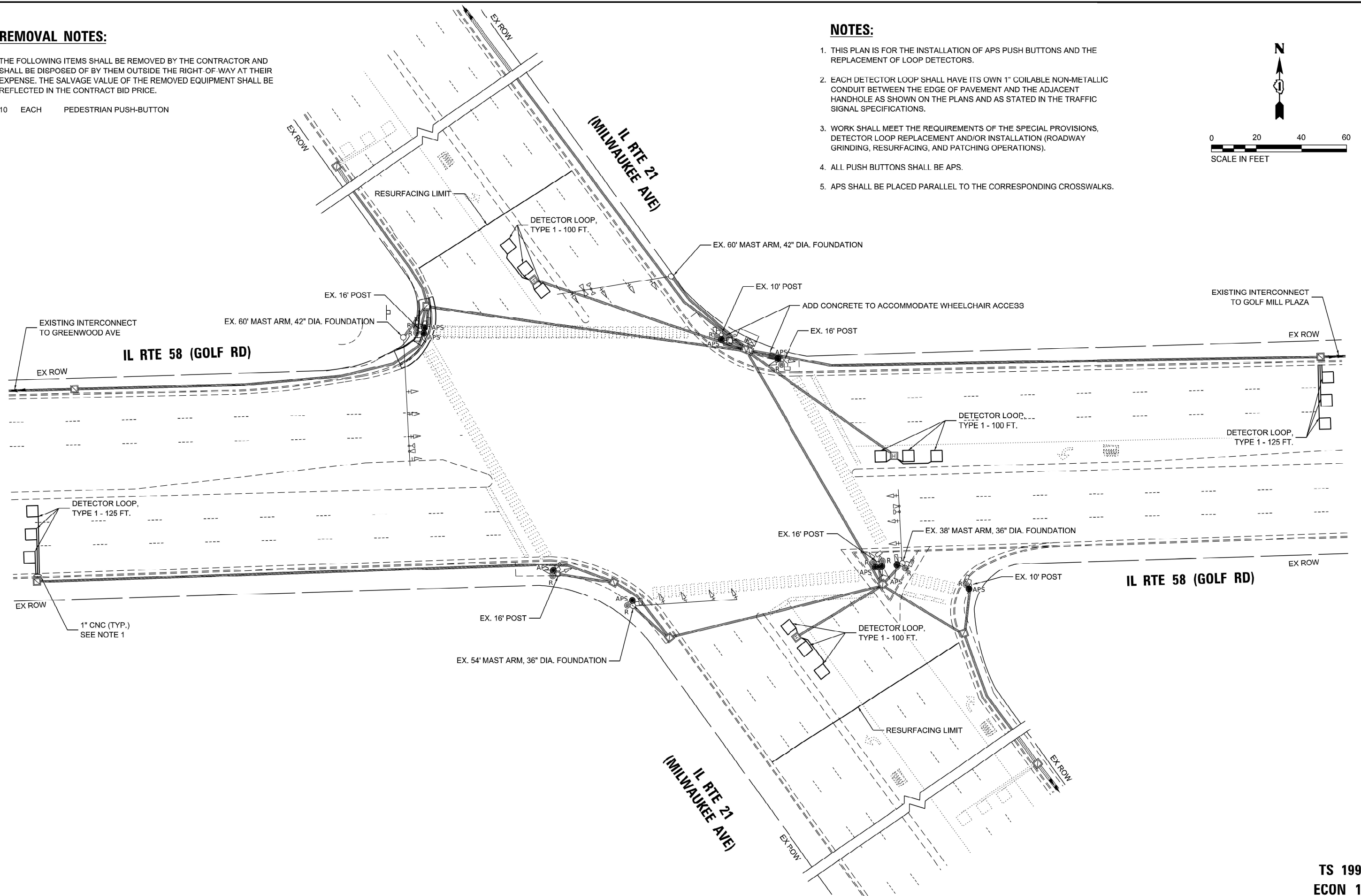
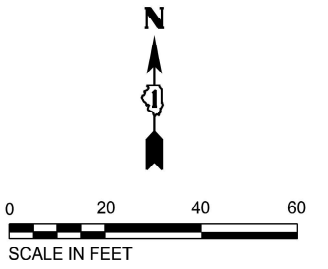
REMOVAL NOTES:

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

10 EACH PEDESTRIAN PUSH-BUTTON

NOTES:

1. THIS PLAN IS FOR THE INSTALLATION OF APS PUSH BUTTONS AND THE REPLACEMENT OF LOOP DETECTORS.
2. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
3. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISIONS, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING, AND PATCHING OPERATIONS).
4. ALL PUSH BUTTONS SHALL BE APS.
5. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALKS.



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**TS 1995
ECON 12**

USER NAME = Jacob.Roth	DESIGNED - BBB	REVISED - RV1
	DRAWN - CCC	REVISED - RV2
	CHECKED - AAA	REVISED - RV3
PLOT DATE = 8/10/2024	DATE - XX/XX/XX	REVISED - RV4

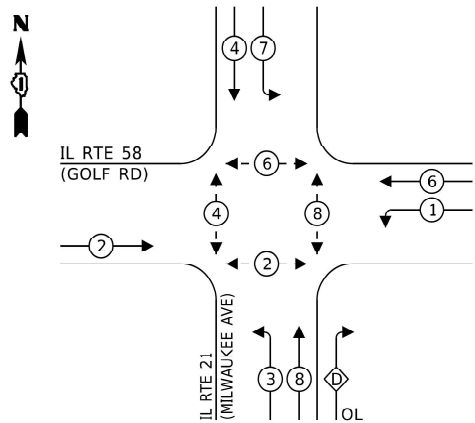
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**APS SIGNAL PLANS
IL ROUTE 58 (GOLF RD) - I-294 (TRI-STATE TOLLWAY) TO LINCOLN ST**

SCALE: SHEET 1 OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	FAP 0399 22 RS	COOK	51	28a
CONTRACT NO. 62T11				
ILLINOIS FED. AID PROJECT				

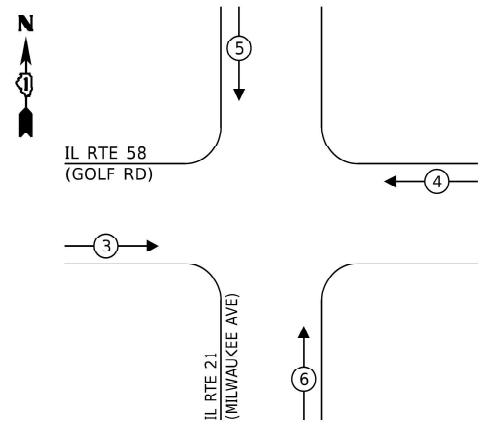
EXISTING CONTROLLER SEQUENCE



LEGEND:

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

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



RIGHT TURN OVERLAP

PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
D	= 8	+ 1

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

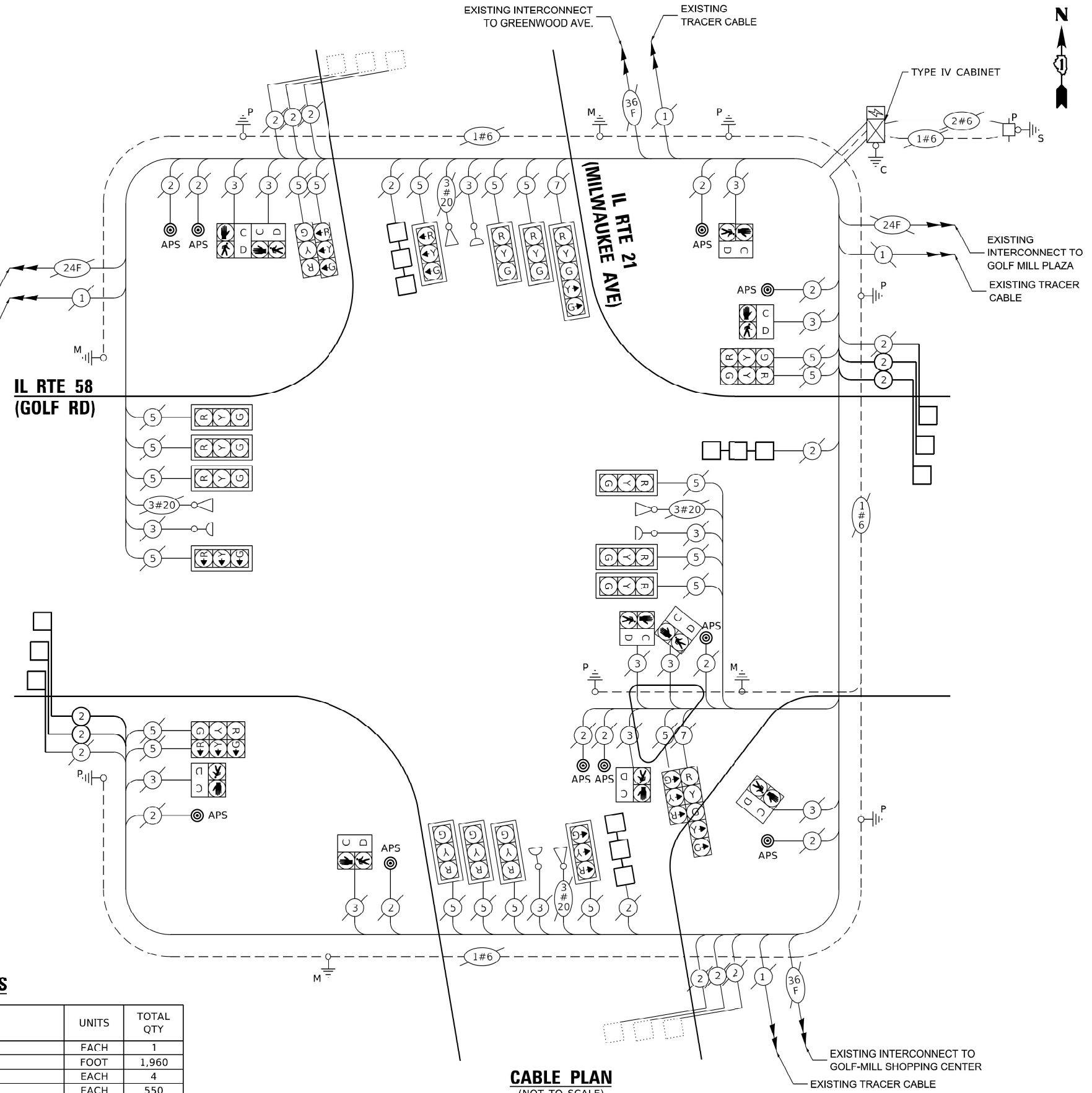
TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE	
SIGNAL HEAD	3 - SECTION	21	11	231.0
	4 - SECTION	-	14	-
	5 - SECTION	2	13	26.0
PROGRAMMABLE SIGNALS				
	3 - SECTION	-	22	-
	4 - SECTION	-	32	-
	5 - SECTION	-	28	-
PED. SIGNAL	8	15	120.0	
CONTROLLER	1	150	150.0	
MASTER CONTROLLER	-	100	-	
UPS	1	25	25.0	
DETECTION	RADAR	-	20	-
	VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-	
NETWORK SWITCH II OR III	-	35	-	
CELLULAR MODEM	-	15	-	
TOTAL UPS SIZING =			552.0	
UPS CHARGING	1	225	225.0	
BATTERY HEATER MAT	1	180	180.0	
CABINET HEATER	1	200	200.0	
FLASHER	-	15	-	
LED STREET NAME SIGN	-	120	-	
LUMINAIRE	-	240	-	
TOTAL SERVICE WIRE SIZING =			1,157.0	

ENERGY COSTS TO:
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 201 W CENTER COURT
 SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: COMED NEW BUSINESS
 PHONE: 630-424-5704
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: -

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	FACH	1
ELECTRIC CABLE IN CONDUIT, LEAD-IN NO. 14 1 PAIR	FOOT	1,960
INDUCTIVE LOOP DETECTOR	EACH	4
DETECTOR LOOP, TYPE 1	EACH	550
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	FOOT	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	10
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	FOOT	1



CABLE PLAN
(NOT TO SCALE)

MODEL: APS-12 (Sheet)
FILE NAME: c:\p\work\control\p0931866\124022-ah-ts.dgn

USER NAME = Jacob.Roth	DESIGNED - BBB	REVISED - RV1
	DRAWN - CCC	REVISED - RV2
	CHECKED - AAA	REVISED - RV3
PLOT DATE = 8/10/2024	DATE - XX/XX/XX	REVISED - RV4

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

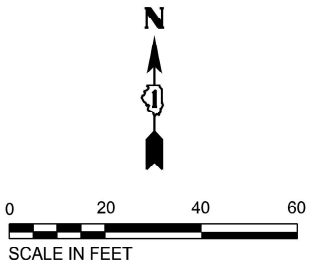
APS SIGNAL PLANS			
IL ROUTE 58 (GOLF RD) - I-294 (TRI-STATE TOLLWAY) TO LINCOLN ST			
SCALE:	SHEET 1	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	FAP 0399 22 RS	COOK	51	28b
CONTRACT NO. 62T11				
ILLINOIS FED. AID PROJECT				

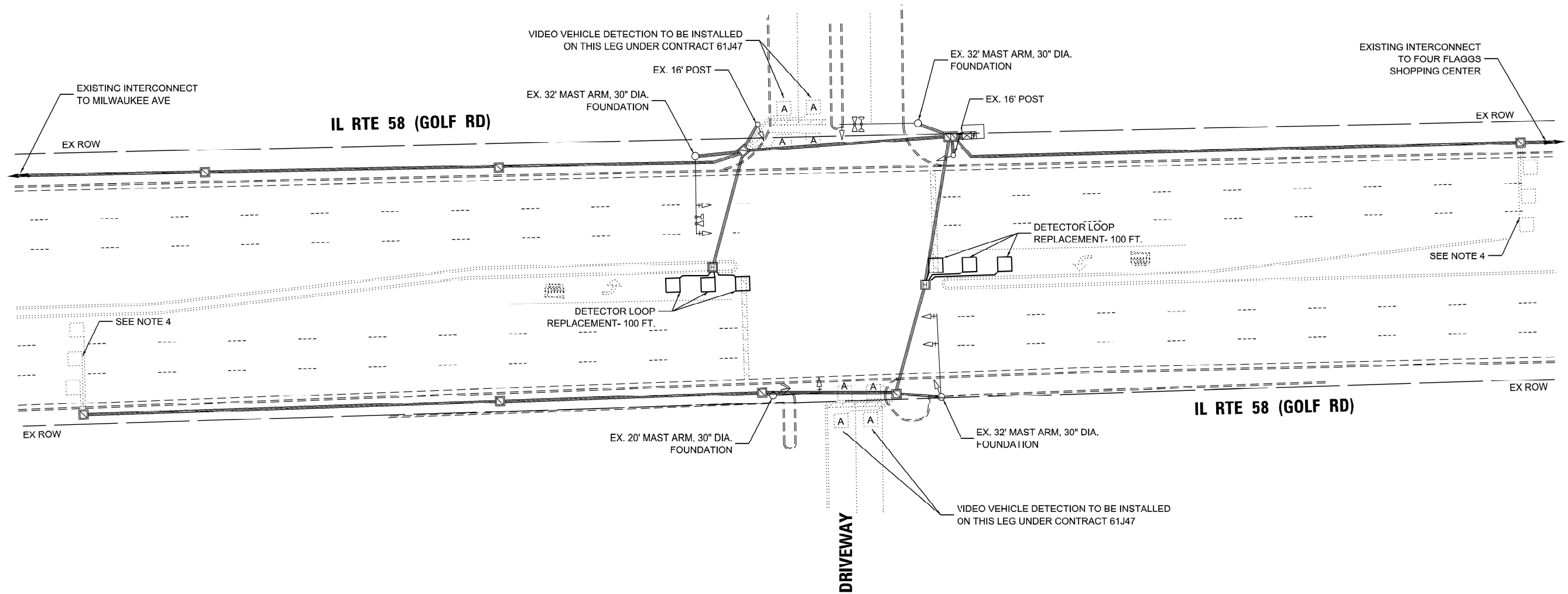
TS 1995
ECON 12

NOTES:

1. THIS PLAN IS FOR THE REPLACEMENT OF LOOP DETECTORS.
2. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
3. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISIONS, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING, AND PATCHING OPERATIONS).
4. EASTBOUND AND WESTBOUND FAR OUT LOOPS ARE TO BE REPLACED UNDER CONTRACT 61J74, AND THE CONTRACTOR SHALL COORDINATE WITH CONTRACT 61J74 REGARDING THESE LOOPS.



GOLF MILL PLAZA

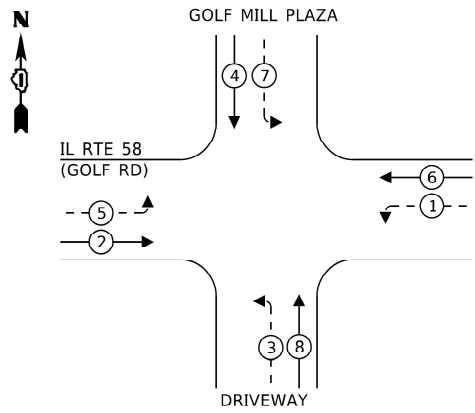


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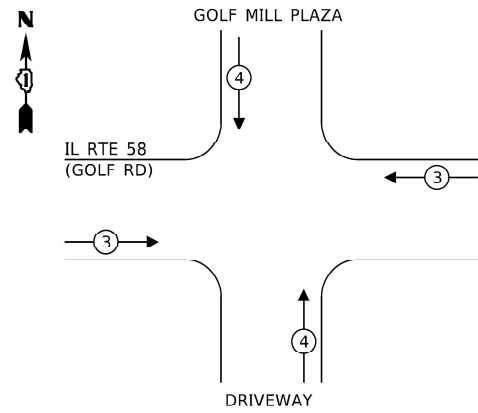
**TS 11210
ECON 12**

USER NAME = Jacob.Roth DESIGNED - BBB DRAWN - CCC CHECKED - AAA PLOT DATE = 8/10/2024				REVISED - RV1 REVISED - RV2 REVISED - RV3 REVISED - RV4				STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				APS SIGNAL PLANS IL ROUTE 58 (GOLF RD) - I-294 (TRI-STATE TOLLWAY) TO LINCOLN ST				F.A.P. RTE. 339 SECTION FAP 0399 22 RS COUNTY COOK TOTAL SHEETS 51 SHEET NO. 28c		CONTRACT NO. 62T11 ILLINOIS FED. AID PROJECT	
SCALE:		SHEET 1		OF SHEETS		STA.		TO STA.											

EXISTING CONTROLLER SEQUENCE



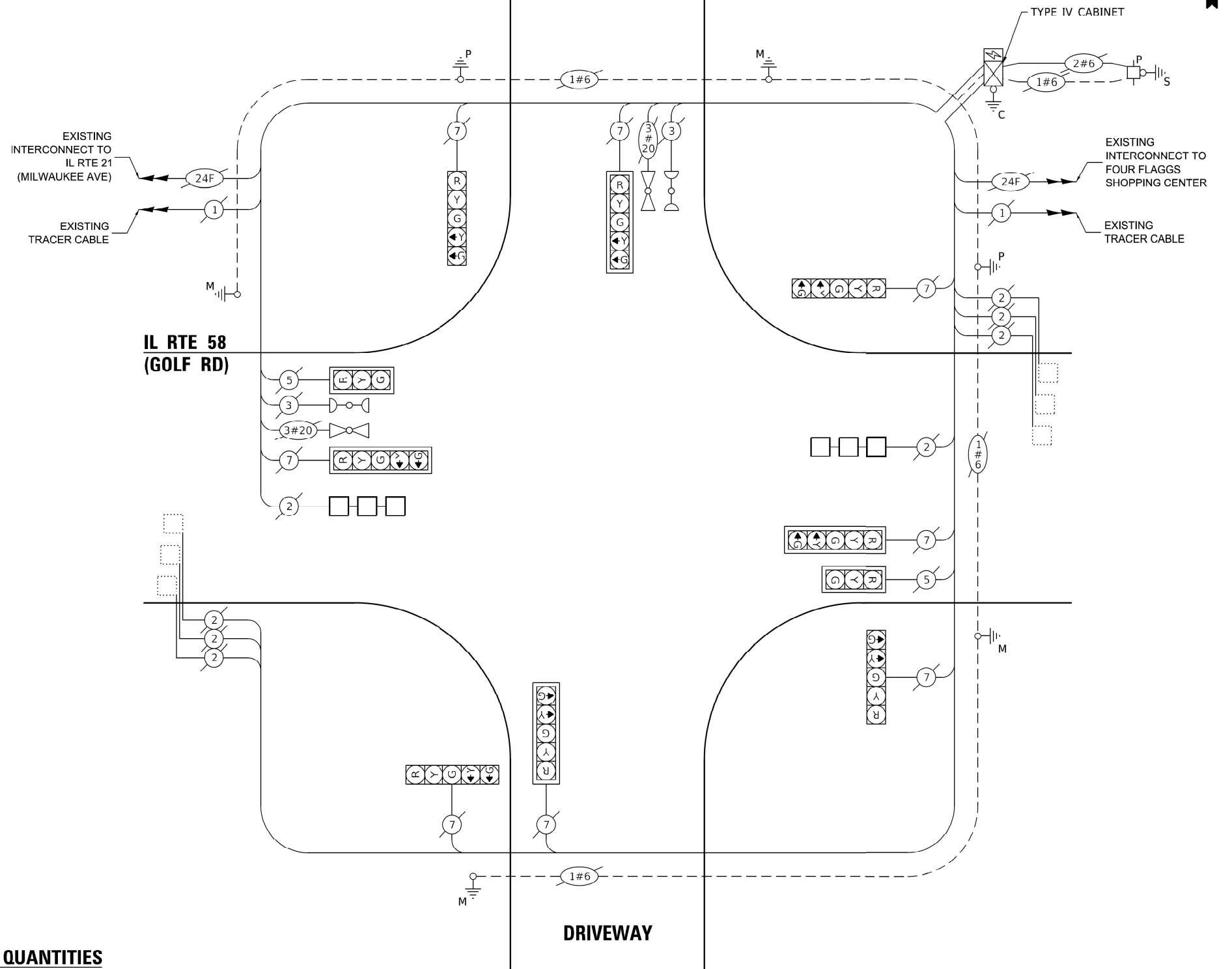
EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

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

GOLF MILL PLAZA



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	3 - SECTION	2	11
	4 - SECTION	-	14
	5 - SECTION	8	13
			104.0
PROGRAMMABLE SIGNALS			
	3 - SECTION	-	22
	4 - SECTION	-	32
	5 - SECTION	-	28
PED. SIGNAL			
CONTROLLER	1	150	150.0
MASTER CONTROLLER	-	100	-
UPS	1	25	25.0
DETECTION	RADAR	-	20
	VIDEO	-	20
BLANK-OUT SIGN	-	25	-
NETWORK SWITH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING =			301.0
UPS CHARGING	1	225	225.0
BATTERY HEATER MAT	1	180	180.0
CABINET HEATER	1	200	200.0
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING =			906.0

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY
DETECTOR LOOP REPLACEMENT	FOOT	200

CABLE PLAN
(NOT TO SCALE)

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 W CENTER COURT
SCHAUMBURG, IL 60196-1096

ENRGY SUPPLY: CONTACT: COMED NEW BUSINESS
PHONE: 630-424-5704
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APS SIGNAL PLANS
IL ROUTE 58 (GOLF RD) - I-294 (TRI-STATE TOLLWAY) TO LINCOLN ST

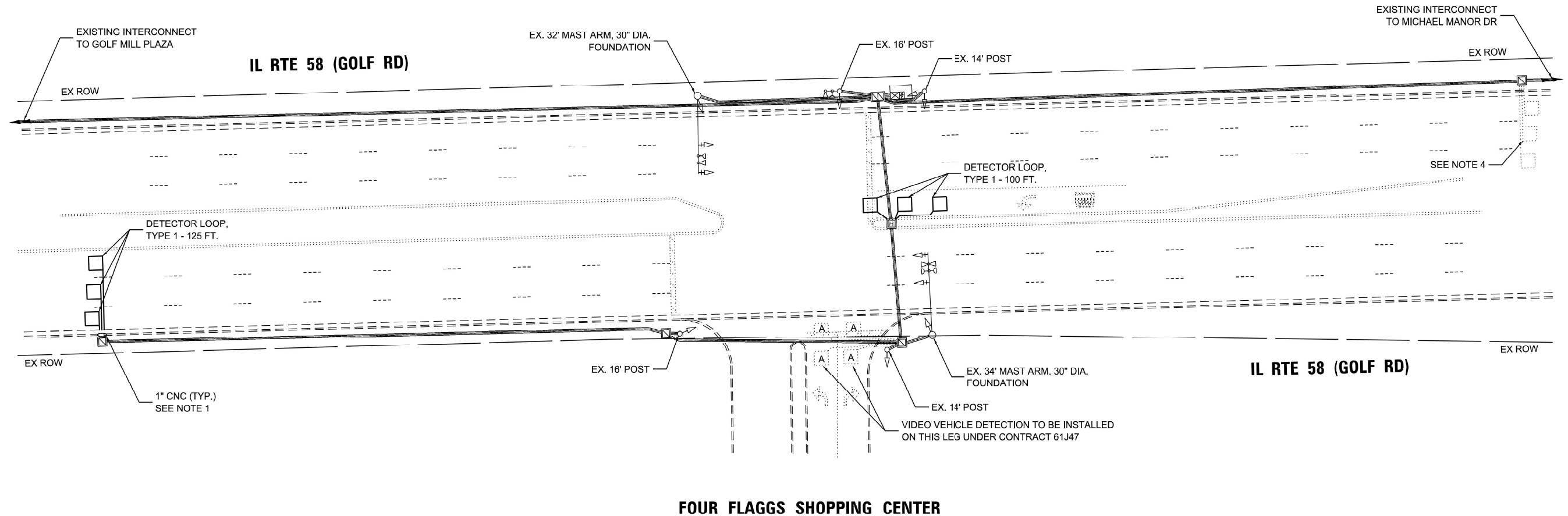
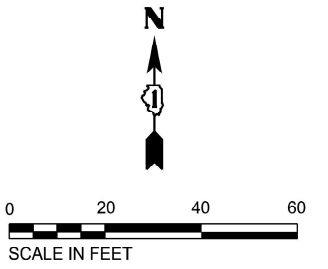
TS 11210
ECON 12

USER NAME = Jacob.Roth	DESIGNED - BBB	REVISED - RV1	SCALE: SHEET 1 OF SHEETS STA. TO STA.	F.A.P RTE. 339	SECTION FAP 0399 22 RS	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 28d
	DRAWN - CCC	REVISED - RV2		CONTRACT NO. 62T111				
	CHECKED - AAA	REVISED - RV3		ILLINOIS FED. AID PROJECT				
PLOT DATE = 8/10/2024	DATE - XX/XX/XX	REVISED - RV4						

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FILE NAME: c:\p\work\wv\control\p\0931886\124022-ah-ts.dgn

NOTES:

1. THIS PLAN IS FOR THE REPLACEMENT OF LOOP DETECTORS.
2. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
3. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISIONS, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING, AND PATCHING OPERATIONS).
4. WESTBOUND FAR OUT LOOPS ARE TO BE REPLACED UNDER CONTRACT 61J74, AND THE CONTRACTOR SHALL COORDINATE WITH CONTRACT 61J74 REGARDING THESE LOOPS.

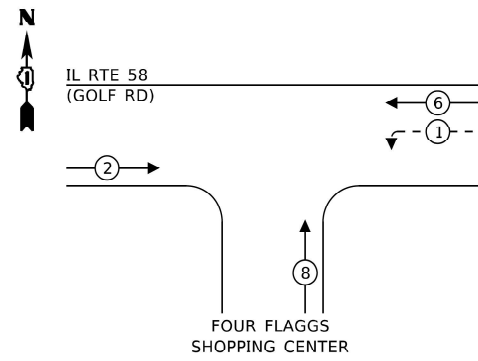


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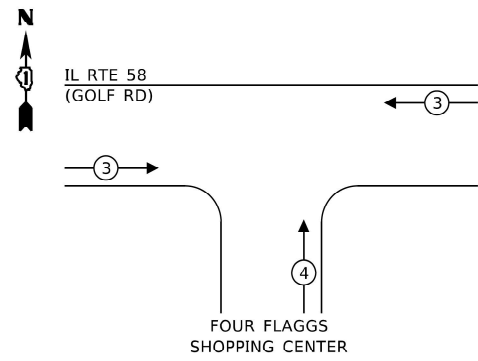
**TS 2885
ECON 12**

USER NAME = Jacob.Roth PLOT DATE = 8/10/2024		DESIGNED - BBB DRAWN - CCC CHECKED - AAA DATE - XX/XX/XX		REVISED - RV1 REVISED - RV2 REVISED - RV3 REVISED - RV4		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		APS SIGNAL PLANS IL ROUTE 58 (GOLF RD) - I-294 (TRI-STATE TOLLWAY) TO LINCOLN ST				F.A.P. RTE. 339 SECTION FAP 0399 22 RS COUNTY COOK TOTAL SHEETS 51 SHEET NO. 28e		CONTRACT NO. 62T11 ILLINOIS FED. AID PROJECT	
SCALE:		SHEET 1		OF SHEETS		STA.		TO STA.							

EXISTING CONTROLLER SEQUENCE



**EXISTING EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



LEGEND:

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

**TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS**

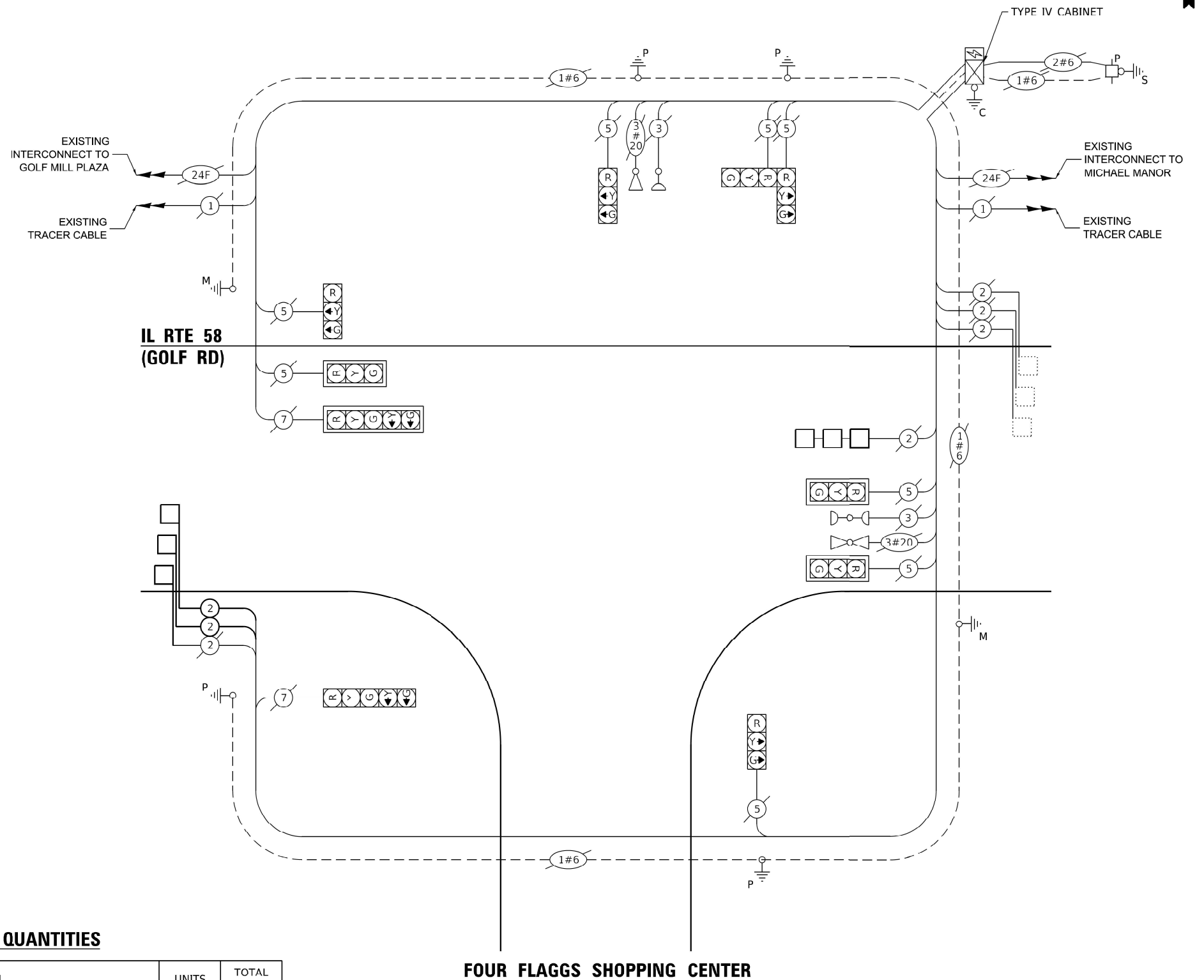
TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE	
SIGNAL HEAD	3 - SECTION	7	11	77.0
	4 - SECTION	-	14	-
	5 - SECTION	2	13	26.0
PROGRAMMABLE SIGNALS				
	3 - SECTION	-	22	-
	4 - SECTION	-	32	-
	5 - SECTION	-	28	-
PED. SIGNAL				
CONTROLLER	1	150	150.0	
MASTER CONTROLLER	-	100	-	
UPS	1	25	25.0	
DETECTION	RADAR	-	20	-
	VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-	
NETWORK SWITH II OR III	-	35	-	
CELLULAR MODEM	-	15	-	
TOTAL UPS SIZING = 278.0				
UPS CHARGING	1	225	225.0	
BATTERY HEATER MAT	1	180	180.0	
CABINET HEATER	1	200	200.0	
FLASHER	-	15	-	
LED STREET NAME SIGN	-	120	-	
LUMINAIRE	-	240	-	
TOTAL SERVICE WIRE SIZING = 883.0				

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 W CENTER COURT
SCHAUMBURG, IL 60196-1096

FNFRGY SLIPPIY: CONTACT: COMED NEW BUSINESS
PHONE: 630-424-5704
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: -

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,600
INDUCTIVE LOOP DETECTOR	EACH	2
DETECTOR LOOP, TYPE 1	FOOT	225



**CABLE PLAN
(NOT TO SCALE)**

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APS SIGNAL PLANS
IL ROUTE 58 (GOLF RD) - I-294 (TRI-STATE TOLLWAY) TO LINCOLN ST

TS 2885
ECON 12

MODEL: APS-16 (Sheet)
FILE NAME: c:\p\work\signal\control\0931886D124022-eh-TS.dgn

USER NAME = Jacob.Roth	DESIGNED - BBB	REVISED - RV1
	DRAWN - CCC	REVISED - RV2
	CHECKED - AAA	REVISED - RV3
PLOT DATE = 8/10/2024	DATE - XX/XX/XX	REVISED - RV4

DESIGNED - BBB	REVISED - RV1
DRAWN - CCC	REVISED - RV2
CHECKED - AAA	REVISED - RV3
DATE - XX/XX/XX	REVISED - RV4

SCALE: SHEET 1 OF SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	FAP 0399 22 RS	COOK	51	28f
CONTRACT NO. 62T11				
ILLINOIS FED. AID PROJECT				

NOTES:

1. THIS PLAN IS FOR THE INSTALLATION OF APS PUSH BUTTONS AND THE REPLACEMENT OF LOOP DETECTORS.
2. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
3. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISIONS, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING, AND PATCHING OPERATIONS).
4. ALL PUSH BUTTONS SHALL BE APS.
5. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALKS.
6. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT BEFORE INSTALLATION WITH THE TRAFFIC SIGNAL ENGINEER.
7. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
8. EXISTING LOOPS ON MICHAEL MANOR SHALL BE MILLED AND REPLACED WITH VIDEO DETECTION AND LEAD-IN CABLE SHALL BE REMOVED.
9. VIDEO DETECTION SYSTEMS SHALL BE MOUNTED ON RISER BRACKETS AT THE LENGTH DETERMINED BY THE MANUFACTURER. FINAL CAMERA LOCATIONS SHALL BE OPTIMAL TO MINIMIZE OCCLUSION BASED FALSE CALLS FROM TRAFFIC IN ADJACENT LANES.

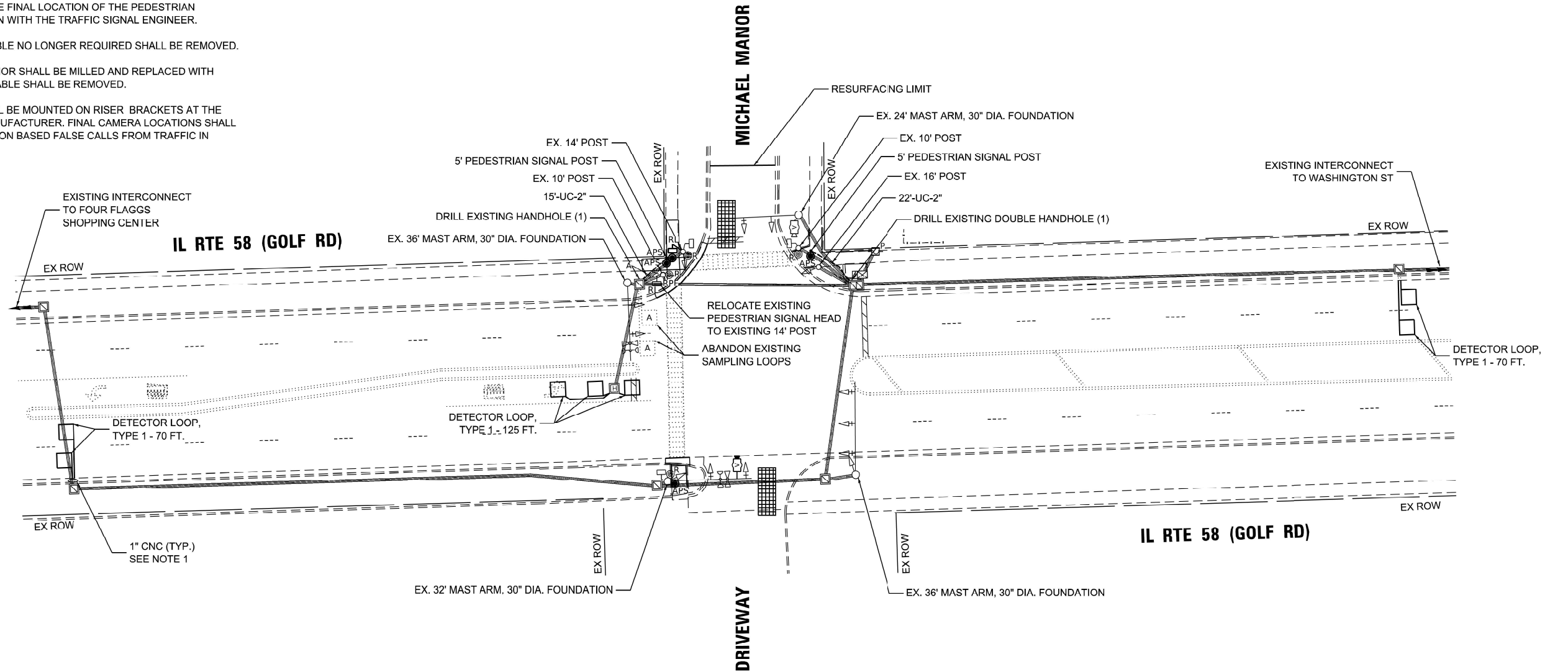
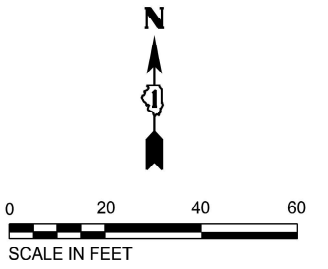
REMOVAL AND RELOCATION NOTES:

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

- 4 EACH PEDESTRIAN PUSH-BUTTON
- 1 EACH PEDESTRIAN 10FT POST

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE RELOCATED TO THE PROPOSED TRAFFIC SIGNAL EQUIPMENT INDICATED IN THE PLAN

- 1 EACH PEDESTRIAN SIGNAL HEAD

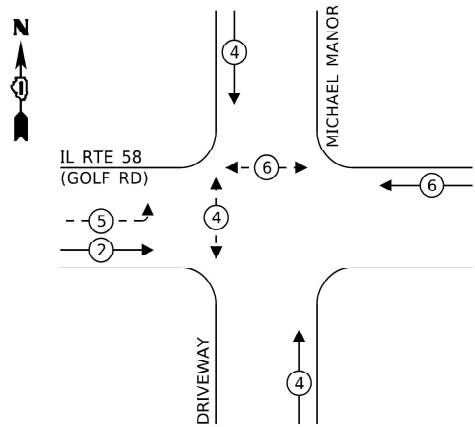


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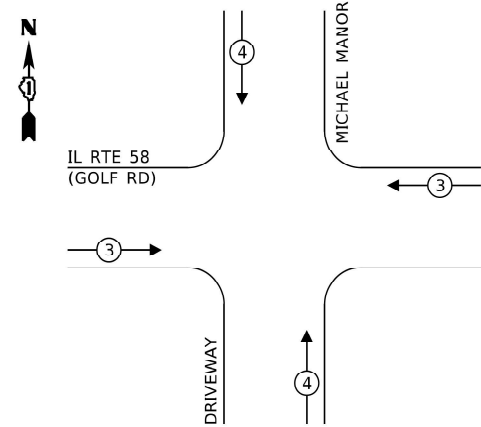
**TS 11170
ECON 12**

USER NAME = Jacob.Roth		DESIGNED - BBB	REVISED - RV1	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	APS SIGNAL PLANS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - CCC	REVISED - RV2		IL ROUTE 58 (GOLF RD) - I-294 (TRI-STATE TOLLWAY) TO LINCOLN ST			339	FAP 0399 22 RS	COOK	51	29a
		CHECKED - AAA	REVISED - RV3					CONTRACT NO. 62T11				
PLOT DATE = 8/10/2024		DATE - XX/XX/XX	REVISED - RV4		SCALE:			SHEET 1	OF SHEETS	STA.	TO STA.	

EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

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

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	3 - SECTION	11	121.0
	4 - SECTION	14	-
	5 - SECTION	2	26.0
PROGRAMMABLE SIGNALS			
	3 - SECTION	22	-
	4 - SECTION	32	-
	5 - SECTION	28	-
PED. SIGNAL			
CONTROLLER	4	15	60.0
MASTER CONTROLLER	1	150	150.0
UPS	-	100	-
DETECTION	1	25	25.0
	RADAR	20	-
	VIDEO	20	40.0
BLANK-OUT SIGN			
NETWORK SWITH II OR III	-	25	-
CELLULAR MODEM	-	35	-
	-	15	-
TOTAL UPS SIZING = 422.0			
UPS CHARGING	1	225	225.0
BATTERY HEATER MAT	1	180	180.0
CABINET HEATER	1	200	200.0
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING = 1,027.0			

ENERGY COSTS TO:
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 201 W CENTER COURT
 SCHAUMBURG, IL 60196-1096

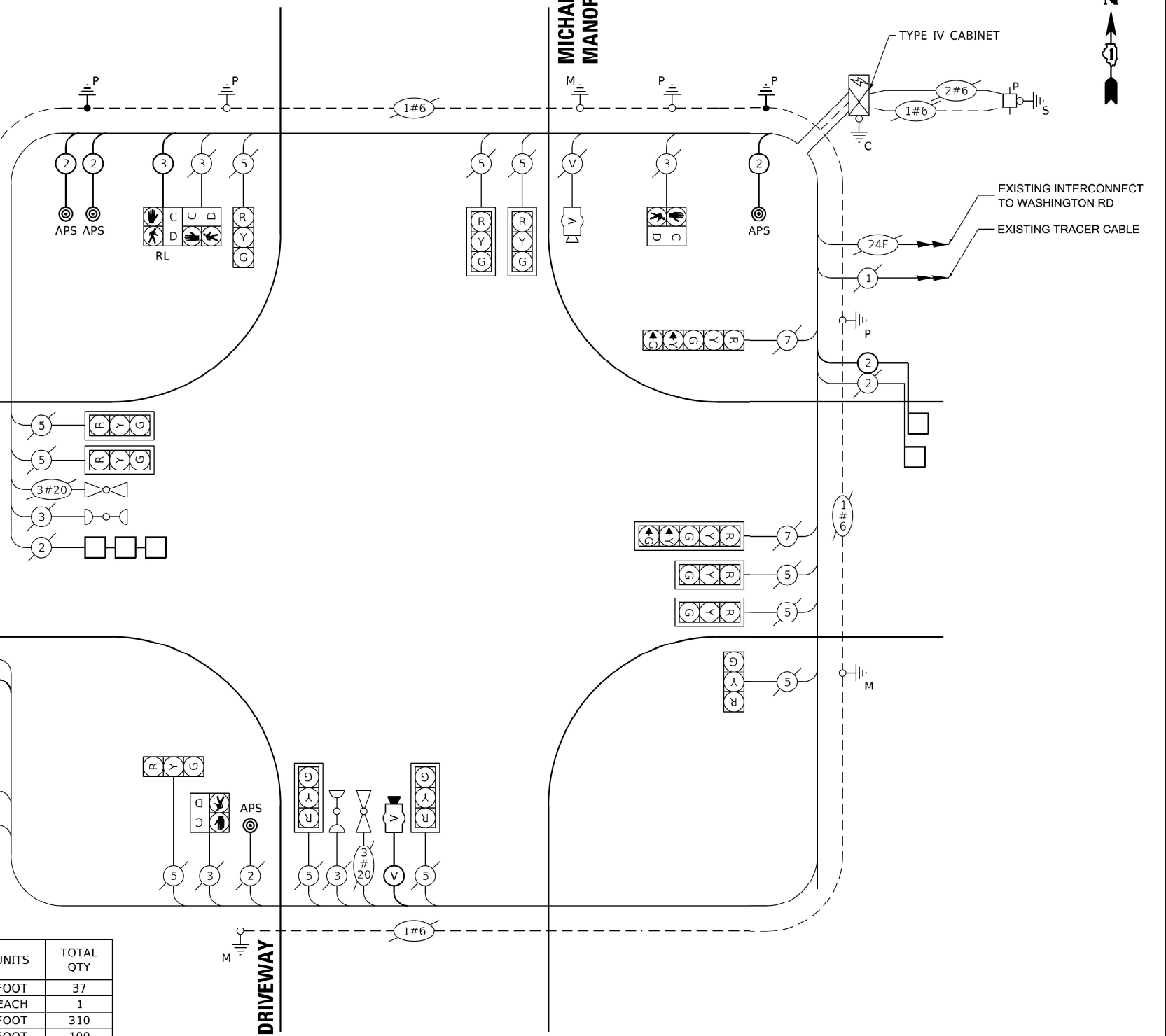
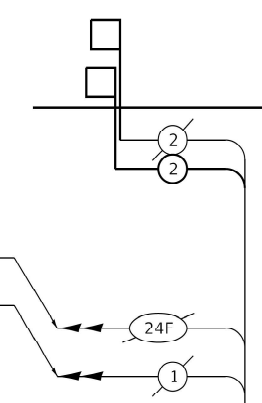
FNFRGY SUPPLY: CONTACT: COMED NEW BUSINESS
 PHONE: 630-424-5704
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: -

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	37
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	310
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	100
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	650
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	180
DRILL EXISTING HANDBOLE	EACH	2
INDUCTIVE LOOP DETECTOR	EACH	2
DETECTOR LOOP, TYPE 1	FOOT	265
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	390
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	2
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	8
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	1
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

IL RTE 58 (GOLF RD)

MICHAEL MANOR



CABLE PLAN
(NOT TO SCALE)

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

APS SIGNAL PLANS
 IL ROUTE 58 (GOLF RD) - I-294 (TRI-STATE TOLLWAY) TO LINCOLN ST

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	FAP 0399 22 RS	COOK	51	29b
CONTRACT NO. 62T11				

TS 11170
 ECON 12

MODEL: APS-18 (Sheet)
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USER NAME = Jacob.Roth	DESIGNED - BBB	REVISED - RV1
	DRAWN - CCC	REVISED - RV2
	CHECKED - AAA	REVISED - RV3
PLOT DATE = 8/10/2024	DATE - XX/XX/XX	REVISED - RV4

SCALE: SHEET 1 OF SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT

NOTES:

1. THIS PLAN IS FOR THE INSTALLATION OF APS PUSH BUTTONS AND THE REPLACEMENT OF LOOP DETECTORS.
2. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
3. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISIONS, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING, AND PATCHING OPERATIONS).
4. ALL PUSH BUTTONS SHALL BE APS.
5. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALKS.
6. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT BEFORE INSTALLATION WITH THE TRAFFIC SIGNAL ENGINEER.
7. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
8. EXISTING LOOPS ON WASHINGTON RD SHALL BE MILLED AND REPLACED WITH VIDEO DETECTION AND LEAD-IN CABLE SHALL BE REMOVED.
9. VIDEO DETECTION SYSTEMS SHALL BE MOUNTED ON RISER BRACKETS AT THE LENGTH DETERMINED BY THE MANUFACTURER. FINAL CAMERA LOCATIONS SHALL BE OPTIMAL TO MINIMIZE OCCLUSION BASED FALSE CALLS FROM TRAFFIC IN ADJACENT LANES.

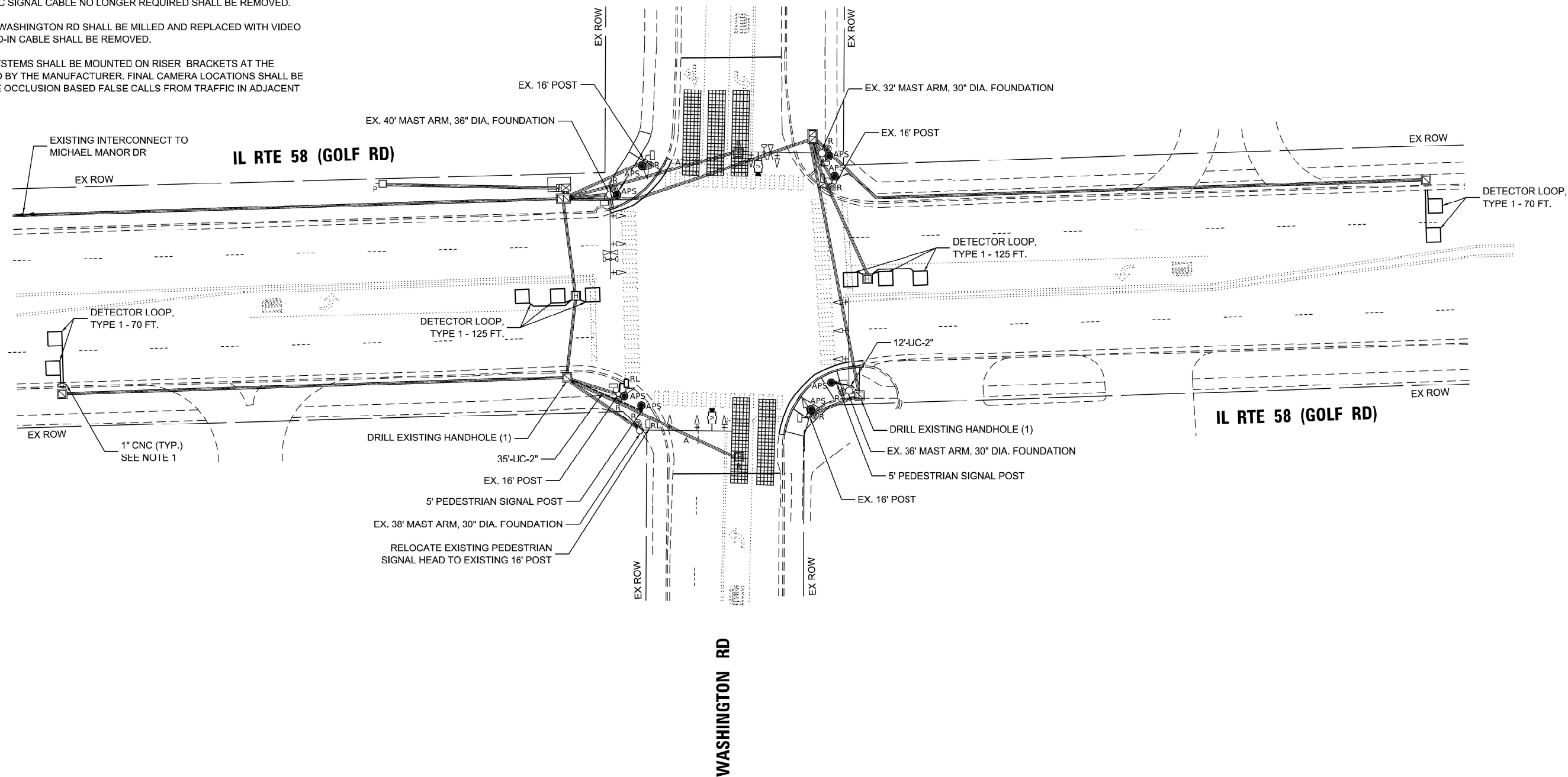
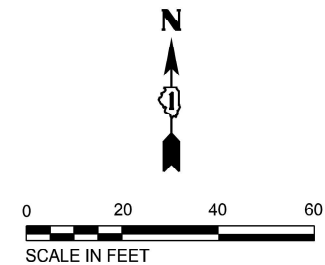
REMOVAL AND RELOCATION NOTES:

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

- 8 EACH PEDESTRIAN PUSH-BUTTON
- 2 EACH HEAVY DUTY HANDHOLES

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE RELOCATED TO THE PROPOSED TRAFFIC SIGNAL EQUIPMENT INDICATED IN THE PLAN.

- 1 EACH PEDESTRIAN SIGNAL HEAD



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**TS 2850
ECON 12**

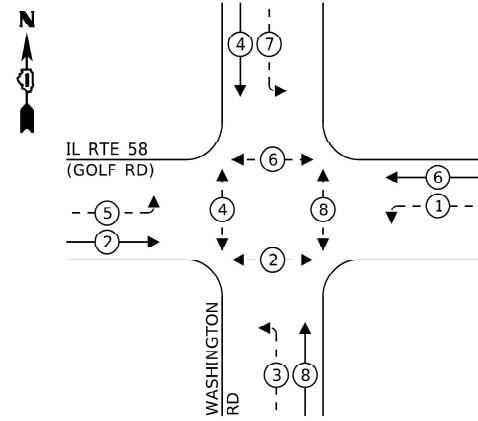
USER NAME = Jacob.Roth	DESIGNED - BBB	REVISED - RV1
	DRAWN - CCC	REVISED - RV2
	CHECKED - AAA	REVISED - RV3
PLOT DATE = 8/10/2024	DATE - XX/XX/XX	REVISED - RV4

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

APS SIGNAL PLANS			
IL ROUTE 58 (GOLF RD) - I-294 (TRI-STATE TOLLWAY) TO LINCOLN ST			
SCALE:	SHEET 1	OF SHEETS	STA. TO STA.

F.A.P. RTE. 339	SECTION FAP 0399 22 RS	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 30a
CONTRACT NO. 62T11				
ILLINOIS FED. AID PROJECT				

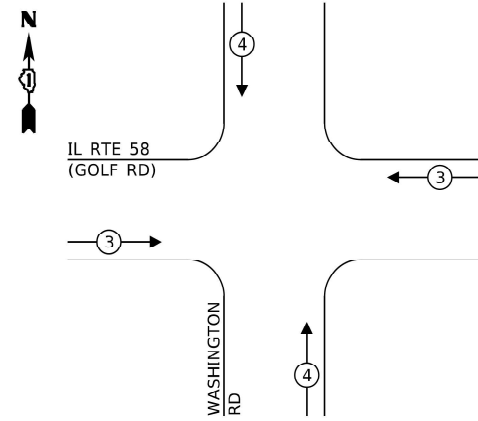
EXISTING CONTROLLER SEQUENCE



LEGEND:

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

**EXISTING EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS**

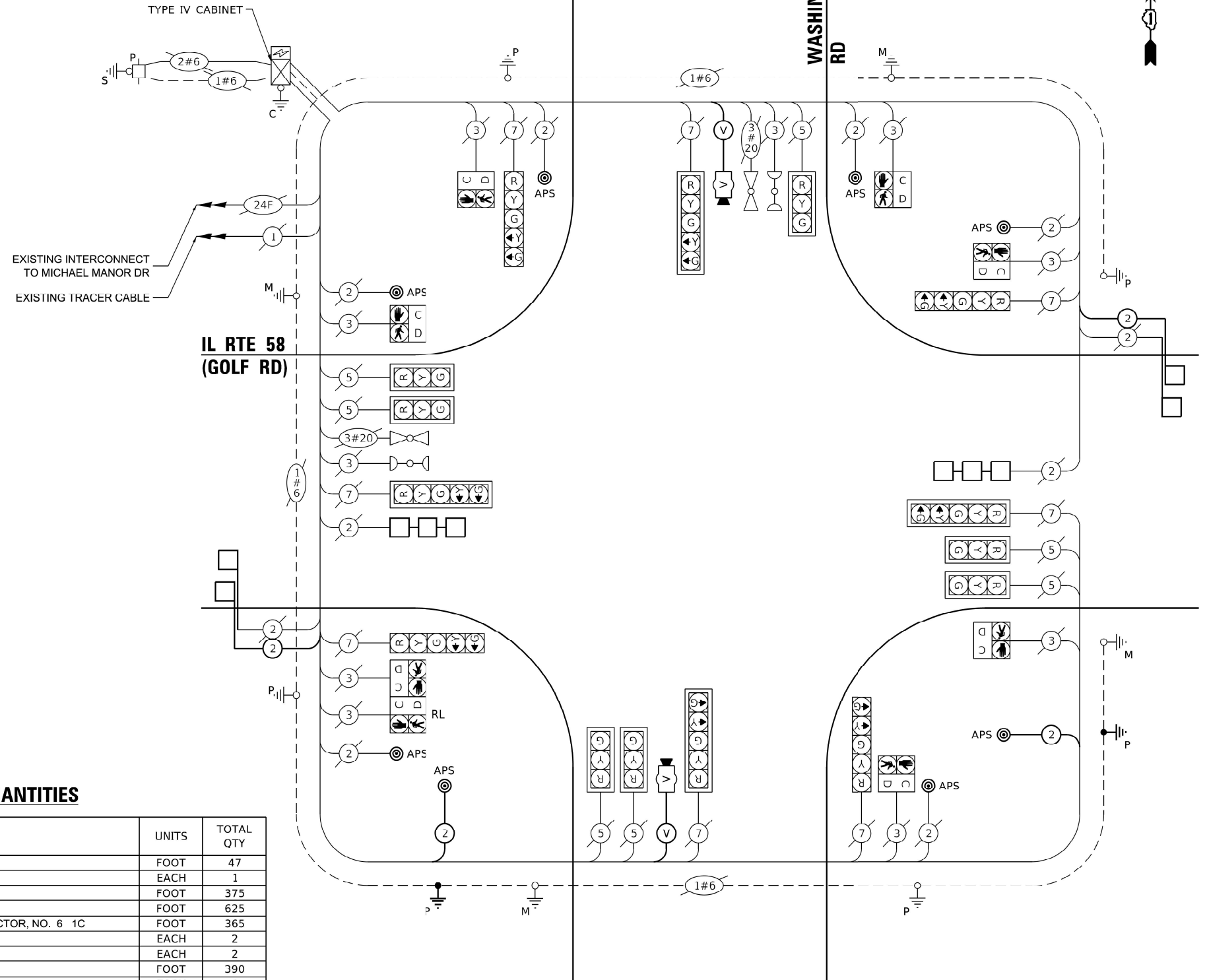
TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	3 - SECTION	7	11
	4 - SECTION	-	14
	5 - SECTION	8	13
			104.0
PROGRAMMABLE SIGNALS			
	3 - SECTION	-	22
	4 - SECTION	-	32
	5 - SECTION	-	28
PED. SIGNAL			
	8	15	120.0
CONTROLLER	1	150	150.0
MASTER CONTROLLER	-	100	-
UPS	1	25	25.0
DETECTION	RADAR	-	20
	VIDEO	2	20
			40.0
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING =			516.0
UPS CHARGING	1	225	225.0
BATTERY HEATER MAT	1	180	180.0
CABINET HEATER	1	200	200.0
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING =			1,121.0

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 W CENTER COURT
SCHAUMBURG, IL 60196-1096

ENFRGY SUPPLY: CONTACT: COMED NEW BUSINESS
PHONE: 630-424-5704
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: -

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	47
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	375
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	625
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	365
DRILL EXISTING HANDHOLE	EACH	2
INDUCTIVE LOOP DETECTOR	EACH	2
DETECTOR LOOP, TYPE 1	FOOT	390
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	985
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	135
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	2
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	2
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	8
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1



CABLE PLAN
(NOT TO SCALE)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APS SIGNAL PLANS
IL ROUTE 58 (GOLF RD) - I-294 (TRI-STATE TOLLWAY) TO LINCOLN ST

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	FAP 0399 22 RS	COOK	51	30b
CONTRACT NO. 62T11				
ILLINOIS FED. AID PROJECT				

TS 2850
ECON 12

MODEL: APS-20 (Sheet)
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USER NAME = Jacob.Roth	DESIGNED - BBB	REVISED - RV1
	DRAWN - CCC	REVISED - RV2
	CHECKED - AAA	REVISED - RV3
PLOT DATE = 8/10/2024	DATE - XX/XX/XX	REVISED - RV4

SCALE: SHEET 1 OF SHEETS STA. TO STA.

REMOVAL AND RELOCATION NOTES:

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

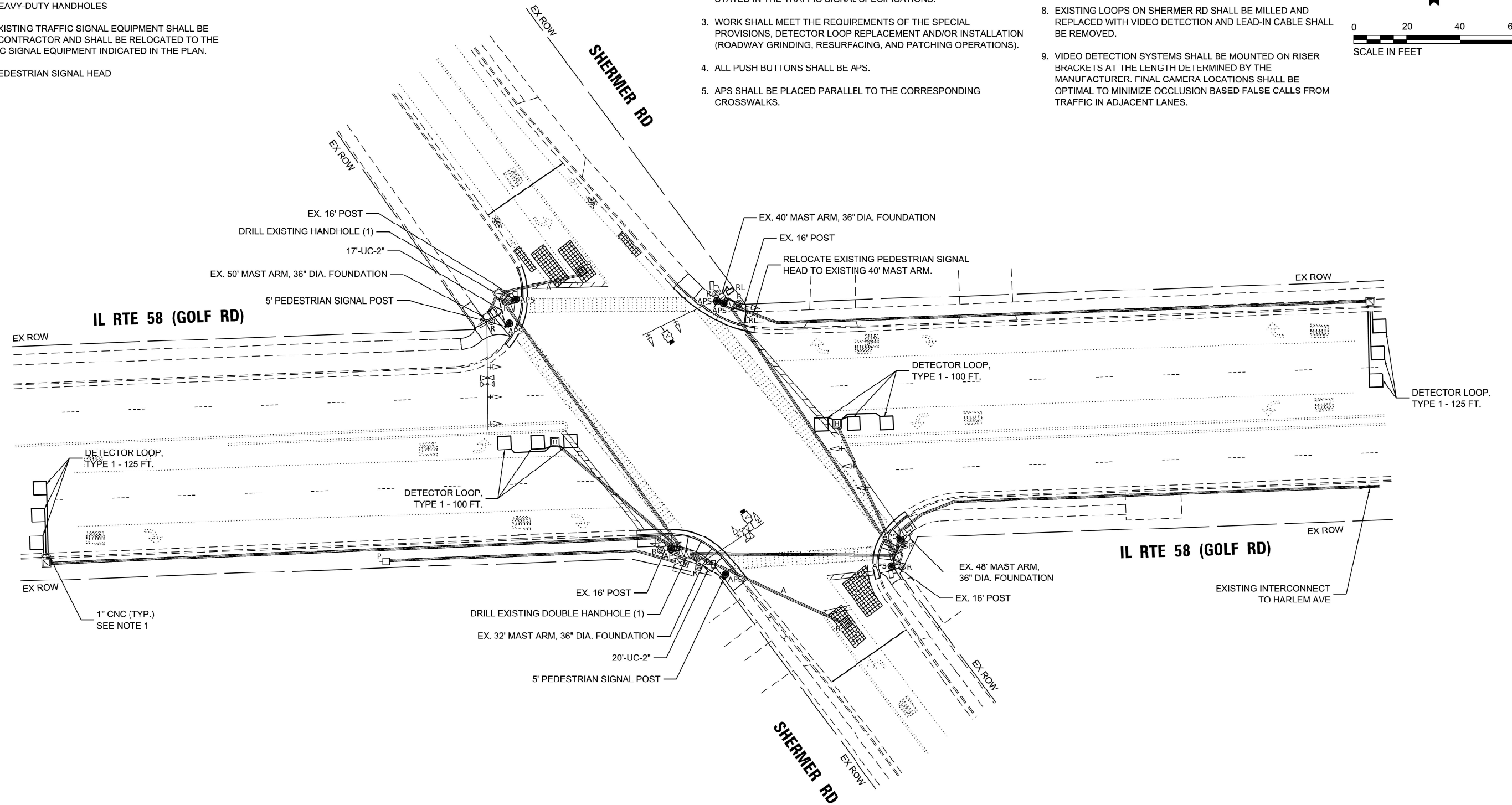
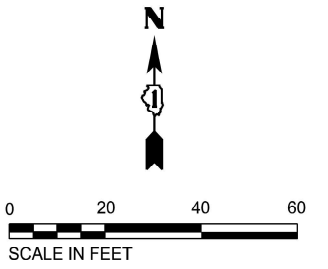
- 8 EACH PEDESTRIAN PUSH-BUTTON
- 2 EACH HEAVY-DUTY HANDHOLES

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE RELOCATED TO THE PROPOSED TRAFFIC SIGNAL EQUIPMENT INDICATED IN THE PLAN.

- 1 EACH PEDESTRIAN SIGNAL HEAD

NOTES:

1. THIS PLAN IS FOR THE INSTALLATION OF APS PUSH BUTTONS AND THE REPLACEMENT OF LOOP DETECTORS.
2. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
3. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISIONS, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING, AND PATCHING OPERATIONS).
4. ALL PUSH BUTTONS SHALL BE APS.
5. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALKS.
6. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT BEFORE INSTALLATION WITH THE TRAFFIC SIGNAL ENGINEER.
7. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
8. EXISTING LOOPS ON SHERMER RD SHALL BE MILLED AND REPLACED WITH VIDEO DETECTION AND LEAD-IN CABLE SHALL BE REMOVED.
9. VIDEO DETECTION SYSTEMS SHALL BE MOUNTED ON RISER BRACKETS AT THE LENGTH DETERMINED BY THE MANUFACTURER. FINAL CAMERA LOCATIONS SHALL BE OPTIMAL TO MINIMIZE OCCLUSION BASED FALSE CALLS FROM TRAFFIC IN ADJACENT LANES.

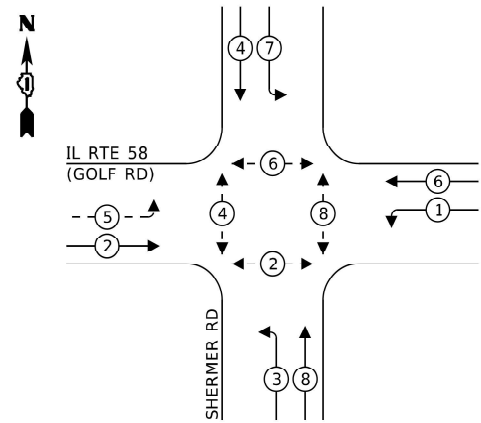


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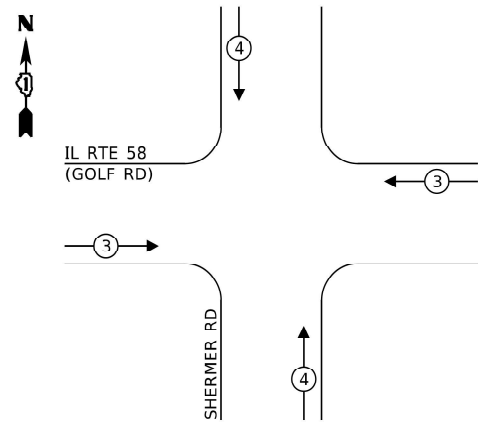
**TS 2845
ECON 8**

	USER NAME = Jacob.Roth	DESIGNED - BBB	REVISED - RV1	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	APS SIGNAL PLANS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - CCC	REVISED - RV2		IL ROUTE 58 (GOLF RD) - I-294 (TRI-STATE TOLLWAY) TO LINCOLN ST				339	FAP 0399 22 RS	COOK	51	31a
		CHECKED - AAA	REVISED - RV3		CONTRACT NO. 62T11								
	PLOT DATE = 8/10/2024	DATE - XX/XX/XX	REVISED - RV4		SCALE:	SHEET 1	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

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

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

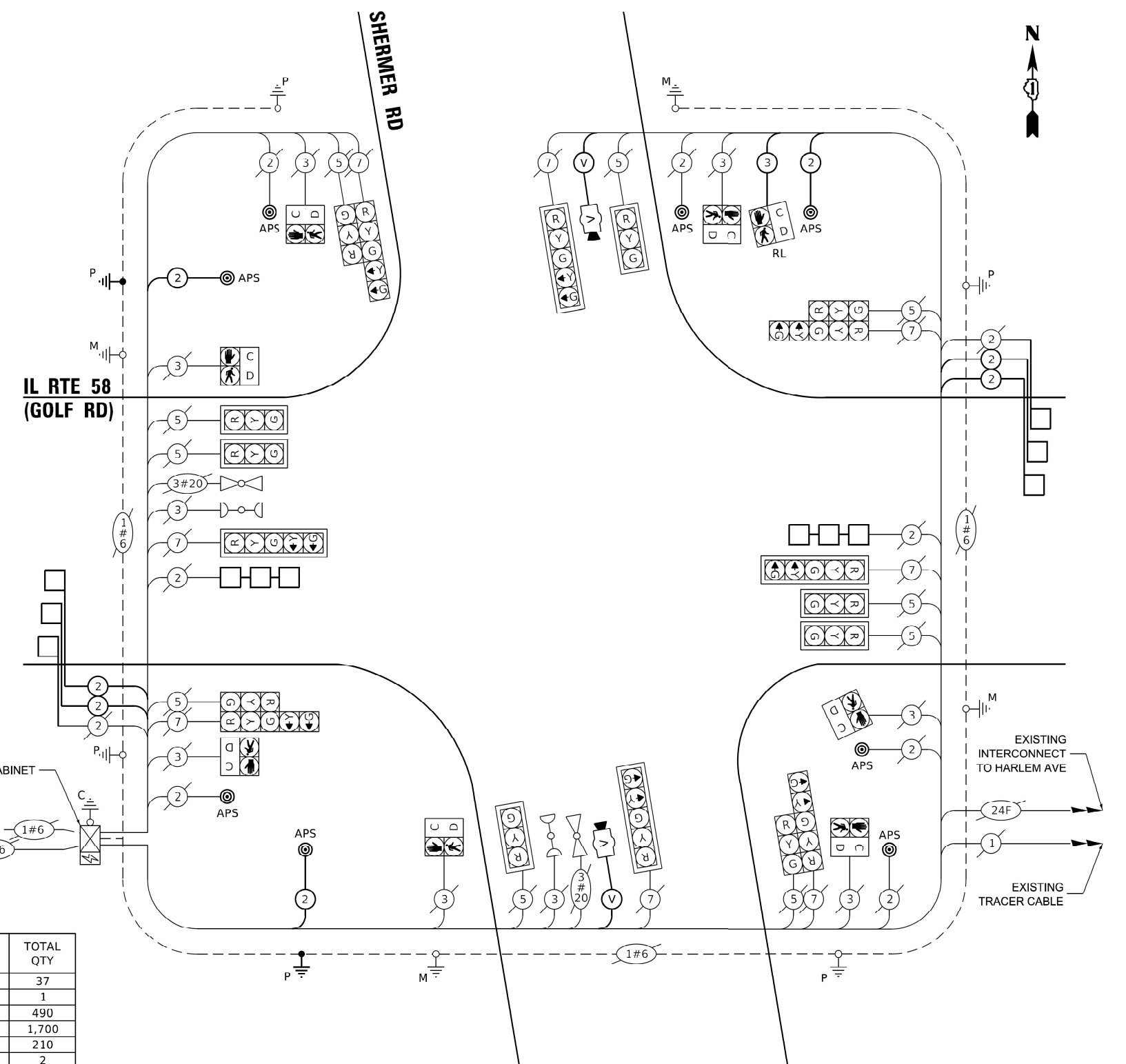
TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	3 - SECTION	10	11
	4 - SECTION	-	14
	5 - SECTION	8	13
			104.0
PROGRAMMABLE SIGNALS			
	3 - SECTION	-	22
	4 - SECTION	-	32
	5 - SECTION	-	28
PED. SIGNAL			
CONTROLLER	8	15	120.0
MASTER CONTROLLER	1	150	150.0
UPS	-	100	-
DETECTION	1	25	25.0
	RADAR	-	20
	VIDEO	2	20
			40.0
BLANK-OUT SIGN			
	-	25	-
NETWORK SWITH II OR III			
	-	35	-
CELLULAR MODEM			
	-	15	-
TOTAL UPS SIZING =			
			549.0
UPS CHARGING	1	225	225.0
BATTERY HEATER MAT	1	180	180.0
CABINET HEATER	1	200	200.0
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING =			
			1,154.0

ENERGY COSTS TO:
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 201 W CENTER COURT
 SCHAUMBURG, IL 60196-1096

FNRGRY SLIPPLY: CONTACT: COMED NEW BUSINESS
 PHONE: 630-424-5704
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: -

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	37
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	490
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,700
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	210
DRILL EXISTING HANDHOLE	EACH	2
INDUCTIVE LOOP DETECTOR	EACH	4
DETECTOR LOOP, TYPE 1	FOOT	450
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1,355
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	275
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	2
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	2
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	8
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1



CABLE PLAN
(NOT TO SCALE)

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USER NAME = Jacob.Roth	DESIGNED - BBB	REVISED - RV1
	DRAWN - CCC	REVISED - RV2
	CHECKED - AAA	REVISED - RV3
PLOT DATE = 8/10/2024	DATE - XX/XX/XX	REVISED - RV4

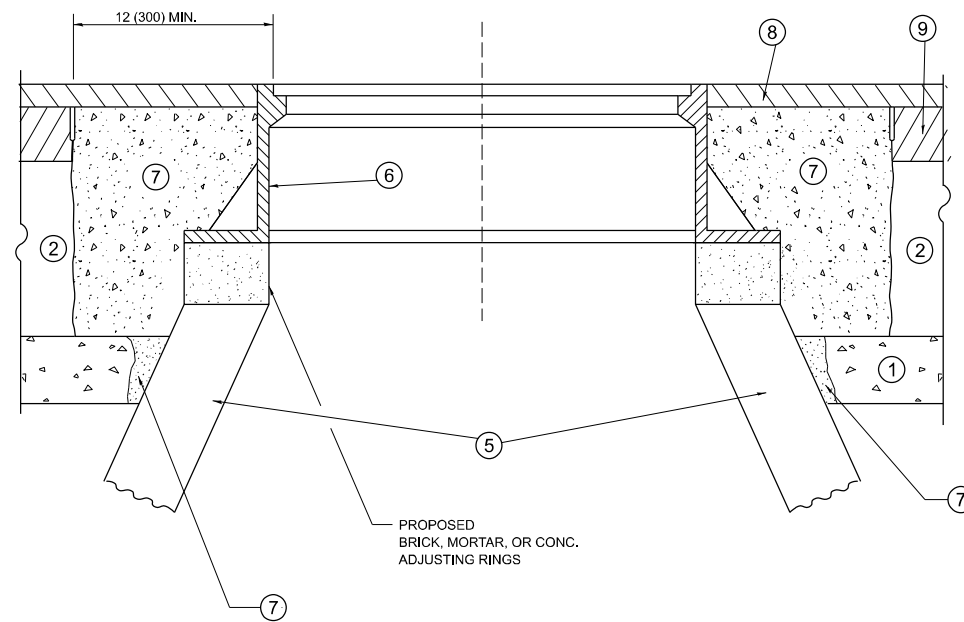
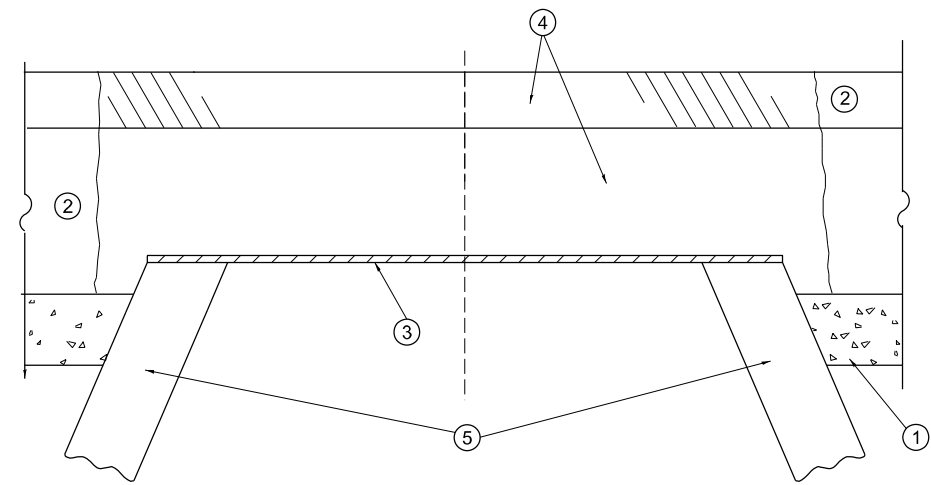
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Sheet Title Line 1
Sheet Title Line 2

SCALE: SHEET 1 OF 22 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	FAP 0399 22 RS	COOK	51	31b
CONTRACT NO. 62T11				
ILLINOIS FED. AID PROJECT				

TS 2845
ECON 8



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

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND HMA SURFACE MIX APPROVED BY THE ENGINEER. (MIN. 3 (80) HMA TO REMAIN AFTER MILLING).

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-2* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

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

LEGEND

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

LOCATION OF STRUCTURES

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

BASIS OF PAYMENT

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

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

NOTES

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

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

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

USER NAME = Jacob.Roth	DESIGNED - BBSHAH	REVISED - R.F.BIGRO 03-09-11
	DRAWN - CCC	REVISED - R.F.BIGRO 12-06-11
PLOT SCALE = 0.16666633' / in.	CHECKED - AAA	REVISED - K.F.BSMITH 11-18-22
PLOT DATE = 6/28/2024	DATE - XXXXXX	REVISED - K.F.BSMITH 09-15-23

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	FAP 0399 22 RS	COOK	51	32
BD600-03 (BD-08)		CONTRACT NO. 62T11		
ILLINOIS FED. AID PROJECT				

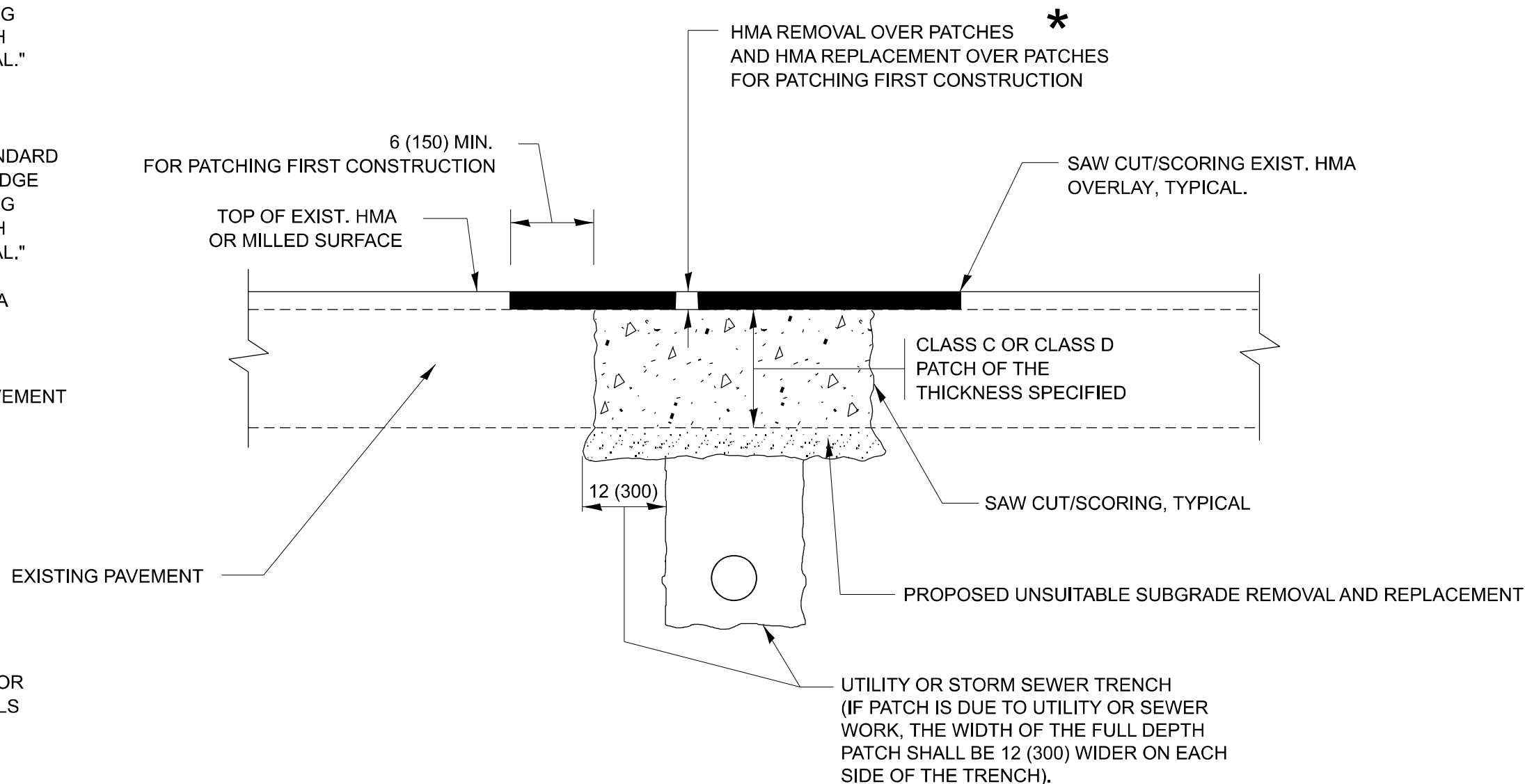
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METHOD OF MEASUREMENT

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

BASIS OF PAYMENT

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



SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

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

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 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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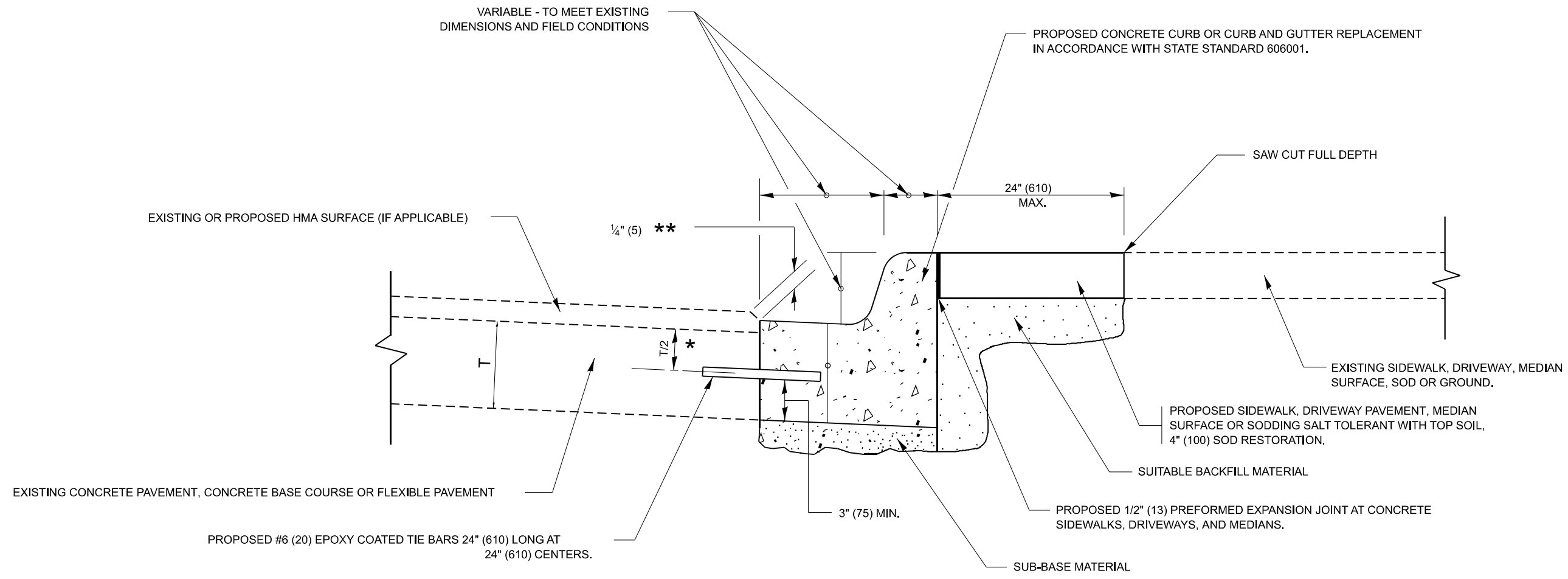
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PLOT DATE = 6/28/2024	DATE - 20240624X	REVISED - R/BMITH 11-18-22

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR
HMA SURFACED PAVEMENT

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	FAP 0399 22 RS	COOK	51	33
BD400-04 (BD-22)		CONTRACT NO. 62T11		
ILLINOIS FED. AID PROJECT				



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

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

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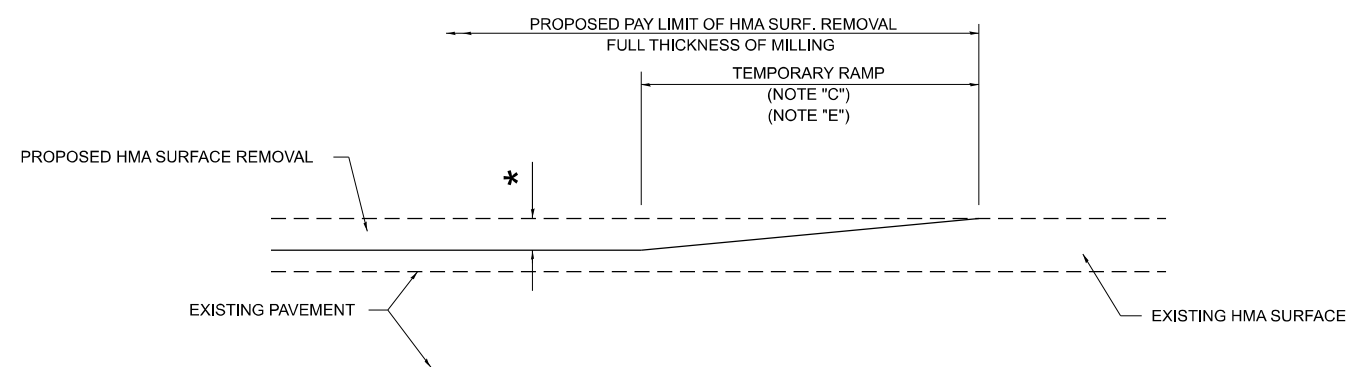
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	DRAWN - CCC	REVISED - RV BOMEZ 01-22-01
PLOT SCALE = 0.16666633' / in.	CHECKED - AAA	REVISED - RJ BORO 12-15-09
PLOT DATE = 6/28/2024	DATE - 03/10/20XX	REVISED - RJ MITH 07-11-19

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

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

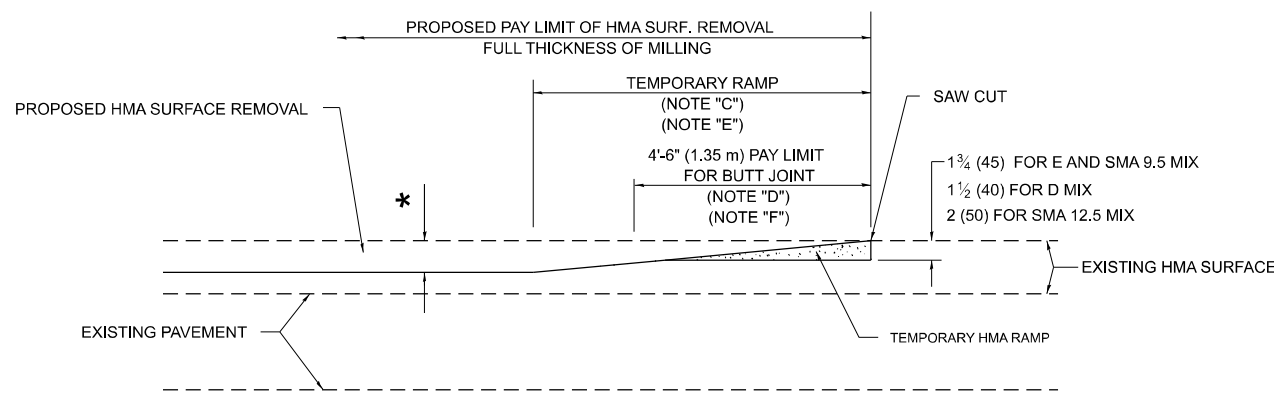
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	FAP 0399 22 RS	COOK	51	34
BD600-06 (BD-24)		CONTRACT NO. 62T11		
ILLINOIS FED. AID PROJECT				



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

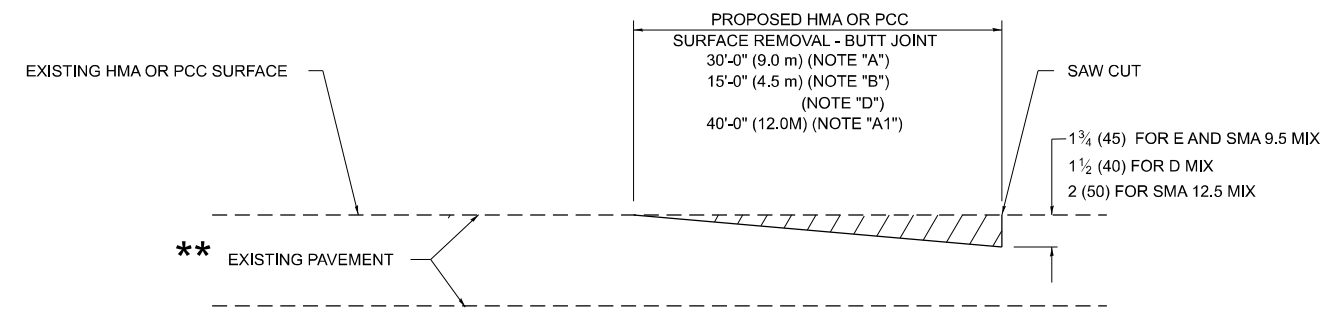


HMA CONSTRUCTED TEMPORARY RAMP

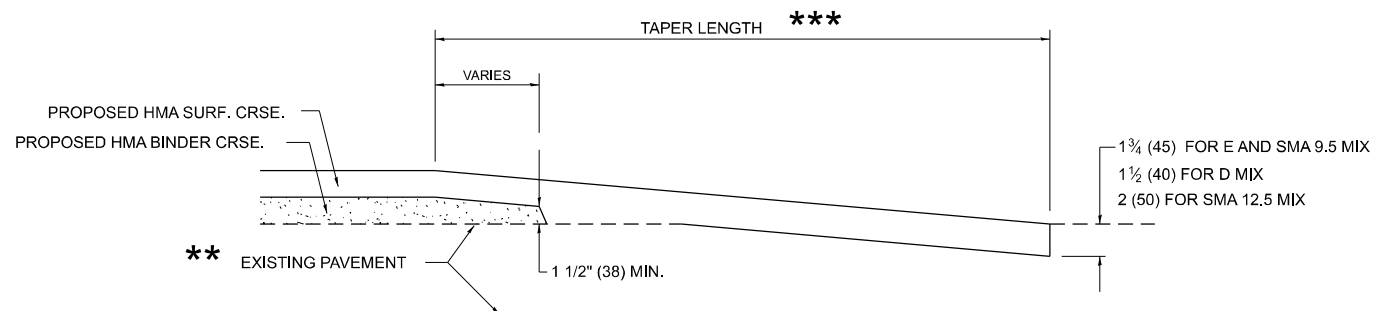
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

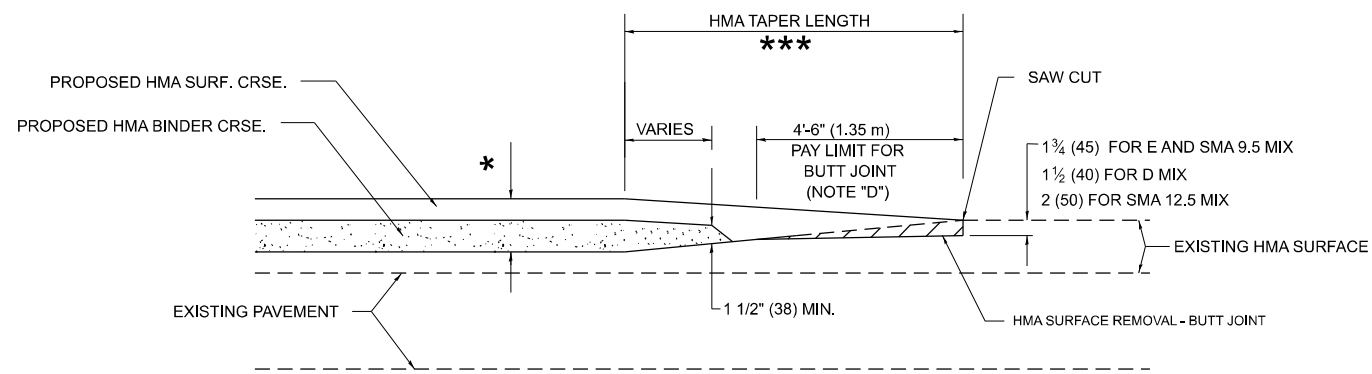
*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

GENERAL NOTES

- A. MAINLINE ARTERIAL ROADWAYS AND MAJOR SIDE ROADS.
- A1. INTERSTATES
- B. MINOR SIDE ROADS.
- C. THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D. THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E. TAPER THE TEMP. RAMP AT A RATE OF 3' - 4" (1.02m) PER 1 INCH (25 mm) OF MILLING THICKNESS.
 - * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- F. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
 - *** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
 - 10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT

- 1. THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".
- 2. THE TEMPORARY RAMP AND SAW CUT SHALL BE INCLUDED IN THE UNIT COST FOR HMA OR PCC SURFACE REMOVAL-BUTT JOINT.



BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

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

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DRAWN - CCC	REVISED - MV/GOMEZ 04-06-01	
PLOT SCALE = 0.16666633' / in.	CHECKED - AAA	REVISED - RJ/BORO 01-01-07
PLOT DATE = 6/28/2024	DATE - 06/28/2024	REVISED - RJ/MITH 11-18-22

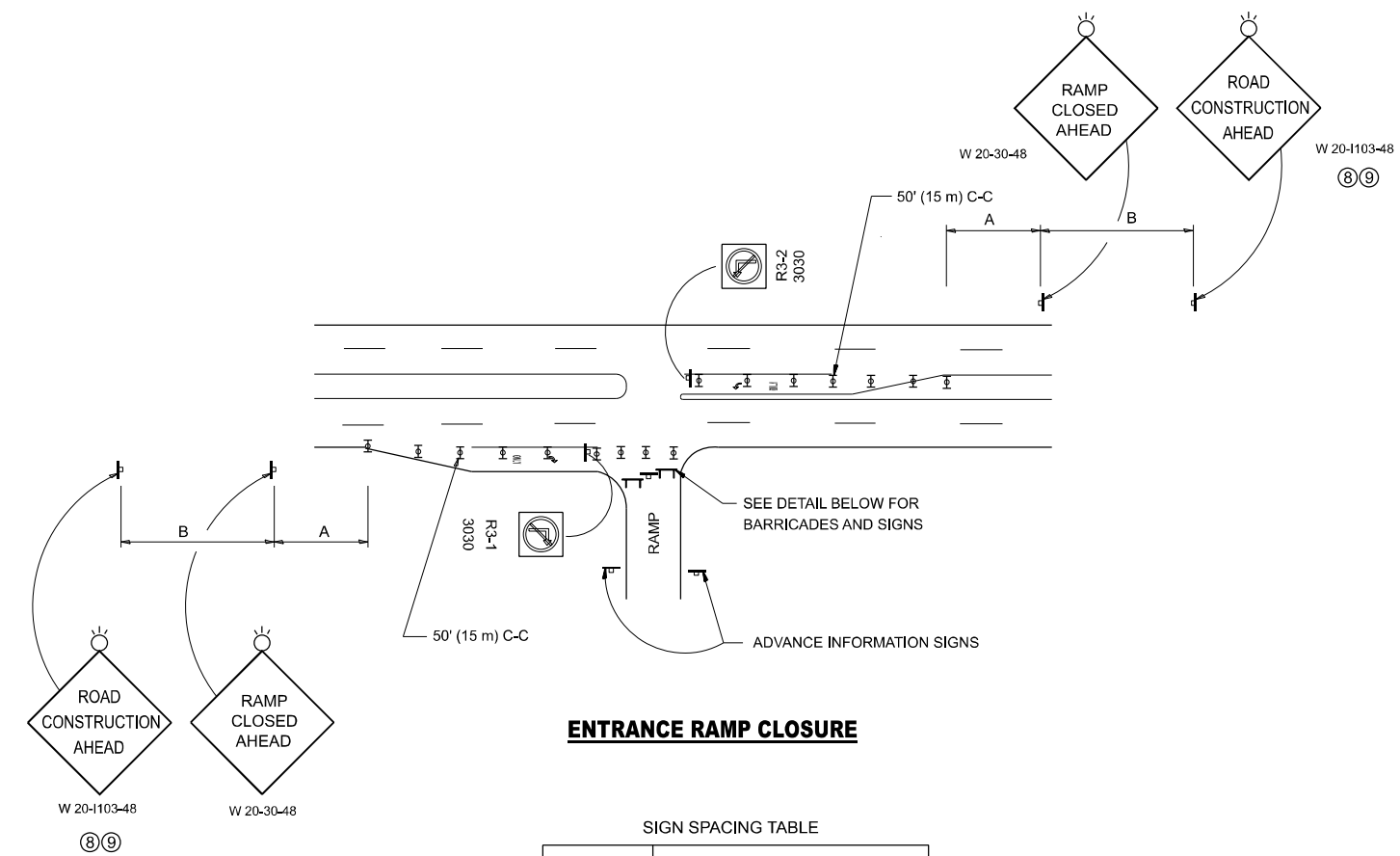
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	FAP 0399 22 RS	COOK	51	35
BD400-05 BD-32		CONTRACT NO. 62T11		
ILLINOIS FED. AID PROJECT				

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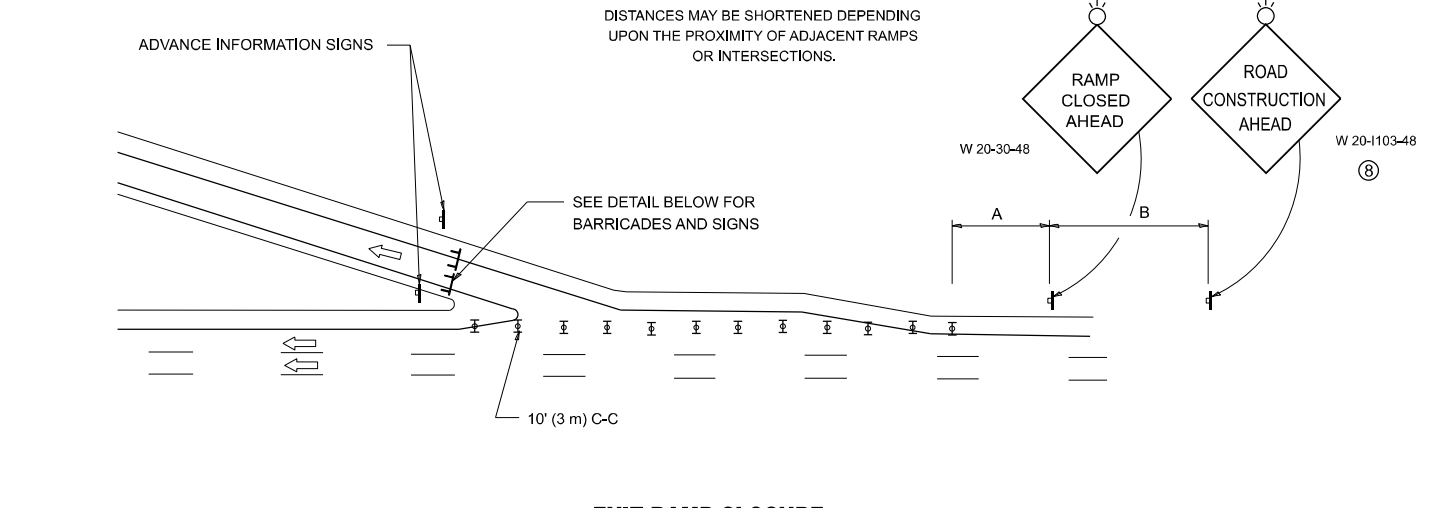


ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

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

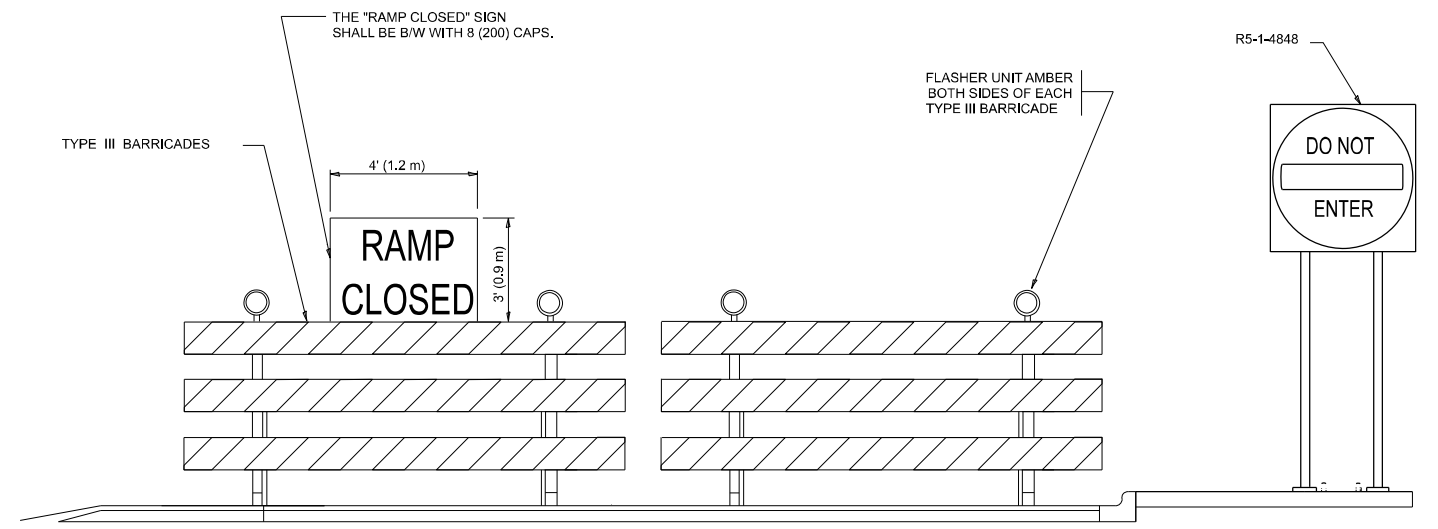
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMP OR INTERSECTIONS.



EXIT RAMP CLOSURE

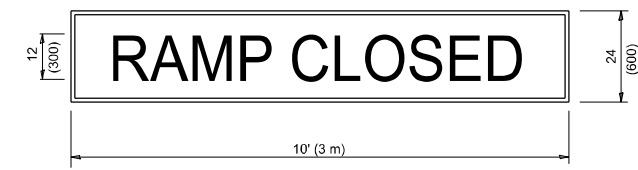
SYMBOLS

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



DETAIL FOR REQUIRED BARRICADES & SIGNS

RAMP CLOSURE ADVANCE WARNING SIGN

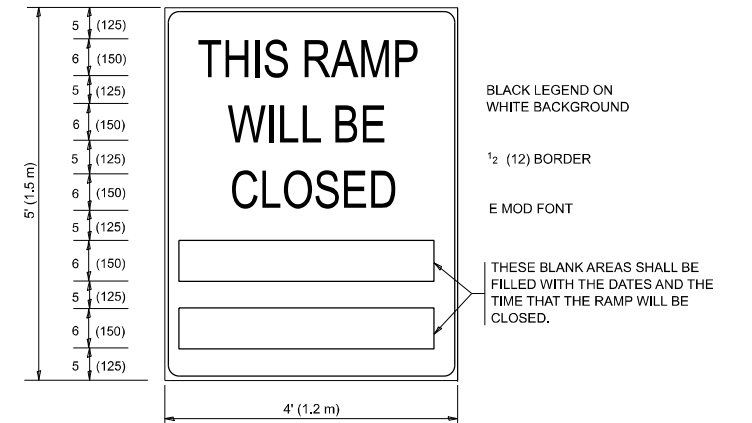


BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY
 E MOD FONT
 1 (25) BORDER

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

THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.
 THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

RAMP CLOSURE ADVANCE INFORMATION SIGN



BLACK LEGEND ON WHITE BACKGROUND
 1/2 (12) BORDER
 E MOD FONT

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

GENERAL NOTES:

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

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

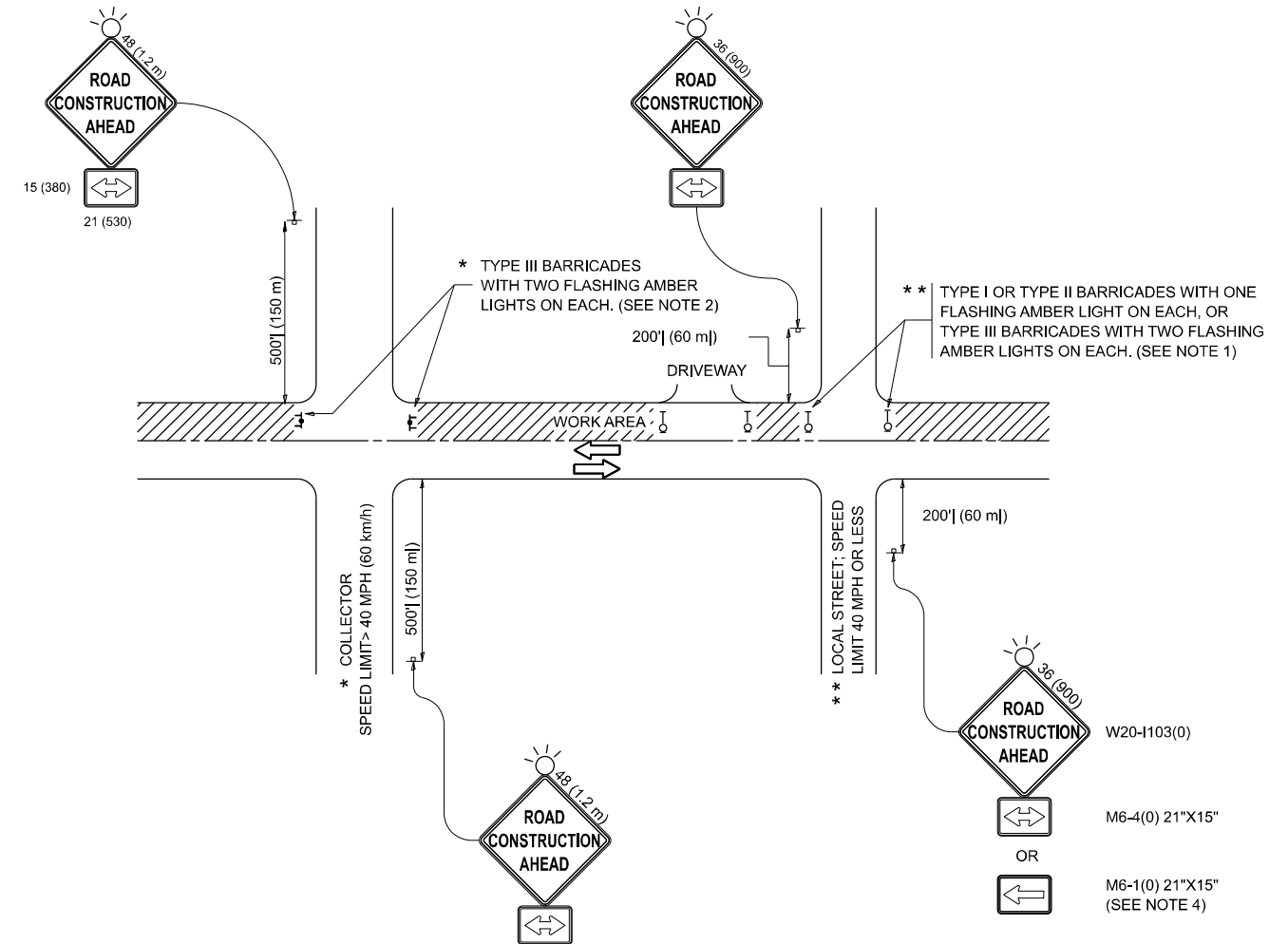
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PLOT SCALE = 0.16666633' / in.	CHECKED - AAA	REVISOR - RM3_01-18
PLOT DATE = 6/28/2024	DATE - 02/03/XX	REVISOR - BUS1_05-24

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ENTRANCE AND EXIT RAMP
 CLOSURE DETAILS**

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	FAP 0399 22 RS	COOK	51	36
TC-08		CONTRACT NO. 62T11		
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) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

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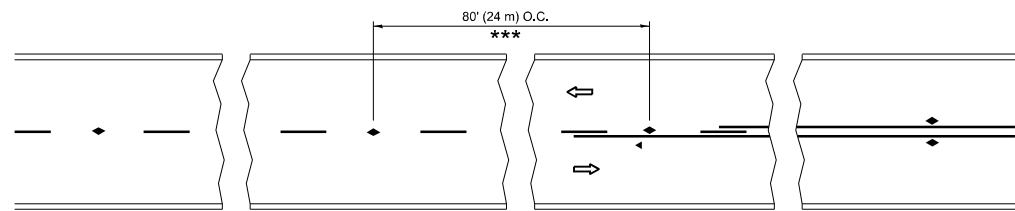
USER NAME = Jacob.Roth	DESIGNED - BJB.A	REVISED - T. RAMMACHER 01-06-00
PLOT SCALE = 0.16666833" / in.	CHECKED - AAA	REVISED - A. SROJIZETZE 07-01-13
PLOT DATE = 6/28/2024	DATE - 00/00/XX	REVISED - A. SROJIZETZE 09-15-06
		REVISED - D. SANDERAK 05-03-24

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

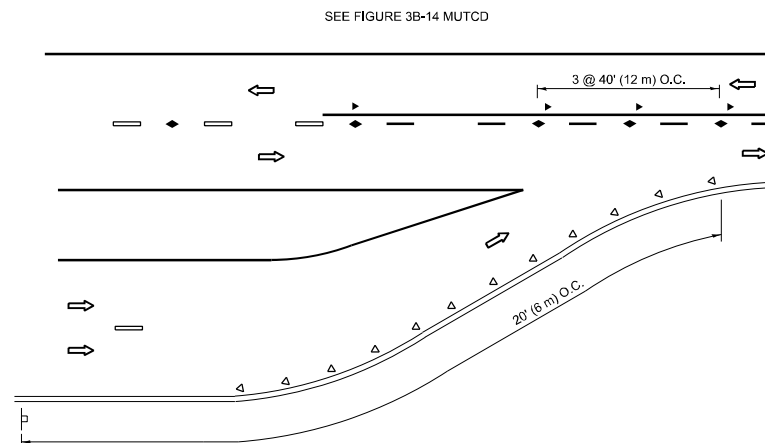
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	FAP 0399 22 RS	COOK	51	37
TC-10			CONTRACT NO. 62T11	
ILLINOIS FED. AID PROJECT				

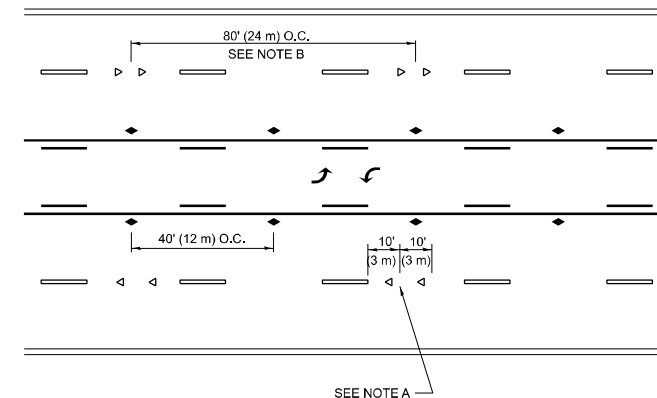


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

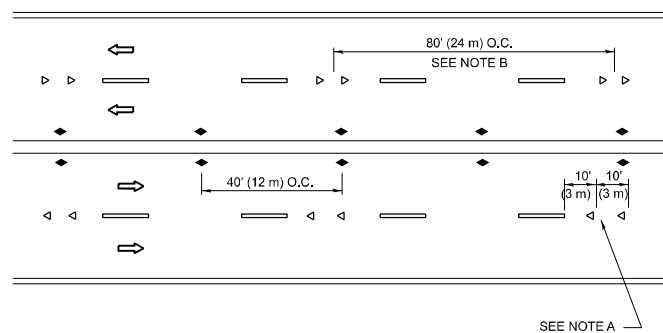
TWO-LANE/TWO-WAY



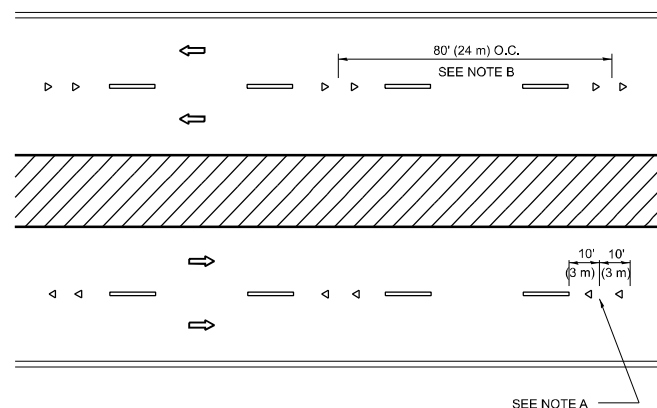
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

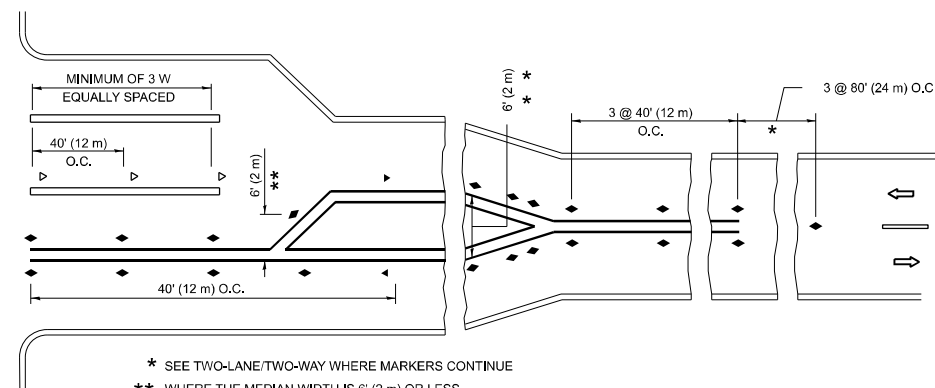
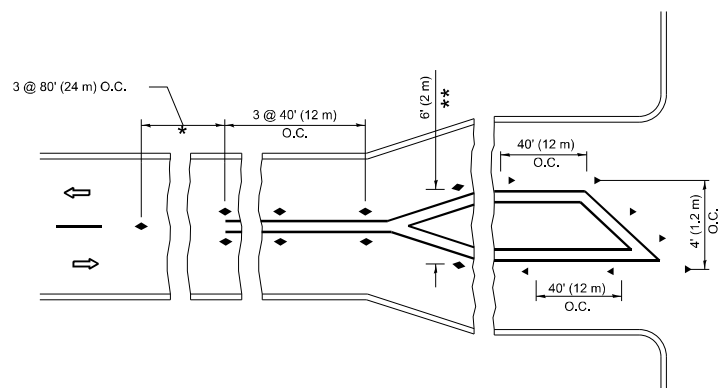
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

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

DESIGN NOTES

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



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

TURN LANES

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

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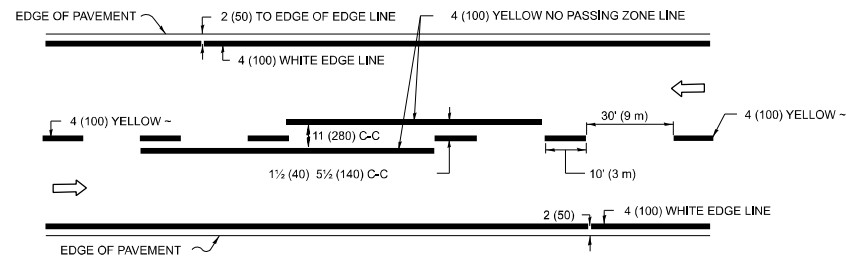
USER NAME = Jacob.Roth	DESIGNED - BBB	REVISED - T. RAMMACHER 03-12-99
DRAWN - CCC	REVISED - T. RAMMACHER 01-06-00	
PLOT SCALE = 0.16666633' / in.	CHECKED - AAA	REVISED - BJUCIUS 09-09-09
PLOT DATE = 6/28/2024	DATE - XX/XX/XX	REVISED - BJUCIUS 07-01-13

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

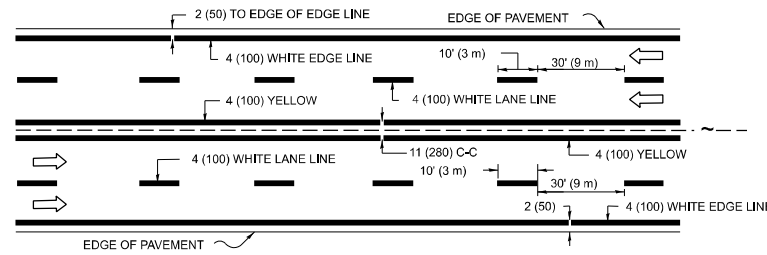
TYPICAL APPLICATIONS
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

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

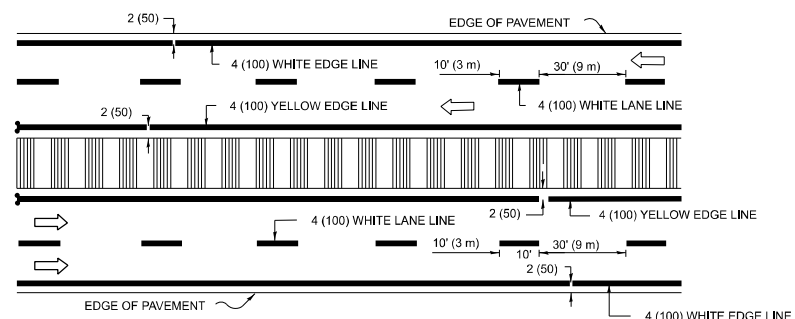
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	FAP 0399 22 RS	COOK	51	38
TC-11			CONTRACT NO. 62T11	
ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

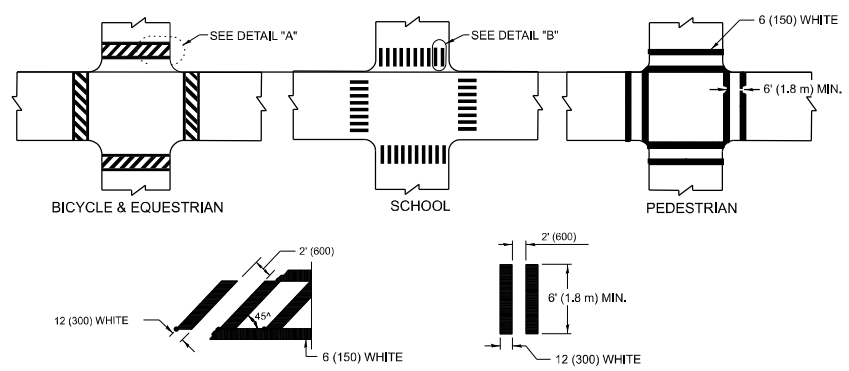


MULTI-LANE UNDIVIDED



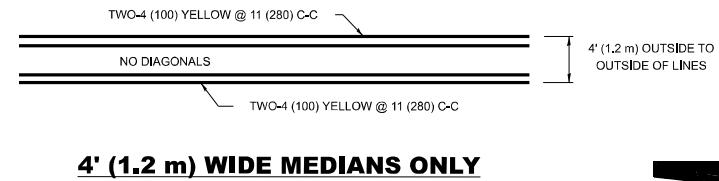
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

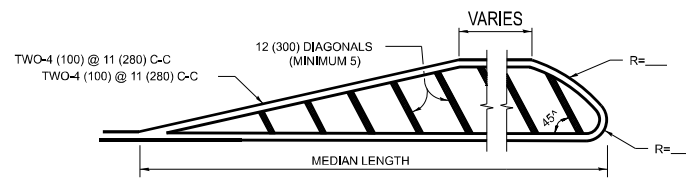


DETAIL "A" TYPICAL CROSSWALK MARKING

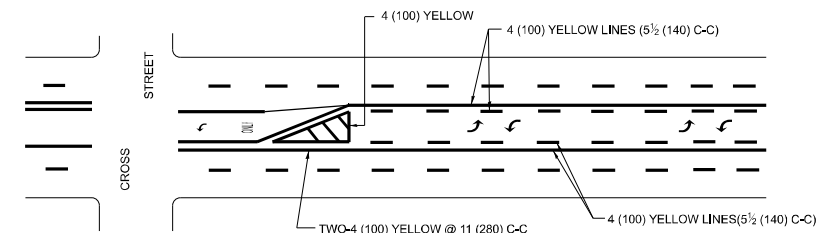
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



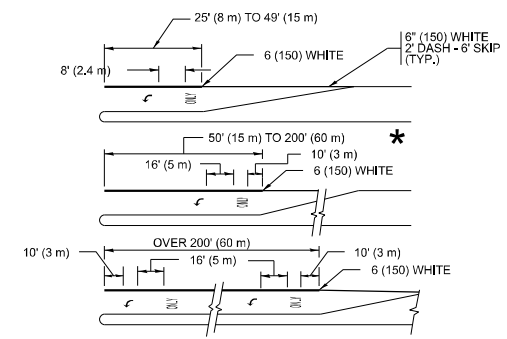
4' (1.2 m) WIDE MEDIANS ONLY



MEDIANS OVER 4' (1.2 m) WIDE

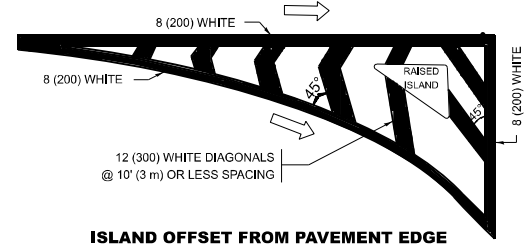


MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING

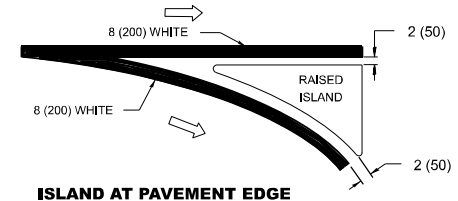


TYPICAL LEFT (OR RIGHT) TURN LANE

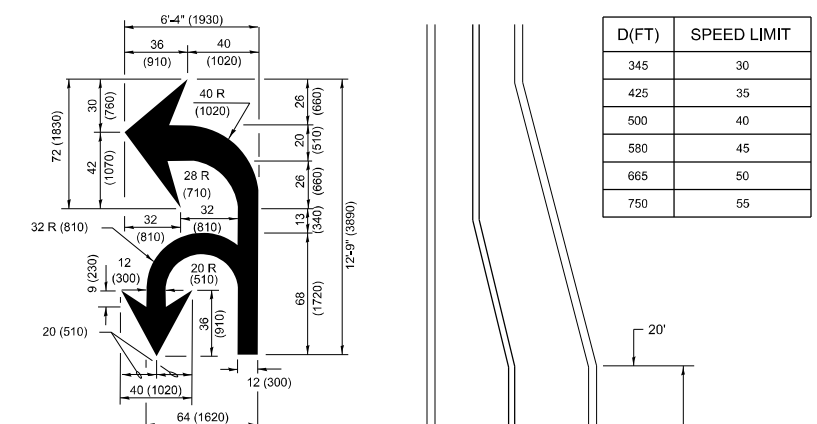
TYPICAL TURN LANE MARKING



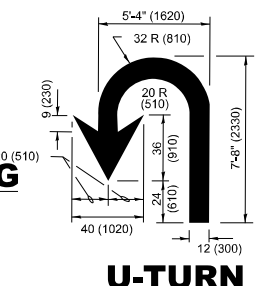
ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

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

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE-FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C (30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES: "RR" IS 6' (1.8 m) LETTERS: 15 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: *R*=3.6 SQ. FT. (0.33 m ²) EACH *X*=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

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

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DRAWN - CCC	REVISED - BVJUCIUS 07-01-13	
PLOT SCALE = 0.16666633 / in.	CHECKED - AAA	REVISED - BVJUCIUS 12-21-15
PLOT DATE = 6/28/2024	DATE - 02/09/2024	REVISED - BVJUCIUS 04-12-16

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TYPICAL PAVEMENT MARKINGS		339	FAP 0399 22 RS	COOK	51	39
SCALE: NONE	SHEET 1 OF 1 SHEETS	STA.	TO STA.	TC-13 CONTRACT NO. 62T11		

ILLINOIS	FED. AID PROJECT
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TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

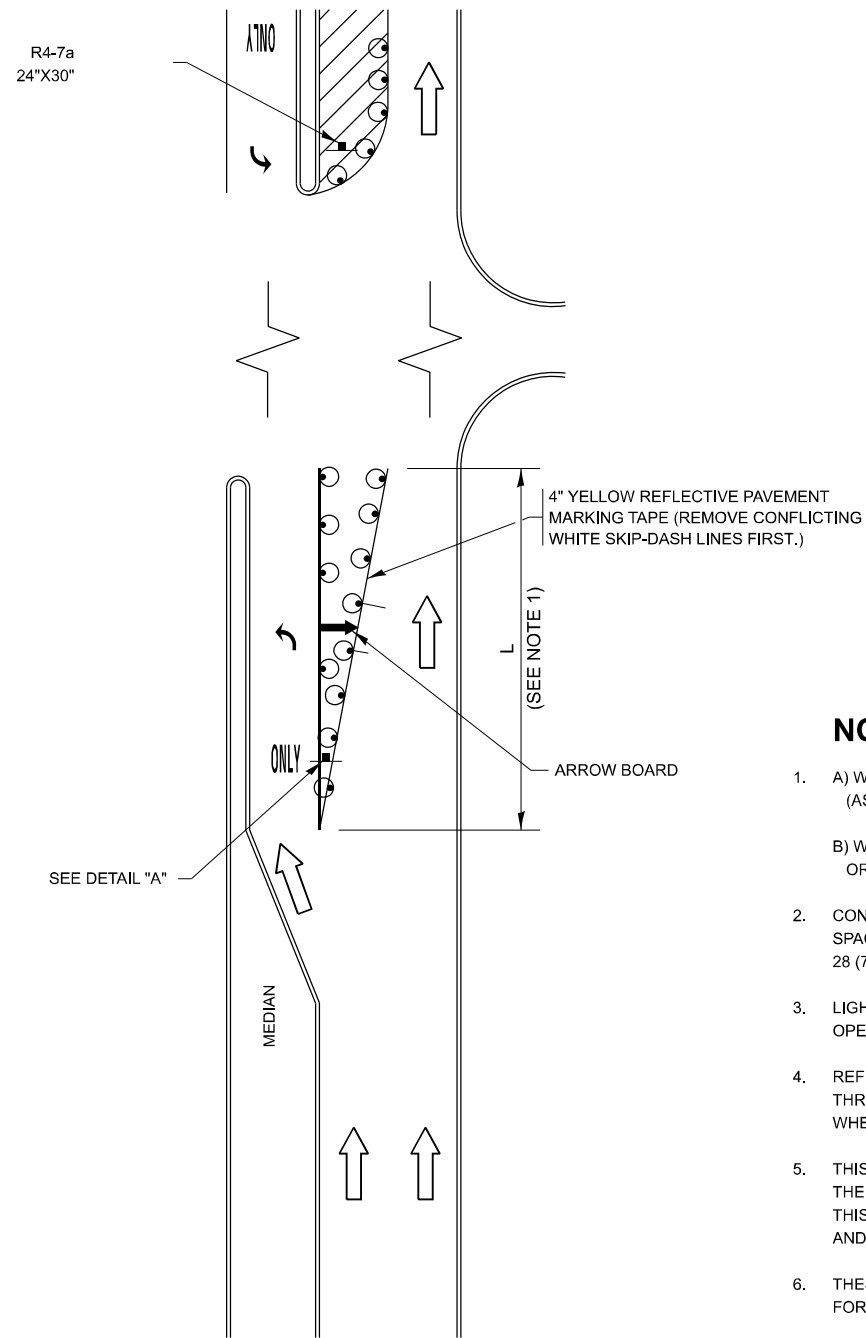


FIGURE 1

LEGEND

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

NOTES:

1. A) WHEN "L" IS \leq THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
B) WHEN "L" IS $>$ THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-1100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH REQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

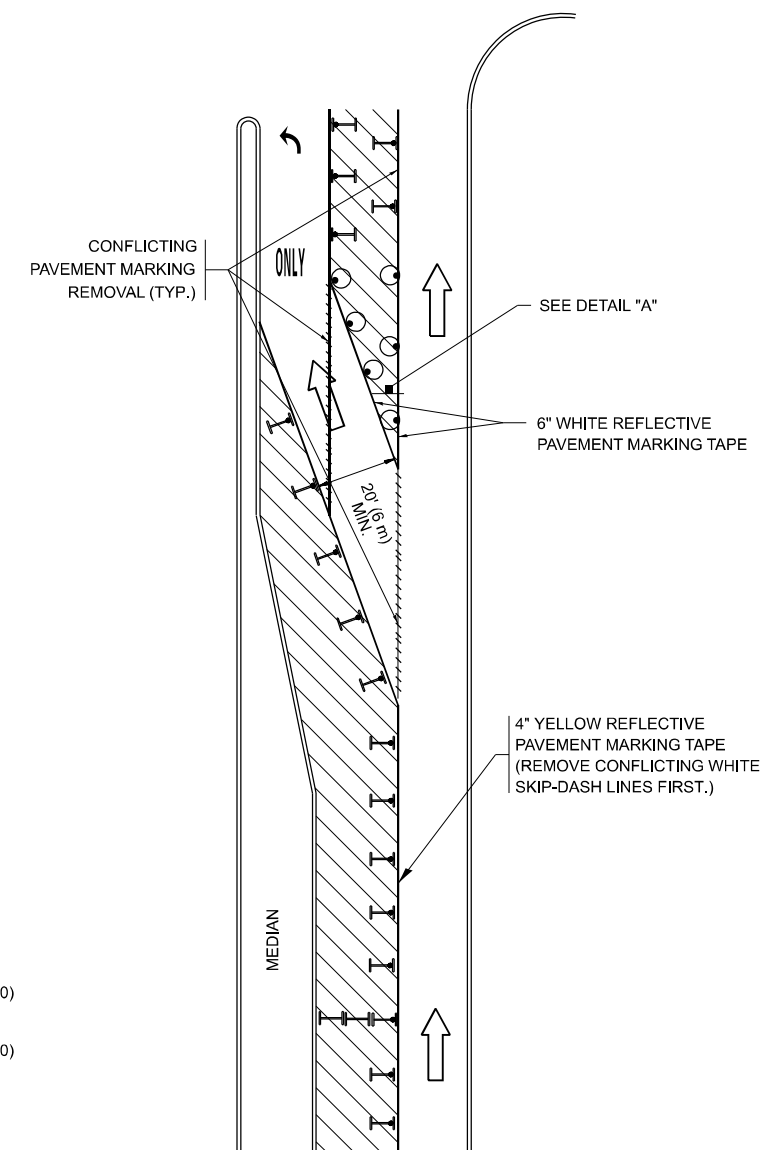
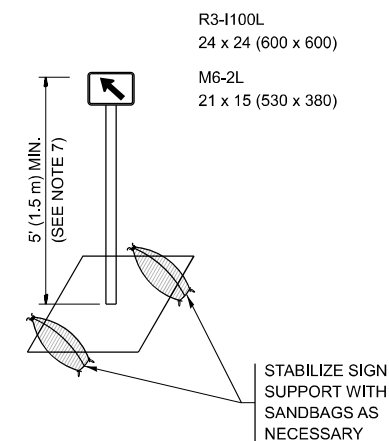


FIGURE 2



DETAIL A

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

MODEL: TC-14 (Sheet)
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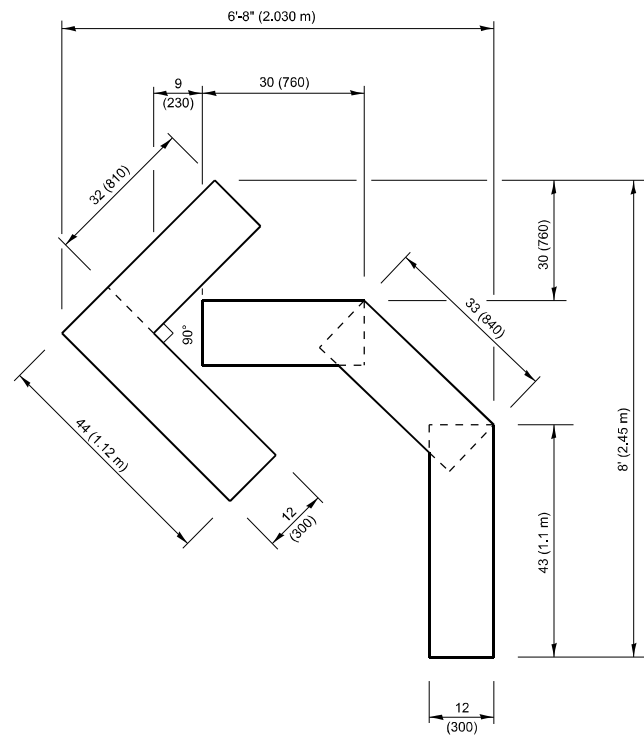
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DRAWN - A. SEYMOUR 11-07-95	REVISOR - A. SEYMOUR 07-01-13	
PLOT SCALE = 0.16666633' / in.	CHECKED - A. SEYMOUR 10-12-96	REVISED - A. SEYMOUR 09-15-16
PLOT DATE = 6/28/2024	DATE - T. F. RUMMELMAYER 01-06-00	REVISED - RV4

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

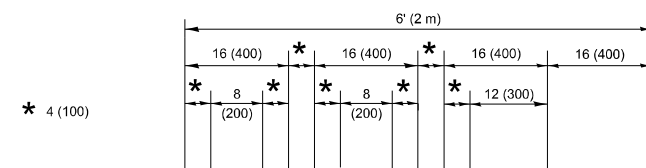
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-14			CONTRACT NO. 62T11	
ILLINOIS FED. AID PROJECT				



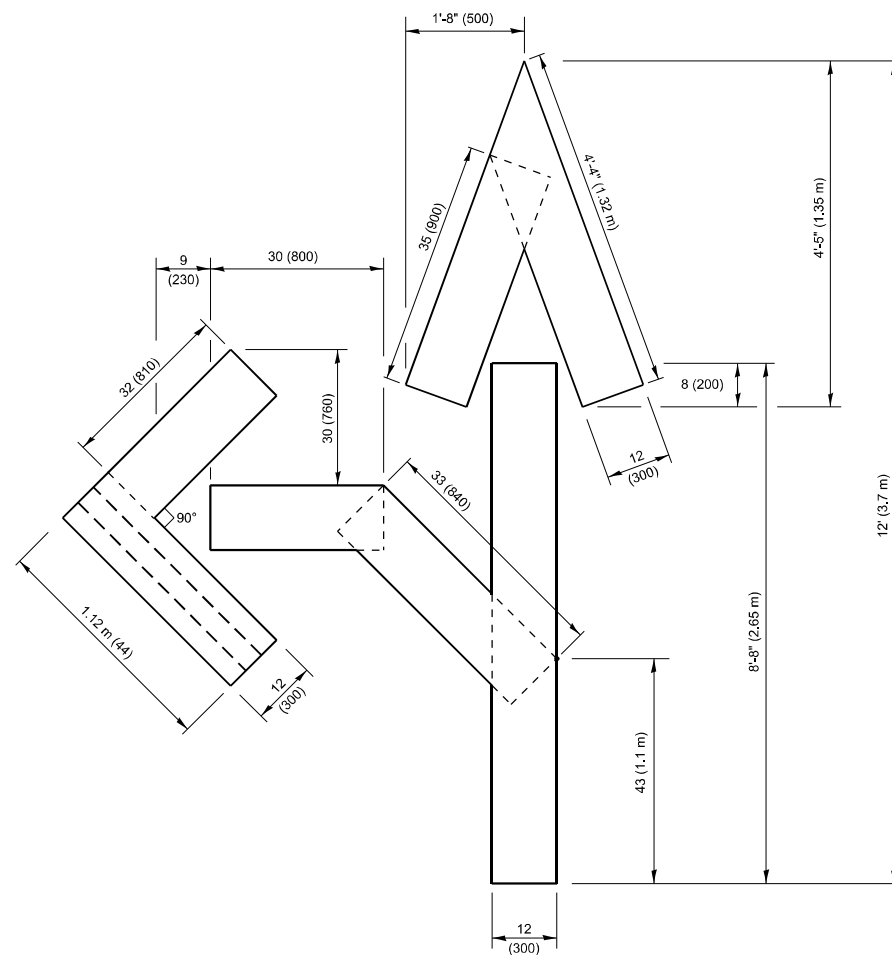
QUANTITY

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



QUANTITY

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

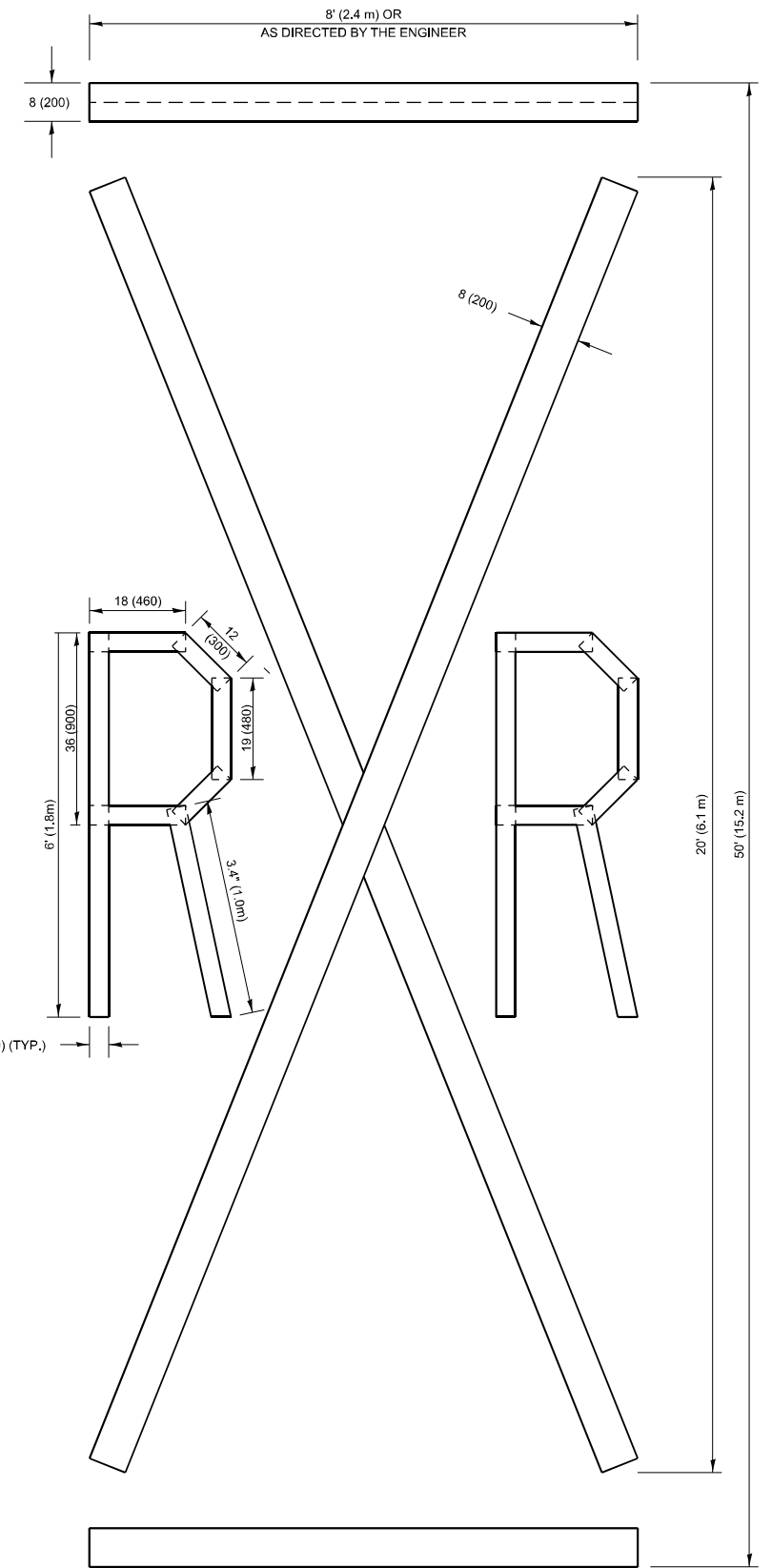


QUANTITY

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

NOTE:

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



QUANTITY

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

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

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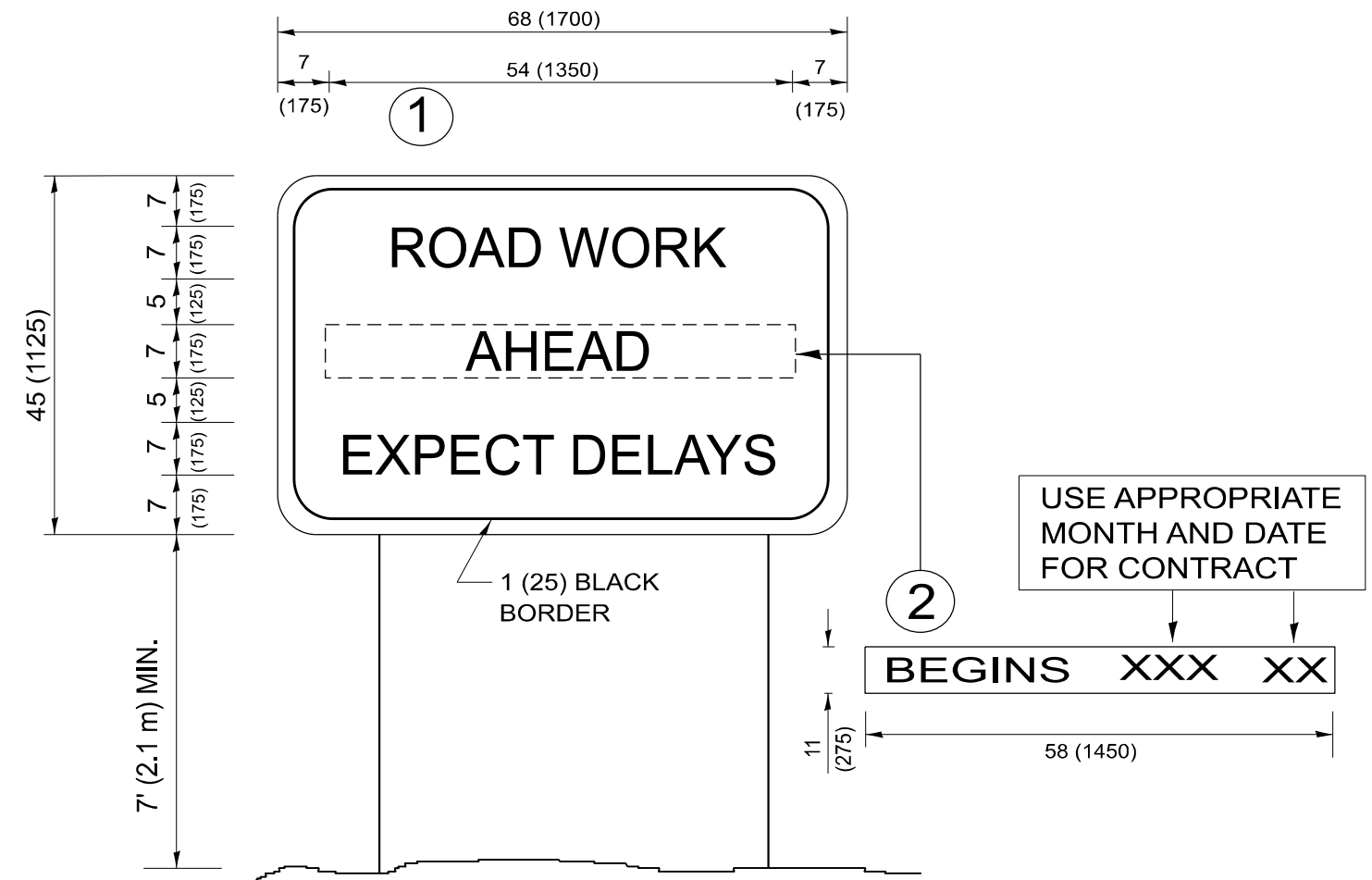
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DRAWN - CCC	REVISED - E. GOMEZ 08-28-00	
PLOT SCALE = 0.16666633' / in.	CHECKED - AAA	REVISED - E. GOMEZ 08-28-00
PLOT DATE = 6/28/2024	DATE - 06/28/2024	REVISED - A. S. WUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	FAP 0399 22 RS	COOK	51	41
TC-16		CONTRACT NO. 62T11		
ILLINOIS FED. AID PROJECT				



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

MODEL: TC-22 (Sheet)
FILE NAME: c:\p\work\work\control\p\0931886\124022-21h-Dist\Std.dgn

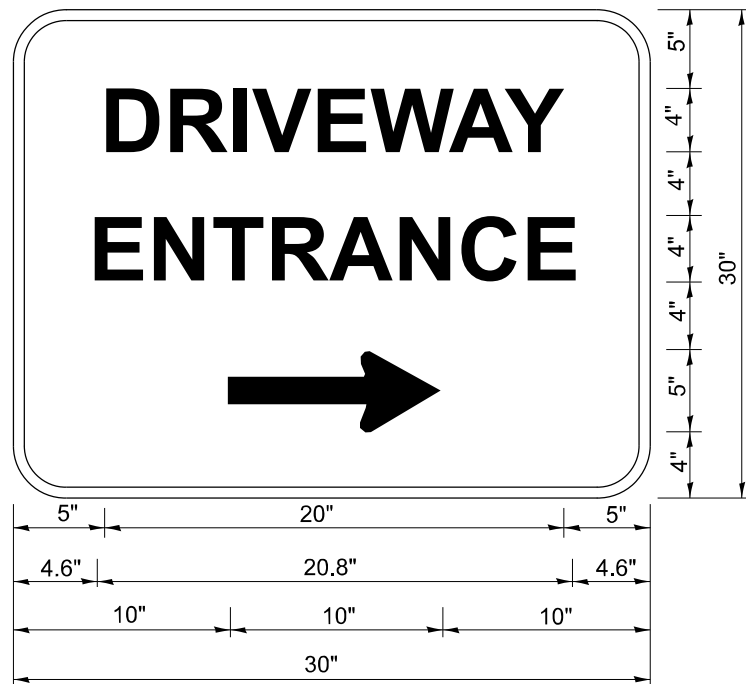
USER NAME = Jacob.Roth	DESIGNED - BBB	REVISED - R/MIRS 09-15-97
	DRAWN - CCC	REVISED - R/MIRS 12-11-97
PLOT SCALE = 0.16666633' / in.	CHECKED - AAA	REVISED - T. RACHNER 02-02-99
PLOT DATE = 6/28/2024	DATE - XX/XX/XX	REVISED - B. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	FAP 0399 22 RS	COOK	51	42
TC-22			CONTRACT NO. 62T11	
ILLINOIS FED. AID PROJECT				



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

NOTES:

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

MODEL: TC-26 (Sheet)
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USER NAME = Jacob.Roth	DESIGNED - BBB	REVISED - B\JUCIUS 02-15-07
	DRAWN - CCC	REVISED - RV2
PLOT SCALE = 0.16666633 / in.	CHECKED - AAA	REVISED - RV3
PLOT DATE = 6/28/2024	DATE - XX/XX/XX	REVISED - RV4

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DRIVEWAY ENTRANCE SIGNING

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	FAP 0399 22 RS	COOK	51	43
TC-26			CONTRACT NO. 62T11	
ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

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

MODEL: TS-05a (Sheet)
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USER NAME = Jacob.Roth	DESIGNED - BBB	REVISED - RV1
DRAWN - ECC	REVISED - RV2	
PLOT SCALE = 0.16666633' / in.	CHECKED - BPA	REVISED - RV3
PLOT DATE = 6/28/2024	DATE - 8/28/2024	REVISED - RV4

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

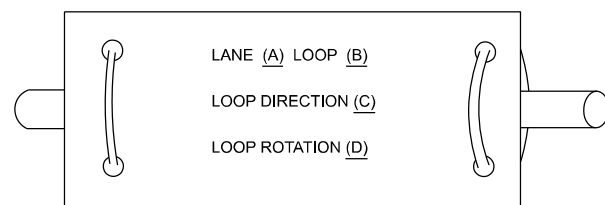
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TS-05		CONTRACT NO. 62T11		
ILLINOIS FED. AID PROJECT				

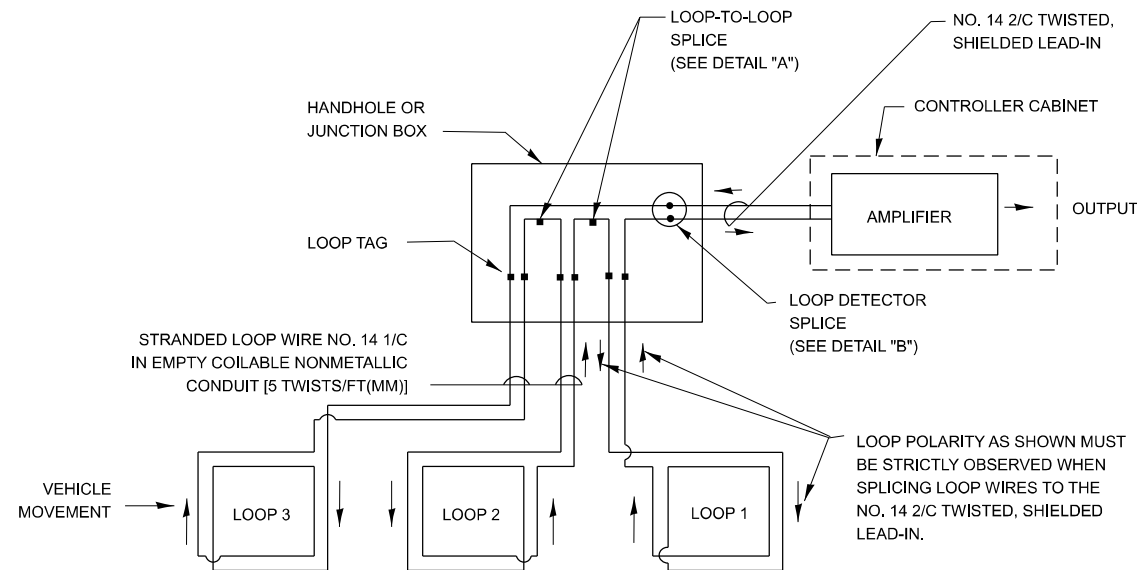
LOOP DETECTOR NOTES

- EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND 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.
- LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

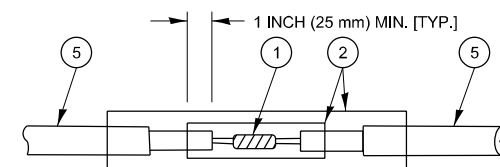


- LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

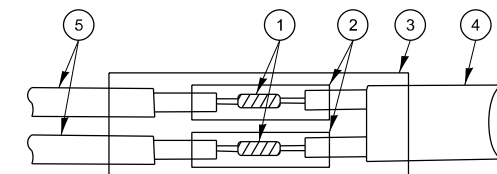


DETECTOR LOOP WIRING SCHEMATIC

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

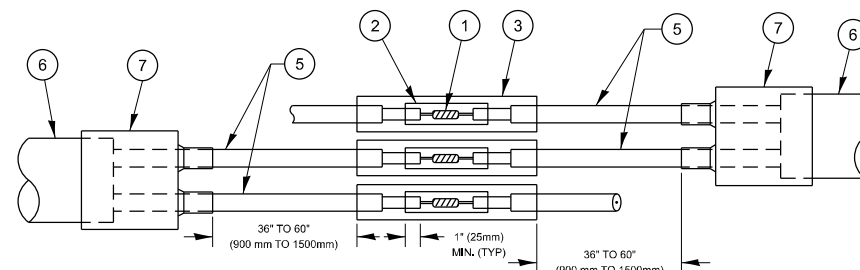


**DETAIL "A"
LOOP-TO-LOOP SPLICE**

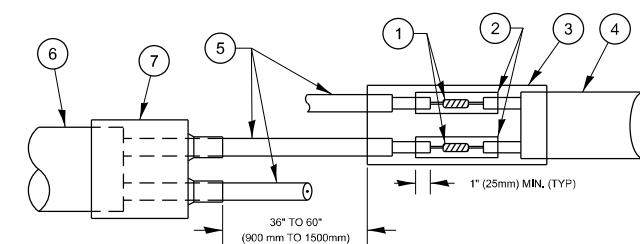


**DETAIL "B"
LOOP-TO-CONTROLLER SPLICE**

TYPE I LOOP



**DETAIL "A"
LOOP-TO-LOOP SPLICE**



**DETAIL "B"
LOOP-TO-CONTROLLER SPLICE**

PRE-FORMED LOOP

LOOP DETECTOR SPLICE

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

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	DRAWN - CCC	REVISED - RV2
PLOT SCALE = 0.16666833 / in.	CHECKED - AAA	REVISED - RV3
PLOT DATE = 6/28/2024	DATE - XX/XX/XX	REVISED - RV4

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

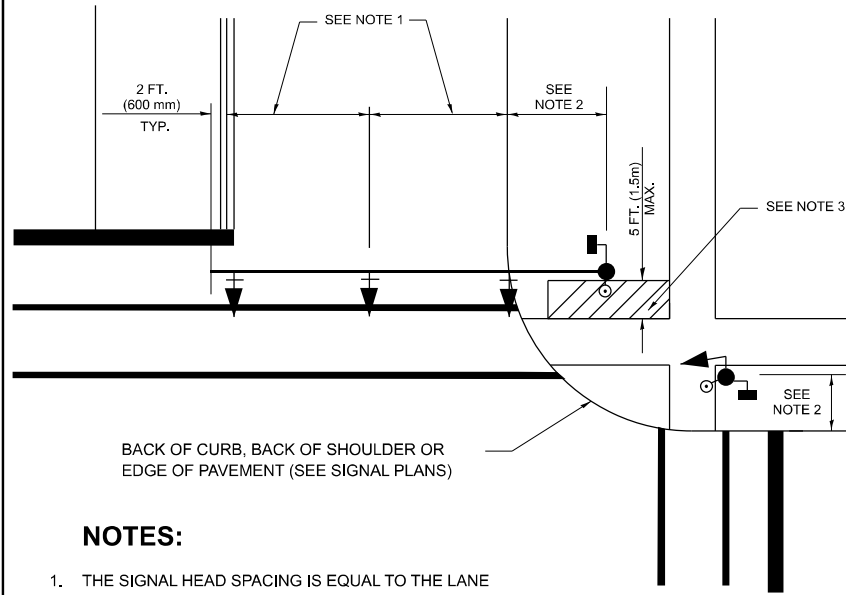
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

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F.A.P. RTE. 339	SECTION FAP 0399 22 RS	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 45
TS-05		CONTRACT NO. 62T11		
ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

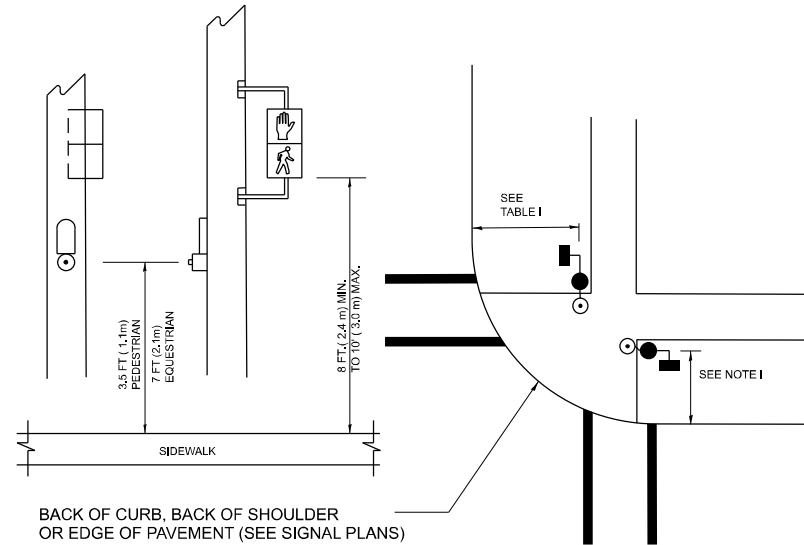
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



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."

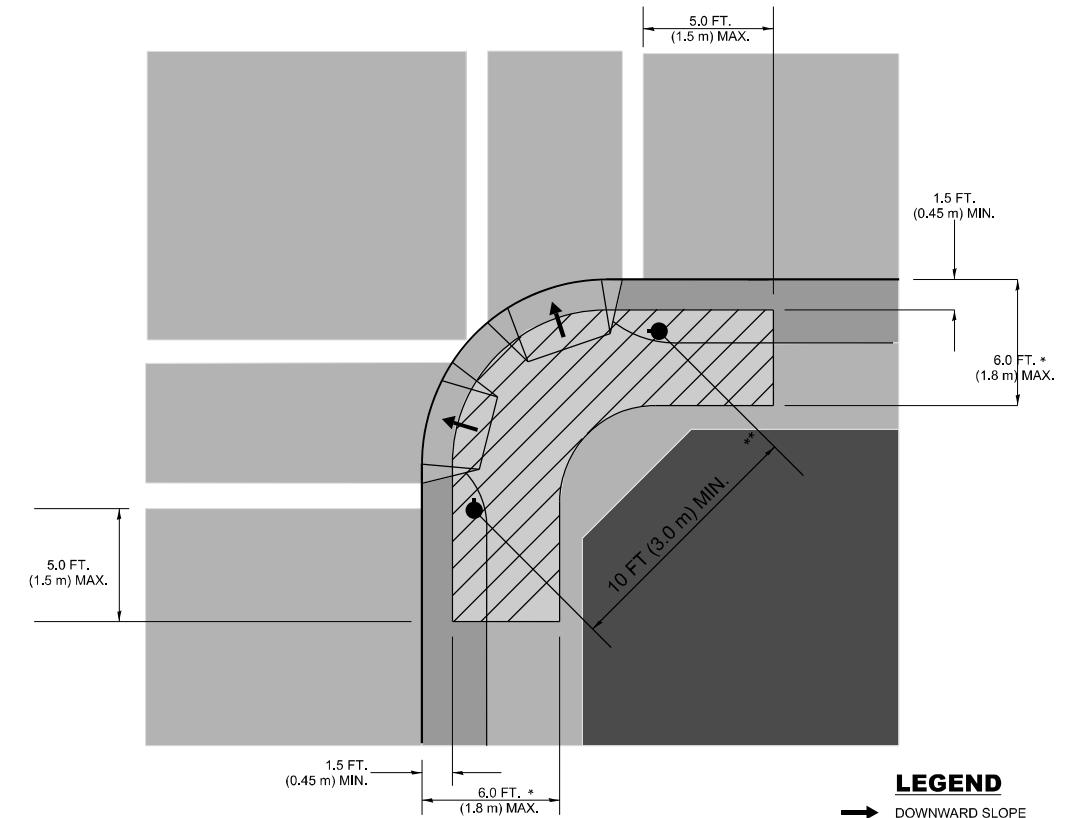
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



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.

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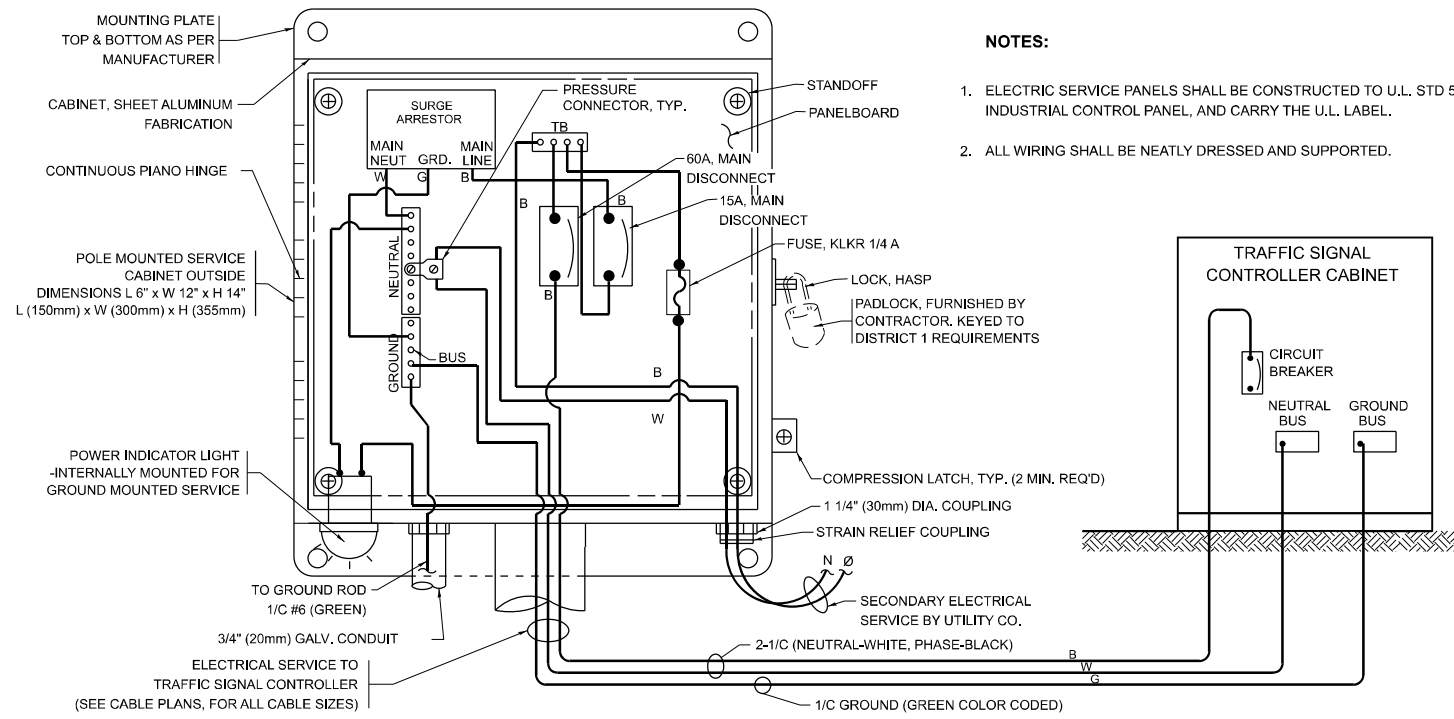
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

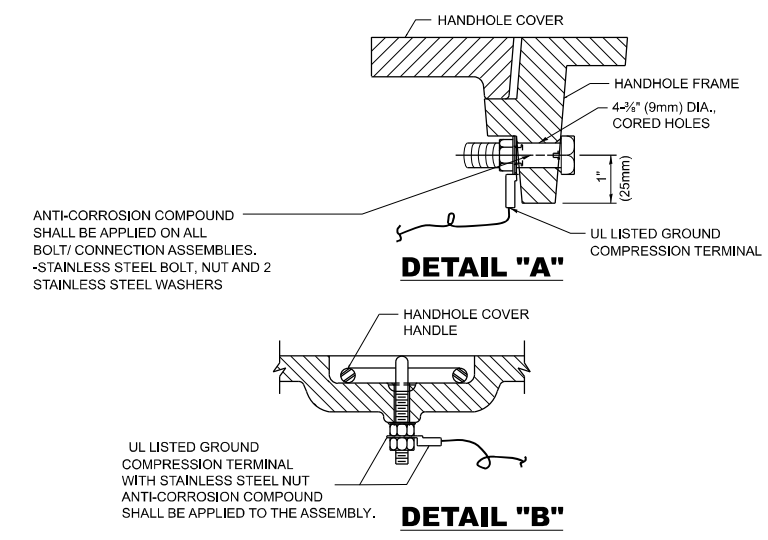
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	FAP 0399 22 RS	COOK	51	46
TS-05		CONTRACT NO. 62T11		
ILLINOIS FED. AID PROJECT				

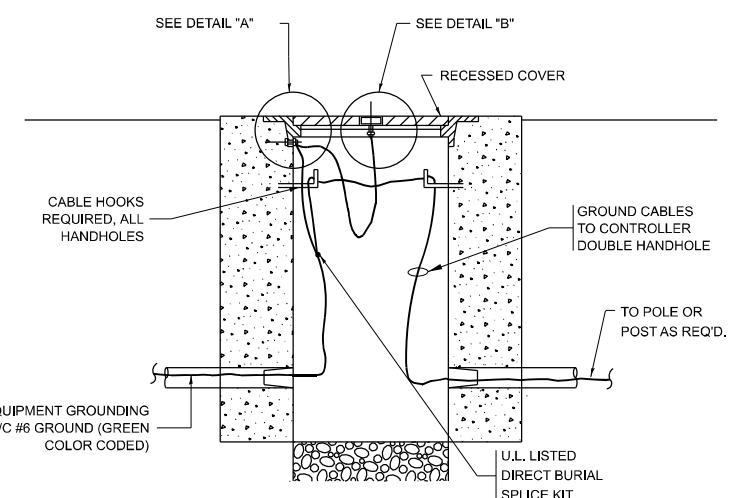


- NOTES:**
1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
 2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

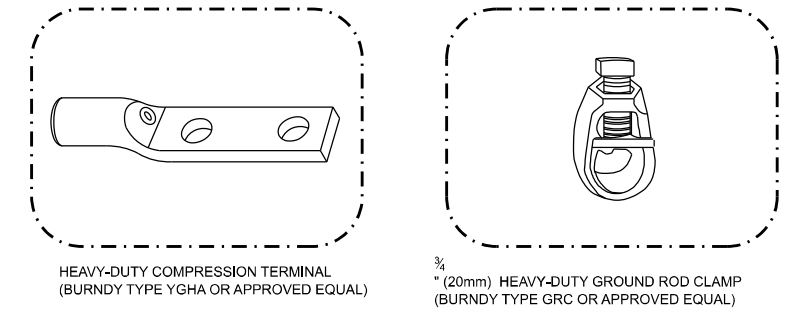


- NOTES:**
- GROUNDING SYSTEM**
1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED 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.
 2. 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.
 3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
 4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

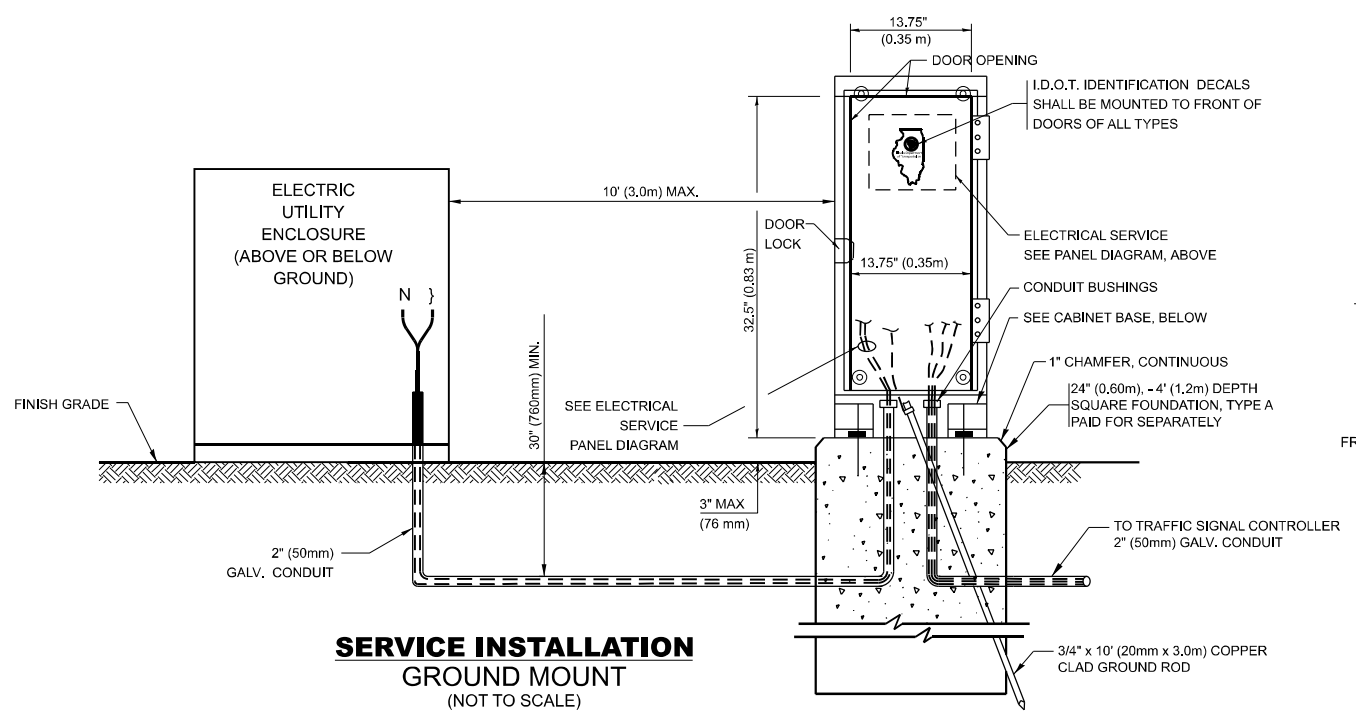
ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE) SERVICE INSTALLATION POLE MOUNT (SHOWN) (NOT TO SCALE)



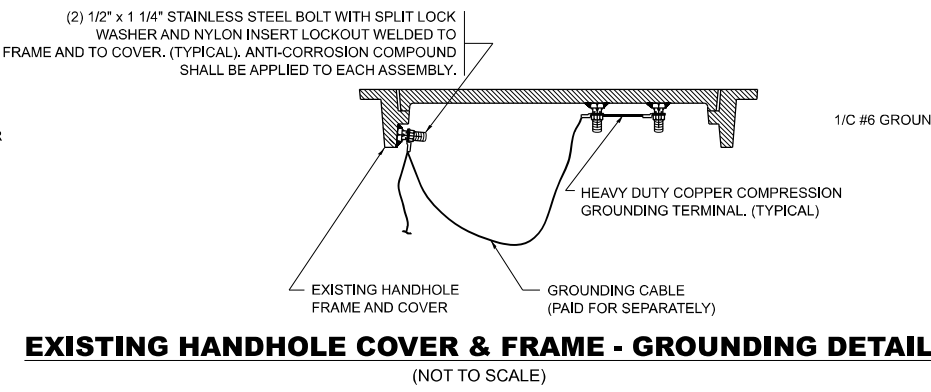
HANDHOLE COVER & FRAME - GROUNDING DETAIL (NOT TO SCALE)



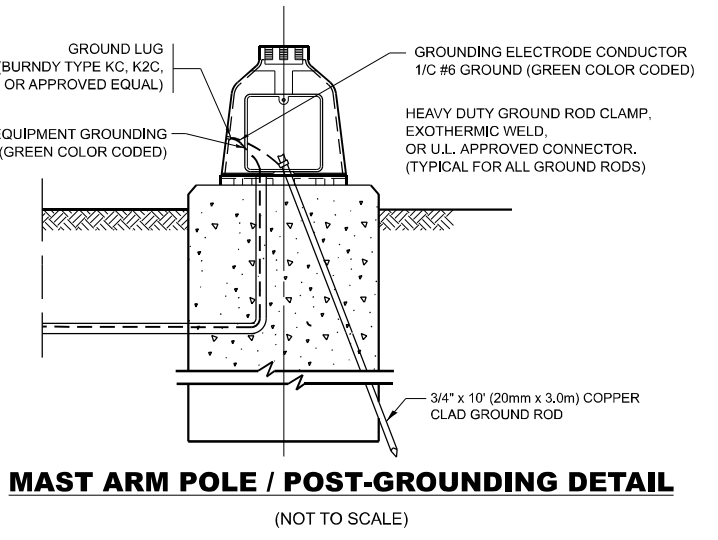
- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
 - GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES
 - 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES
 - 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES.
 - 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND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



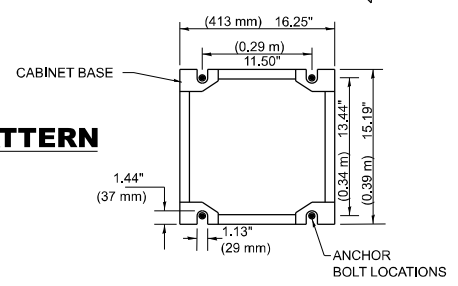
SERVICE INSTALLATION GROUND MOUNT (NOT TO SCALE)



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



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



CABINET - BASE BOLT PATTERN (NOT TO SCALE)

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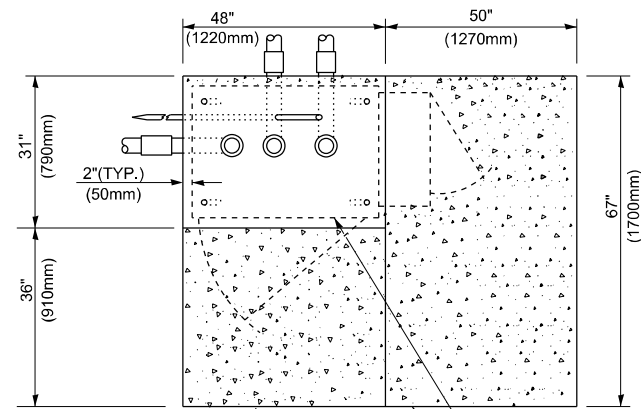
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

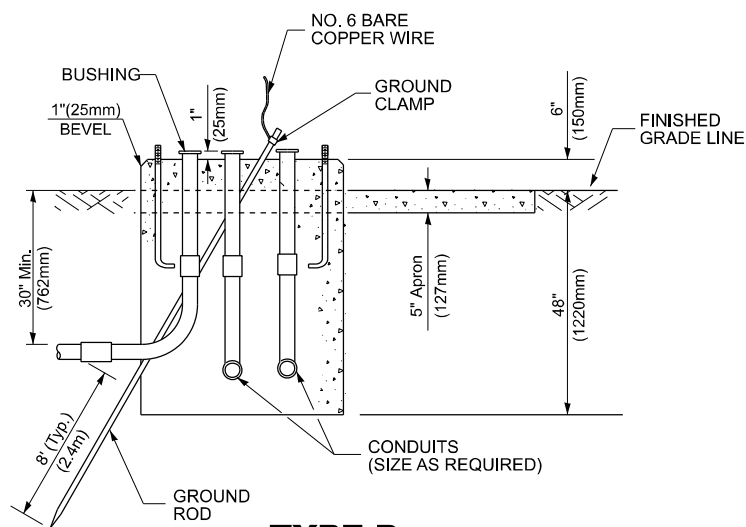
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 4 OF 7 SHEETS STA. TO STA.

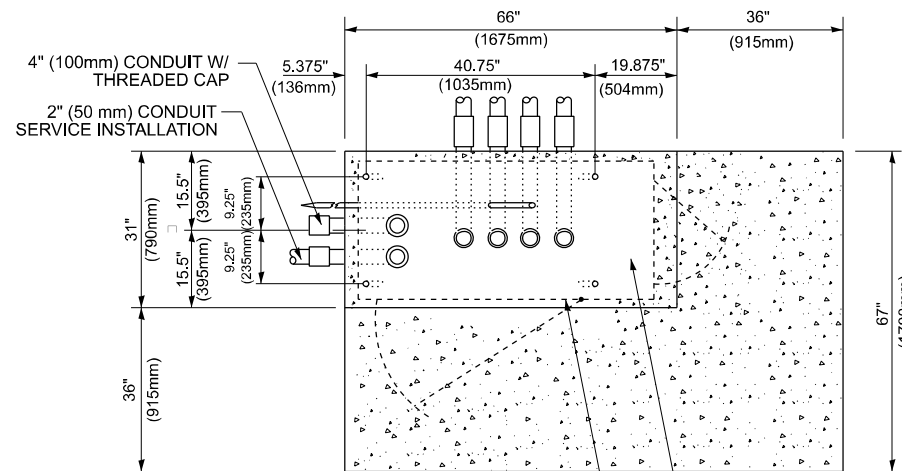
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	FAP 0399 22 RS	COOK	51	47
TS-05		CONTRACT NO. 62T11		
ILLINOIS FED. AID PROJECT				



TOP VIEW

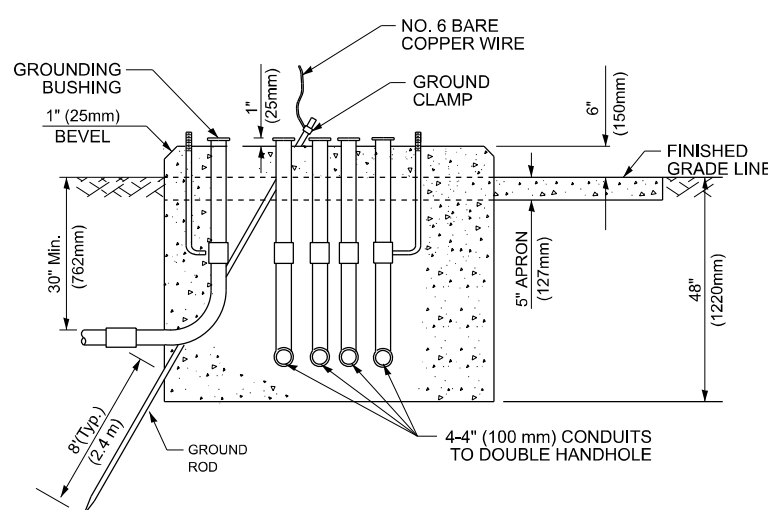


**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**

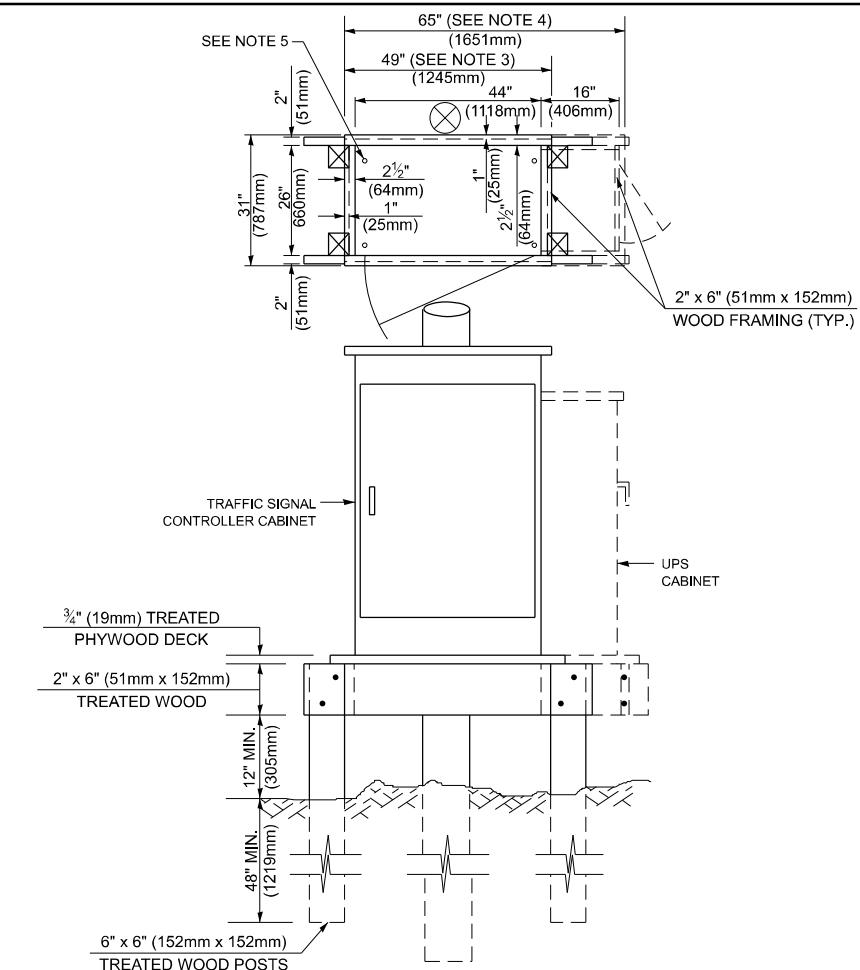


TOP VIEW

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 up to 56' (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 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

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

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

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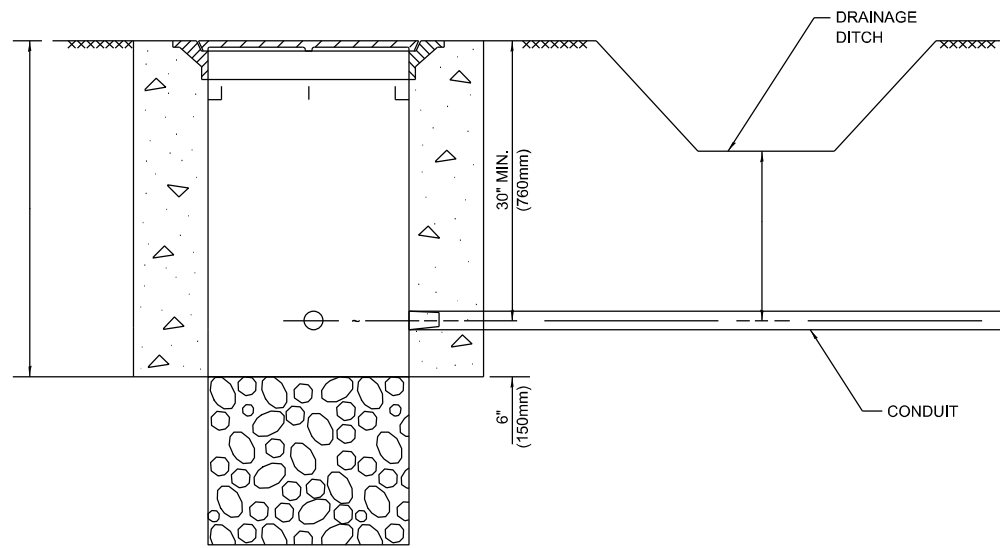
USER NAME = Jacob.Roth	DESIGNED - BBB	REVISED - RV1
PLOT SCALE = 0.16666633' / in.	DRAWN - CCC	REVISED - RV2
PLOT DATE = 6/28/2024	CHECKED - AAA	REVISED - RV3
	DATE - XX/XX/XX	REVISED - RV4

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

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

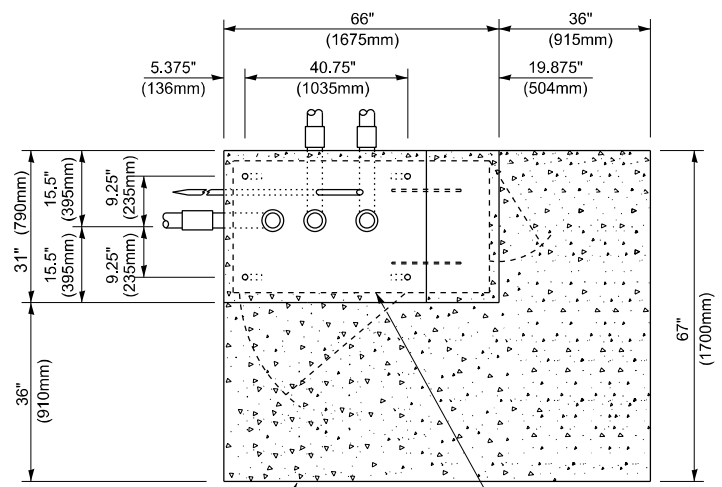
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	FAP 0399 22 RS	COOK	51	48
TS-05		CONTRACT NO. 62T11		
ILLINOIS FED. AID PROJECT				



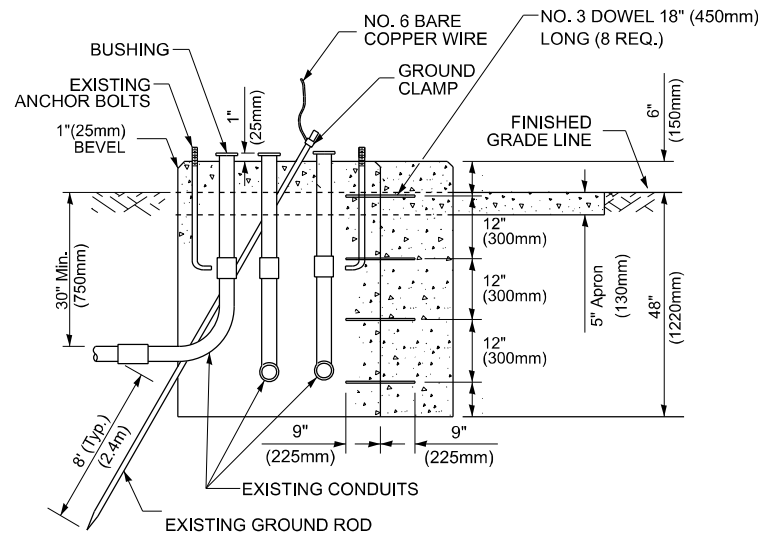
NOTES:

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.

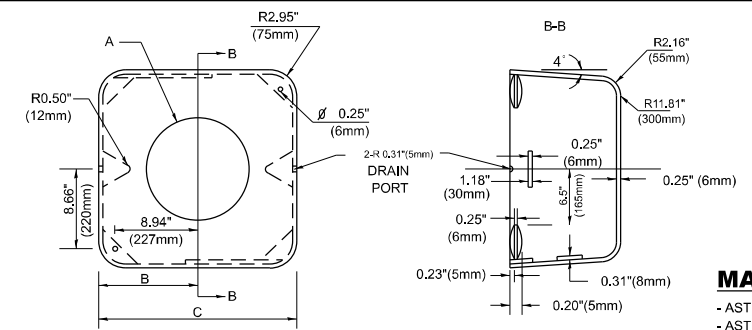
HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)



TOP VIEW
(NOT TO SCALE)



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



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

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

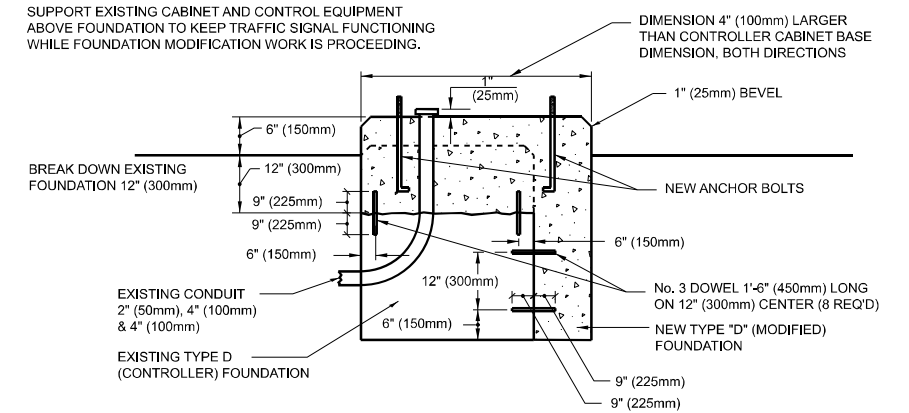
SHROUD

NOTES:

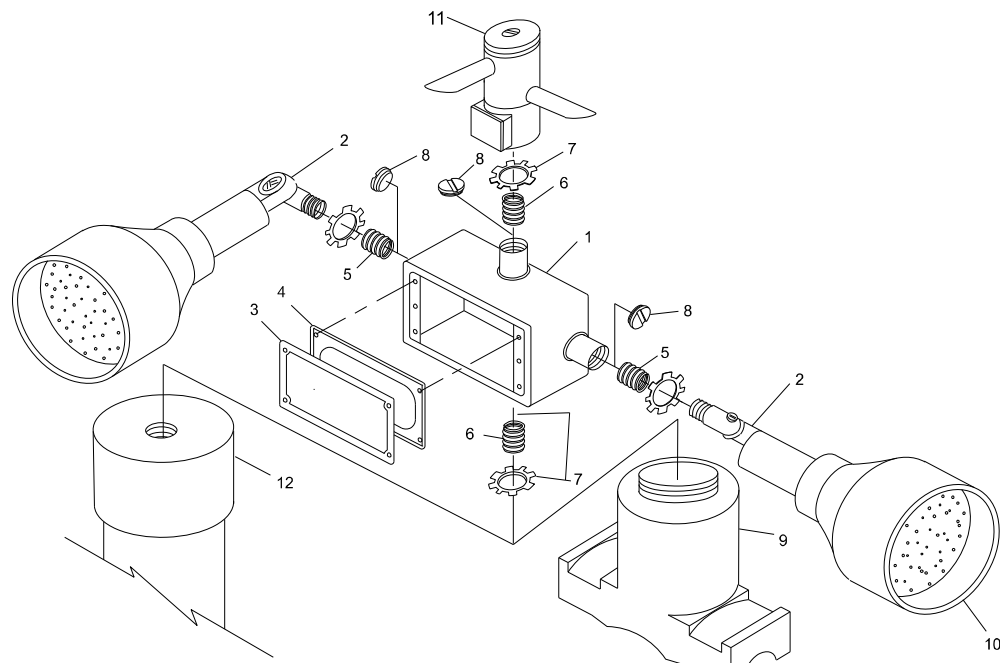
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

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

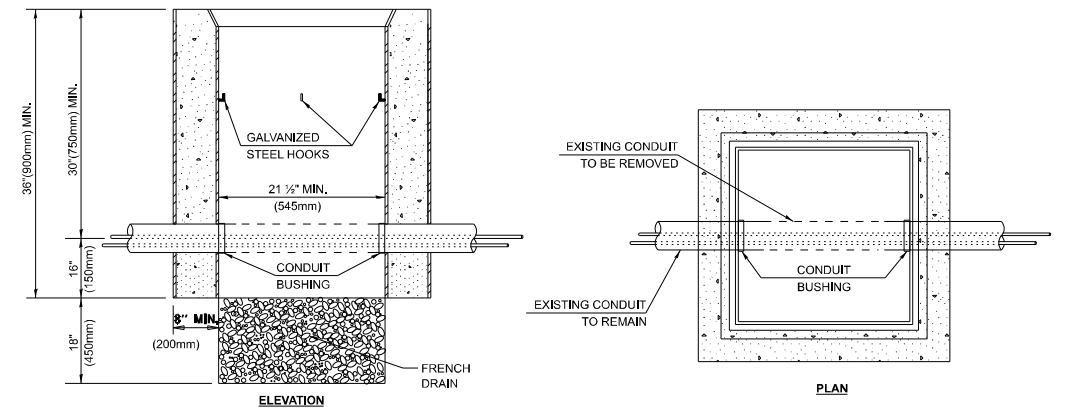


POST CAP MOUNT MAST ARM MOUNT
EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

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.



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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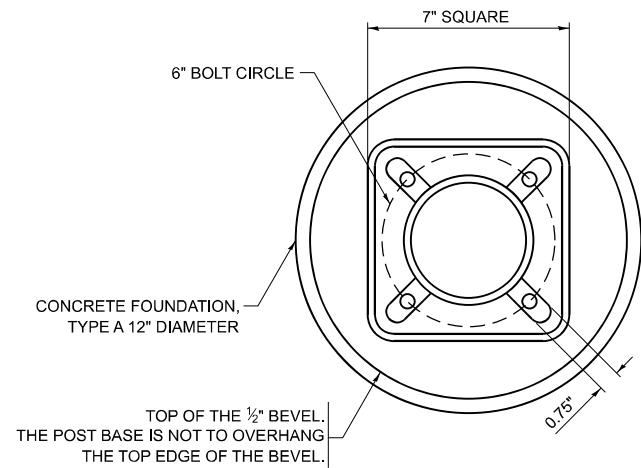
USER NAME = Jacob.Roth	DESIGNED - BBB	REVISED - RV1
DRAWN - CCC	REVISOR - RV2	
PLOT SCALE = 0.16666633' / in.	CHECKED - AAA	REVISOR - RV3
PLOT DATE = 6/28/2024	DATE - XX/XX/XX	REVISOR - RV4

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

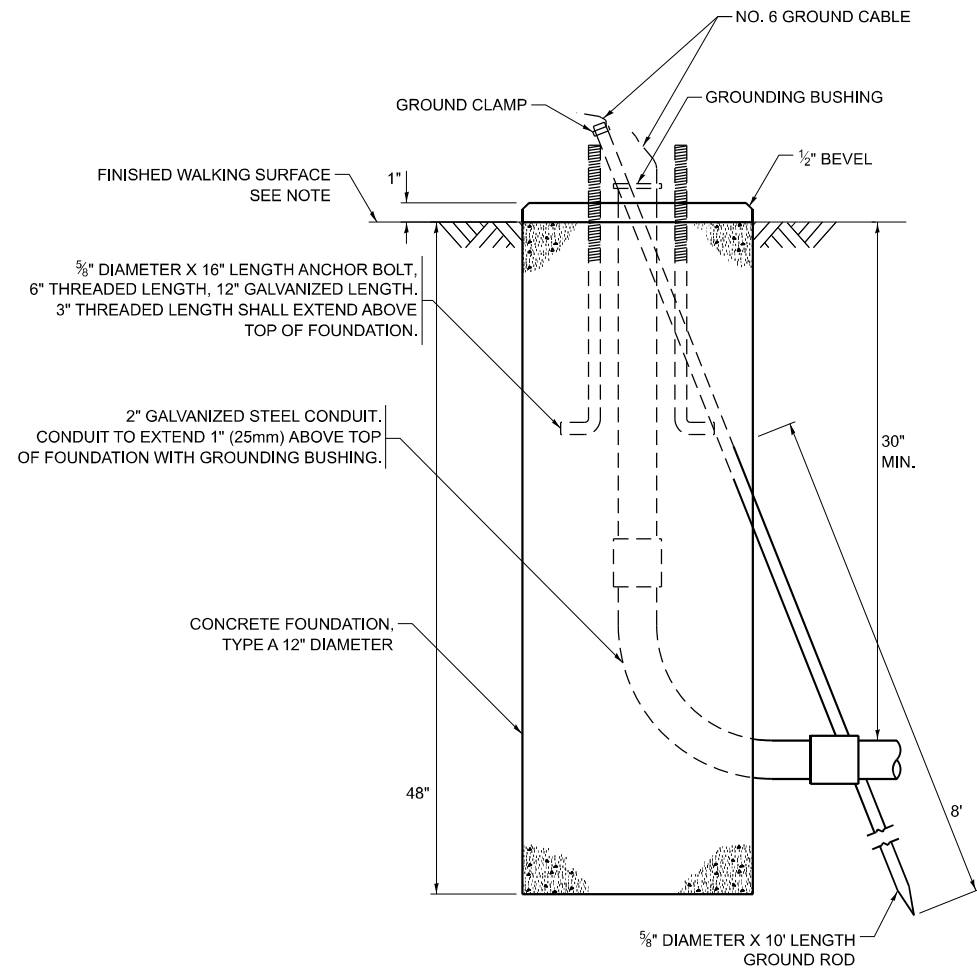
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F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	FAP 0399 22 RS	COOK	51	49
TS-05		CONTRACT NO. 62T11		
ILLINOIS FED. AID PROJECT				

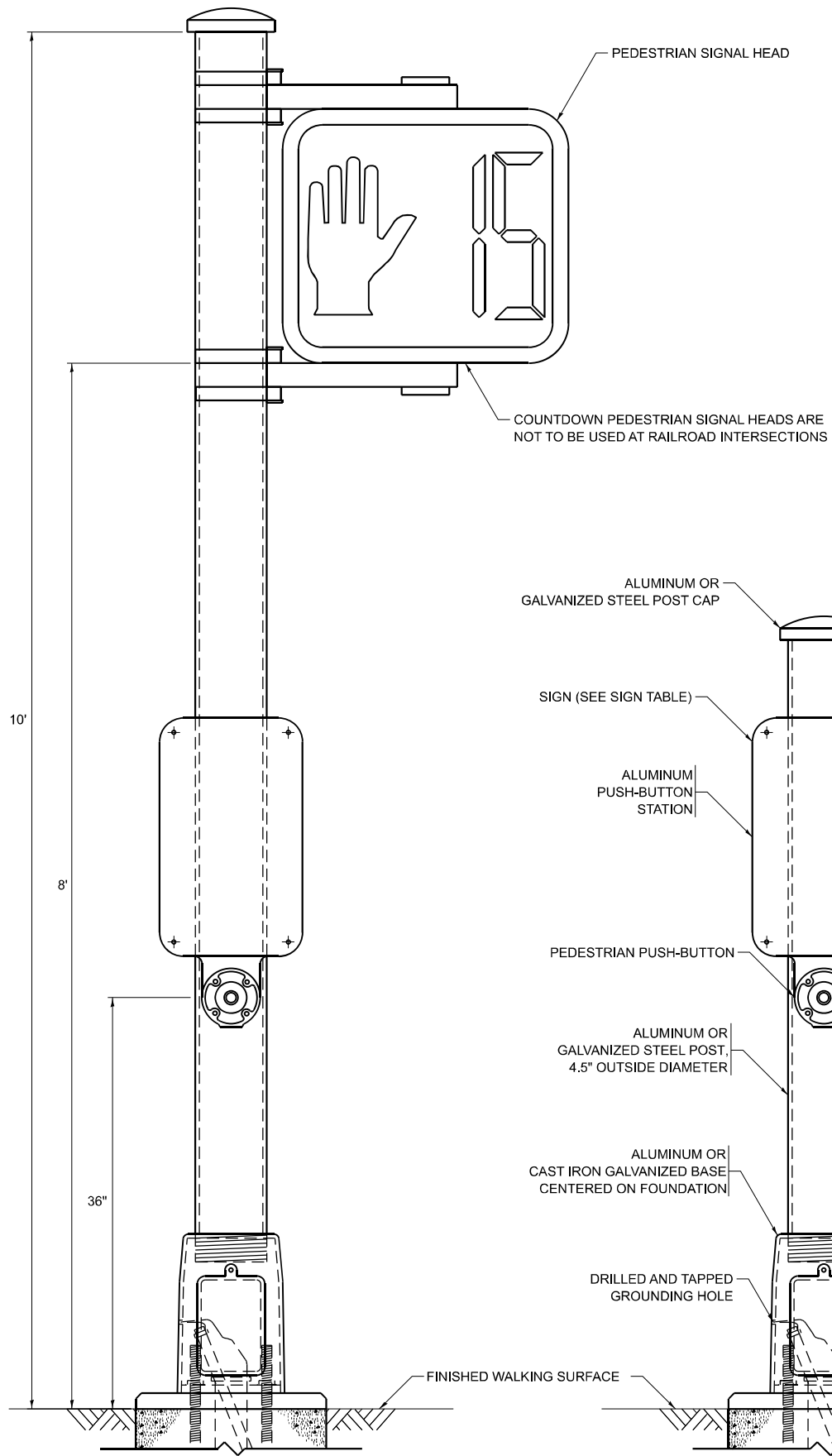


BOLT PATTERN

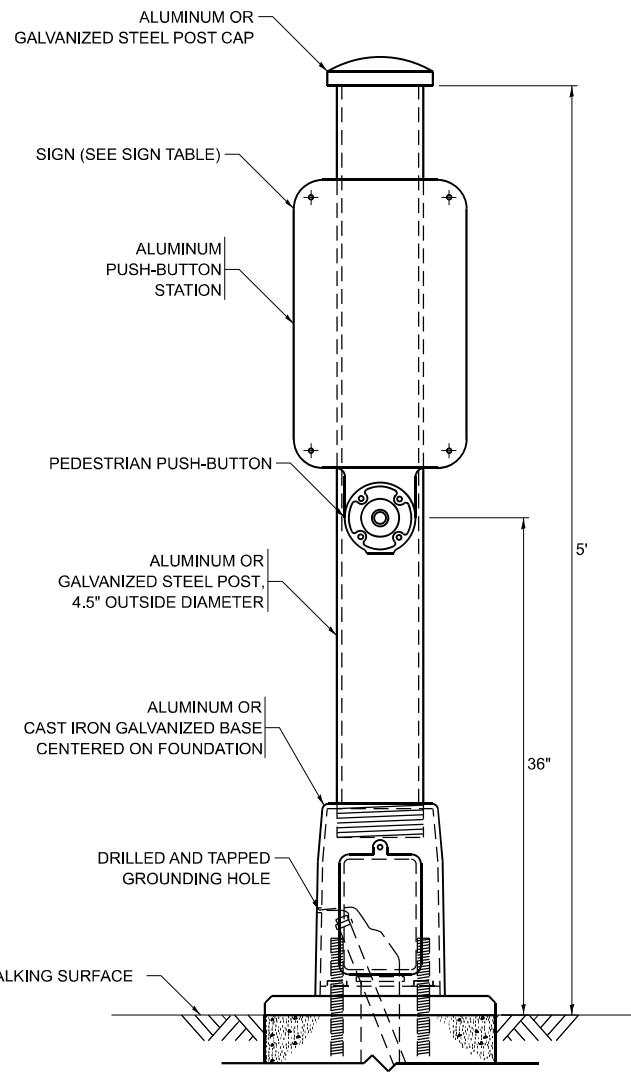
NOTE:
 1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



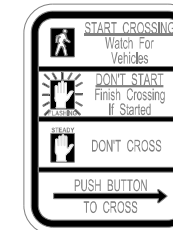
**CONCRETE FOUNDATION,
 TYPE A 12-INCH DIAMETER**



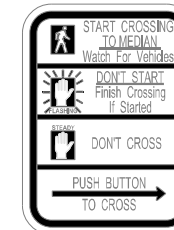
PEDESTRIAN SIGNAL POST, 10 FT.



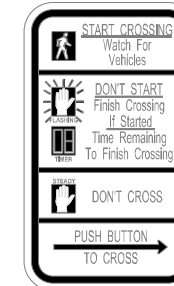
PEDESTRIAN SIGNAL POST, 5 FT.



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 12"

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.

MODEL: TS-05g (Sheet)
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USER NAME = Jacob.Roth	DESIGNED - BBB	REVISED - R0-15-2020
PLOT SCALE = 0.16666633 / in.	DRAWN - BCC	REVISED - RV2
PLOT DATE = 6/28/2024	CHECKED - BPA	REVISED - RV3
	DATE - 10/15/2018	REVISED - RV4

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

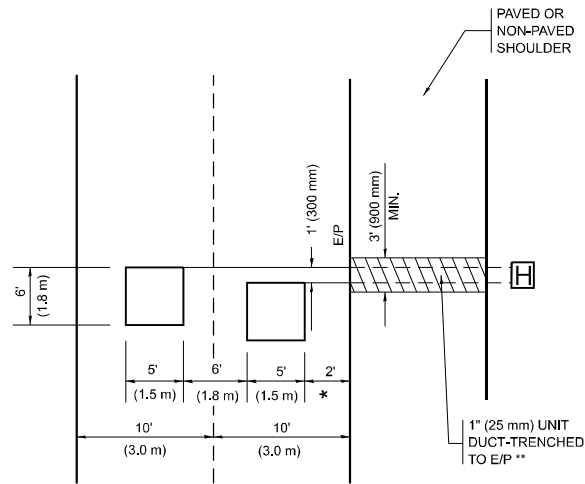
**DISTRICT ONE
 STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	FAP 0399 22 RS	COOK	51	50
TS-05		CONTRACT NO. 62T11		
ILLINOIS FED. AID PROJECT				

LOOPS NEXT TO SHOULDERS

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



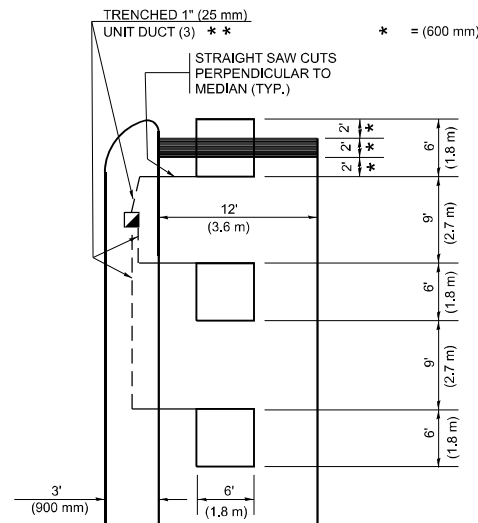
* = (600 mm)

** 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.



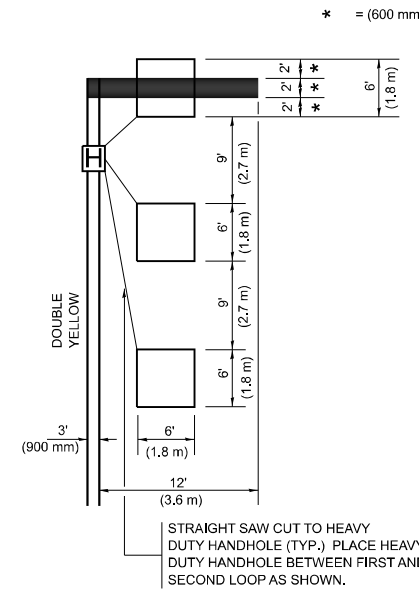
* = (600 mm)

** 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 SEPARATELY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- * EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- * WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- * WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

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

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

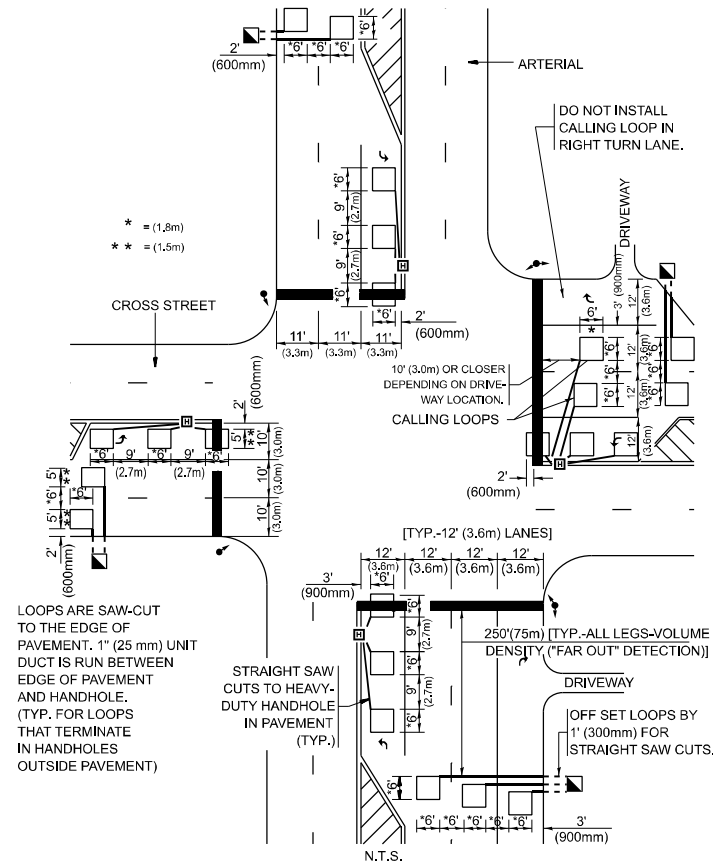
"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0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

NOTE:

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

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

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



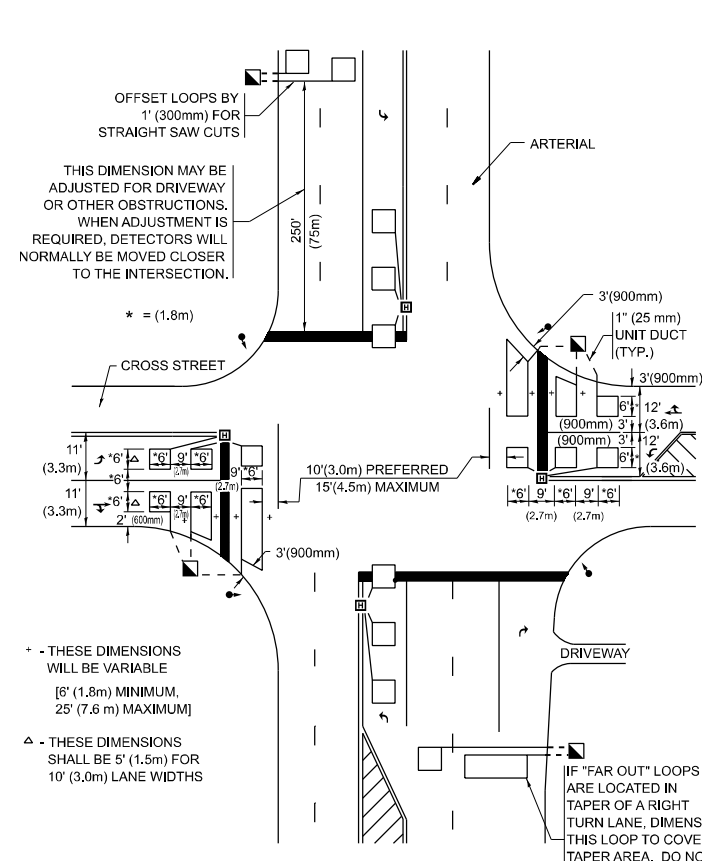
* = (1.8m)
** = (1.5m)

LOOPS ARE SAW-CUT TO THE EDGE OF PAVEMENT. 1" (25 mm) UNIT DUCT IS RUN BETWEEN EDGE OF PAVEMENT AND HANDHOLE. (TYP. FOR LOOPS THAT TERMINATE IN HANDHOLES OUTSIDE PAVEMENT)

STRAIGHT SAW CUTS TO HEAVY-DUTY HANDHOLE IN PAVEMENT (TYP.)

DETAIL 1
N.T.S.

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



OFFSET LOOPS BY 1' (300mm) FOR STRAIGHT SAW CUTS
THIS DIMENSION MAY BE ADJUSTED FOR DRIVEWAY OR OTHER OBSTRUCTIONS. WHEN ADJUSTMENT IS REQUIRED, DETECTORS WILL NORMALLY BE MOVED CLOSER TO THE INTERSECTION.

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

IF "FAR OUT" LOOPS ARE LOCATED IN TAPER OF A RIGHT TURN LANE, DIMENSION THIS LOOP TO COVER TAPER AREA. DO NOT COVER THE LEFT TURN LANE OR LEFT TURN LANE TAPER.

DETAIL 2
N.T.S.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 - DETECTOR LOOP INSTALLATION
DETAILS FOR ROADWAY RESURFACING

USER NAME = Jacob.Roth	DESIGNED - BBB	REVISED - RV1
	DRAWN - CCC	REVISED - RV2
PLOT SCALE = 0.16666633' / in.	CHECKED - R.K.F.	REVISED - RV3
PLOT DATE = 6/28/2024	DATE - XX/XX/XX	REVISED - RV4

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	FAP 0399 22 RS	COOK	51	51
TS-07		CONTRACT NO. 62T11		
ILLINOIS FED. AID PROJECT				