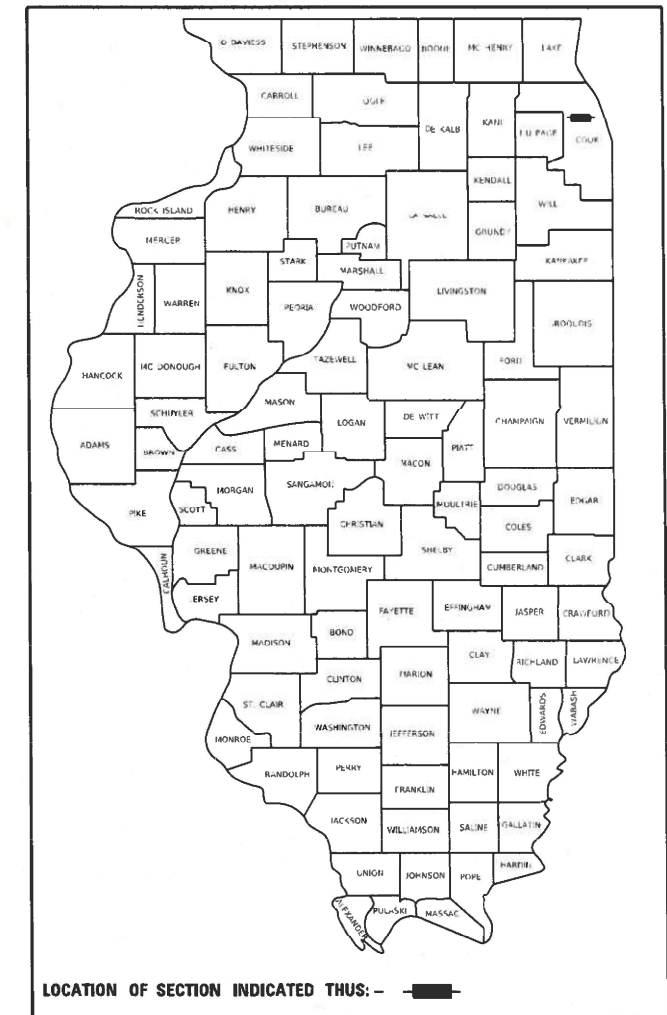


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 311 22 TS	COOK	45	1
		ILLINOIS	CONTRACT NO. 62U21	

D-91-016-23



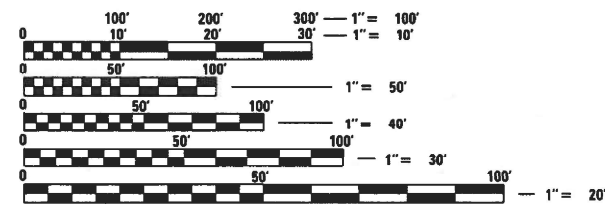
FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENT IS LOCATED IN THE VILLAGE OF WESTERN SPRINGS AND UNINCORPORATED PROVISO TOWNSHIP

**PROPOSED
HIGHWAY PLANS**
FAP ROUTE 311: US 34 (OGDEN AVENUE)
AT WOLF ROAD
SECTION: FAP 311 22 TS
ADA IMPROVEMENTS, PAVEMENT MARKING
AND TRAFFIC SIGNAL MODERNIZATION
PROJECT: HSIP-KBWQ(375)
COOK COUNTY
C-91-024-23

TRAFFIC DATA

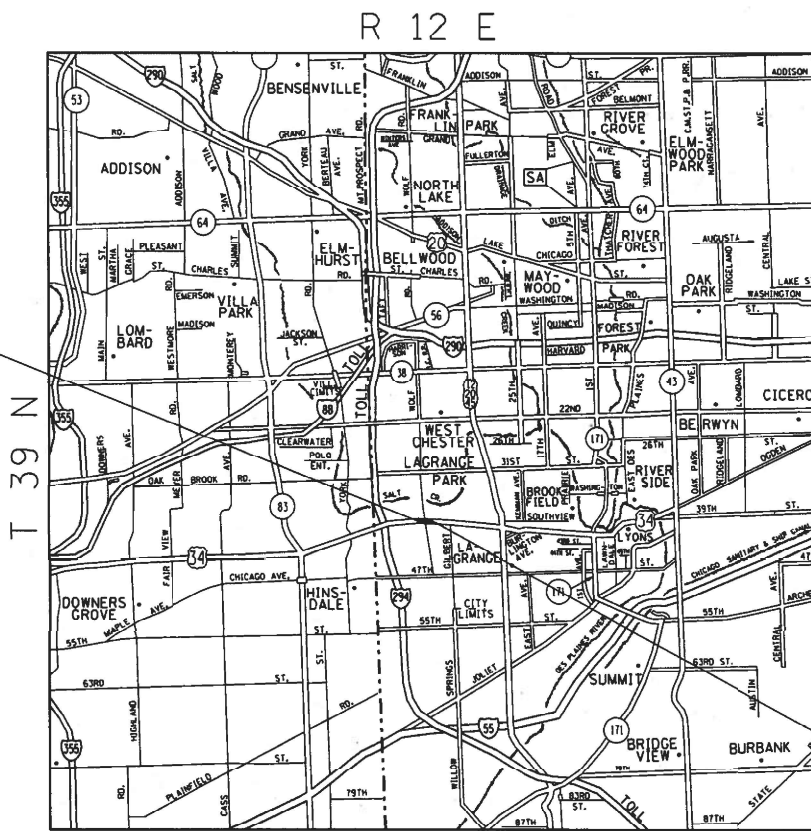
2021 ADT = 31,600 (US 34)
2018 ADT = 19000 (WOLF ROAD)
POSTED SPEED LIMIT = 35 MPH (US 34)
POSTED SPEED LIMIT = 40 MPH (WOLF ROAD)



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 BEGINS
STA. 492 + 27



PROJECT ENDS
STA. 505 + 83

PROVISO TOWNSHIP

GROSS AND NET LENGTH OF IMPROVEMENT = 1356 LINEAL FEET = 0.26 MILE

PROJECT ENGINEER: RODRIGO LEDEZMA (847) 705-4580

PROJECT MANAGER: ALAIN MIDY (847)221-3056

CONTRACT NO. 62U21

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED NOVEMBER 29, 2023
Rodrigo Ledezma
REGIONAL ENGINEER

May 10, 2024 *John A. Etk*
ENGINEER OF DESIGN AND ENVIRONMENT

May 10, 2024 *Stephen M. ...*
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, HIGHWAY STANDARDS, AND GENERAL NOTES
3-6	SUMMARY OF QUANTITIES
7-8	EXISTING AND PROPOSED TYPICAL SECTIONS
9	ALIGNMENT, TIES AND BENCHMARKS
10	EXISTING AND PROPOSED ROADWAY PLANS AND PROFILE
11-13	PLAT OF HIGHWAYS
14	PAVEMENT MARKING PLANS
15-30	TRAFFIC SIGNAL PLANS
31-39	LIGHTING PLANS
40	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS (TC-10)
41	TYPICAL APPLICATIONS: RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) (TC-11)
42	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)
43	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14)
44	SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS (TC-16)
45	ARTERIAL ROAD INFORMATION SIGN (TC-22)

HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-08	TYPICAL SYMBOLS, ABBREVIATIONS AND PATTERNS
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK CORNER OR CROSSWALK CLOSURE
701901-09	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
886001-01	DETECTOR LOOP INSTALLATIONS

GENERAL NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION REQUIRED)
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF WESTERN SPRINGS.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE (or TOLLWAY) PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT (or ISTHA)
- ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY, ARTERIAL TRAFFIC FIELD ENGINEER, AT WALTER.CZARNY@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO PLACING PERMANENT PAVEMENT MARKINGS.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN IN THE PLANS.
- PAVEMENT MARKING TAPE, TYPE IV SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.

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	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/27/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, HIGHWAY STANDARDS, AND GENERAL NOTES
(US 34 (OGDEN AVENUE) AT WOLF ROAD)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 311 22 T5	COOK	45	2
			CONTRACT NO. 62U21	
		ILLINOIS	FED. AID PROJECT	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		90% FED 10% STATE ROADWAY 0004	90% FED 10% STATE TRAFFIC SIGNALS 0021	100% VILLAGE EVP 0021	90% FED 10% STATE INTER CONNECT 0021	90% FED 10% STATE LIGHTING 0021
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	75	75				
• 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	250	250				
• 66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1				
• 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1				
• 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1				
• 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	5	5				
67100100	MOBILIZATION	L SUM	1	1				
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1				
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1				
70300100	SHORT TERM PAVEMENT MARKING	FOOT	500	500				
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	167	167				
70300211	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - PAINT	SQ FT	110	110				

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		90% FED 10% STATE ROADWAY 0004	90% FED 10% STATE TRAFFIC SIGNALS 0021	100% VILLAGE EVP 0021	90% FED 10% STATE INTER CONNECT 0021	90% FED 10% STATE LIGHTING 0021
70300221	TEMPORARY PAVEMENT MARKING - LINE 4"- PAINT	FOOT	10500	10500				
70300241	TEMPORARY PAVEMENT MARKING - LINE 6"- PAINT	FOOT	850	850				
70300261	TEMPORARY PAVEMENT MARKING - LINE 12"- PAINT	FOOT	450	450				
70300281	TEMPORARY PAVEMENT MARKING - LINE 24"- PAINT	FOOT	150	150				
* 72000100	SIGN PANEL - TYPE 1	SQ FT	11		11			
* 72000200	SIGN PANEL - TYPE 2	SQ FT	25		25			
• 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	110	110				
• 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	10500	10500				
• 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	850	850				
• 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	450	450				
• 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	150	150				

* SPECIALTY ITEM

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		90% FED 10% STATE ROADWAY 0004	90% FED 10% STATE TRAFFIC SIGNALS 0021	100% VILLAGE EVP 0021	90% FED 10% STATE INTER CONNECT 0021	90% FED 10% STATE LIGHTING 0021	CODE NO	ITEM	UNIT		90% FED 10% STATE ROADWAY 0004	90% FED 10% STATE TRAFFIC SIGNALS 0021	100% VILLAGE EVP 0021	90% FED 10% STATE INTER CONNECT 0021	90% FED 10% STATE LIGHTING 0021
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	130	130													
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	120	120					* 81800200	AERIAL CABLE, 2-1/C NO. 4 WITH MESSENGER WIRE	FOOT	200				200	
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SO FT	10200	10200					* 82110006	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION F	EACH	4				4	
* 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1283		822		461		* 82110008	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	16				16	
* 81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	181		181				* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1			1		
* 81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	578		578				* 86400100	TRANSCEIVER - FIBER OPTIC	EACH	1			1		
* 81400100	HANDHOLE	EACH	2		2				* 87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	2815			2815		
* 81400200	HEAVY-DUTY HANDHOLE	EACH	5		5				* 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	460		460			
* 81400300	DOUBLE HANDHOLE	EACH	3		3				* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1397		488	909		
* 81603072	UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 4 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	480					480	* 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2057		2057			
* 81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	160					160	* 87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1964		1964			

* SPECIALTY ITEM

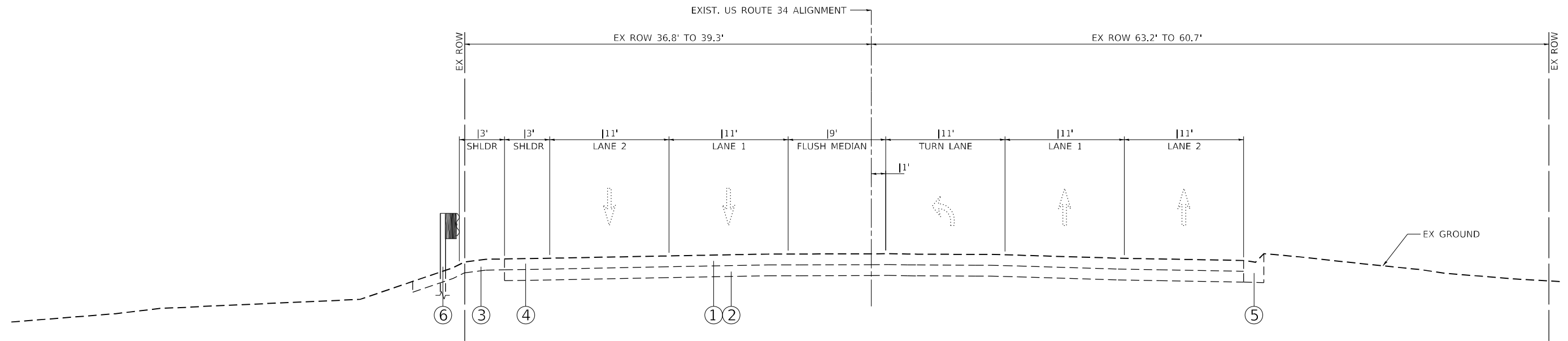
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PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 62U21							
PLOT DATE = 3/27/2024	DATE -	REVISED -	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
SCALE:		SHEET NO. OF SHEETS		STA. TO STA.						

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		90% FED 10% STATE ROADWAY 0004	90% FED 10% STATE TRAFFIC SIGNALS 0021	100% VILLAGE EVP 0021	90% FED 10% STATE INTER CONNECT 0021	90% FED 10% STATE LIGHTING 0021	CODE NO	ITEM	UNIT		90% FED 10% STATE ROADWAY 0004	90% FED 10% STATE TRAFFIC SIGNALS 0021	100% VILLAGE EVP 0021	90% FED 10% STATE INTER CONNECT 0021	90% FED 10% STATE LIGHTING 0021
* 87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2634		2634				* 87900200	DRILL EXISTING HANDHOLE	EACH	1				1	
* 87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	95		95				* 88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6		6			
* 87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	669		669				* 88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3		3			
* 87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4		4				* 88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	5		5			
* 87700240	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1		1				* 88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	5		5			
* 87700250	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1		1				* 88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	11		11			
* 87700310	STEEL MAST ARM ASSEMBLY AND POLE, 54 FT.	EACH	1		1				* 88500100	INDUCTIVE LOOP DETECTOR	EACH	11		11			
* 87702890	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT.	EACH	1		1				* 88600100	DETECTOR LOOP, TYPE I	FOOT	1553		1553			
* 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	20		20				* 89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1		1			
* 87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4		4				* 89500200	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	2		2			
* 87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	52		52				* 89501400	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	4		4			
* SPECIALTY ITEM									* 89501410	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	2		2			

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		90% FED 10% STATE ROADWAY 0004	90% FED 10% STATE TRAFFIC SIGNALS 0021	100% VILLAGE EVP 0021	90% FED 10% STATE INTER CONNECT 0021	90% FED 10% STATE LIGHTING 0021
* 89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	5476				5476	
* 89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1		1			
* 89502380	REMOVE EXISTING HANDHOLE	EACH	11		11			
* 89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1		1			
* 89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	10		10			
* X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	909			909		
* X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	1910				1910	
* X8302141	TEMPORARY WOOD POLE, 40 FT., CLASS 4	EACH	1					1
* X8570233	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1		1			
* X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1		1			
* X1400341	REMOVAL OF LUMINAIRE, SALVAGE	EACH	20					20
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	6	6				
* X8250091	COMBINATION LIGHTING CONTROLLER	EACH	1					1
* X8440102	RELOCATE EXISTING LUMINAIRE	EACH	1					1

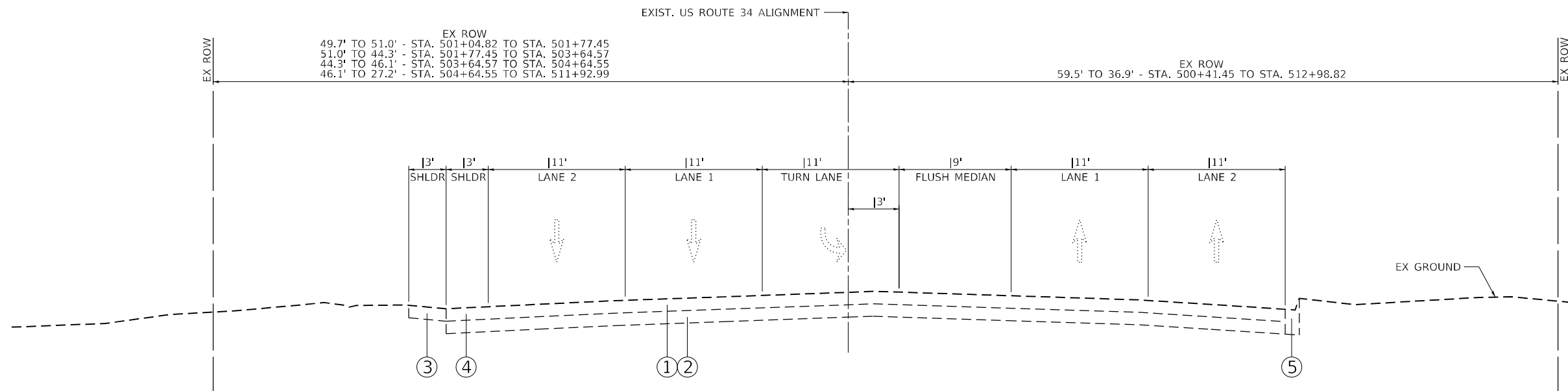
SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		90% FED 10% STATE ROADWAY 0004	90% FED 10% STATE TRAFFIC SIGNALS 0021	100% VILLAGE EVP 0021	90% FED 10% STATE INTER CONNECT 0021	90% FED 10% STATE LIGHTING 0021
* X8620200	UNINTERRUPTABLE POWER SUPPLY (SPECIAL)	EACH	1		1			
* X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	2841				2841	
* X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4		4			
* X8772115	TEMPORARY MAST ARM, ALUMINUM, 15FT	EACH	1					1
* X8809005	LED SIGNAL FACE, LENS COVER	EACH	19		19			
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1				
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	51.4	51.4				
* Z0033020	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	20					20
* Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	6					6
* Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL	EACH	1				1	
	2							
* Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1		1			
	• SPECIALTY ITEM							

FILE NAME =	USER NAME = FritzGullraume	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 100,0000' / 1in	CHECKED -	REVISED -	CONTRACT NO. 62U21							
PLOT DATE = 3/27/2024	DATE -	REVISED -	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
				SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.			



EXISTING US 34
 STA. 497+37.00 TO STA. 499+50.00

- ① EX HMA SURFACE COURSE
- ② EX BASE COURSE
- ③ EX AGGREGATE SHOULDER
- ④ EX PAVED SHOULDER
- ⑤ EX B-6.12 CURB & GUTTER
- ⑥ EX GUARDRAIL



EXISTING US 34
 STA. 500+50.00 TO STA. 502+16.00

- ① EX HMA SURFACE COURSE
- ② EX BASE COURSE
- ③ EX AGGREGATE SHOULDER
- ④ EX PAVED SHOULDER
- ⑤ EX B-6.12 CURB & GUTTER

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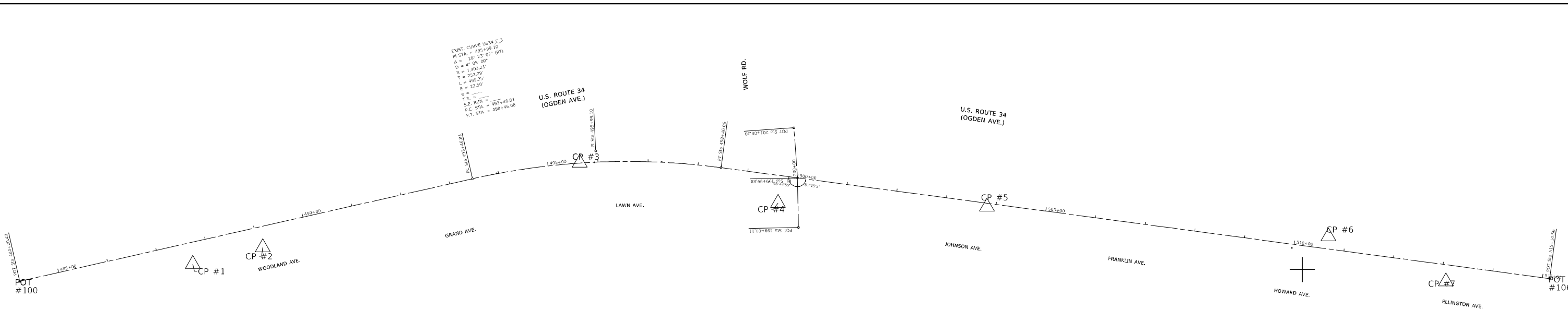
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	DRAWN -	REVISED -
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PLOT DATE = 3/22/2024	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**U.S. ROUTE 34 AT WOLF RD
 TYPICAL SECTIONS**

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 311 22 TS	COOK	45	7
CONTRACT NO. 62U21				
ILLINOIS FED. AID PROJECT				



EXIST. CURVE US34 F.3
 P.C. STA. = 495+99.10
 P.T. STA. = 507.33 (PT)
 A = 4° 05' 00"
 R = 1403.21'
 T = 752.79'
 L = 499.25'
 E = 22.50'
 S.E. BURN =
 P.E. STA. = 493+46.81
 F.Y. STA. = 499+46.06

BENCHMARK #1

ELEV. = 653,103
 "X" - CUT IN N.W. BOLT ON F.H.
 @ S.E. CORNER WOODLAWN & U.S. 34

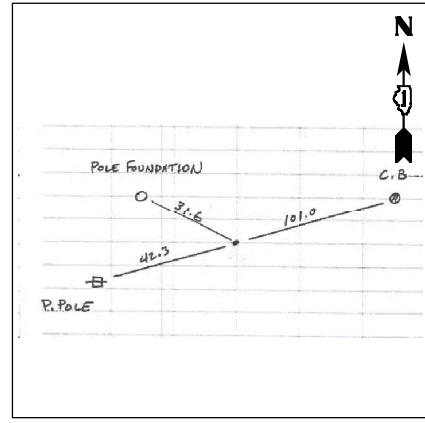
BENCHMARK #2

ELEV. = 655,493
 "X" - CUT IN N.E. CORNER TCB @ S.W.
 COR. US. 34 & WOLF RD.

BENCHMARK #3

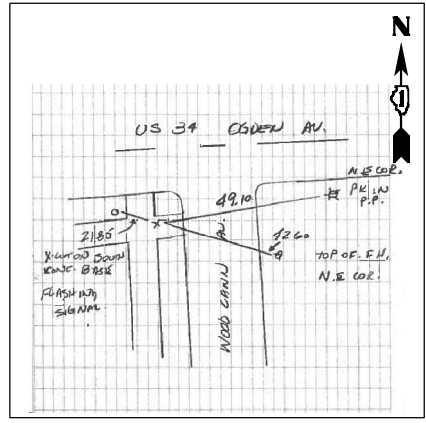
ELEV. 647,563
 "X" - CUT IN S.W. BOLT ON F.H. @ S.W.
 COR. OF U.S. 34 & ELLINGTON AVE.

ROUTE	POINT	NORTHING	EASTING	STATION
U.S. ROUTE 34 (OGDEN AVE.)	PT#100	1877315.6359	1101060.4693	484+20.47
	PC CURVE 1	1877520.1798	1101963.9453	493+46.81
	PI CURVE 1	1877575.8877	1102210.0086	495+99.10
	PT CURVE 1	1877542.3953	1102460.0661	498+46.06
	PT#106	1877320.8962	1104113.8009	515+14.56
WOLF RD.	PI#3006	1877423.0904	1102614.5679	199+01.11
	PI#104	1877521.8417	1102612.6373	199+99.88
	PI#3008	1877622.0112	1102605.6056	201+00.30



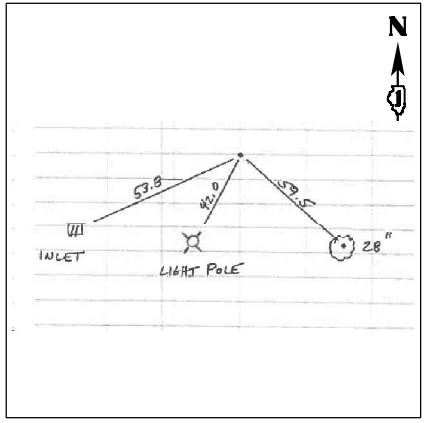
CONTROL POINT #1

X - CUT IN SIDEWALK S. SIDE
 U.S. 34 W. OF WOLF RD.
 STA. 487+65.14
 N=1877349.9692
 E=1101406.0902
 ELEV.=650.5333



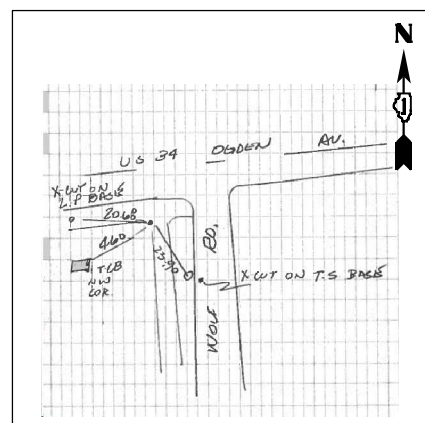
CONTROL POINT #2

X- CUT ON SIDEWALK @ N.W. CORNER.
 STA. 489+08.74
 N=1877383.1365
 E=1101545.8191
 ELEV.=650.6430



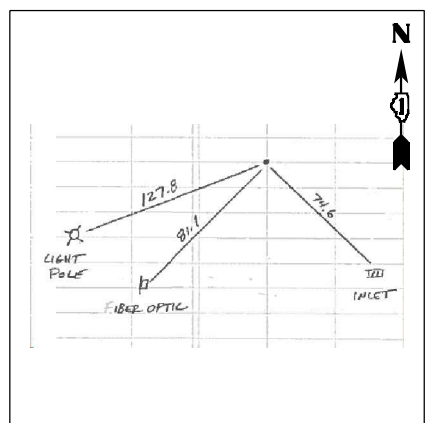
CONTROL POINT #3

MAG NAIL CENTERLINE U.S. 34 +/- 450'
 W. OF WOLF RD.
 STA. 495+63.46
 N=1877551.9688
 E=1102178.0674
 ELEV.=652.9830



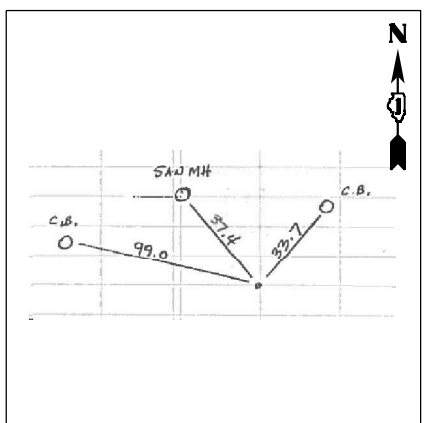
CONTROL POINT #4

P.K. NAIL IN S.W. @ S.W. CORNER
 STA. 499+68.04
 N=1877471.7725
 E=1102573.6743
 ELEV.=655.4230



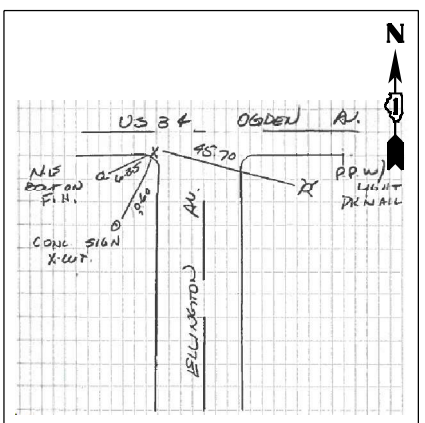
CONTROL POINT #5

MAG NAIL IN MEDIAN U.S. 34 +/- 400'
 E. OF WOLF RD.
 STA. 503+82.26
 N=1877464.1937
 E=1102990.5805
 ELEV.=653.1230



CONTROL POINT #6

MAG NAIL IN FOREST PRESERVE ENT.
 N. SIDE U.S. 34 +/- 500' E. OF WOLF RD.
 STA. 510+65.73
 N=1877404.9866
 E=1103672.2298
 ELEV.=644.5030



CONTROL POINT #7

X-CUT ON CURB @ S.W. CORNER U.S. 34
 & ELLINGTON AVE.
 STA. 513+10.03
 N=1877315.0536
 E=1103906.6593
 ELEV.=647.7030

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT, TIES AND BENCHMARKS
 U.S. ROUTE 34 AT WOLF RD.**

SCALE: 1"=100' SHEET OF SHEETS STA. TO STA.

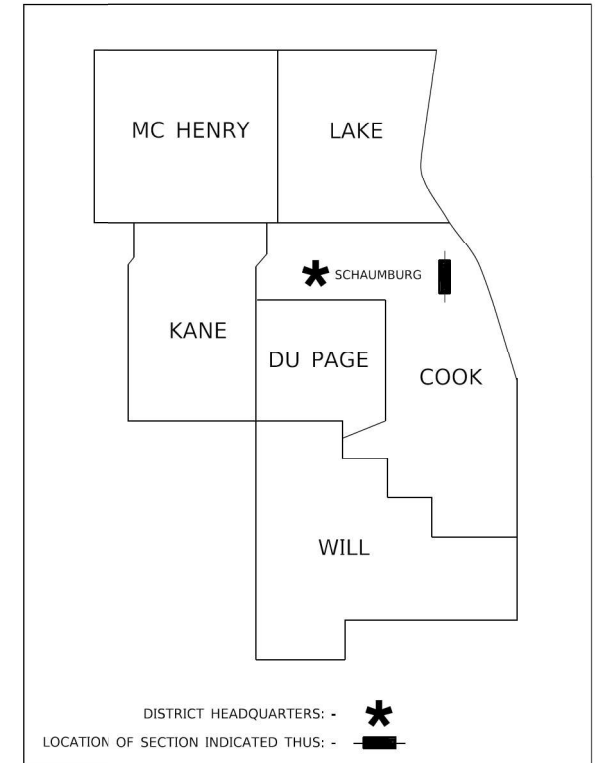
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 311 22 TS	COOK	45	9
CONTRACT NO. 62U21			ILLINOIS FED. AID PROJECT	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS**

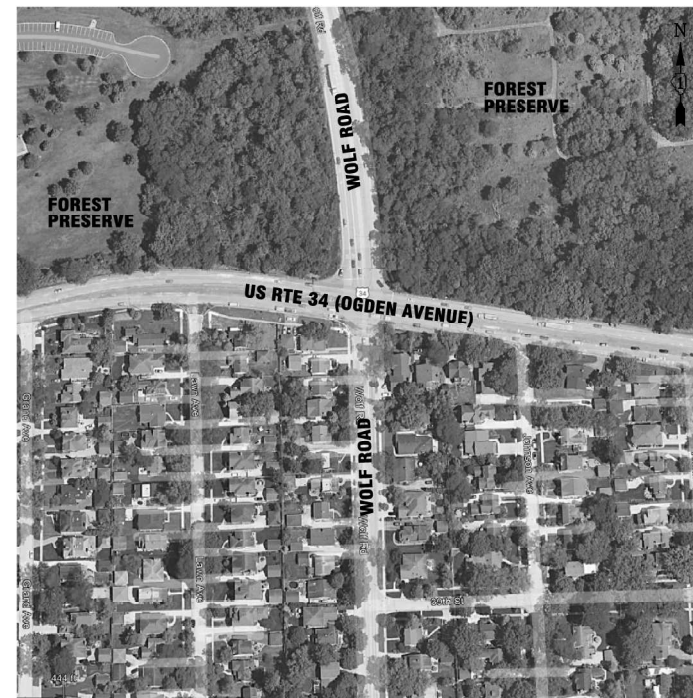
PLAT OF HIGHWAYS

ROUTE: US ROUTE 34
SECTION: AT WOLF ROAD
COUNTY: COOK
LIMITS: AT WOLF ROAD
JOB NO.: R-90-002-22

PARCEL NUMBER	OWNER	SHEET NUMBER	PROPERTY ACQUIRED BY
0NB0001PE 0NB0001LE	FOREST PRESERVE DISTRICT OF COOK COUNTY	3	
0NB0002	SQSHA AND JAQUELINE GARBER	3	



PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS



LOCATION MAP

PREPARED BY: - TECMA ASSOCIATES, INC. <small>ENGINEERS / SURVEYORS / CONSTRUCTION MANAGERS</small> 475 N. MARTINGALE ROAD, SUITE 570 SCHAMBURG, ILLINOIS 60113 PHONE: 773-763-5555 FAX: 773-763-5577	 WT GROUP <small>Structural Mechanical Electrical Plumbing Civil Land Survey Telecommunications Acoustic Accessibility Consulting Design & Program Management</small> Engineering with Precision, Pace & Passion. 2575 Pratum Avenue Hoffman Estates, IL 60112 P: 224.293.6333 F: 224.293.6444 wtgroup@wtg.com
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PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
U.S. ROUTE 34 (OGDEN AVE.)

LIMITS: AT WOLF ROAD	COUNTY: Cook
SECTION: 311	JOB NO.: R-90-002-22
STATION: 497+00	TO STATION: 503+00
SCALE: N/A	SHEET 1 OF 3

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096

APPROVED
By Rod Richgruber at 2:55 pm, Oct 12, 2022

IDOT USE ONLY

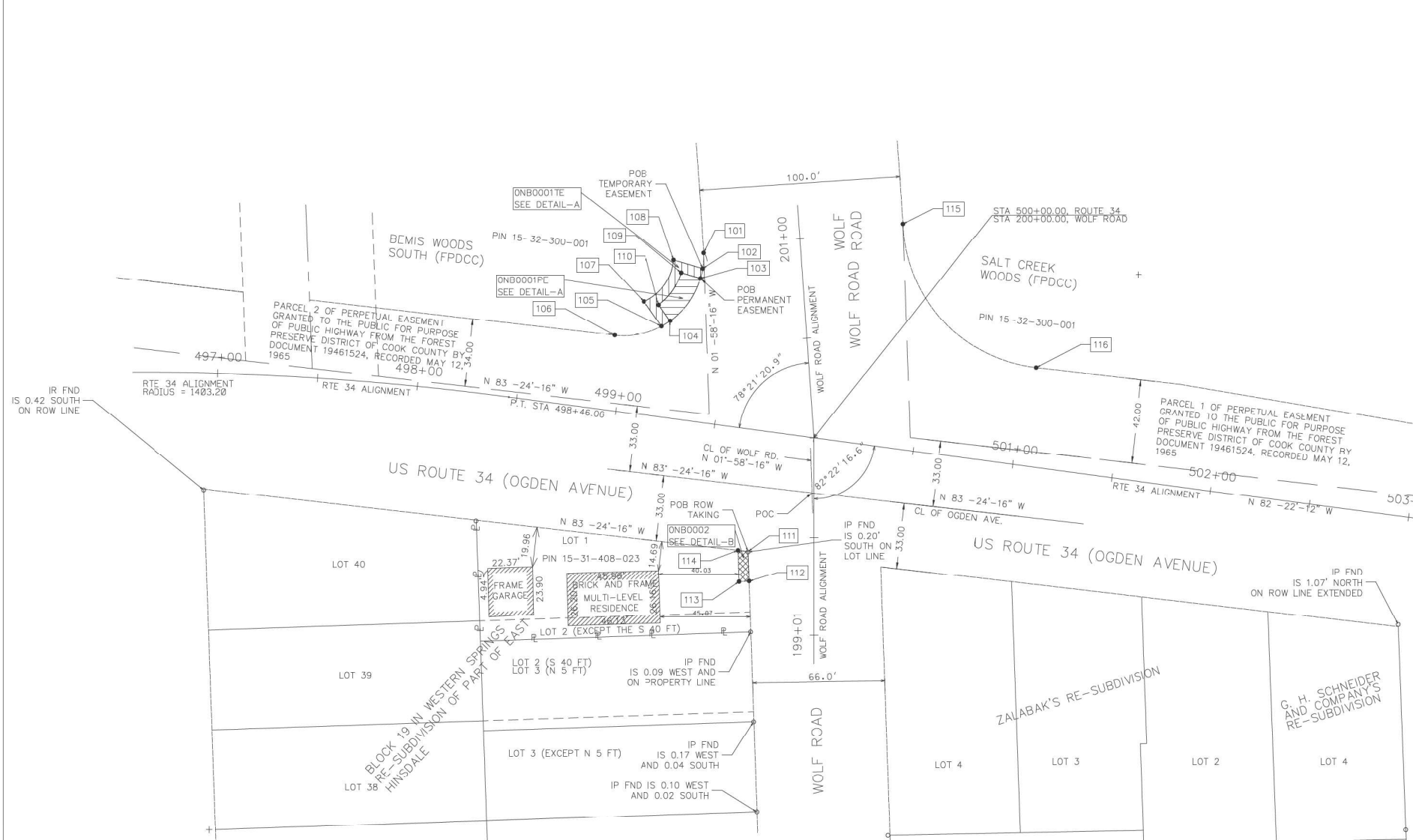
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLATS OF HIGHWAYS
(US 34 (OGDEN AVENUE) AT WOLF ROAD)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 311 22 T5	COOK	45	11
CONTRACT NO. 62U21				
ILLINOIS FED. AID PROJECT				

PART OF SEC. 32, T39N, R12E OF THE 3RD P.M., COOK COUNTY, ILLINOIS



LEGEND

- SECTION CORNER
- QUARTER SECTION CORNER
- SECTION / QUARTER SECTION LINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APPL APPARENT PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- EXISTING ACCESS CONTROL LINE
- PROPOSED ACCESS CONTROL LINE
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORDED DIMENSION
- EXISTING BUILDING

IRON PIPE OR ROD FOUND
CUT CROSS FOUND OR SET
STAKING OF PROPOSED RIGHT OF WAY, SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS, BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
RIGHT OF WAY STAKING PROPOSED TO BE SET

*"MAG" NAIL SET
5 / 8" REBAR SET

- NOTES:
- BASIS OF BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, ILLINOIS EAST (1201) ZONE NAD83 (2011). COORDINATES/DISTANCES SHOWN ARE "GRID". GRID DISTANCE / THE COMBINED SCALE FACTOR OF 0.999973811 = GROUND DISTANCE.
 - ALL STATIONING IS SHOWN IN FEET.
 - SHEET 1 IS THE COVER SHEET AND IS NOT RECORDED.
 - BUILDING TIES SHOWN ARE TO THE PROPOSED RIGHT OF WAY LINE, UNLESS THERE ARE NO TAKINGS ON SAID PROPERTY, IN WHICH CASE THEY ARE TO THE EXISTING RIGHT OF WAY LINE.
- STATE OF ILLINOIS)
COUNTY OF COOK) SS

THIS IS TO DECLARE THAT WE, TECMA ASSOCIATES, INC., HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN THE WEST 1/2 OF THE SOUTHWEST 1/4 OF SECTION 32, TOWNSHIP 39 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY; THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

GIVEN UNDER OUR HAND AND SEAL THIS ____ DAY OF _____ A.D. ____
AT SCHAUMBURG, ILLINOIS.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2135
LICENSE EXPIRATION DATE: 11/30/2322

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT
ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

PROJECT COORDINATES
ILLINOIS STATE PLANE, EAST ZONE, NAD 83 2011

PNT#	STATION	OFFSET	NORTHING	EASTING
101	200+96.14	48.48 LEFT	1877614.49	1102557.53
102	200+88.37	49.52 LEFT	1877606.67	1102557.04
103	200+83.57	50.98 LEFT	1877601.78	1102555.92
104	200+63.40	67.65 LEFT	1877580.48	1102540.70
105	200+61.06	72.09 LEFT	1877577.85	1102536.44
106	200+58.24	95.82 LEFT	1877573.37	1102512.96
107	200+74.04	79.99 LEFT	1877590.24	1102527.65
108	200+93.68	63.76 LEFT	1877610.97	1102542.47
109	200+87.07	60.35 LEFT	1877604.61	1102546.33

PROJECT COORDINATES
ILLINOIS STATE PLANE, EAST ZONE, NAD 83 2011

PNT#	STATION	OFFSET	NORTHING	EASTING
110	200+71.94	72.85 LEFT	1877588.64	1102534.92
111	199+43.01	32.93 LEFT	1877164.99	1102579.71
112	199+28.02	32.41 LEFT	1877450.00	1102580.23
113	199+27.84	37.40 LEFT	1877449.82	1102575.23
114	199+43.59	37.93 LEFT	1877465.57	1102574.09
115	500+29.84	112.00 LEFT	1877629.00	1102657.09
116	501+05.14	49.53 LEFT	1877557.09	1102723.43

PARCEL NUMBER	TOTAL HOLDINGS ACRES/SQ FT	PART TAKEN SQ. FT	AREA N EXISTING ROW ACRES/SQ FT	REMAINDER AREA ACRES/SQ FT	EASEMENT AREA		PARCEL INDEX NUMBER
					ACRES	SQUARE FEET	
ONB0001PE ONB0001TE					0.005 AC 0.006 AC	233 SQ. FT. 242 SQ. FT.	15-32-300-001
ONB0002	0.157 AC/ 6818 SQ. FT.	0.002 AC/ 77 SQ. FT.		0.155 AC/ 6741 SQ. FT.			15-31-408-023

PREPARED BY: -

TECMA ASSOCIATES, INC. STRUCTURAL / MECHANICAL / ELECTRICAL / PLUMBING ENGINEERS / SURVEYORS / CONSTRUCTION MANAGERS 475 N. MARTIN LUTHER KING, SR. BLVD, SUITE 500 SCHAUMBURG, ILLINOIS 60173 PHONE: 773-763-6555 FAX: 773-763-6577	WT GROUP Civil / Land Survey / Telecommunications / Assets Accessibility Consulting / Design & Program Management Engineering with Precision, Peace & Passion. 2875 Platan Avenue Hoffman Estates, IL 60192 P: 848-289-8533 F: 281-928-8444 wtgroupinc.com
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PLAT OF HIGHWAYS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
U.S. ROUTE 34 (OGDEN AVE.)

LIMITS: AT WOLF ROAD COUNTY: Cook
SECTION: JOB NO.: R-90-002-22
STATION: 497+00 TO STATION: 503+00
SCALE: 1"=30' SHEET 2 OF 3

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096

IDOT USE ONLY

APPROVED
By Rod Richgruber at 2:55 pm, Oct 12, 2022

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 DATE: 3/22/2024

USER NAME	DESIGNED	REVISER
Fritz, Guillaume	-	-
	DRAWN	REVISED
	CHECKED	REVISED
	DATE	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLATS OF HIGHWAYS (US 34 (OGDEN AVENUE) AT WOLF ROAD)				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE:	SHEET	OF	SHEETS	311	FAP 311 22 TS	COOK	45	12
								CONTRACT NO. 62U21
							ILLINOIS	FED. AID PROJECT

PART OF SEC. 32, T39N, R12E OF THE 3RD P.M., COOK COUNTY, ILLINOIS

LINE	BEARING	DISTANCE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD DISTANCE
A			7.85'	40.0'	S 03°-38'-37" W	7.84'
B	N 73°-32'-52" W	15.19'				
C			26.74'	25.0'	S 35°-32'-49" W	25.48'
D	S 35°-21'-02" E	15.19'				
E			5.01'	40.0'	N 58°-14'-23" E	5.01'
F	N 35°-21'-02" W	10.0'				
G			20.0'	30.0'	N 35°-33'-03" E	19.63'
H	S 73°-32'-52" E	10.0'				
I			5.01'	40.0'	N 12°-51'-34" E	5.01'
J			26.67'	40.0'	N 35°-33'-03" E	26.18'
K			12.87'	40.0'	S 07°-14'-11" W	12.81'

LEGEND

SECTION CORNER
QUARTER SECTION CORNER

SECTION / QUARTER SECTION LINE
PLATTED LOT LINES
PROPERTY (DEED) LINE
APPARENT PROPERTY LINE
EXISTING CENTERLINE
PROPOSED CENTERLINE
EXISTING RIGHT OF WAY LINE
PROPOSED RIGHT OF WAY LINE
EXISTING EASEMENT
PROPOSED EASEMENT
EXISTING ACCESS CONTROL LINE
PROPOSED ACCESS CONTROL LINE

MEASURED DIMENSION
COMPUTED DIMENSION
RECORDED DIMENSION

IRON PIPE OR ROD FOUND
CUT CROSS FOUND OR SET
"MAG" NAIL SET
5 / 8" REBAR SET

STAKING OF PROPOSED RIGHT OF WAY, SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS, BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
RIGHT OF WAY STAKING PROPOSED TO BE SET

NOTES:

1. BASIS OF BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, ILLINOIS EAST (1201) ZONE NAD83 (2011). COORDINATES/DISTANCES SHOWN ARE "GRID". GRID DISTANCE / THE COMBINED SCALE FACTOR OF 0.999973811 = GROUND DISTANCE.
2. ALL STATIONING IS SHOWN IN FEET.
3. SHEET 1 IS THE COVER SHEET AND IS NOT RECORDED.
4. BUILDINGS SHOWN ARE TO THE PROPOSED RIGHT OF WAY LINE, UNLESS THERE ARE NO TAKINGS ON SAID PROPERTY, IN WHICH CASE THEY ARE TO THE EXISTING RIGHT OF WAY LINE.

STATE OF ILLINOIS) 55
COUNTY OF COOK)

THIS IS TO DECLARE THAT WE, TECMA ASSOCIATES, INC., HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN THE WEST 1/2 OF THE SOUTHWEST 1/4 OF SECTION 32, TOWNSHIP 39 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY; THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

GIVEN UNDER OUR HAND AND SEAL THIS ___ DAY OF _____ A.D. _____
AT SCHAUMBURG, ILLINOIS.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2135
LICENSE EXPIRATION DATE: 11/30/2022

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

PREPARED BY: -

TECMA ASSOCIATES, INC.
ENGINEERS / SURVEYORS / CONSTRUCTION MANAGERS
475 N. MARTINGALE ROAD, SUITE 570
SCHAUMBURG, ILLINOIS 60173
PHONE: 773-783-5555
FAX: 773-783-5577

WT GROUP
Structural | Mechanical | Electrical | Plumbing
Civil | Land Survey | Telecommunications | Aquatics
Accessibility Consulting | Design & Program Management
Engineering with Precision, Pace & Passion.
2875 Prater Avenue | Hoffman Estates, IL 60182
P: 224-293-6333 | F: 224-293-8444
wtgroup.com

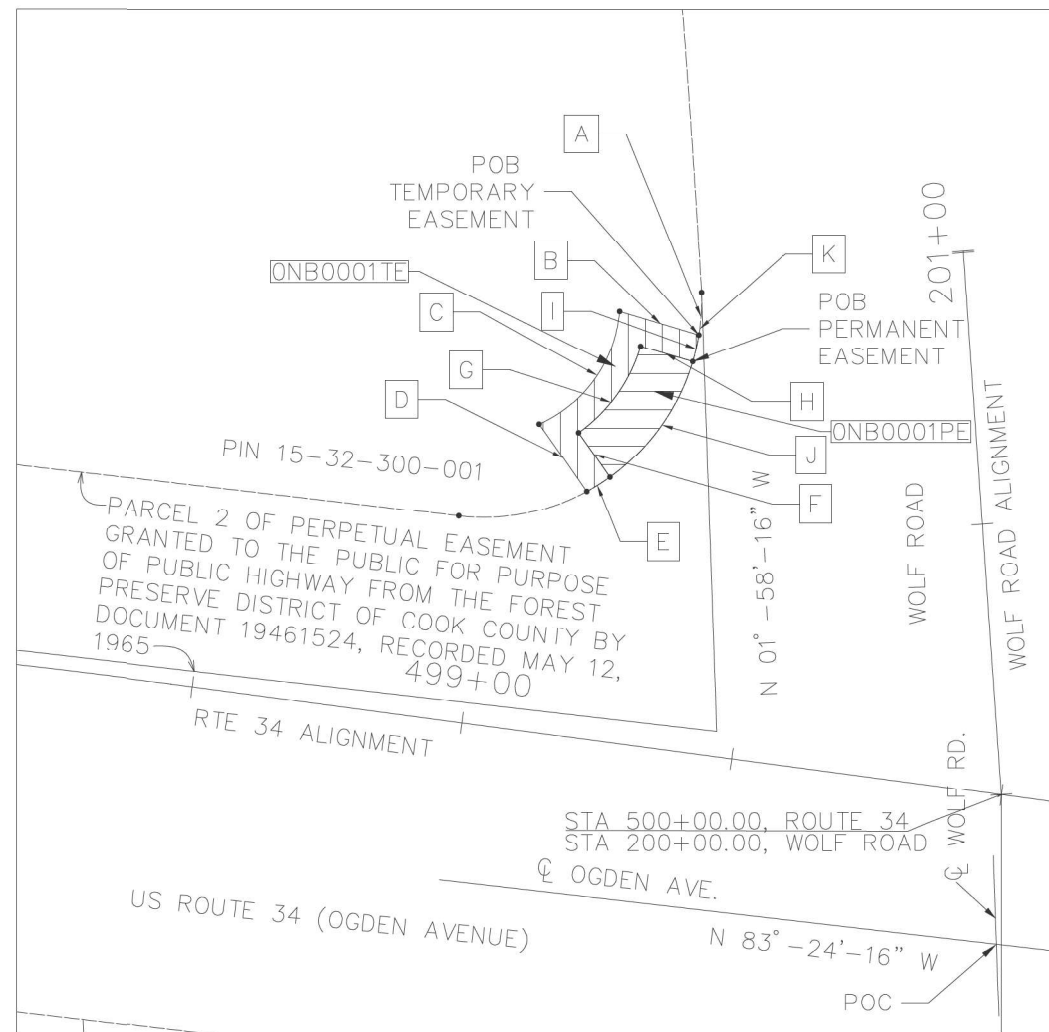
PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
U.S. ROUTE 34 (OGDEN AVE.)

LIMITS: AT WOLF ROAD COUNTY: Cook
SECTION: JOB NO.: R-90-002-22
STATION: 497+00 TO STATION: 503+00
SCALE: 1"=30' SHEET 3 OF 3

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096

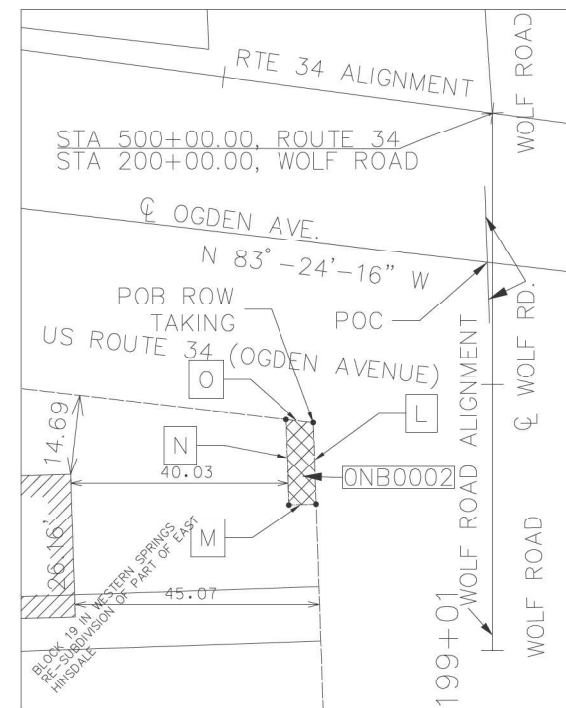
IDOT USE ONLY

APPROVED
By Rod Richgruber at 2:55 pm, Oct 12, 2022



DETAIL A - ONB0001PE, ONB0001TE

LINE	BEARING	DISTANCE
L	S 01°-58'-46" E	15.0'
M	S 88°-01'-14" W	5.0'
N	N 01°-50'-40" W	15.75'
O	S 83°-24'-16" E	5.06'



DETAIL B - ONB0002

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLATS OF HIGHWAYS
(US 34 (OGDEN AVENUE) AT WOLF ROAD)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 311 22 T5	COOK	45	13
CONTRACT NO. 62U21				

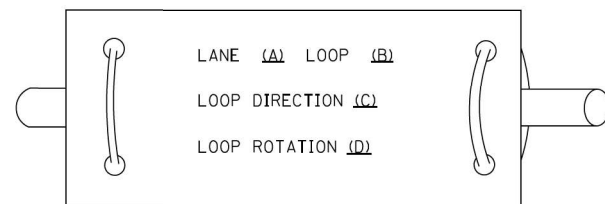
ILLINOIS FED. AID PROJECT

USER NAME	DESIGNED	REVIS
= Fritz, Guillaume	-	-
DRAWN	REVIS	REVIS
-	-	-
PLOT SCALE	CHECKED	REVIS
= 100,0000' / in.	-	-
PLOT DATE	DATE	REVIS
= 3/22/2024	-	-

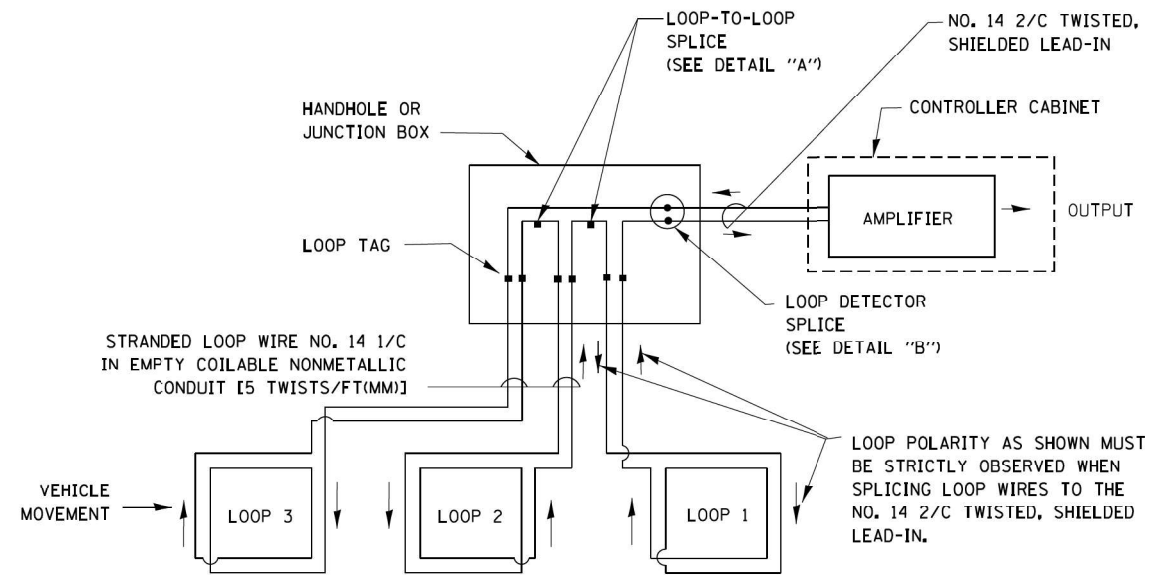
LOOP DETECTOR NOTES

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

LOOP LEAD-IN CABLE TAG

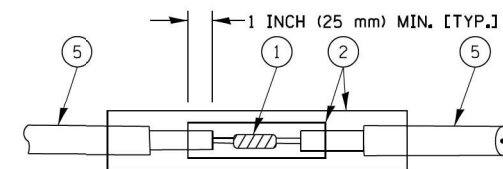


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

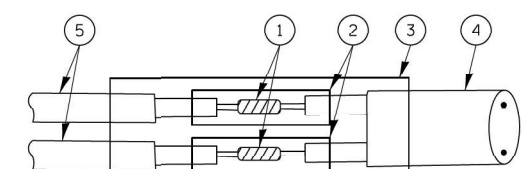


DETECTOR LOOP WIRING SCHEMATIC

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

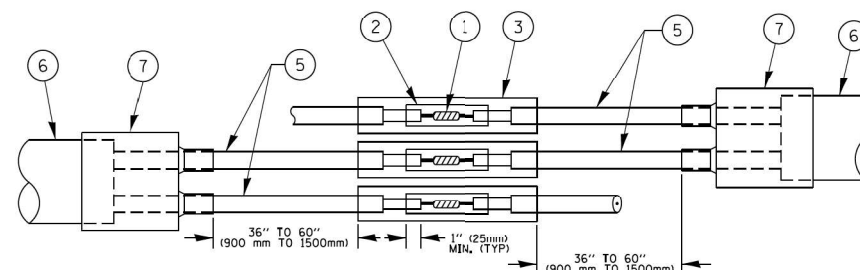


DETAIL "A"
LOOP-TO-LOOP SPLICE

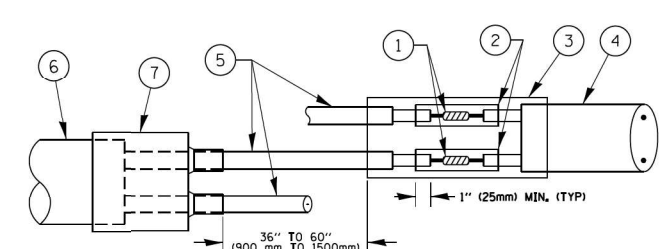


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PREFORMED LOOP

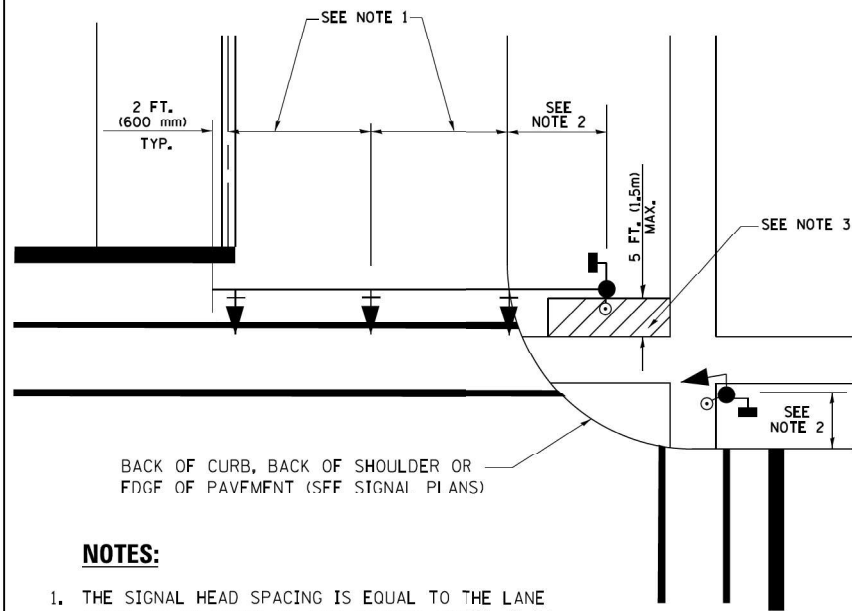
LOOP DETECTOR SPLICE

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

TS SHT NO. 03

FILE NAME =	USER NAME = foatemj	DESIGNED - DAD	REVISED - DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			F.A.P. RTE. 311	SECTION FAP 311 22 TS	COUNTY COOK	TOTAL SHEETS 45	SHEET NO. 17
ca:\pwork\pwork\foatemj\d0108315\ts05.dgn		DRAWN - BCK	REVISED -		SCALE: NONE	SHEET NO. 2 OF 7 SHEETS	STA. TO STA.	TS-05		CONTRACT NO. 62U21		
		CHECKED - DAD	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
		DATE - 10-28-09	REVISED -									

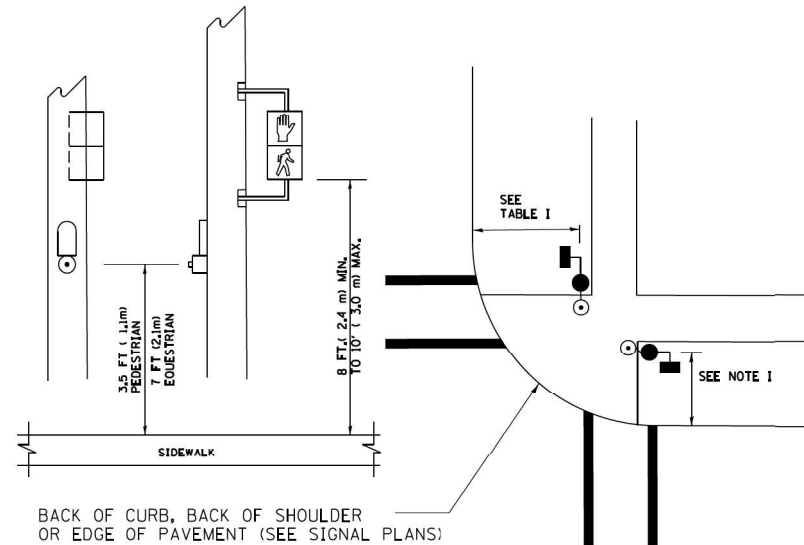
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



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."

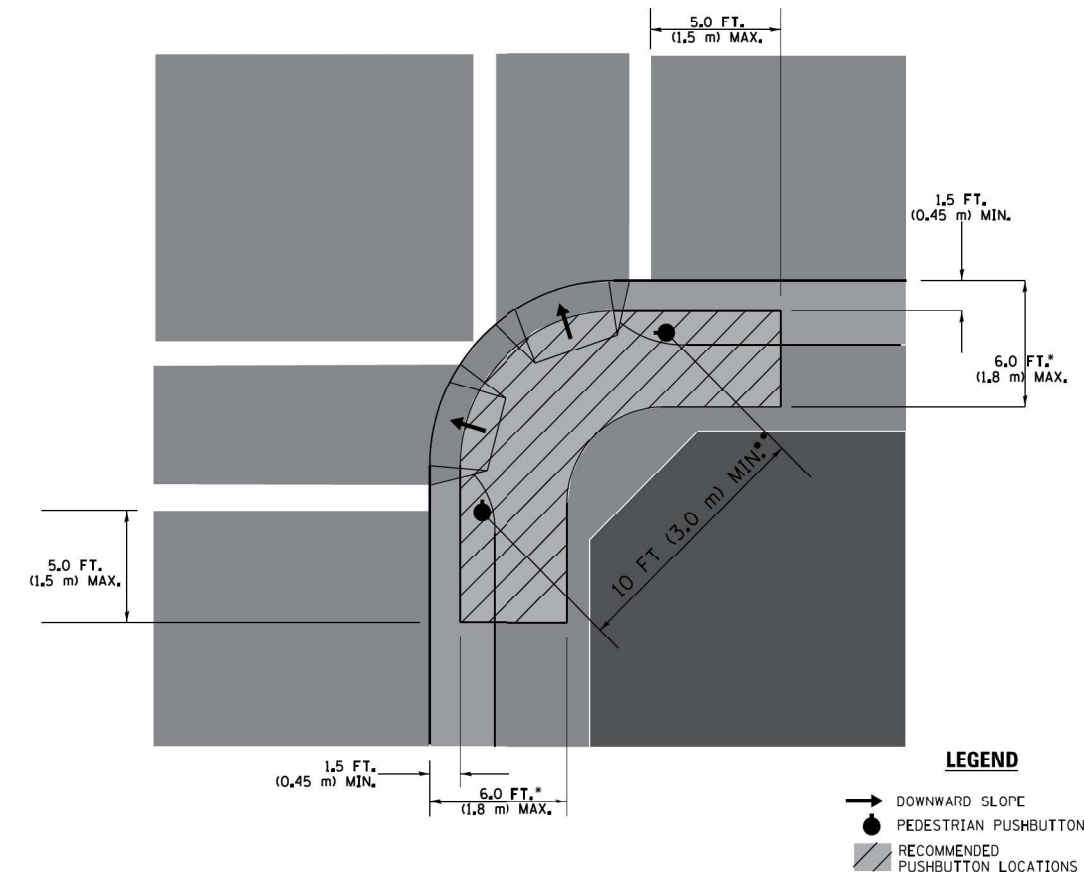
**PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST**



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



- 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) SEPARATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

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

TRAFFIC SIGNAL EQUIPMENT OFFSET

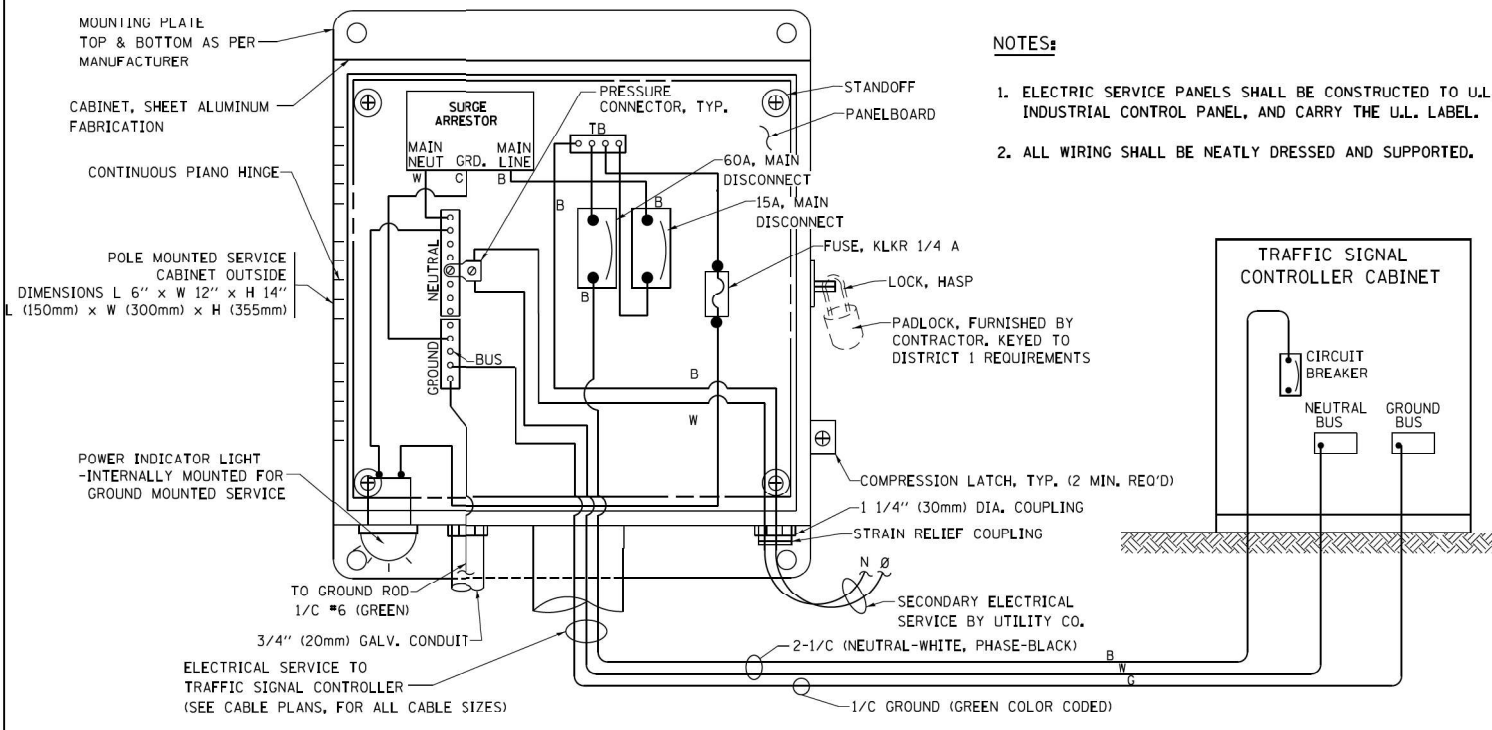
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10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

NOTES:

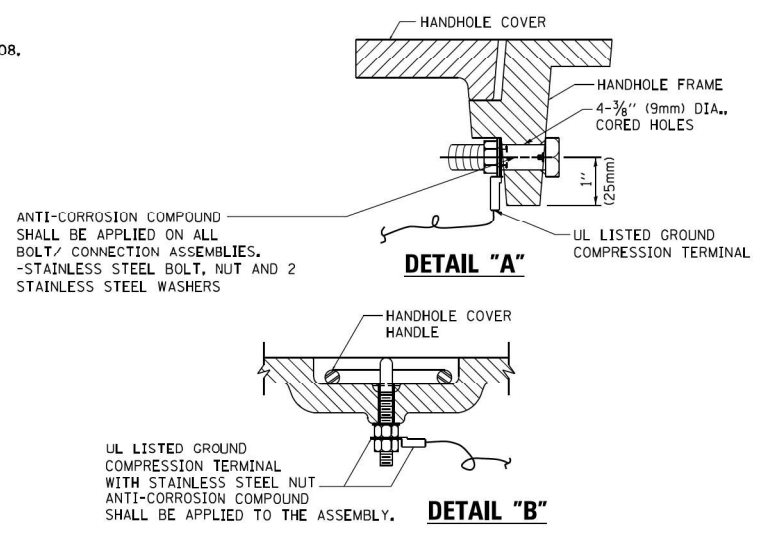
1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM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

TS SHT NO. 04

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A.P. RTE. 311	SECTION FAP 311 22 TS	COUNTY COOK	TOTAL SHEETS 45	SHEET NO. 18	
ca:\p\work\p\dot\Footemj\d0108315\ts05.dgn	DRAWN - BCK	CHECKED - DAD	REVISED -			SCALE: NONE	SHEET NO. 3 OF 7 SHEETS	STA. TO STA.	TS-05		CONTRACT NO. 62U21
PLOT SCALE = 50.0000' / 1"	DATE - 10-28-09	DATE - 10-28-09	REVISED -			FED. ROAD DIST. NO. 1		ILLINOIS		FED. AID PROJECT	
PLOT DATE = 1/13/2014											

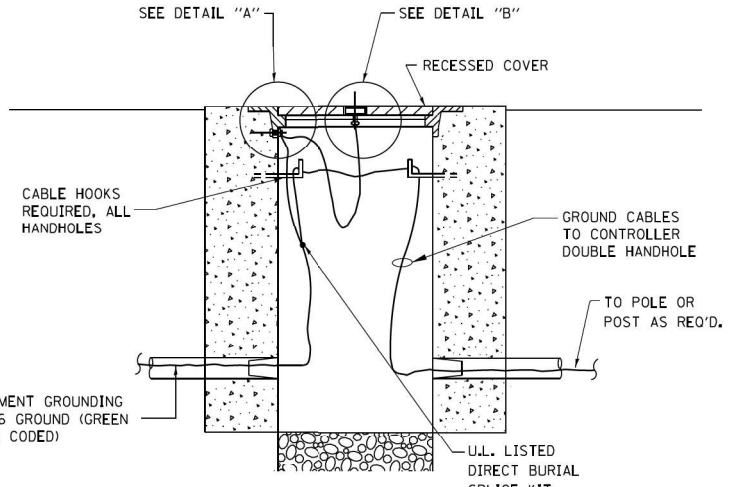


ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE) SERVICE INSTALLATION POLE MOUNT (SHOWN) (NOT TO SCALE)

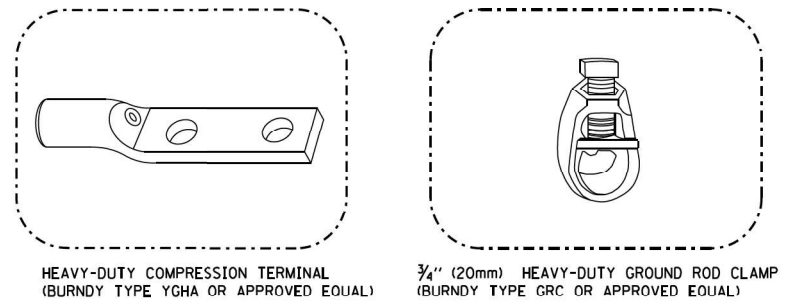


NOTES:
GROUNDING SYSTEM

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

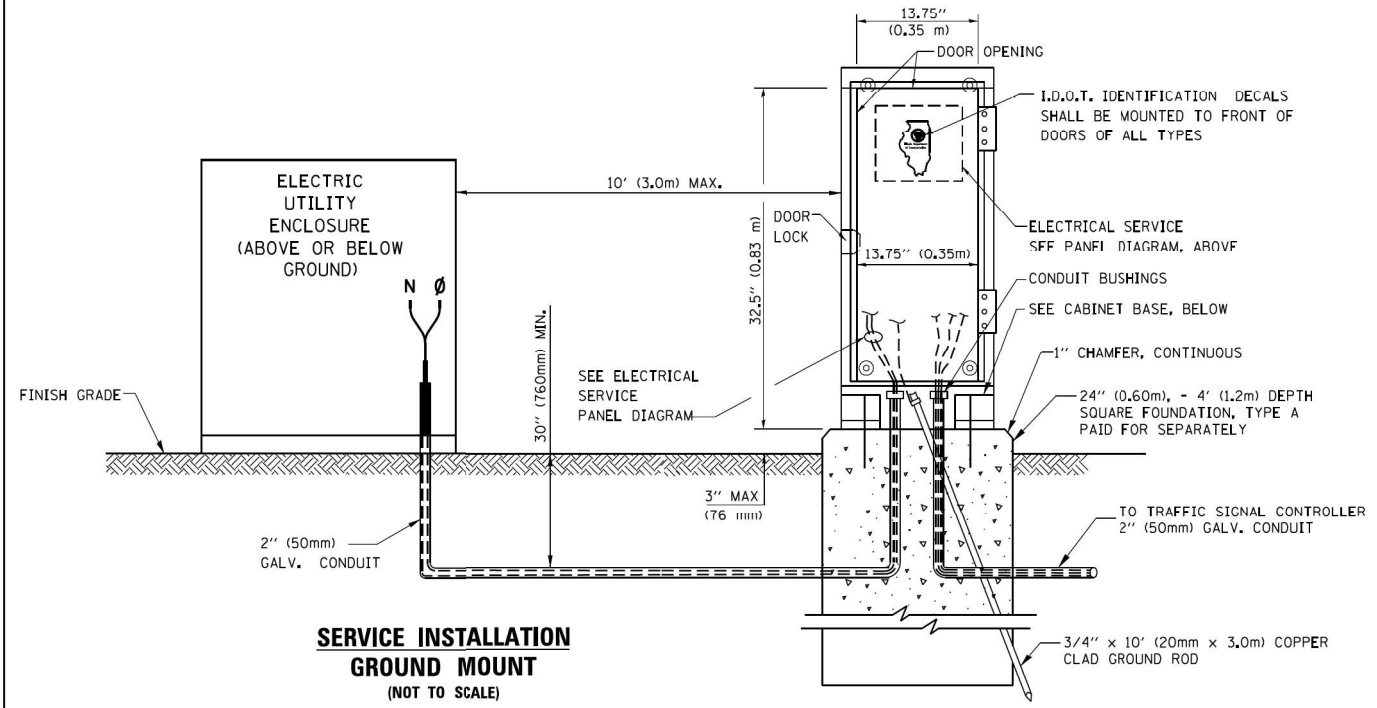


HANDHOLE COVER & FRAME – GROUNDING DETAIL (NOT TO SCALE)

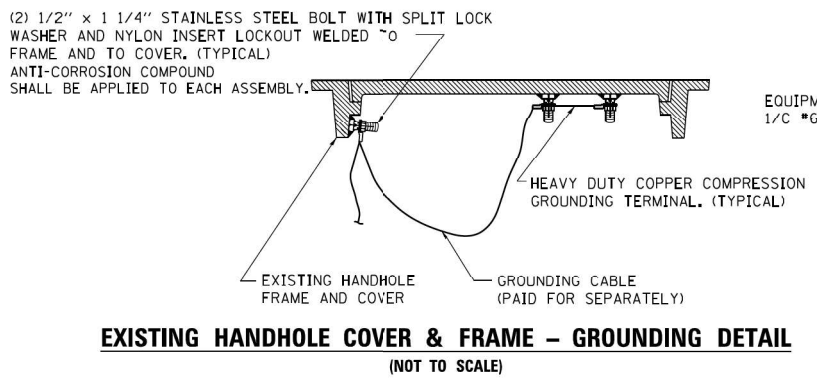


NOTES:

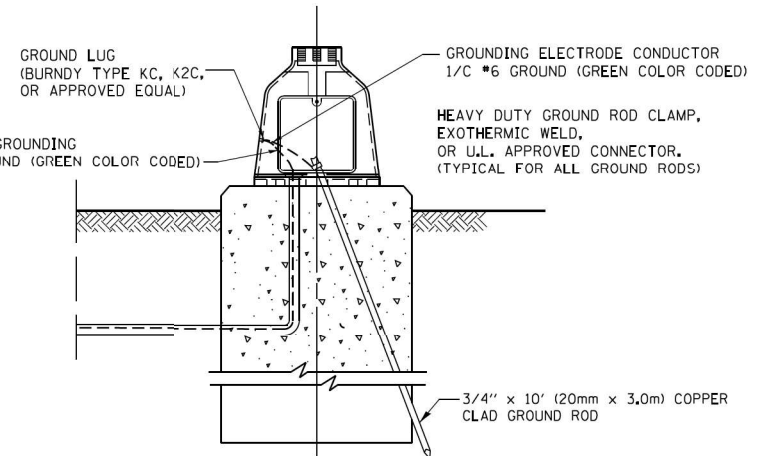
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES. 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES. 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



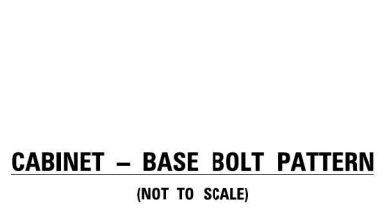
SERVICE INSTALLATION GROUND MOUNT (NOT TO SCALE)



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



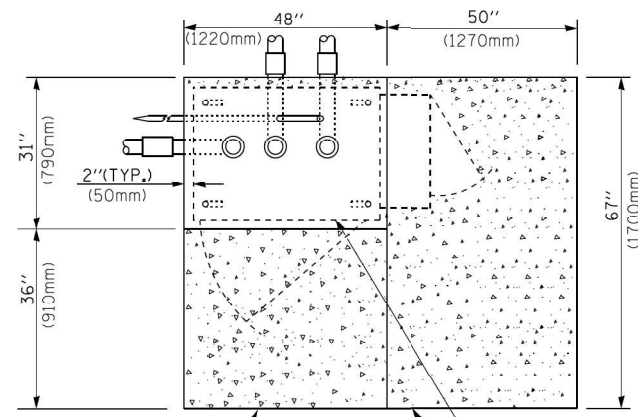
MAST ARM POLE / POST-GROUNDING DETAIL (NOT TO SCALE)



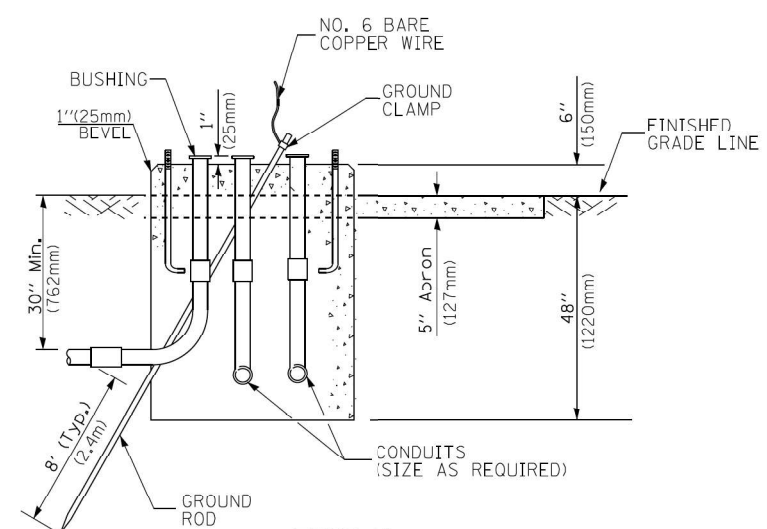
CABINET – BASE BOLT PATTERN (NOT TO SCALE)

TS SHT NO. 05

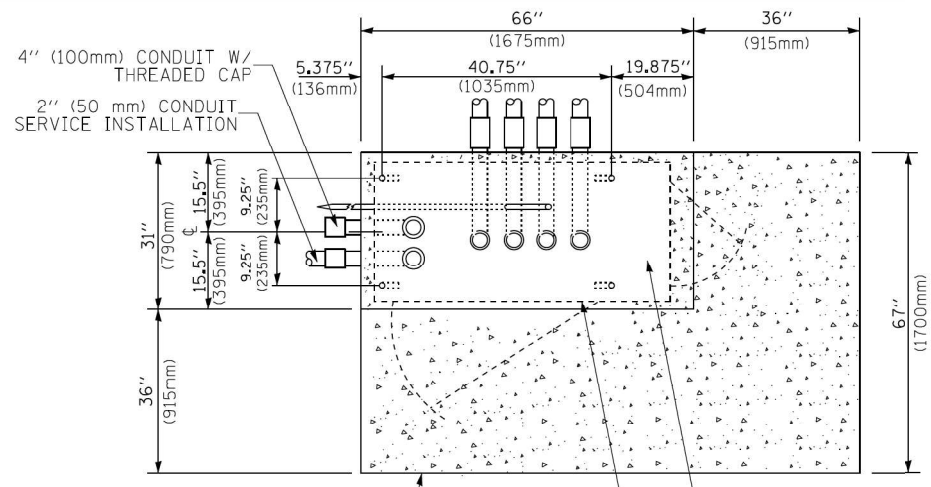
FILE NAME = ca:\pwork\pwork\footemj\d0108315\ts05.dgn	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			F.A.P. RTE. 311	SECTION FAP 311 22 TS	COUNTY COOK	TOTAL SHEETS 45	SHEET NO. 19
PLOT SCALE = 50.0000' / 1"	CHECKED - DAD	REVISOR -	REVISOR -		SCALE: NONE	SHEET NO. 4 OF 7 SHEETS	STA. TO STA.	TS-05		CONTRACT NO. 62U21		
PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISOR -	REVISOR -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							



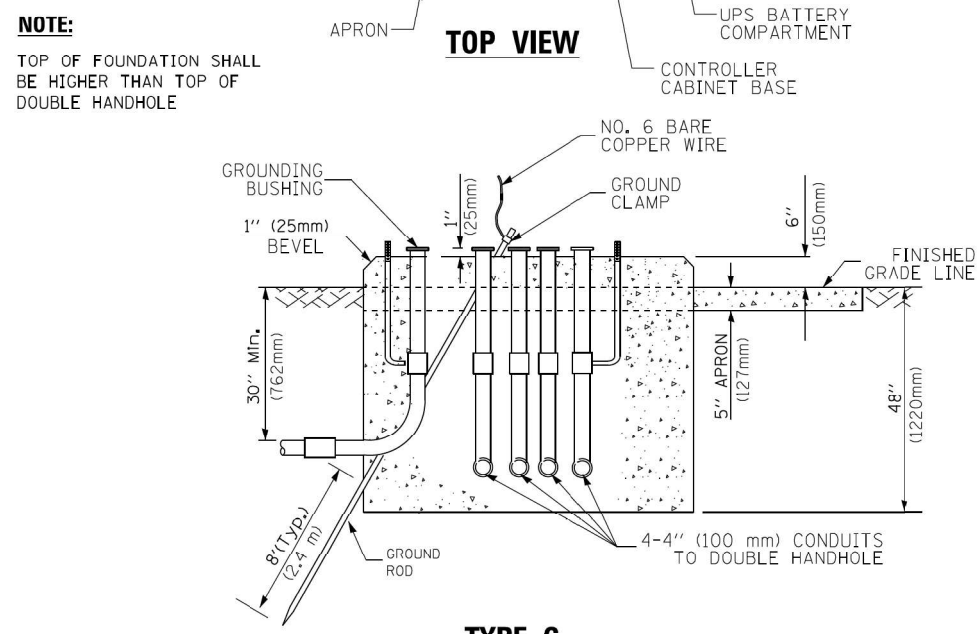
TOP VIEW



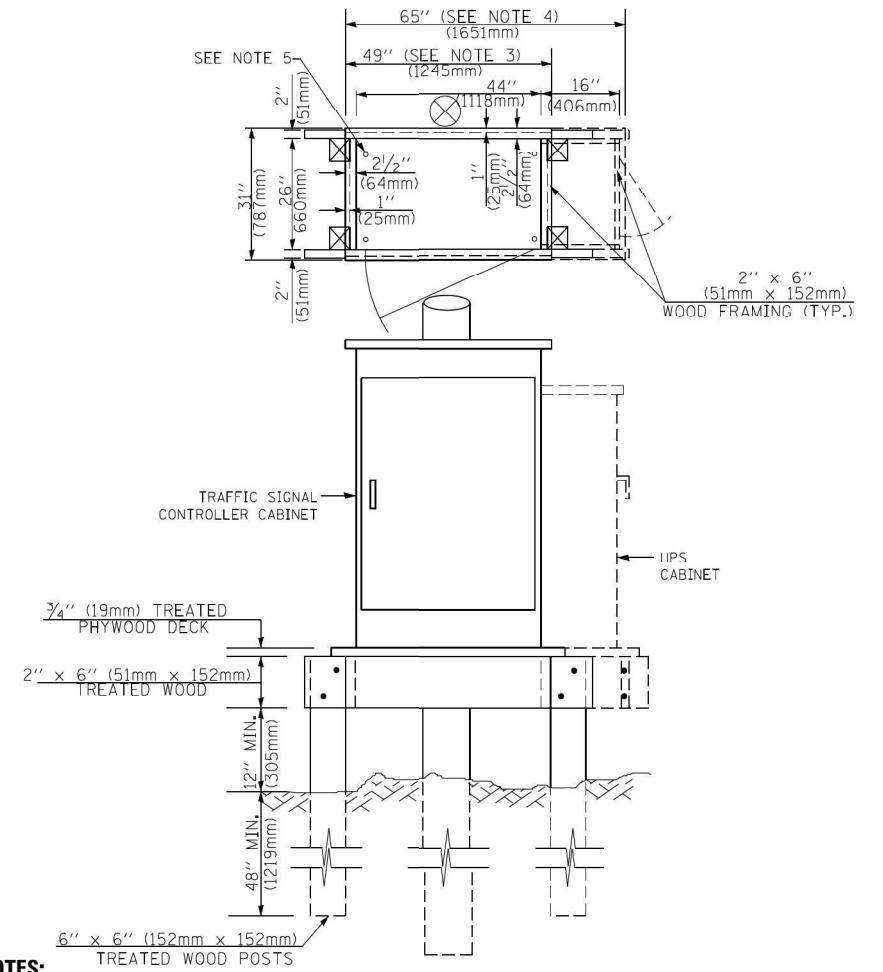
**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**



TOP VIEW



**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

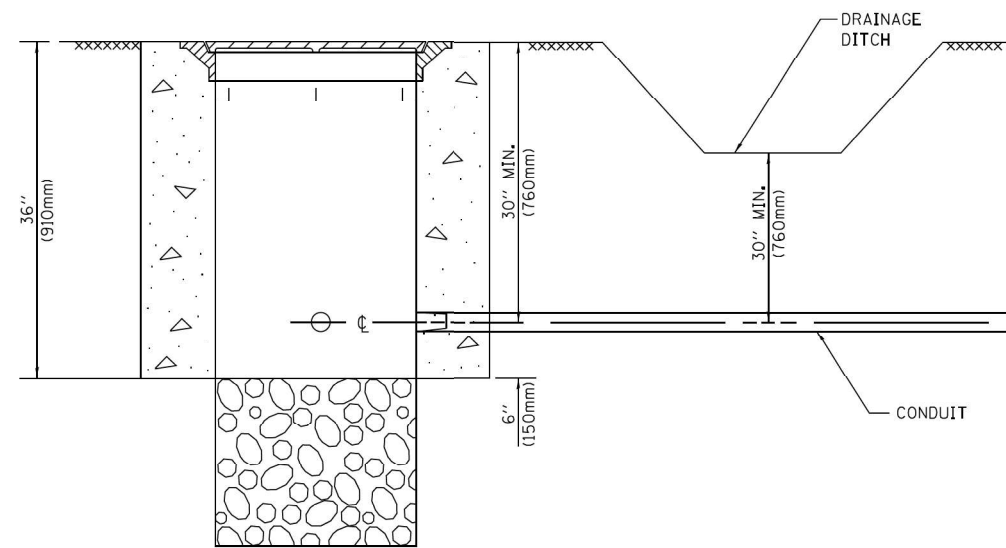
MAST ARM LENGTH	① FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or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

NOTES:

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

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

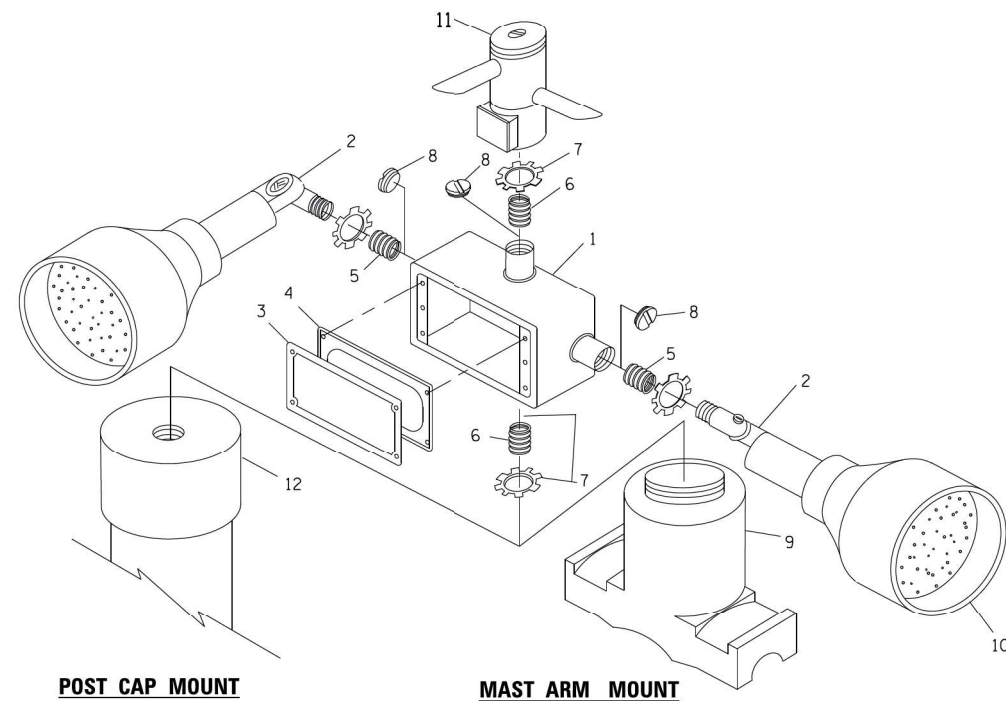
TS SHT NO. 06



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)

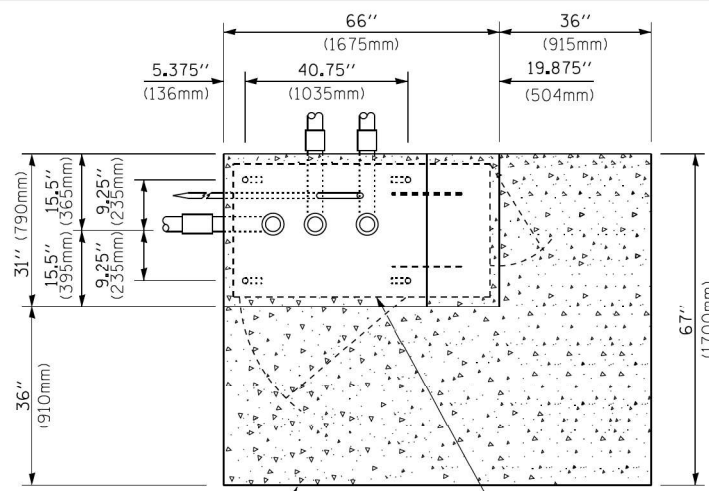


EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

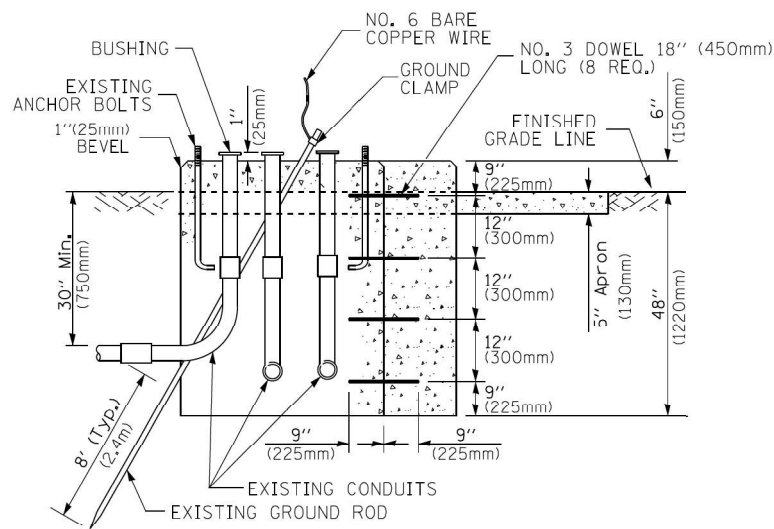
ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT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

NOTES:

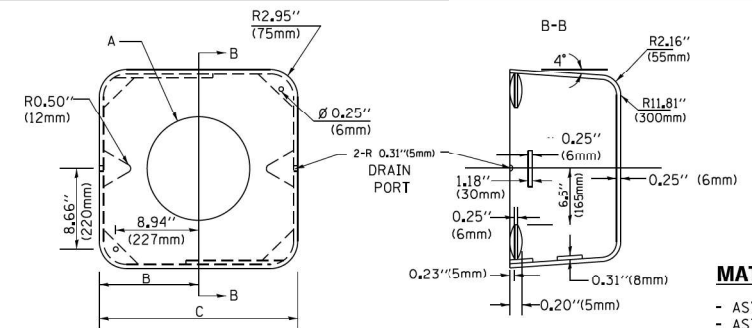
1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE 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.



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)

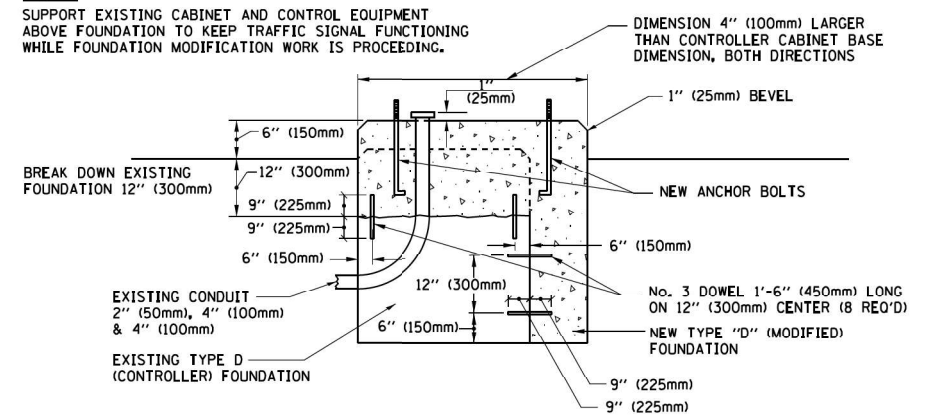
SHROUD

NOTES:

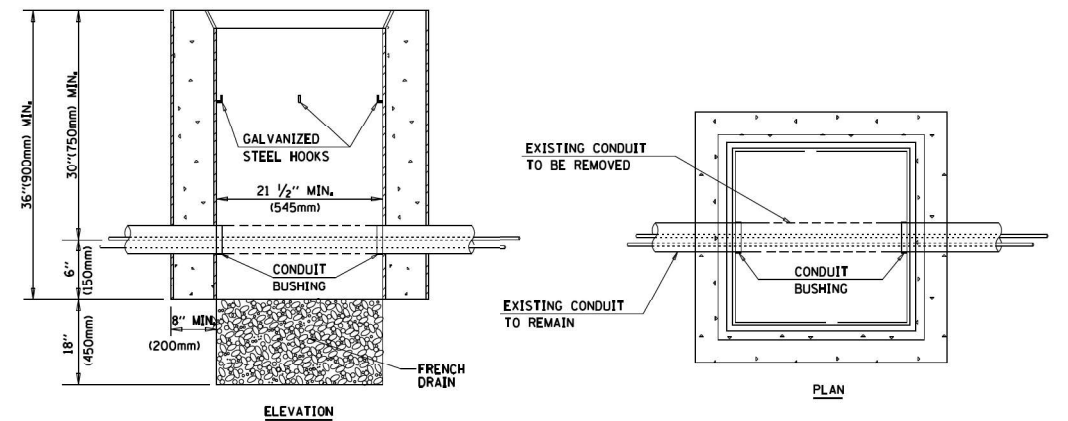
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

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



NOTES:

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

HANDHOLE TO INTERCEPT EXISTING CONDUIT

TS SHT NO. 07

FILE NAME =	USER NAME = foatemj	DESIGNED - DAD	REVISED - DAG 1-1-14
ca:\p\work\p\dot\Foatemj\d0108315\ts05.dgn		DRAWN - BCK	REVISED -
	PLOT SCALE = 50.0000' / 1"	CHECKED - DAD	REVISED -
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

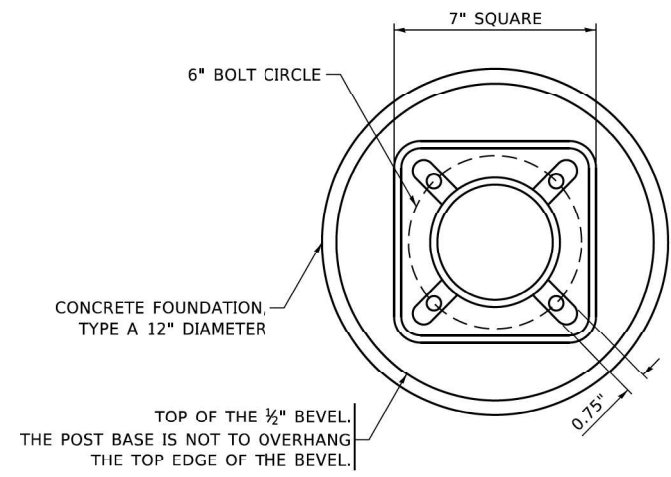
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE

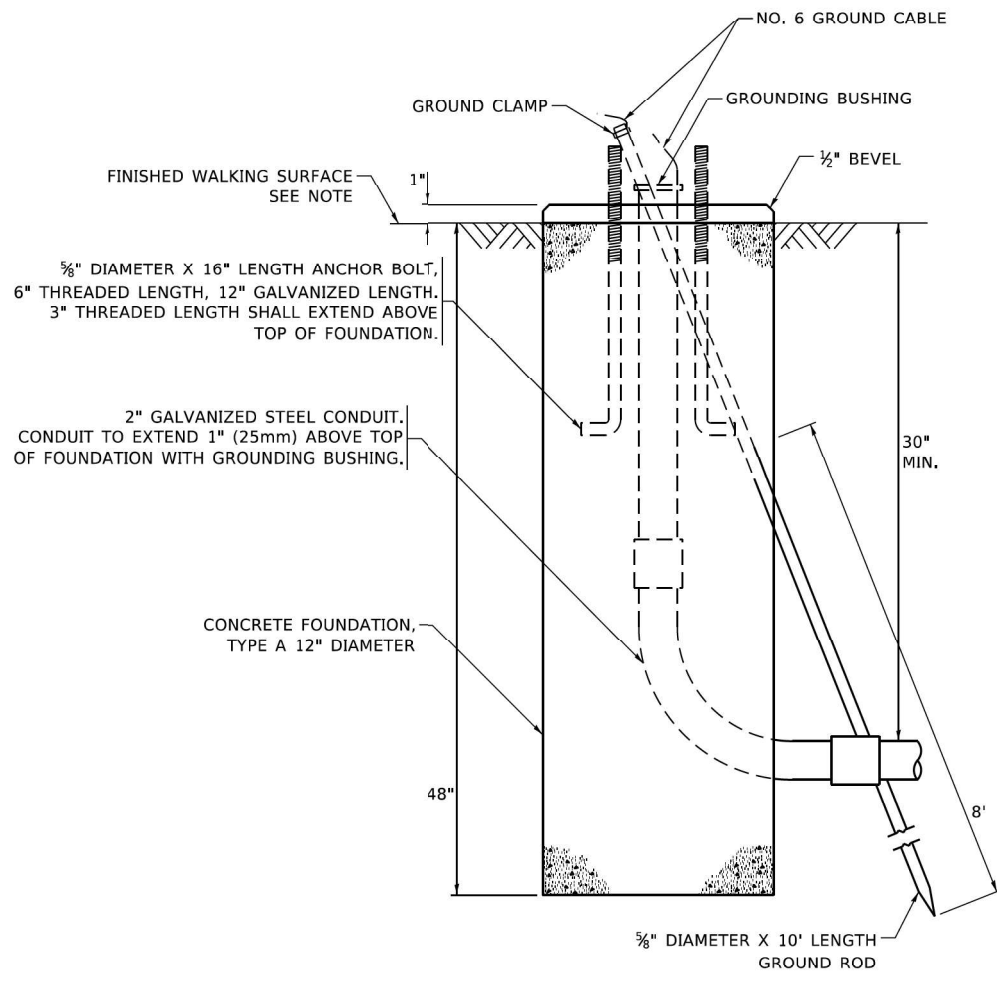
SHEET NO. 6 OF 7 SHEETS STA. TO STA.

F.A.P. RTE. 311	SECTION FAP 311 22 TS	COUNTY COOK	TOTAL SHEETS 45	SHEET NO. 21
TS-05		CONTRACT NO. 62U21		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

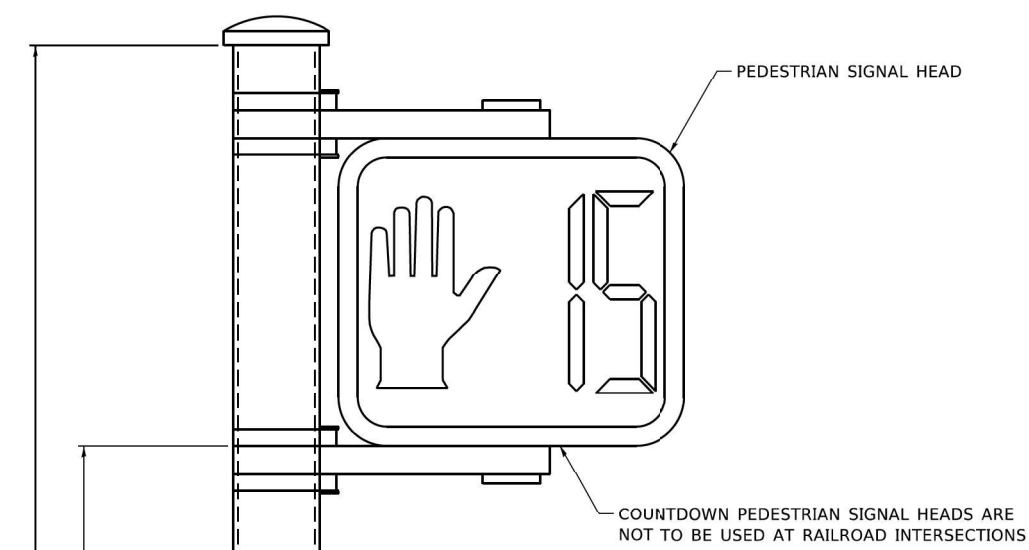


BOLT PATTERN

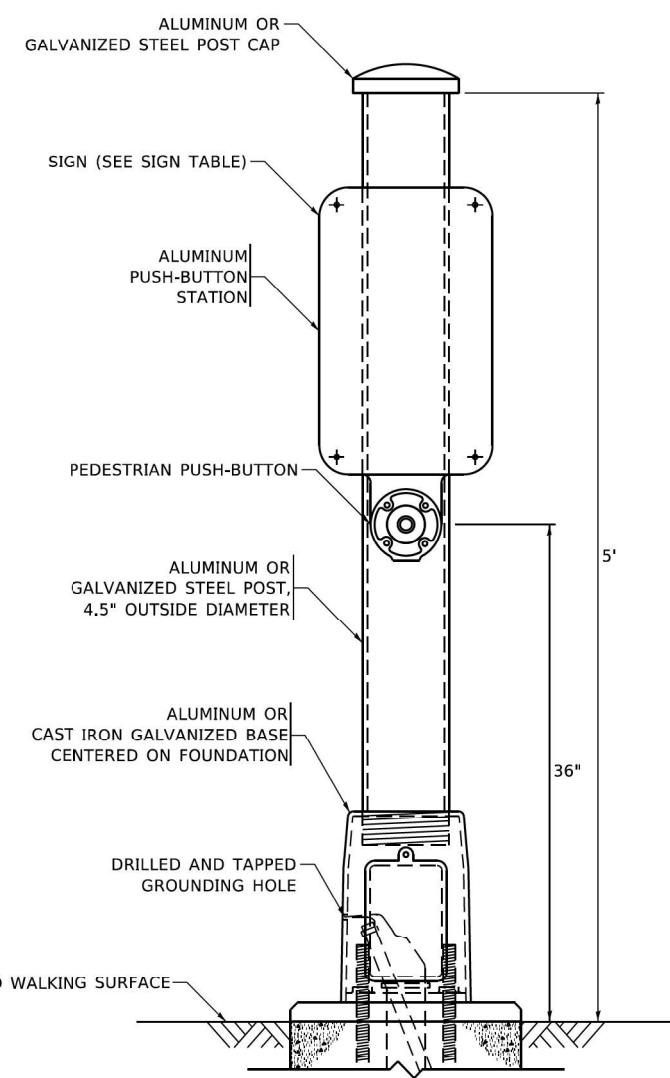
NOTE:
1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



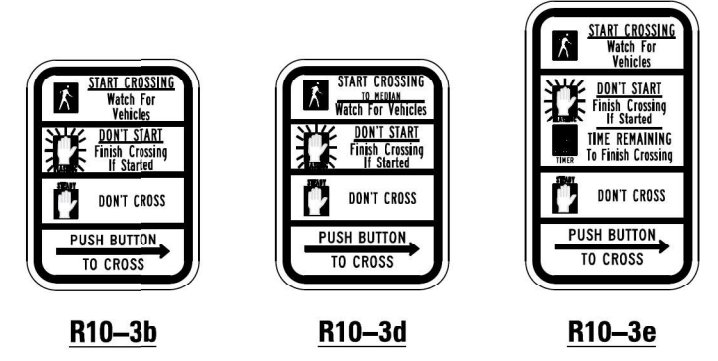
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER



PEDESTRIAN SIGNAL POST, 10 FT.



PEDESTRIAN SIGNAL POST, 5 FT.



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: Detail
 FILE NAME: p:\pub\mtdm\dot\illinois\p07\p1001\Documents\DOT Office\tsht\tsht1\Projects\Illinois\22\231\CAD\Drawn\CAD\shets\tsht05.dgn
TS SHT NO. 08

USER NAME = gagliarobt	DESIGNED - IP	REVISED - 10-15-2020
PLOT SCALE = 100.0000' / in.	DRAWN - IP	REVISED -
PLOT DATE = 11/23/2020	CHECKED - LP	REVISED -
	DATE - 10-15-2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

F.A.P. RTE. 311	SECTION FAP 311 22 TS	COUNTY COOK	TOTAL SHEETS 45	SHEET NO. 22
TS-05		CONTRACT NO. 62U21		
ILLINOIS FED. AID PROJECT				



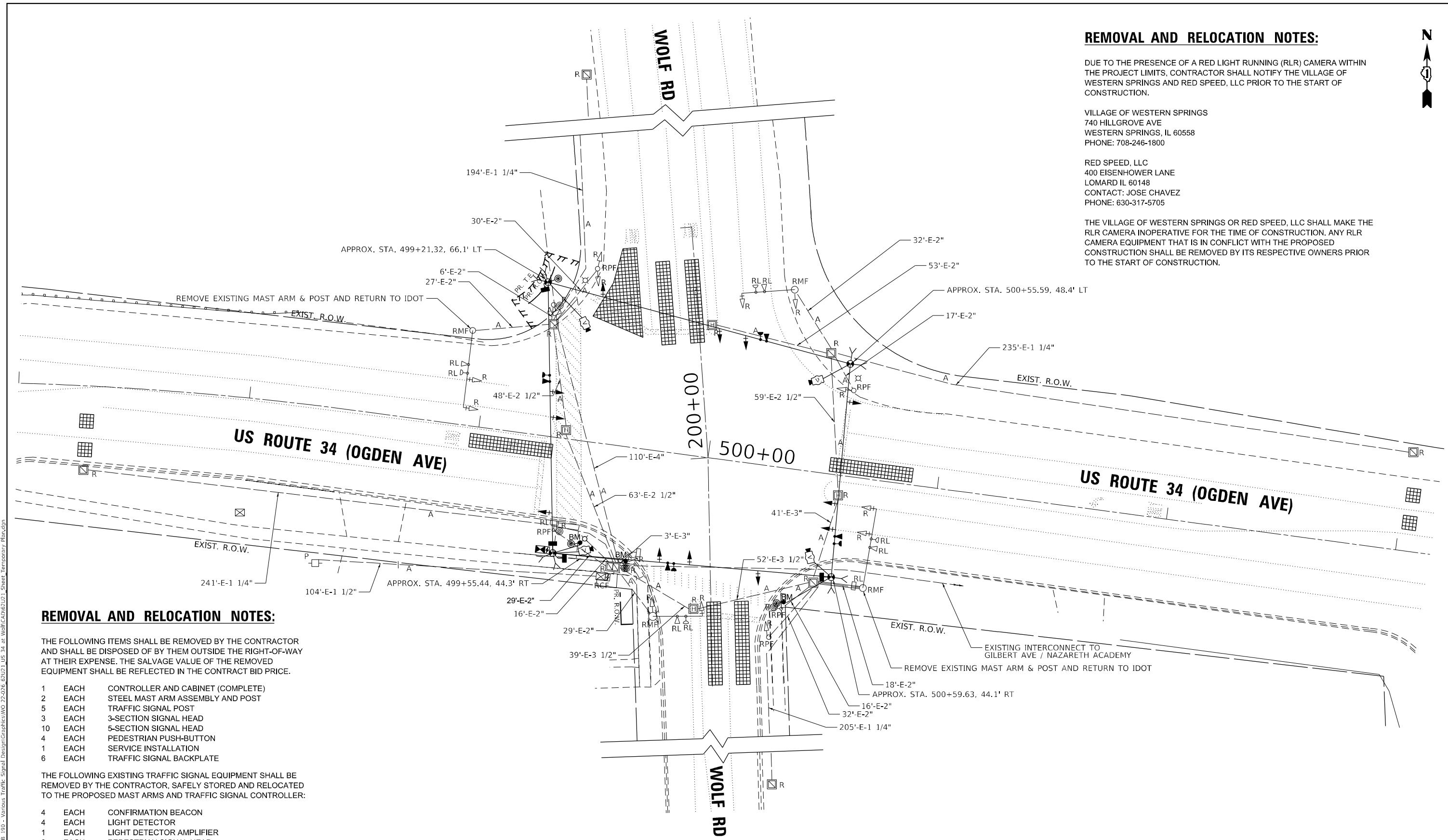
REMOVAL AND RELOCATION NOTES:

DUE TO THE PRESENCE OF A RED LIGHT RUNNING (RLR) CAMERA WITHIN THE PROJECT LIMITS, CONTRACTOR SHALL NOTIFY THE VILLAGE OF WESTERN SPRINGS AND RED SPEED, LLC PRIOR TO THE START OF CONSTRUCTION.

VILLAGE OF WESTERN SPRINGS
740 HILLGROVE AVE
WESTERN SPRINGS, IL 60558
PHONE: 708-246-1800

RED SPEED, LLC
400 EISENHOWER LANE
LOMARD IL 60148
CONTACT: JOSE CHAVEZ
PHONE: 630-317-5705

THE VILLAGE OF WESTERN SPRINGS OR RED SPEED, LLC SHALL MAKE THE RLR CAMERA INOPERATIVE FOR THE TIME OF CONSTRUCTION. ANY RLR CAMERA EQUIPMENT THAT IS IN CONFLICT WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED BY ITS RESPECTIVE OWNERS PRIOR TO THE START OF CONSTRUCTION.



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 CONTROLLER AND CABINET (COMPLETE)
- 2 EACH STEEL MAST ARM ASSEMBLY AND POST
- 5 EACH TRAFFIC SIGNAL POST
- 3 EACH 3-SECTION SIGNAL HEAD
- 10 EACH 5-SECTION SIGNAL HEAD
- 4 EACH PEDESTRIAN PUSH-BUTTON
- 1 EACH SERVICE INSTALLATION
- 6 EACH TRAFFIC SIGNAL BACKPLATE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

- 4 EACH CONFIRMATION BEACON
- 4 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER
- 2 EACH PEDESTRIAN SIGNAL HEAD

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF IDOT. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR THE PICK UP OF ALL THE EQUIPMENT.

- 2 EACH STEEL MAST ARM ASSEMBLY AND POST

TS SHT NO. 09

Sam Schwartz
200 S. WACKER
SUITE 1400
CHICAGO, IL 60606
TEL: (773) 305-0800

USER NAME = erica.salutz	DESIGNED - ERICA SALUTZ	REVISED -
	DRAWN - KATHLEEN MURPHY	REVISED -
PLOT SCALE = 40,0000 * / in.	CHECKED - PETER WOJTKIEWICZ	REVISED -
PLOT DATE = 11/14/2023	DATE - 11/7/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

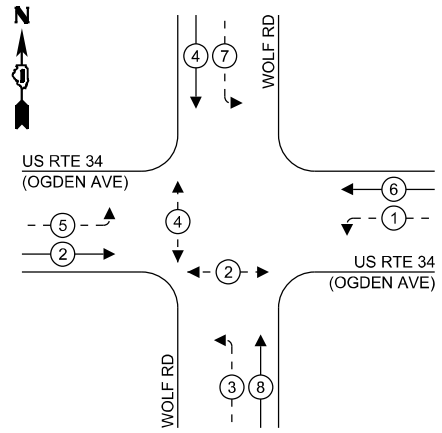
**TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
US RTE 34 (OGDEN AVE) AT WOLF RD**

SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 311 22 TS	COOK	45	23
			CONTRACT NO. 62U21	
		ILLINOIS	FED. AID PROJECT	

**TS 1480
EAGLE 5M**

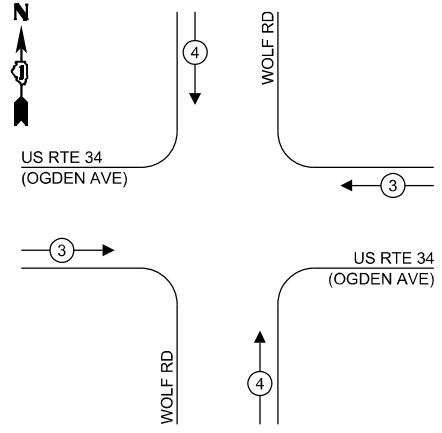
TEMPORARY CONTROLLER SEQUENCE



LEGEND:

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

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE

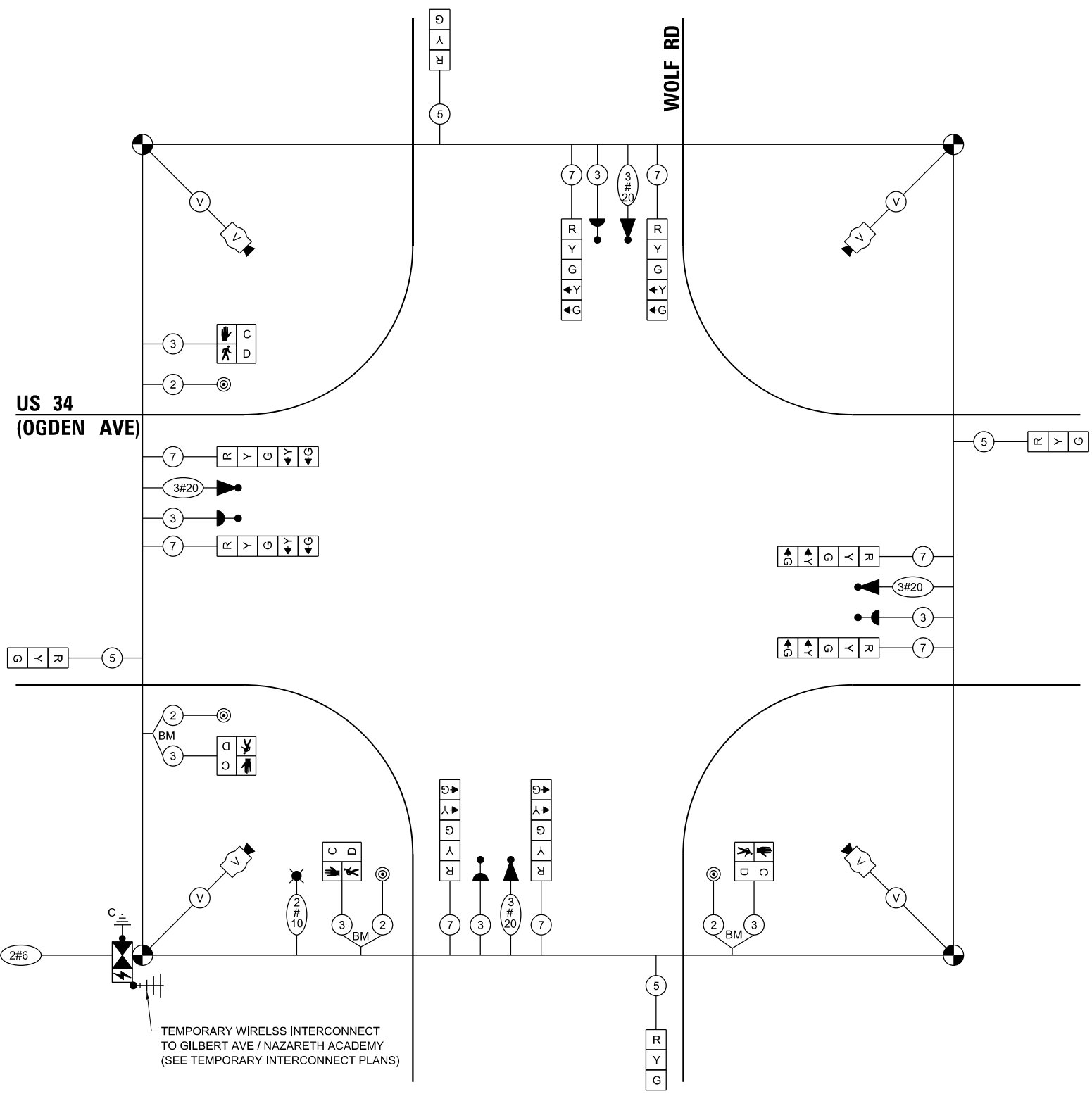


FILE NAME: M:\2019\311_CUH18_03-5500 IDOT PFB 180 - Various Traffic Signal Design\Graphics\2019_03-5500 IDOT PFB 180 - Various Traffic Signal Design\Cable Plan.dwg

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	TOTAL WATTAGE
SIGNAL HEAD			
3 - SECTION	4	11	44
4 - SECTION	-	14	-
5 - SECTION	8	13	104
PROGRAMMABLE SIGNALS			
3 - SECTION	-	22	-
4 - SECTION	-	32	-
5 - SECTION	-	28	-
PED. SIGNAL	4	15	60
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR	-	20	-
VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING =			383
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	1	15	15
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING =			1003

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
 201 W CENTER CT
 SCHAUMBURG, IL 60196
 ENERGY SUPPLY:
 CONTACT: NICK TULEJA
 PHONE: (440) 796-8979
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---



TS SHT NO. 10

Sam Schwartz
 200 S. WACKER
 SUITE 1400
 CHICAGO, IL 60606
 TEL: (773) 305-0800

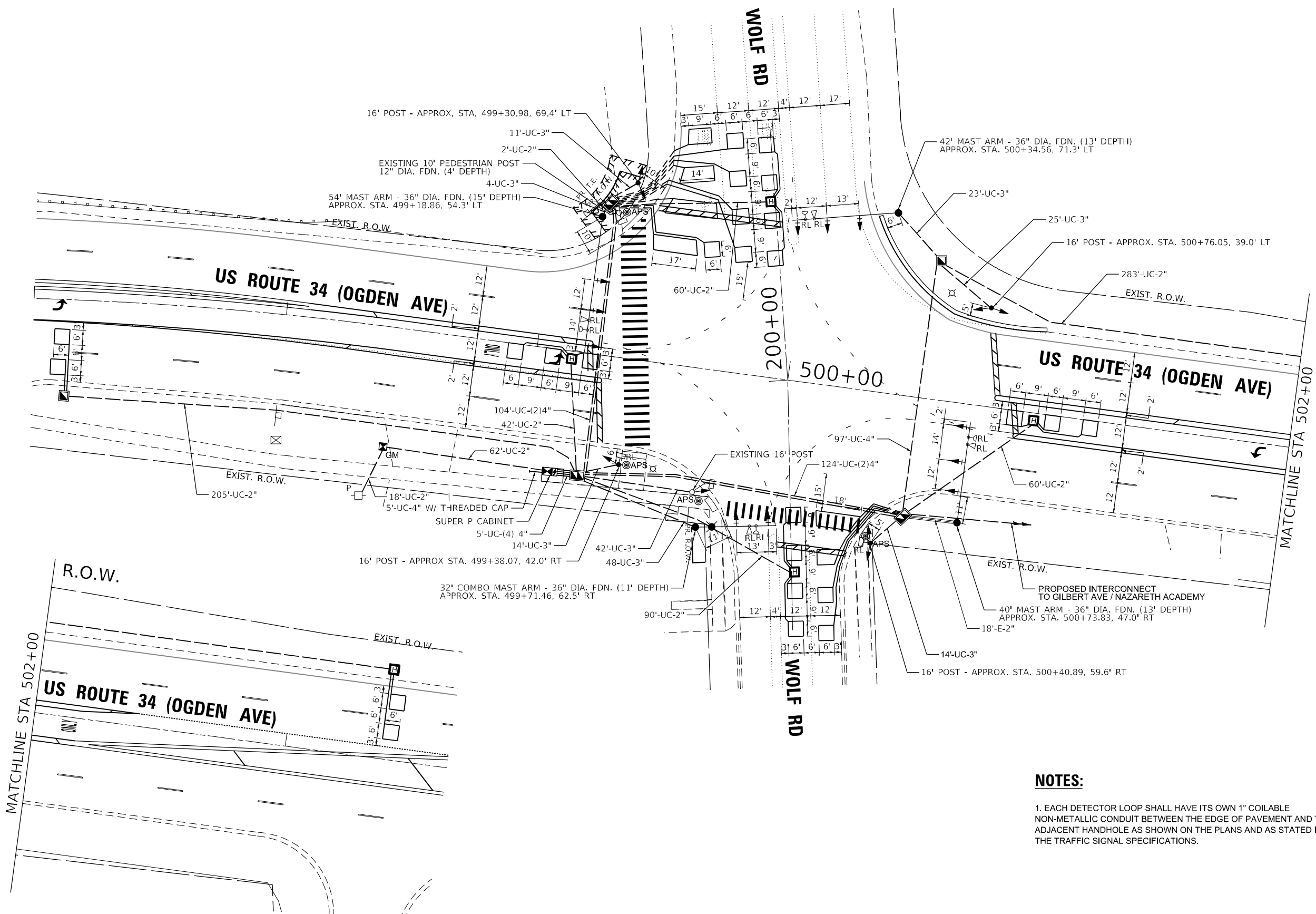
USER NAME = erica.salutz	DESIGNED - ERICA SALUTZ	REVISED -
PLOT SCALE = 40,0000 * / in.	DRAWN - KATHLEEN MURPHY	REVISED -
PLOT DATE = 11/14/2023	CHECKED - PETER WOJTKIEWICZ	REVISED -
	DATE - 11/7/2023	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM,
 AND TEMPORARY VEHICLE PREEMPTION SEQUENCE
 US RTE 34 (OGDEN AVE) AT WOLF RD**

F.A.P. RTE. 311	SECTION FAP 311 22 TS	COUNTY COOK	TOTAL SHEETS 45	SHEET NO. 24
CONTRACT NO. 62U21				
ILLINOIS FED. AID PROJECT				

**TS 1480
 EAGLE 5M**



NOTES:

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

TS SHT NO. 11

FILE NAME: M:\2019\31_Chr18-03-5500 IDOT_PTB_190 - Various Traffic Signs Design\Graphics\22-026-62U21_US 34 at Wolf\CD\62U21_Sheet_Proposed_R1a.dgn

Sam Schwartz
 200 S. WACKER
 SUITE 1400
 CHICAGO, IL 60606
 TEL: (773) 305-0800

USER NAME = erica.salutz	DESIGNED - ERICA SALUTZ	REVISED -
PLOT SCALE = 40,0000 * / in.	DRAWN - KATHLEEN MURPHY	REVISED -
PLOT DATE = 11/14/2023	CHECKED - PETER WOJTKIEWICZ	REVISED -
	DATE - 11/7/2023	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

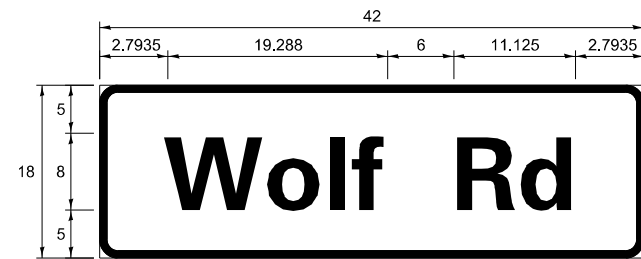
**TRAFFIC SIGNAL MODERNIZATION PLAN
 US RTE 34 (OGDEN AVE) AT WOLF RD**
 SCALE: 1" = 20'
 SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 311 22 TS	COOK	45	25
CONTRACT NO. 62U21				
ILLINOIS FED. AID PROJECT				

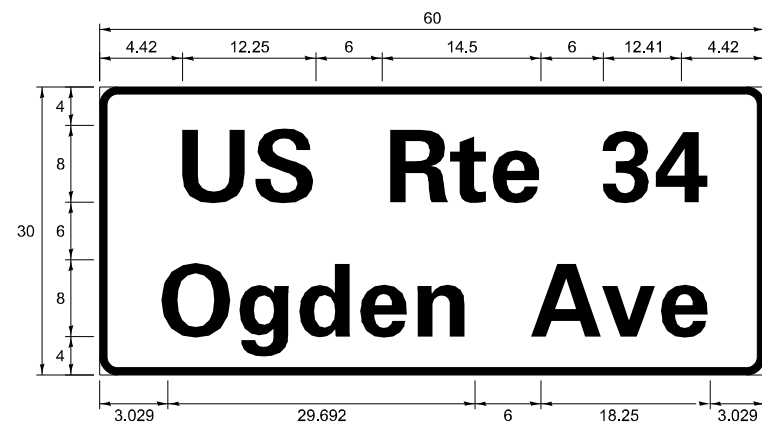
**TS 1480
 EAGLE 5M**

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY REQUIRED
D	5.25	1	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY REQUIRED
D	12.5	2	ZZ	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY
SIGN PANEL - TYPE 1	SQ FT	11
SIGN PANEL - TYPE 2	SQ FT	25
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	822
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	181
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	578
HANDHOLE	EACH	2
HEAVY-DUTY HANDHOLE	EACH	5
DOUBLE HANDHOLE	EACH	3
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	460
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1397
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2057
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1964
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2634
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	95
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	669
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 54 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E, 36-INCH DIAMETER	FOOT	52
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	5
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	11
INDUCTIVE LOOP DETECTOR	EACH	11
DETECTOR LOOP, TYPE I	FOOT	1553
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	2
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	4
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	2
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	11
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	10
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	909
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
LED SIGNAL FACE, LENS COVER	FOOT	19

* 100% COST TO THE VILLAGE OF WESTERN SPRINGS

TS SHT NO. 13

FILE NAME: M:\2019\31 CHN18-03-5500 IDOT FTB_190 - Various Traffic Signs\Design\Graphics\NO. 22-026-62U21_US 34 at Wolf\CD\62U21_Sheet_Mast_Arm_Signs & 500.dgn

Sam Schwartz
200 S. WACKER
SUITE 1400
CHICAGO, IL 60606
TEL: (773) 305-0800

USER NAME = erica.salutz	DESIGNED - ERICA SALUTZ	REVISED -
PLOT SCALE = 40,0000 */ in.	DRAWN - KATHLEEN MURPHY	REVISED -
PLOT DATE = 11/16/2023	CHECKED - PETER WOJTKIEWICZ	REVISED -
	DATE - 11/16/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
US RTE 34 (OGDEN AVE) AT WOLF RD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 311 22 TS	COOK	45	27
CONTRACT NO. 62U21				
ILLINOIS FED. AID PROJECT				

TS 1480
EAGLE 5M

FILE NAME: M:\2019\3_Civil\8-03-5500 IDOT FTB_190 - Various Traffic_Signs\Design\Graphics\22-026-62U21_US 34 at Wolf\CAD\62U21_Sheet_Temporary Interconnect Schematic.dgn

Sam Schwartz
 200 S. WACKER
 SUITE 1400
 CHICAGO, IL 60606
 TEL: (773) 305-0800

USER NAME = erica.salutz
PLOT SCALE = 100,0000' / in.
PLOT DATE = 11/14/2023

DESIGNED - ERICA SALUTZ	REVISED -
DRAWN - KATHLEEN MURPHY	REVISED -
CHECKED - PETER WOJTKIEWICZ	REVISED -
DATE - 11/7/2023	REVISED -

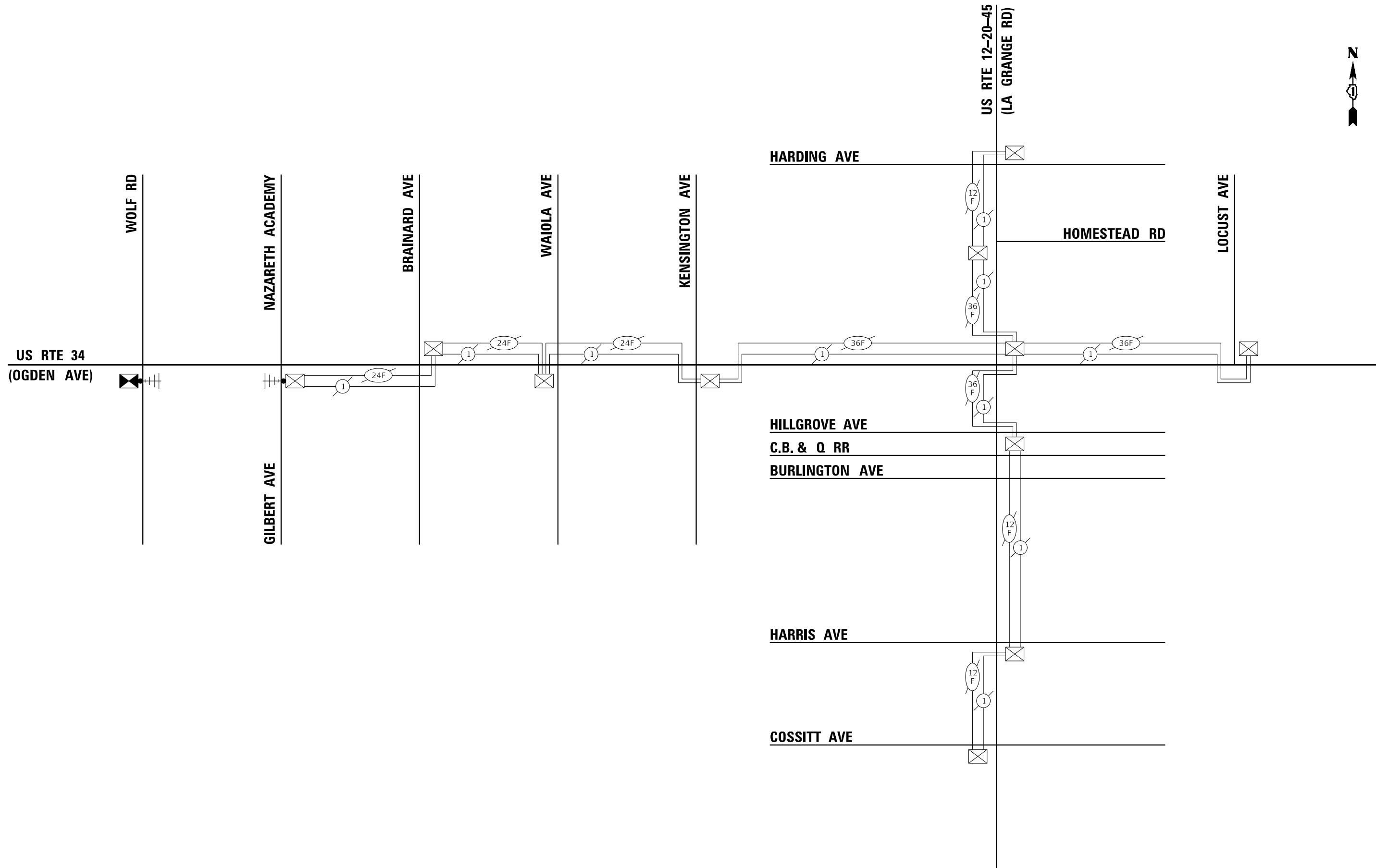
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

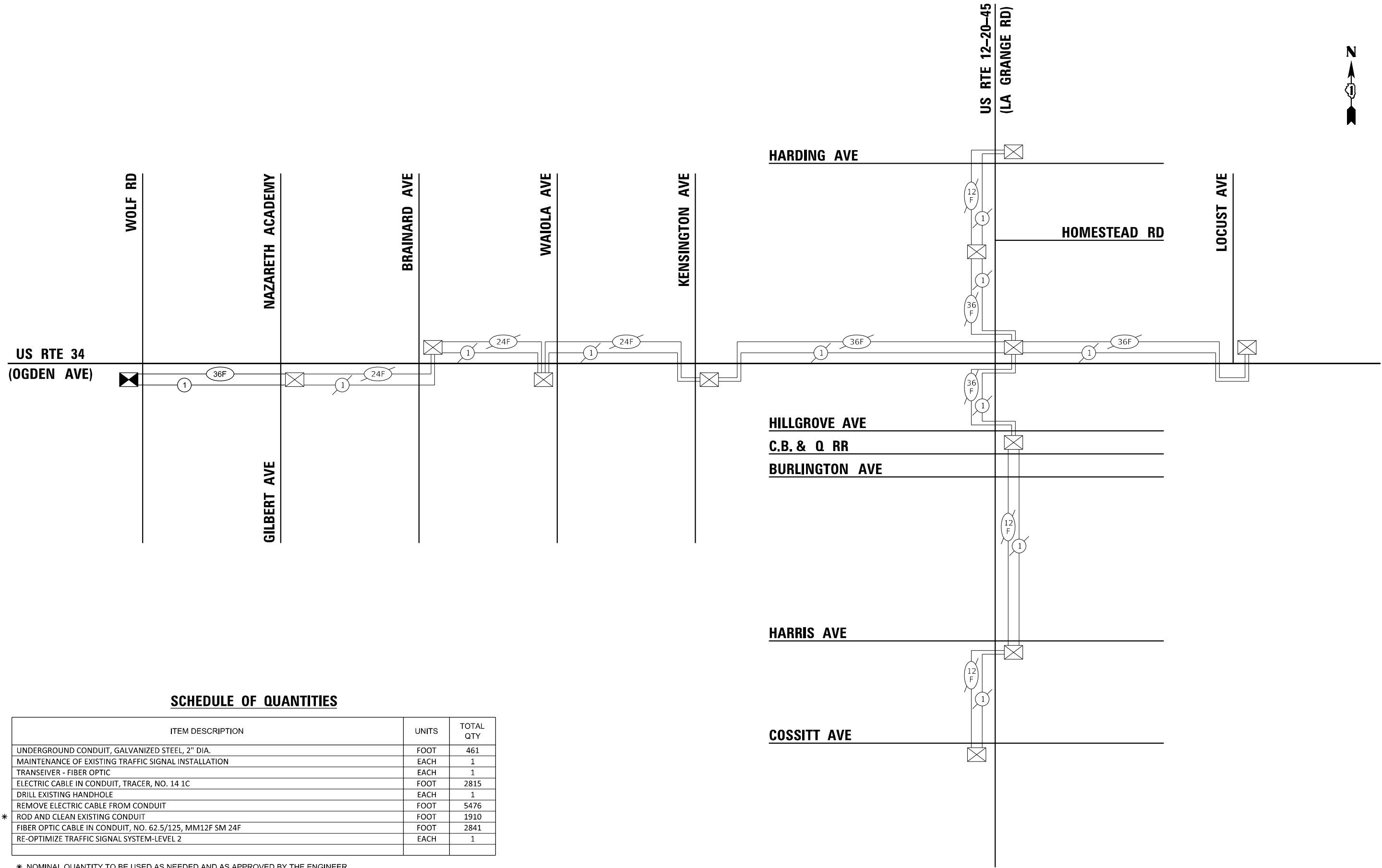
**TEMPORARY INTERCONNECT SCHEMATIC
 US RTE 34 (OGDEN AVE) - WOLF RD TO LOCUST AVE
 US RTE 12-20-45 (LA GRANGE RD) - COSSITT AVE TO HARDING AVE**

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

F.A.P. RTE. 311	SECTION FAP 311 22 TS	COUNTY COOK	TOTAL SHEETS 45	SHEET NO. 28
ILLINOIS			FED. AID PROJECT	

EAGLE 5M





SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	461
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRANSEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	2815
DRILL EXISTING HANDHOLE	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	5476
* ROD AND CLEAN EXISTING CONDUIT	FOOT	1910
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM 24F	FOOT	2841
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM-LEVEL 2	EACH	1

* NOMINAL QUANTITY TO BE USED AS NEEDED AND AS APPROVED BY THE ENGINEER

Sam Schwartz
200 S. WACKER
SUITE 1400
CHICAGO, IL 60606
TEL: (773) 305-0800

USER NAME = erica.salutz	DESIGNED - ERICA SALUTZ	REVISED -
	DRAWN - KATHLEEN MURPHY	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - PETER WOJTKIEWICZ	REVISED -
PLOT DATE = 11/14/2023	DATE - 11/7/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES
US RTE 34 (OGDEN AVE) - WOLF RD TO LOCUST AVE
US RTE 12-20-45 (LA GRANGE RD) - COSSITT AVE TO HARDING AVE**

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

F.A.P. RTE. 311	SECTION FAP 311 22 TS	COUNTY COOK	TOTAL SHEETS 45	SHEET NO. 30
CONTRACT NO. 62U21				
ILLINOIS FED. AID PROJECT				

EAGLE 5M

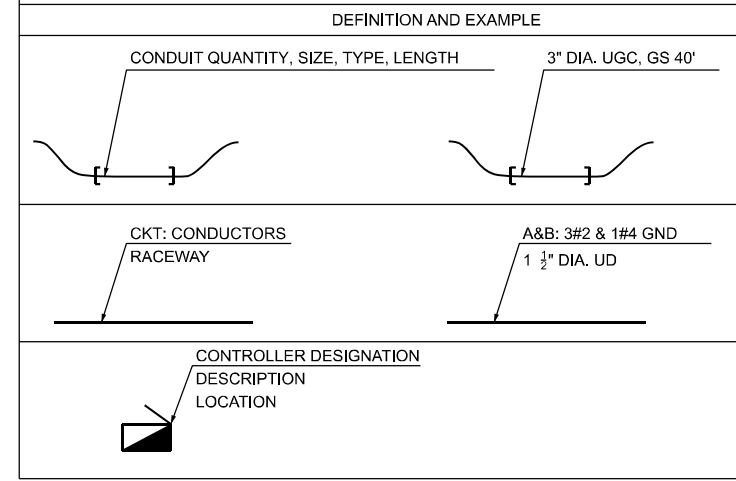
LIGHTING AND ELECTRICAL LEGEND

	INSTALL LUMINAIRE, LED, HORIZONTAL MOUNT, OUTPUT DESTINATION F, POLE WIRING, FUSES AND LUMINAIRE SAFETY CABLE ON EXISTING LIGHT POLE
	INSTALL LUMINAIRE, LED, HORIZONTAL MOUNT, OUTPUT DESTINATION H, POLE WIRING, FUSES AND LUMINAIRE SAFETY CABLE ON EXISTING LIGHT POLE
	EXISTING LIGHT POLE AND FOUNDATION TO REMAIN, EXISTING LUMINAIRE SAFETY CABLE TO BE REMOVED, EXISTING LUMINAIRE TO BE REMOVED, SALVAGED.
	TEMPORARY 15 FT MAST ARM WITH HPS LUMINAIRE INSTALLED ON TEMPORARY TRAFFIC SIGNAL WOOD POLE
	EXISTING IDOT COMBINATION LIGHTING UNIT TO BE REMOVED
	PROPOSED IDOT COMBINATION LIGHTING UNIT, 45 FT LUMINAIRE M.H. U.N.O., 15 FT MAST ARM, LUMINAIRE TO BE LED HORIZONTAL MOUNT., DESIGNATION G, 120V WITH 6 AMP FUSE & NEUTRAL SLUG
	TEMPORARY WOOD POLE, 40 FT., CLASS 4
	ELECTRIC AERIAL CABLE, SIZE AS NOTED
	EXISTING UNIT DUCT OR CONDUIT TO REMAIN
	EXISTING UNDERGROUND UNIT DUCT OR CONDUIT TO BE ABANDONED IN PLACE
	PROPOSED UNIT DUCT, SIZE AND TYPE AS NOTED
	EXISTING LIGHTING CONTROLLER

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
AC	ALTERNATING CURRENT
A/C	AERIAL CABLE
ATS	ATTACHED TO STRUCTURE
B.O.C.	BACK OF CURB
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CM	CENTIMETER
COMED	COMMONWEALTH EDISON COMPANY
CP	CONTROL PANEL
CT	CURRENT TRANSFORMER
DA	DAVIT ARM
DC	DIRECT CURRENT
DIA	DIAMETER
DP	DISTRIBUTION PANEL
E	EXISTING UNIT TO REMAIN
EX.	EXISTING
ECA	ELECTRIC CABLE ASSEMBLY
EIS	EMBEDDED IN STRUCTURE
E.O.P.	EDGE OF PAVEMENT
F.O.C.	FACE OF CURB
FT	FEET OR FOOT
FU	FUSE
GND	GROUND
HID	HIGH INTENSITY DISCHARGE
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERE
KW	KILOWATTS
LED	LIGHT EMITTING DIODE
LP	LIGHT POLE
M	METER
MA	MAST ARM
MC	MULTI-CONDUCTOR
MM	MILLIMETER
M.H.	MOUNTING HEIGHT
MW	MESSANGER WIRE
NESC	NATIONAL ELECTRIC SAFETY CODE
NO. #	NUMBER
N.T.S.	NOT TO SCALE
P	PROPOSED
PB	PUSH BUTTON
PNL	PANEL
PVC	POLYVINYL CHLORIDE
PVCC RGC	PVC COATED RIGID GALVANIZED CONDUIT
PT	POTENTIAL TRANSFORMER
R	EXISTING UNIT TO BE REMOVED (OWNER SALVAGED U.N.O.)
RR	EXISTING UNIT TO BE REMOVED AND REINSTALLED
RECP	RECEPTACLE
RGC	RIGID GALVANIZED CONDUIT
SEL SW	SELECTOR SWITCH
SPARE	SPARE
SPACE	SPACE
SS	STAINLESS STEEL
STA	STATION
T/F	TOP OF FOUNDATION
UD	UNIT DUCT
U.N.O.	UNLESS NOTED OTHERWISE
UGC, GS	UNDERGROUND CONDUIT, GALVANIZED STEEL
VAC	VOLTS, ALTERNATING CURRENT
W	WATTS
WP	WOOD POLE
XFMR	TRANSFORMER
HPS	HIGH PRESSURE SODIUM
LPS	LOW PRESSURE SODIUM
LTFM	LIQUID TIGHT FLEXIBLE METALLIC

CALL-OUT SAMPLE



GENERAL NOTES

- THE ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST CODES, STANDARDS AND THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2024, AND SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS.
- THE CONTRACTOR SHALL CONTACT MEADE ELECTRIC CO. DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR TO LOCATE IDOT ELECTRICAL EQUIPMENT AND UNDERGROUND CABLES 773-287-7672.

IDOT-D1 STANDARDS:

STANDARD NO.	TITLE
BE-240	COMBINATION LIGHTING, TRAFFIC SIGNAL SCHEMATIC
BE-701	LUMINAIRE SAFETY CABLE ASSEMBLY
BE-702	MISC. ELECTRICAL DETAILS SHEET A
BE-800	TEMPORARY LIGHT POLE DETAILS

INDEX OF DRAWINGS:

DRAWING NO.	TITLE
LT-01	LIGHTING LEGEND, GENERAL NOTES, BILL OF MATERIALS AND INDEX OF DRAWINGS
LT-02	US ROUTE 34 (OGDEN AVE) AT WOLF ROAD TEMPORARY LIGHTING AND REMOVAL PLAN
LT-03	US ROUTE 34 (OGDEN AVE) AT WOLF ROAD PROPOSED LIGHTING PLAN
LT-04	WIRING DIAGRAM - IDOT CONTROLLER "BW"
LT-05	US ROUTE 34 (OGDEN AVE) AT WOLF ROAD COMBINATION LIGHTING CONTROLLER WIRING DIAGRAM
LT-06	IDOT D1 STANDARD DRAWING BE-240
LT-07	IDOT D1 STANDARD DRAWING BE-701
LT-08	IDOT D1 STANDARD DRAWING BE-702
LT-09	IDOT D1 STANDARD DRAWING BE-800

BILL OF MATERIALS:

ITEM	UNIT	TOTAL QTY
UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	480
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	160
AERIAL CABLE, 2-1/C NO. 4 WITH MESSANGER WIRE	FOOT	200
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION F	EACH	4
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	16
TEMPORARY WOOD POLE, 40 FT., CLASS 4	EACH	1
REMOVAL OF LUMINAIRE, SALVAGE	EACH	20
COMBINATION LIGHTING CONTROLLER	EACH	1
RELOCATE EXISTING LUMINAIRE	EACH	1
TEMPORARY MAST ARM, ALUMINUM, 15FT	EACH	1
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	20
MAINTENANCE OF LIGHTING SYSTEM	CAL MO	6

MODEL: MODEL NAMES
FILE NAME: D:\2024\240224\lighting\LT-01.dgn



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PLOT DATE = 3/21/2024	DATE - 3/19/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING LEGEND, GENERAL NOTES, BILL OF MATERIALS,
AND INDEX OF DRAWINGS

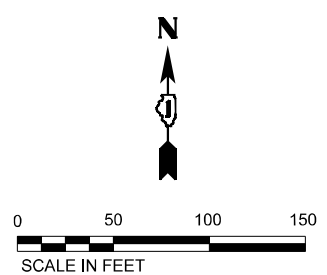
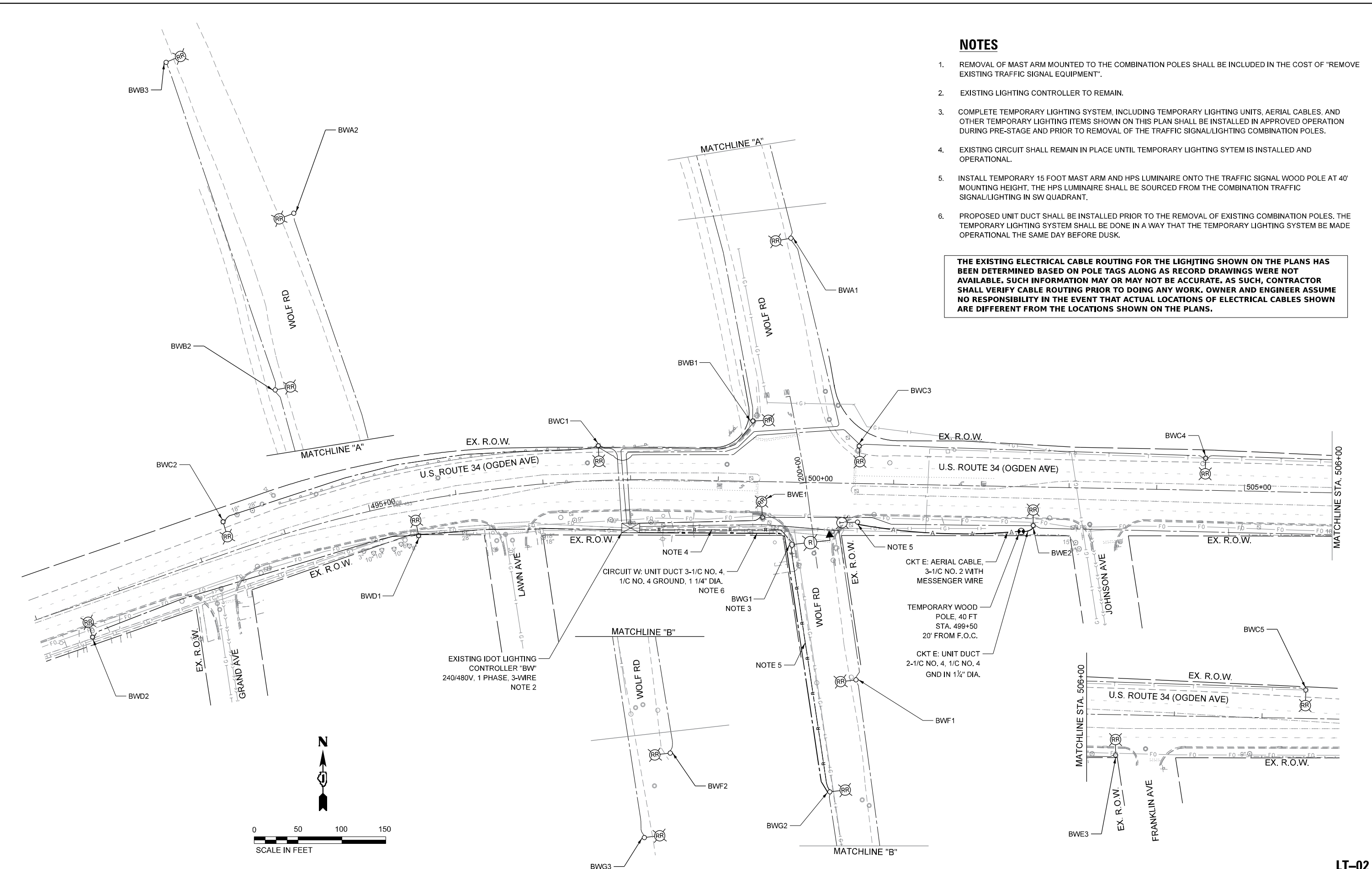
F.A.P. RTE. 311	SECTION FAP 311 22 TS	COUNTY COOK	TOTAL SHEETS 45	SHEET NO. 31
CONTRACT NO. 62U21			ILLINOIS FED. AID PROJECT	

LT-01

NOTES

1. REMOVAL OF MAST ARM MOUNTED TO THE COMBINATION POLES SHALL BE INCLUDED IN THE COST OF "REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT".
2. EXISTING LIGHTING CONTROLLER TO REMAIN.
3. COMPLETE TEMPORARY LIGHTING SYSTEM, INCLUDING TEMPORARY LIGHTING UNITS, AERIAL CABLES, AND OTHER TEMPORARY LIGHTING ITEMS SHOWN ON THIS PLAN SHALL BE INSTALLED IN APPROVED OPERATION DURING PRE-STAGE AND PRIOR TO REMOVAL OF THE TRAFFIC SIGNAL/LIGHTING COMBINATION POLES.
4. EXISTING CIRCUIT SHALL REMAIN IN PLACE UNTIL TEMPORARY LIGHTING SYSTEM IS INSTALLED AND OPERATIONAL.
5. INSTALL TEMPORARY 15 FOOT MAST ARM AND HPS LUMINAIRE ONTO THE TRAFFIC SIGNAL WOOD POLE AT 40' MOUNTING HEIGHT. THE HPS LUMINAIRE SHALL BE SOURCED FROM THE COMBINATION TRAFFIC SIGNAL/LIGHTING IN SW QUADRANT.
6. PROPOSED UNIT DUCT SHALL BE INSTALLED PRIOR TO THE REMOVAL OF EXISTING COMBINATION POLES. THE TEMPORARY LIGHTING SYSTEM SHALL BE DONE IN A WAY THAT THE TEMPORARY LIGHTING SYSTEM BE MADE OPERATIONAL THE SAME DAY BEFORE DUSK.

THE EXISTING ELECTRICAL CABLE ROUTING FOR THE LIGHTING SHOWN ON THE PLANS HAS BEEN DETERMINED BASED ON POLE TAGS ALONG AS RECORD DRAWINGS WERE NOT AVAILABLE. SUCH INFORMATION MAY OR MAY NOT BE ACCURATE. AS SUCH, CONTRACTOR SHALL VERIFY CABLE ROUTING PRIOR TO DOING ANY WORK. OWNER AND ENGINEER ASSUME NO RESPONSIBILITY IN THE EVENT THAT ACTUAL LOCATIONS OF ELECTRICAL CABLES SHOWN ARE DIFFERENT FROM THE LOCATIONS SHOWN ON THE PLANS.



MODEL: SINGH\BIM\BIMFILES
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PLOT DATE = 3/21/2024		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US ROUTE 34 (OGDEN AVE) AT WOLF ROAD
TEMPORARY LIGHTING AND REMOVAL PLAN**

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

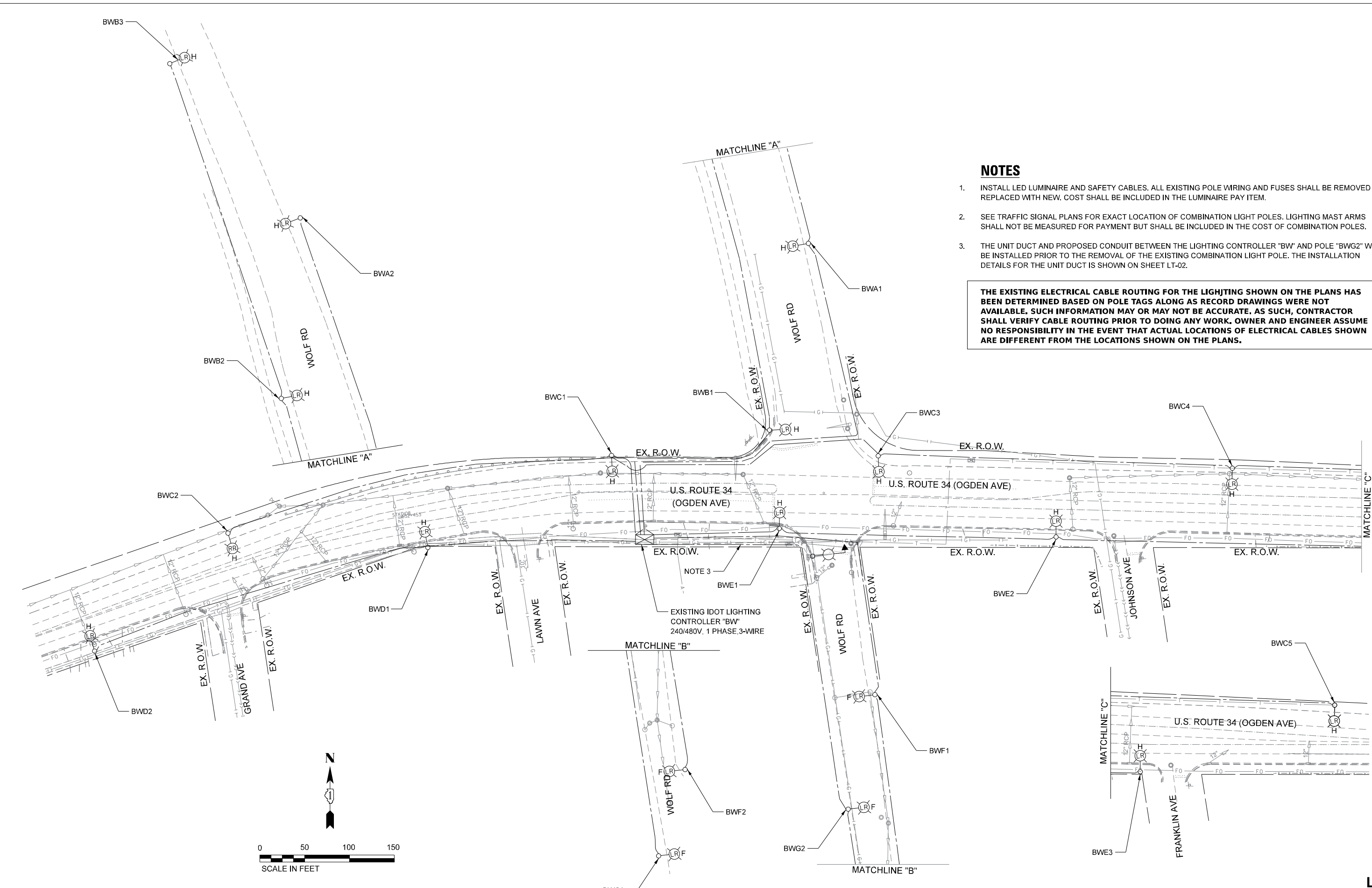
F.A.P. RTE. 311	SECTION FAP 311 22 TS	COUNTY COOK	TOTAL SHEETS 45	SHEET NO. 32
CONTRACT NO. 62U21				
ILLINOIS FED. AID PROJECT				

LT-02

NOTES

1. INSTALL LED LUMINAIRE AND SAFETY CABLES. ALL EXISTING POLE WIRING AND FUSES SHALL BE REMOVED AND REPLACED WITH NEW. COST SHALL BE INCLUDED IN THE LUMINAIRE PAY ITEM.
2. SEE TRAFFIC SIGNAL PLANS FOR EXACT LOCATION OF COMBINATION LIGHT POLES. LIGHTING MAST ARMS SHALL NOT BE MEASURED FOR PAYMENT BUT SHALL BE INCLUDED IN THE COST OF COMBINATION POLES.
3. THE UNIT DUCT AND PROPOSED CONDUIT BETWEEN THE LIGHTING CONTROLLER "BW" AND POLE "BWG2" WILL BE INSTALLED PRIOR TO THE REMOVAL OF THE EXISTING COMBINATION LIGHT POLE. THE INSTALLATION DETAILS FOR THE UNIT DUCT IS SHOWN ON SHEET LT-02.

THE EXISTING ELECTRICAL CABLE ROUTING FOR THE LIGHTING SHOWN ON THE PLANS HAS BEEN DETERMINED BASED ON POLE TAGS ALONG AS RECORD DRAWINGS WERE NOT AVAILABLE. SUCH INFORMATION MAY OR MAY NOT BE ACCURATE. AS SUCH, CONTRACTOR SHALL VERIFY CABLE ROUTING PRIOR TO DOING ANY WORK. OWNER AND ENGINEER ASSUME NO RESPONSIBILITY IN THE EVENT THAT ACTUAL LOCATIONS OF ELECTRICAL CABLES SHOWN ARE DIFFERENT FROM THE LOCATIONS SHOWN ON THE PLANS.



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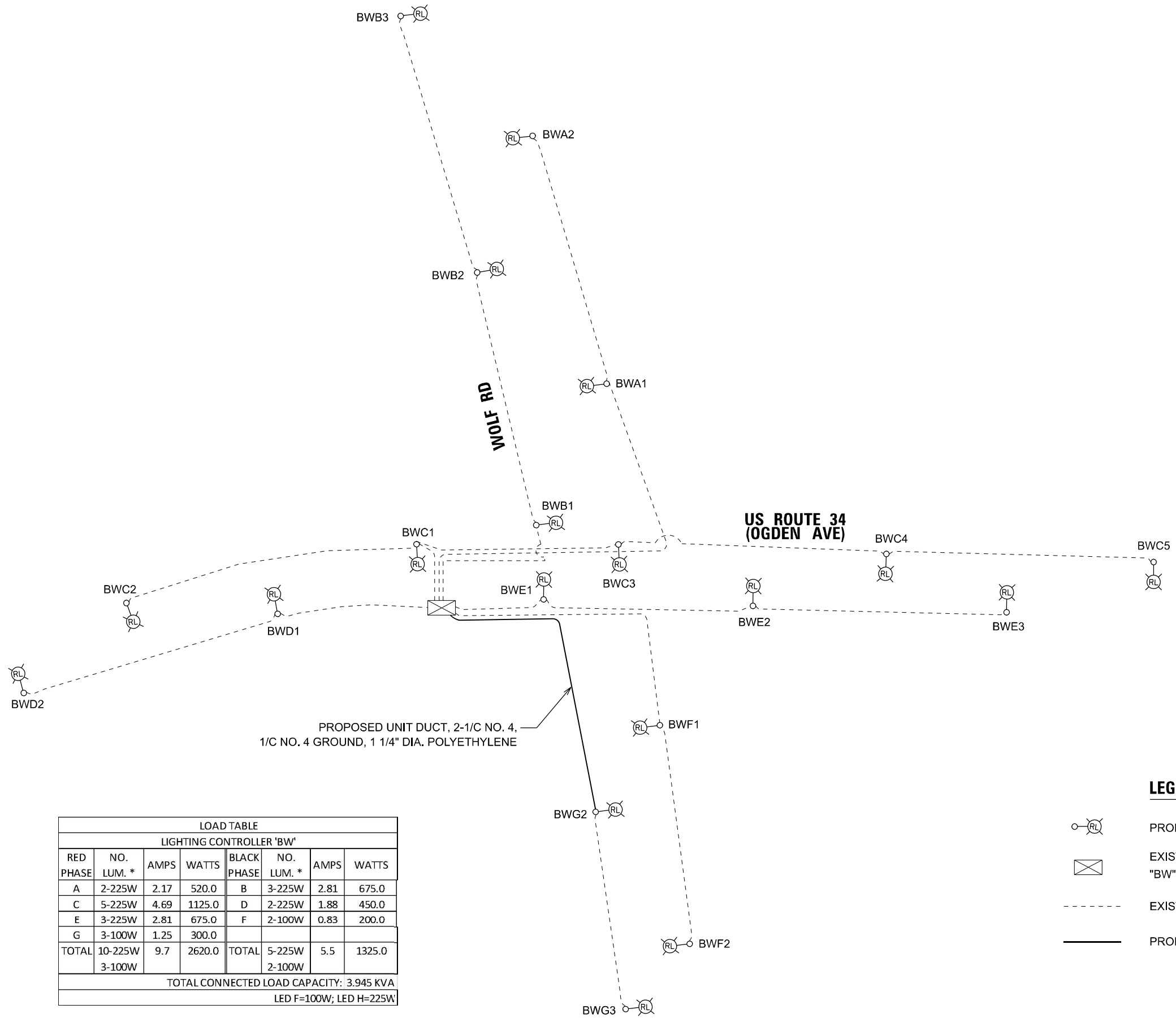
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PLOT DATE = 3/21/2024		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US ROUTE 34 (OGDEN AVE) AT WOLF ROAD
PROPOSED LIGHTING PLAN**

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

F.A.P. RTE. 311	SECTION FAP 311 22 TS	COUNTY COOK	TOTAL SHEETS 45	SHEET NO. 33
CONTRACT NO. 62U21				
ILLINOIS FED. AID PROJECT				



PROPOSED UNIT DUCT, 2-1/C NO. 4,
1/C NO. 4 GROUND, 1 1/4" DIA. POLYETHYLENE

LOAD TABLE							
LIGHTING CONTROLLER 'BW'							
RED PHASE	NO. LUM. *	AMPS	WATTS	BLACK PHASE	NO. LUM. *	AMPS	WATTS
A	2-225W	2.17	520.0	B	3-225W	2.81	675.0
C	5-225W	4.69	1125.0	D	2-225W	1.88	450.0
E	3-225W	2.81	675.0	F	2-100W	0.83	200.0
G	3-100W	1.25	300.0				
TOTAL	10-225W 3-100W	9.7	2620.0	TOTAL	5-225W 2-100W	5.5	1325.0
TOTAL CONNECTED LOAD CAPACITY: 3.945 KVA							
LED F=100W; LED H=225W							

- LEGEND**
- PROPOSED IDOT LED LUMINAIRE
 - EXISTING IDOT LIGHTING CONTROLLER "BW" 240/480V, 1 PHASE, 3 WIRE
 - EXISTING CIRCUIT
 - PROPOSED CIRCUIT

MODEL: SINGH\PROJECTS\62U21\Wiring_DWG.dwg
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PLOT SCALE = 1/60,0000' / in.	DATE - 3/19/2024	REVISED -
PLOT DATE = 3/21/2024		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WIRING DIAGRAM - IDOT CONTROLLER "BW"

SCALE: _____ SHEET _ OF _ SHEETS STA. _____ TO STA. _____

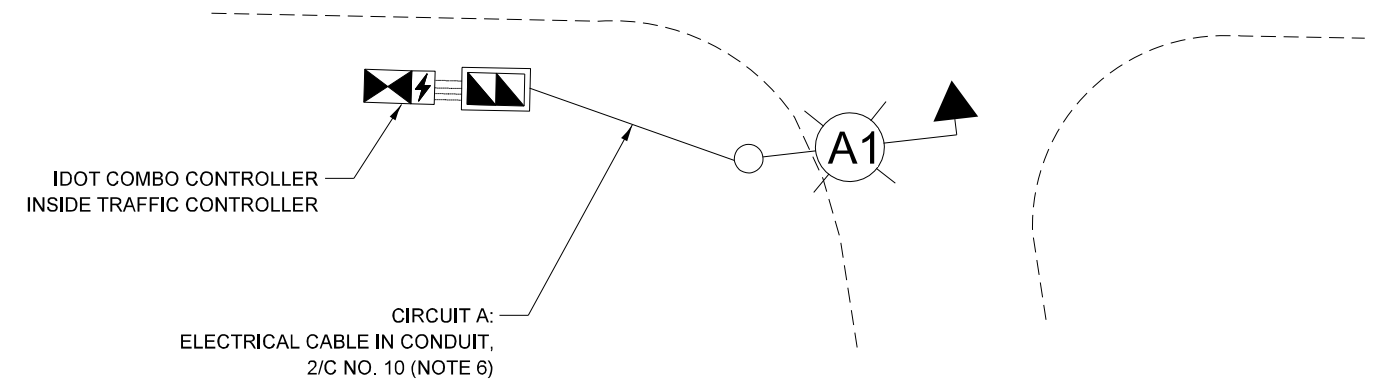
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CONTRACT NO. 62U21				
ILLINOIS FED. AID PROJECT				

LT-04



WOLF ROAD

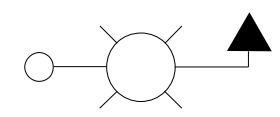
US ROUTE 34 (OGDEN AVE)



NOTES:

1. THE IDOT COMBO LIGHTING CIRCUITING SHALL NOT BE CONNECTED TO THE ROADWAY LIGHTING CIRCUITS.
2. LUMINAIRES ARE POWERED FROM IDOT TRAFFIC CONTROLLER. SEE BE-240.
3. THE COMBO LIGHTING CABLE AND SIGNAL CABLES WILL BE IN SHARED CONDUIT.
4. SEE TRAFFIC PLANS FOR LOCATION OF COMBO POLES, HANDHOLES AND CONDUIT.
5. CIRCUIT DECALS SHALL NOT BE INSTALLED ON COMBO POLES. CIRCUITING DECALS SHOWN ARE FOR GUIDANCE ONLY.
6. ELECTRICAL CABLE SHALL BE ROUTED THROUGH THE TRAFFIC SIGNAL CONDUITS. SEE TRAFFIC SIGNAL PLANS FOR CONDUIT SIZE AND CONDUIT ROUTE.

LEGEND



IDOT COMBINATION LIGHT POLE
 45 FT LUMINAIRE MOUNTING HEIGHT
 8 FT LUMINAIRE ARM
 LUMINAIRE, LED, OUTPUT DESIGNATION H,
 WITH 6 AMP FUSE AND NEUTRAL SLUG

MODEL: 6100611.MXD
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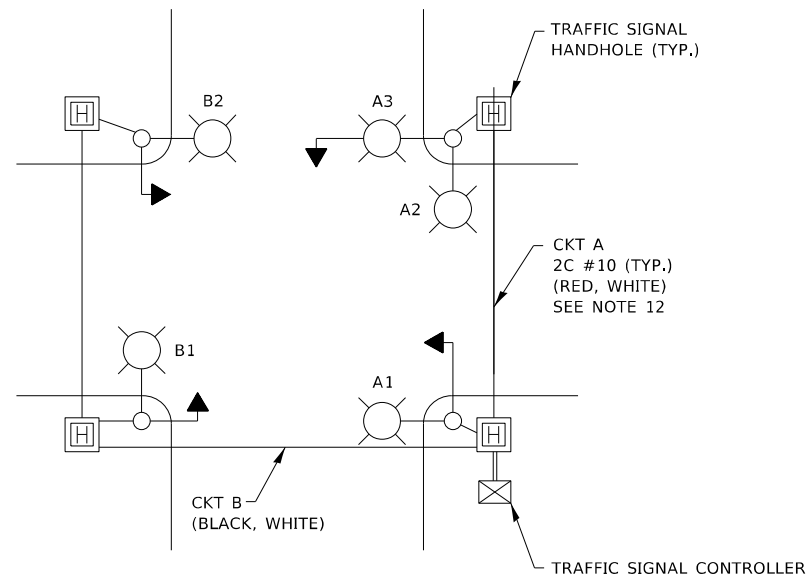
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

US ROUTE 34 (OGDEN AVE) AT WOLF ROAD
 COMBINATION LIGHTING CONTROLLER WIRING DIAGRAM

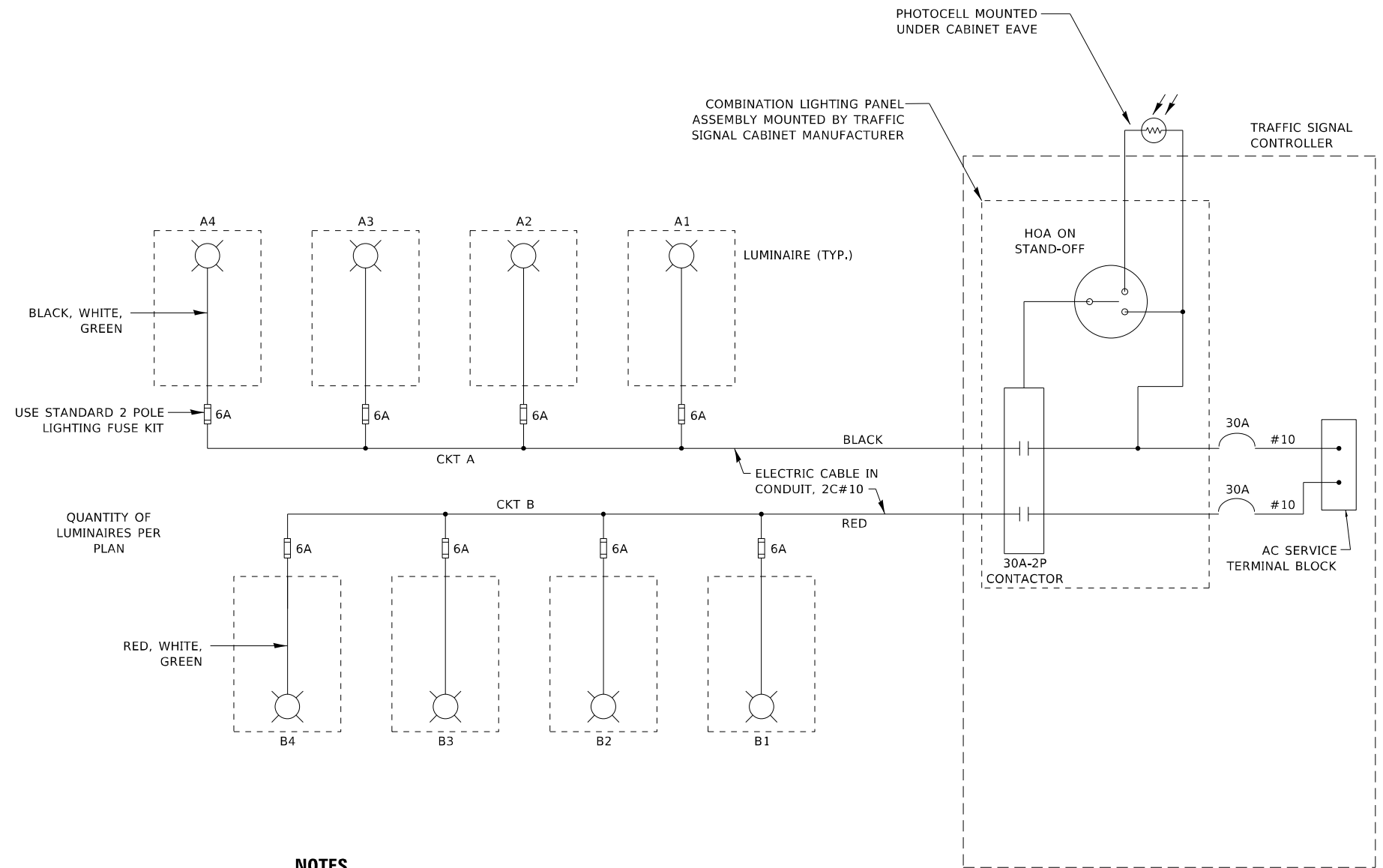
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CONTRACT NO. 62U21				
		ILLINOIS	FED. AID PROJECT	

LT-05

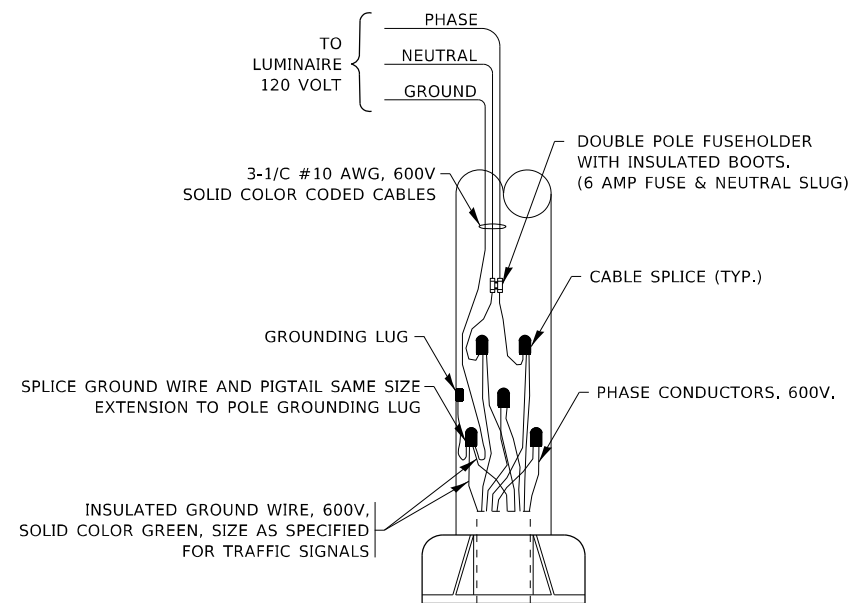


TYPICAL LIGHTING CIRCUIT
(NOT TO SCALE)



NOTES

1. 4 LUMINAIRES PER CIRCUIT, MAXIMUM.
2. TWO #10 (XLP-TYPE USE) CABLES TO BE USED FOR LIGHTING CIRCUITS.
3. ROUTE LIGHTING CIRCUITS IN TRAFFIC SIGNAL CONDUIT SYSTEM.
4. ALL SPLICES AND CONNECTIONS FOR ROADWAY LIGHTING SHALL BE AT POLE BASE ONLY.
5. FOR LIGHTING CIRCUITS, CONNECT TWO CIRCUIT BREAKERS TO AC SERVICE TERMINAL BLOCK.
6. ALL WIRING SHALL BE NEATLY DRESSED, IDENTIFIED BY TAGS, AND SUPPORTED. (UNDERGROUND SPLICING OF LIGHTING CONDUCTORS IS NOT PERMITTED).
7. THE H.O.A. SWITCH SHALL BE LABELED AS "LIGHTING CONTROL" WITH THE POSITIONS "AUTO", "OFF" AND "TEST" WITH ENGRAVED NAME PLATES.
8. LIGHTING CONNECTED TO UPS BYPASS CIRCUIT.
9. COMBINATION LIGHTING MUST BE INSTALLED PRIOR TO SIGNAL TURN ON.
10. LUMINAIRE VOLTAGE SHALL BE 120V
11. POLE WIRING & FUSE KITS ARE INCLUDED IN THE LUMINAIRE PAY ITEM.
12. THE UNDERGROUND EQUIPMENT GROUND WIRE IS SHOWN IN THE TRAFFIC SIGNAL PLANS AND IS INCLUDED IN THE SIGNAL PLANS. IT IS SHARED GROUND BETWEEN SIGNALS AND LIGHTING.



COMBINATION POLE WIRING DETAIL
(NOT TO SCALE)

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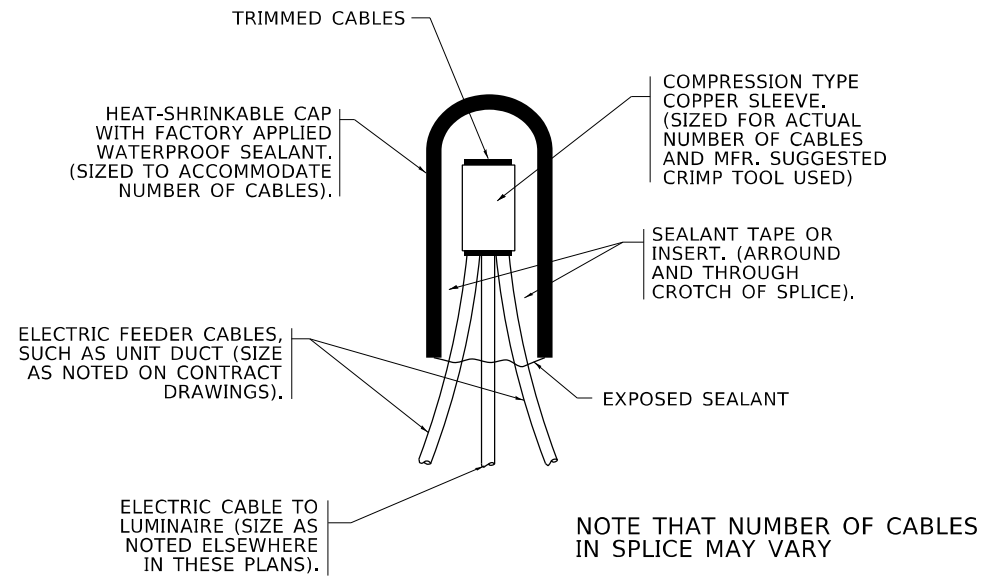
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PLOT DATE = 3/22/2024	DATE - 08/18/2014	REVISED - T.G. 8/03/2021
		REVISED - T.G. 5/05/2022

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

COMBINATION LIGHTING, TRAFFIC SIGNAL SCHEMATIC

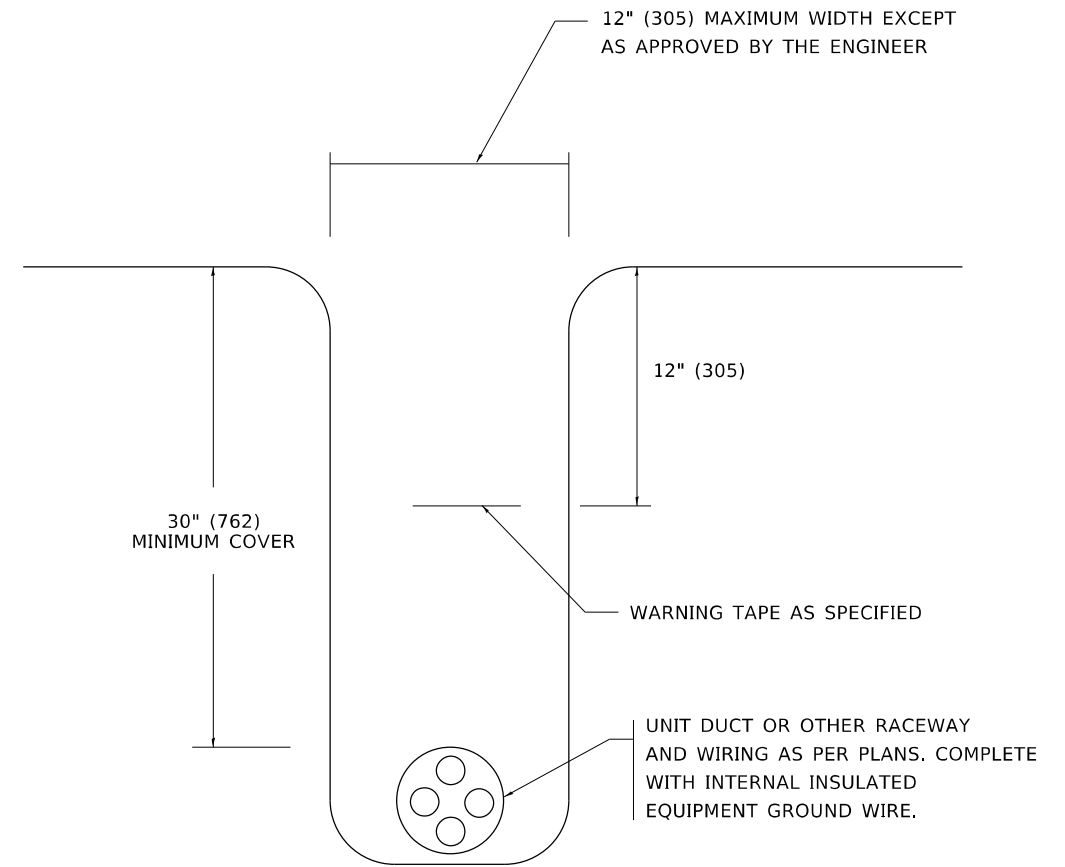
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311	FAP 311 22 TS	COOK	45	36
BE-240			CONTRACT NO. 62U21	
ILLINOIS FED. AID PROJECT				

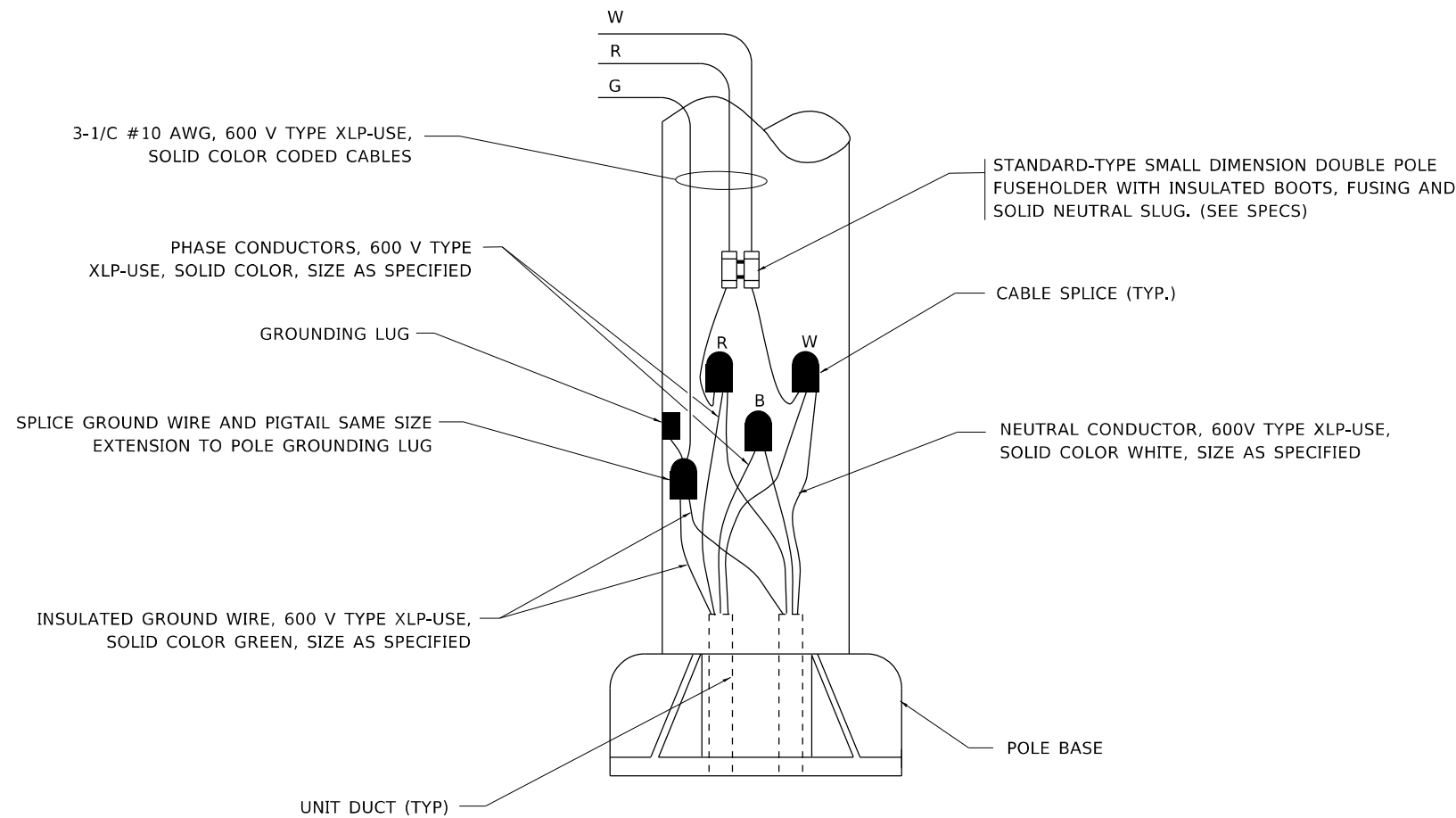


NOTE THAT NUMBER OF CABLES IN SPLICE MAY VARY

TYPICAL SPLICE DETAIL
N.T.S.



TYPICAL WIRING IN TRENCH DETAIL
N.T.S.



POLE WIRING DETAIL
N.T.S.

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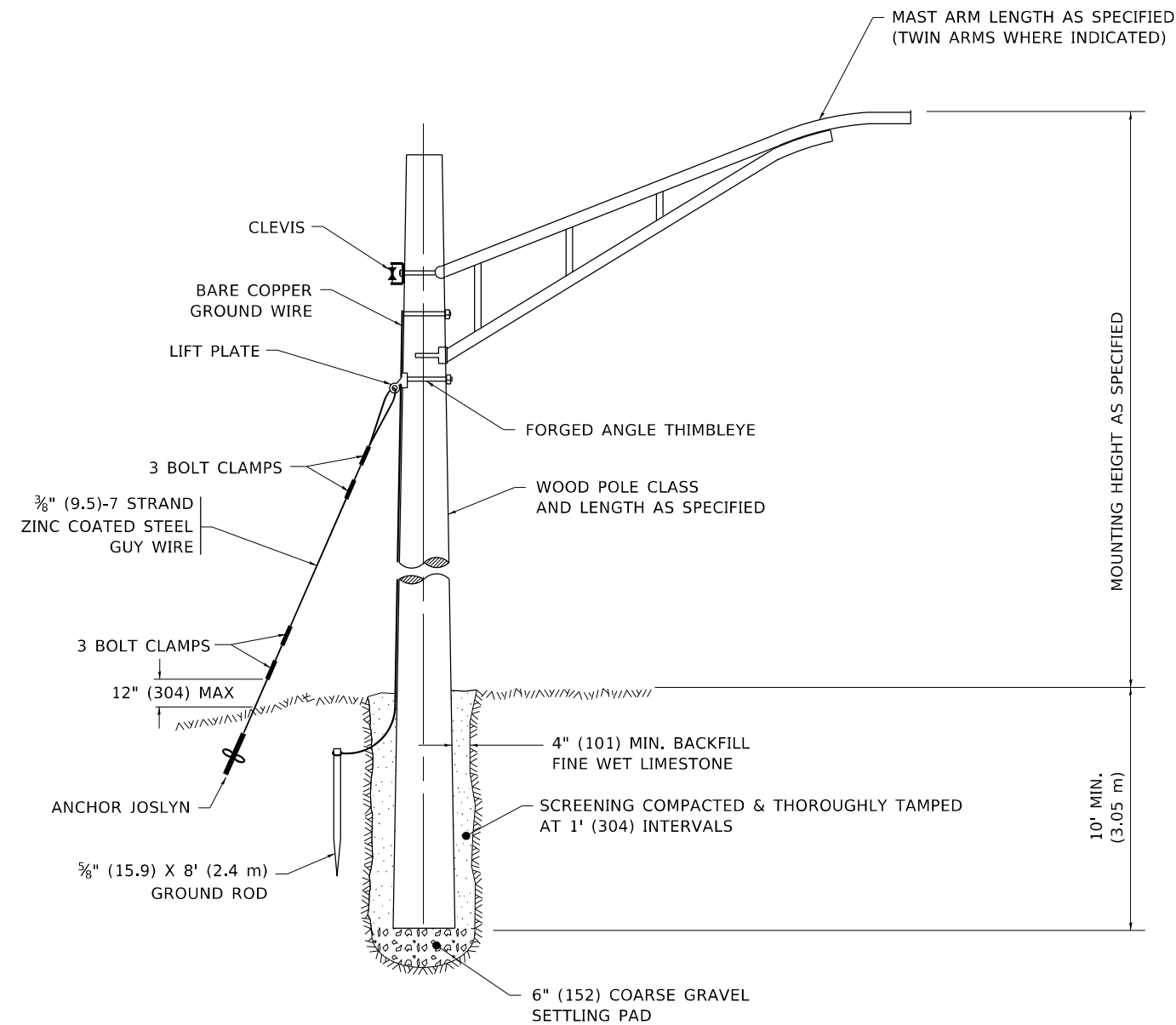
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PLOT DATE = 3/22/2024	DATE - 08/08/2003	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISC. ELECTRICAL DETAILS
SHEET A

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

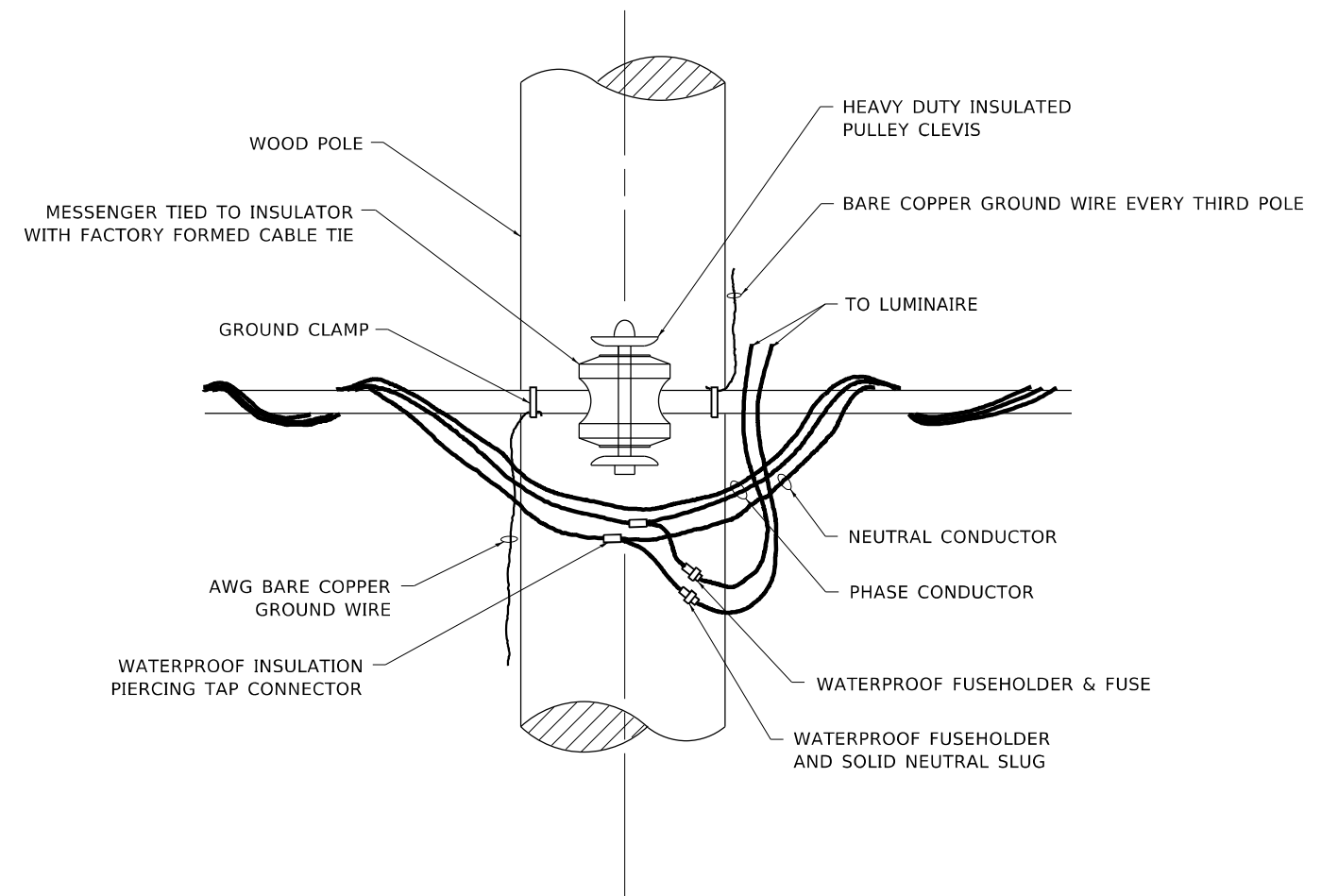
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311	FAP 311 22 TS	COOK	45	38
BE-702		CONTRACT NO. 62U21		
ILLINOIS FED. AID PROJECT				



TEMPORARY LIGHT POLE DETAIL

NOTE:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
2. MAST ARM SHALL BE RATED FOR THE SPECIFIED MOUNTING HEIGHT.



TEMPORARY LIGHT POLE ATTACHMENT DETAIL

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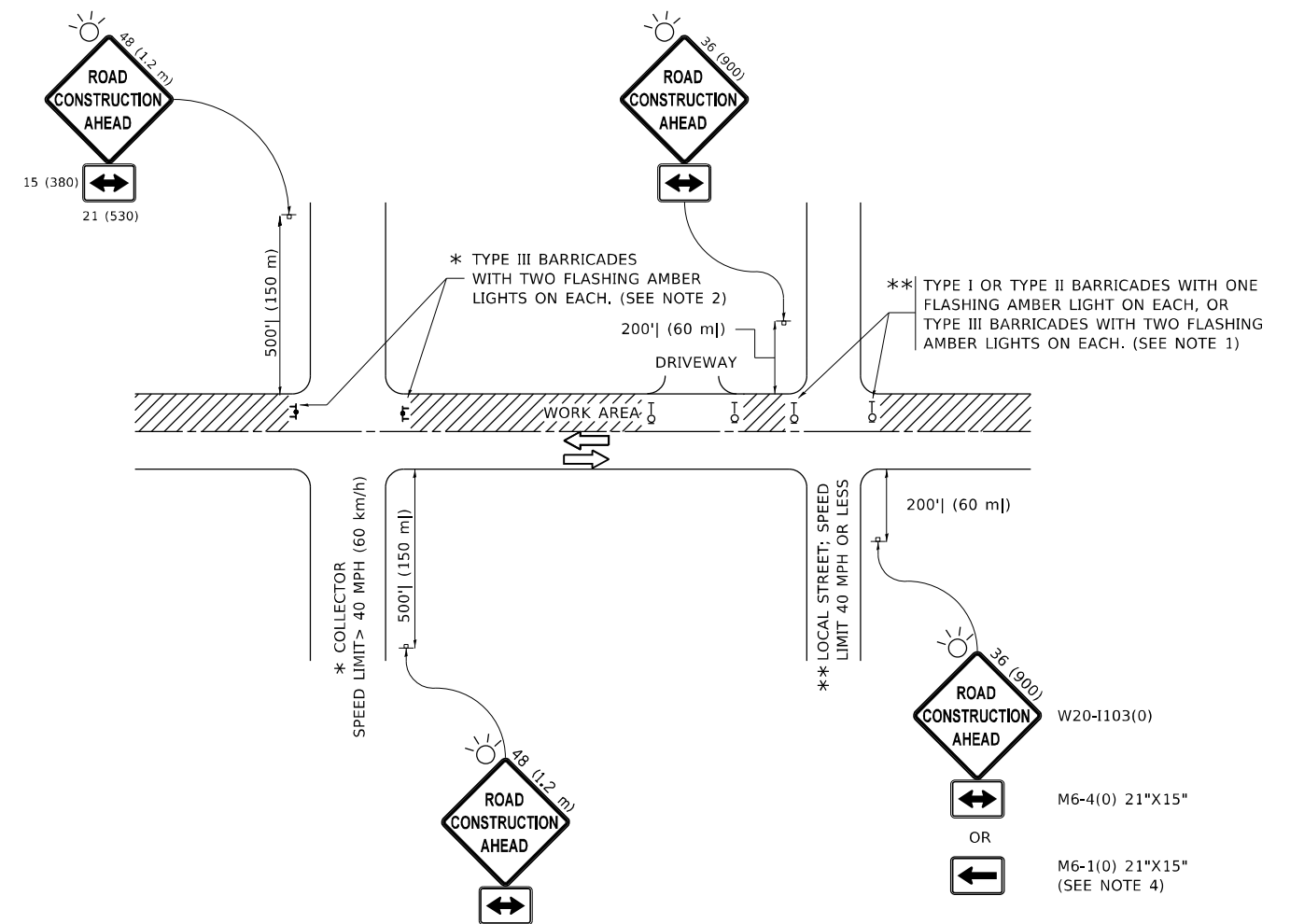
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PLOT DATE = 3/22/2024	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TEMPORARY LIGHT POLE DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 311 22 TS	COOK	45	39
BE-800		CONTRACT NO. 62U21		
ILLINOIS FED. AID PROJECT				



NOTES:

- 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:
 - 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.
 - 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.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - 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.
 - 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.
- 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.
- SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- 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.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

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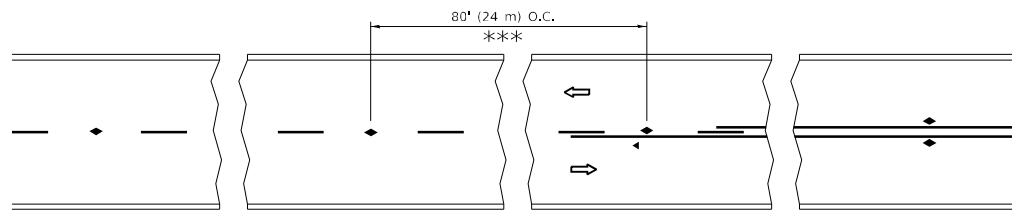
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PLOT DATE = 3/22/2024	DATE - 06-89	REVISED - A. SCHUETZE 07-01-13
		REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

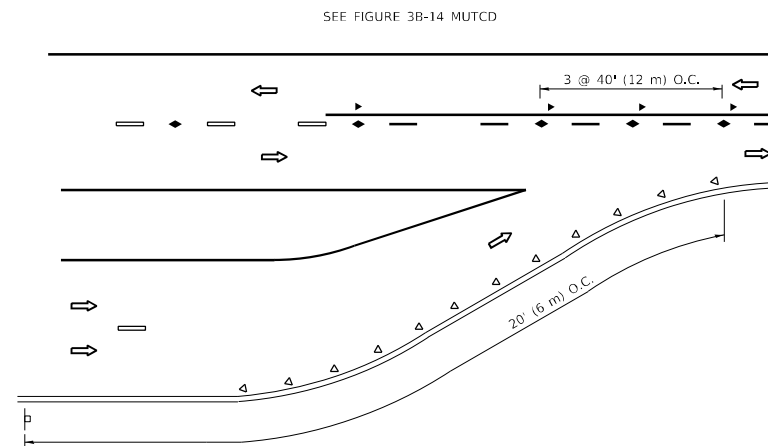
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-10			CONTRACT NO. 62U21	
ILLINOIS FED. AID PROJECT				

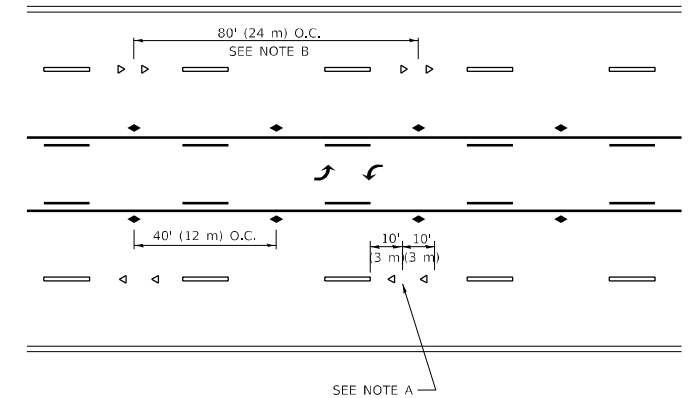


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

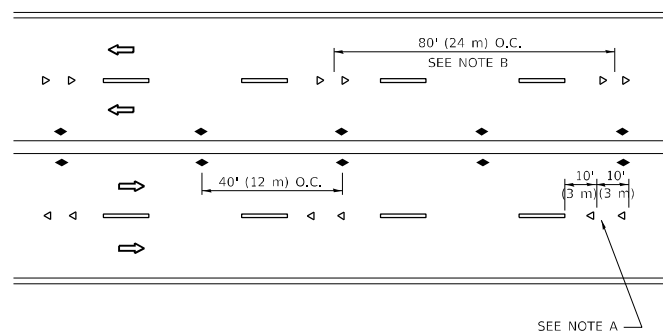
TWO-LANE/TWO-WAY



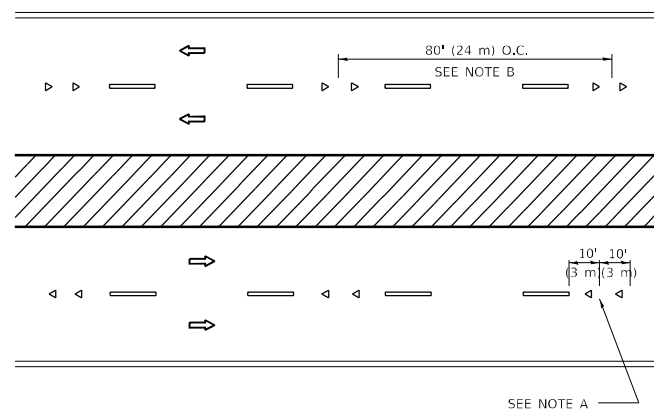
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

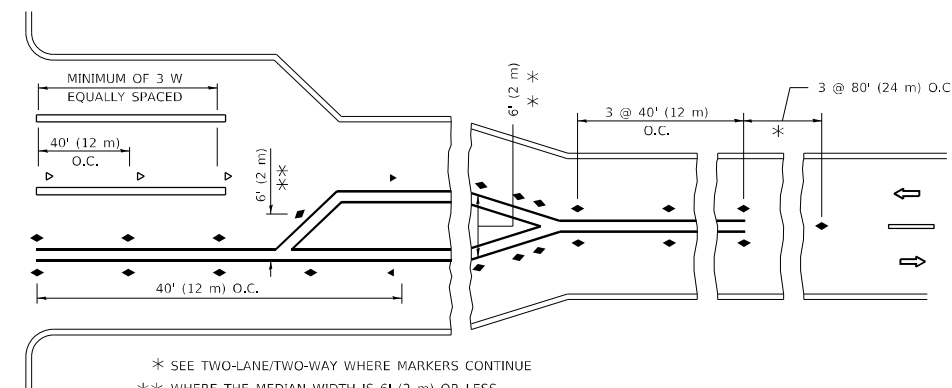
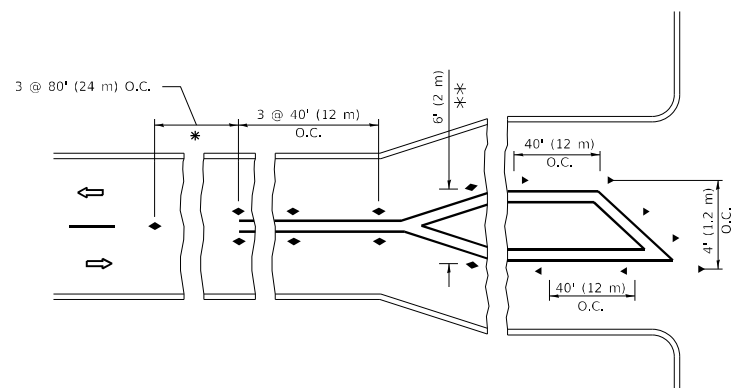
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

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

DESIGN NOTES

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



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

TURN LANES

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

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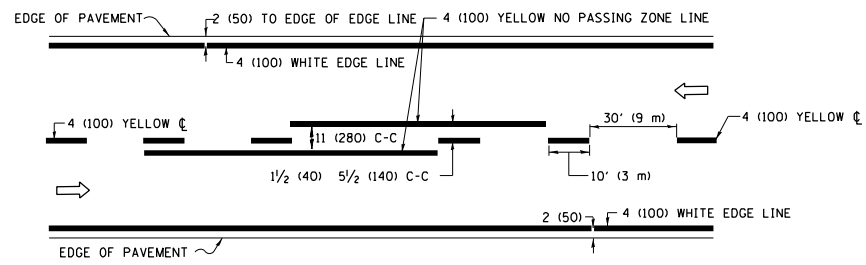
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PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED - C. JUCIUS 09-09-09
PLOT DATE = 3/22/2024	DATE -	REVISED - C. JUCIUS 07-01-13

**STATE OF ILLINOIS
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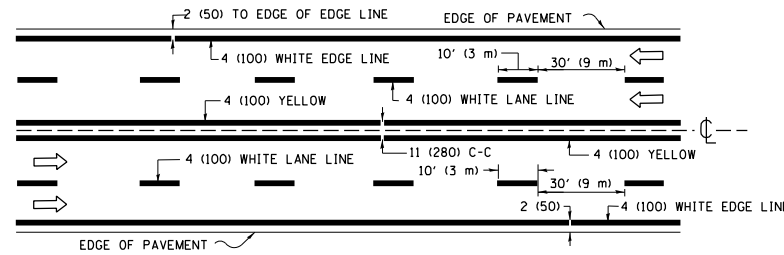
**TYPICAL APPLICATIONS
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)**

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

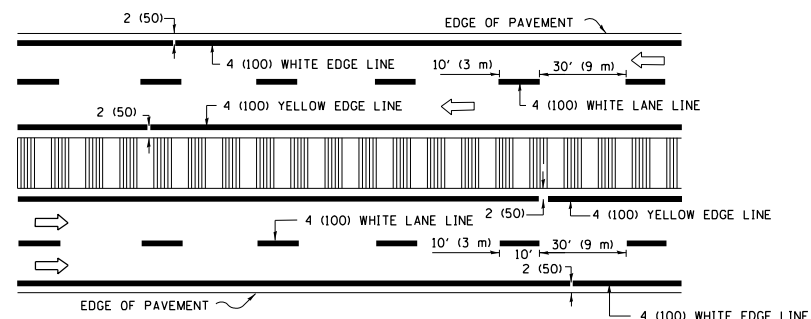
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 311 22 TS	COOK	45	41
TC-11			CONTRACT NO. 62U21	
ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

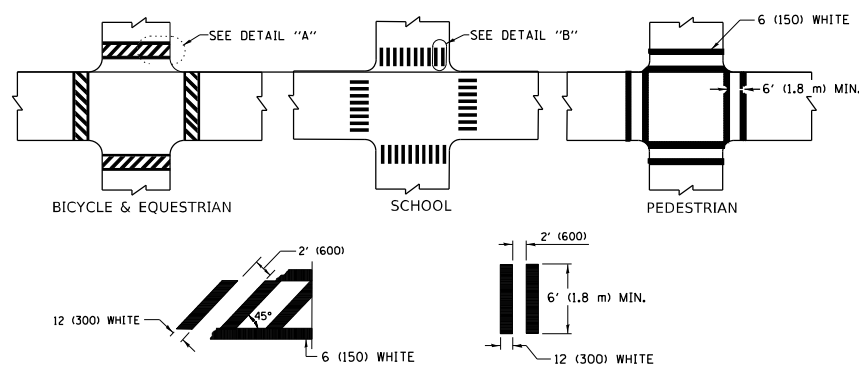


MULTI-LANE UNDIVIDED



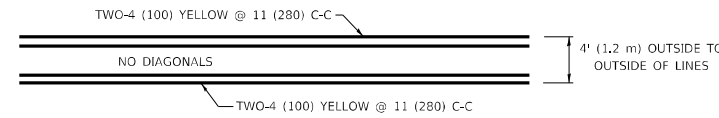
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

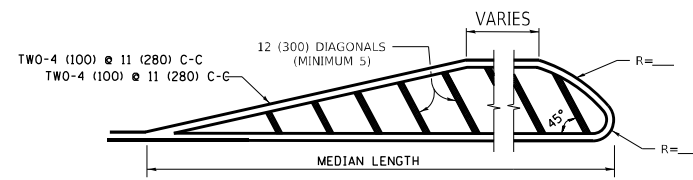


TYPICAL CROSSWALK MARKING

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



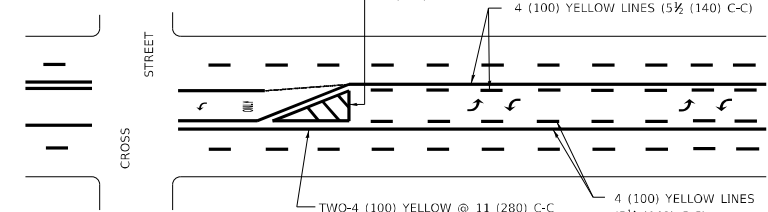
4' (1.2 m) WIDE MEDIANS ONLY



MEDIANS OVER 4' (1.2 m) WIDE

FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

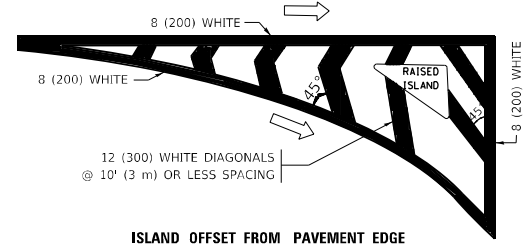
A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.

FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

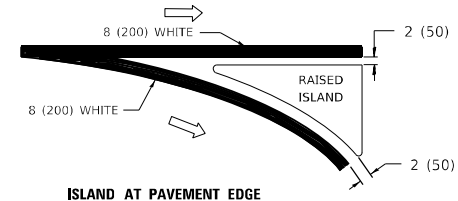
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

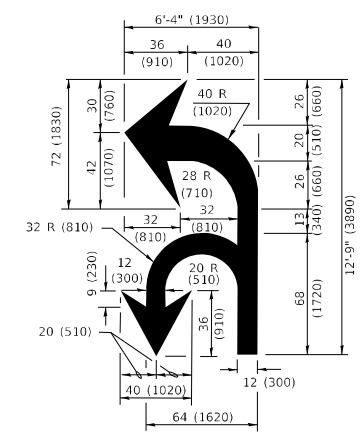


ISLAND OFFSET FROM PAVEMENT EDGE

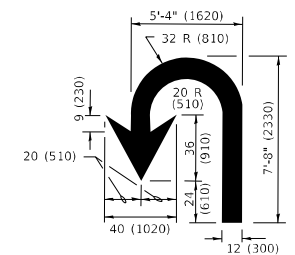


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

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

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

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (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; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES: "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C 30 MPH (50 km/h) TO 45MPH (70 km/h) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

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

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DRAWN -	REVISED - C. JUCIUS 07-01-13	REVISED - C. JUCIUS 07-01-13
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED - C. JUCIUS 12-21-15
PLOT DATE = 3/22/2024	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
TYPICAL PAVEMENT MARKINGS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 311 22 TS	COOK	45	42
TC-13		CONTRACT NO.	62U21	
		ILLINOIS	FED. AID PROJECT	

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

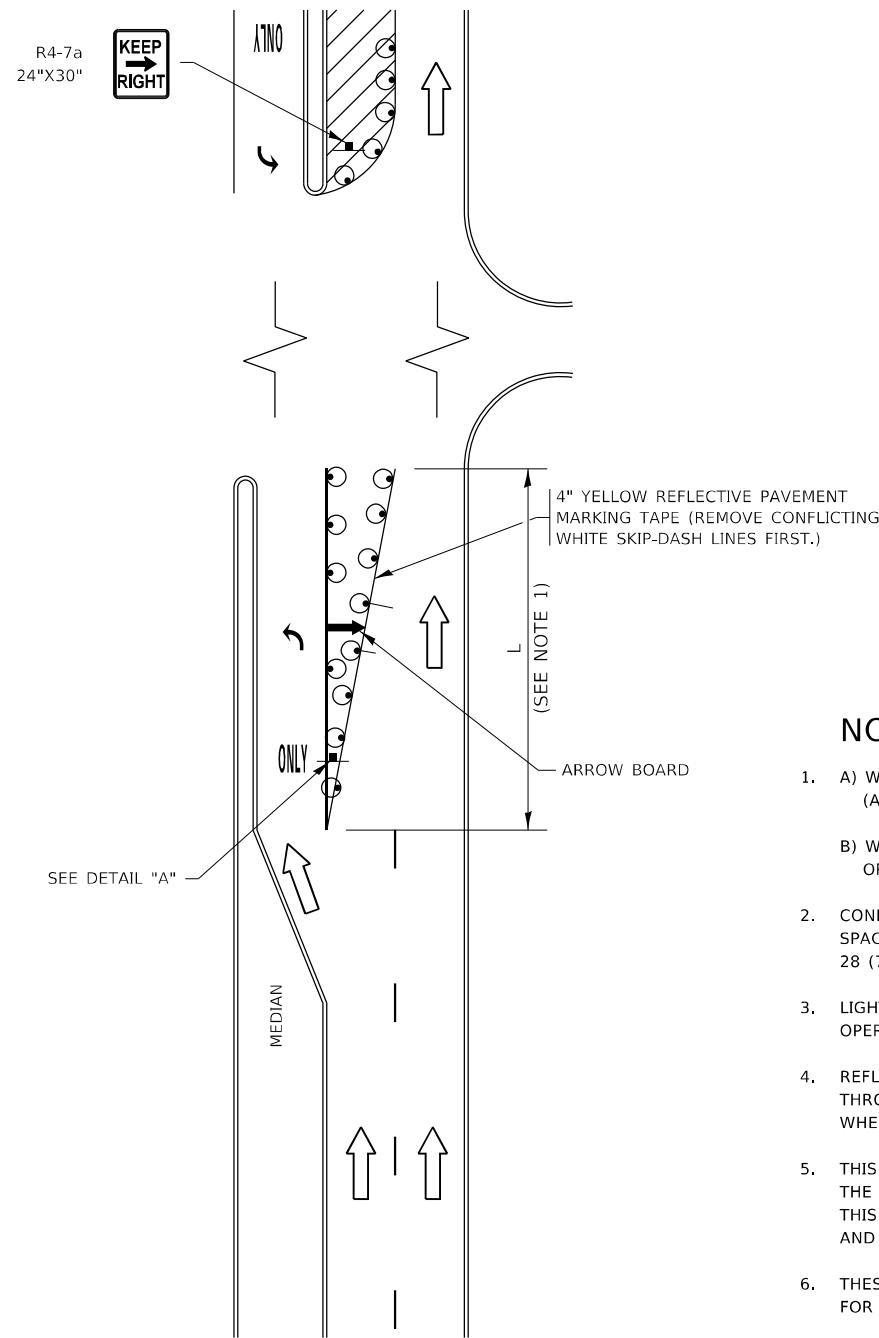


FIGURE 1

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

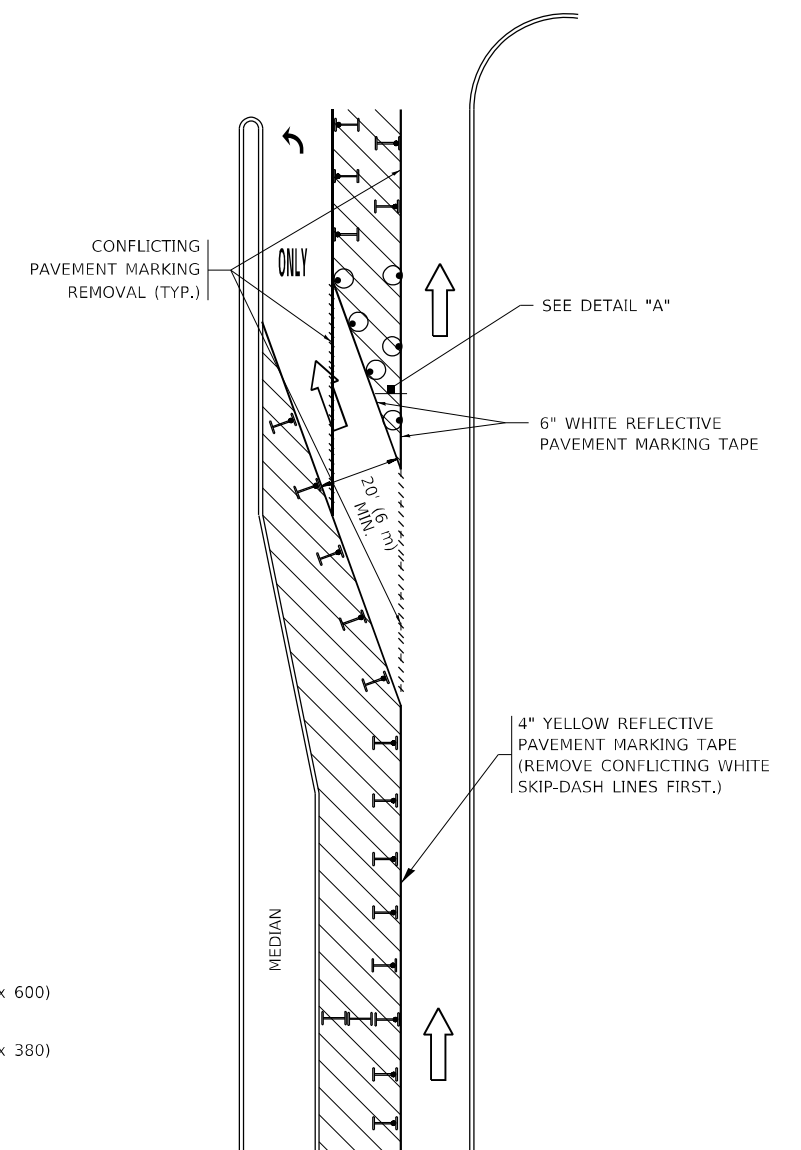
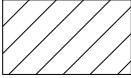
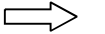







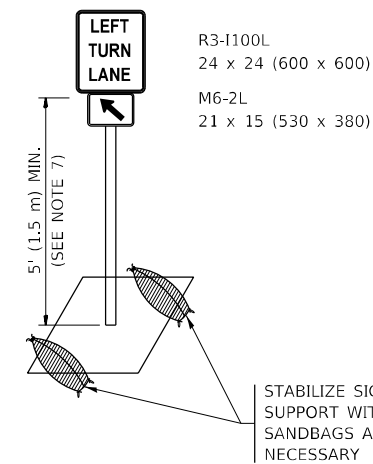
FIGURE 2

LEGEND

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

NOTES:

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



DETAIL A

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

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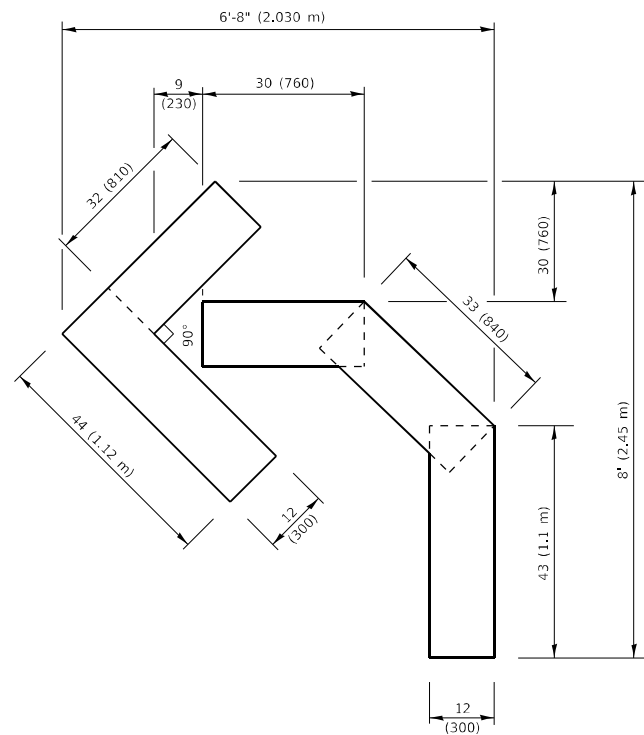
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	DRAWN - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13
PLOT SCALE = 100,0000' / in.	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16
PLOT DATE = 3/22/2024	DATE - T. RAMMACHER 01-06-00	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

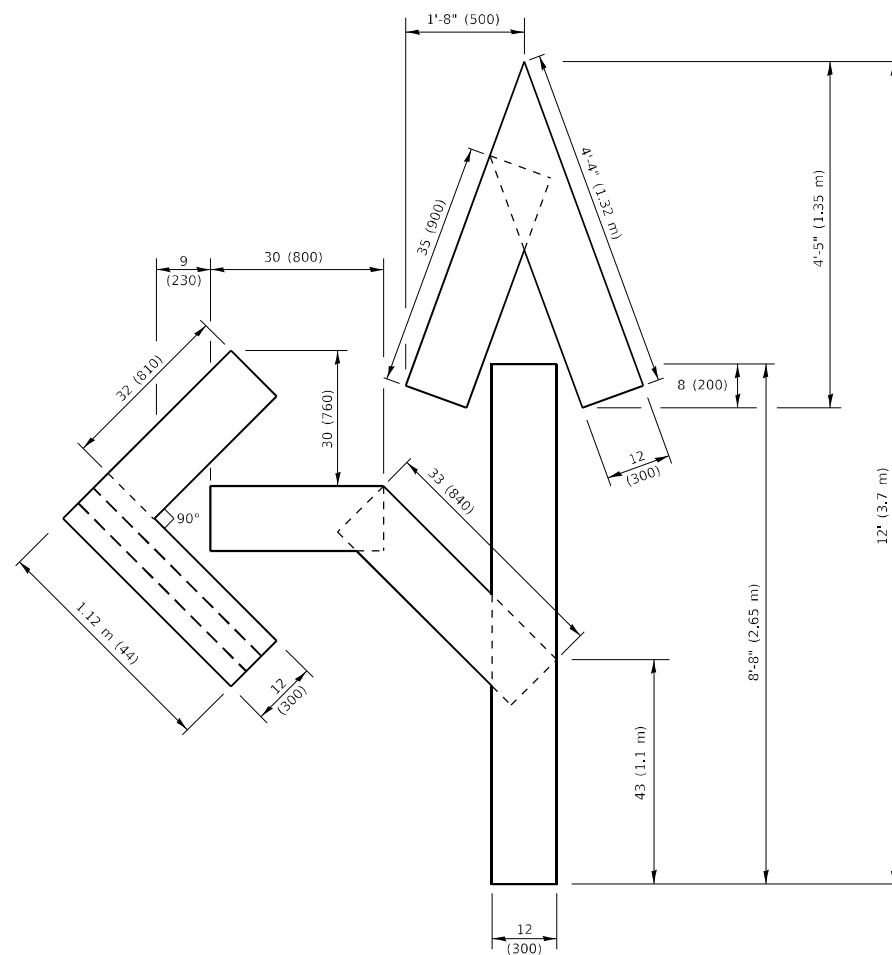
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-14		CONTRACT NO. 62U21		
ILLINOIS FED. AID PROJECT				



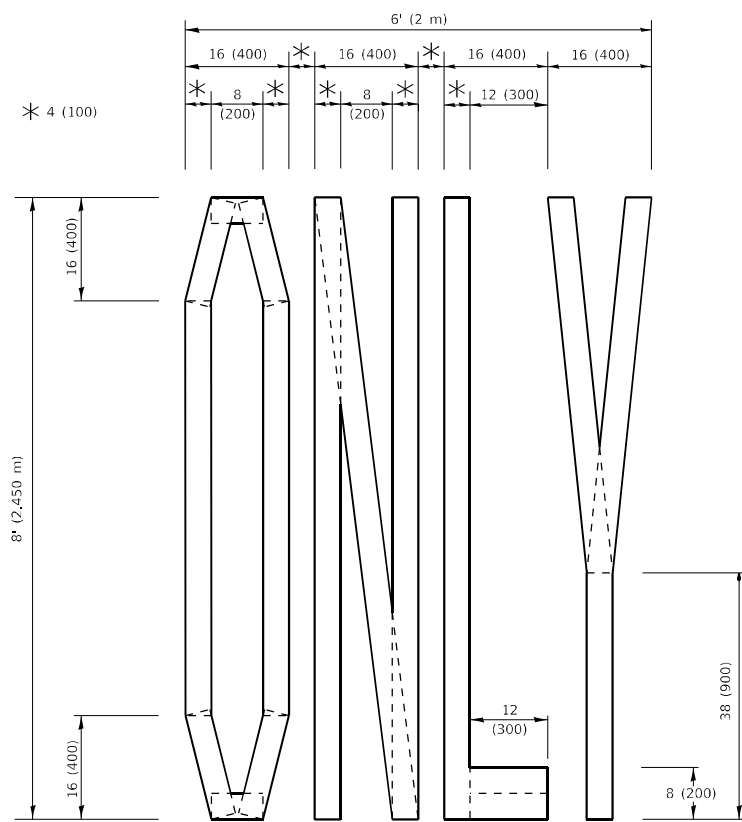
QUANTITY

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



QUANTITY

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

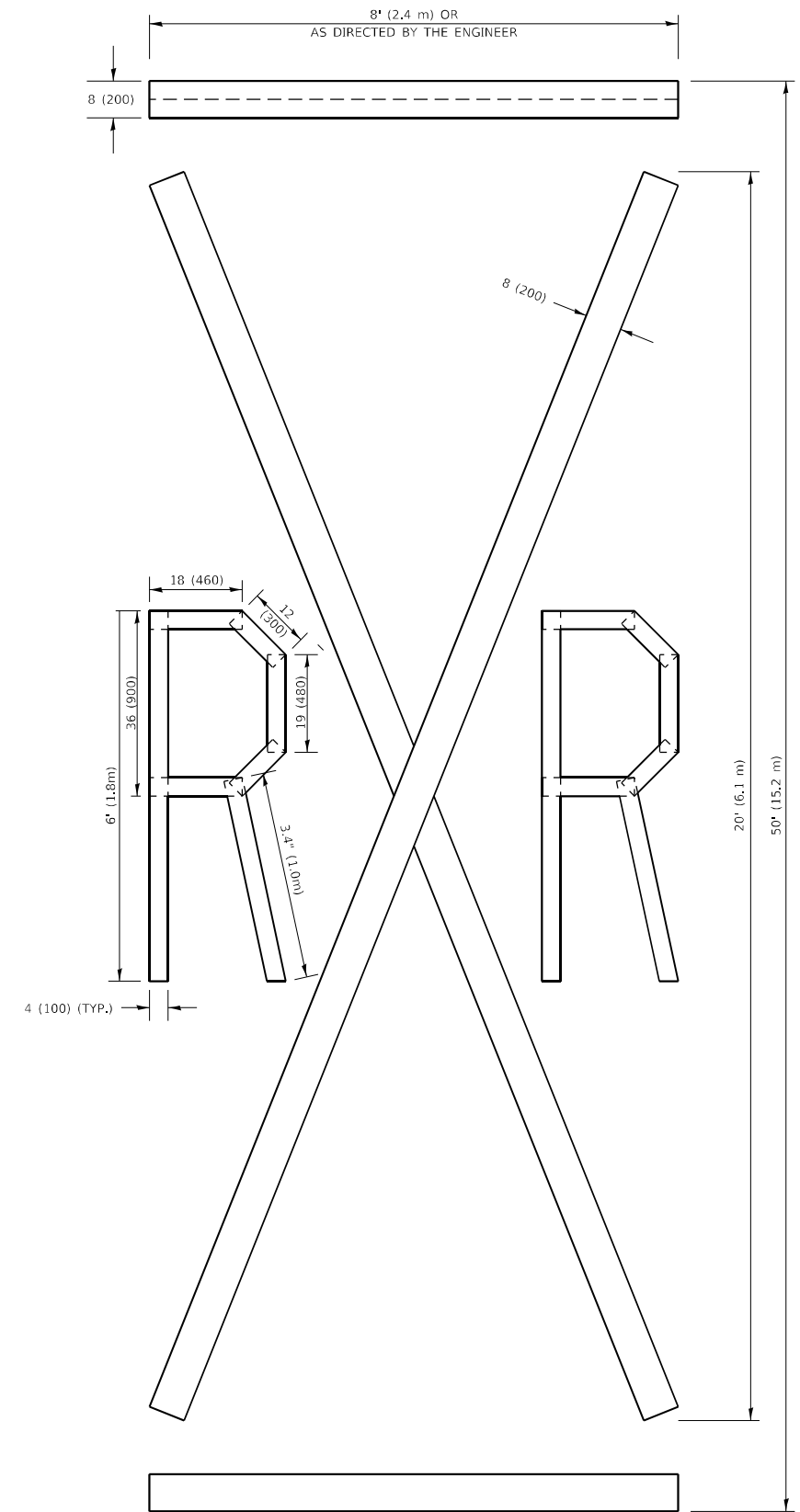


QUANTITY

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

NOTE:

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



QUANTITY

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

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

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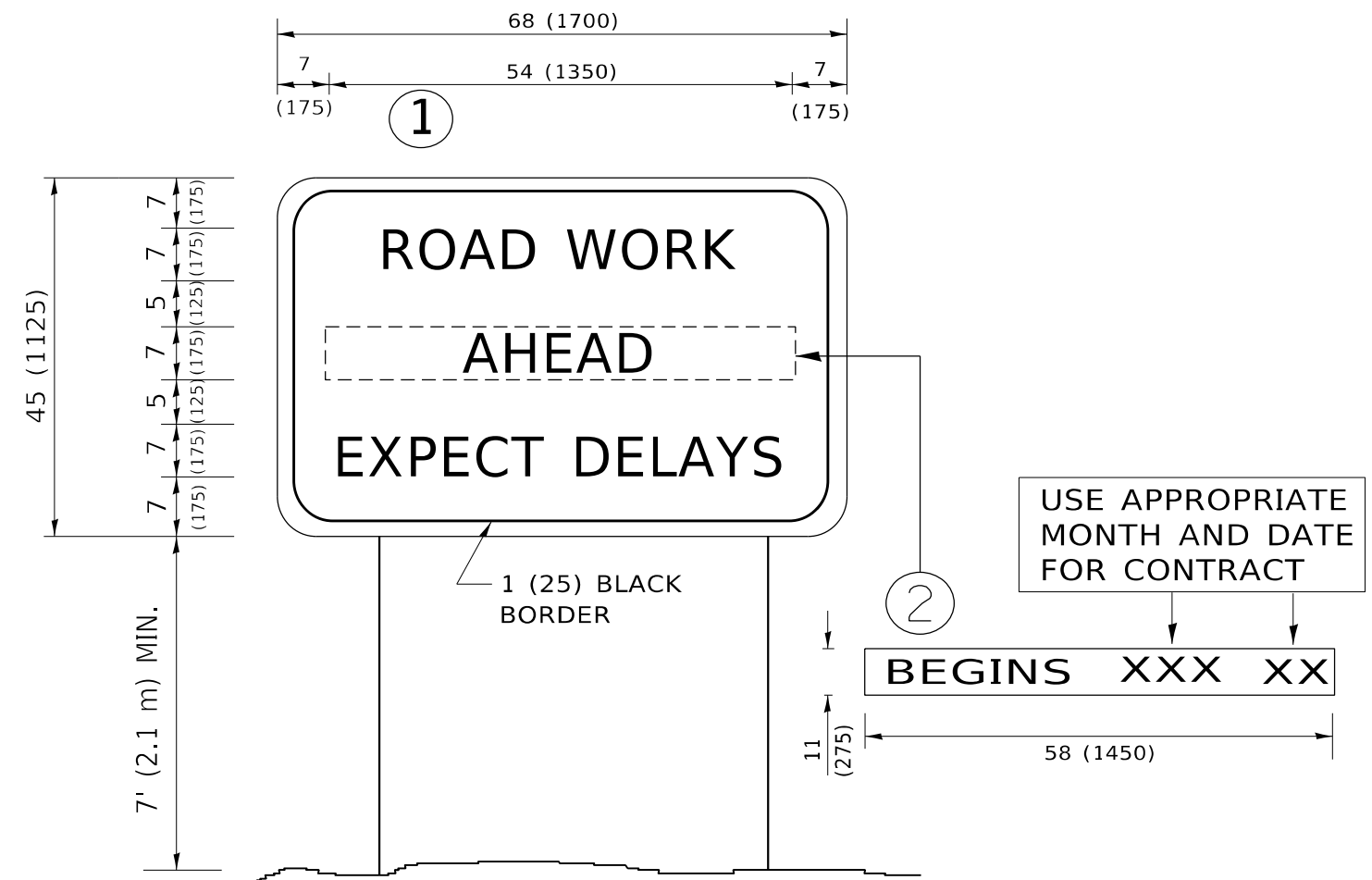
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	DRAWN -	REVISED - E. GOMEZ 08-28-00
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PLOT DATE = 3/22/2024	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 311 22 TS	COOK	45	44
TC-16		CONTRACT NO. 62U21		
ILLINOIS FED. AID PROJECT				



NOTES:

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

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

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PLOT SCALE = 100,0000 ' / in.	DRAWN -	REVISED - R. MIRS 12-11-97
PLOT DATE = 3/22/2024	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 311 22 TS	COOK	45	45
TC-22			CONTRACT NO. 62U21	
ILLINOIS FED. AID PROJECT				