

F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1518	20-00288-04-TL	DuPAGE	32	1
		ILLINOIS	CONTRACT NO. 61H61	

03/11/2022 Letting Item 100

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED PLANS FOR FEDERAL AID HIGHWAY

F.A.U. ROUTE 1518 (63RD STREET)
63RD STREET AT MAIN STREET
TRAFFIC SIGNAL MODERNIZATION
SECTION 20-00288-04-TL
PROJECT No: 0331(180)
DUPAGE COUNTY
C-91-347-20

FOR INDEX OF SHEETS SEE SHEET 2

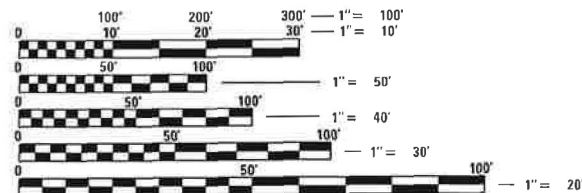
PROJECT IS LOCATED IN THE
VILLAGE OF DOWNERS GROVE

63RD STREET

DESIGN DESIGNATION: MINOR ARTERIAL
ADT: 18,900 (2020)
POSTED SPEED: 40 MPH
DESIGN SPEED: 40 MPH

MAIN STREET

DESIGN DESIGNATION: MINOR ARTERIAL
ADT: 13,800 (2020)
POSTED SPEED: 35 MPH
DESIGN SPEED: 35 MPH



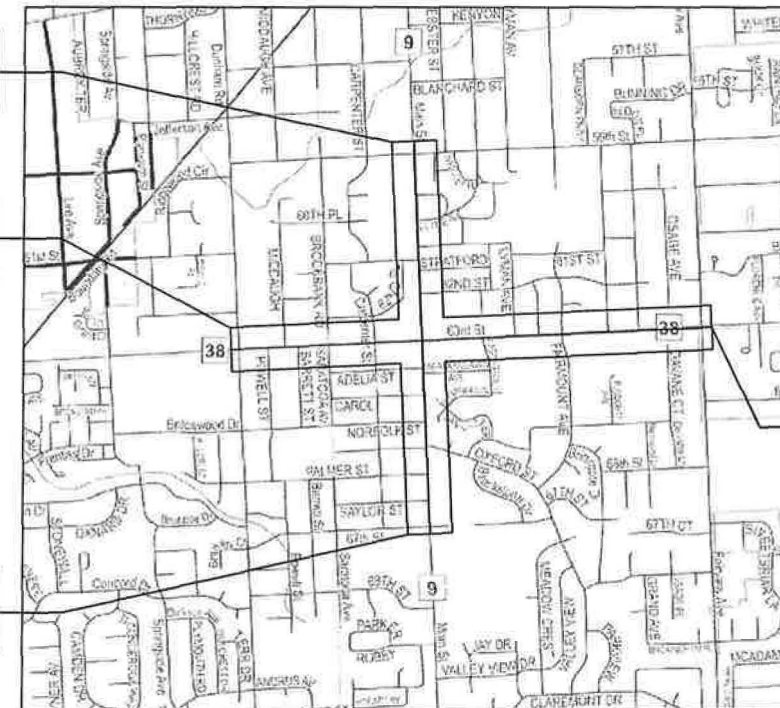
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENDS
59TH ST. & MAIN ST.

PROJECT BEGINS
63RD ST. & DUNHAM RD.

PROJECT BEGINS
67TH ST. & MAIN ST.



PROJECT ENDS
63RD ST. & FAIRVIEW AVE.

LOCATION MAP
NOT TO SCALE

GROSS LENGTH OF 63RD STREET = 6,547.2 FT = 1.24 MILE
GROSS LENGTH OF MAIN STREET = 5,332.8 FT = 1.01 MILE
NET LENGTH OF PROJECT = 11,880.0 FT = 2.25 MILE



Date 11/29/21
BRUCE TALBOT
ILLINOIS LICENSED PROFESSIONAL ENGINEER
NO. 062-046494
EXPIRATION 11/30/2023

Farnsworth
GROUP
1011 WARRENVILLE ROAD, SUITE 375
LISLE, ILLINOIS 60532
(630) 290-5877 / info@f-w.com



LOCATION OF SECTION INDICATED THUS: -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

Approved December 28, 2021
Christopher Snyder
DuPAGE COUNTY DIVISION OF TRANSPORTATION, COUNTY ENGINEER

Passed January 4, 2022
C.F. Riddle
DISTRICT ONE ENGINEER OF LOCAL ROADS AND STREETS

Releasing for Bid
Based on Limited
Review January 5, 2022
Jose Rios
REGIONAL ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

CONTRACT NO. 61H61

FEDERAL AID PROGRAM ENGINEER: CARMEN E. RAMOS, P.E. SCHAUMBURG, IL

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES, AND COMMITMENTS
- 3-7 SUMMARY OF QUANTITIES
- 8-14 TRAFFIC SIGNAL MODERNIZATION PLANS
- 15-19 INTERCONNECT PLANS
- 20 ILLUMINATED STREET NAME SIGN DETAILS
- 21-32 DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS

HIGHWAY STANDARDS

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 701101-05 OFF-RD OPERATIONS, MULTILANE, 15' (4.5 M) TO 24' (600 MM) FROM PAVEMENT EDGE
- 701106-02 OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 M) AWAY
- 701701-10 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701801-06 SIDEWALK, CORNER OR CROSSWALK CLOSURE
- 701901-08 TRAFFIC CONTROL DEVICES
- 814001-03 HANDHOLES
- 814006-03 DOUBLE HANDHOLES
- 857001-01 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
- 862001-01 UNINTERRUPTIBLE POWER SUPPLY (UPS)
- 873001-02 TRAFFIC SIGNAL GROUNDING & BONDING
- 877011-10 STEEL COMB. MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
- 878001-11 CONCRETE FOUNDATION DETAILS
- 880006-01 TRAFFIC SIGNAL MOUNTING DETAILS

DISTRICT 1 STANDARDS

- TC-10 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
- TC-13 DISTRICT ONE, TYPICAL PAVEMENT MARKINGS
- TS-02 MAST ARM MOUNTED STREET NAME SIGNS
- TS-03 HANDHOLE TO INTERCEPT EXISTING CONDUIT
- TS-05 STANDARD TRAFFIC SIGNAL DESIGN DETAILS

GENERAL NOTES

1. THE REMOVAL AND REPLACEMENT OF SIDEWALK, DRIVEWAY, MEDIAN AND ISLAND SURFACE PAVING AT HANDHOLES, JACKING PITS AND INSPECTION OPENINGS SHALL BE SAW CUT AROUND THE AREA TO BE REMOVED.
2. THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS OF THE TRAFFIC SIGNAL SYSTEM. FOR LOCATION OF UTILITIES, CALL J.U.L.I.E. TOLL FREE NUMBER 1-800-892-0123.
3. ALL SIGNAL POSTS AND MAST ARM POLES SHALL BE LOCATED WITH THEIR CENTERLINES A MINIMUM OF FOUR (4) FEET AND SIX (6) FEET RESPECTIVELY FROM THE BACK OF CURB UNLESS NOTED OR DIMENSIONED TO THE CONTRARY ON THE DRAWINGS. IN NON-CURBED AREAS THE MAST ARM POLE SHALL BE LOCATED A MINIMUM OF TEN (10) FEET BEHIND THE EDGE OF PAVEMENT OR TWO (2) FEET BEHIND THE EDGE OF SHOULDER, WHICHEVER DISTANCE IS GREATER. SIGNAL POSTS SHALL BE PLACED AT A MINIMUM OF TWO (2) FEET BEHIND THE EDGE OF SHOULDER.
4. CONTACT THE DUPAGE COUNTY TRAFFIC SIGNAL COORDINATOR (630/407-6900) TO APPROVE LOCATIONS OF LOOPS, SIGNAL FOUNDATIONS AND SIGNAL HEADS.
5. ALL LUMINAIRE ARMS SHALL BE 15 FEET LONG UNLESS OTHERWISE NOTED.
6. ALL LUMINAIRES SHALL BE MOUNTED AT 40 FOOT HEIGHT UNLESS OTHERWISE NOTED.
7. NO WORK SHALL COMMENCE UNTIL TRAFFIC CONTROL REQUIREMENTS ARE MET.
8. ALL UTILITIES, SCHOOL DISTRICTS, LOCAL POLICE, AND FIRE DEPARTMENTS SHALL BE NOTIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
9. UNLESS AUTHORIZED BY THE ENGINEER, ALL EXISTING ACCESS POINTS SHALL BE MAINTAINED AT ALL TIMES BY THE CONTRACTOR.
10. TRAFFIC CONTROL AND PROTECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE TRAFFIC CONTROL PLAN, TRAFFIC SIGNAL PLANS, THESE NOTES, APPLICABLE SPECIAL PROVISIONS, AND SECTION 701 OF THE STANDARD SPECIFICATIONS AS AMENDED BY THE SPECIAL PROVISION FOR WORK ZONE TRAFFIC CONTROL (CHECK SHEET LRS 3).
11. ARROW BOARDS WILL BE REQUIRED WHEN IMPLEMENTING ALL LANE CLOSURES.

COMMITMENTS

NONE

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		DRAWN	NDJ	REVISED	-
PLOT SCALE	2.0000' / in.	CHECKED	RMM	REVISED	-
PLOT DATE	11/29/2021	DATE	11/29/21	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL
NOTES, AND COMMITMENTS**

SCALE: **N.T.S.** SHEET **1** OF **1** SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1518	20-00288-04-TL	DUPAGE	32	2
CONTRACT NO. 61H61				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES				CONSTR. CODE	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0021 90% FED 10% LOCAL URBAN	0042 90% FED 10% LOCAL URBAN
* *	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	136	136
* *	44000600	SIDEWALK REMOVAL	SQ FT	151	151
* *	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	35	35
* *	66900530	SOIL DISPOSAL ANALYSIS	EACH	4	4
* *	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	1
* *	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	1
* *	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	8	8
	67100100	MOBILIZATION	LSUM	1	1
	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	1	1
	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	1	1
	70106800	CHANGEABLE MESSAGE SIGN	CAL MO	8	8
* *	72000100	SIGN PANEL - TYPE 1	SQ FT	60	60
* *	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	336	336
*	80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	1	1
	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	195	195

* * SPECIALTY ITEM
* SPECIAL PROVISION

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PLOT DATE = 12/29/2021	CHECKED RMM	REVISED -
	DATE 11/29/21	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES	
SCALE:	SHEET 1 OF 5 SHEETS STA. TO STA.

F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1518	20-00288-04-TL	DUPAGE	32	3
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H61	

SUMMARY OF QUANTITIES				CONSTR. CODE	
				0021	0042
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	90% FED 10% LOCAL URBAN	90% FED 10% LOCAL URBAN
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	54	54	
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	40	40	
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	456	456	
* 81400100	HANDHOLE	EACH	2	2	
81400300	DOUBLE HANDHOLE	EACH	3	3	
* 81702450	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 10	FOOT	821	821	
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	4	4	
* 87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	12800	12800	
* 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1317	1317	
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2191	2191	
* 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3215	3215	
* 87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	110	110	
* 87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	837	837	
* 87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1	1	
* 87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4	4	

* * SPECIALTY ITEM
* SPECIAL PROVISION

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PLOT DATE = 12/20/2021	CHECKED RMM	REVISED -
	DATE 11/29/21	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES	
SCALE:	SHEET 2 OF 5 SHEETS STA. TO STA.

F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1518	20-00288-04-TL	DUPAGE	32	4
CONTRACT NO. 61H61				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES				CONSTR. CODE	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0021	0042
				90% FED 10% LOCAL URBAN	90% FED 10% LOCAL URBAN
* 87702910	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.	EACH	1	1	
* 87702950	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT.	EACH	2	2	
* 87702960	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT.	EACH	1	1	
* 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	20	20	
* 87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4	4	
* 87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	60	60	
87900200	DRILL EXISTING HANDHOLE	EACH	2	2	
* 88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4	4	
* 88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	12	12	
* 88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	8	8	
88200510	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	12	12	
88700200	LIGHT DETECTOR	EACH	4	4	
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1	1	
* 89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1	1	
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	12500	12500	

* * SPECIALTY ITEM
* SPECIAL PROVISION

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	DATE 11/29/21	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES	
SCALE:	SHEET 3 OF 5 SHEETS STA. TO STA.

F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1518	20-00288-04-TL	DUPAGE	32	5
CONTRACT NO. 61H61				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES				CONSTR. CODE	
				0021	0042
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	90% FED 10% LOCAL URBAN	90% FED 10% LOCAL URBAN
* 89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1	1	
89502380	REMOVE EXISTING HANDHOLE	EACH	2	2	
89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1	1	
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	6	6	
* X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	860	860	
* X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	12500	12500	
* X0327211	RELOCATE SWITCH	EACH	1	1	
* X0327698	LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4	4	
* X1400102	OUTDOOR RATED NETWORK CABLE	FOOT	139	139	
* X1400238	LUMINAIRE, LED, SPECIAL	EACH	4	4	
* X1400322	RELOCATE EXISTING REMOTE-CONTROLLED VIDEO SYSTEM	EACH	2	2	
* X1400378	PEDESTRIAN SIGNAL POST, 5 FT.	EACH	1	1	
* X1400424	ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE SOOW	FOOT	805	805	
X8100105	CONDUIT SPLICE	EACH	1	1	
* X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1	1	

* * SPECIALTY ITEM
* SPECIAL PROVISION

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	DATE 11/29/21	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES	
SCALE:	SHEET 4 OF 5 SHEETS STA. TO STA.

F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1518	20-00288-04-TL	DUPAGE	32	6
CONTRACT NO. 61H61				
ILLINOIS FED. AID PROJECT				

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SUMMARY OF QUANTITIES				CONSTR. CODE	
				0021	0042
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	90% FED 10% LOCAL URBAN	90% FED 10% LOCAL URBAN
* X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1	1	
* X8710030	FIBER OPTIC CABLE 48 FIBERS, SINGLE MODE	FOOT	12800	12800	
* X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8	8	
* X8780012	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	4	4	
* XX007622	ELECTRIC METER	EACH	1	1	
XX009046	VEHICLE DETECTION SYSTEM, SPECIAL	EACH	1	1	
* Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
* Z0033056	OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1	1	
* Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1	1	
Z0076600	TRAINEES	HOUR	500		500
Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500		500

* * SPECIALTY ITEM
 * SPECIAL PROVISION

USER NAME = njackson	DESIGNED BPT	REVISED -
PLOT SCALE = 2.0000 ' / in.	DRAWN NDJ	REVISED -
PLOT DATE = 12/29/2021	CHECKED RMM	REVISED -
	DATE 11/29/21	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES	
SCALE:	SHEET 5 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1518	20-00288-04-TL	DUPAGE	32	7
CONTRACT NO. 61H61				
ILLINOIS FED. AID PROJECT				

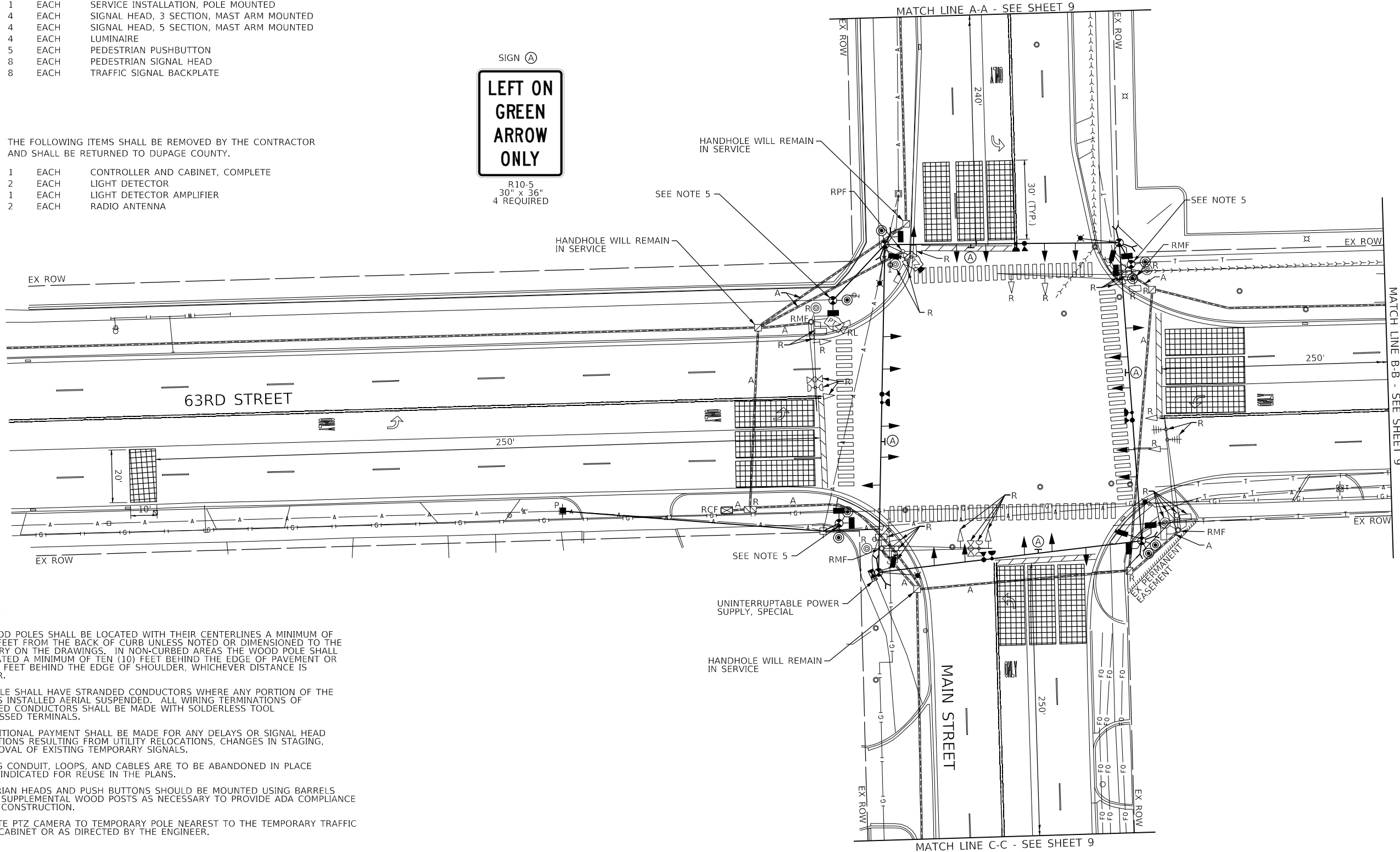
REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

- 1 EACH TRAFFIC SIGNAL POST
- 4 EACH COMBINATION MAST ARM ASSEMBLY AND POLE
- 4 EACH SIGNAL HEAD, 5 SECTION, BRACKET MOUNTED
- 1 EACH SERVICE INSTALLATION, POLE MOUNTED
- 4 EACH SIGNAL HEAD, 3 SECTION, MAST ARM MOUNTED
- 4 EACH SIGNAL HEAD, 5 SECTION, MAST ARM MOUNTED
- 4 EACH LUMINAIRE
- 5 EACH PEDESTRIAN PUSHBUTTON
- 8 EACH PEDESTRIAN SIGNAL HEAD
- 8 EACH TRAFFIC SIGNAL BACKPLATE

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE RETURNED TO DUPAGE COUNTY.

- 1 EACH CONTROLLER AND CABINET, COMPLETE
- 2 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER
- 2 EACH RADIO ANTENNA



NOTES

1. ALL WOOD POLES SHALL BE LOCATED WITH THEIR CENTERLINES A MINIMUM OF SIX (6) FEET FROM THE BACK OF CURB UNLESS NOTED OR DIMENSIONED TO THE CONTRARY ON THE DRAWINGS. IN NON-CURBED AREAS THE WOOD POLE SHALL BE LOCATED A MINIMUM OF TEN (10) FEET BEHIND THE EDGE OF PAVEMENT OR TWO (2) FEET BEHIND THE EDGE OF SHOULDER, WHICHEVER DISTANCE IS GREATER.
2. ALL CABLE SHALL HAVE STRANDED CONDUCTORS WHERE ANY PORTION OF THE CABLE IS INSTALLED AERIAL SUSPENDED. ALL WIRING TERMINATIONS OF STRANDED CONDUCTORS SHALL BE MADE WITH SOLDERLESS TOOL COMPRESSED TERMINALS.
3. NO ADDITIONAL PAYMENT SHALL BE MADE FOR ANY DELAYS OR SIGNAL HEAD RELOCATIONS RESULTING FROM UTILITY RELOCATIONS, CHANGES IN STAGING, OR REMOVAL OF EXISTING TEMPORARY SIGNALS.
4. EXISTING CONDUIT, LOOPS, AND CABLES ARE TO BE ABANDONED IN PLACE UNLESS INDICATED FOR REUSE IN THE PLANS.
5. PEDESTRIAN HEADS AND PUSH BUTTONS SHOULD BE MOUNTED USING BARRELS AND/OR SUPPLEMENTAL WOOD POSTS AS NECESSARY TO PROVIDE ADA COMPLIANCE DURING CONSTRUCTION.
6. RELOCATE PTZ CAMERA TO TEMPORARY POLE NEAREST TO THE TEMPORARY TRAFFIC SIGNAL CABINET OR AS DIRECTED BY THE ENGINEER.

MODEL: 04/24/21 FILE NAME: P20210101B1937_08 - Dupage County Various Traffic - W08104 - Drawings\DCN\CAD - Sheets\0101B1937_08\Temp_Signal.dwg

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

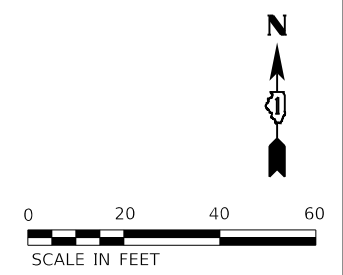
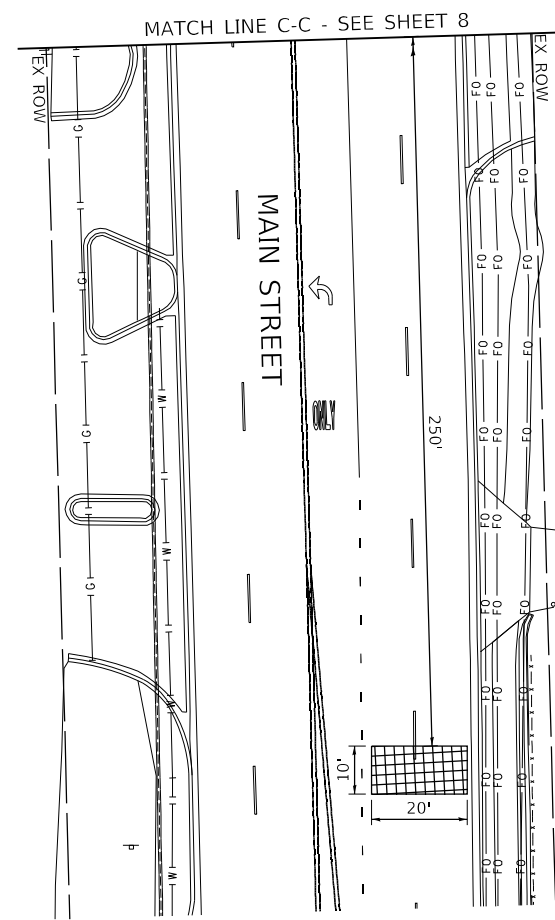
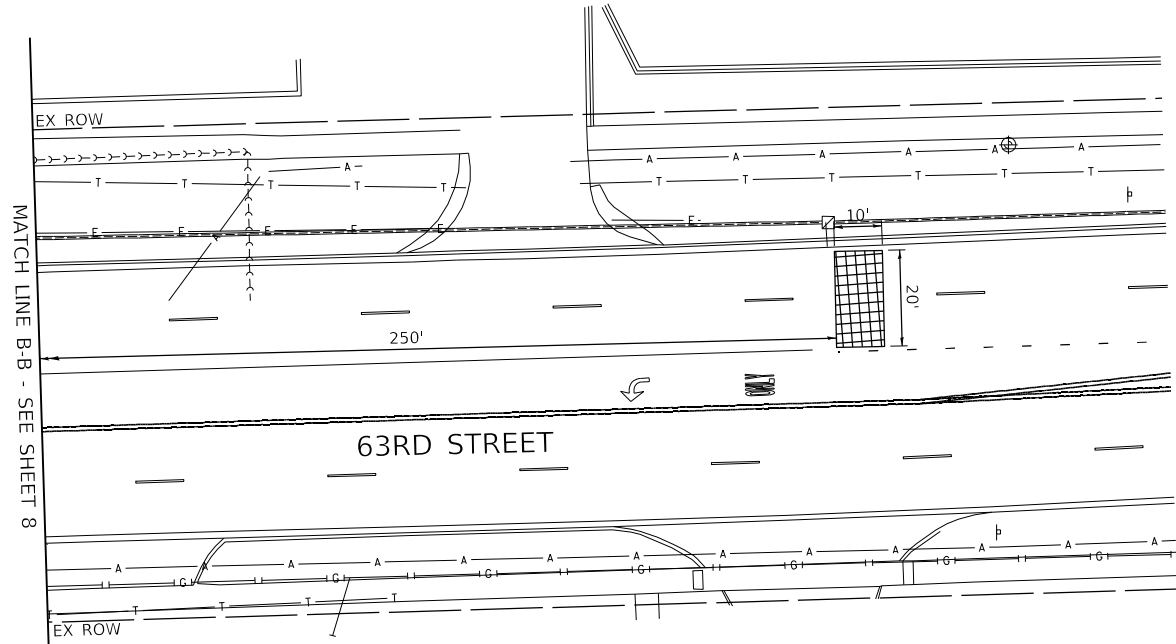
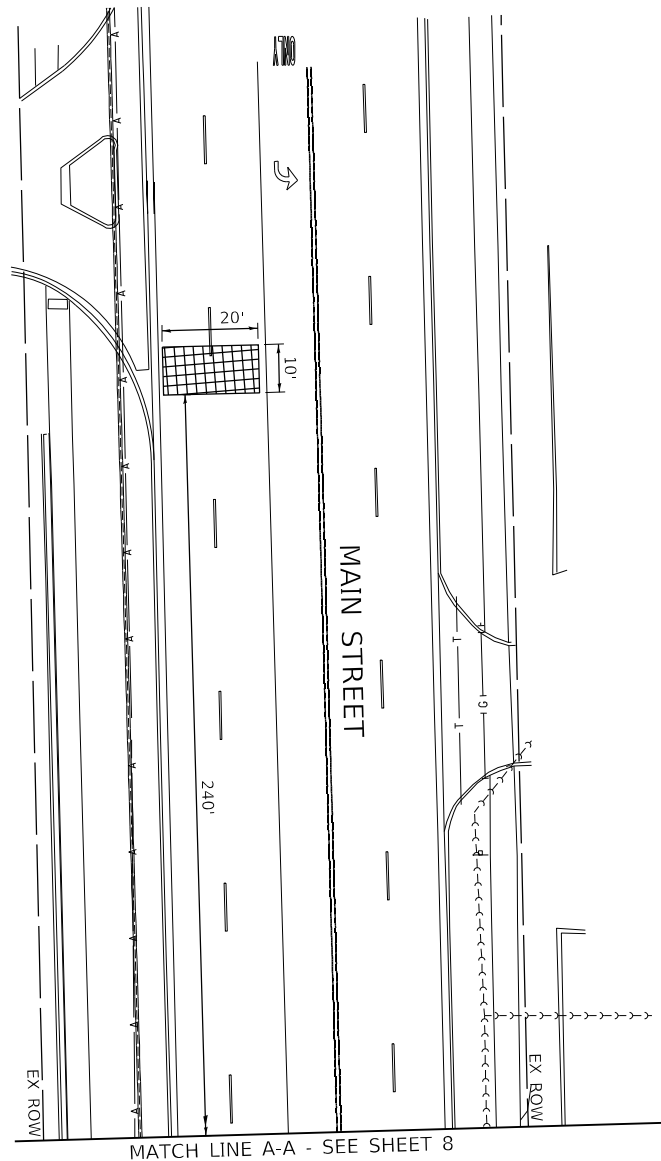
**TEMPORARY TRAFFIC SIGNAL INSTALLATION AND
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1518	20-00288-04-TL	DUPAGE	32	8
				CONTRACT NO. 61H61
ILLINOIS FED. AID PROJECT				

SCALE: 1" = 20' SHEET 1 OF 7 SHEETS STA. TO STA.



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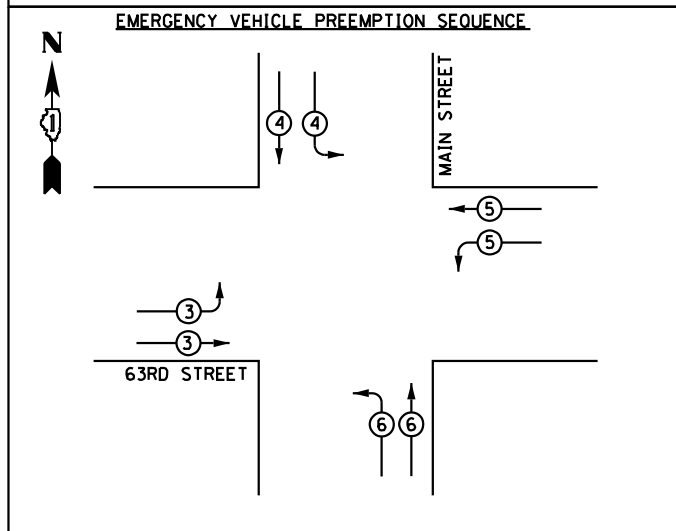
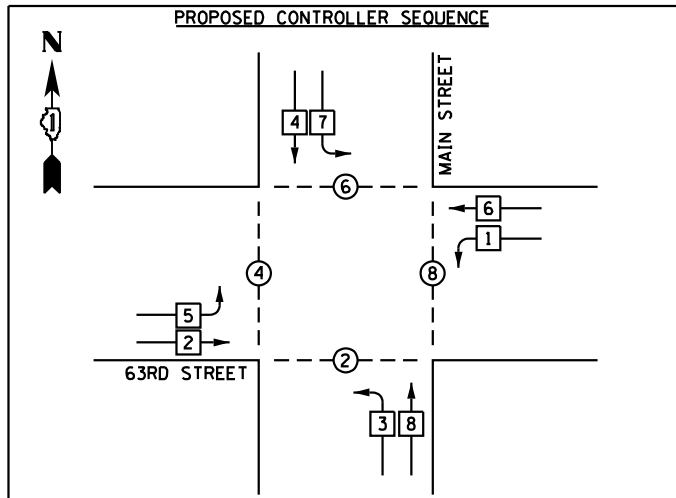
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PLOT SCALE	40.0000 * / in.	DATE	11/29/21	REVISED	-
PLOT DATE	11/29/2021				

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL INSTALLATION AND
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN**

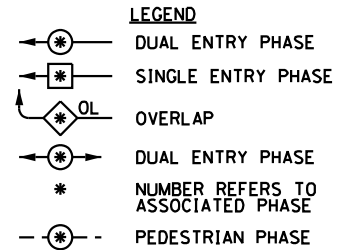
SCALE: 1" = 20' SHEET 2 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1518	20-00288-04-TL	DUPAGE	32	9
CONTRACT NO. 61H61				
ILLINOIS		FED. AID PROJECT		

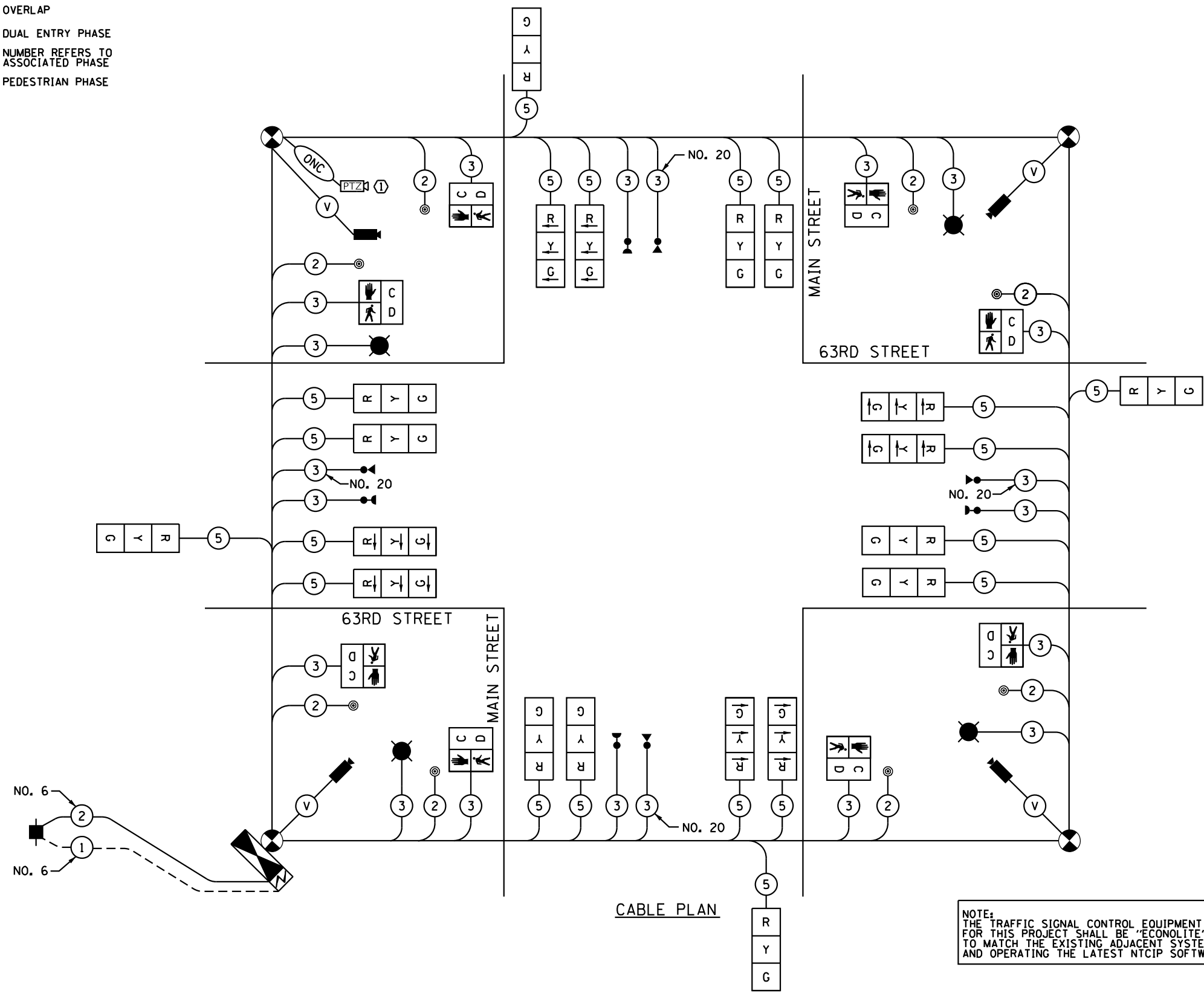


EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT				

TYPE	NO. LAMPS	WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	20 x	17	x 0.50	170.00
(YELLOW)	20 x	25	x 0.05	25.00
(GREEN)	20 x	15	x 0.45	135.00
ARROW	0 x	12	x 0.10	0.00
PED. SIGNAL	8 x	25	x 1.00	200.00
CONTROLLER	1 x	100	x 1.00	100.00
VIDEO SYSTEM	1 x	150	x 1.00	150.00
ILLUMINATED LED STREET NAME 8"	0 x	120	x 0.50	0.00
LUMINAIRE	4	165	x 0.50	330.00
ENERGY COSTS TO:				TOTAL = 1110.00
VILLAGE OF DOWNERS GROVE 801 BURLINGTON AVE, DOWNERS GROVE, IL 60515				
ENERGY SUPPLY CONTACT: <u>KEN BEATON</u> PHONE: <u>866-NEW-ELEC</u> COMPANY: <u>COMED</u>				



NOTES
 ① THE EXISTING PTZ CAMERA SHALL BE RELOCATED TO THE TEMPORARY SIGNAL AND THEN SHALL BE RELOCATED TO THE PERMANENT SIGNAL.



NOTE: THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM AND OPERATING THE LATEST NTCIP SOFTWARE.

MODEL: D:\dft\... FILE NAME: P:\2021\01\01\19137_08 - Dupage County - Various Traffic - W09101 - Drawings\DCN\CAD Sheets\01\19137_08\tsch\tsch.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN

SCALE: N.T.S. SHEET 3 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1518	20-00288-04-TL	DUPAGE	32	10
CONTRACT NO. 61H61				
ILLINOIS FED. AID PROJECT				

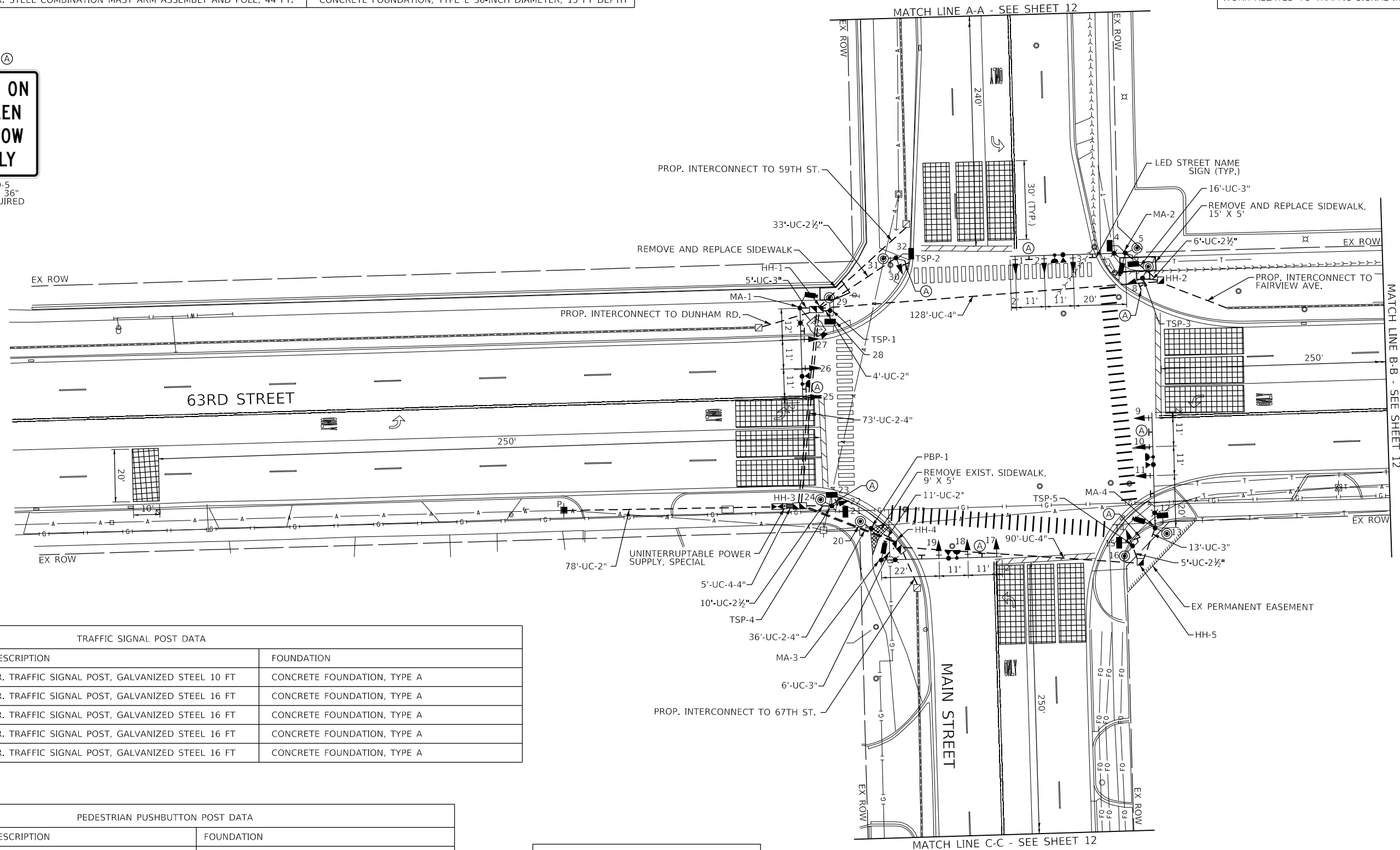
USER NAME	DESIGNED	REVISION
njackson	BPT	-
	NDJ	-
	RMM	-
		-

MAST ARM POLE DATA		
NO.	DESCRIPTION	FOUNDATION
MA-1	PR. STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 36 FT.	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER, 15 FT DEPTH
MA-2	PR. STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 44 FT.	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER, 15 FT DEPTH
MA-3	PR. STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 46 FT.	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER, 15 FT DEPTH
MA-4	PR. STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 44 FT.	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER, 15 FT DEPTH

NOTE:
SEE SHEETS 14-18 FOR INFORMATION ON
WORK RELATED TO TRAFFIC SIGNAL INTERCONNECTION.

SIGN (A)

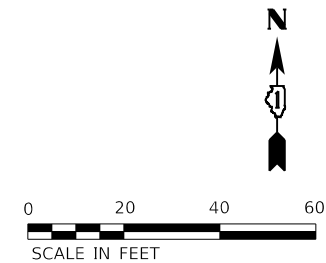
R10-5
30" x 36"
8 REQUIRED



TRAFFIC SIGNAL POST DATA		
NO.	DESCRIPTION	FOUNDATION
TSP-1	PR. TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT	CONCRETE FOUNDATION, TYPE A
TSP-2	PR. TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT	CONCRETE FOUNDATION, TYPE A
TSP-3	PR. TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT	CONCRETE FOUNDATION, TYPE A
TSP-4	PR. TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT	CONCRETE FOUNDATION, TYPE A
TSP-5	PR. TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT	CONCRETE FOUNDATION, TYPE A

PEDESTRIAN PUSHBUTTON POST DATA		
NO.	DESCRIPTION	FOUNDATION
PBP-1	PR. PEDESTRIAN SIGNAL POST, 5 FT	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER

NOTE:
THE TRAFFIC SIGNAL CONTROL EQUIPMENT
FOR THIS PROJECT SHALL BE "ECONOLITE"
TO MATCH THE EXISTING ADJACENT SYSTEM
AND OPERATING THE LATEST NTCIP SOFTWARE.



MODEL: D:\p1\1129\1129101\1129101.dwg - D:\p1\1129\1129101\1129101.dwg - D:\p1\1129\1129101\1129101.dwg

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DRAWN	NDJ	CHECKED	RMM	REVISED	-
PLOT SCALE	40,0000 * / in.	DATE	11/29/21	REVISED	-
PLOT DATE	11/29/2021				

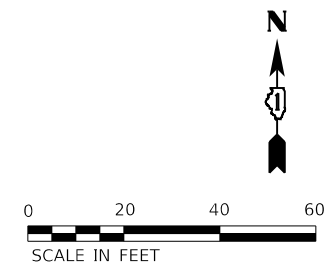
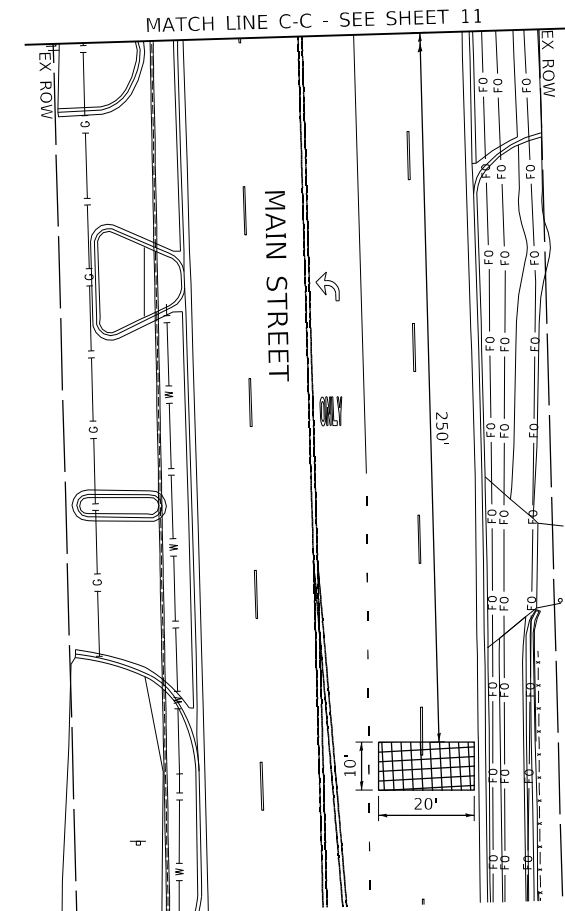
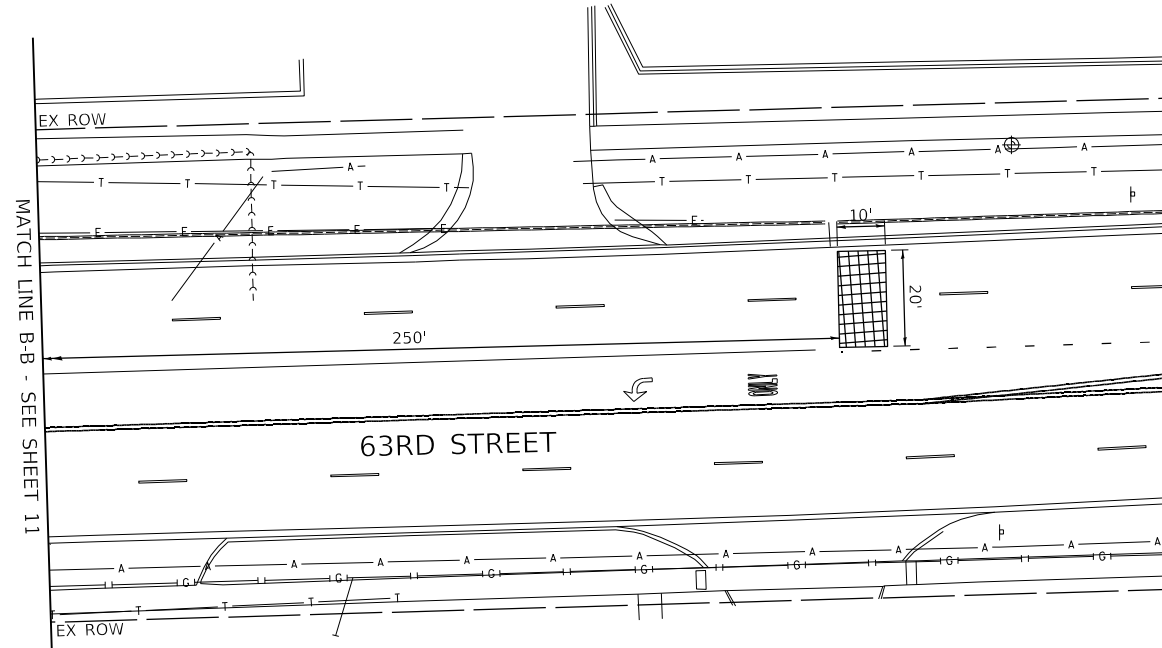
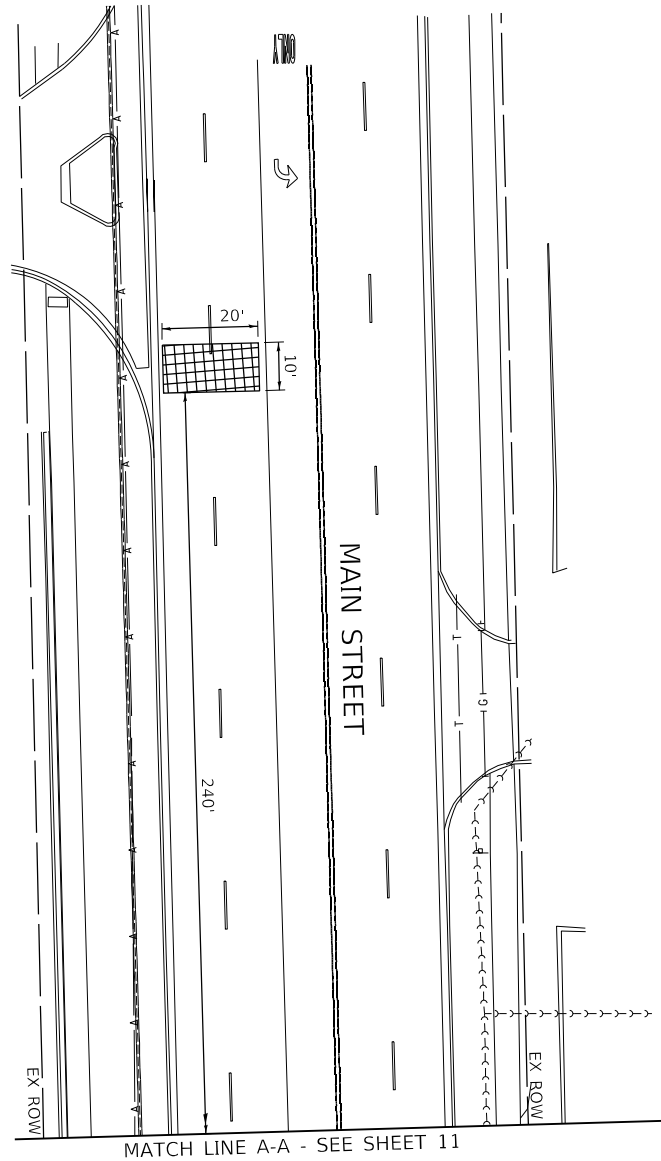
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TRAFFIC SIGNAL MODERNIZATION

SCALE: 1" = 20' SHEET 4 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1518	20-00288-04-TL	DUPAGE	32	11
				CONTRACT NO. 61H61
ILLINOIS FED. AID PROJECT				

MODEL: D:\info\11
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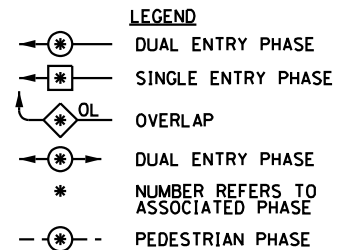
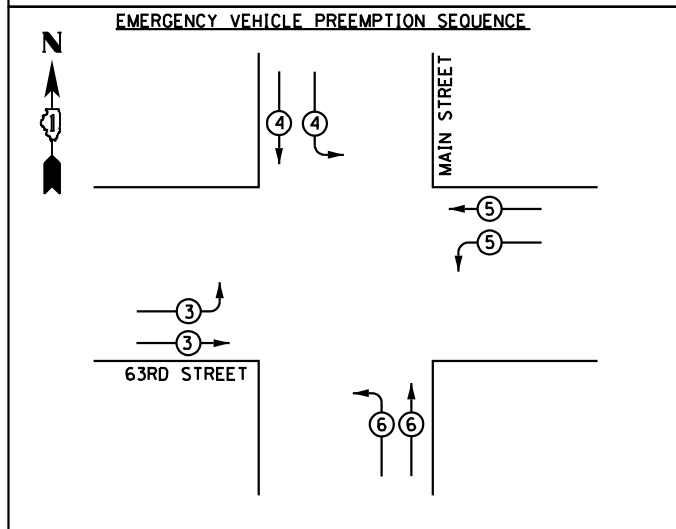
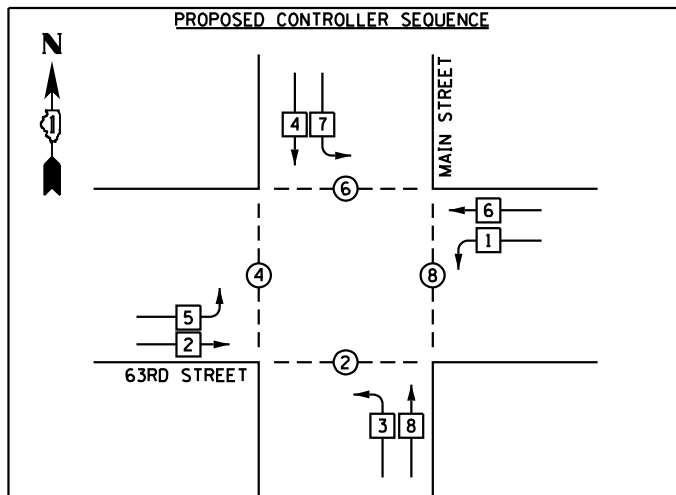
USER NAME	njackson	DESIGNED	BPT	REVISED	-
DRAWN	NDJ	CHECKED	RMM	REVISED	-
DATE	11/29/21	REVISIONS			

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROPOSED TRAFFIC SIGNAL MODERNIZATION

SCALE: 1" = 20' SHEET 5 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1518	20-00288-04-TL	DUPAGE	32	12
CONTRACT NO. 61H61				
ILLINOIS FED. AID PROJECT				



NOTE:
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM AND OPERATING THE LATEST NTCIP SOFTWARE.

PROPOSED EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT				

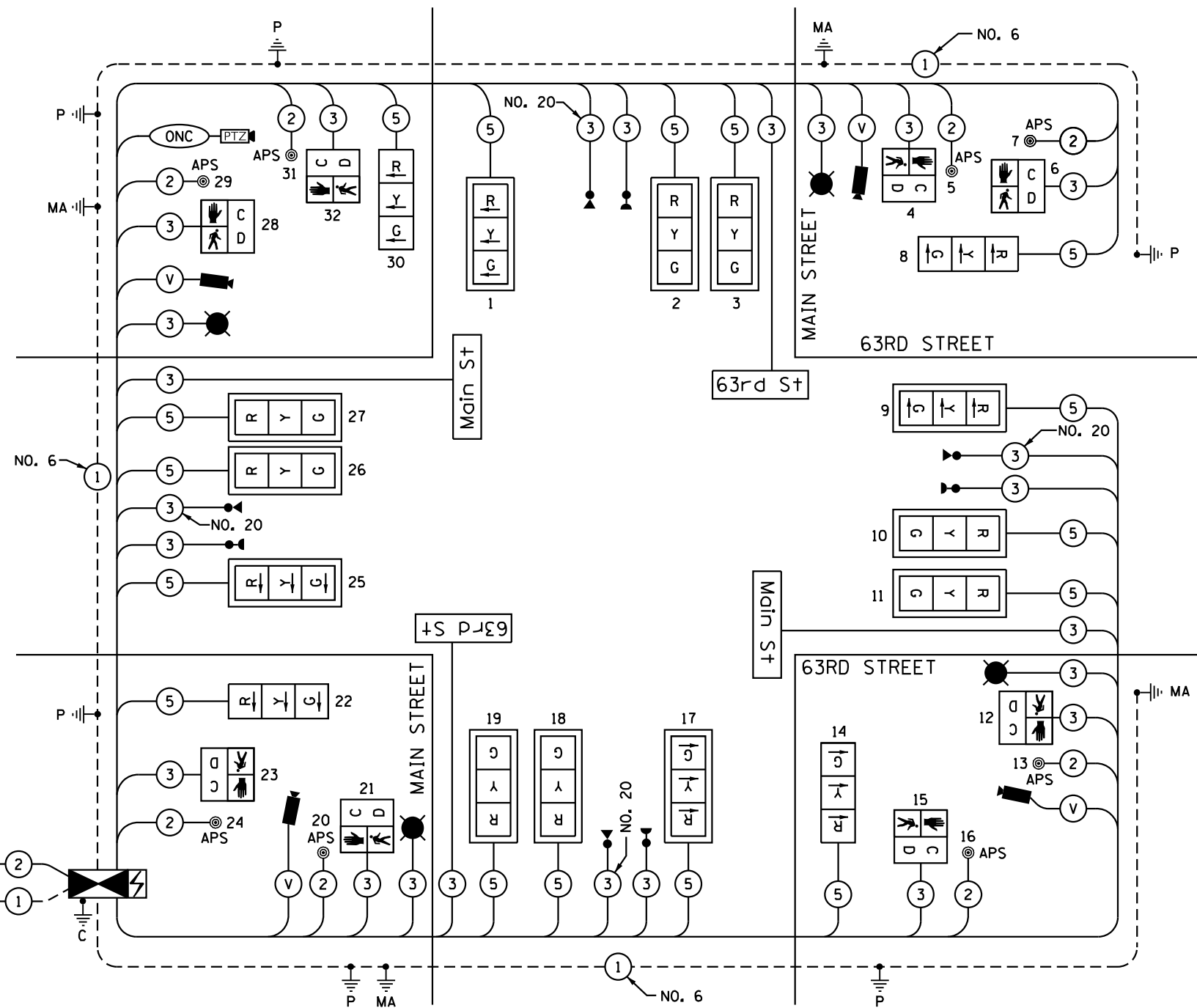
DUPAGE COUNTY
DIVISION OF TRANSPORTATION
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. LAMPS	WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16 x	17	x 0.50	136.00
(YELLOW)	16 x	25	x 0.05	20.00
(GREEN)	16 x	15	x 0.45	108.00
ARROW	0 x	12	x 0.10	00.00
PED. SIGNAL	8 x	25	x 1.00	200.00
CONTROLLER	1 x	100	x 1.00	100.00
VIDEO SYSTEM	1 x	150	x 1.00	150.00
ILLUMINATED LED STREET NAME 8"	4 x	120	x 0.50	240.00
LUMINAIRE	4	165	x 0.50	330.00
ENERGY COSTS TO:				TOTAL = 1,284.00

VILLAGE OF DOWNERS GROVE
801 BURLINGTON AVE, DOWNERS GROVE, IL 60515

ENERGY SUPPLY CONTACT: KEN BEATON
PHONE: 866-NEW-ELEC
COMPANY: COMED

USER NAME	njackson	DESIGNED	BPT	REVISED	-
PLOT SCALE	40.0000' / in.	DRAWN	NDJ	REVISED	-
PLOT DATE	12/14/2021	CHECKED	RMM	REVISED	-
		DATE	11/29/21	REVISED	-



CABLE PLAN

NOTES

- STREET NAME SIGN CABLES ARE NO. 14 3C, TYPE 500W
- LUMINAIRE CABLES ARE 600V (XLP-TYPE USE) 3-1/C NO. 10

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN

SCALE: N.T.S. SHEET 6 OF 7 SHEETS STA. TO STA.

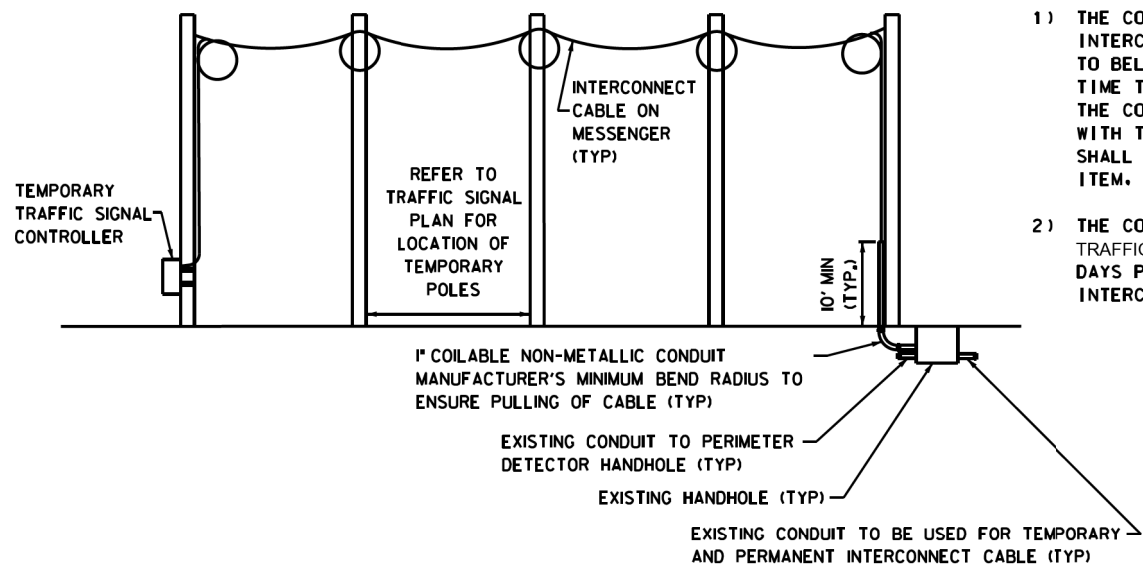
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1518	20-00288-04-TL	DUPAGE	32	13
				CONTRACT NO. 61H61
ILLINOIS FED. AID PROJECT				

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SCHEDULE OF QUANTITIES			
PAY ITEM	ITEM	UNIT	QUANTITY
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	136
44000600	SIDEWALK REMOVAL	SQ FT	151
72000100	SIGN PANEL - TYPE 1	SQ FT	60
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	336
80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	1
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	93
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA	FOOT	54
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA	FOOT	40
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA	FOOT	456
81400100	HANDHOLE	EACH	2
81400300	DOUBLE HANDHOLE	EACH	3
81702450	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 10	FOOT	821
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1317
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2191
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3215
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	110
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	837
87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
87702910	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT	EACH	1
87702950	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT.	EACH	2
87702960	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT.	EACH	1
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	20
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	60
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	12
88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BM WITH COUNT DOWN TIMER	EACH	8
88200510	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	12
88700200	LIGHT DETECTOR	EACH	4
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502380	REMOVE EXISTING HANDHOLE	EACH	2
89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	860
X0327211	RELOCATE SWITCH	EACH	1
X0327698	LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4
X1400102	OUTDOOR RATED NETWORK CABLE	FOOT	139
X1400238	LUMINAIRE, LED, SPECIAL	EACH	4
X1400322	RELOCATE EXISTING REMOTE-CONTROLLED VIDEO SYSTEM	EACH	2
X1400378	PEDESTRIAN SIGNAL POST, 5 FT.	EACH	1
X1400424	ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE SOOW	FOOT	805
X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
X8780012	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	4
XX007622	ELECTRIC METER	EACH	1
XX009046	VEHICLE DETECTION SYSTEM, SPECIAL	EACH	1
Z0013798	CONSTRUCTION LAYOUT	L SUM	1
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES	F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
DESIGNED	DRAWN	REVISED			1388	20-00288-04-TL	DUPAGE	32	14	
PLOT SCALE	CHECKED	REVISED			CONTRACT NO. 61H61					
PLOT DATE	DATE	REVISED			SCALE: N.T.S.	SHEET 7 OF 7 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

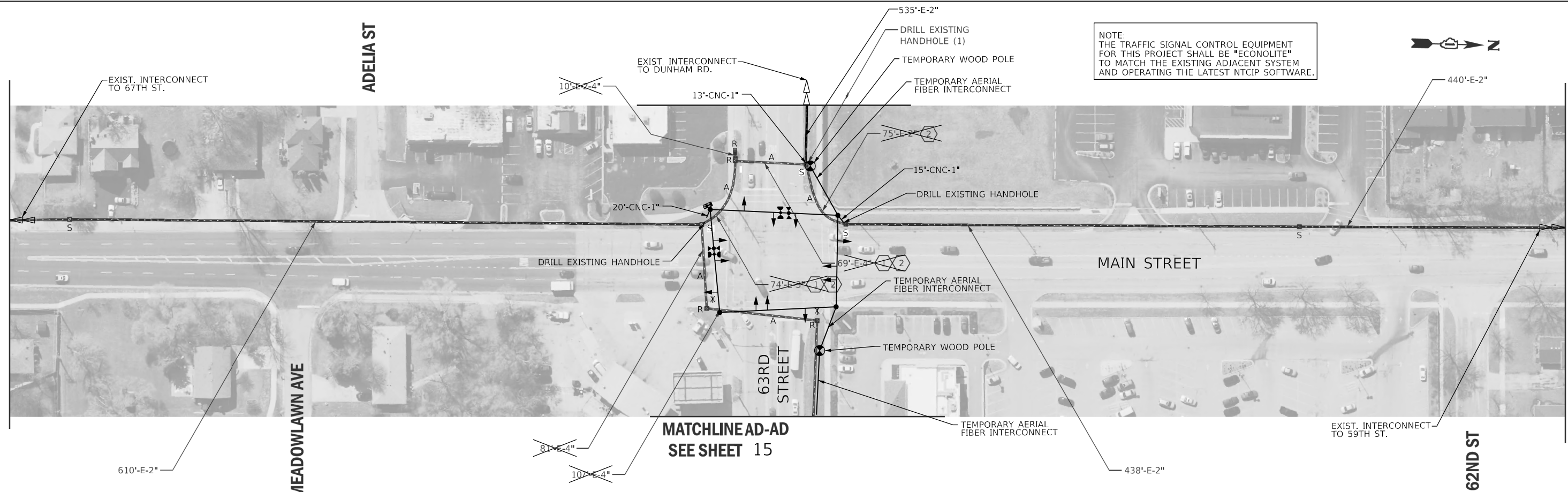


- 1) THE CONDUIT USED FOR THE TEMPORARY INTERCONNECT CABLE SHALL BE REMOVED TO BELOW GROUND LEVEL AND CAPPED AT THE TIME THE TEMPORARY SIGNAL IS REMOVED. THE CONDUIT, AS WELL AS ALL WORK ASSOCIATED WITH THE INSTALLATION AND REMOVAL OF IT, SHALL BE CONSIDERED INCLUDED IN THE PAY ITEM, "TEMPORARY TRAFFIC SIGNAL INSTALLATION".
- 2) THE CONTRACTOR MUST NOTIFY THE DUDOT TRAFFIC ENGINEER A MINIMUM OF SEVEN WORKING DAYS PRIOR TO THE START OF ANY WORK ON THE INTERCONNECT SIGNAL SYSTEM.

CONSTRUCTION NOTES

- 1) TEMPORARY FIBER AND EXISTING FIBER SHALL BE SPLICED IN A WEATHERPROOF ENCLOSURE MOUNTED ON THE WOOD POLE IN A WORKMANLIKE MANNER. THE CONTRACTOR SHALL STAGE WORK SO THE DURATION OF INTERRUPTION TO THE COMMUNICATIONS IS MINIMAL. COST SHALL BE INCLUDED IN THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION."
- 2) PULL EXISTING FIBER OPTIC CABLES AND TRACER CABLES FROM EXISTING INTERSECTION CONDUITS AND HANDHOLES AS INDICATED ON PLANS TO EXISTING SYSTEM HANDHOLES WHERE THEY ARE TO BE COILED AND STORED FOR FUTURE USE. THE EXISTING FIBER OPTIC CABLE SHALL BE SPLICED TO THE TEMPORARY FIBER FOR THE TEMPORARY INTERCONNECT ACCORDING TO PLAN NOTES AND DETAIL. THE CONTRACTOR SHALL EXERCISE CARE TO ENSURE THAT ENTIRE LENGTH OF CABLE IS PROTECTED FROM DAMAGE AND LOSS AFTER REMOVAL.

NOTE:
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM AND OPERATING THE LATEST NTCIP SOFTWARE.



MODEL: D:\info\11\2018\01\01\1927\08 - DuPage County Various Traffic - W08104 - Drawings\DCN\CAD Sheets\01\1927\08\ehb - Temp Interconnect.dgn

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DRAWN	NDJ	CHECKED	RMM	REVISED	-
PLOT SCALE	100.0000' / in.	DATE	11/29/21	REVISED	-
PLOT DATE	11/29/2021				

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

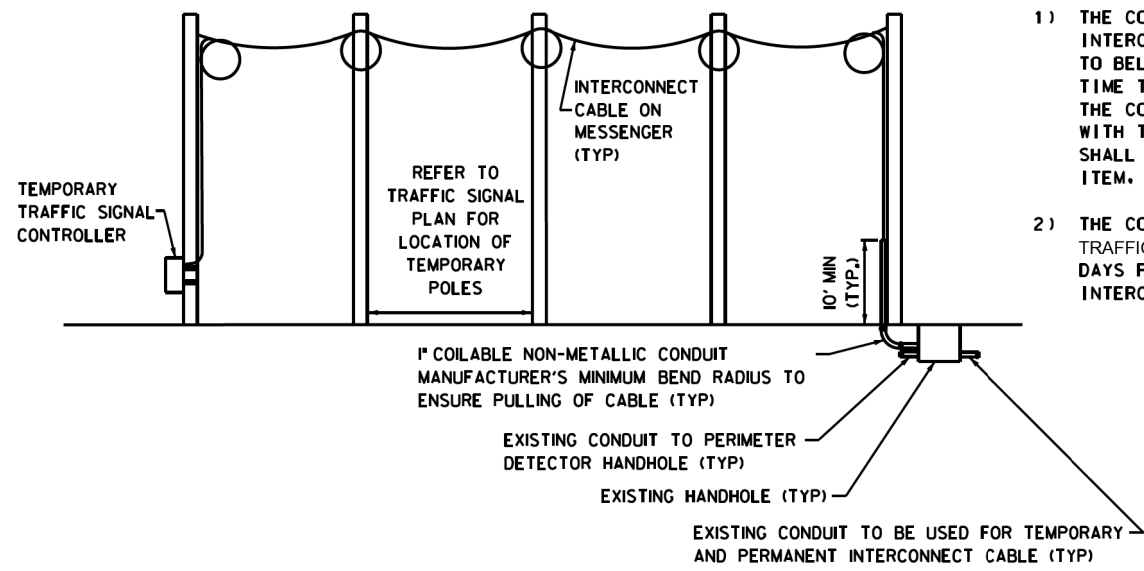
**TEMPORARY INTERCONNECT PLAN
63RD STREET AND MAIN STREET**

SCALE: 1" = 50' SHEET 1 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1518	20-00288-04-TL	DUPAGE	32	15
CONTRACT NO. 61H61			ILLINOIS FED. AID PROJECT	



MATCHLINE AD-AD SEE SHEET 14



- 1) THE CONDUIT USED FOR THE TEMPORARY INTERCONNECT CABLE SHALL BE REMOVED TO BELOW GROUND LEVEL AND CAPPED AT THE TIME THE TEMPORARY SIGNAL IS REMOVED. THE CONDUIT, AS WELL AS ALL WORK ASSOCIATED WITH THE INSTALLATION AND REMOVAL OF IT, SHALL BE CONSIDERED INCLUDED IN THE PAY ITEM, "TEMPORARY TRAFFIC SIGNAL INSTALLATION".
- 2) THE CONTRACTOR MUST NOTIFY THE DUDOT TRAFFIC ENGINEER A MINIMUM OF SEVEN WORKING DAYS PRIOR TO THE START OF ANY WORK ON THE INTERCONNECT SIGNAL SYSTEM.

MODEL: D:\info\11\2021\01\01\1927\08 - Dupage County Various Traff - W08104_Drawing\DCN\CAD_Sheets\01\1927_08\shb-Temp Interconnect.dgn

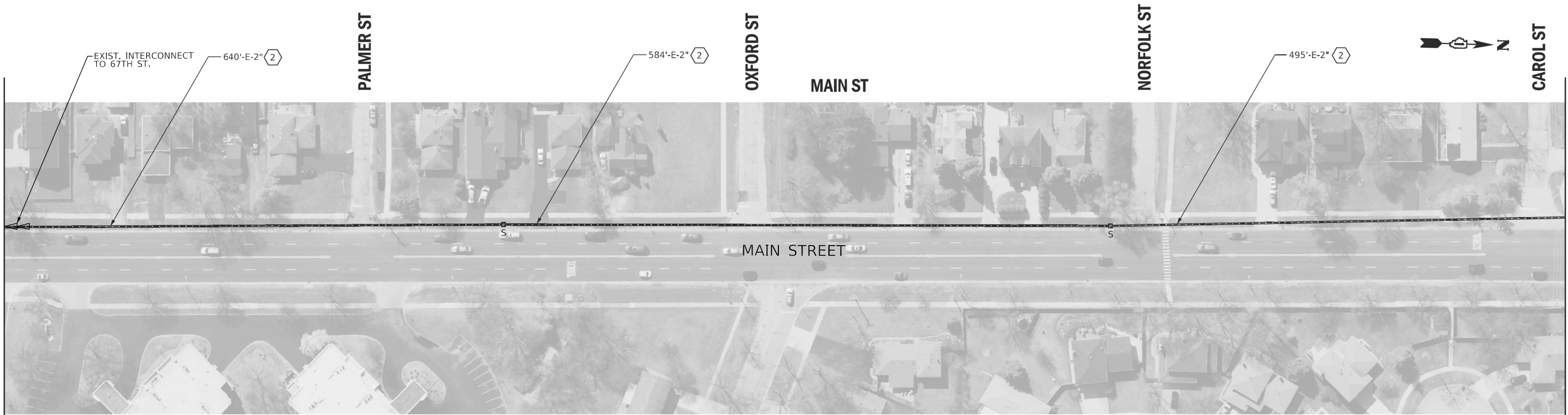
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DRAWN	NDJ	REVISÉD	-	REVISÉD	-
PLOT SCALE	100.0000' / in.	CHECKED	RMM	REVISÉD	-
PLOT DATE	11/29/2021	DATE	11/29/21	REVISÉD	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY INTERCONNECT PLAN
63RD STREET AND MAIN STREET**

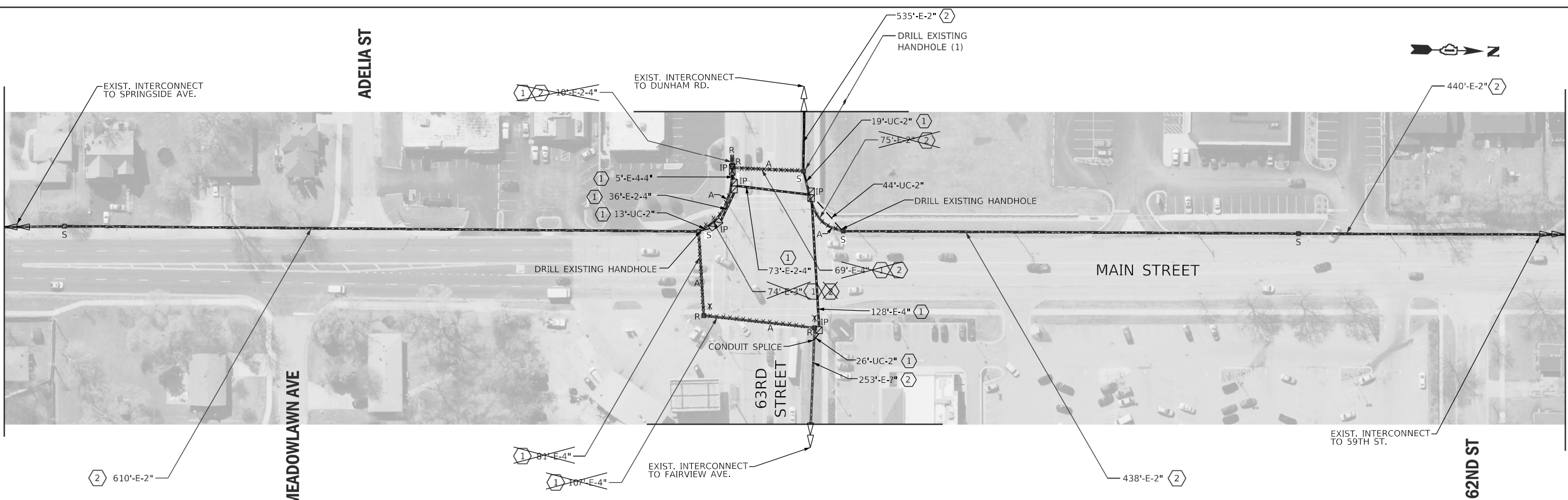
SCALE: 1" = 50' SHEET 2 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1518	20-00288-04-TL	DUPAGE	32	16
				CONTRACT NO. 61H61
		ILLINOIS	FED. AID PROJECT	



NOTES:

- ① THE CONTRACTOR SHALL INSTALL PROPOSED FIBER OPTIC CABLE AND TRACER CABLE.
- ② THE CONTRACTOR SHALL REMOVE THE EXISTING FIBER OPTIC CABLE AND TRACER CABLE AND INSTALL THE PROPOSED FIBER OPTIC CABLE AND TRACER CABLE.



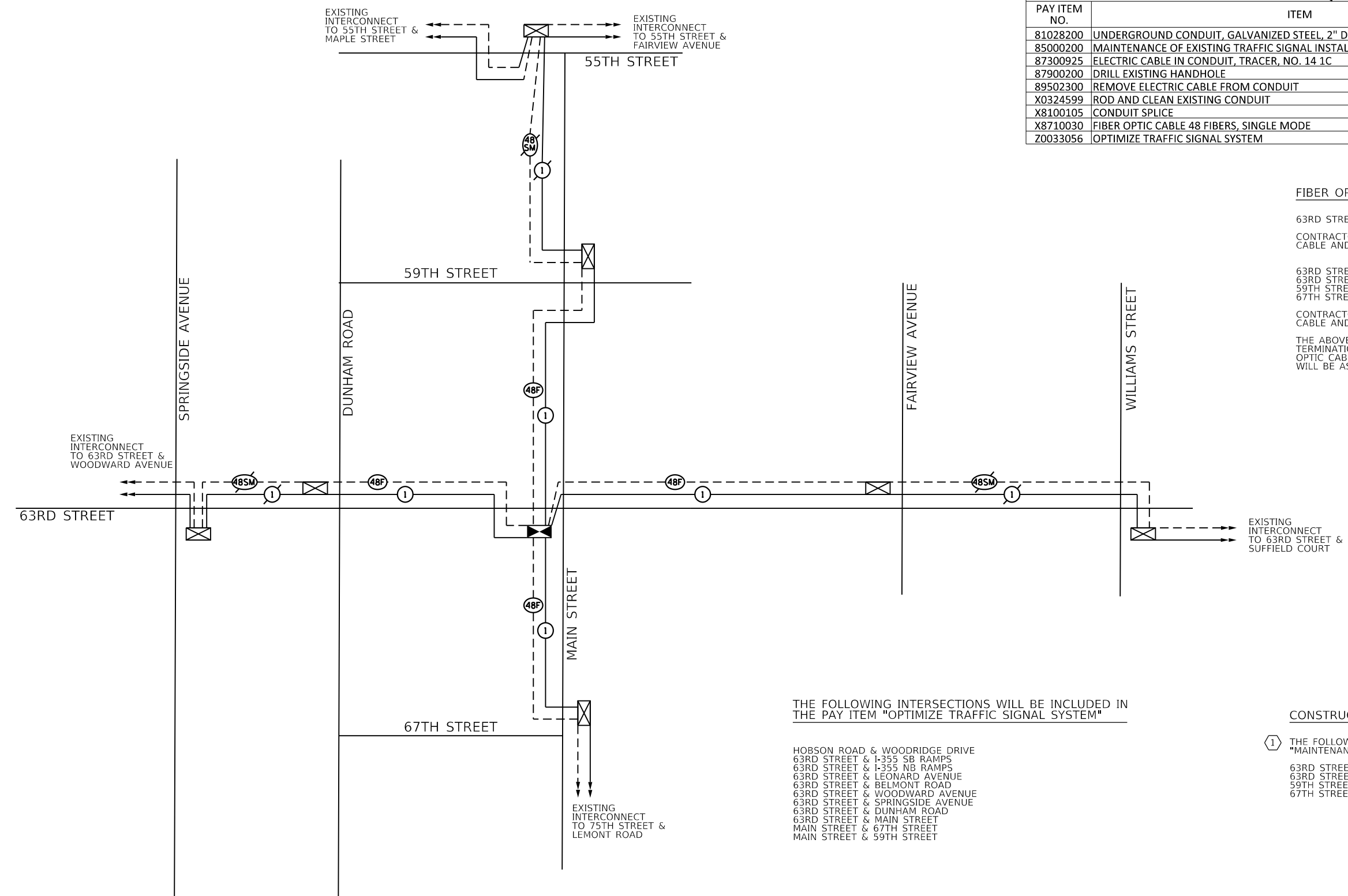
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DRAWN	NDJ	REVISIONS		REVISED	-
PLOT SCALE	100.0000' / 1" =	CHECKED	RMM	REVISED	-
PLOT DATE	11/29/2021	DATE	11/29/21	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
63RD STREET AND MAIN STREET
 SCALE: 1" = 50' SHEET 4 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1518	20-00288-04-TL	DUPAGE	32	18
CONTRACT NO. 61H61			ILLINOIS FED. AID PROJECT	

SCHEDULE OF QUANTITIES			
PAY ITEM NO.	ITEM	UNIT	QUANTITY
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	102
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	4
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	12800
87900200	DRILL EXISTING HANDHOLE	EACH	2
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	12500
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	12500
X8100105	CONDUIT SPLICE	EACH	1
X8710030	FIBER OPTIC CABLE 48 FIBERS, SINGLE MODE	FOOT	12800
Z0033056	OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1



FIBER OPTIC CABLE TERMINATIONS AND SPLICES

63RD STREET & MAIN STREET
 CONTRACTOR SHALL INSTALL 24 TERMINATIONS PER FIBER OPTIC CABLE AND 24 SPLICES PER CABINET.

63RD STREET & DUNHAM ROAD
 63RD STREET & FAIRVIEW AVENUE
 59TH STREET & MAIN STREET
 67TH STREET & MAIN STREET
 CONTRACTOR SHALL INSTALL 12 TERMINATIONS PER FIBER OPTIC CABLE AND 6 SPLICES PER CABINET.

THE ABOVE WORK SHALL BE ACCORDING TO THE SPECIAL PROVISIONS. TERMINATIONS AND SPLICES ARE INCLUDED IN THE COST OF FIBER OPTIC CABLE. THE SPECIFIC FIBERS TO BE TERMINATED AND SPLICED WILL BE AS DIRECTED BY THE ENGINEER.

THE FOLLOWING INTERSECTIONS WILL BE INCLUDED IN THE PAY ITEM "OPTIMIZE TRAFFIC SIGNAL SYSTEM"

- HOBSON ROAD & WOODRIDGE DRIVE
- 63RD STREET & I-355 SB RAMP
- 63RD STREET & I-355 NB RAMP
- 63RD STREET & LEONARD AVENUE
- 63RD STREET & BELMONT ROAD
- 63RD STREET & WOODWARD AVENUE
- 63RD STREET & SPRINGSIDE AVENUE
- 63RD STREET & DUNHAM ROAD
- 63RD STREET & MAIN STREET
- MAIN STREET & 67TH STREET
- MAIN STREET & 59TH STREET

CONSTRUCTION NOTES

- 1 THE FOLLOWING INTERSECTIONS WILL BE INCLUDED IN THE PAY ITEM "MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION":
 63RD STREET & DUNHAM ROAD
 63RD STREET & FAIRVIEW AVENUE
 59TH STREET & MAIN STREET
 67TH STREET & MAIN STREET

NOTE:
 THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM AND OPERATING THE LATEST NTCIP SOFTWARE.

MODEL: D:\p1\11\2018\01\181927\08 - DuPage County - Various Traffic - W08104 - Drawings\DCN\CAD_Sheets\0181927\08\FiberInterconnect_Schematic.dgn
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DRAWN	NDJ	CHECKED	RMM	REVISED	-
PLOT SCALE	NTS	DATE	11/29/21	REVISED	-
PLOT DATE	11/29/2021				

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

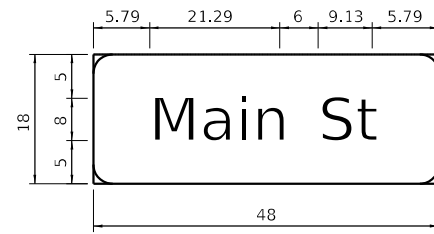
**INTERCONNECT SCHEMATIC
 63RD STREET AND MAIN STREET**

SCALE: N.T.S. SHEET 5 OF 5 SHEETS STA. TO STA.

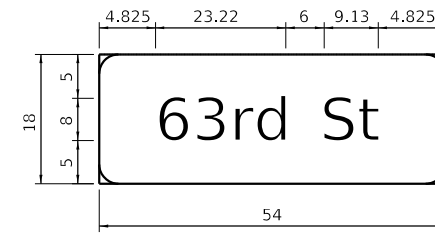
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1518	20-00288-04-TL	DUPAGE	32	19
				CONTRACT NO. 61H61
		ILLINOIS	FED. AID PROJECT	

**LED ILLUMINATED MAST ARM MOUNTED
STREET NAME SIGN**

NOTE: ALL SIGNS TO BE DOUBLE-SIDED

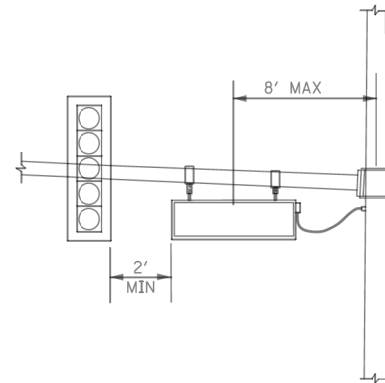


SIGN DIMENSIONS	SIGN NAME	QUANTITY	FONT: FHWA SERIES	SHEETING TYPE
48" x 18"	Main St	2	D	ZZ



SIGN DIMENSIONS	SIGN NAME	QUANTITY	FONT: FHWA SERIES	SHEETING TYPE
48" x 18"	63rd St	2	D	ZZ

NOTE: THE LED ILLUMINATED STREET NAME SIGN SHALL BE PENDANT MOUNT. FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION, PLEASE SEE DISTRICT ONE ILLUMINATED STREET NAME SIGN DETAIL.



**PENDANT MOUNT
ILLUMINATED STREET NAME SIGN**

NOTE: LED STREET NAME SIGN SHALL BE 2-SIDED AND PENDANT MOUNT TO THE STEEL MAST ARM ASSEMBLY.

MODEL: D:\info\... FILE NAME: P:\2018\01\01\1927\08 - Dupage County Various Traffic - W08104_Drawing\DCN\CAD_Sheets\01\01\1927\08\1927\08.dgn

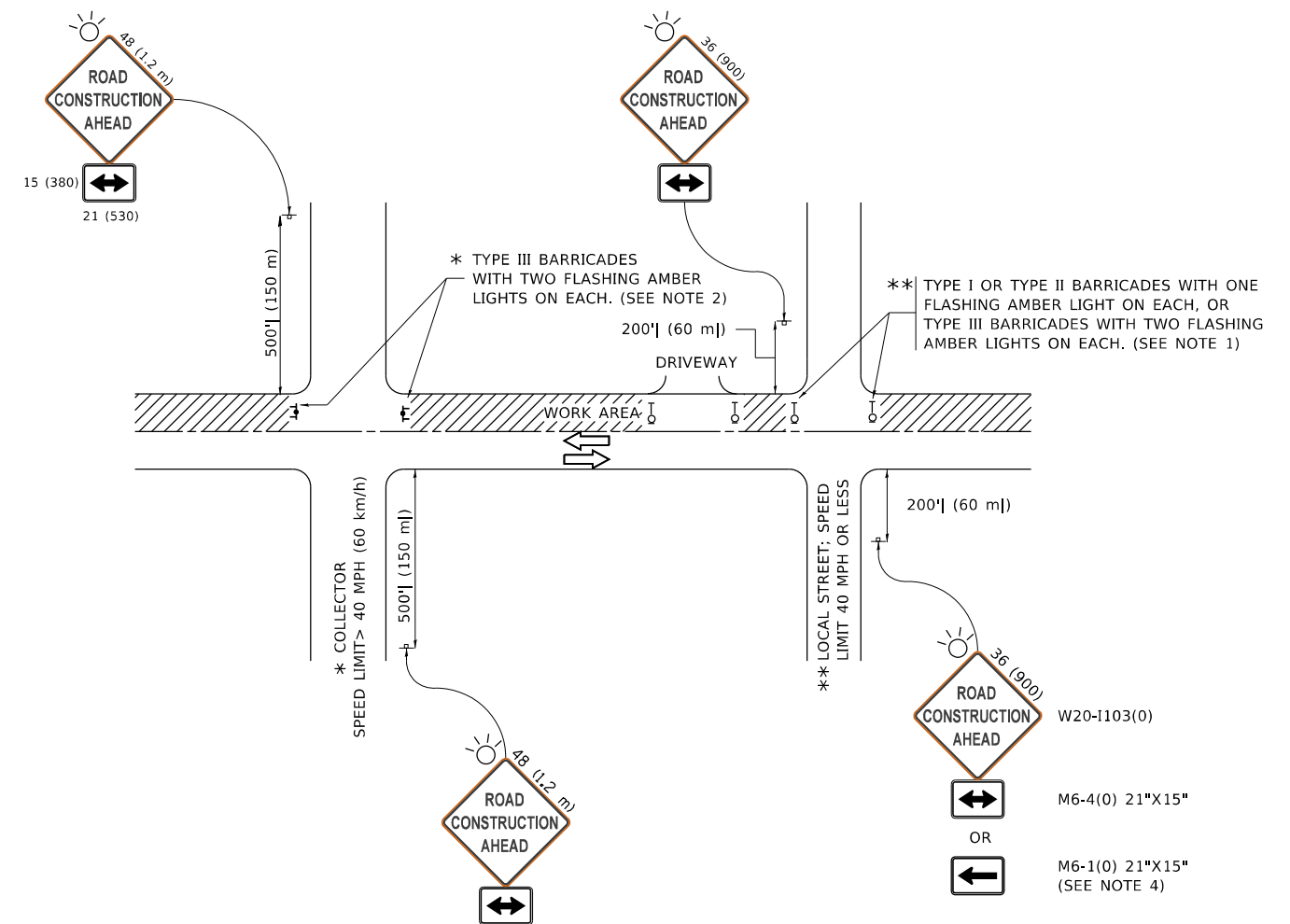
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DRAWN	NDJ	CHECKED	RMM	REVISED	-
PLOT SCALE	40.0000 * / in.	DATE	11/29/21	REVISED	-
PLOT DATE	11/29/2021				

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LED ILLUMINATED MAST ARM MOUNTED STREET NAME SIGN

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1518	20-00288-04-TL	DUPAGE	32	20
CONTRACT NO. 61H61				
ILLINOIS FED. AID PROJECT				



NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

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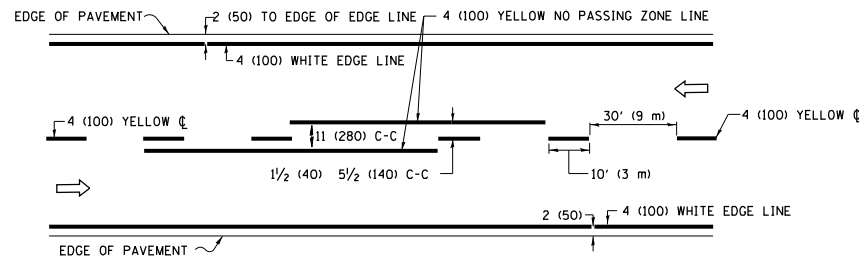
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		DRAWN		REVISED	T. RAMMACHER 01-06-00
PLOT SCALE	50.0000 * / in.	CHECKED		REVISED	A. SCHUETZE 07-01-13
PLOT DATE	3/4/2019	DATE	06-89	REVISED	A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

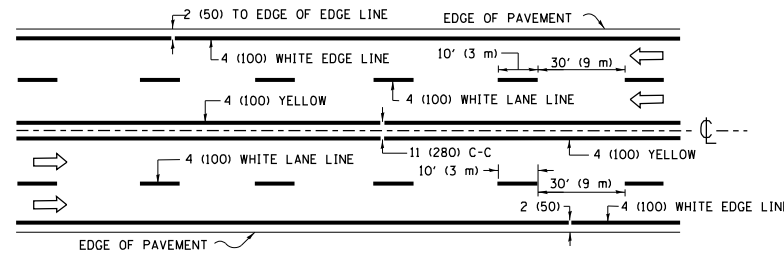
**TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

SCALE: NONE SHEET 1 OF 12 SHEETS STA. TO STA.

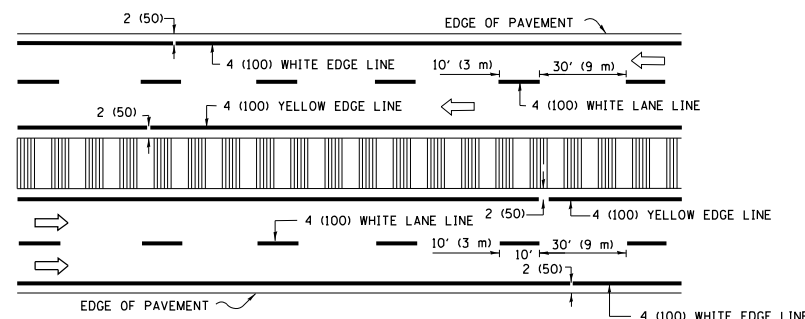
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1518	20-00288-04-TL	DUPAGE	32	21
TC-10		CONTRACT NO. 61H61		
ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

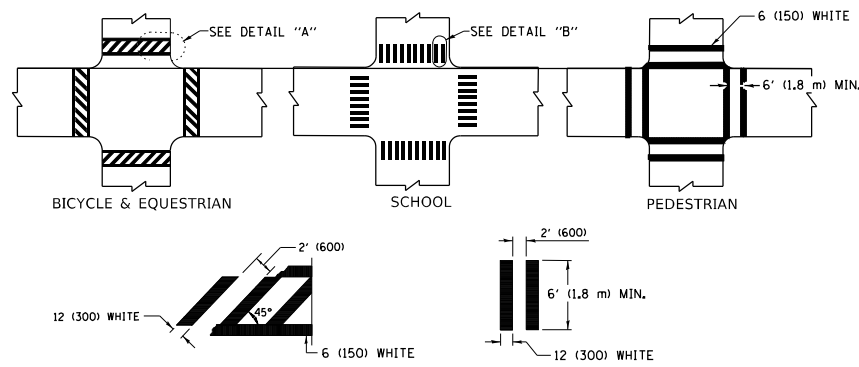


MULTI-LANE UNDIVIDED



MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

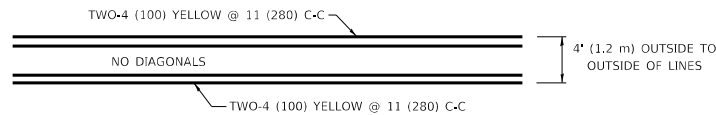


DETAIL "A"

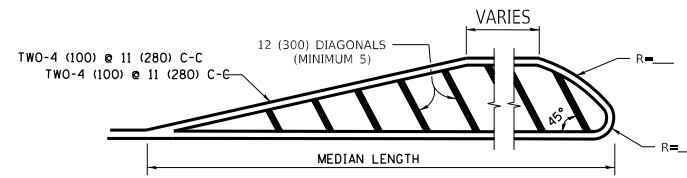
DETAIL "B"

TYPICAL CROSSWALK MARKING

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

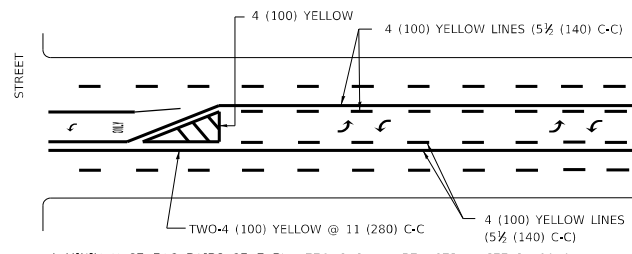


4' (1.2 m) WIDE MEDIANS ONLY



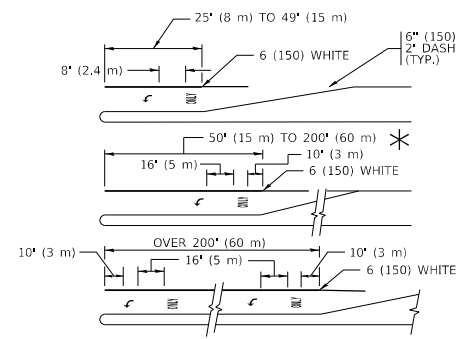
MEDIANS OVER 4' (1.2 m) WIDE

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



MEDIAN WITH TWO-WAY LEFT TURN LANE

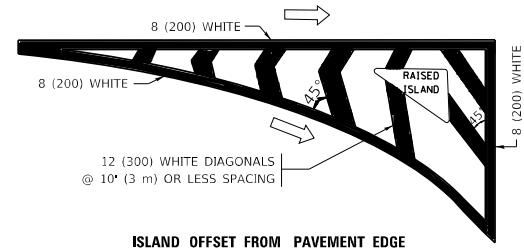
TYPICAL PAINTED MEDIAN MARKING



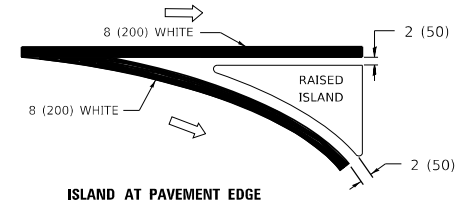
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

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*.

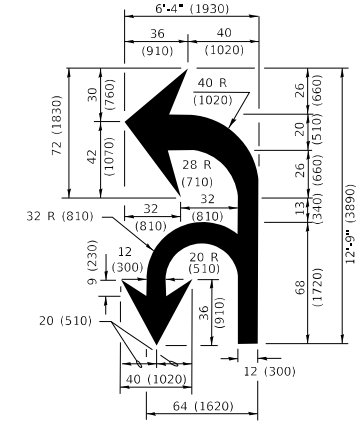


ISLAND OFFSET FROM PAVEMENT EDGE

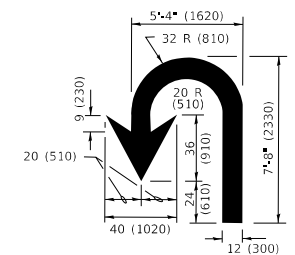


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

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

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

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE: FULL SIZE LETTERS & SYMBOLS (8" (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 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.

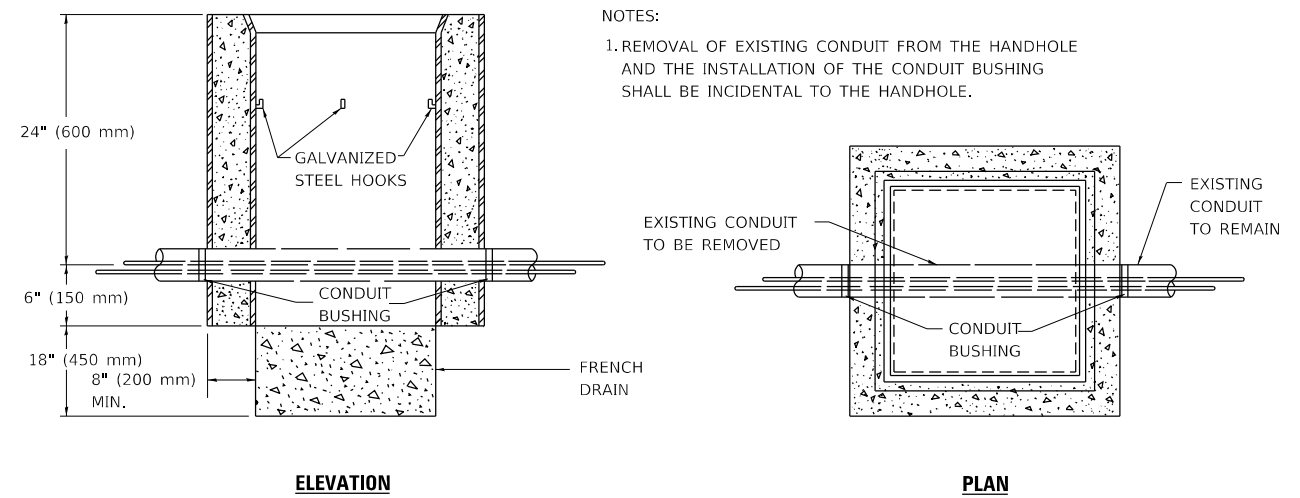
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE TYPICAL PAVEMENT MARKINGS

SCALE: NONE SHEET 2 OF 12 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1518	20-00288-04-TL	DUPAGE	32	22
TC-13		CONTRACT NO.	61H61	
ILLINOIS FED. AID PROJECT				

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	DRAWN -	REVISED -
PLOT SCALE - 50.0000 * / in.	CHECKED -	REVISED -
PLOT DATE - 3/4/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HANDHOLE TO INTERCEPT EXISTING CONDUIT
SCALE: SHEET 4 OF 12 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1518	20-00288-04-TL	DUPAGE	32	24
TS-03		CONTRACT NO. 61H61		
ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

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

MODEL: D:\ref\1...
 FILE: I:\M\A\...

USER NAME - [footem]	DESIGNED - IP	REVISED -	
	DRAWN - IP	REVISED -	
PLOT SCALE - 50.0000 * / in.	CHECKED - LP	REVISED -	
PLOT DATE - 3/4/2019	DATE - 9/29/2016	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

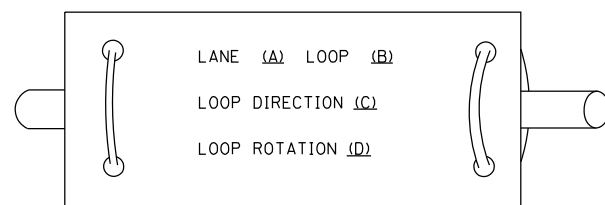
DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			
SCALE: NONE	SHEET 5 OF 12 SHEETS	STA. _____	TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1518	20-00288-04-TL	DUPAGE	32	25
TS-05				
			CONTRACT NO. 61H61	
ILLINOIS FED. AID PROJECT				

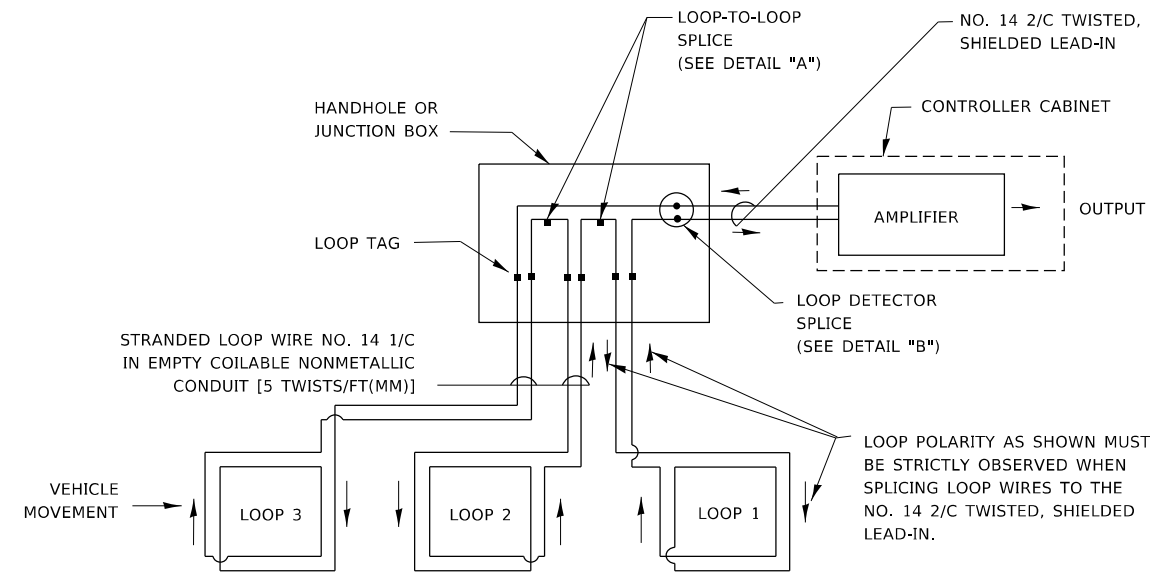
LOOP DETECTOR NOTES

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

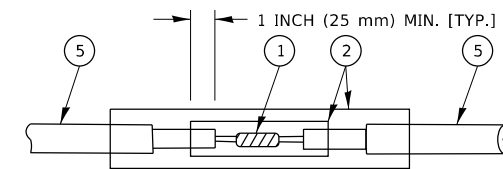


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

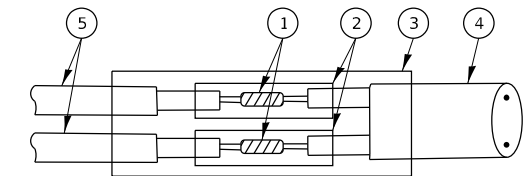


DETECTOR LOOP WIRING SCHEMATIC

- 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.

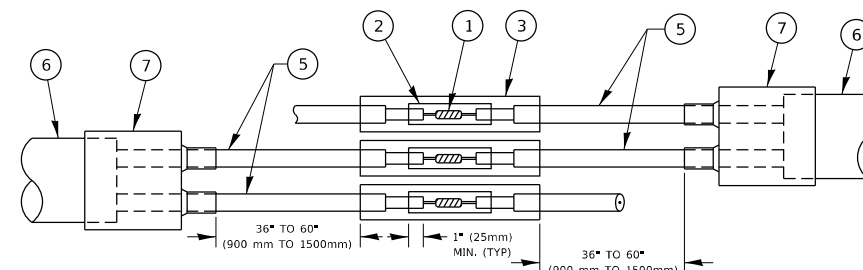


DETAIL "A"
LOOP-TO-LOOP SPLICE

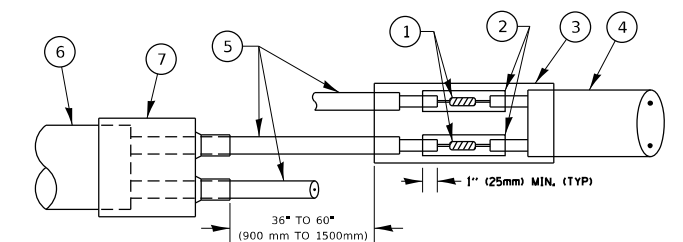


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

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 LENGHT 6" (150 mm), UNDERWATER GRADE.
- ④ NO. 14 2/C TWISTED, SHIELDED CABLE.
- ⑤ LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE. PREFORMED LOOP
- ⑥ XL POLYOLEFIN 2 CONDUCTOR
- ⑦ BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

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USER NAME - foatm	DESIGNED -	REVISED -
DRAWN -	REVISOR -	REVISION -
PLOT SCALE - 50.0000" / in.	CHECKED -	REVISOR -
PLOT DATE - 3/4/2019	DATE -	REVISION -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

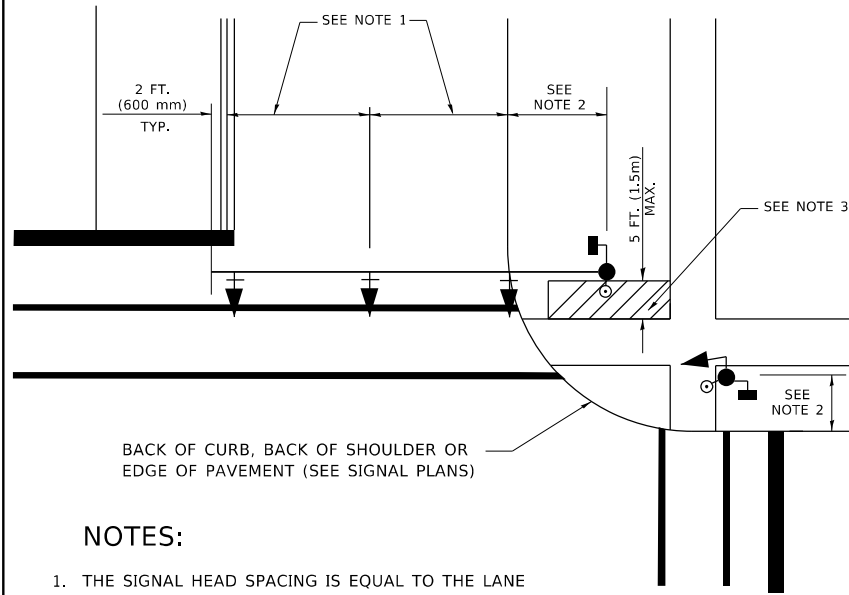
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 6 OF 12 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1518	20-00288-04-TL	DUPAGE	32	26
TS-05		CONTRACT NO. 61H61		
ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

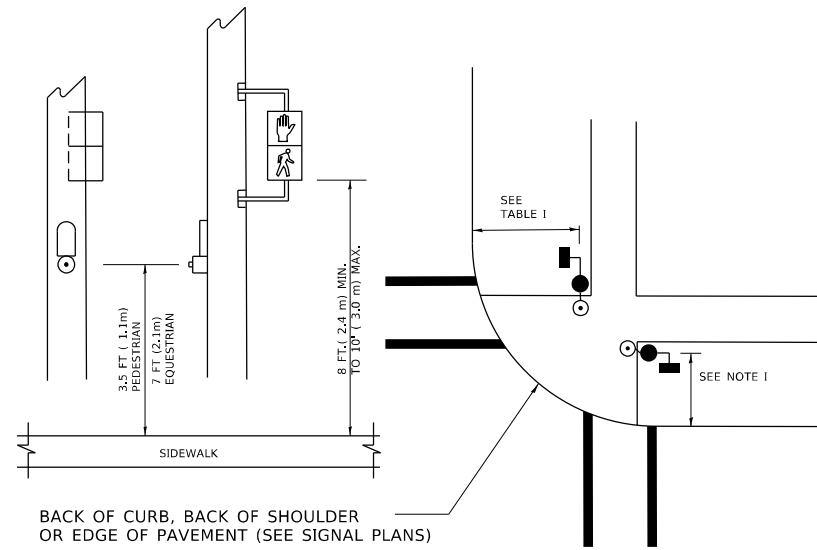
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

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

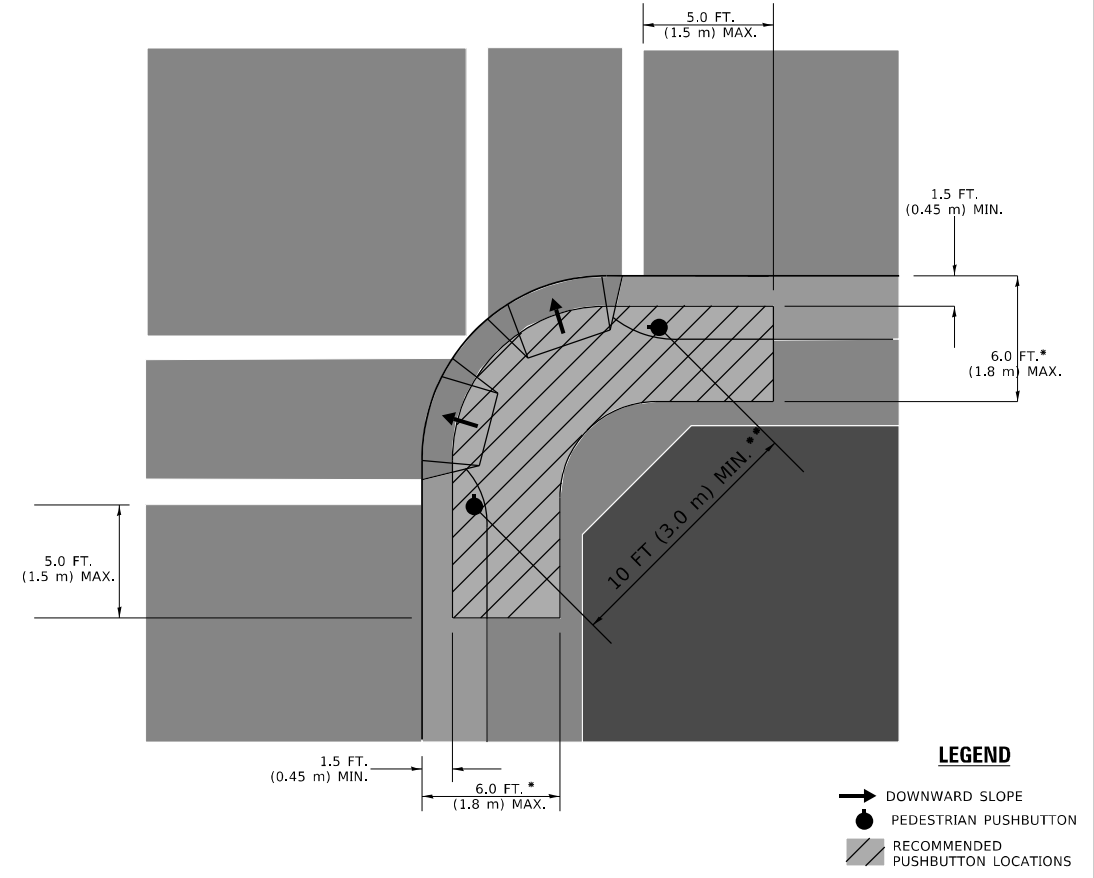
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS



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

NOTES:

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

TRAFFIC SIGNAL EQUIPMENT OFFSET

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

NOTES:

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

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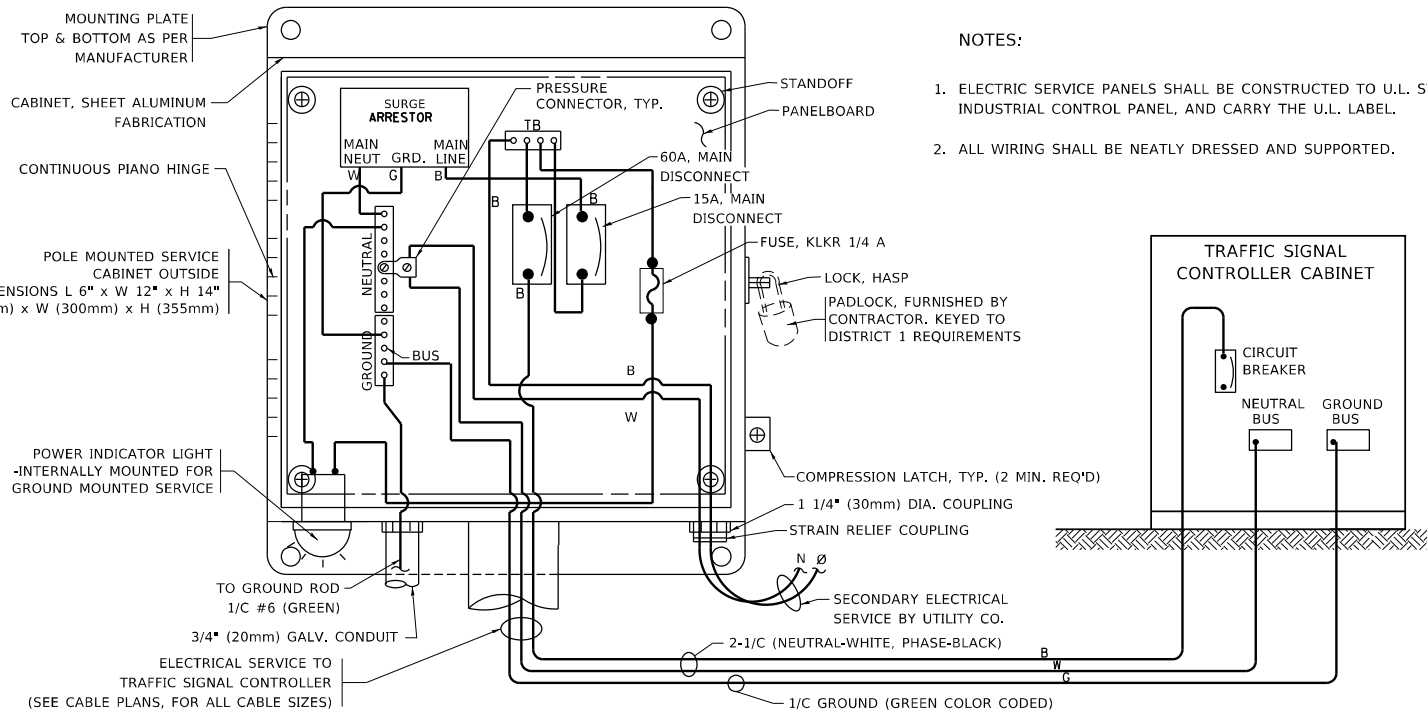
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PLOT DATE - 3/4/2019	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

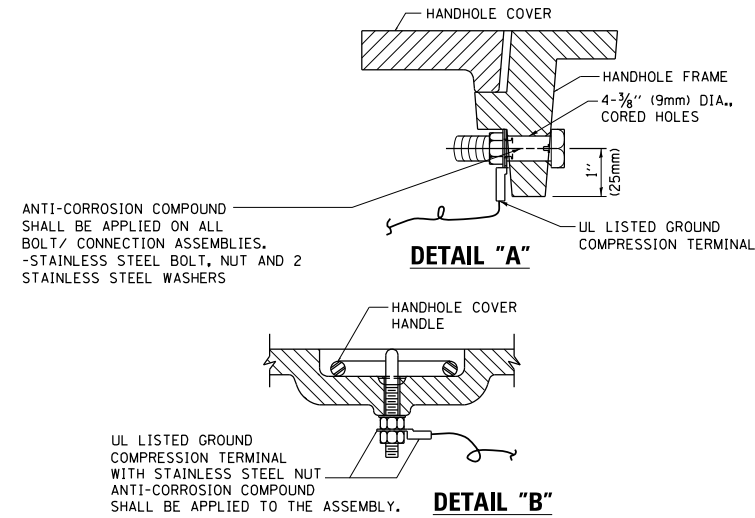
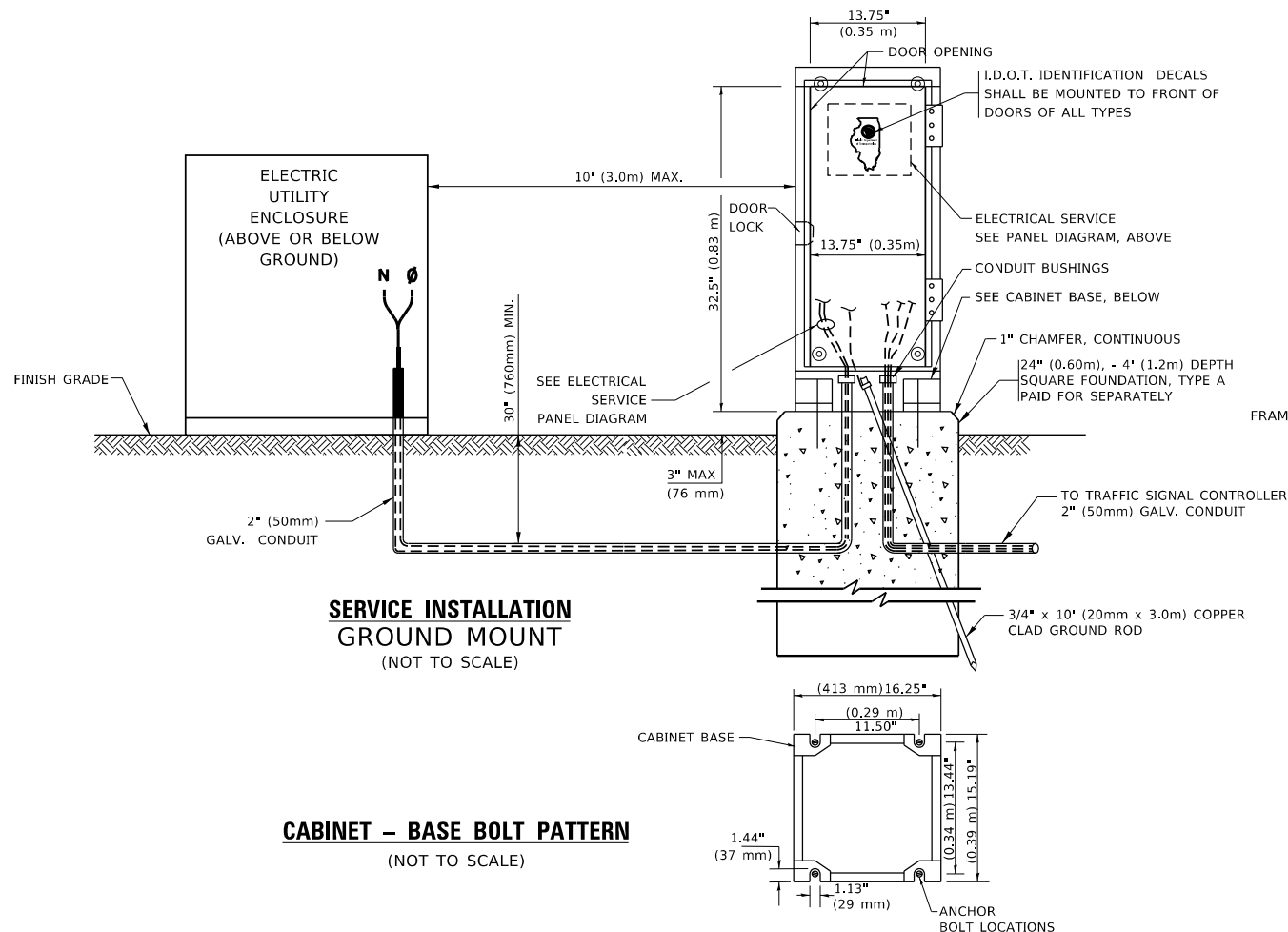
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 7 OF 12 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1518	20-00288-04-TL	DUPAGE	32	27
TS-05		CONTRACT NO.	61H61	
ILLINOIS FED. AID PROJECT				

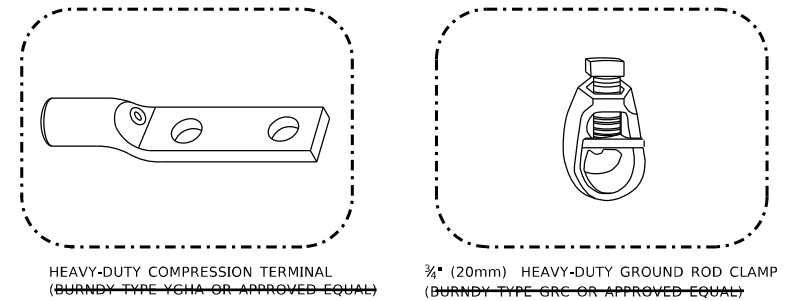
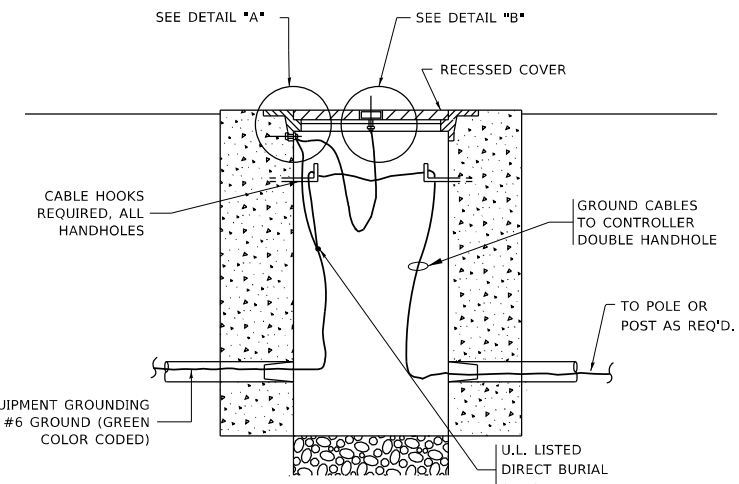


ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)



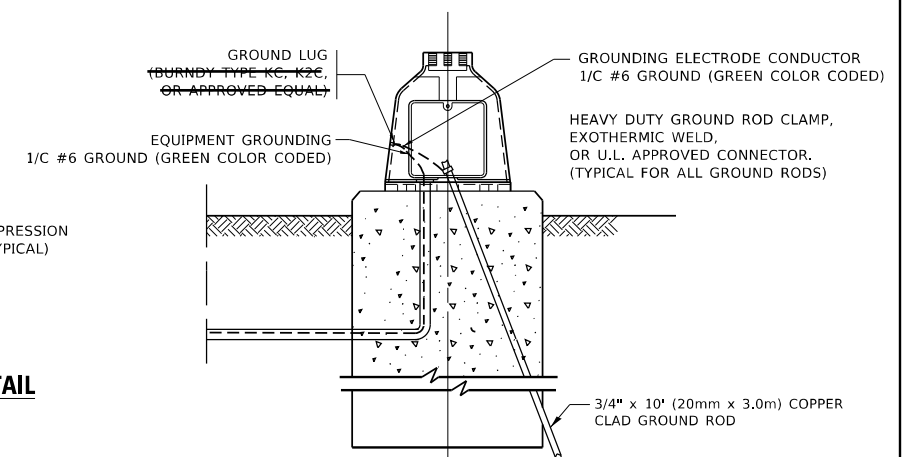
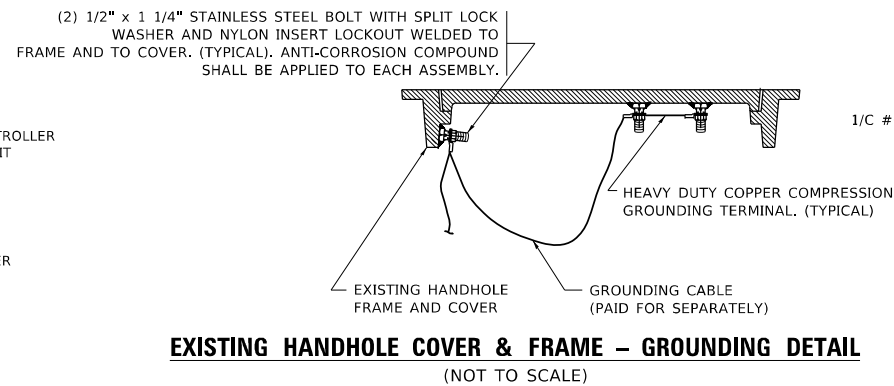
NOTES:
GROUNDING SYSTEM

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

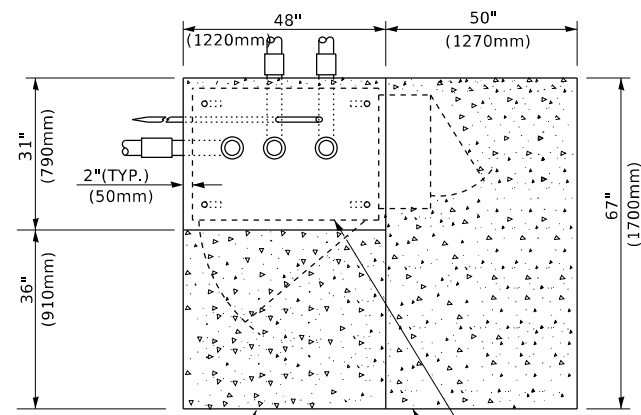


NOTES:

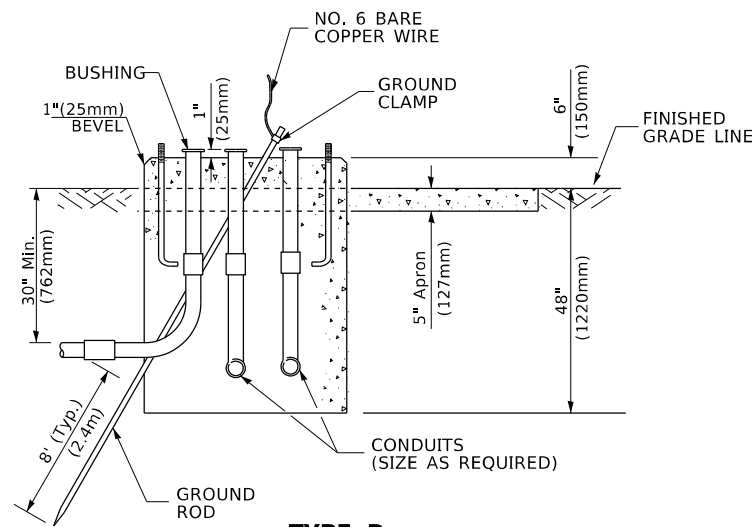
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES
- 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES
- 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES.
- 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



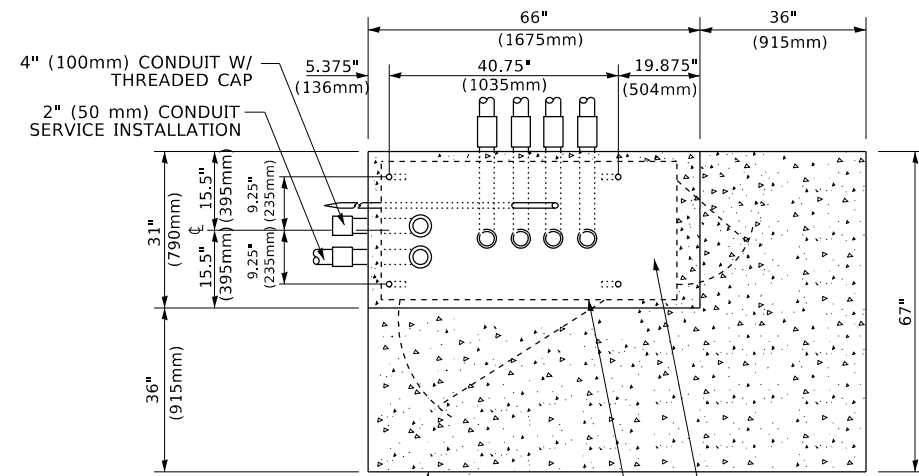
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TOP VIEW



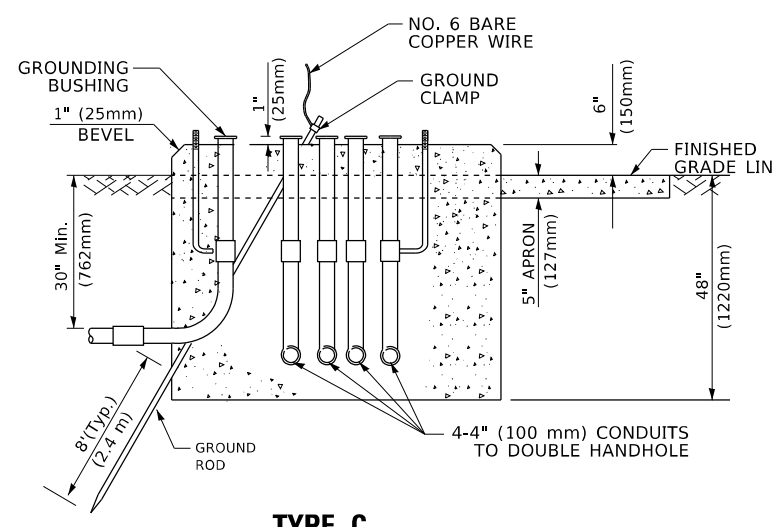
**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**



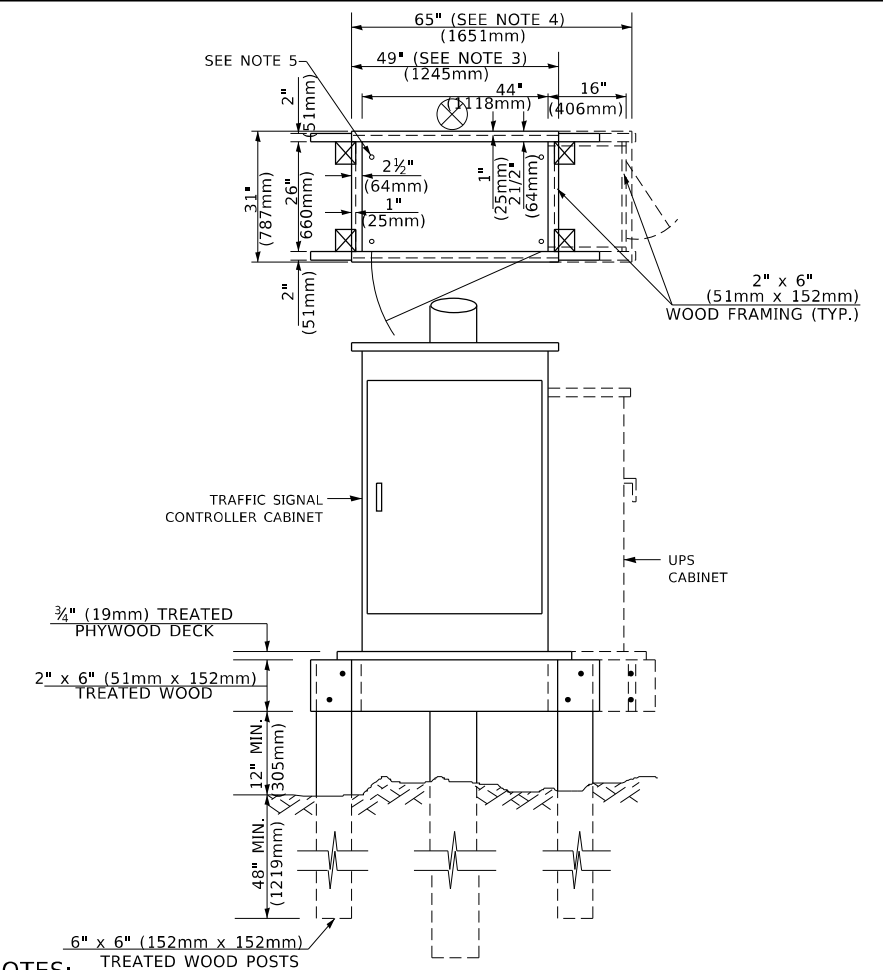
TOP VIEW

NOTE:

TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



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



NOTES:

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

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

DEPTH OF FOUNDATION

MAST ARM LENGTH	① FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m) and up to 85' (25.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

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

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

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 PROJECT: ...
 DATE: 3/4/2019

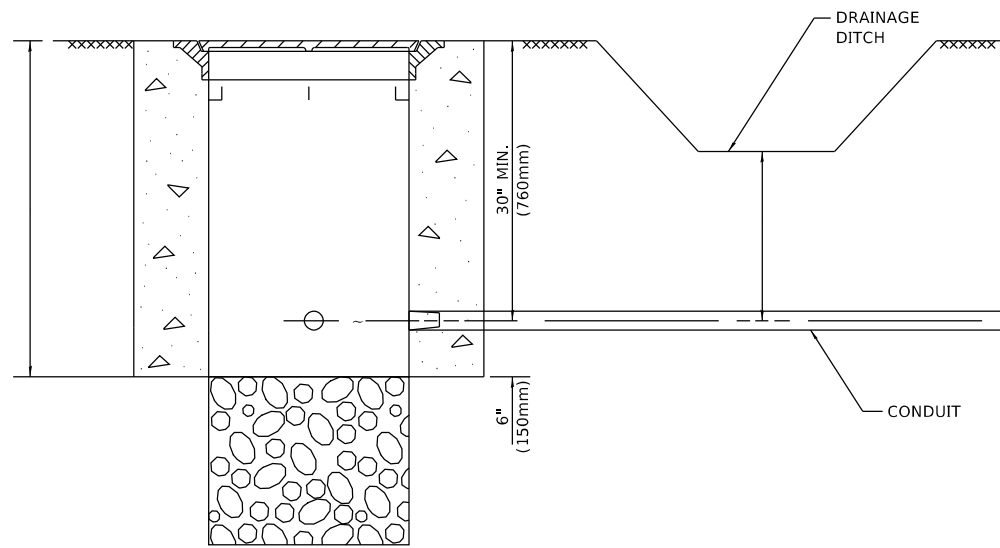
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= 50.0000 */ in.	-	-
PLOT DATE	DATE	REVISIONS
= 3/4/2019	-	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 9 OF 12 SHEETS STA. TO STA.

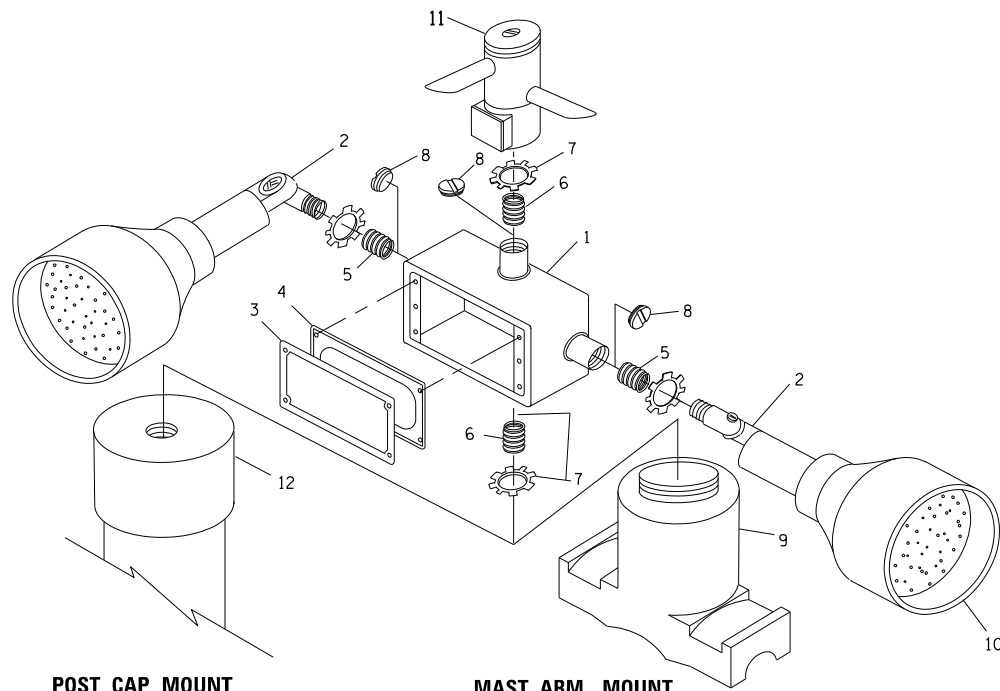
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1518	20-00288-04-TL	DUPAGE	32	29
TS-05			CONTRACT NO. 61H61	
ILLINOIS FED. AID PROJECT				



NOTES:

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

HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)

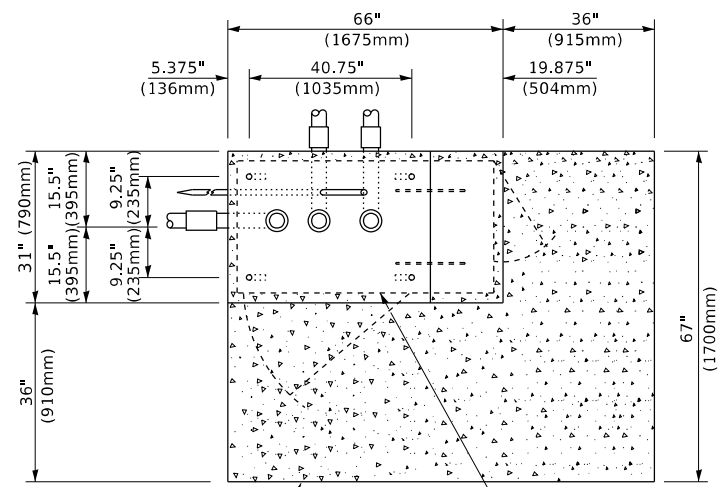


POST CAP MOUNT **MAST ARM MOUNT**
EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION
BEACON MOUNTING DETAIL

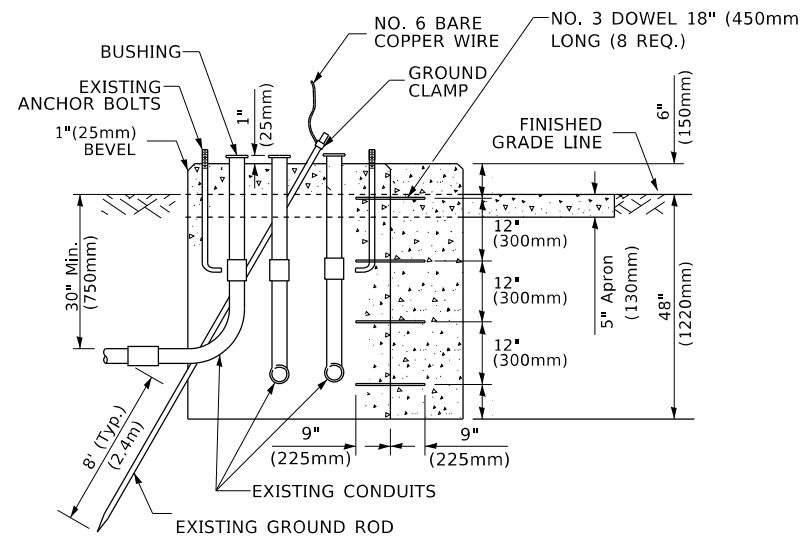
ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT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

NOTES:

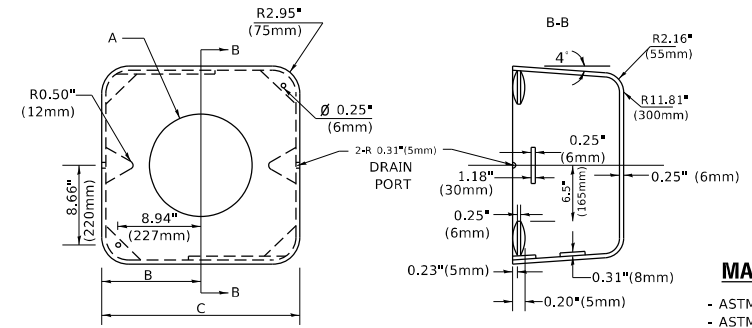
1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
ITEM #2- MULBERRY CON-O SHADE LAMP SHIELD OR EQUIVALENT
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE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

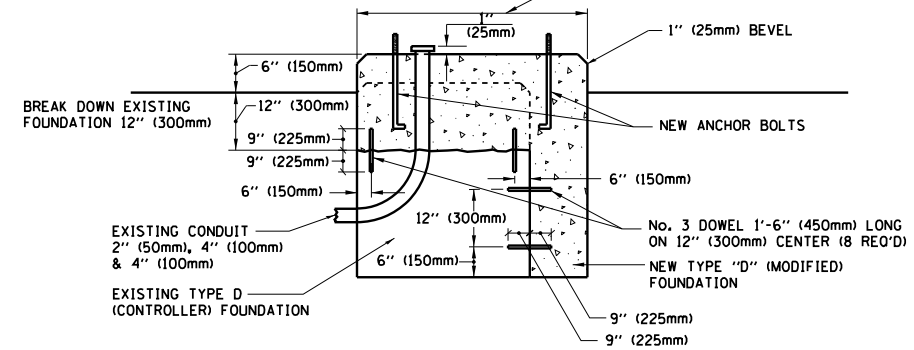
SHROUD

NOTES:

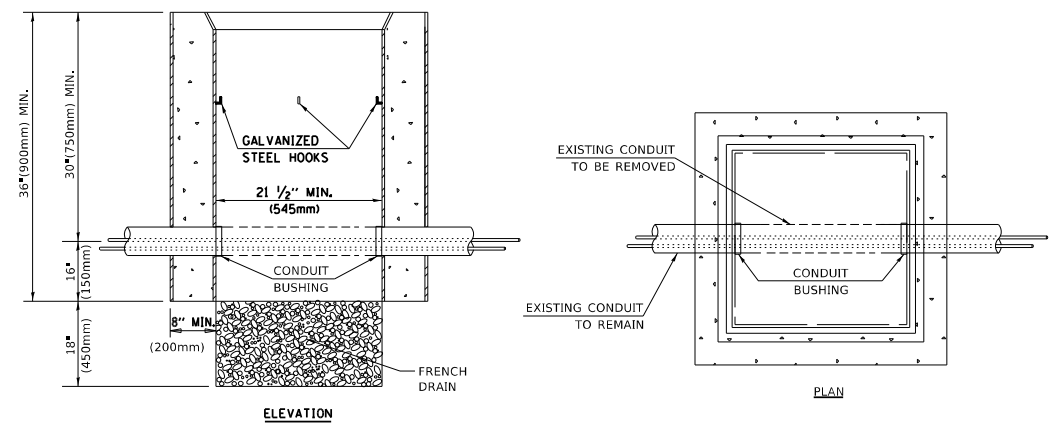
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

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

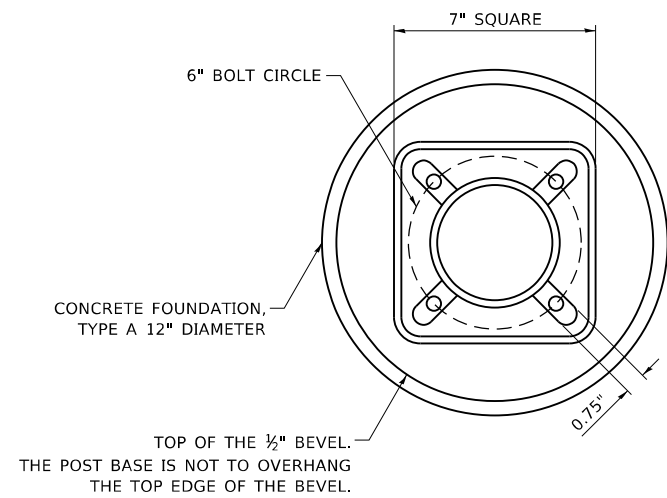
MODEL: D:\ref\... FILE: I:\state... PROJECT: I:\state... PROJECT: I:\state...

USER NAME - [footem]	DESIGNED -	REVISED -
PLOT SCALE - 50.0000 "/td> <td>DRAWN -</td> <td>REVISED -</td>	DRAWN -	REVISED -
PLOT DATE - 3/4/2019	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE			
STANDARD TRAFFIC SIGNAL DESIGN DETAILS			
SCALE: NONE	SHEET 10 OF 12 SHEETS	STA. TO STA.	

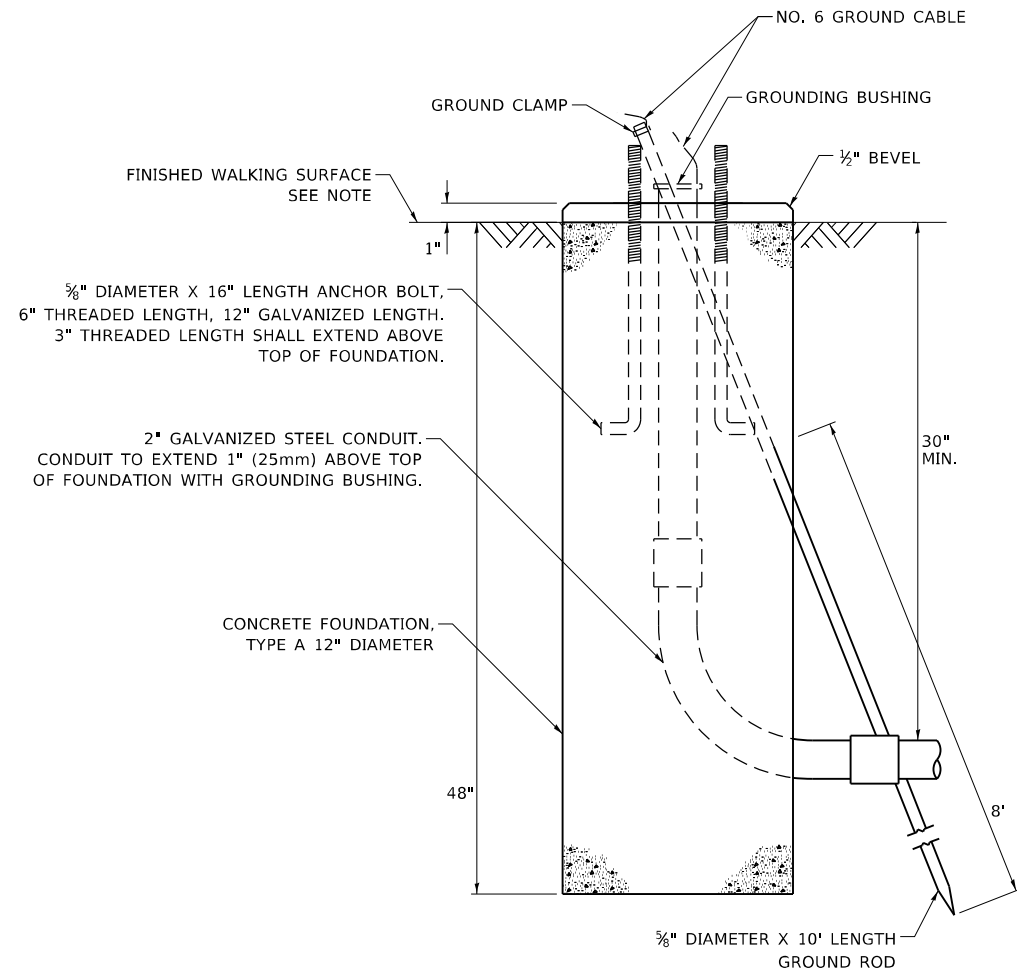
F.A. RTE. 1518	SECTION 20-00288-04-TL	COUNTY DUPAGE	TOTAL SHEETS 32	SHEET NO. 30
TS-05		CONTRACT NO. 61H61	ILLINOIS FED. AID PROJECT	



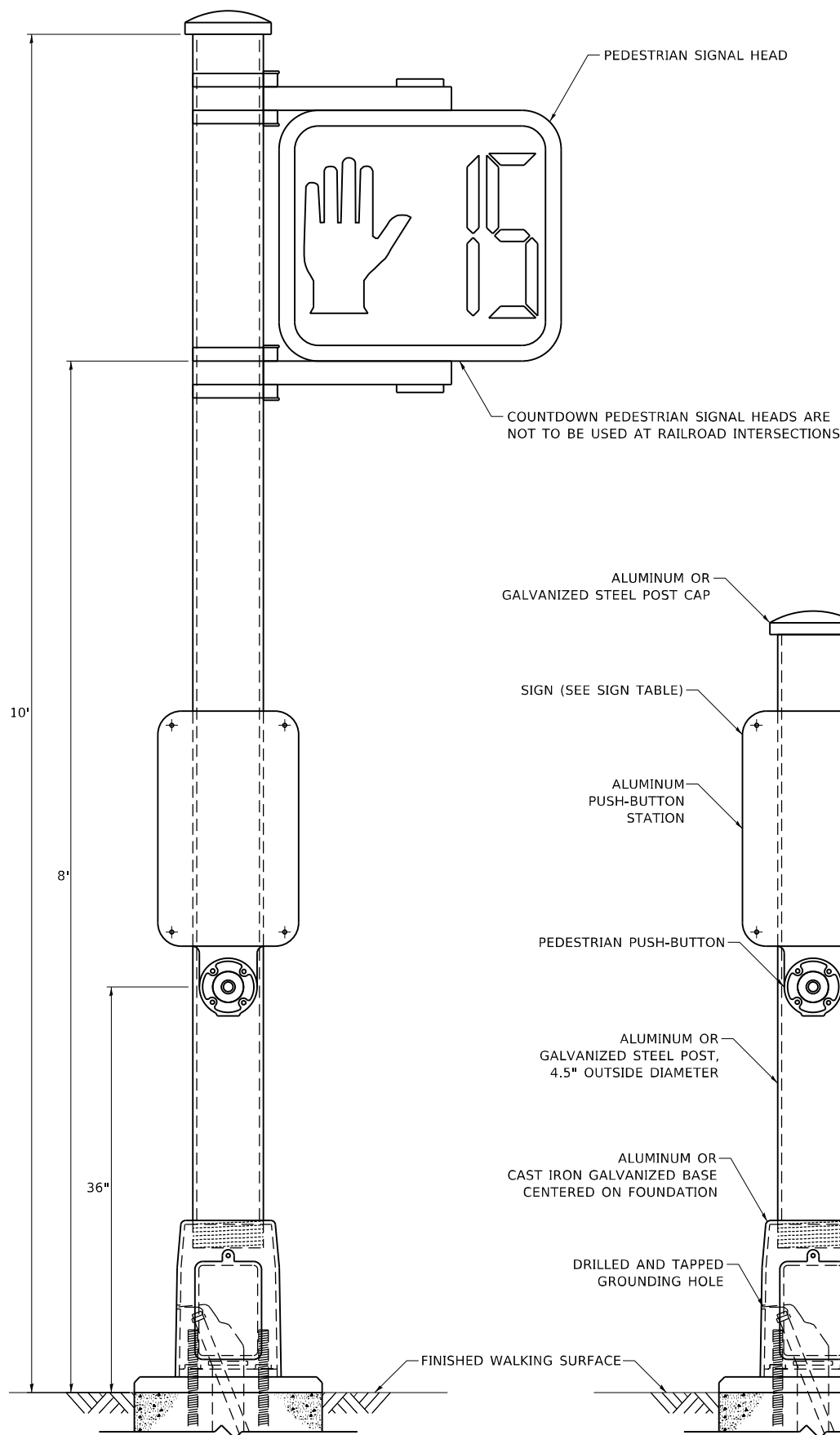
BOLT PATTERN

NOTE:

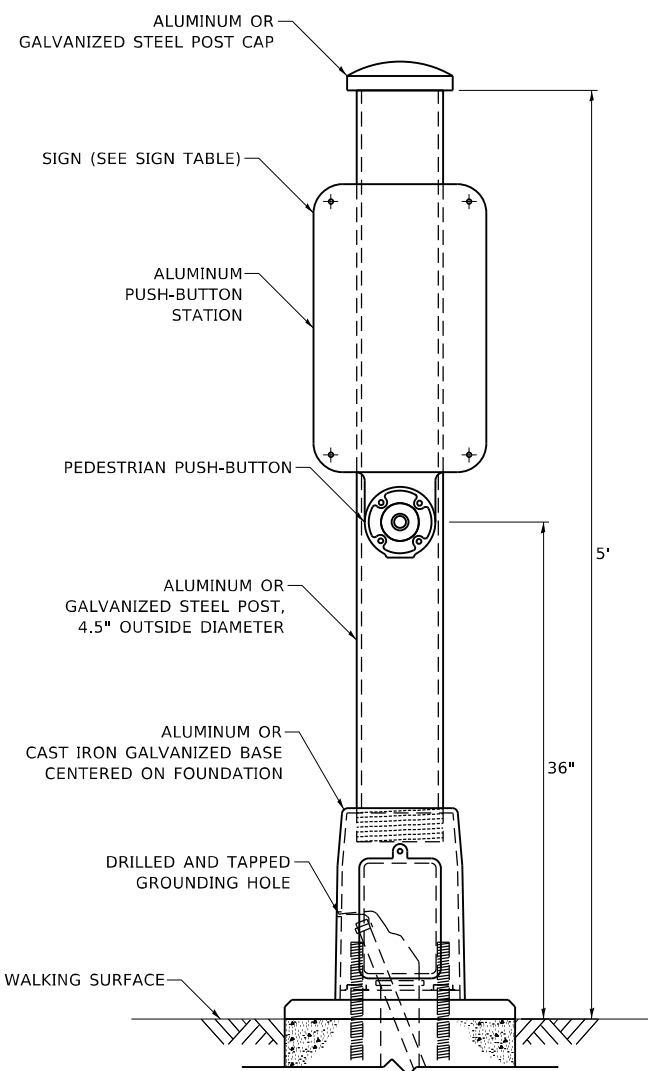
1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



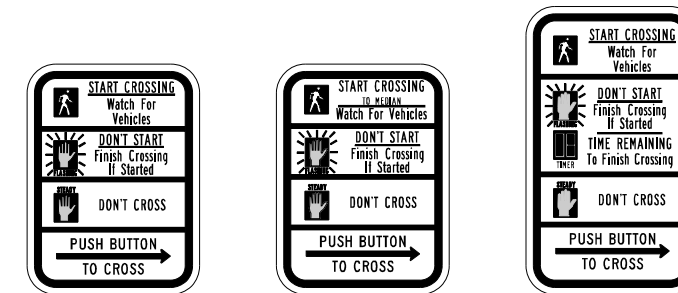
**CONCRETE FOUNDATION,
TYPE A 12-INCH DIAMETER**



PEDESTRIAN SIGNAL POST, 10 FT.



PEDESTRIAN SIGNAL POST, 5 FT.



R10-3b

R10-3d

R10-3e

SIGN TABLE

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

NOTES:

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

MODEL: D:\dtd\11_01\Other\pedestrian\post\pedestrianSignalPost.dwg; User: jing; Date: 11/17/2020

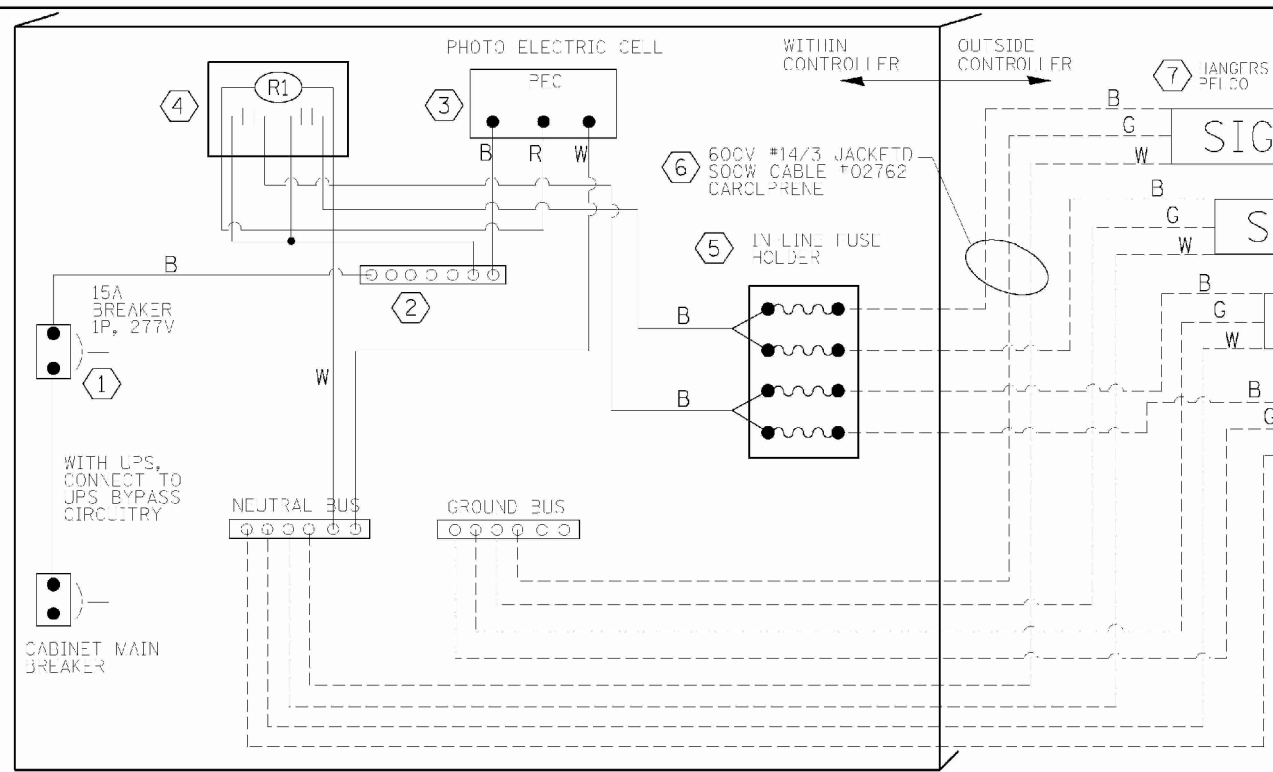
USER NAME	plascencia	DESIGNED	IP	REVISED	10/15/2020
DRAWN	IP	CHECKED	LP	REVISID	
PLOT SCALE	100.0000' / in.	DATE	10/15/2018	REVISID	
PLOT DATE	11/17/2020				

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NTS SHEET NO. 11 OF 12 SHEETS STA. TO STA.

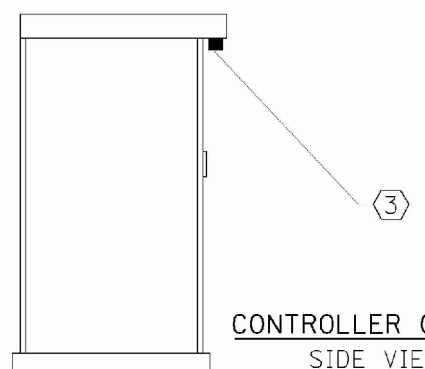
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1518	20-00288-04-TL	DUPAGE	32	31
TS-05		CONTRACT NO. 61H61		
ILLINOIS FED. AID PROJECT				



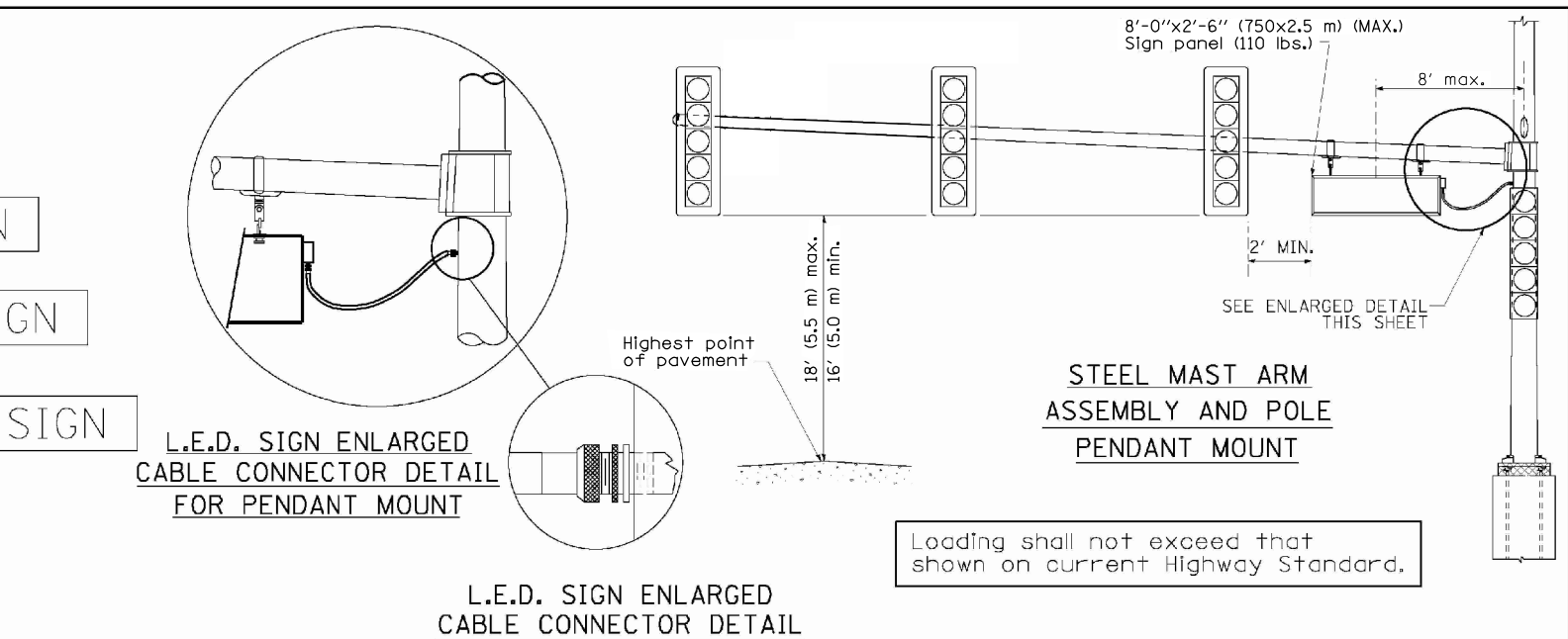
LED SIGN WIRING DETAIL

BILL OF MATERIALS

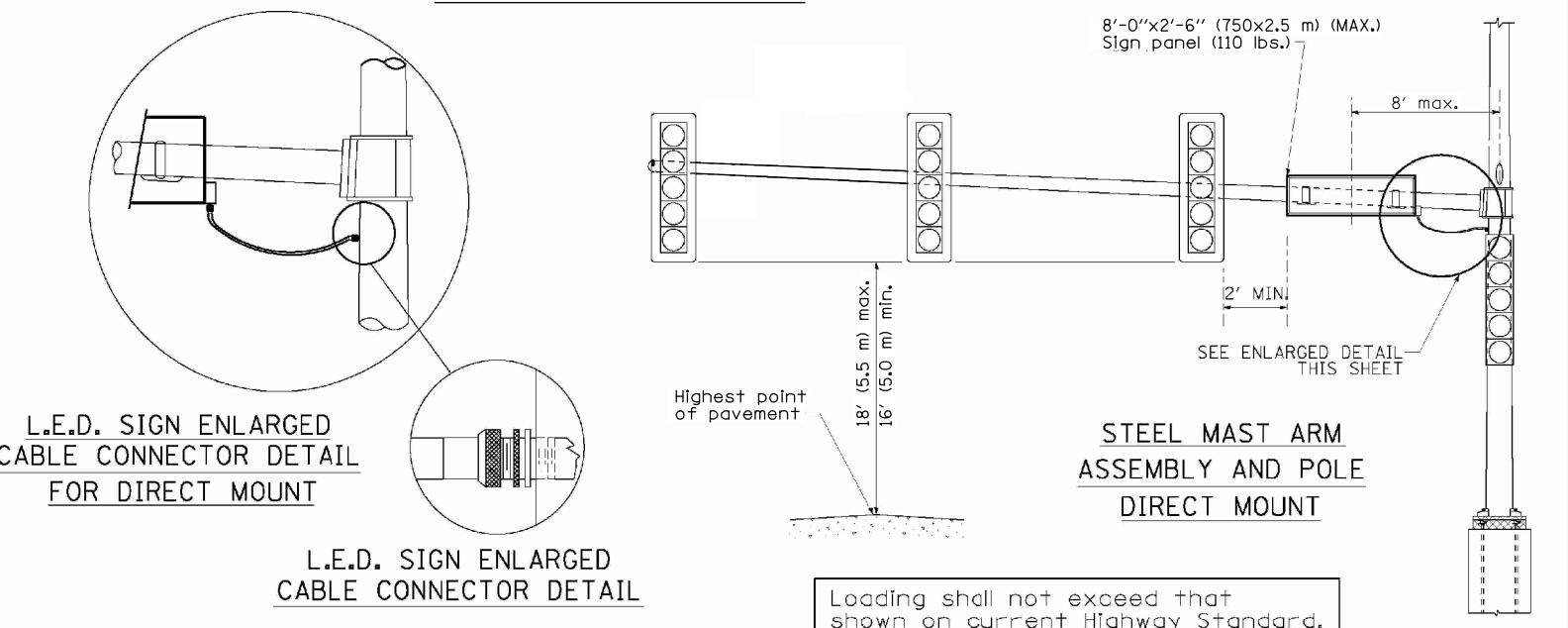
DESCRIPTION	MANUFACTURER	MODEL	NOTES
① CIRCUIT BREAKER		15 AMPERE	Molded case, Thermal Mag. min. R.I. of 14K R.M.S. symmetrical ampere at 277V.
② TERMINAL BLOCK	MARATHON	1502 DJSV	
③ PHOTO ELECTRIC CONTROL	FISHER PIERCE	B124-1.5-07762	
④ CONTROL RELAY	SQUARE D	8501X020V02	BOLT ON W/SCREW TERMINAL
⑤ INLINE FUSE HOLDER WITH 5 AMP FUSE	BUSSMAN	S-8000 BK/S-8-3-4-R	
⑥ ELECTRIC CABLE, NO. 14, 3/C (BLACK, WHITE, GREEN)	CAROLPRENE/SOOW	02762	
⑦ SIGN MOUNTING HARDWARE	PELCO	Pendant (SE-5015) Direct mount (AB-0104-L-SP) Additional sign stiffeners may be required for direct mounted signs.	S.S. HARDWARE



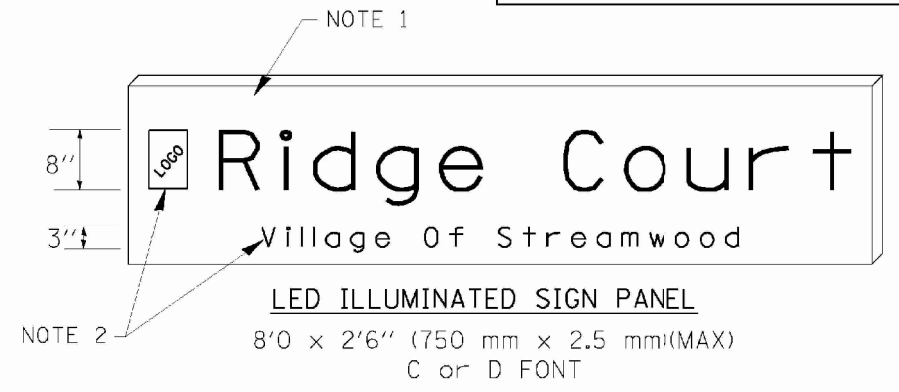
CONTROLLER CABINET SIDE VIEW



STEEL MAST ARM ASSEMBLY AND POLE PENDANT MOUNT



STEEL MAST ARM ASSEMBLY AND POLE DIRECT MOUNT



LED ILLUMINATED SIGN PANEL
8'0 x 2'6" (750 mm x 2.5 mm)(MAX)
C or D FONT

NOTES:

- SIGNS SHALL BE SINGLE SIDED FOR DIRECT MOUNT AND DOUBLE SIDED FOR PENDANT MOUNT.
- CERTAIN ADDITIONAL INFORMATION MAY BE ALLOWED ON THE SIGN. VERIFY WITH ENGINEER.
- SIGNS SHALL NOT BE ENERGIZED WHEN TRAFFIC SIGNALS ARE POWERED BY THE UPS. THE SIGNS SHALL BE CONNECTED TO THE UPS BYPASS CIRCUITRY.
- ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED:
R = RED BL = BLUE W = WHITE
B = BLACK Y = YELLOW G = GREEN
- ALL 120 VOLT SYSTEM AND ALL CONTROL WIRING SHALL BE #14AWG STRANDED UNLESS OTHERWISE INDICATED.
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.