

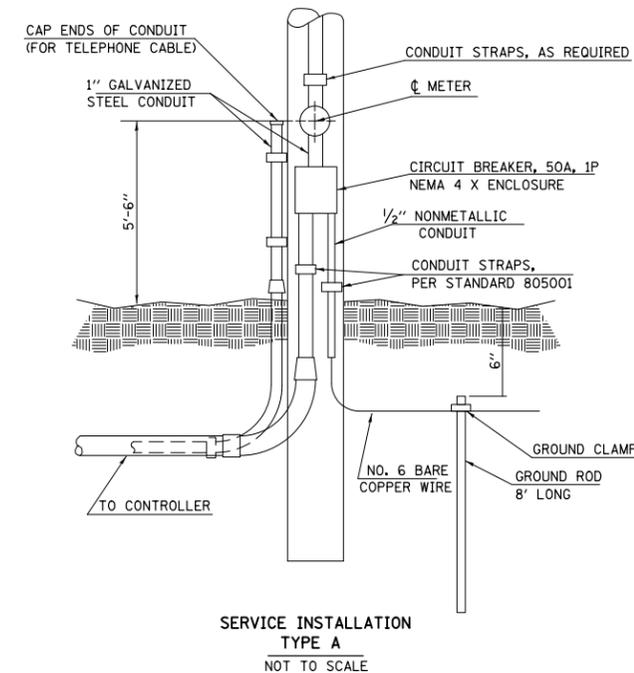
ELECTRICAL GENERAL NOTES

1. ALL VEHICLE AND PEDESTRIAN SIGNAL HEADS SHALL HAVE 12" SECTIONS. MOUNTING HARDWARE SHALL BE UNPAINTED ALUMINUM. ALL BOLTS, SCREWS, NUTS AND WASHERS SHALL BE STAINLESS STEEL. ANTI-SEIZE PASTE COMPOUND SHALL BE USED ON ALL MOUNTING HARDWARE FIELD CONNECTIONS.
2. BACKPLATES SHALL BE ABS PLASTIC.
3. CONTROLLER EQUIPMENT SHALL BE COMPATIBLE WITH EXISTING DISTRICT ECONOLITE TRAFFIC SIGNAL MONITORING EQUIPMENT AND SOFTWARE.
4. THE CONTROLLER CABINET SHALL BE UNPAINTED ALUMINUM. ANCHOR BOLTS, NUTS, AND WASHERS REQUIRED WITH TYPE D FOUNDATION SHALL BE INCLUDED IN THE PAY ITEM, "FULL -ACTUATED CONTROLLER AND TYPE IV CABINET". THE CONTRACTOR SHALL INSTALL FOUR (4) GROUND RODS (3/4" X 12') AND #6 A.W.G. BARE COPPER GROUND CONDUCTOR IN THE CONTROLLER FOUNDATION AS PER SPECIAL PROVISION, "CONCRETE FOUNDATION TYPE D".
5. THE LOCATION OF MAST ARM SUPPORTS SHALL BE APPROVED BY THE ENGINEER BEFORE FOUNDATIONS ARE CONSTRUCTED. MAST ARM POLES SHALL BE LOCATED A MINIMUM OF 10 FEET FROM THE EDGE OF PAVEMENT OR 2 FEET FROM THE EDGE OF SHOULDER, WHICHEVER DISTANCE IS GREATER. IN CURBED SECTIONS, THE MAST ARM POLES SHALL BE LOCATED A MINIMUM OF 5 FEET FROM THE FACE OF THE CURB. THESE DISTANCES ARE TO THE NEAR FACE OF THE MAST ARM POLE.
6. ALL TRAFFIC SIGNAL CABLES SHALL BE #14 AWG STRANDED COPPER UNLESS OTHERWISE SPECIFIED. TERMINAL ENDS SHALL HAVE CRIMPED-ON RING TONGUE CONNECTORS.
7. THE LOCATION OF ALL DETECTOR LOOPS SHALL BE APPROVED BY THE ENGINEER BEFORE ANY SLOTS ARE SAWED IN THE PAVEMENT. DETECTOR LOOPS MUST BE INSTALLED AFTER MILLING AND PRIOR TO THE INSTALLING THE FINAL RESURFACING COURSE.
8. DETECTOR LOOP LEAD-IN SPLICES SHALL BE MADE IN A HANDHOLE PER SECTION 873 OF THE STANDARD SPECIFICATIONS. CONDUCTORS SHALL BE SPLICED IN A RIGID MOLD FILLED WITH NON-HARDENING EPOXY FILLER. ROSIN-CORE SOLDER SHALL BE USED.
9. CALL DELAY SHALL NOT FUNCTION WHEN THE RELATED PHASES ARE IN THE GREEN MODE.
10. CALL CARRY-OVER SHALL FUNCTION ONLY WHEN THE RELATED PHASES ARE IN THE GREEN MODE.
11. ALL INDUCTIVE LOOP DETECTORS SUPPLIED FOR THIS PROJECT SHALL HAVE THE CAPACITY OF OPERATING WITH BOTH DELAY AND EXTENSION MODES ACTIVE, IF A TIME SETTING IS PROGRAMMED. THEY SHALL BE RACK MOUNTED.
12. ALL HANDHOLES SHALL BE CAST-IN-PLACE PORTLAND CEMENT CONCRETE (PER ARTICLE 814.03(a)). THE CAST IN PLACE LEGEND IN THE COVER SHALL BE "TRAFFIC SIGNALS". SLOPE HANDHOLE COVERS TO MATCH PROPOSED GRADE ELEVATIONS.
13. ESTIMATED DEPTHS OF THE 30" CONCRETE FOUNDATIONS FOR THE MAST ARM SUPPORT POLES ARE AS FOLLOWS:
 N-E QUAD: 13'-6" DEEP
 S-W QUAD: 10'-0" DEEP
 S-E QUAD: 13'-6" DEEP

 FINAL DEPTHS WILL BE DETERMINED BY THE DEPARTMENT FROM THE SOIL BORING DATA.
14. LEAD -IN CONDUITS ARE INSTALLED FROM THE EDGE OF THE PAVEMENT TO THE CENTER TO CENTER DISTANCE BETWEEN THE CONDUITS, WHERE TWO OR MORE LOOP NEAREST HANDHOLE, SHALL BE SIX INCHES MINIMUM AT THE EDGE OF PAVEMENT.
15. THE CONTRACTOR SHALL FABRICATE, DELIVER AND INSTALL TWO (2) STREET NAME SIGNS AT THE SPECIFIED LOCATIONS. THE SIGNS AND INSTALLATION SHALL CONFORM TO SECTION 720 OF THE STANDARD SPECIFICATIONS AND STANDARDS 720016 AND 720001.
16. THE CONTRACTOR SHALL INSTALL THE STREET NAME SIGNS ON THE MAST ARMS AS FOLLOWS:
 ONE SIGN, NE QUAD., VISIBLE TO NB TRAFFIC
 ONE SIGN, SW QUAD., VISIBLE TO SB TRAFFIC
17. GROUNDING CONDUCTOR SHALL BE TYPE XLP, NO.6 A.W.G., STRANDED COPPER, GREEN COLOR CODED AND IN ACCORDANCE WITH STANDARD 873001 AND SECTION 873 OF THE STANDARD SPECIFICATIONS.
18. THE DESIRABLE LATERAL DISTANCE BETWEEN WATER MAIN, FIRE HYDRANT ETC. WITH ELECTRICAL UNDERGROUND CONDUITS SHALL BE MINIMUM EIGHTEEN (18") INCHES FACE TO FACE .

TRAFFIC SIGNALS LEGEND

- PVCC POLYVINYL CHLORIDE CONDUIT
- PROPOSED SIGNAL HEAD WITH BACKPLATE, MAST ARM MOUNTED
- PROPOSED HANDHOLE
- PROPOSED DOUBLE HANDHOLE
- PROPOSED DETECTOR LOOP
- PROPOSED CONTROLLER
- PROPOSED UNDERGROUND CONDUIT
- PROPOSED STREET NAME SIGN/TRAFFIC SIGN
- PROPOSED SERVICE INSTALLATION
- PROPOSED SIGNAL HEAD, BRACKET MOUNTED ON POST



FILE NAME =	USER NAME = prestonme	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MOCKINGBIRD ROAD TRAFFIC SIGNAL PLAN GENERAL NOTES, DETAIL AND LEGEND	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pw\work\p\dot\prestonme\d0287304\d0287304.dwg	76F47-sh-t-TS.dgn	DRAWN -	REVISED -			42	102-1RS-3, 102-TS	WASHINGTON	46	36
	PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 76F47				
	PLOT DATE = 10/8/2013	DATE -	REVISED -			FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
					SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	