ELECTRICAL GENERAL NOTES

- 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 HARDWARF FIELD CONNECTIONS.
- 2. BACK PLATES SHALL BE ABS PLASTIC.
- 3. THE CONTROLLER CABINET SHALL BE UNPAINTED ALUMINUM.
- 4. 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.
- 5. ALL TRAFFIC SIGNAL CABLES SHALL BE #14 A.W.G. STRANDED COPPER UNLESS OTHERWISE SPECIFIED. TERMINAL ENDS SHALL HAVE CRIMPED- ON RING TONGUE CONNECTORS.
- 6. THE LOCATION OF ALL DETECTOR LOOPS SHALL BE APPROVED BY THE ENGINEER BEFORE ANY SLOTS ARE SAWED IN THE PAVEMENT.
- 7. 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.
- 8. CALL DELAY SHALL NOT FUNCTION WHEN THE RELATED PHASES ARE IN THE GREEN MODE.
- 9. CALL CARRYOVER SHALL FUNCTION ONLY WHEN THE RELATED PHASES ARE IN THE GREEN MODE.
- 10. 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.
- 11. ALL HANDHOLES SHALL BE CAST-IN-PLACE PORTLAND CEMENT CONCRETE (PER ARTICLE 814.03(b)). THE CAST IN PLACE LEGEND IN THE COVER SHALL BE "TRAFFIC SIGNALS".
- 12. ACTUAL DEPTHS OF THE CONCRETE FOUNDATIONS FOR THE MAST ARM SUPPORT POLES ARE AS FOLLOWS:

MAIN STREET

CLAY STREET

NE CORNER, 52' M.A.: 17'-6" DEEP, 36" DIA. (TS14)
NW CORNER, 26' M.A.: 13'-6" DEEP, 30" DIA. (TS15)
SE CORNER, 52' M.A.: 15' DEEP, 36" DIA.
SW CORNER, 40' M.A.: 14'-0" DEEP, 36" DIA. (TS11)
SW CORNER, 40' M.A.: 14'-0" DEEP, 36" DIA. (TS11)
SW CORNER, 40' M.A.: 14'-0" DEEP, 36" DIA. (TS15)
SW CORNER, 52' M.A.: 18'-6" DEEP, 36" DIA. (TS7)

THESE DEPTHS HAVE BEEN DETERMINED BY THE DEPARTMENT FROM THE SOIL BORING DATA.

- 13. CENTER TO CENTER DISTANCE BETWEEN THE CONDUITS, WHERE TWO OR MORE LOOP LEAD -IN CONDUITS ARE INSTALLED FROM THE EDGE OF THE PAVEMENT TO THE NEAREST HANDHOLE, SHALL BE SIX INCHES MINIMUM AT THE EDGE OF PAVEMENT.
- 14. ABANDON EXISTING CONDUIT AND CABLES IN PLACE.
- 15. THE BOTTOM OF THE HOUSING OF A VEHICLE FACE SHALL BE AT LEAST 8' ABOVE THE SIDEWALK.
- 16. ANCHOR BOLTS, NUTS, AND WASHERS REQUIRED WITH TYPE D FOUNDATION SHALL BE INCLUDED IN THE PAY ITEM, "FULL -ACTUATED CONTROLLER AND TYPE IV CABINET".
- 17. 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".
- 18. THE CONDUIT QUANTITIES SHOWN ON THE PLANS ARE PRIOR TO CONSTRUCTION OF PROPOSED PAVEMENT AND SHOULDER. THE CONTRACTOR AT HIS/HER OPTION MAY UTILIZE CONDUIT PUSHED AND/OR DIRECTIONAL BORING INSTEAD OF TRENCH AND BACK FILL FOR PROPOSED CONDUIT INSTALLATION AT NO ADDITIONAL COST TO THE DEPARTMENT.
- 19. AN UNDERGROUND CABLE MARKING TAPE SHALL BE INSTALLED WITH ALL TRENCH AND BACK FILL FOR ELECTRICAL WORK IN ACCORDANCE WITH THE ARTICLES 815.03 (d) AND 1066.05 OF THE STANDARD SPECIFICATIONS.
- 20. ALL DETECTOR LOOPS SHALL BE INSTALLED IN THE BINDER COURSE.
- 21. 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.

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TRAFFIC SIGNALS LEGEND

GSC	GALVANIZED STEEL CONDUIT
PVCC	POLYVINYL CHLORIDE CONDUIT
○- ->	EXISTING SIGNAL POST
O+⊳	EXISTING SIGNAL POST WITH BACK PLATE
<u>a </u>	EXISTING TRAFFIC SIGNAL MAST ARM
	EXISTING HANDHOLE
	EXISTING DOUBLE HANDHOLE
	EXISTING DETECTOR LOOP
\boxtimes	EXISTING CONTROLLER
O	EXISTING STREET NAME SIGN/TRAFFIC SIGN
	EXISTING SERVICE INSTALLATION
-[]	EXISTING SIGNAL HEAD, PEDESTRIAN
	EXISTING PEDESTRIAN PUSH BUTTON DETECTOR
жасаюных можемовского	EXISTING UNDER GROUND CONDUIT
• + +	PROPOSED SIGNAL HEAD WITH BACK PLATE, MAST ARM MOUNTED
	PROPOSED HANDHOLE
	PROPOSED DOUBLE HANDHOLE
	PROPOSED DETECTOR LOOP
B	PROPOSED CONTROLLER
	PROPOSED PEDESTRIAN PUSH BUTTON DETECTOR
-	PROPOSED SIGNAL HEAD, PEDESTRIAN
	PROPOSED CONDUIT: "T" TRENCH, "P" PUSH, SIZE SPECIFIED
	PROPOSED STREET NAME SIGN/TRAFFIC SIGN
-	PROPOSED SERVICE INSTALLATION
•-	PROPOSED SIGNAL POST
	PROPOSED SIGNAL HEAD W/O BACK PLATE

PROPOSED SIGNAL HEAD W/ WITH BACK PLATE

SCALE: NONE

	CLEOTRIAL OFFICE AND LEGELD		F.A.P SECTION			COUNTY	TOTAL	SHEE NO.
ELECTRICAL GENERAL NOTES AND LEGEND		600	1.	60-(30,3	1,128) -N-1	MADISON	152	91
						CONTRACT	NO.	76D54
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