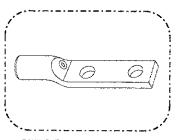


GROUNDING SYSTEM

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



HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)

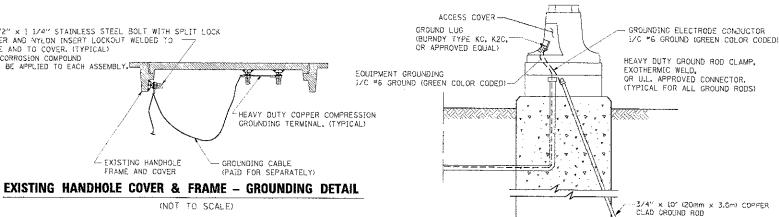


¾" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EQUAL)

x (0' (20mm x 3.0m) COPPER

TOTAL SHEE

- 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 SEACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



MAST ARM POLE / POST-GROUNDING DETAIL

TO TRAFFIC SIGNAL CONTROLLER (76 mm) (50mm) GALV. CONDUIT 2" (50mm) GALV. CONDUIT <u>Caracteria de la composição de la compo</u> SERVICE INSTALLATION -3/4" × 10' (20mm × 3.0m) COPPER CLAD GROUND ROD GROUND MOUNT (413 mm) 16.25" (0.29 m) CABINET BASE --

BOLT LOCATIONS

CABINET - BASE BOLT PATTERN (NOT TO SCALE)

DESIGNED DAD REVISED JSSR NAME = jattana ВСК REVISED FILE NAME = 090071-sig_det03.dgn DRAWN PLOT SCALE = CHECKED DAD REVISED PLCT DATE = 7/23/2012 10-28-09 REVISED

MICHENRY COUNTY **DIVISION OF TRANSPORTATION**

SCALE:

FRAME AND TO COVER. (TYPICAL)

SHALL BE APPLIED TO EACH ASSEMBLY.

ANTI-CORROSION COMPOUND

DISTRICT ONE SECTION COUNTY 3860 09-00372-00-PW MCHENRY 252 STANDARD TRAFFIC SIGNAL DESIGN DETAILS CONTRACT NO. 63633 SHEET NO. 3 OF 6 SHEETS STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AND PROJECT

HRGreen

HRGreen.com