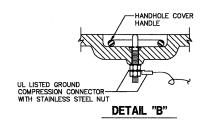


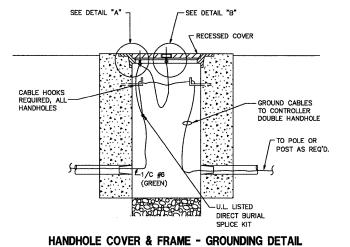
13.75" (0.35 m) DOOR OPENING I.D.O.T. IDENTIFICATION DECALS SHALL BE MOUNTED TO FRONT OF DOORS OF ALL TYPES 10' (3.0m) MAX. UTILITY DOOR-ENCLOSURE (ABOVE OR BELOW -ELECTRICAL SERVICE SEE PANEL DIAGRAM, ABOVE 13.75" (0.35m) GROUND) -CONDUIT BUSHINGS -SEE CABINET BASE, BELOW -1" CHAMFER, CONTINUOUS SEE ELECTRICAL -24" (0.60m), -- 4' (1.2m) DEPTH SQUARE FOUNDATION PANEL DIAGRAM _TO TRAFFIC SIGNAL CONTROLLER 2" (50mm) GALV. CONDUIT 2" (50mm) **SERVICE INSTALLATION** -3/4" x 10' (20mm x 3.0m) COPPER CLAD GROUND ROD GROUND MOUNT (NOT TO SCALE) (413 mm)16.25" (0.29 m) 11.50"

CABINET - BASE BOLT PATTERN

(NOT TO SCALE)

CAST CORNER FRAME WEB-UL LISTED GROUND COMPRESSION CONNECTOR ANTI-CORROSION COMPOUND-SHALL BE APPLIED ON ALL BOLT/ CONNECTION ASSEMBLIES. -STAINLESS STEEL NUT AND 2 STAINLESS STEEL WASHERS **DETAIL "A"**





(NOT TO SCALE)

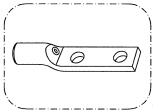
FRAME AND TO COVER. (TYPICAL) HEAVY DUTY COPPER COMPRESSION GROUNDING TERMINAL. (TYPICAL) GROUNDING CABLE
(PAID FOR SEPARATELY) EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL

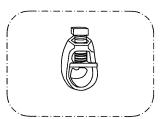
(NOT TO SCALE)

NOTES:

GROUNDING SYSTEM

- 1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN 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, LAKE COUNTY DIVISION 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.

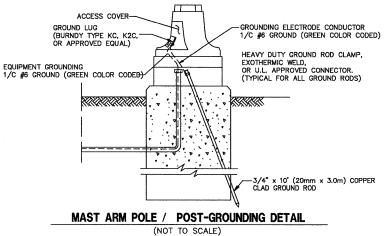




HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)

3/4" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EUAL)

- 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
- 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE STANDARD TRAFFIC SIGNAL **DESIGN DETAILS** SCALE: VERT. NONE

FILE NAME = REVISED JSER NAME == 4085.850-TR1.dwa DRAWN - PJS REVISED PLOT SCALE = CHECKED - KLB REVISED PLOT DATE = - 6-24-2009 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE STANDARD TRAFFIC SIGNAL **DESIGN DETAILS** SCALE: NONE SHEET NO. 5 OF 13 SHEETS STA. TO STA.

SECTION COUNTY 341 2009-081TS KANE 13 CONTRACT #: 60120