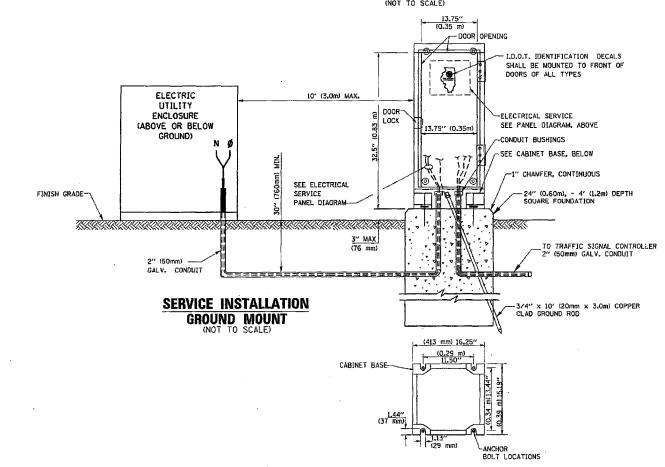
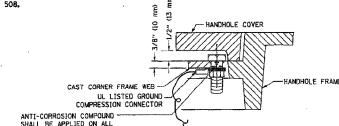


ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

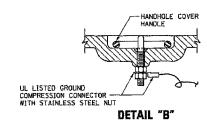
SERVICE INSTALLATION POLE MOUNT (SHOWN)



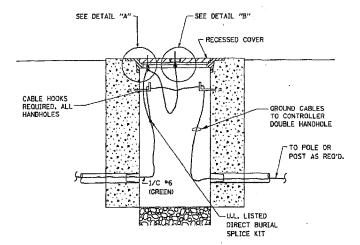
CABINET - BASE BOLT PATTERN
(NOT TO SCALE)



BOLT/ CONNECTION ASSEMBLIES.
-STAINLESS STEEL NUT AND 2 STAINLESS



DETAIL "A"



HANDHOLE COVER & FRAME - GROUNDING DETAIL

(NOT TO SCALE)

WASHER AND NYLON INSERT LOCKOUT WELDED TO FRAME AND TO COVER, (TYPICAL)

HEAVY DUTY COPPER COMPRESSION GROUNDING TERMINAL, (TYPICAL)

(2) 1/2" x 1 1/4" STAINLESS STEEL BOLT WITH SPLIT LOCK

EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL

← FXISTING HANDHOLE

(NOT TO SCALE)

GROUNDING CABLE (PAID FOR SEPARATELY)

NOTES:

GROUNDING SYSTEM

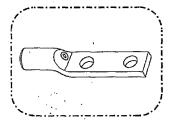
F. A. U. SECTION COUNTY TOPU. SHEETS NO. 2859 08-00222-00-RS COOK 018 012

STA. TO STA.

PID. ROND DIST. NO. 14,1955 FIZE. AS PROJECT

CONTRACT #63045

- I. 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
 (947) TOS-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.
- 4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS
 BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



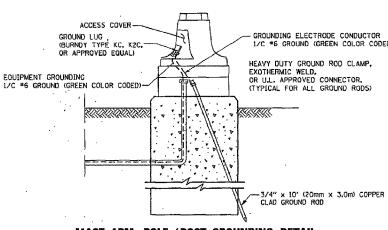
HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)



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

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.



MAST ARM POLE / POST-GROUNDING DETAIL

REVISIONS DATE	ILLINOIS DEPARTMENT	OF TRANSPORTATION
	DISTRI	ICT 1
	STANDARD TRA	AFFIC SIGNAL OFTAILS
	3231311	
· · · · · · · · · · · · · · · · · · ·	SCALE: VERT. NONE HORIZ.	DRAWN BY: RWP DESIGNED BY: DAD CHECKED BY: DAZ