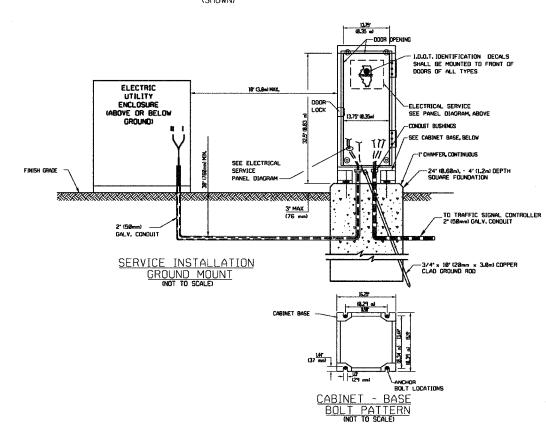
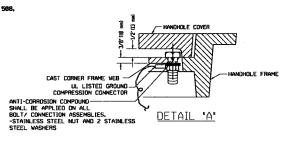
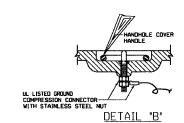


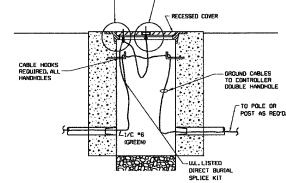
ELECTRICAL SERVICE - PANEL DIAGRAM SERVICE INSTALLATION POLE MOUNT (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)



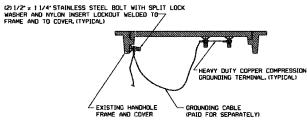




SEE DETAIL "B"



HANDHOLE COVER & FRAME GROUNDING DETAIL (NOT TO SCALE)

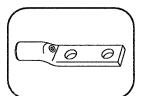


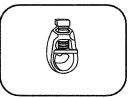
EXISTING HANDHOLE COVER & FRAME GROUNDING DETAIL

MOTESt

GROUNDING SYSTEM

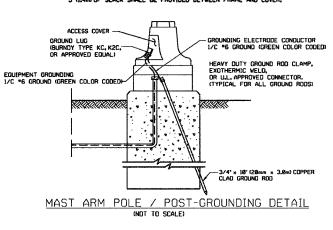
- I. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.M.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE 3/4" DIA, x 18"-8" (28mm x 3.8m) LONG, COPPER CLAD, ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FORMOATIONS, 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
- 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
- 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.

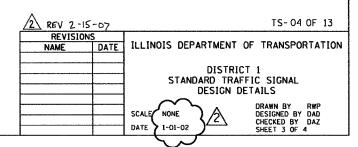




HEAVY-DUTY COMPRESSION TERMINAL 3/4" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE YGHA OR APPROVED EQUAL)

ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5'(2,6m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES.
13'(4,6m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES.
5'(1,4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.





#Fict 01 - 1L 68 over US 14 20 - 1L 68 over US 148Working F