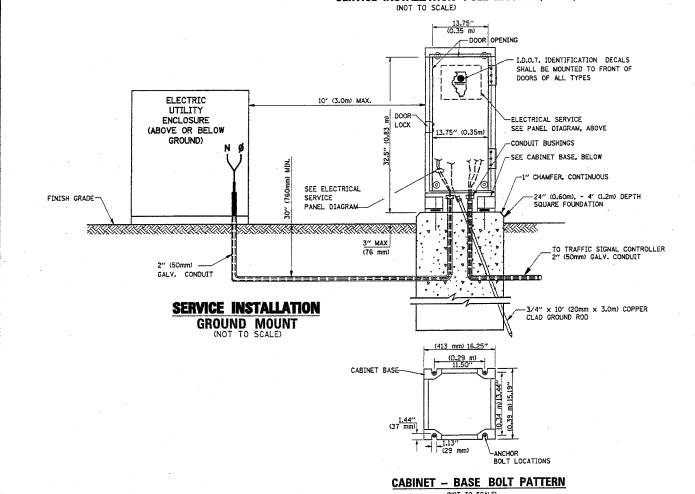
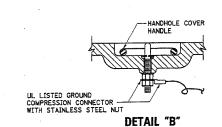


ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE) SERVICE INSTALLATION POLE MOUNT (SHOWN)

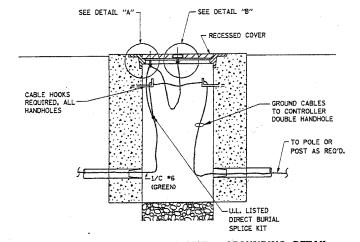


- HANDHOLF COVER CAST CORNER FRAME WEB UL LISTED GROUND COMPRESSION CONNECTOR

STAINLESS STEEL NUT AND 2 STAINLESS



DETAIL "A"



HANDHOLE COVER & FRAME - GROUNDING DETAIL

(2) 1/2" x 1 1/4" STAINLESS STEEL BOLT WITH SPLIT LOCK WASHER AND NYLON INSERT LOCKOUT WELDED TO HEAVY DUTY COPPER COMPRESSION GROUNDING TERMINAL. (TYPICAL) - GROUNDING CABLE (PAID FOR SEPARATELY) - EXISTING HANDHOLE FRAME AND COVER

EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL

(NOT TO SCALE)

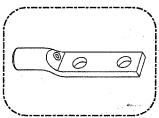
NOTES:

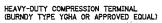
SECTION COUNTY TOTAL SHEETS 2946 3368 A-N COOK 74 58 STA. TO STA. FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

CONTRACTONOTRAC915NO

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 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.

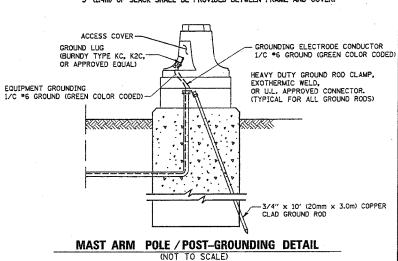






3/4" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EUAL)

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 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



| REVISIONS | | ILLINOIS DEPARTMENT OF TRANSPORTATION | |
|-------------------|---------|---|-------------------------------------|
| NAME | DATE | ILLINOIS DEPARTMEN | I OF TRANSFORTATION |
| CADD | 5/30/00 | | |
| CADD | 3/15/01 | DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS | |
| BUREAU OF TRAFFIC | 1/01/02 | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | SCALE: NONE | DRAWN BY: RWP |
| | | | DESIGNED BY: DAD CHECKED BY: DAZ |
| | | DATE: 11/16/2006 | SHEET 3 OF 4 |

TS05 REVISION DATE: 01/01/02

DATE NAME SCALE NAME