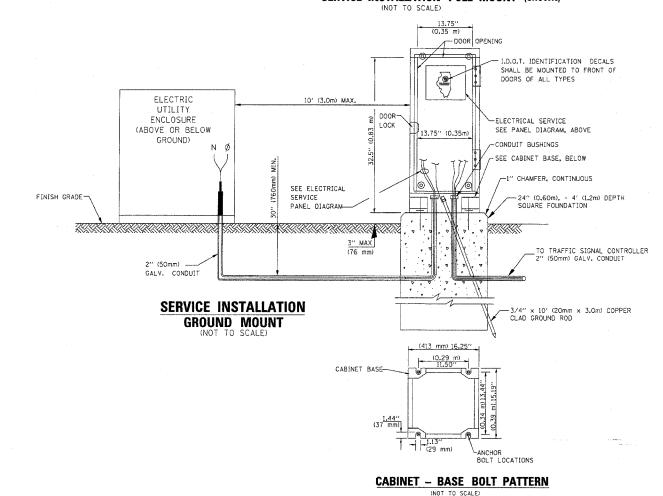


ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE) SERVICE INSTALLATION POLE MOUNT (SHOWN)



NOTES:

HANDHOLE COVER

DETAIL "A"

-HANDHOLE COVER

HANDLE

DETAIL "B"

RECESSED COVER

-U.L. LISTED

DIRECT BURIAL SPLICE KIT

GROUND CABLES

TO CONTROLLER
DOUBLE HANDHOLE

TO POLE OR

POST AS REO'D.

-SEE DETAIL "B"

CAST CORNER FRAME WEB-

SHALL BE APPLIED ON ALL
BOLT/ CONNECTION ASSEMBLIES.
-STAINLESS STEEL NUT AND 2 STAINLESS

SEE DETAIL "A"

ANTI-CORROSION COMPOUND ~

STEEL WASHERS

CABLE HOOKS REQUIRED, ALL HANDHOLES UL LISTED GROUND COMPRESSION CONNECTOR

UL LISTED GROUND COMPRESSION CONNECTOR — WITH STAINLESS STEEL NUT

- 1/C *6

(GREEN

HANDHOLE COVER & FRAME - GROUNDING DETAIL

(NOT TO SCALE)

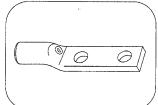
GROUNDING SYSTEM

| CONTRACT NO. 60C03 | F.A.U. | SECTION | COUNTY | TOTAL SHEET | SHEETS | NO. 1374 | 0466-WRS | COOK | 43 | 24 | STA. | TO STA. | FED. ROAD DIST. NO. | ILLINOIS | FED. AID | PROJECT |

D-91-106-07

1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR
TYPE KLP, 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. × 10'-0" (20mm × 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.

- 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.



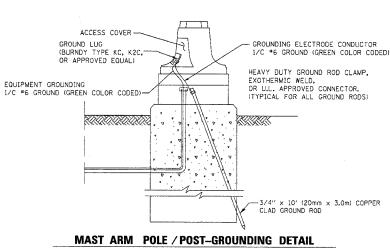




3/4" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EUAL)

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.



(NOT TO SCALE)

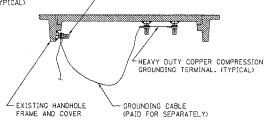
REVISIONS
NAME DATE

DISTRICT 1

STANDARD TRAFFIC SIGNAL
DESIGN DETAILS

SCALE: YERT, NONE DESIGNED BY: DAD CHECKED BY: DAD CH

(2) 1/2" \times 1 1/4" STAINLESS STEEL BOLT WITH SPLIT LOCK WASHER AND NYLON INSERT LOCKOUT WELDED TO FRAME AND TO COVER. (TYPICAL)



EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL

(NOT TO SCALE)

DATE-TIME *DGN-SPEC*

TS05