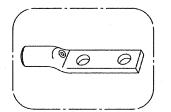
CONTRACT NO. 63316 * EXCHANGE STREET

* 09-00044-01-TL

NOTES:

GROUNDING SYSTEM

- 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
- 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.

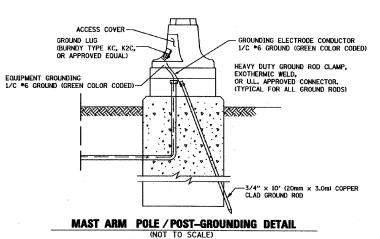


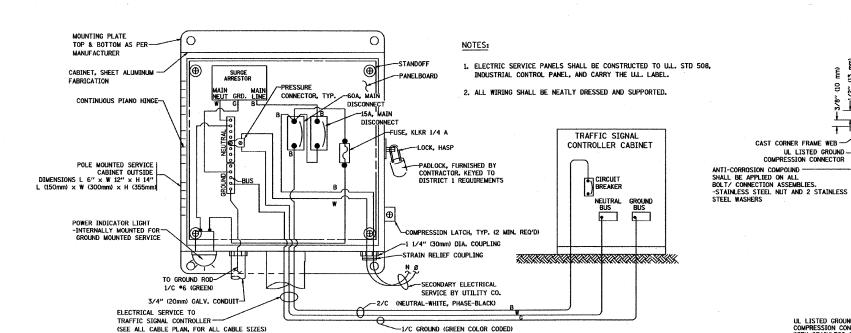
HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)



34" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EQUAL)

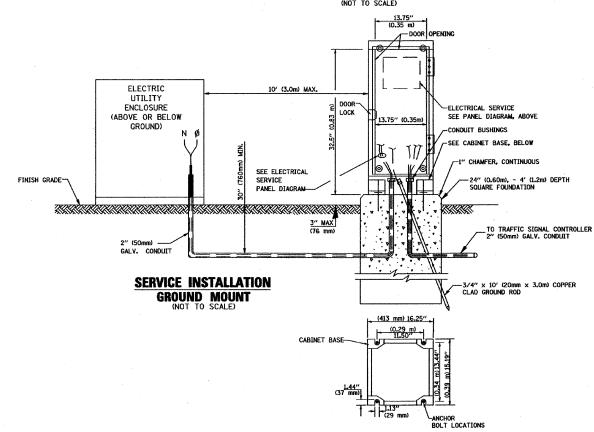
 ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
 GROUND CABLE SHALL BE 1 SOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



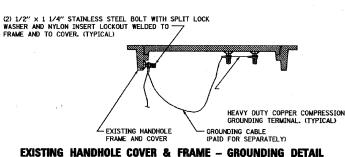


ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

SERVICE INSTALLATION POLE MOUNT (SHOWN)



CABINET - BASE BOLT PATTERN (NOT TO SCALE)



HANDHOLE COVER & FRAME - GROUNDING DETAIL

(NOT TO SCALE)

CAST CORNER FRAME WEB-UL LISTED GROUND-COMPRESSION CONNECTOR

UL LISTED GROUND COMPRESSION CONNECTOR WITH STAINLESS STEEL I

SEE DETAIL "A"

CABLE HOOKS

HANDHOLES

DETAIL "A"

DETAIL "B"

LUL, LISTED

TO POLE OR

-- SEE DETAIL "B"

(NOT TO SCALE)

REVISIONS ROBERT E. HAMILTON DATE CONSULTING ENGINEERS P.C. 1 PER IDOT 8-13-09 3230 EXECUTIVE DRIVE 2 PER IDOT 10-29-09 JOLIET, ILLINOIS 60431 FAX: 815-730-6703 REH PROJECT: 06902 SCALE: NTS MEI PROJECT: 04119.806

BRIDE ENGINEERING, INC. CIVIL ENGINEERS & SURVEYORS
ILLINOIS PROFESSIONAL DESIGN FIRM #184-000803

SCALE: NONE

ARLINGTON HEIGHTS DIVISON 320 S. Belmont Avenue Arlington Heights, IL 60005-2038 847-394-4810

EXCHANGE STREET IMPROVEMENTS WILL COUNTY, ILLINOIS STANDARD TRAFFIC SIGNAL

VILLAGE OF CRETE

DESIGN DETAILS

DRAWN BY: PG/ADM CHECKED BY: LGB

DATE: 7-3-09