(847) 705-4139.

- HANDHOLE COVER

DETAIL "A"

-HANDHOLE COVER HANDLE

DETAIL "B"

- SEE DETAIL "B"

CAST CORNER FRAME WEB -

ANTI-CORROSION COMPOUND -

SHALL BE APPLIED ON ALL BOLT/ CONNECTION ASSEMBLIES.

-STAINLESS STEEL NUT AND 2 STAINLESS

SEE DETAIL "A"

UL LISTED GROUND -COMPRESSION CONNECTOR

UL LISTED GROUND

COMPRESSION CONNECTOR

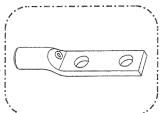
WITH STAINLESS STEEL NUT

TOTAL SHEET SHEETS NO. SECTION COUNTY 1602 2008-054 TS COOK 40 37 STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

- 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.
- 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.

ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT

- 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.



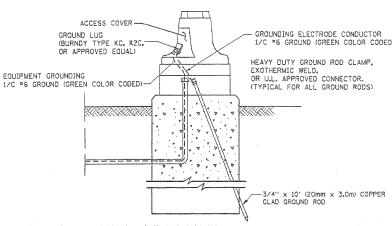
HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)



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 (NOT TO SCALE)

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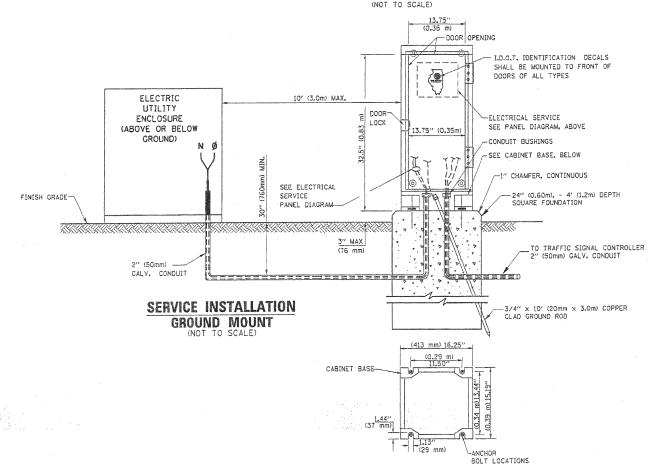
SCALE: VER I. NONE DATE 1-01-02

DESIGNED BY: DAD CHECKED BY: DAZ SHEET 3 OF 4

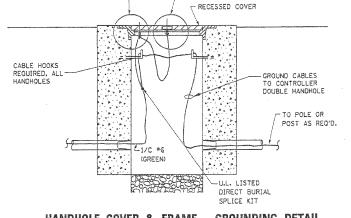
MOUNTING PLATE TOP & BOTTOM AS PER-NOTES: MANUFACTURER -STANDOFF 1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508. (1) CABINET. SHEET ALUMINUM -INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL. -PANELBOARD FABRICATION -PRESSURE 2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED. CONNECTOR, TYP. CONTINUOUS PIANO HINGE-DISCONNEC -15A, MAIN DISCONNECT FUSE, KLKR 1/4 A TRAFFIC SIGNAL CONTROLLER CABINET POLE MOUNTED SERVICE CABINET OUTSIDE -PAGINCK FURNISHED BY CONTRACTOR, KEYED TO DISTRICT 1 REQUIREMENTS CIRCUIT DIMENSIONS L 6" x W 12" x H 14" BREAKER L (150mm) x W (300mm) x H (355mm) NEUTRAL GROUND BUS BUS POWER INDICATOR LIGHT -INTERNALLY MOUNTED FOR--COMPRESSION LATCH, TYP. (2 MIN. REO'D) GROUND MOUNTED SERVICE -1 1/4" (30mm) DIA. COUPLING -STRAIN RELIEF COUPLING TO GROUND ROD--SECONDARY ELECTRICAL 1/C #6 (GREEN) SERVICE BY UTILITY CO. 3/4" (20mm) GALV. CONDUIT -2/C (NEUTRAL-WHITE, PHASE-BLACK) ELECTRICAL SERVICE TO TRAFFIC SIGNAL CONTROLLER -(SEE ALL CABLE PLAN, FOR ALL CABLE SIZES) -1/C GROUND (GREEN COLOR CODED)

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)

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

EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL

(NOT TO SCALE)