

UL LISTED GROUND COMPRESSION CONNECTOR

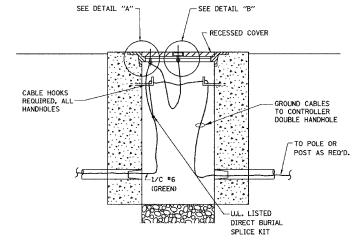
ANTI-CORROSION COMPOUND

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

HANDHOLE COVER UL LISTED GROUND COMPRESSION CONNECTOR WITH STAINLESS STEEL NUT

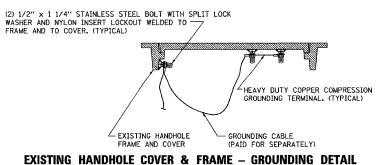
DETAIL "B"

DETAIL "A"



HANDHOLE COVER & FRAME - GROUNDING DETAIL

(NOT TO SCALE)

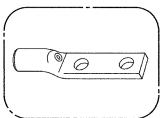


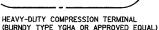
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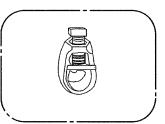
SECTION COUNTY 305 1313.1 B COOK 193 118 STA. TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

CONTRACT NO. 62878

- 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
- 4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

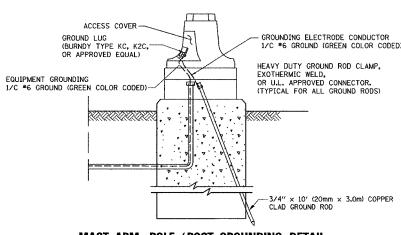






3/4" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EUAL)

• 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.



MAST ARM POLE / POST-GROUNDING DETAIL

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE	ILLINOIS DEI ARTIMENT	OF TRANSFORTATION
		DISTRI STANDARD TRA DESIGN D	FFIC SIGNAL
		SCALE: VERT. NONE HORIZ. DATE 1-01-02	DRAWN BY: RWP DESIGNED BY: DAD CHECKED BY: DAZ SHEET 3 OF 4

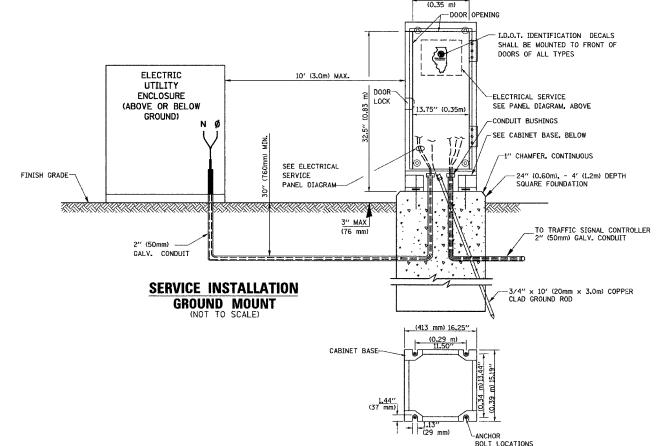
SERVICE INSTALLATION POLE MOUNT (SHOWN) __DOOR OPENING

PRESSURE

CONNECTOR, TYP.

DISCONNEC

—15A. MAIN DISCONNECT



CABINET - BASE BOLT PATTERN

NOTES:

-PADLOCK, FURNISHED BY CONTRACTOR. KEYED TO DISTRICT 1 REQUIREMENTS

-COMPRESSION LATCH, TYP. (2 MIN. REQ'D)

-1 1/4" (30mm) DIA, COUPLING

-SECONDARY ELECTRICAL

-1/C GROUND (GREEN COLOR CODED

SERVICE BY UTILITY CO.

-STRAIN RELIEF COUPLING

2/C (NEUTRAL-WHITE, PHASE-BLACK)

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

CIRCUIT

-STANDOFF

-PANELBOARD

-FUSE, KLKR 1/4 A

MOUNTING PLATE TOP & BOTTOM AS PER

CABINET, SHEET ALUMINUM

CONTINUOUS PIANO HINGE-

POLE MOUNTED SERVICE CABINET OUTSIDE
DIMENSIONS L 6" × W 12" × H 14"

POWER INDICATOR LIGHT

GROUND MOUNTED SERVICE

TO GROUND ROD-

1/C #6 (GREEN)

ELECTRICAL SERVICE TO

TRAFFIC SIGNAL CONTROLLER

3/4" (20mm) GALV. CONDUIT

(SEE ALL CABLE PLAN, FOR ALL CABLE SIZES)

L (150mm) x W (300mm) x H (355mm)

MANUFACTURER

FABRICATION

TS05