

-ANCHOR

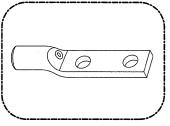
CABINET - BASE BOLT PATTERN

BOLT LOCATIONS

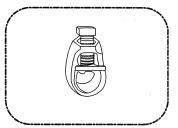
NOTES:

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 $3/4^{\prime\prime\prime}$ DIA. \times 10'-0" (20mm \times 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
- 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.

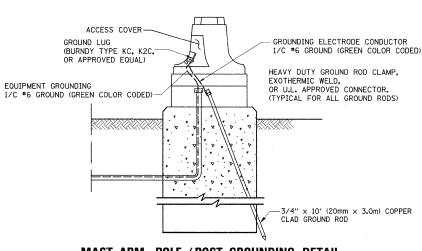


HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)



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

 \bullet 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

EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL

- EXISTING HANDHOLE

(NOT TO SCALE)

FRAME AND COVER

HEAVY DUTY COPPER COMPRESSION

GROUNDING TERMINAL. (TYPICAL)

GROUNDING CABLE (PAID FOR SEPARATELY)

FILE NAME =	USER NAME = steedpa	DESIGNED	-	D.A.D.	REVISED	- 03-15-01
c:\pw_work\pwidot\steedpa\dØ146008\DistS	td.dgn	DRAWN	-	R.W.P.	REVISED	BUR. TRAFFIC 01-01-02
	PLDT SCALE = 50.0000 '/ IN.	CHECKED	-	D.A.Z.	REVISED	Mr.
	PLOT DATE = 9/1/2009	DATE	-	05-30-00	REVISED	-

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

						F.A.U. SECTION			COUNTY	TOTAL SHEETS	SHEET NO.			
STANDARD TRAFFIC SIGNAL DESIGN DETAILS								3349 RS-3		COOK	24	19		
STANDARD TRAFFIC SIGNAL DESIGN DETAILS							TS-05			CONTRACT	NO.	50F52		
CALE: NONE	SHEET NO. 3	OF 4	SHEETS	STA.		TO STA.		FED. RO	DAD DIST. NO. 1	ILLINOIS	FED. AI	D PROJECT		