





- BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm).
 ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- 2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- 3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.

Mast Arm Length Less than 30' (9.1 m)

Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)

Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)

Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)

Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)

- 4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
- 5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
- 6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM

FoundationDepth

10'-0" (3.0 m)

13'-6" (4.1 m)

11'-0" (3.4 m)

13'-0" (4.0 m)

15'~0" (4.6 m)

21'-0" (6.4 m)

25'-0" (7.6 m)

Foundation Diameter

36" (900mm)

36" (900mm)

42" (1060mm)

Spiral Diameter

30" (750mm)

30" (750mm

36" (900mm)

30" (750mm) 24" (600mm)

30" (750mm) 24" (600mm)

36" (900mm) 30" (750mm)

42" (1060mm) | 36" (900mm)

Size of Rebars

6(19) 6(19)

7(22)

7(22)

7(22)

8(25)

8(25)

12

12

12

16

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13,0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

VERTICAL CABLE LENGTH		METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD)		"
(L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2,0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6,0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

DEPTH OF FOUNDATION VERTICAL CABLE LENGTH

FOUNDATION	DEPTH	
TYPE A - Signal Post	4'-0" (1.2m)	
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)	
TYPE D - CONTROLLER	4'-0" (1.2m)	
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)	

Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m) NOTES:

- These foundation depths are for sites which have cohesive soils (clayey slit, sandy clay, etc.) along
 the length of the shaft, with an average Unconfined Compressive Strength (Ou) > 1.0 tsf (100 kpa).
 This strength shall be verified by boring data prior to construction or with testing by the Enginee
 during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised
 design if other conditions are encountered.
- 2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- 3. Combination mast arm assembles under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm diameter foundations.
- 4. For most arm assemblies with dual arms refer to state standard 878001.

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

			GHA #4185.80		
DISTRICT ONE (SHEET 5 OF 6)	FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
OARD TRAFFIC SIGNAL DESIGN DETAILS	1295	09-00154-00-PV	COOK	119	78
AND INALIO CIGIAL DECIGIO DE LAILO		TO 00			740

CABLE SLACK

PLOT DATE = 10/17/2013

FILE NAME =

4185.805~ TR1.dwg

USER NAME = GHA DESIGNED - DAD REVISED DRAWN - BCK REVISED PLOT SCALE = " = .083.3" CHECKED - DAD REVISED -

10-28-09

REVISED

DATE

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

STANDARD TRAFFIC SIGNA

SHEET NO. T23 OF T24 SHEETS STA. TO STA. T\$-05