





- 1. 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.
- 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

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

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	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

## 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)		

# DEPTH OF FOUNDATION

① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
11'-0'' (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
13'-0'' (4.0 m)	36" (900mm)	30'' (750mm)	12	7(22)
15'-0'' (4.6 m)	36" (900mm)	30'' (750mm)	12	7(22)
21'-0'' (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
25'-0'' (7.6 m)	42" (1060mm)	36'' (900mm)	16	8(25)
	Depth 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)	Depth Diameter  10'-0" (3.0 m) 30" (750mm)  13'-6" (4.1 m) 30" (750mm)  11'-0" (3.4 m) 36" (900mm)  13'-0" (4.0 m) 36" (900mm)  15'-0" (4.6 m) 36" (900mm)  21'-0" (6.4 m) 42" (1060mm)	Depth         Diameter         Diameter           10'-0" (3.0 m)         30" (750mm)         24" (600mm)           13'-6" (4.1 m)         30" (750mm)         24" (600mm)           11'-0" (3.4 m)         36" (900mm)         30" (750mm)           13'-0" (4.0 m)         36" (900mm)         30" (750mm)           15'-0" (4.6 m)         36" (900mm)         30" (750mm)           21'-0" (6.4 m)         42" (1060mm)         36" (900mm)	Depth         Diameter         Diameter         Rebars           10'-0" (3.0 m)         30" (750mm)         24" (600mm)         8           13'-6" (4.1 m)         30" (750mm)         24" (600mm)         8           11'-0" (3.4 m)         36" (900mm)         30" (750mm)         12           13'-0" (4.0 m)         36" (900mm)         30" (750mm)         12           15'-0" (4.6 m)         36" (900mm)         30" (750mm)         12           21'-0" (6.4 m)         42" (1060mm)         36" (900mm)         16

#### NOTES:

- These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along
  the length of the shaft, with an average Unconfined Compressive Strength (0u) > 1.0 tsf (100 kpa).
  This strength shall be verified by boring data prior to construction or with testing by the Engineer
  during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised
  design if other conditions are encountered.
- 2. Combination most arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- 3. Combination mast arm assemblies 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

FILE NAME =	USER NAME = jwoulfe	DESIGNED -	REVISED -			DISTRICT ONE	F.A.P. SECTION	COUNTY TOTAL SHEET
60T98-12-D1 Standard TS Details.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS			365 (56R-2) TS	DuPAGE 33 12
	PLOT SCALE = 1:1	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	STANDARD TRAFFIC SIGNAL DESIGN DETAILS		TS-05	CONTRACT NO. 60T98
\$MODELNAME\$	PLOT DATE = 4/10/2013	DATE -	REVISED -		SCALE: NONE	SHEET 5 OF 6 SHEETS STA. TO STA.	ILLINOIS FED.	. AID PROJECT