



	65" (SEE NOTE 4) (1651mm) 49" (SEE NOTE 3) 1245mm) (1118mm) (125mm) (1
	UPS——CABINET TRAFFIC SIGNAL CONTROLLER CABINET **Y4" (19mm) TREATED PHYWOOD DECK
	2" x 6" (51mm x 152mm) TREATED WOOD
	48", MIN, 12" MIN, (1219mm) (305mm)
	NOTES: 6" x 6" (152mm x 152mm) TREATED WOOD POSTS
-	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" \times 25" (406mm \times 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			
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			
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

SCALE: N

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars	
Less than 30′ (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)	
Greater than or equal to	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)	
30' (9.1 m) and less than 40' (12.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)	
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0'' (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)	
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0'' (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)	
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0'' (6 _* 4 m)	42" (1060mm)	36" (900mm)	16	8(25)	
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)	

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 (Qu) > 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 mast 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 mast arm assemblies with dual arms refer to state standard 878001.

DEPTH OF MAST ARM FOUNDATIONS. TYPE E

FILE NAME =	USER NAME = ZACH WALLSTEN	DESIGNED - DAD	REVISED -
4085.880-TR1.dwg		DRAWN - BCK	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - DAD	REVISED -
	PLOT DATE = 12/16/2011	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

GHA #							GHA #40	085.880
DISTRICT ONE		F.A.P. RTE. SECTION		COUNTY	TOTAL SHEETS	SHEET NO.		
STANDARD TRAFFIC SIGNAL DESIGN DETAILS			VARIES	2011-218-1	KANE	48	10	
SIAN	STANDARD TRAFFIC SIGNAL DESIGN DETAILS			TS-05		CONTRACT #: 60R60		R60
NONE	SHEET NO. 5 OF 6 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				