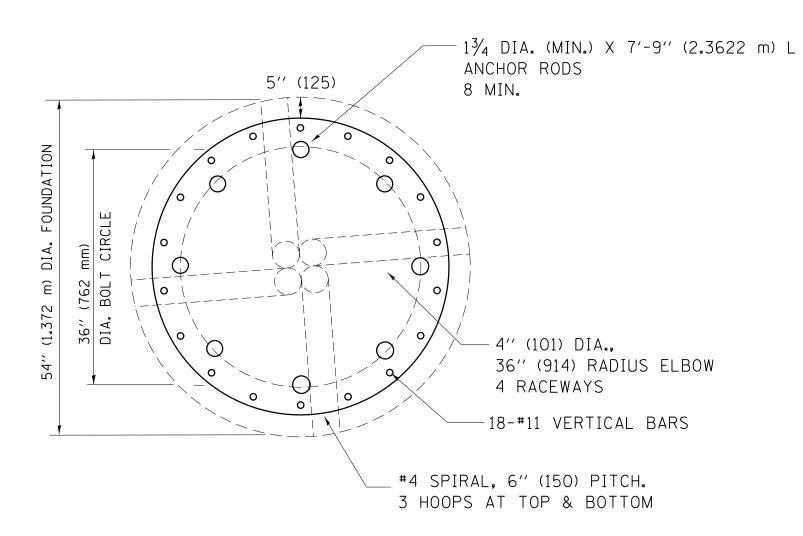
		SHAFT LENGTH (D)	TABLE		
SOIL CONSISTENCY		AVERAGE STRENGTH	LIGHT TOWER MOUNTING HEIGHT		
		Qu In tsf (Qu In kPa)	120 FT. (37 m)	130 FT. (40 m)	140 FT. (43 m)
	SOFT	<0 . 5 (<50)	25′-0′′ (7.6 m)	26'-6'' (8.0 m)	27'-6'' (8.3 m)
	MEDIUM	0.5 TO 1 (50 to 100)	20'-6'' (6.2 m)	21'-6'' (6.4 m)	22'-0'' (6.7 m)
COHESIVE	STIFF	1 TO 2 (100 TO 200)	17′-6′′ (5.2 m)	18'-0'' (5.4 m)	18'-6'' (5.5 m)
	VERY STIFF	2 TO 4 (200 TO 400)	15'-0'' (4.5 m)	15'-6'' (4.6 m)	16'-0'' (4.7 m)
	HARD	>4 (>400)	13'-6'' (4.0 m)	13'-6'' (4 ₋ 1 m)	14'-0'' (4.2 m)
		N in BLOWS/FT. (N in BLOWS/0.3m)			
	VERY LOOSE	<5 (<5)	19'-0'' (6.3 m)	20'-0'' (6.0 m)	20'-6'' (6.2 m)
	LOOSE	5 TO 10 (5 TO 10)	17'-6'' (5.7 m)	18'-0'' (5.5 m)	18'-6'' (5.6 m)
GRANULAR	MEDIUM	10 TO 25 (10 TO 25)	16'-6'' (5.5 m)	17'-0'' (5.2 m)	17'-6'' (5.3 m)
	DENSE	25 TO 50 (25 TO 50)	15′-6′′ (5.2 m)	16'-6'' (4.9 m)	16'-6'' (5.0 m)
	VERY DENSE	>50 (>50)	15'-0'' (4.5 m)	15′-6′′ (4.7 m)	16'-0'' (4.8 m)

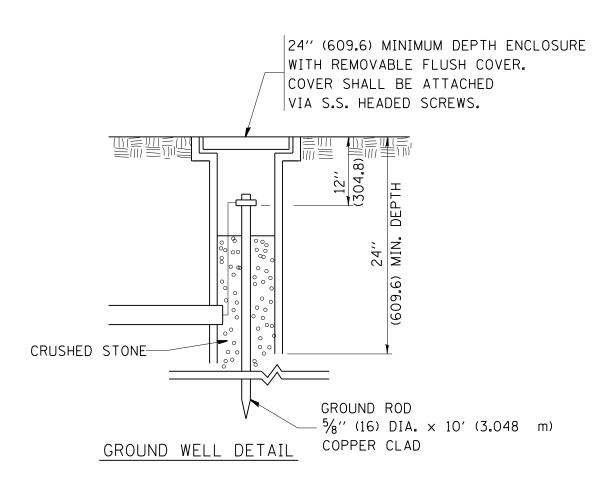


SECTION-B-B

USER NAME = bauerdl

PLOT SCALE = 50.000 '/ 1n.

PLOT DATE = 2/27/2013



DESIGNED - R. TOMSONS

- 03-12-10

DRAWN

DATE

CHECKED

REVISED

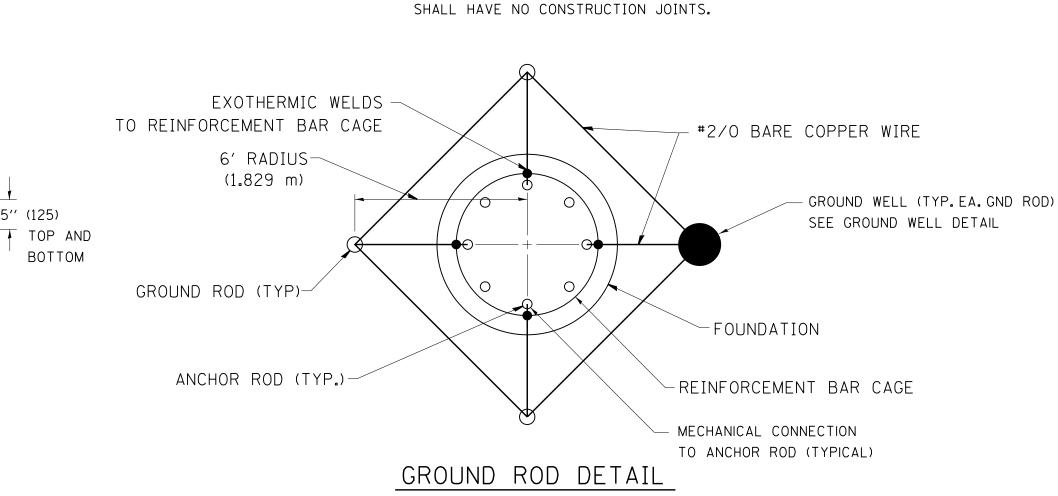
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DESIGN NOTES

- (1) ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN
- (2) THE ANCHOR RODS SHALL BE VERTICAL NO ADJUSTMENT SHALL BE ALLOWED AFTER THE FOUNDATION IS PLACED.
- (3) THE GAP BETWEEN THE FOUNDATION AND THE BASE PLATE SHALL BE ENCLOSED WITH A STAINLESS STEEL SCREEN FASTENED WITH A STAINLESS STEEL BAND.
- (4) THE TOP OF THE FOUNDATION TO 18" (450) BELOW GRADE SHALL BE FORMED.
- (5) SURFACE WATER WILL NOT BE PERMITTED TO ENTER THE HOLE AND ALL WATER WHICH MAY HAVE INFILTRATED INTO THE HOLE SHALL BE REMOVED BEFORE PLACING CONCRETE.
- (6) THE LIGHT TOWER SHALL NOT BE ERECTED UNTIL AFTER THE CONCRETE HAS BEEN CURED ACCORDING TO ARTICLE 1020.13.
- (7) ANCHOR RODS SHALL BE STRAIGHT AND SHALL BE ACCORDING TO AASHTO M 314 OR ASTM F1554, GRADE 725(GRADE 105) AND GALVANIZED ACCORDING TO ARTICLE 1006.9.
- (8) ANCHOR ROD INFORMATION SHALL BE SUBMITTED FOR APPROVAL AND SHALL BE FULLY COORDINATED FOR APPROVAL WITH TOWER MANUFACTURER REQUIREMENTS.
- (9) REINFORCEMENT BARS SHALL BE ACCORDING TO ARTICLE 1006.10
- (10) TWO ANCHOR RODS OPPOSITE EACH OTHER SHALL HAVE THE ANCHOR ROD THREADS PEENED AFTER NUTS ARE INSTALLED.
- (11) A MINIMUM OF THREE FULL THREADS SHALL REMAIN EXPOSED AFTER LIGHT TOWER IN INSTALLED.
- (12) ALL GROUNDING INDICATED IN THE PLANS SHALL BE INCLUDED IN THE COST OF THE LIGHT TOWER FOUNDATION AND SHALL NOT BE PAID FOR SEPARATELY.
- (13) CUT NUTS, OR JAM NUTS, ARE NOT ALLOWED
- (14) ANCHOR ROD QUANTITY, DIAMETER, AND LENGTH SHALL BE DETERMINED BY THE TOWER MANUFACTURER AND APPROVED BY THE ENGINEER. EACH FOUNDATION SHALL HAVE A MINIMUM OF 8 ANCHOR RODS.
- (15) COORDINATE THE ROD CIRCLE DIAMETER OF THE TOWER WITH THE DIAMETER OF THE ANCHOR ROD CAGE.
- (16) THE FOUNDATION SHALL BE POURED MONOLITHICALLY AND



-	R.	TOMSONS	09-02-10
-	R.	TOMSONS	02-27-13
_			

DEPARTMENT OF TRANSPORTATION SCALE: NONE

STATE OF ILLINOIS

FOUNDATION

ELEVATION

BASE PLATE -

SEE NOTE 11

6" (150) PITCH

MECHANICAL CONNECTION -

EXOTHERMIC WELD CONNECTION

#2/0 BARE COPPER WIRE —

EXOTHERMIC WELD -

CONNECTION

 $4-\frac{5}{8}$ " (16) DIA. X 10' (3.048 m) LONG GROUND RODS EQUALLY

DIAMETER CIRCLE EXOTHERMICALLY

SPACED IN A 12' (3.658 m)

#2/0 BARE COPPER WIRE (SEE GROUND ROD DETAIL)

CONNECTED TOGETHER WITH A

TO ANCHOR RODS

TO REINFORCING STEEL

12" (304.8)

RACEWAY PROJECTION

18'' (457)

- SEE ANCHOR BOLT CAGE WELDMENT

DETAIL SHEET 2

5'' (125)

ВОТТОМ

HIGH MAST LIGHT TOWER 120 FT TO 140 FT FOUNDATION DETAIL SHEET NO. 1 OF 2 SHEETS STA. TO STA.

SECTION COUNTY BE-506 CONTRACT NO. FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

FILE NAME =

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