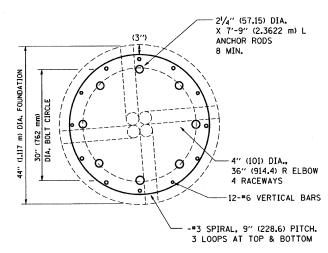
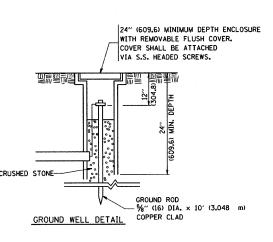
LIGHT TOWER FOUNDATION DEPTH "D"

	SOIL CONDITIONS							
MOUNTING HEIGHT	SOFT CLAY Qu = 0.375 TON/SO. FT	MEDIUM CLAY Qu = 0.75 TON/SQ. FT	STIFF CLAY Qu = 1.50 TON/SQ. FT	LOOSE SAND Ø = 34°	MEDIUM SAND Ø = 37.5°	DENSE SAND Ø = 40°		
90 FT	29 FT	20 FT	15 FT	15 FT	13 FT	12 FT		
(27 m)	(8.779 m)	(6.035 m)	(4.389 m)	(4.389 m)	(3.840 m)	(3.429 m)		
100 FT	32 FT	22 FT	16 FT	16 FT	14 FT	13 FT		
(30 m)	(9.754 m)	(6.706 m)	(4.877 m)	(4.877 m)	(4.267 m)	(3.81 m)		
110 FT	35 FT	24 FT	18 FT	18 FT	15 FT	14 FT		
(33 m)	(10.719 m)	(7.377 m)	(5.365 m)	(5.365 m)	(4.694 m)	(4.191 m)		
120 FT	38 FT	26 FT	19 FT	19 FT	17 FT	16 FT		
(36 m)	(11.705 m)	(8.046 m)	(5.652 m)	(5.652 m)	(5.120 m)	(4.572 m)		



SECTION-B-B



BASE PLATE 12" (304.8) 12" (304.8) 12" (304.8) 12" (304.8) 12" (304.8) 12" (304.8) 12" (304.8) 12" (304.8) 12" (304.8) 12" (304.8) 12" (304.8) 12" (304.8) 12" (304.8) 12" (304.8) 12" (304.8) 12" (304.8) 12" (304.8) 14" (304.8) 15" (304.8) 16" (304.8) 16" (304.8) 16" (304.8) 18" (304.8) 19" (304.8) 10" (

(3) THE GAP BETWEEN THE FOUNDATION AND THE BASE PLATE SHALL BE ENCLOSED WITH A STAINLESS STEEL SCREEN FASTENED WITH A STAINLESS STEEL BAND.

DESIGN NOTES

(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.

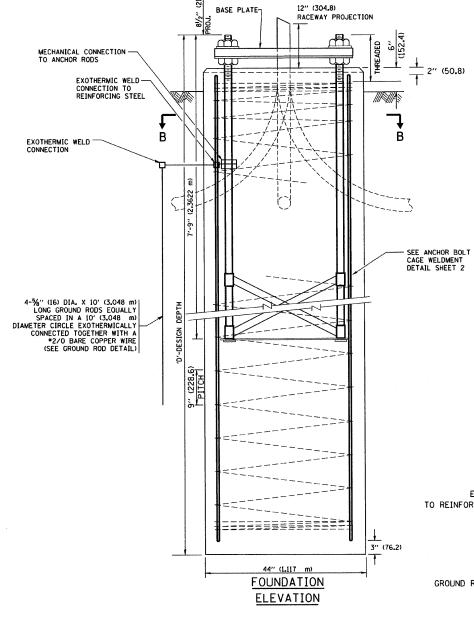
(6) THE LIGHT TOWER SHALL NOT BE ERECTED UNTIL AFTER THE CONCRETE HAS BEEN CURED ACCORDING TO ARTICLE 1020.13.

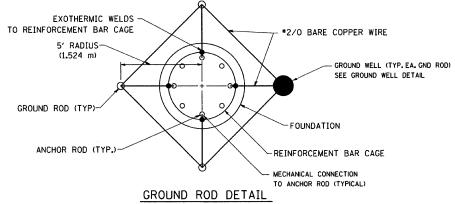
(7) ANCHOR RODS SHALL BE STRAIGHT AND SHALL BE ACCORDING TO AASHTO M 314 OR ASTM F1554, GRADE 725(GRADE 105) AND GALVANIZED ACCORDING TO ARTICLE 1006.9.

(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

(IO) TWO ANCHOR RODS OPPOSITE EACH OTHER SHALL HAVE THE ANCHOR ROD THREADS PEENED AFTER NUTS ARE INSTALLED.





FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - R. TOMSONS 04-22-02
W:\diststd\22x34\be501.dgn		DRAWN -	REVISED -
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 1/4/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HIGH MAST LIGHT TOWER				F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE1		
ı	90 FT TO 120 FT (27 mTO 36 m) FOUNDATION DETAIL					IS7	2008-082L	COOK/WILL	49	43
50 FT TO 120 FT (27 IIITO 30 III) FOORDATION DETAIL						BE-501	CONTRACT NO. 60F84			
ı	SCALE: NONE	SHEET NO. 1 OF 2	SHEETS	STA.	TO STA.	FED. R	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			