F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1230	03-00159-00-PV	LAKE	262	193
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT: 83828

FOUNDATION DESIGN TABLE

TYPE OF SOIL	DESIGN DEPTH OF FOUNDATION		REINFORCEMENT IN FOUNDATION			
			SINGLE ARM		TWIN ARM	
	SINGLE ARM D	TWIN ARM D	VERT BARS	SPIRAL	VERT BARS	SPIRAL
SOFT CLAY	3.962 m (13'-0")	4.572 m (15'-0")	8-#6X3.810 m (12'-6")	#3X37.186 m (122')	8-#6X4.343 m (14'-3")	#3X42.977 m (141')
MEDIUM CLAY	2.896 m (9'-6")	3.277 m (10'-9")	8-#6X2.743 m (9'-0")	#3X27.432 m (90')	8-#6X3.048 m (10'-0")	#3X30.480 m (100')
STIFF CLAY	2.134 m (7'-0")	2.438 m (8'-0")	8-#6X1.981 m (6'-6")	#3X20.112 m (66')	8-#6X2.286 m (7'-6")	#3X23.165 m (76')
LOOSE SAND	2.743 m (9'-0")	3.048 m (10'-0")	8-#6X2.591 m (8'-6")	#3X25.908 m (85')	8-#6X2.896 m (9'-6")	#3X28.651 m (94')
MEDIUM SAND	2.515 m (8'-3")	2.743 m (9'-0")	8-#6X2.438 m (8'-0")	#3X23.774 m (78')	8-#6X2.591 m (8'-6")	#3X25.908 m (85')
DENSE SAND	2.362 m (7'-9")	2.743 m (9'-0")	8-#6X2.286 m (7'-6")	#3X22.250 m (73')	8-#6X2.591 m (8'-6")	#3X25.908 m (85')
ROCK OR SOLIDIFIED SLAG	1.524 m (5'-0")	1.524 m (5'-0")	NONE	NONE	NONE	NONE

NOTES

1.) THE ENGINEER WILL DETERMINE THE CLASS OF SOIL DURING EXCAVATION AND SELECT THE DESIGN DEPTH OF THE FOUNDATION FROM THE DESIGN TABLE.

2.) EXCAVATION OF THE POLE FOUNDATION MUST BE MADE WITH AN AUGER, 24" OR 30" IN DIAMETER.

3.) THE ANCHOR MUST BE A TACK WELDED TYPE BOLT OR HOOK TYPE BOLT. COLD BENDING OF THE HOOK BOLT IS NOT ALLOWED.

4.) THE ANCHOR BOLTS AND RACEWAYS MUST BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORM.

5.) THE ENTIRE LENGTH OF THE ANCHOR BOLTS, AS WELL AS THE NUTS AND WASHERS, MUST BE HOT DIP GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM DESIGNATION A 153.

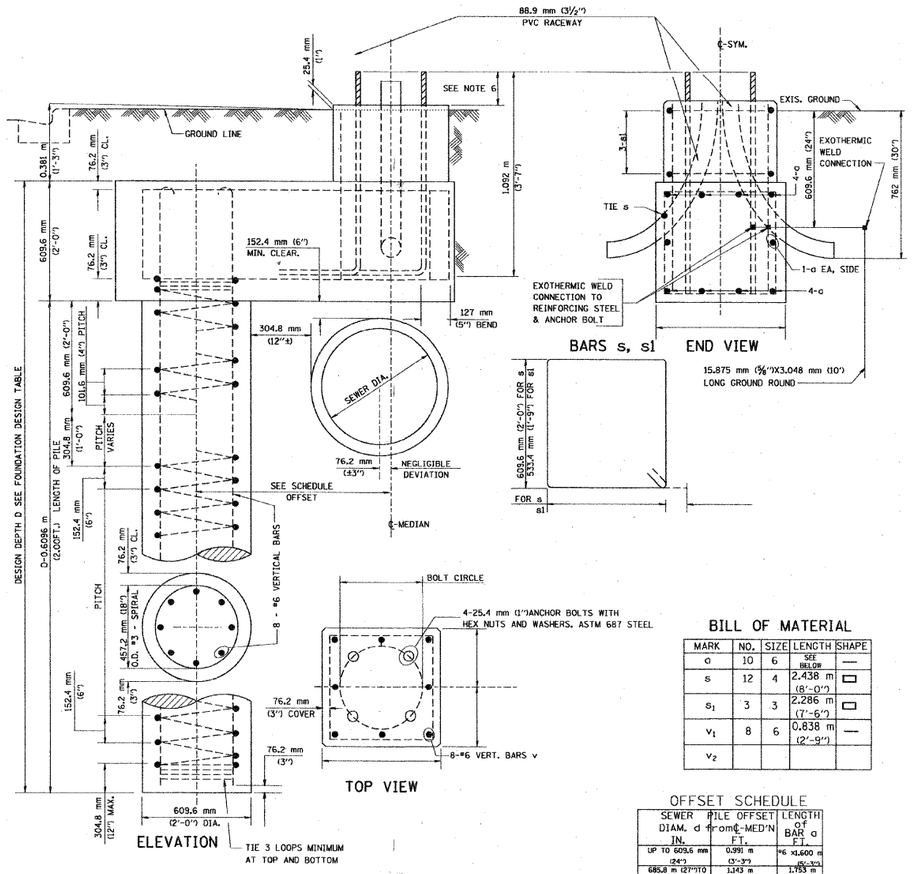
6.) THE CONTRACTOR MUST COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE THE TOP OF FOUNDATION WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS. IF LIGHT POLE IS MOUNTED WITHOUT A BREAKAWAY DEVICE, ANCHOR BOLTS MUST COORDINATE WITH THE POLE MANUFACTURER'S REQUIREMENTS.

7.) THE CONTRACTOR MUST COORDINATE THE ANCHOR BOLT CIRCLE WITH THE LIGHT POLE MANUFACTURER'S RECOMMENDATIONS.

8.) RACEWAYS MUST PROJECT 1" ABOVE THE TOP OF FOUNDATION.

9.) CONCRETE SHALL BE CLASS "SI". CONCRETE FOUNDATIONS MUST BE CURED FOR TEN (10) DAYS BEFORE THE LIGHT STANDARD IS ERECTED.

10.) THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT STANDARD IS ERECTED.

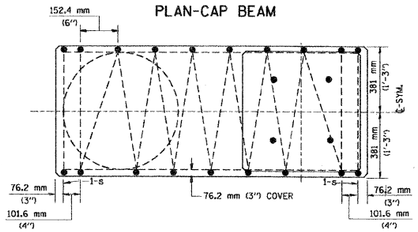


BILL OF MATERIAL

MARK	NO.	SIZE	LENGTH	SHAPE
o	10	6	SEE BELOW	—
s	12	4	2.438 m (8'-0")	□
s_1	3	3	2.286 m (7'-6")	□
v_1	8	6	0.838 m (2'-9")	—
v_2				

OFFSET SCHEDULE

SEWER PIPE DIAM. d IN.	OFFSET from ℄-MED'N FT.	LENGTH of BAR o FT.
UP TO 609.6 mm (24")	0.991 m (3'-3")	#6 x1.600 m (5'-3")
685.8 m (27") TO 914.4 mm (36")	1.143 m (3'-9")	1.753 m (5'-9")
1066.8 mm (42") TO 1219.2 mm (48")	1.372 m (4'-6")	1.981 m (6'-6")
1371.6 mm (54") TO 1524.0 mm (60")	1.524 m (5'-0")	2.134 m (7'-0")
1676.4 mm (66") TO 1828.8 mm (72")	1.676 m (5'-6")	2.286 m (7'-6")



REVISIONS	
NAME	DATE

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CITY OF NORTH CHICAGO
MARTIN LUTHER KING JR. DRIVE IMPROVEMENTS

MARTIN LUTHER KING JR. DRIVE
LIGHTING IMPROVEMENTS
LIGHTING DETAILS

SCALE: NTS
DATE: APRIL, 2008
DRAWN BY: KDM
CHECKED BY: JMV

DATE: 7/1/2008
FILENAME: N:\PROJECTS\Designfiles\Highways\Sht-Lgt-Details.dgn