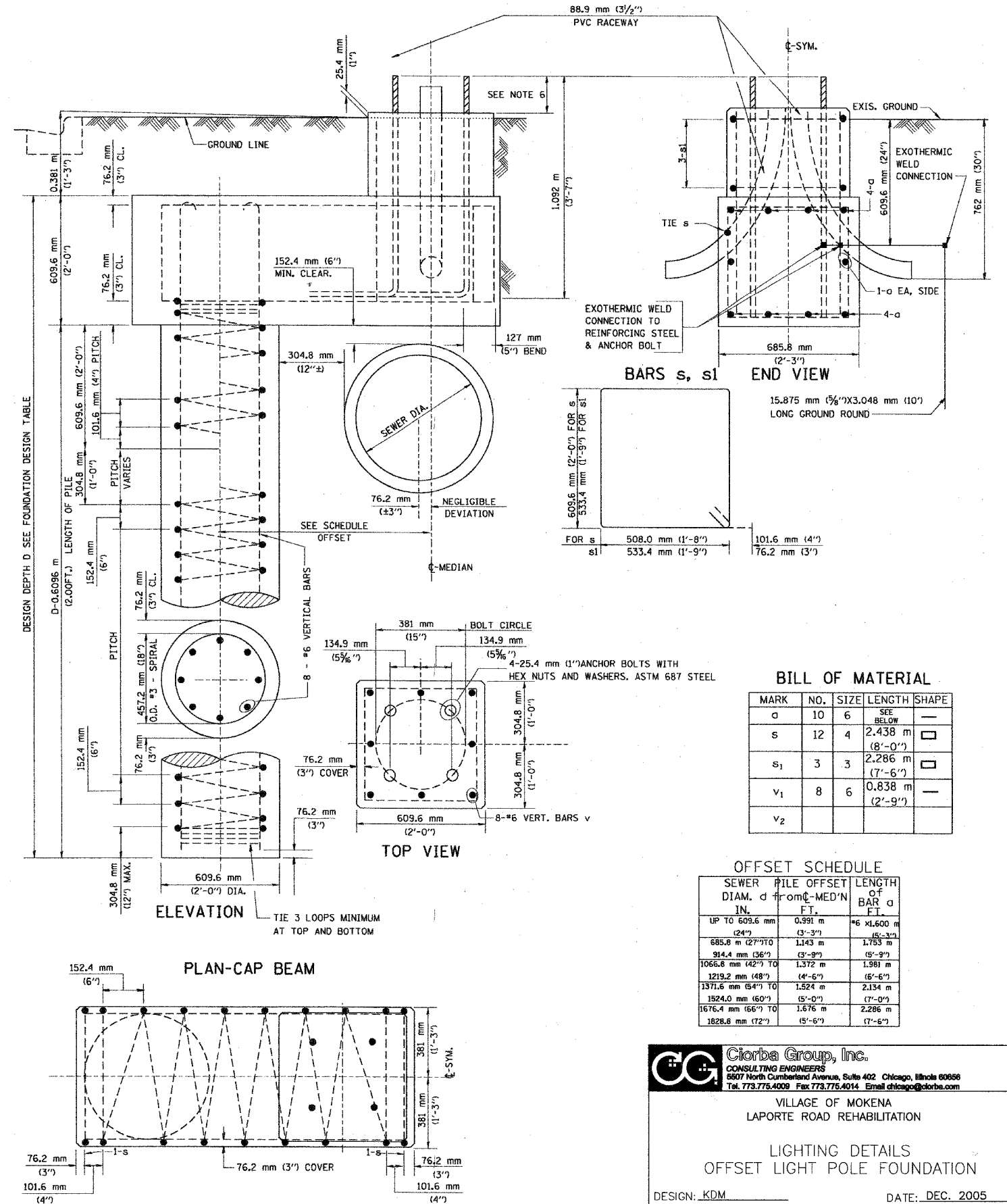


FOUNDATION DESIGN TABLE

TYPE OF SOIL	DESIGN DEPTH OF FOUNDATION		REINFORCEMENT IN FOUNDATION			
	SINGLE ARM D	TWIN ARM D	SINGLE ARM		TWIN ARM	
			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

- THE ENGINEER WILL DETERMINE THE CLASS OF SOIL DURING EXCAVATION AND SELECT THE DESIGN DEPTH OF THE FOUNDATION FROM THE DESIGN TABLE.
- EXCAVATION OF THE POLE FOUNDATION MUST BE MADE WITH AN AUGER, 24" OR 30" IN DIAMETER.
- THE ANCHOR MUST BE A TACK WELDED TYPE BOLT OR HOOK TYPE BOLT. COLD BENDING OF THE HOOK BOLT IS NOT ALLOWED.
- THE ANCHOR BOLTS AND RACEWAYS MUST BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORM.
- 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.
- 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 PROJECT 3" ABOVE TOP OF FOUNDATION. THE CONTRACTOR MUST CONFIRM ANCHOR BOLT EXTENSION WITH ENGINEER.
- THE CONTRACTOR MUST COORDINATE THE ANCHOR BOLT CIRCLE WITH THE LIGHT POLE MANUFACTURER'S RECOMMENDATIONS.
- RACEWAYS MUST PROJECT 1" ABOVE THE TOP OF FOUNDATION.
- CONCRETE SHALL BE CLASS "SI". CONCRETE FOUNDATIONS MUST BE CURED FOR TEN (10) DAYS BEFORE THE LIGHT STANDARD IS ERECTED.
- THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT STANDARD IS ERECTED.



BILL OF MATERIAL

MARK	NO.	SIZE	LENGTH	SHAPE
a	10	6	SEE BELOW	—
s	12	4	2.438 m (8'-0")	□
s <sub>1</sub>	3	3	2.286 m (7'-6")	□
v <sub>1</sub>	8	6	0.838 m (2'-9")	—
v <sub>2</sub>				

OFFSET SCHEDULE

SEWER PILE OFFSET DIAM. d FROM C-MED'N IN.	LENGTH OF BAR a FT.	LENGTH OF BAR a FT.
UP TO 609.6 mm (24")	0.391 m (1'-3")	*6 x 1.600 m (5'-3")
685.8 mm (27 1/8")	1.143 m (3'-9")	1.753 m (5'-9")
914.4 mm (36")	1.372 m (4'-6")	1.981 m (6'-6")
1066.8 mm (42")	1.524 m (5'-0")	2.134 m (7'-0")
1219.2 mm (48")	1.676 m (5'-6")	2.286 m (7'-6")
1371.6 mm (54")	1.828 m (6'-0")	2.438 m (8'-0")
1524.0 mm (60")	1.980 m (6'-6")	2.590 m (8'-6")
1676.4 mm (66")	2.132 m (7'-0")	2.742 m (9'-0")
1828.8 mm (72")	2.284 m (7'-6")	2.894 m (9'-6")

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VILLAGE OF MOKENA  
LAPORTE ROAD REHABILITATION

LIGHTING DETAILS  
OFFSET LIGHT POLE FOUNDATION

DESIGN: KDM DATE: DEC. 2005  
DRAWN: KDM SCALE: NONE  
CHECKED: JMV FILE NO.: 3232