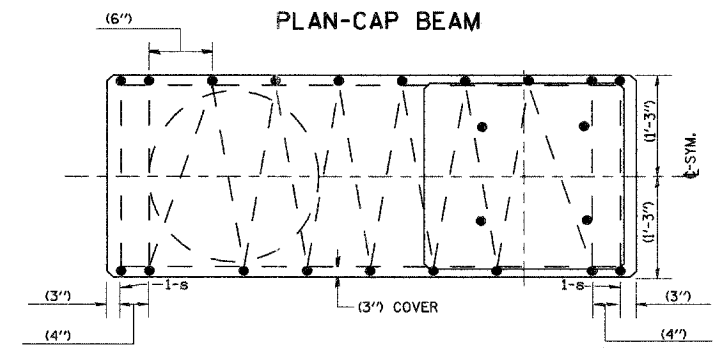


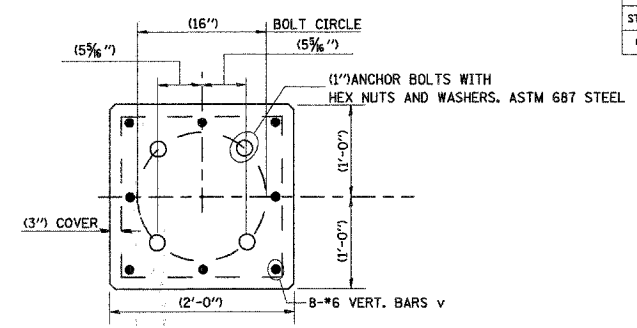
F. & P.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00017-00-PV	KANE	232	150
STA.	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

FOUNDATION DESIGN TABLE

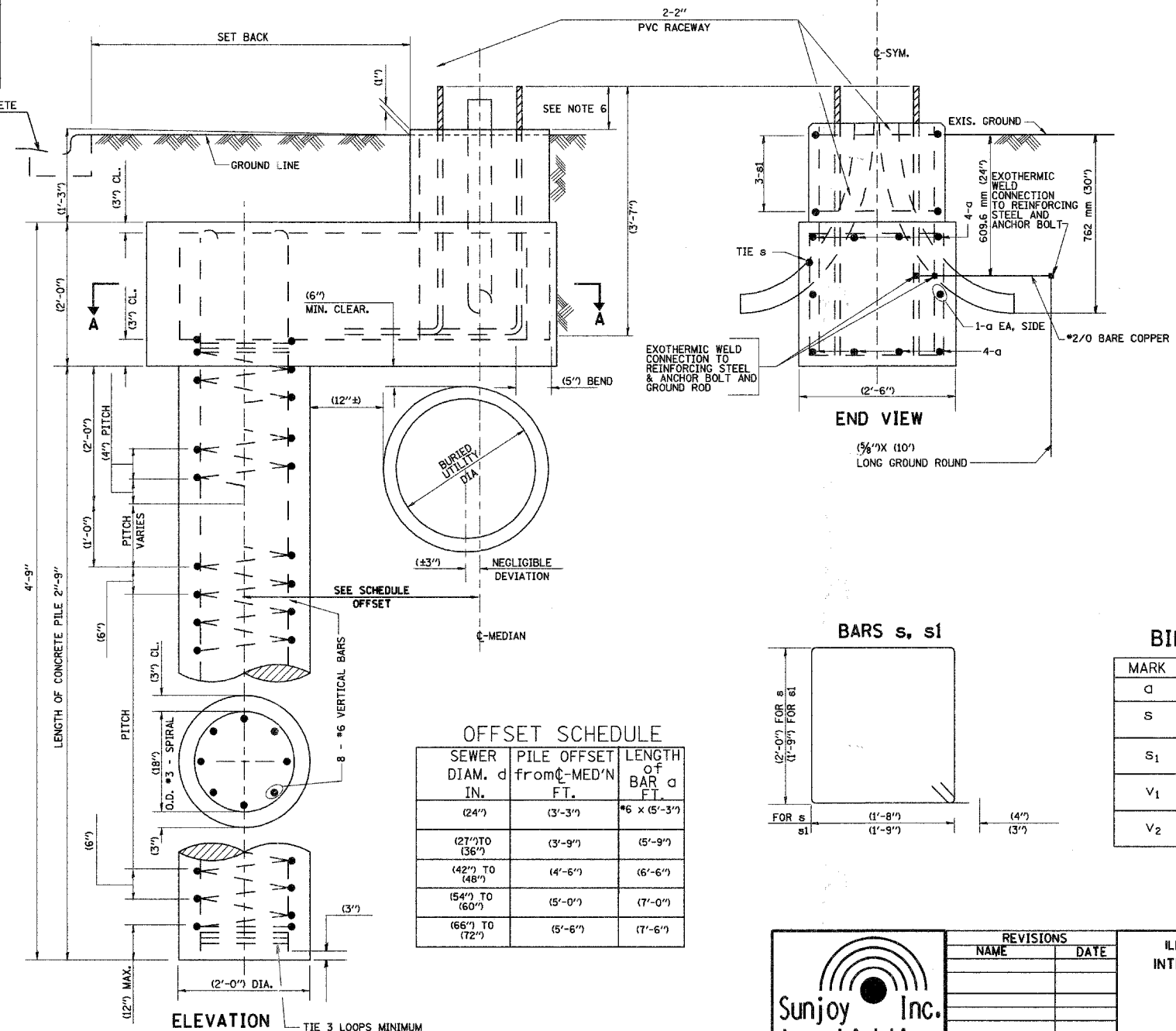
TYPE OF SOIL	DESIGN DEPTH OF FOUNDATION		REINFORCEMENT IN FOUNDATION			
	SINGLE ARM D	TWIN ARM D	SINGLE ARM		TWIN ARM	
			VERT BARS	SPIRAL	VERT BARS	SPIRAL
SOFT CLAY	3.962 m (13'-0")	4.572 m (15'-0")	8-#6X3.810 m (12'-6")	*3X37.186 m (122')	8-#6X4.343 m (14'-3")	*3X42.977 m (141')
MEDIUM CLAY	2.896 m (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



SECTION A-A



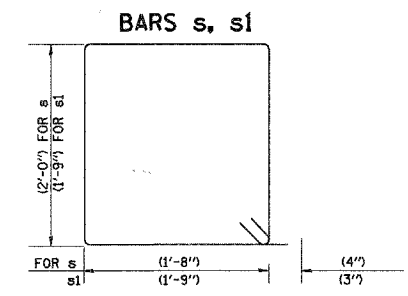
TOP VIEW



ELEVATION

OFFSET SCHEDULE

SEWER DIAM. d IN.	PILE OFFSET from C-MED'N FT.	LENGTH of BAR a FT.
(24")	(3'-3")	*6 x (5'-3")
(27") TO (36")	(3'-9")	(5'-9")
(42") TO (48")	(4'-6")	(6'-6")
(54") TO (60")	(5'-0")	(7'-0")
(66") TO (72")	(5'-6")	(7'-6")



BARS s, s1

BILL OF MATERIAL

MARK	NO.	SIZE	LENGTH	SHAPE
a	10	6	SEE BELOW	—
s	12	4	(8'-0")	□
s1	3	3	(7'-6")	□
v1	8	6	(2'-9")	—
v2				

NOTES

1. THE CONTRACTOR SHALL IDENTIFY IN FIELD BURIED UTILITY CONFLICT FOR THE INSTALLATION OF CONCRETE FOUNDATION. THE ENGINEER SHALL DETERMINE USE OF OFFSET FOUNDATION DESIGN AND LOCATION FOR PILE INSTALLATION.
2. THE SHAFT FOR PILE SHALL BE MADE WITH AN AUGER, (24") IN DIAMETER.
3. THE ANCHOR SHALL BE A TACK WELDED TYPE BOLT OR HOOK TYPE BOLT. COLD BENDING OF THE HOOK BOLT WILL NOT BE ALLOWED.
4. THE ANCHOR BOLTS AND RACEWAYS SHALL 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 SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM DESIGNATION A 153.
6. THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF FOUNDATION WITH THE LIGHT POLE MANUFACTURER'S REQUIREMENTS. THE CONTRACTOR SHALL CONFIRM ANCHOR BOLT EXTENTION WITH ENGINEER.
7. RACEWAYS SHALL PROJECT (1") ABOVE THE TOP OF THE FOUNDATION.
8. CONCRETE SHALL BE CLASS "SI". CONCRETE FOUNDATION MUST BE CURED FOR TEN (10) DAYS BEFORE THE LIGHT STANDARD IS ERECTED.
9. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT POLE IS ERECTED.



REVISIONS

NAME	DATE

DETAILS FROM BEO/IDOT DRAWING #BEG
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 INTERSECTION: GALENA BOULEVARD WITH ILLINOIS ROUTE 47
 OFFSET FOUNDATION
 SCALE: NONE
 DATE: 8-11-07
 DRAWN BY: JKM
 CHECKED BY:

DATE-TIME
 DGN-SPEC
 VI-BEG