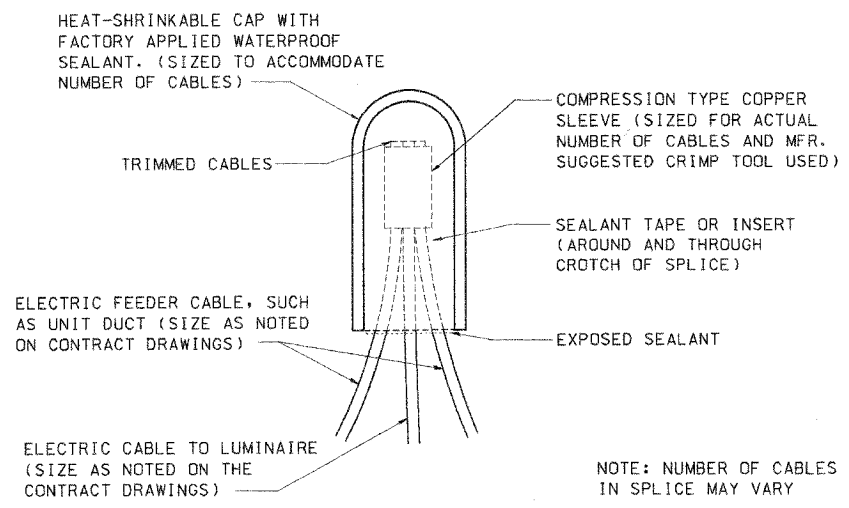


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	99-00232-00-WR	KANE	97	70
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

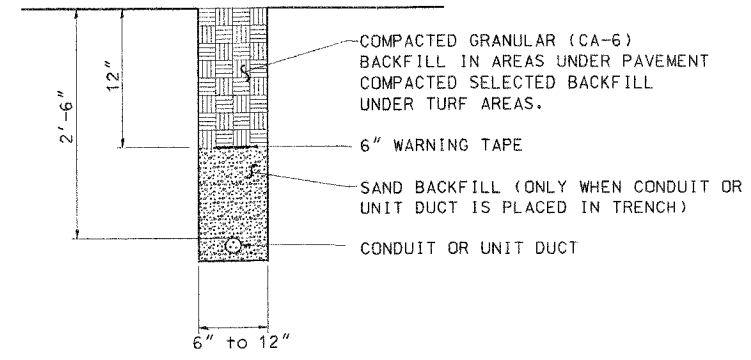
CONTRACT NO. B373B

NOTES: FOUNDATION

1. THE ENGINEER SHALL DETERMINE THE CLASS OF SOIL DURING EXCAVATION AND SELECT THE DESIGN DEPTH OF FOUNDATION FROM THE DESIGN TABLE.
2. THE DESIGN DEPTH "D" OF FOUNDATION SHALL BE ACCORDING TO FIELD CONDITIONS.
3. EXCAVATION OF THE POLE FOUNDATION SHALL BE MADE WITH AN AUGER 24" IN DIAMETER.
4. THE CONTRACTOR SHALL USE #3 SPIRAL AT 6" PITCH OR AT HIS OPTION MAY SUBSTITUTE #3 TIES AT 12" O.C.
5. THE ANCHOR BOLTS TIED WITH REINFORCEMENT AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORM.
6. CONCRETE SHALL BE CLASS "SI". CONCRETE FOUNDATION MUST BE CURED FOR (10) TEN DAYS BEFORE THE LIGHT STANDARD IS ERECTED.
7. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT POLE IS ERECTED.
8. ANCHOR BOLTS PROJECTION ABOVE THE TOP OF THE FOUNDATION SHALL BE ACCORDING TO THE REQUIREMENTS OF POLE MANUFACTURER.
9. RACEWAYS SHALL PROJECT 1" ABOVE THE TOP OF THE FOUNDATION.
10. REINFORCEMENT BARS SHALL COMPLY WITH ARTICLE 1006.10 OF THE STANDARD SPECIFICATION.
11. THE GROUND ROD, REINFORCING BAR AND ANCHOR BOLT SHALL BE TIED WITH #2 COPPER WIRE AND CONNECTION SHALL BE EXOTHERMIC WELD.



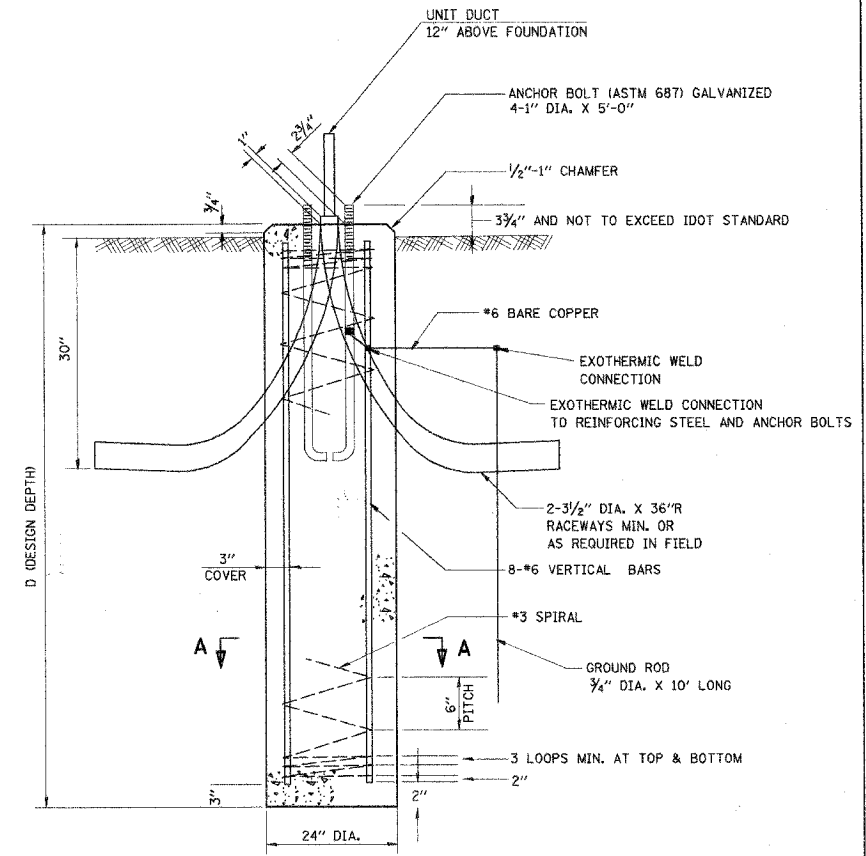
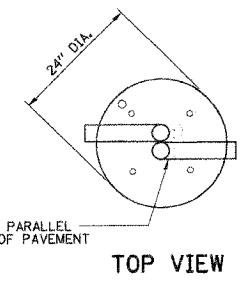
SPLICING ELECTRIC CABLE



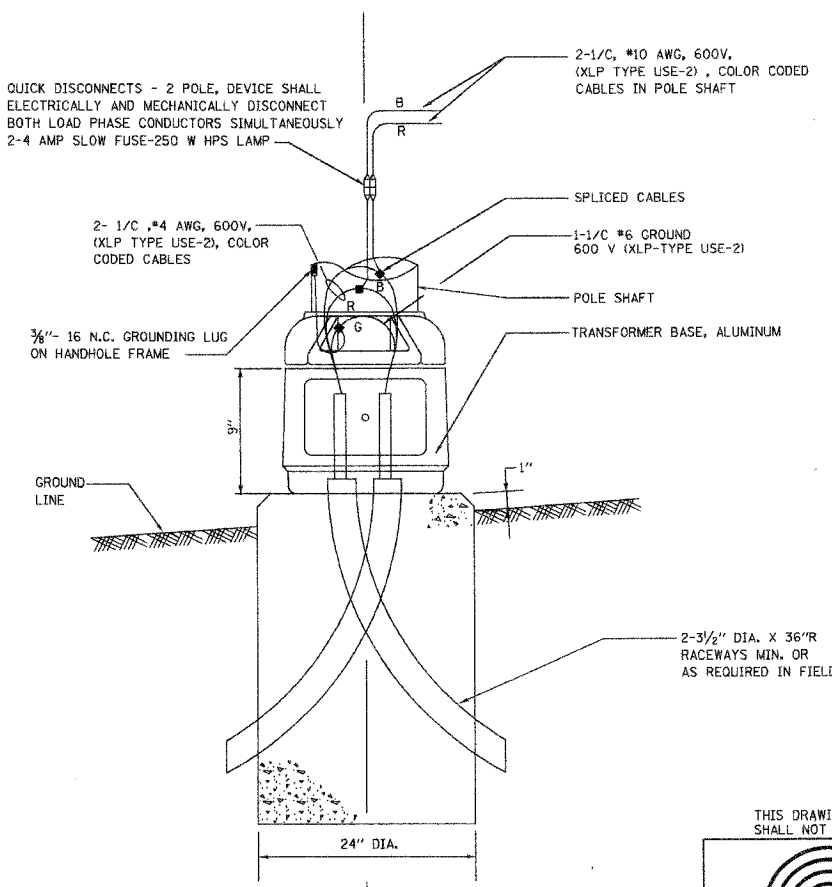
TRENCH AND BACKFILL

FOUNDATION DESIGN TABLE

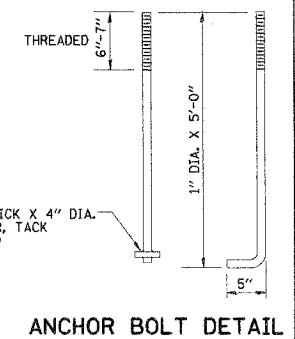
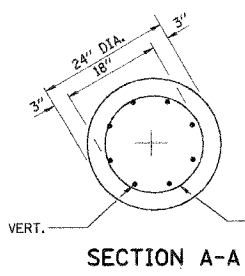
TYPE OF SOIL	DESIGN DEPTH OF FOUNDATION		REINFORCEMENT IN FOUNDATION			
	SINGLE ARM D	TWIN ARM D	SINGLE ARM		TWIN ARM	
			VERT BARS	SPIRAL	VERT BARS	SPIRAL
SOFT CLAY	3.962 m (13'-0")	4.572 m (15'-0")	8-#6x3.810 m (121'-0")	#3x37.186 m (122')	8-#6x4.343 m (14'-3")	#3x42.977 m (141')
MEDIUM CLAY	2.896 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



FOUNDATION DETAIL



POLE BASE WIRING WITH QUICK DISCONNECTS AND BREAKAWAY DEVICE TRANSFORMER BASE, U/L LISTED



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SCHAUMBURG, ILLINOIS
60193-1572

RJN GROUP
RJN GROUP, INC.
CONSULTING ENGINEERS
WHEATON, ILLINOIS

REVISIONS	
NAME	DATE
SUNJOY INC.	10-25-05

ILLINOIS DEPARTMENT OF TRANSPORTATION
KANE COUNTY DIVISION OF TRANSPORTATION
ORCHARD ROAD RECONSTRUCTION
LIGHT POLE, FOUNDATION 24" DIA. AND ELECTRICAL DETAILS

SCALE: VERT. NONE
HORIZ. DATE 04-03-05

DRAWN BY
CHECKED BY