Dist	County	Route	Total Project Units	Sheet	Total Sheets
04	SCI	87	1.1/3.9	284	787

PROJECT ENGINEER — Charles F. Mollin, REGISTERED CIVIL ENGINEER NO. C-33991

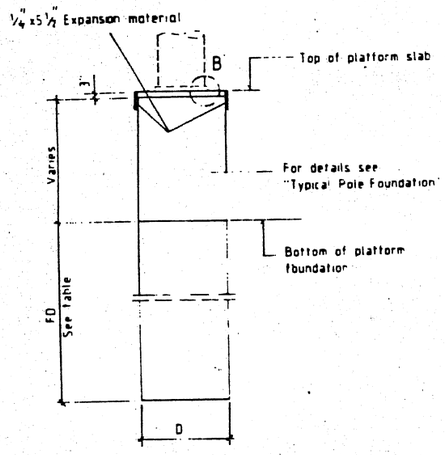
DATE APPROVED 12-5-88

REGISTERED PROFESSIONAL ENGINEER CHARLES F. MOLLIN No. C 33991 12-31-90 CIVIL STATE OF CALIFORNIA

SIEMENS ENERGY AND AUTOMATION, INC
SYSTEMS AND TRANSIT DIVISION
150 Interstate Park Drive
Norcross, Georgia 30077-7150

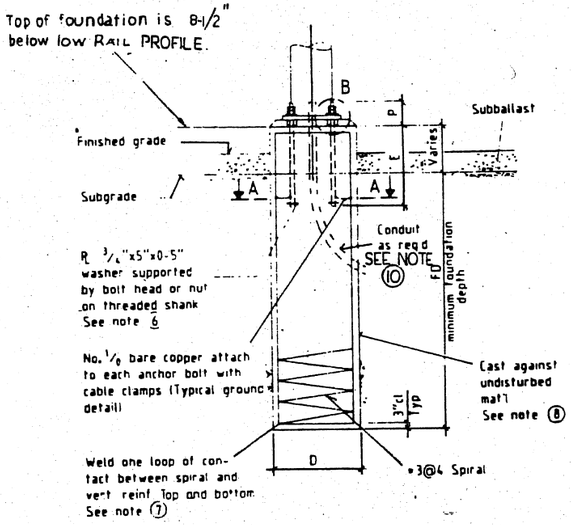
CAST-IN-DRILLED-HOLE POLE FOUNDATION AT PLATFORMS

(FOR SPECIFIC DIMENSIONS SEE TABLE.)

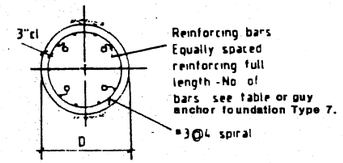


TYPICAL CAST-IN-DRILL HOLE POLE FOUNDATION

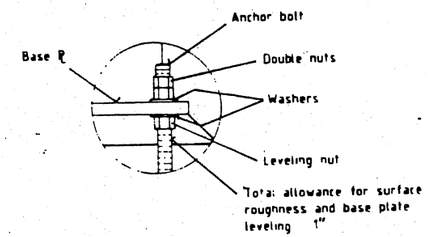
(FOR SPECIFIC DIMENSIONS SEE TABLE)



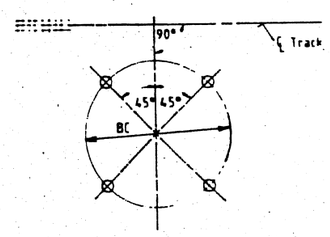
SECTION A-A



DETAIL B

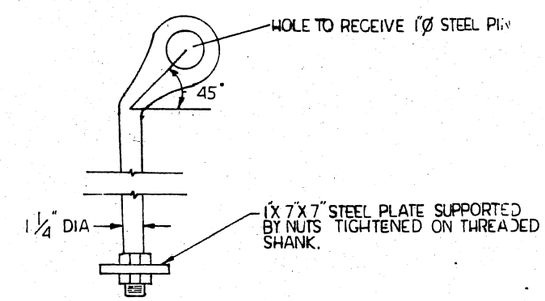


ANCHOR BOLT ORIENTATION



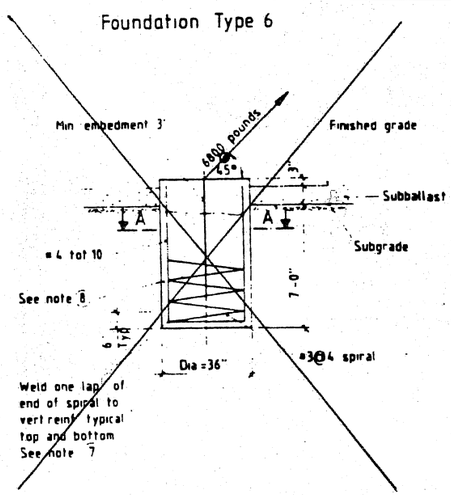
EYE BAR DETAIL

A-36 STEEL

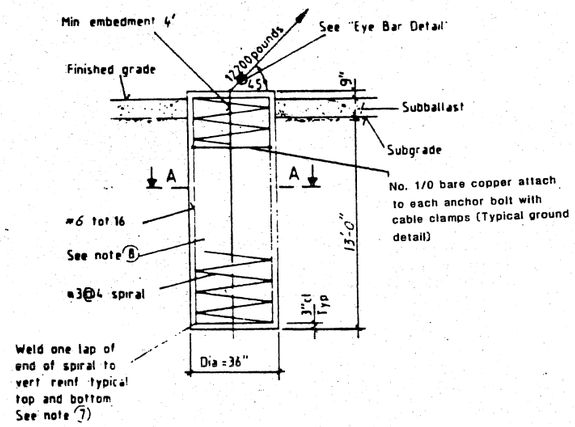


CAST-IN-DRILLED-HOLE GUY ANCHOR

Foundation Type 6



Foundation Type 7



NOTE :

1 Contractor may submit alternative guy anchor details for the engineer's approval

2 All guy line hardware shall have minimum test strengths of twice the forces shown on the plans

3 Anchor bolt steel to be A449 High strength anchor bolts conforming to ductility and toughness requirements of A449 may be substituted with engineers approval

4 All exposed steel to be galvanized

5 Reinforcing steel to be grade 40 or grade 60

6 Intermediate washers (if required) to be spaced at 12" from the lower one. Full strength support by nuts required.

7 Shear strength of welds must be 25 percent of reinforcing bar capacity

8 28-day compressive strength of concrete 3500 psi min

9 Assemblies with pole base cover are not listed, but included.

10 PE12, PF12, PF22, PF23, PE34 FOUNDATIONS REQUIRE CONDUIT.

11 CONTRACTOR SHALL SUPPLY AN ADDITIONAL 2% OF NUTS AND WASHERS FOR EACH SIZE OF TES. POLE FOUNDATION BOLTS, BUT NO LESS THAN 10 EXTRA OF EA.

12 ANCHOR BOLTS OR RODS SHALL BE FULLY THREADED.

CAST-IN-DRILLED-HOLE POLE FOUNDATION TABLE

	TES POLE ASSEMBLY CODE (9)	FD ft	D in	REINFORCING Size	REINFORCING Tot	DIA OF ANCHOR BOLT CIRCLE "BC"	BOLT DIA	BOLT PROJECTION P	BOLT EMBEDMENT E MIN	NUMBER OF ANCHORING WASHERS (6)
	PA11	10'	36"	#9	12	16"	1.75"	8"	36"	1
	~~PA31, PE31, PF31, PJ41~~	~~8'~~	~~36"~~	~~#6~~	~~12~~	~~16"~~	~~1.5"~~	~~8"~~	~~36"~~	~~1~~
	PA12, PE12, PF12, PF22	14'	36"	#9	12	16"	1.75"	9"	48"	1
	PP22	14	36"	#9	12	22"	2.0"	9"	48"	1
	PA13, PF23, PP23	20'	36"	#9	16	22"	2.0"	11"	48"	1
	PA31	11'	36"	#9	12	16"	1.75"	8"	36"	1
	PA34, PE34	21'	42"	#9	16	22"	2.5"	12"	60"	1

REDUCED PLAN
USE SCALE BELOW
0 1 2 3
3 INCHES ON ORIGINAL PLAN

LIGHT RAIL FOUNDATION DETAILS

LR-39

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

487141