DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER

July 1, 2002
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Jeffrey B. Woody
No. C41260
Exp. 3-31-03
CIVIL
STATE OF CALIFORNIA

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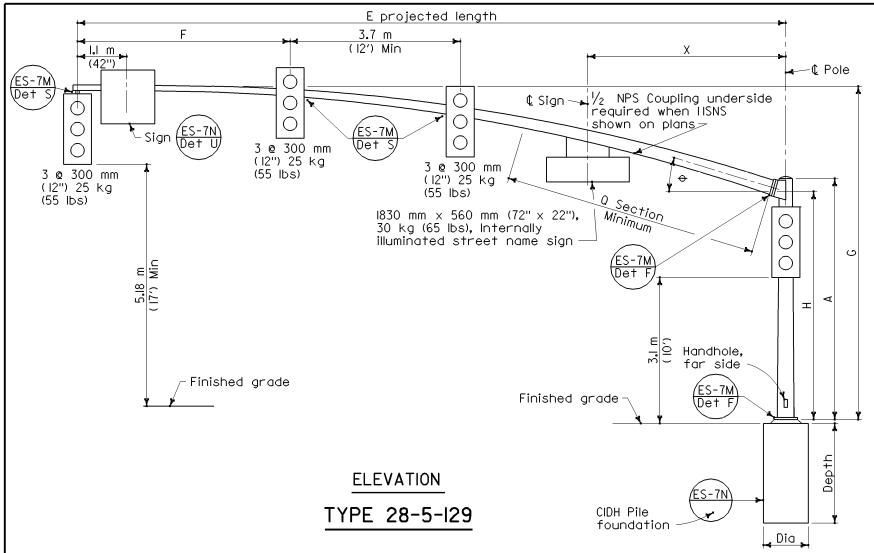
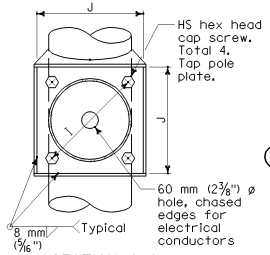
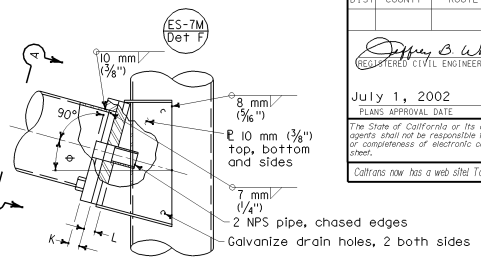


ELEVATION

TYPE 28-5-129

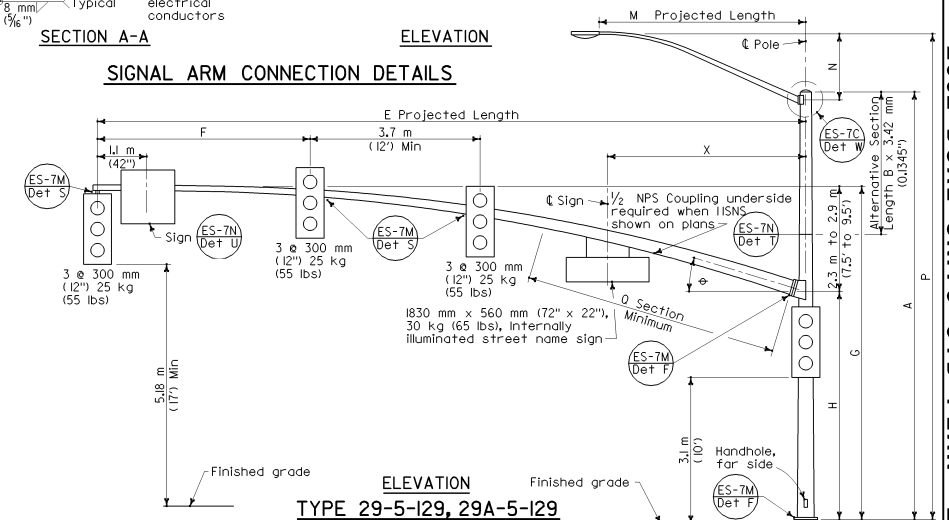


SECTION A-A



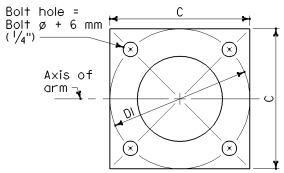
ELEVATION

SIGNAL ARM CONNECTION DETAILS



ELEVATION

TYPE 29-5-129, 29A-5-129



BASE PLATE

LUMINAIRE ARM DATA					
M Projected Length	N Rise	Min OD at Pole	Thickness	P Mounting Height: 9.1 m (30') Pole	P Mounting Height: 10.7 m (35') Pole
1.8 m (6')	610 mm (24") ±	83 mm (3¼")	3.04 mm (0.1196")	9.6 m (31.5') ±	11.1 m (36.4') ±
2.4 m (8')	760 mm (30") ±	89 mm (3½")		9.8 m (32.2') ±	11.3 m (37.1') ±
3.1 m (10')	990 mm (39") ±	98 mm (3⅜")		10.0 m (32.8') ±	11.5 m (37.7') ±
3.7 m (12')	1290 mm (51") ±			10.3 m (33.8') ±	11.9 m (38.7') ±
4.6 m (15')	1450 mm (57") ±	108 mm (4¼")		10.5 m (34.4') ±	12.0 m (39.4') ±

Pole Type	Load Case	Wind Velocity	POLE DATA: A Height	Min OD: Base	Min OD: Top	Thickness	Alternative Section: B Length	Alternative Section: Bottom	Alternative Section: Top	BASE PLATE DATA: C	DI Bolt Circle	Thickness	Anchor Bolts: Size	Luminaire Arm (See Luminaire Arm Data)	Signal Arm (See Signal Arm Data)	CIDH PILE FOUNDATION: Dia	Depth	Reinforced
28-5-129	5	129 km/h (80 mph)	5.2 m (17')	356 mm (14")	297 mm (11 11/16")	7.94 mm (0.3125")	None			533 mm (21")	533 mm (21")	45 mm (1¾")	51 mm ø x 1067 mm x 152 mm (2" ø x 42" x 6")	None	15.2 m (50') or 16.8 m (55')	914 mm (36")	2.8 m (9.2')	Yes
29-5-129			9.1 m (30')		251 mm (9⅞")		3.1 m (10')	286 mm (11¼")	251 mm (9⅞")					4.6 m (15')*				
29A-5-129			10.7 m (35')		233 mm (9 3/16")		4.6 m (15')		233 mm (9 3/16")	559 mm (22")	559 mm (22")				15.2 m (50')			

* Indicates arm length to be used unless otherwise noted on plans.

SIGNAL ARM DATA														
E Projected Height	F Min Spacing	G Mounting Height	H	Min OD at Pole	Thickness	I Bolt Circle	HS Cap Screws	J Plate Size	K Arm ℄ Thickness	L Pole ℄ Thickness	θ	O Section: Length	O Section: Thickness	X Max
15.2 m (50')	4.6 m (15')	7.0 m (23.0') ±	4.9 m (16')	291 mm (11 11/16")	4.55 mm (0.1793")	4.00 mm (15¾")	38 mm-6NC-83 mm (1½"-6NC-3¼")	381 mm (15")	45 mm (1¾")	45 mm (1¾")	15°	5.5 m (18')	6.1 mm (0.239")	4.3 m (14')
16.8 m (55')				305 mm (12")								7.0 m (23')		

HIGH STRENGTH CAP SCREWS

16 mm (5/8") - 11NC - 45 mm (1¾")

- Length, mm (inches)
- Threads per inch
- Size, mm (inches)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

SIGNAL AND LIGHTING STANDARDS
CASE 5 ARM LOADING
WIND VELOCITY=129 km/h (80 MPH)
ARM LENGTHS 15.2 m-16.8 m (50'-55')

These "Standard Plans for Construction of Local Streets and Roads" contain units in two systems of measurement: International System of Units (SI or "metric") and United States Standard Measures shown in the parentheses ( ). The measurements expressed in the two systems are not necessarily equal or interchangeable. See the "Foreword" at the beginning of this publication.

NO SCALE

ES-7G

2002 DUAL UNITS STD PLAN ES-7G