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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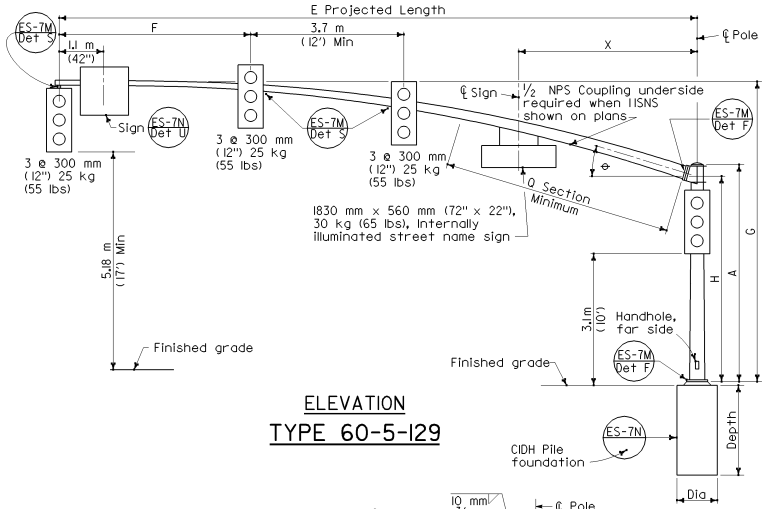
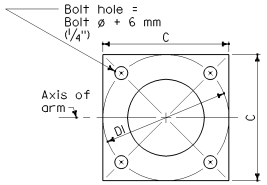


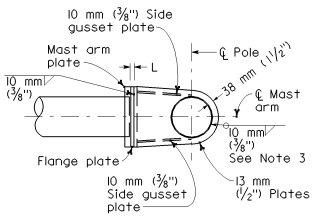
ELEVATION

TYPE 60-5-129

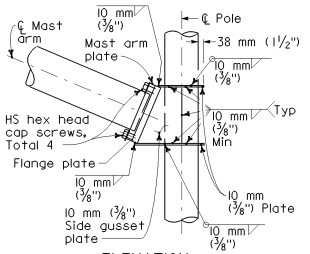
LUMINAIRE ARM DATA					
M Projected Length	N Rise	Min OD at Pole	Thickness	P Mounting Height 9.1 m (30') Pole	P Mounting Height 10.7 m (35') Pole
1.8 m (6')	610 mm (24") ±	83 mm (3¼")	3.04 mm (0.1196")	9.6 m (31.5') ±	11.1 m (36.4') ±
2.4 m (8')	760 mm (30") ±	89 mm (3½")		9.8 m (32.2') ±	11.3 m (37.1') ±
3.1 m (10')	990 mm (39") ±	98 mm (3⅞")		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') ±



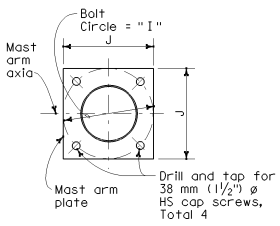
BASE PLATE



PLAN



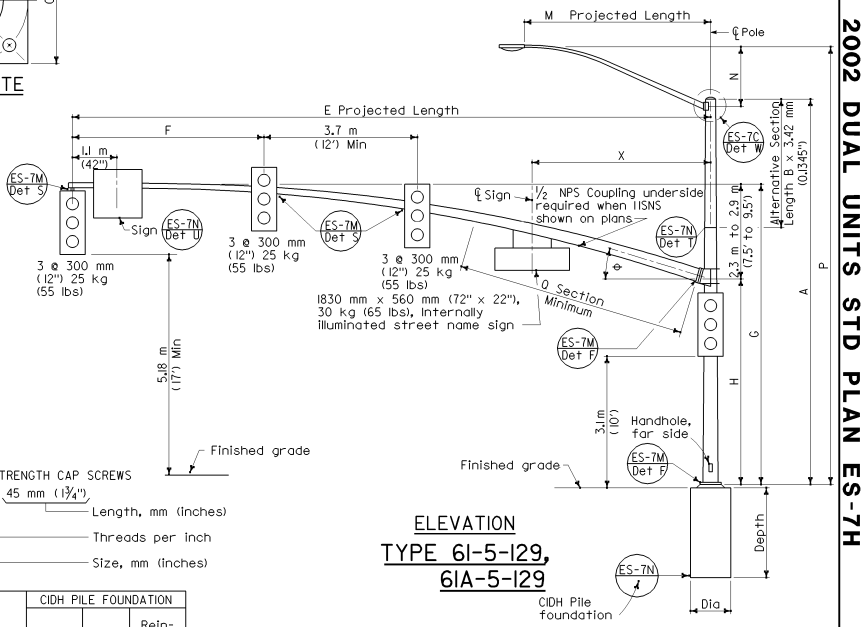
ELEVATION



MAST ARM PLATE

SINGLE ARM CONNECTION DETAIL

NOTE:
The radial separation between the face of the pole and the adjacent insides of the top and bottom gusset plates shall not exceed 5 mm (⅜"). Fillet weld size to be increased by amount of gap.



ELEVATION

TYPE 61-5-129, 61A-5-129

HIGH STRENGTH CAP SCREWS

16 mm (⅝") - 11NC - 45 mm (1¾")
- Length, mm (inches)
- Threads per inch
- Size, mm (inches)

Pole Type	Load Case	Wind Velocity	POLE DATA: A Height	POLE DATA: Min OD Base	POLE DATA: Min OD Top	POLE DATA: Thickness	BASE PLATE DATA: C	BASE PLATE DATA: DI Bolt Circle	BASE PLATE DATA: Thickness	BASE PLATE DATA: Anchor Bolts Size	Luminaire Arm (See Luminaire Arm Data)	Signal Arm (See Signal Arm Data)	CIDH PILE FOUNDATION: Dia	CIDH PILE FOUNDATION: Depth	CIDH PILE FOUNDATION: Reinforced
60-5-129	5	129 km/h (80 mph)	5.2 m (17')	406 mm (16")	347 mm (13 11/16")	7.94 mm (0.3125")	584 mm (23")	584 mm (23")	51 mm (2")	57 mm ø x 1524 mm x 152 mm (2¼" ø x 60" x 6")	None	18.2 m (60') or 19.8 m (65')	914 mm (36")	4.9 m (16')	Yes
61-5-129			9.1 m (30')		301 mm (11⅞")						4.6 m (15')*				
61A-5-129			10.7 m (35')		282 mm (11")							19.8 m (65')			

*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	Q Section Length	Q Section Thickness	X Max
18.2 m (60')	4.6 m (15')	7.0 m (23') ±	4.9 m (16')	343 mm (13½")	4.6 mm (0.1793")	508 mm (20")	38 mm-6NC-102 mm (1½"-6NC-4")	508 mm (20")	51 mm (2")	51 mm (2")	15°	7.3 m (24')	6.1 mm (0.2391")	4.3 m (14')
19.8 m (65')					7.9 mm (0.3125")							8.8 m (29')	7.9 mm (0.3125")	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

SIGNAL AND LIGHTING STANDARDS
CASE 5 ARM LOADING
WIND VELOCITY=129 km/h (80 mph)
ARM LENGTHS 18.2 m-19.8 m (60'-65')

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-7H

2002 DUAL UNITS STD PLAN ES-7H