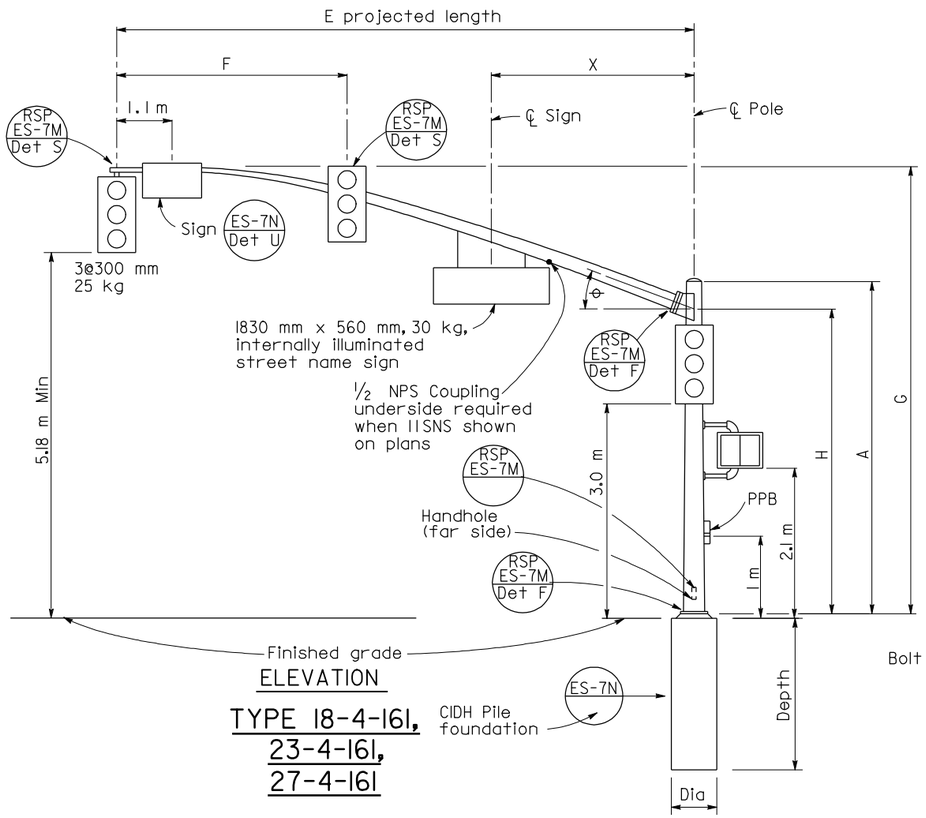


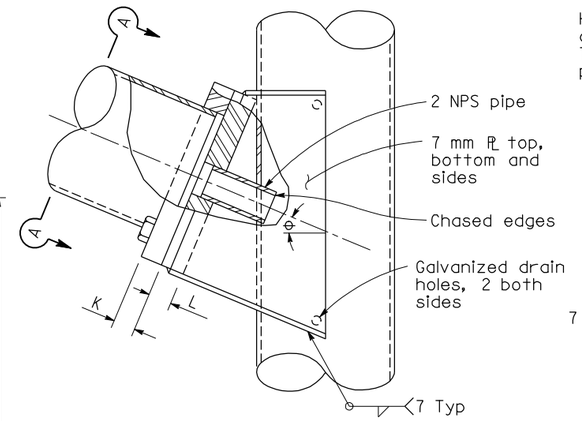
ELEVATION

TYPE 18-4-16I, 23-4-16I, 27-4-16I

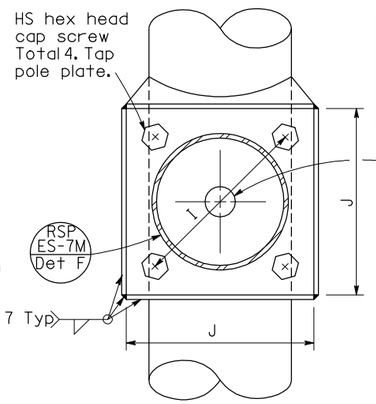
HIGH STRENGTH CAP SCREWS

16 - IINC - 45

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

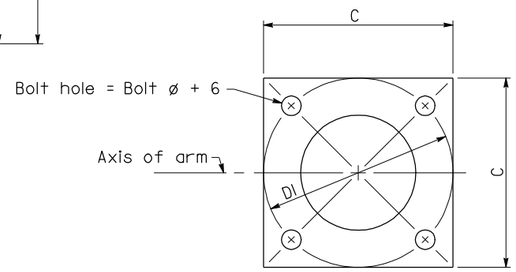


ELEVATION

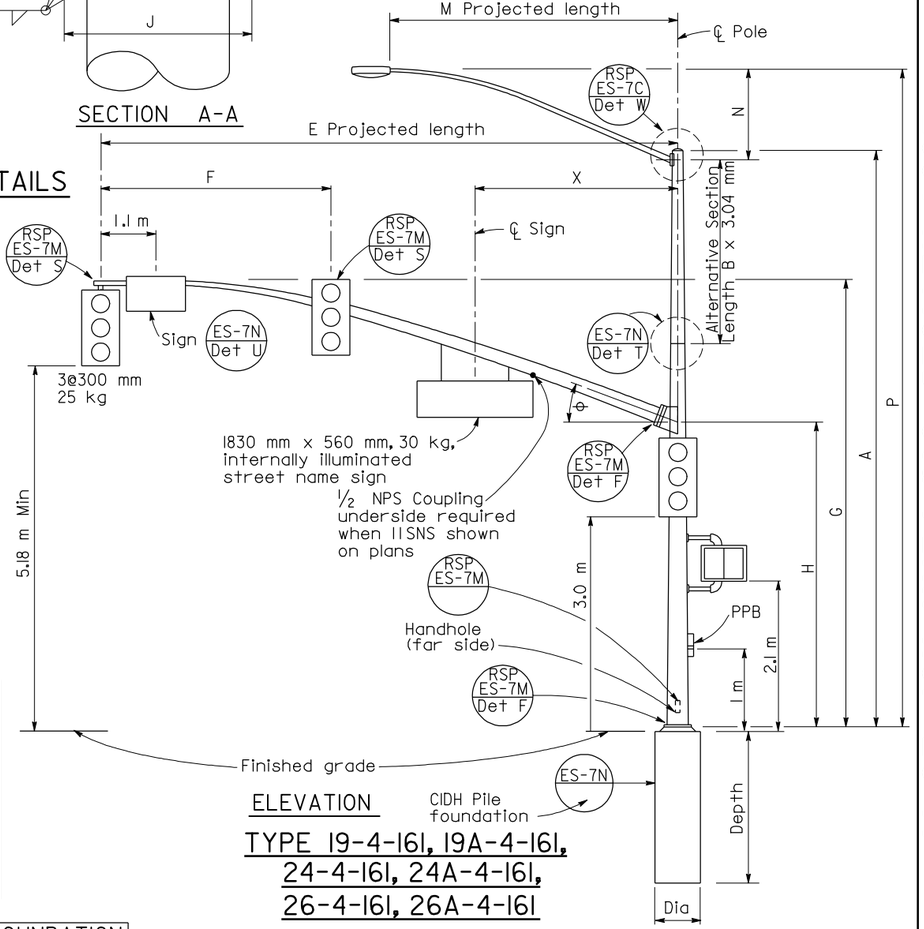


SECTION A-A

SIGNAL ARM CONNECTION DETAILS



BASE PLATE



ELEVATION

TYPE 19-4-16I, 19A-4-16I, 24-4-16I, 24A-4-16I, 26-4-16I, 26A-4-16I

SIGNAL ARM DATA

E Projected Length	F Min Spacing	G Mounting Height	H	Min OD At Pole	Thickness	I Bolt Circle	HS Cap Screws	J Plate Size	K Arm PL Thickness	L Pole PL Thickness	⊖	X Max
m				mm								m
7.6	3.1	6.9 ±	4.9	186	6.07	305	32-7NC-76	305	32	38	23°	3.2
9.1	3.7	7.0 ±		203								
10.7	4.3			221		343		343	38	45	21°	
12.2	4.6			238							15°	4.0
13.7		7.2 ±		260								

LUMINAIRE ARM DATA

M Projected Length	N Rise	Min OD at Pole	Thickness	P Mounting Height 9.1 Pole	P Mounting Height 10.7 Pole
m	mm			m	
1.8	610 ±	83	3.04	9.5 ±	11.1 ±
2.4	760 ±	89		9.7 ±	11.3 ±
3.1	990 ±	98		9.9 ±	11.5 ±
3.7	1290 ±			10.2 ±	11.8 ±
4.6	1450 ±	108		10.4 ±	12.0 ±

Pole Type	Load Case	Wind Velocity km/h	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	Dl Bolt Circle	Thickness	Anchor Bolts Size	Luminaire Arm	Signal Arm	CIDH PILE FOUNDATION Diameter	Depth	Reinforced
			m	mm			m	mm		mm				m		mm	m	
18-4-16I	4	16I	5.2	305	229	6.07	None			457	457	38	51ø x 1067 x 152	None	10.7	914	2.7	Yes
19-4-16I			9.1		203		3.1	238	203					1.8-4.6 [3.7]				
19A-4-16I			10.7		186		4.6		186					1.8-4.6 [4.6]				
23-4-16I			5.2		229		None							None				
24-4-16I			9.1		203		3.1	238	203					1.8-4.6 [3.7]				
24A-4-16I			10.7		186		4.6		186					1.8-4.6 [4.6]				
26-4-16I			9.1	318	203	7.94	3.1	248	213					1.8-4.6 [3.7]				
26A-4-16I			10.7		186		4.6		196					1.8-4.6 [4.6]				
27-4-16I			5.2		248		None							None				

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

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

Caltrans Metric

REGISTERED CIVIL ENGINEER

October 5, 2007
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Stanley P. Johnson — No. C57793 — Exp. 3-31-08 — CIVIL — STATE OF CALIFORNIA

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To accompany plans dated _____

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SIGNAL AND LIGHTING STANDARD CASE 4 ARM LOADING WIND VELOCITY=161 km/h ARM LENGTHS 7.6 m TO 13.7 m)

NO SCALE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

RSP ES-7F DATED OCTOBER 5, 2007 SUPERSEDES RSP ES-7F DATED JANUARY 24, 2005 AND STANDARD PLAN ES-7F DATED JULY 1, 2004-PAGE 456 OF THE STANDARD PLANS BOOK DATED JULY 2004.

REVISED STANDARD PLAN RSP ES-7F

2004 REVISED Std PLAN RSP ES-7F

6-19-07