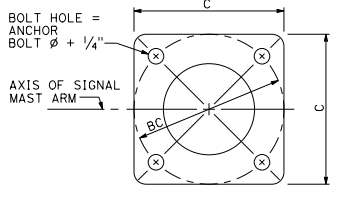
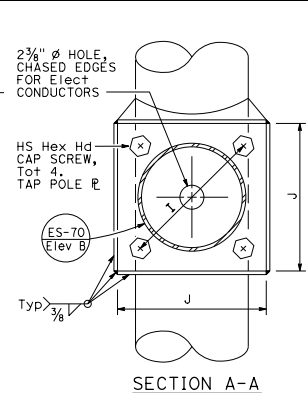


TYPE 16-2-100, 18-2-100

ELEVATION A



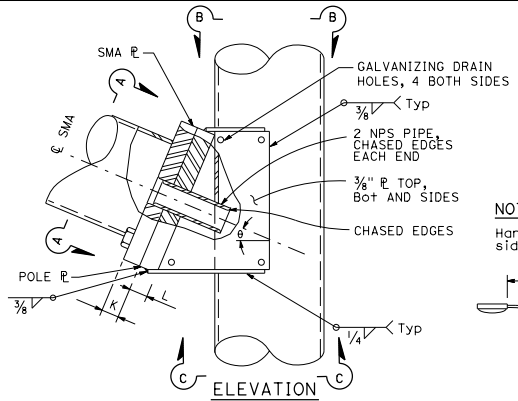
BASE PLATE
DETAIL B



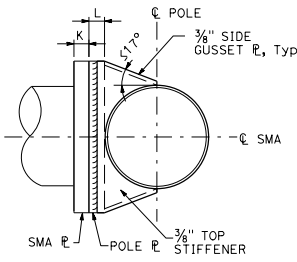
SECTION A-A

SIGNAL MAST ARM CONNECTION

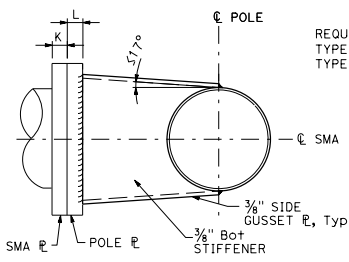
DETAIL A



ELEVATION



SECTION B-B



SECTION C-C

E PROJECTED LENGTH	G MOUNTING HEIGHT	H	Min OD AT POLE	THICKNESS	I BOLT CIRCLE	HS CAP SCREWS	J PLATE SIZE	K MAST ARM THICKNESS	L POLE THICKNESS	θ	X Max
15'-0"	21'-8"±	17'-6"	7 3/8"	0.1793"	12"	1 1/4"-7NC-3"	1'-1"	1/4"	1 1/2"	23°	10'-6"
20'-0"	21'-8"±	8"	1'-3"				10'-6"				
25'-0"	22'-8"±	9"	10'-6"								
19-2-100	22'-8"±	16'-0"	9"				10'-6"				
30'-0"	23'-0"±	10"	0.2391"				10'-6"				

M PROJECTED LENGTH	N RISE	Min OD AT POLE	THICKNESS	P MOUNTING HEIGHT
6'-0"	2'-0"±	3/4"	0.1196"	30'-0" POLE
8'-0"	2'-6"±	3/4"		35'-0" POLE
10'-0"	3'-3"±	3/8"		31'-6"±
12'-0"	4'-3"±	3/8"		36'-6"±
15'-0"	4'-9"±	4/4"		32'-0"±
				37'-0"±
				32'-9"±
				37'-9"±
				33'-9"±
				38'-9"±
			34'-3"±	
			39'-3"±	

POLE TYPE	LOAD CASE	WIND VELOCITY (mph)	POLE DATA				BASE PLATE DATA				LUMINAIRE MAST ARM	SIGNAL MAST ARM	CIDH PILE FOUNDATION													
			A HEIGHT	Min OD BASE	Min OD TOP	THICKNESS	B LENGTH	BOTTOM	TOP	C			BC = BOLT CIRCLE	THICKNESS	ANCHOR BOLT SIZE	Dia	DEPTH									
16-2-100	2	100	18'-6"	11 3/8"	0.2391" OR 0.25"	10'-0"	11 1/8"	9 3/4"	1'-10"	1'-8"	2 1/2"	2"Ø x 42"	None	15'-0", 20'-0"	3'-6"	10'-0"										
17-2-100			30'-0"	9"													15'-0"	11"	1'-11"	1'-9"	3"	2 1/4"Ø x 42"	6'-15" 12'-0"	25'-0", 30'-0"	12'-0"	
17A-2-100			35'-0"	9"													15'-0"	11 1/8"	11"	1'-11"	1'-9"	3"	2 1/4"Ø x 42"	6'-15" 15'-0"	25'-0", 30'-0"	12'-0"
18-2-100			17'-0"	11 3/8"													10'-0"	11 1/8"	9 3/4"	1'-11"	1'-9"	3"	2 1/4"Ø x 42"	6'-15" 12'-0"	25'-0", 30'-0"	12'-0"
19-2-100			30'-0"	9"													15'-0"	11 1/8"	11"	1'-11"	1'-9"	3"	2 1/4"Ø x 42"	6'-15" 15'-0"	25'-0", 30'-0"	12'-0"
19A-2-100			35'-0"	11"													15'-0"	13 1/8"	11"	1'-11"	1'-9"	3"	2 1/4"Ø x 42"	6'-15" 15'-0"	25'-0", 30'-0"	12'-0"

INDICATES MAST ARM LENGTH TO BE USED UNLESS OTHERWISE NOTED ON PLANS.

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

Stanley P. Johnson
REGISTERED CIVIL ENGINEER

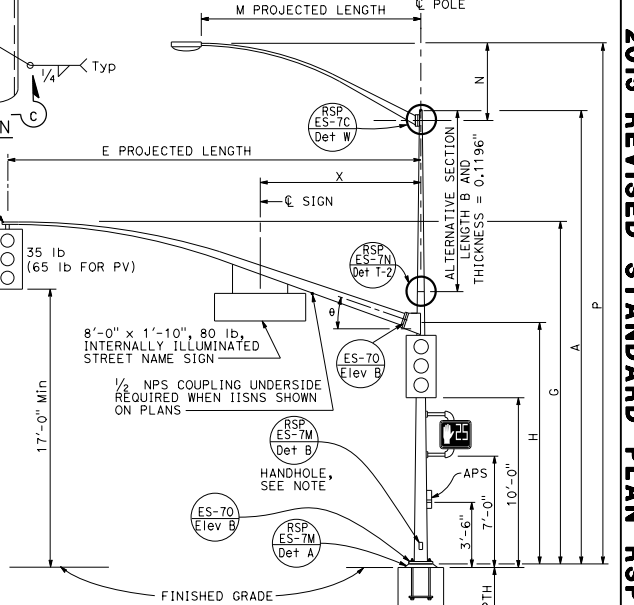
July 21, 2017
PLANS APPROVAL DATE

Stanley P. Johnson
No. C61793
Exp. 3-31-18
CIVIL

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE: TO ACCOMPANY PLANS DATED _____
Handhole shall be located on the downstream side of traffic.



TYPE 17-2-100, 17A-2-100,
19-2-100, 19A-2-100

ELEVATION B

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**ELECTRICAL SYSTEMS
(SIGNAL AND LIGHTING STANDARD,
CASE 2 SIGNAL MAST ARM LOADING,
WIND VELOCITY=100 MPH AND SIGNAL
MAST ARM LENGTHS 15' TO 30')**

NO SCALE

RSP ES-7D DATED JULY 21, 2017 SUPERSEDES RSP ES-7D DATED JULY 15, 2016 STANDARD PLAN ES-7D DATED OCTOBER 30, 2015 - PAGE 459 OF THE STANDARD PLANS BOOK DATED 2015.

REVISED STANDARD PLAN RSP ES-7D

2015 REVISED STANDARD PLAN RSP ES-7D