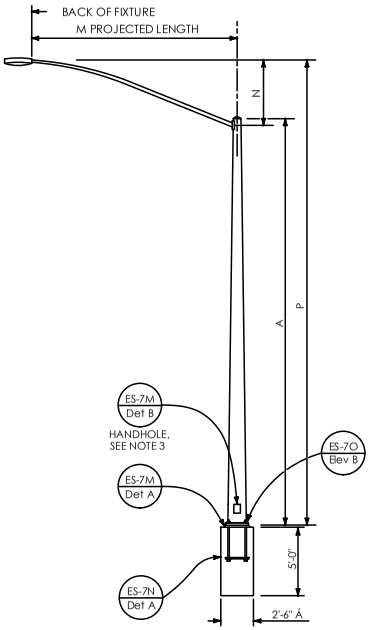
CITY OF NAPA

PUBLIC WORKS DEPARTMENT

CALTRANS STANDARD PLAN ES-6A

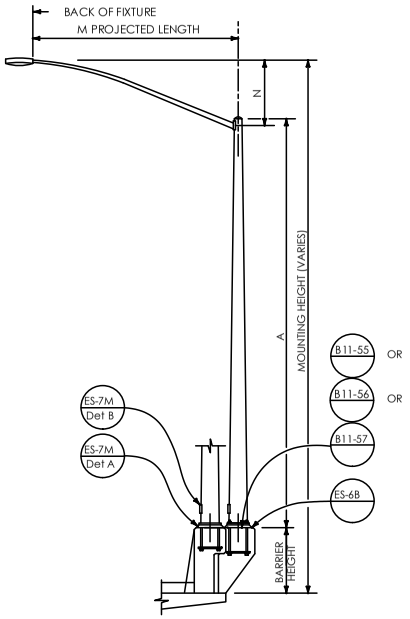
ELECTRICAL SYSTEMS

DRAWN BY:	BRL
APPROVAL DATE:	06/2018
SCALE:	NONE
REVISED DATE:	08/2021
CHECKED BY:	SEC
APPROVED BY:	JRL
DRAWING NO.	E-3



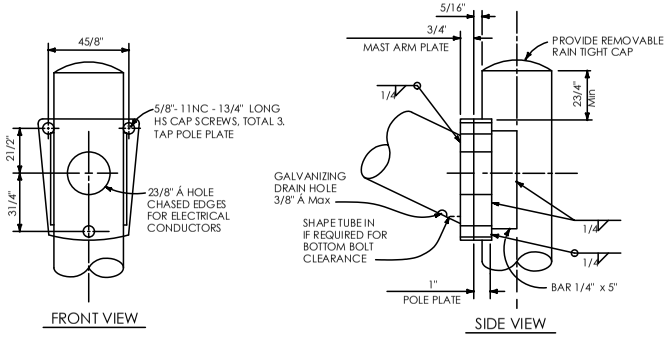
TYPE 15 AND TYPE 21

ELEVATION A



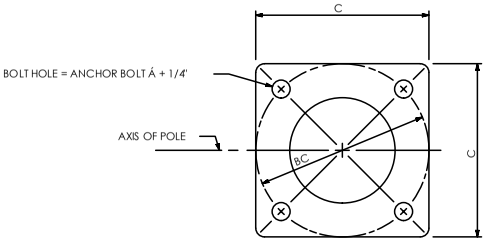
TYPE 15 AND TYPE 21 BARRIER RAIL MOUNTED

ELEVATION B



LUMINAIRE MAST ARM CONNECTION

DETAIL R



BASE PLATE

DETAIL A

POLE TYPE	POLE DATA				BASE PLATE DATA			
	A HEIGHT	Min OD BASE	Min OD TOP	WALL THICKNESS	C	BC = BOLT CIRCLE	THICKNESS	ANCHOR BOLT SIZE
15	30'-0"	8"	311/16"	0.1196"	1'-0"	1'-0"	2"	1" Á x 3'-0" *
21	35'-0"	85/8"	39/16"	0.1793"				11/4" Á x 3'-0" *

* FOR BARRIER RAIL BOLTS, SEE STANDARD PLAN ES-6B.

LUMINAIRE MAST ARM DATA					
M PROJECTED LENGTH	N RISE	Min OD AT POLE	NOMINAL THICKNESS	P TYPE 15	P TYPE 21
6'-0"	2'-0"±	31/4"	0.1196"	31'-6"±	36'-6"±
8'-0"	2'-6"±	31/2"		32'-0"±	37'-0"±
10'-0"	3'-3"±	37/8"		32'-9"±	37'-9"±
12'-0"	4'-3"±			33'-9"±	38'-9"±
15'-0"	4'-9"±	41/4"		34'-3"±	39'-3"±

NOTES:

1. ☐ Indicates mast arm length to be used unless otherwise noted on the plans.
2. For Type 15-SB, use Type 15 standard with Type 30 slip base plate details, see Standard Plan ES-6F.
3. Handhole shall be located on the downstream side of traffic.
4. For additional notes and details, see Standard Plans ES-7M and ES-7N.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS
(LIGHTING STANDARD,
TYPES 15 AND 21)

NO SCALE

ES-6A

9-22-15

2015 STANDARD PLAN ES-6A

NOTE:
APPROVAL FROM CITY OF NAPA ENGINEER REQUIRED.
SUBMIT SHOP DRAWINGS & SPECIFICATIONS FOR REVIEW.