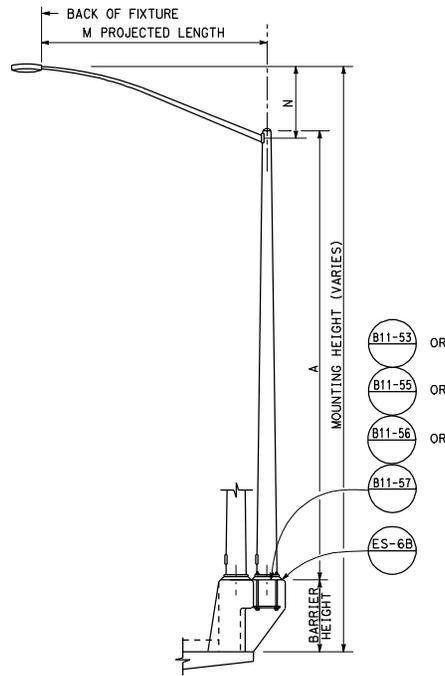


**TYPE 15 AND TYPE 21
ELEVATION A**



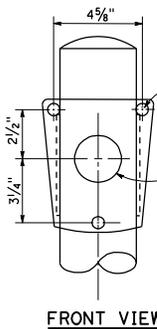
**TYPE 15 AND TYPE 21 BARRIER RAIL MOUNTED
ELEVATION B**

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

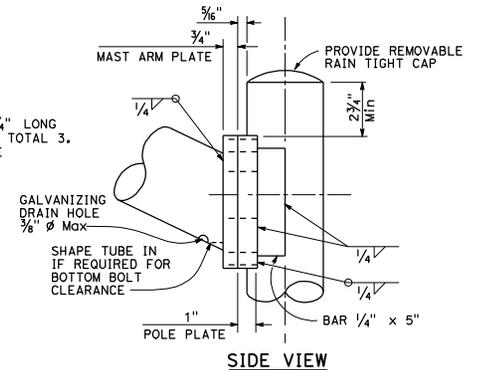
* FOR BARRIER RAIL BOLTS, SEE STANDARD PLAN ES-6B.

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.

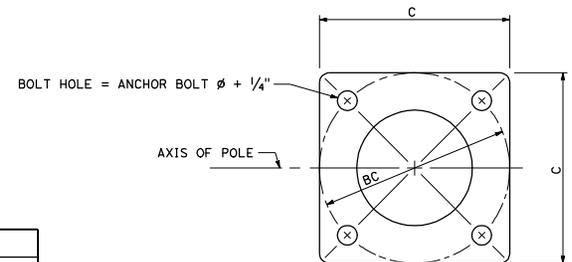


FRONT VIEW



SIDE VIEW

**LUMINAIRE MAST ARM CONNECTION
DETAIL R**



**BASE PLATE
DETAIL A**

LUMINAIRE MAST ARM DATA					
M PROJECTED LENGTH	N RISE AT POLE	Min OD	NOMINAL THICKNESS	P	
				TYPE 15	TYPE 21
6'-0"	2'-0" \pm	3 1/4"	0.1196"	31'-6" \pm	36'-6" \pm
8'-0"	2'-6" \pm	3 1/2"		32'-0" \pm	37'-0" \pm
10'-0"	3'-3" \pm	3 3/8"		32'-9" \pm	37'-9" \pm
12'-0"	4'-3" \pm	3 7/8"		33'-9" \pm	38'-9" \pm
15'-0"	4'-9" \pm	4 1/4"		34'-3" \pm	39'-3" \pm

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
(LIGHTING STANDARD,
TYPES 15 AND 21)**

NO SCALE

ES-6A

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

Stanley P. Johnson
REGISTERED CIVIL ENGINEER

May 20, 2011
PLANS APPROVAL DATE

Stanley P. Johnson
No. C8793
Exp. 3-31-12
CIVIL
STATE OF CALIFORNIA

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