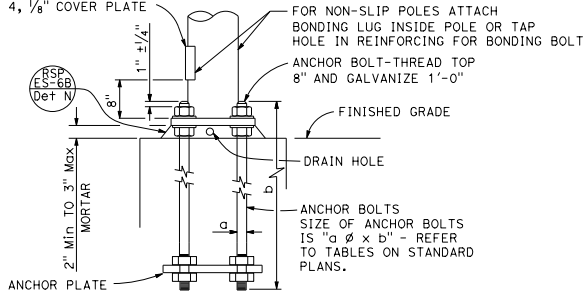


4" x 6 1/2" ROUNDED RECTANGLE HANDHOLE REINFORCED WITH RING WELDED TO OUTSIDE OF POLE. SEE NOTE 4, 1/8" COVER PLATE

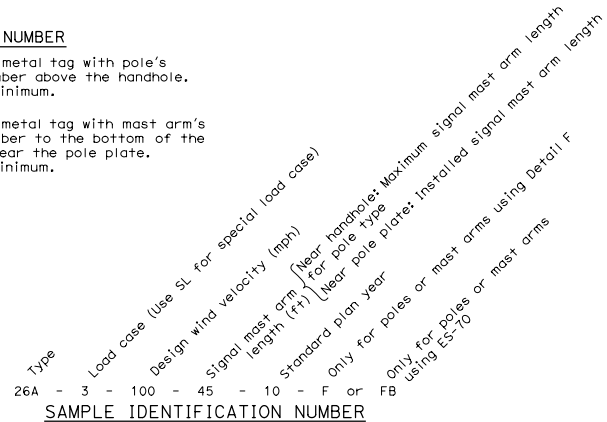


**HANDHOLE AND ANCHORAGE**

**DETAIL A**

**IDENTIFICATION NUMBER**

1. Attach a stamped metal tag with pole's identification number above the handhole. 1/4" high number, minimum.
2. Attach a stamped metal tag with mast arm's identification number to the bottom of the signal mast arm near the pole plate. 1/4" high number, minimum.

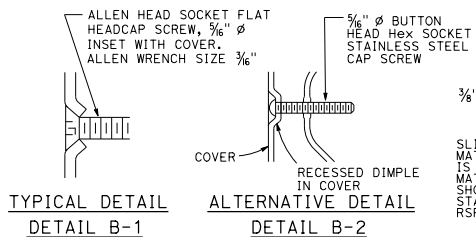


26A - 3 - 100 - 45 - 10 - F or FB

**SAMPLE IDENTIFICATION NUMBER**

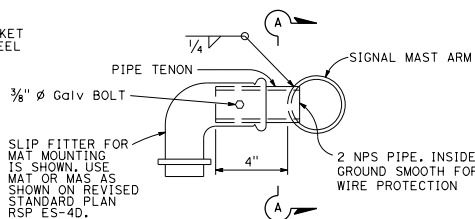
**NOTES:**

1. Provide a Hex nut, leveling nut and 2 washers for each bolt.
2. Luminaire mast arms shall be round, tapered steel tubes, taper of 0.1375" to 0.143-inch per foot with an end section 2 3/8" OD for mounting hardware. Extensions of 2 NPS Standard pipe and 7" long may be used at the option of the manufacturer. When low pressure sodium luminaires are required, the extension shall be 1'-3".
3. Signal mast arms shall be round, tapered steel tubes, maximum taper 0.143-inch per foot.
4. Handhole reinforcement ring shall be 1/4" x 2" for 0.1196" to 0.2391" thick poles, 3/8" x 2" for 0.3125" to 0.375" thick poles.
5. Handholes shall be located on the downstream side of traffic.
6. Detail F, fatigue resistant weld, is required at socket welded signal mast arm plate and pole base plate.
7. Cap screws shall be tightened by the turn-of-nut method 1/3 turn from a snug tight condition. No washer will be required.
8. Outside diameter, wall thickness, and corresponding section properties of poles and mast arms as shown in the Standard Plans are minimums. Unless otherwise specified, alternative sections shall require approval by the Engineer.
9. Design: AASHTO Standard Specifications for Structural Support for Highway Signs, Luminaires, and Traffic Signals, 6th Edition. Basic Wind Speed = 100 mph (3 seconds gust). Yearly Mean Wind Velocity = 15.6 mph.
10. Materials (Structural steel):  
fy = 55,000 psi (tapered steel tube and anchor bolts)  
fy = 50,000 psi (unless otherwise noted)
11. Materials (Reinforced concrete):  
f'c = 3,625 psi  
fy = 60,000 psi

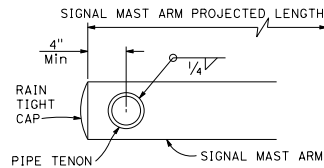


**TYPICAL DETAIL  
DETAIL B-1**

**ALTERNATIVE DETAIL  
DETAIL B-2**

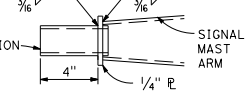
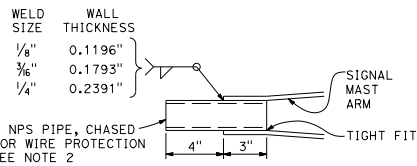


**SIDE TENON  
DETAIL S-1**



**SECTION A-A**

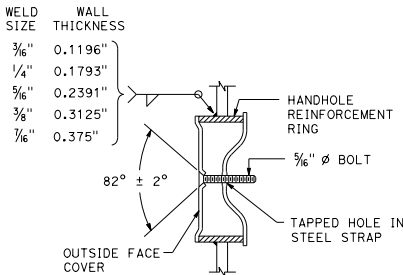
**PIPE TENONS  
DETAIL S**



**TIP TENON  
DETAIL TL**

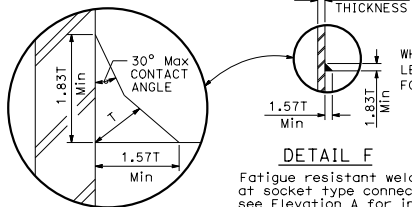
This detail supersedes Detail S when so designated

**TIP TENON  
DETAIL TS**



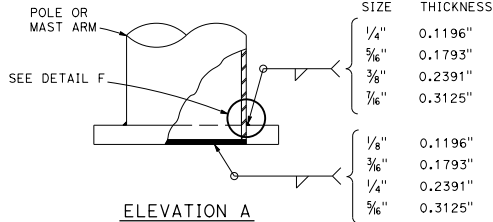
**TAMPER RESISTANT HANDHOLE COVER**

**DETAIL B**



**DETAIL F**

Fatigue resistant weld at socket type connection see Elevation A for inner weld



**ELEVATION A**

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**ELECTRICAL SYSTEMS  
(SIGNAL AND LIGHTING STANDARD,  
DETAIL No. 1)**  
NO SCALE

RSP ES-7M DATED APRIL 20, 2018 SUPERSEDES RSP ES-7M DATED JULY 15, 2016 AND STANDARD PLAN ES-7M DATED OCTOBER 30, 2015 - PAGE 467 OF THE STANDARD PLANS BOOK DATED 2015.

**REVISED STANDARD PLAN RSP ES-7M**

2015 REVISED STANDARD PLAN RSP ES-7M

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

Stanley P. Johnson  
REGISTERED CIVIL ENGINEER

April 20, 2018  
PLANS APPROVAL DATE

Stanley P. Johnson  
No. C6793  
Exp. 3-31-20  
CIVIL  
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.

TO ACCOMPANY PLANS DATED \_\_\_\_\_