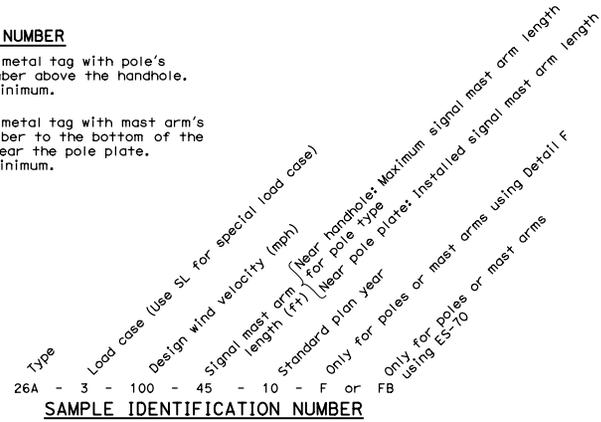


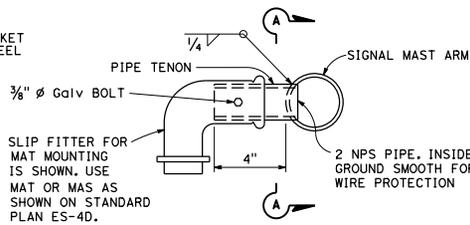
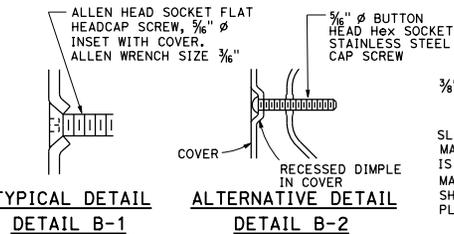
**HANDHOLE AND ANCHORAGE**  
**DETAIL A**

**IDENTIFICATION NUMBER**

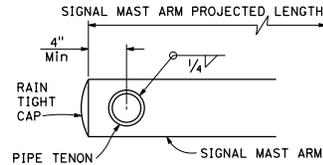
1. Attach a stamped metal tag with pole's identification number above the handhole. 1/4" high number, minimum.
2. Attach a stamped metal tag with mast arm's identification number to the bottom of the signal mast arm near the pole plate. 1/4" high number, minimum.



**SAMPLE IDENTIFICATION NUMBER**



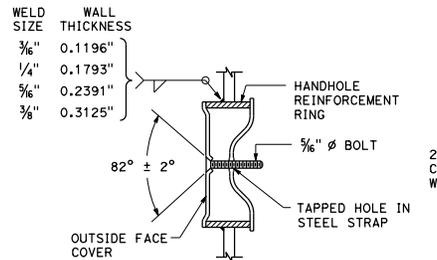
**SIDE TENON**  
**DETAIL S-1**



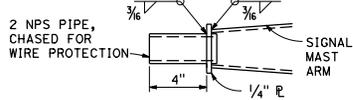
**SECTION A-A**

**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" 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. Wind Loading (3 seconds gust): 100 mph
10. Unit Stresses (Structural steel):  
fy = 55,000 psi (tapered steel tube and anchor bolts)  
fy = 50,000 psi (unless otherwise noted)
11. Unit Stresses (Reinforced concrete):  
f'c = 3,625 psi  
fy = 60,000 psi



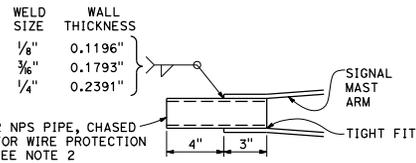
**TAMPER RESISTANT HANDHOLE COVER**  
**DETAIL B**



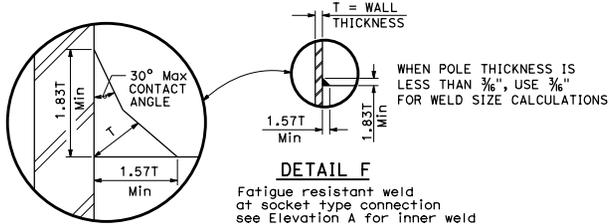
**TIP TENON**  
**DETAIL TL**

This detail supersedes Detail S when so designated

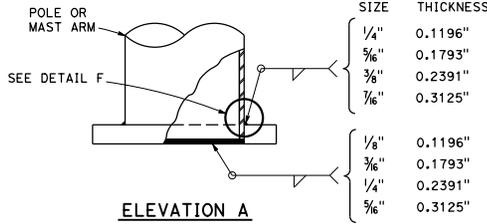
**PIPE TENONS**  
**DETAIL S**



**TIP TENON**  
**DETAIL TS**



**DETAIL F**



**ELEVATION A**

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**ELECTRICAL SYSTEMS**  
**(SIGNAL AND LIGHTING STANDARD,**  
**DETAIL No. 1)**

NO SCALE

**ES-7M**

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

Stanley P. Johnson  
REGISTERED CIVIL ENGINEER

October 30, 2015  
PLANS APPROVAL DATE

Stanley P. Johnson  
No. CS793  
Exp. 3-31-16  
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.