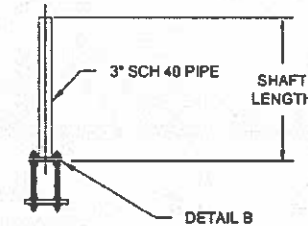
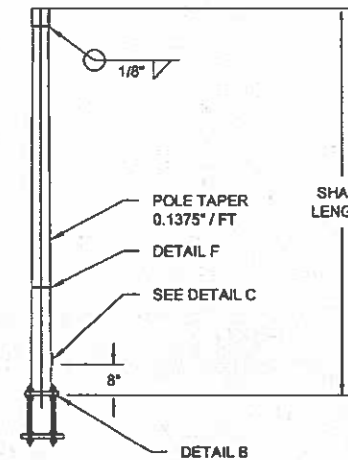
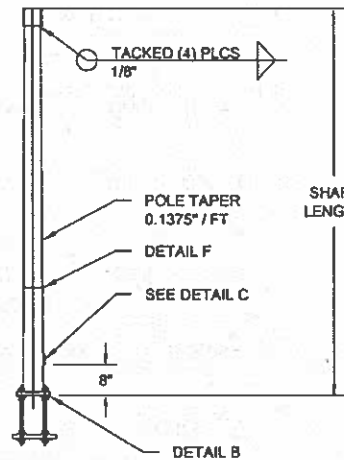
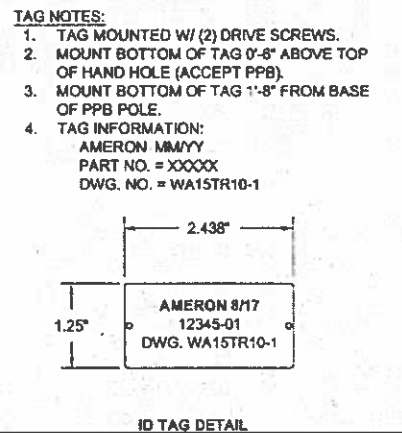


POLE DATA (FIXED BASE)

| POLE DESCRIPTION | SHAFT LENGTH | BASE OD | END OD | THK | BASE PLATE | | | | ANCHOR BOLTS | | | | MAX EPA AT POLE TOP | |
|------------------|--------------|----------|--------|--------|------------|-----------------|--------------|----------------|--------------|------|-------------|-------------|---------------------|--------------------|
| | | | | | BASE "D" | BOLT CIRCLE "F" | BASE THK "C" | BASE I.D. "ID" | QTY | DIA | STD. LENGTH | CURB LENGTH | | HOLE DIA. "E" |
| Type PPB | 5'-0" | 3 1/2" | 3 1/2" | .216" | 7" | 6" | 1/2" | 3 1/2" | 4 | 1/2" | 18" | 24" | 5/8" | 15 ft ² |
| Type PS | 8'-0" | 5 1/4" | 4 1/8" | .1196" | 9" | 9" | 3/4" | 5 1/4" | 4 | 3/4" | 30" | 36" | 1" | 25 ft ² |
| Type 1 | 10'-0" | 5 1/4" | 3 7/8" | .1196" | 9" | 9" | 3/4" | 5 1/4" | 4 | 3/4" | 30" | 36" | 1" | 25 ft ² |
| Type RM | 10'-0" | 5 1/4" | 3 7/8" | .1196" | 9" | 9" | 3/4" | 5 1/4" | 4 | 3/4" | 30" | 36" | 1" | 25 ft ² |
| Type FB-12 | 12'-0" | 5 1/4" | 3 5/8" | .1196" | 9" | 9" | 3/4" | 5 1/4" | 4 | 3/4" | 30" | 36" | 1" | 24 ft ² |
| Type FB-14 | 14'-0" | 5 13/16" | 3 7/8" | .1196" | 9" | 9" | 3/4" | 5 13/16" | 4 | 3/4" | 30" | 36" | 1" | 19 ft ² |



APPROVED
 Manufacturer's Pole Plan
 Approved For Listing As A
 Pre-Approved Drawing
 WSDOT Bridge & Structures Office
 By GB Date 2-1-2019



WELDING INSPECTION:

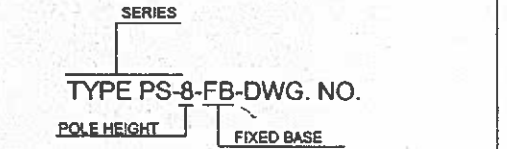
- WELDING INSPECTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF WASHINGTON STATE DEPARTMENT STANDARD SPECIFICATION SECTION 6-03.3(25) AND 2015 AASHTO, INCLUDING LATEST INTERIMS, WELD INSPECTION SECTION 14.5.3
- ALL LONGITUDINAL PARTIAL PENETRATION SEAM WELDS SHALL BE INSPECTED BY MAGNETIC PARTICLE METHOD ON THE OD FOR 30% OF LENGTH.
- COMPLETE JOINT PENETRATION (CJP) SEAM WELD WITH A SHAFT THICKNESS 0.3125 AND GREATER SHALL BE 100% ULTRASONICALLY INSPECTED.
- CJP WELD WITH A SHAFT THICKNESS OF LESS THAN 0.3125 SHALL BE MAGNETIC PARTICLE INSPECTED ON BOTH SIDES OF THE WELD WHEN BACKING IS NOT USED. THE CJP WELD SHALL BE INSPECTED THE ENTIRE LENGTH ON THE OD AND ID OF ALL SHAFTS. FOR SHAFTS WITH A NOMINAL OD LESS THAN 10.5 INCHES, WHERE ACCESS TO THE ID IS RESTRICTED, THE ID SHALL BE INSPECTED FOR A MINIMUM LENGTH OF 2 INCHES. SHAFTS WITH OD LESS THAN OR EQUAL TO 6 INCHES REQUIRE VISUAL INSPECTION ONLY AND SHALL BE PERFORMED PRIOR TO GALVANIZING.

WELDING:

- WELDING OF STRUCTURES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS STRUCTURAL WELDING CODE D1.1-STEEL. 60% MINIMUM PENETRATION IS REQUIRED FOR ALL LONGITUDINAL SEAM WELDS OF POLE AND ARM SECTIONS EXCEPT FOR THE FOLLOWING LOCATIONS WHICH REQUIRE 100% PENETRATION:
- 6 INCHES ADJACENT TO COMPLETE JOINT PENETRATION WELDS OF SHAFT TUBE TO BASEPLATE, FLANGE PLATE AND BUTT WELDED SPLICES WITH A NOMINAL OD OF 5" OR GREATER.
- 1.5 TIMES THE DIAMETER PLUS 6" ON ALL SLIP JOINTS OF THE FEMALE SECTION OF SHAFTS WITH A NOMINAL OD OF 10" OR GREATER.
- ONE DIAMETER ON ALL SLIP JOINTS OF FEMALE SECTION OF SHAFTS WITH A NOMINAL OD LESS THAN 10"

| GENERAL NOTES | |
|---|---|
| MATERIAL SPECIFICATIONS | |
| *STEEL TO HAVE SILICON CONTENT OF 0.0-0.06 OR 0.15-0.25 | |
| *SHAFT | STEEL OF 50 K.S.I. MINIMUM YIELD. ASTM A-572 GR.50, ASTM A-595 GR. A, ASTM A-709 GR.50, ASTM A-1008 GR.50, ASTM A-1011 GR.50, ASTM A-1018 GR.50, THE ABOVE LISTED MATERIALS ARE USED BASED UPON AVAILABILITY AT TIME OF PURCHASE OF MATERIAL LOTS FOR PRODUCING POLE AND ARM SHAFTS |
| *BOTTOM PLATE | ASTM A-36 STEEL |
| *MISC. PLATE | ASTM A-36 |
| *PIPE | ASTM A-53 GR. B OR ASTM A-500 GR. B |
| *ANCHOR BOLTS | ASTM F-1554 GR. 55 ANCHOR BOLT MIN. |
| MANUFACTURING PROCESSES | |
| LONGITUDINAL WELDS | BUTT WELDED BY HIGH FREQUENCY ELECTRICAL RESISTANCE PROCESS. |
| CIRCUMFERENTIAL | BUTT WELDED WITH PERMANENT BACKUP RING (CONTINUOUS). |
| FINISH COATING | |
| STRUCTURE | HOT DIP GALVANIZE PER ASTM A-123 |
| HARDWARE | HOT DIP GALVANIZE PER ASTM F2329. |
| DESIGN CRITERIA | |
| STRUCTURE AND HARDWARE | IN ACCORDANCE WITH TO 2015 AASHTO LRFD STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SUPPORTS |

- NOTES:**
- TAPERED ROUND SHAFT WITH 0.1375 TAPER WITH 4 1/2" O.D. SLIP FITTER.
 - REFERENCE WASHINGTON D.O.T. STANDARD PLAN J-21.10-04 SHEET 1 OF 2 FOUNDATION DETAILS J-20.11-02 PEDESTRIAN PUSH BUTTON W/CURB BASE J-20.16-02 PEDESTRIAN SIGNAL STANDARD J-21.15-01 TYPE 1 SIGNAL STANDARD J-22.15-02 RAMP METER SIGNAL STANDARD J-21.16-01 FLASHING BEACON TYPE 1 SIGNAL STANDARD
 - AASHTO 2015 LRFD DESIGN PARAMETERS
 - LOCATION: STATE OF WASHINGTON
 - WIND VELOCITY: 115 MPH
 - MEAN RECURRENCE INTERVAL: 1700
 - NO FATIGUE
 - FOR P.S. POLES WITH "E" MOUNTING PEDESTRIAN SIGNALS, POLE WILL BE 10' TALL WITH THE SAME CHARTED DIMENSIONS AS THE TYPE 1 POLE.
 - SS STUD, NUTS & WASHERS ARE FIELD INSTALLED
 - AMERON RESERVES THE RIGHT TO INSTALL TOOLING LUGS OR HOLES TO FACILITATE IN THE GALVANIZING PROCESS. THESE LUGS/HOLES WILL NOT IMPEDE WITH THE FIT, FORM, OR FUNCTION OF THE FINISHED PRODUCT AND ARE TO BE USED SOLELY BY THE MANUFACTURE.
 - 10 GA. (0.1345") TUBE MAY BE SUBSTITUTED FOR 11 GA. (0.1196") BASED ON MATERIAL AVAILABILITY.
 - BACK-UP RING AND FILLER RING MATERIAL TO BE ASTM A38 OR AS LIST FOR SHAFT MATERIAL.
 - CUSTOMER TO SPECIFY IF POLE IS TO BE STANDARD OR CURB BASE, AT TIME OF PLACING ORDER.
 - ORDERING INFORMATION:



| REV | DATE | DESCRIPTION | BY | APPR |
|-------|---------|---|----|------|
| C | 1/22/19 | REV. ANGLE THICKNESS IN GROUND LUG DETAIL | GM | MHM |
| B | 1/18/19 | REVISED PER WASHINGTON DOT COMMENT | ST | GM |
| A | 1/14/19 | REVISED PER WASHINGTON DOT COMMENT | ST | GM |
| REV 1 | DATE | DESCRIPTION | BY | APPR |

AMERON POLE PRODUCTS DIVISION
STATE OF WASHINGTON
AASHTO 2015 - LRFD
TYPE PPB, PS, 1, RM & FB DETAILS

THIS DOCUMENT CONTAINS INFORMATION PROPRIETARY TO AMERON. IT SHALL NOT BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.

| | | | |
|----------------|----------|--------|---------|
| DRAWING NO | DATE | APPR | DATE |
| WA15TR10-1 | 8/22/18 | GM | 8/22/18 |
| DRAWING NUMBER | REVISION | SHEET | SCALE |
| WA15TR10-1 | C | 1 OF 1 | NTS |