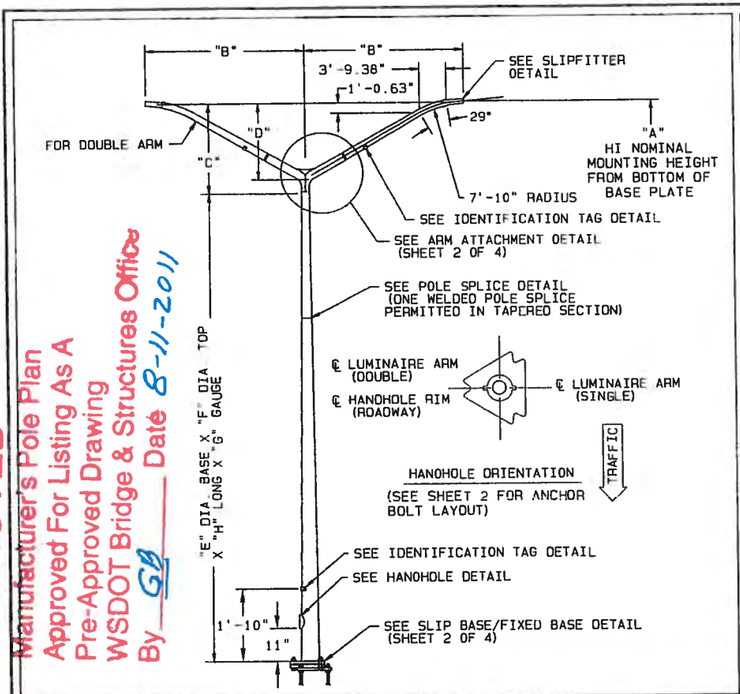
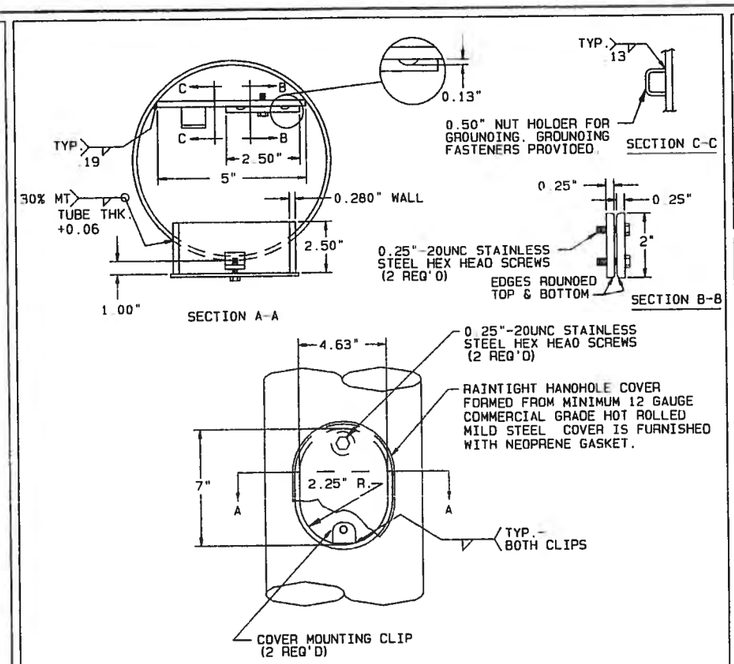
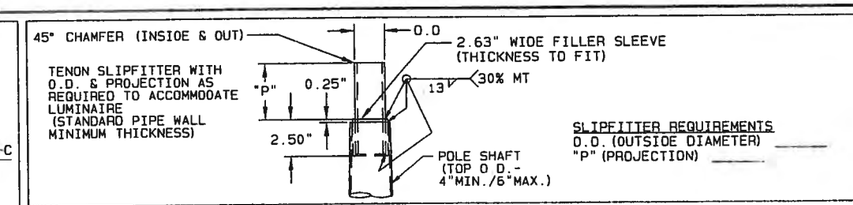
APPROVED
Manufacturer's Pole Plan
Approved For Listing As A
Pre-Approved Drawing
WSDOT Bridge & Structures Office
By GB Date 8-11-2011

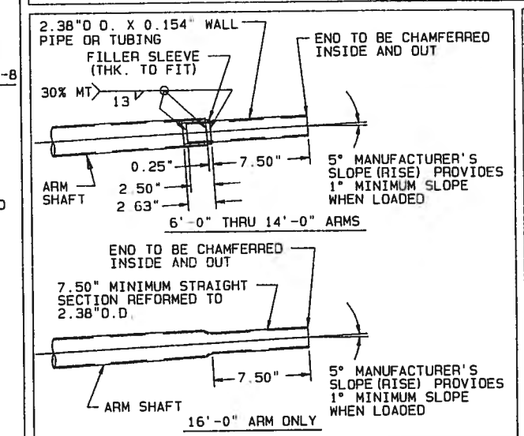




HANDHOLE DETAIL



NO MAST ARM



SLIPFITTER DETAIL

MATERIAL DATA

COMPONENT	ASTM DESIGNATION	MIN. YIELD (KSI)
POLE & ARM SHAFTS	A595 GR. A	55
BASE PLATE	A572 GR.50	50
BOTTOM SLIP PLATE	A572 GR. 50	50
ANCHOR PLATE	A572 GR.50	50
PLATE WASHERS	A36 OR A572 GR. 50	36 50
KEEPER PLT-G90 COATING	A653 GR. 33	
HANDHOLE RIM	A500 GR. B	42
STRUCTURAL CONN. HDWE	A325	
ANCHOR BOLTS NUTS WASHERS	F1554 A563 GR.DH F436	105
BRNG PLT & STRAPS	A36 OR A572 GR. 50	36 50
MISC. HARDWARE-SERIES 300 STAINLESS		
OTHER PLATES	A36 OR A572 GR. 50	36 50
TUBING	A501	36
	A513	35
	A61B	50
	A500 GR B	42
PIPE	A53 GR.B	35
GALVANIZING - STRUCTURE	A123	
GALVANIZING - HARDWARE	F2329	
ARM ELBOW	A513 TYPE 5 GR 1026	45

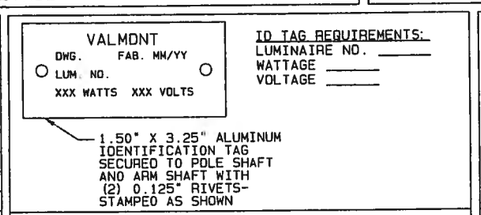
PLEASE PROVIDE ID TAG STAMPING REQUIREMENTS

PLEASE PROVIDE SLIPFITTER REQUIREMENTS IF APPLICABLE

S = SINGLE ARM (D) = DOUBLE ARM

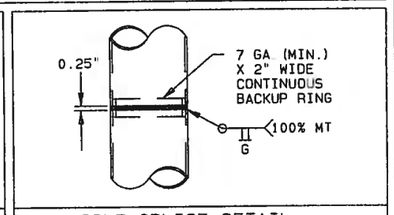
POLE AND ARM DATA

QTY.	CATALOG DESCRIPTION	HI NOMINAL MOUNTING HEIGHT (±0'-6") "A"	ARM DESCRIPTION: ARM LENGTH "B"	ARM RISE "C"	ARM RISE "D"	POLE DESCRIPTION: BASE O.D. "E"	TOP O.D. "F"	SHAFT LENGTH "H"	WALL GAUGE "G"
	DS99-WA-6S (D) -30	30'-0"	6'-0"	2'-10"	1'-11.75"	7.80"	4.00"	27'-2"	11
	DS99-WA-8S (D) -30	30'-0"	8'-0"	4'-0"	3'-1.50"	7.64"	4.00"	26'-0"	11
	DS99-WA-10S (D) -30	30'-0"	10'-0"	5'-1"	4'-3.38"	7.49"	4.00"	24'-11"	11
	DS99-WA-12S (D) -30	30'-0"	12'-0"	6'-5"	5'-5.25"	7.80"	4.50"	23'-7"	11
	DS99-WA-14S (D) -30	30'-0"	14'-0"	5'-1"	4'-1.13"	7.99"	4.50"	24'-11"	11
	DS99-WA-16S (D) -30	30'-0"	16'-0"	6'-4"	5'-4"	7.81"	4.50"	23'-8"	11
	DS210-WA-0-30	30'-0"	NO MAST ARM			8.20"	4.00"	30'-0"	11
	DS99-WA-6S (D) -35	35'-0"	6'-0"	2'-10"	1'-11.75"	8.50"	4.00"	32'-2"	11
	DS99-WA-8S (D) -35	35'-0"	8'-0"	4'-0"	3'-1.50"	8.34"	4.00"	31'-0"	11
	DS99-WA-10S (D) -35	35'-0"	10'-0"	5'-1"	4'-3.38"	8.19"	4.00"	29'-11"	11
	DS99-WA-12S (D) -35	35'-0"	12'-0"	6'-5"	5'-5.25"	8.50"	4.50"	28'-7"	11
	DS99-WA-14S (D) -35	35'-0"	14'-0"	7'-7"	6'-7.13"	8.34"	4.50"	27'-5"	11
	DS99-WA-16S (D) -35	35'-0"	16'-0"	8'-9"	7'-9"	8.18"	4.50"	26'-3"	11
	DS210-WA-0-35	35'-0"	NO MAST ARM			8.90"	4.00"	35'-0"	11
	DS99-WA-6S (D) -40	40'-0"	6'-0"	2'-10"	1'-11.75"	9.20"	4.00"	37'-2"	11
	DS99-WA-8S (D) -40	40'-0"	8'-0"	4'-0"	3'-1.50"	9.04"	4.00"	36'-0"	11
	DS99-WA-10S (D) -40	40'-0"	10'-0"	5'-1"	4'-3.38"	8.89"	4.00"	34'-11"	11
	DS99-WA-12S (D) -40	40'-0"	12'-0"	6'-5"	5'-5.25"	9.20"	4.50"	33'-7"	11
	DS99-WA-14S (D) -40	40'-0"	14'-0"	7'-7"	6'-7.13"	9.04"	4.50"	32'-5"	11
	DS99-WA-16S (D) -40	40'-0"	16'-0"	8'-9"	7'-9"	8.88"	4.50"	31'-3"	11
	DS210-WA-0-40	40'-0"	NO MAST RAM			9.60"	4.00"	40'-0"	11
	DS99-WA-6S (D) -50	50'-0"	6'-0"	2'-10"	1'-11.75"	10.60"	4.00"	47'-2"	10
	DS99-WA-8S (D) -50	50'-0"	8'-0"	4'-0"	3'-1.50"	10.44"	4.00"	46'-0"	10
	DS99-WA-10S (D) -50	50'-0"	10'-0"	5'-1"	4'-4.38"	10.29"	4.00"	44'-11"	10
	DS99-WA-12S (D) -50	50'-0"	12'-0"	6'-5"	5'-5.25"	10.60"	4.50"	43'-7"	10
	DS99-WA-14S (D) -50	50'-0"	14'-0"	7'-7"	6'-7.13"	10.44"	4.50"	42'-5"	10
	DS99-WA-16S (D) -50	50'-0"	16'-0"	8'-9"	7'-9"	10.28"	4.50"	41'-3"	10
	DS210-WA-0-50	50'-0"	NO MAST ARM			11.00"	4.00"	50'-0"	10



IDENTIFICATION TAG DETAIL

ID TAG REQUIREMENTS:
LUMINAIRE NO. _____
WATTAGE _____
VOLTAGE _____

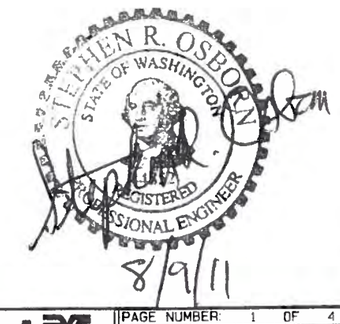


POLE SPLICE DETAIL

NOTES:
1. 2009 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS.
2. 90 MPH - DESIGN WIND SPEED
3. 3.3 SQ. FT./50 LBS. - DESIGN LUMINAIRE PA/WT
4. IN THE POLE AND ARM DATA, WALL GAUGE "G" WILL CHANGE WHEN THE MOUNTING HEIGHT REQUIRED ADJUSTS THE BASE O.D. "E" TO THE FOLLOWING:
   A. 10.00" OR LESS - WALL GAUGE WILL BE 11 GA.
   B. 10.01" THRU 11.00" - WALL GAUGE WILL BE 10 GA
   THE WALL GAUGE "G" WILL REMAIN THE SAME FOR BOTH THE SINGLE AND DOUBLE ARM CONDITIONS
5. THE ALLOWABLE MAXIMUM SIGN AREA LOCATED 7'-0" ABOVE THE POLE BASE WILL BE 20 SQ. FT FOR ALL ARMS AND ALL MOUNTING HEIGHTS REQUIRED EXCEPT THE FOLLOWING:
   A. IF DOUBLE 16'-0" ARMS ARE REQUIRED FOR 40'-0" MOUNTING HEIGHT WHICH WOULD ADJUST THE BASE O.D. "E" TO 10.00" OR LESS WITH 11 GAUGE WALL.
6. THE H1 DIMENSION SHALL NOT EXCEED 50'-0".
7. SLIP BASES SHALL NOT BE INSTALLED ON POLES WEIGHING MORE THAN 1000 LBS.
8. LONGITUDINAL WELD SEAM:
   WELDING PROCESS:
   HIGH FREQUENCY ELECTRIC RESISTANCE WELD.

   WELD INSPECTION:
   ALL LONGITUDINAL SEAM WELDS SHALL BE INSPECTED BY MAGNETIC PARTICLE METHOD FOR 30% OF LENGTH EXCEPT FOR SHAFT THICKNESS OVER 0.3125 TO BE ULTRASONIC METHOD.

   WELDING:
   WELDING OF STRUCTURES SHALL BE IN ACCORDANCE WITH LATEST OF THE AWS STRUCTURAL WELDING CODE D1.1-STEEL. LONGITUDINAL SEAM WELD IS 60% MINIMUM PENETRATION EXCEPT 100% PENETRATION FOR 6 INCHES FROM END OF SECTION AT FLANGE PLATE OR BASEPLATE OR SPLICE.



REV	DRAWN BY-DATE	CHECK BY-DATE	DESCRIPTION
G	BDB3 06/10/11	BDB3 06/10/11	ADD ANCHOR BOLT NUT & WASHER MATERIAL DATA
F	RDS9 02/15/11	RDS9 02/15/11	REVISED NOTES
E	BDB3 08/06/10	BDB3 08/06/10	UPDATED TO 2009 AASHTO
—	JKC 04/30/03	JKC 04/30/03	— — — — — — — — — — — — — — — — — — — —

TITLE: STATE OF WASHINGTON
TYPE 2 LIGHTING STRUCTURES

VALMONT INDUSTRIES, INC. RESERVES THE RIGHT TO INSTALL VARIOUS, ENGINEER APPROVED, MATERIAL HANGING ACCOMMODATIONS TO FACILITATE THE MANUFACTURING PROCESS.

valmont
Valley, NE 68064
(402) 359-2201

DRAWING NUMBER: DB00653
REV: G