



December 06, 2016

Power Equipment Sales
P.O. Box 3134
Kansas City, KS 66103-1732

Valmont Order: DB01086
Customer Order:

Enclosed is the revised drawing package for your approval. This drawing represents the Products to be furnished by Valmont Industries, Inc.

Please return one (1) complete set of drawings marked **Approved** to Samantha M. Knapp, or provide other written authorization at the time of order release.

Send to:

VALMONT INDUSTRIES, INC.
Lighting, Traffic and Communication Structures
28800 Ida St.
P.O. Box 358
Valley, Nebraska 68064-8016

Valmont approval policy: *It is important that all verification information must accompany the order release. Omission of the information may cause a delay in the shipping schedule. Also note; should we require additional information, clarification, or if there is a customer initiated change, the quoted lead-time is subject to when we receive this information. Our quoted lead-time begins once we receive the completed information or the final customer change. Damages resulting from delays in receiving complete information or customer changes will not be the responsibility of Valmont Industries, Inc.*

Sincerely,
Bradley N. Dunker
bradley.dunker@valmont.com

cc: file

Structures-North America
Valmont Industries, Inc. 28800 Ida Street P.O. Box 358 Valley, Nebraska 68064-0358 USA
402-359-2201 800-825-6668 Fax 402-359-4025 valmont.com valmontstructures.com

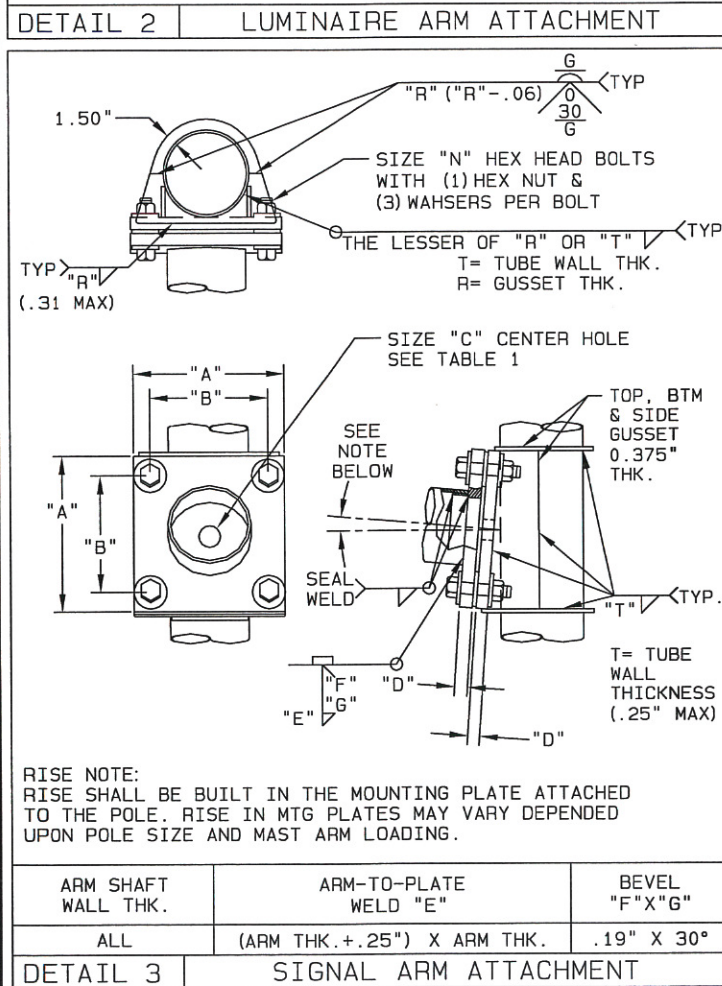
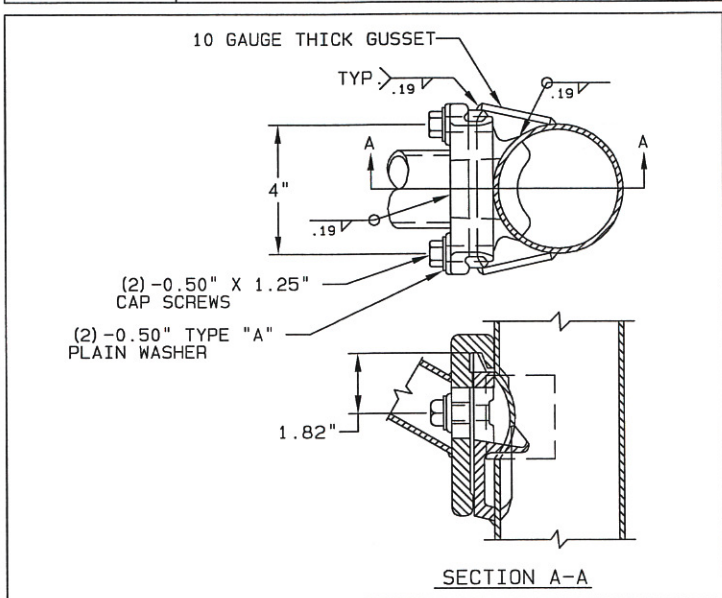
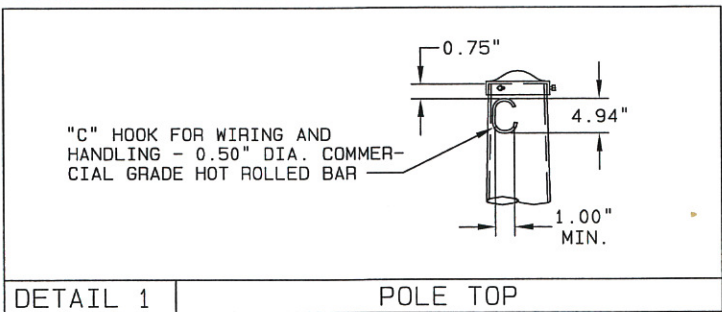


THE MAINTENANCE OF THE TRAFFIC STRUCTURES SHOWN ON THIS DRAWING HAVE BEEN DESIGNED IN ACCORDANCE WITH THE LOADING AND THE ALLOWABLE STRESS REQUIREMENTS OF THE 2013 AASHTO "STANDARDS SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS", SIXTH EDITION, LTS-6. THE WIND LOADS WERE CALCULATED FROM A BASIC WIND VELOCITY OF 90 MPH WITH A RECURRENT INTERVAL OF 25 YEARS, AND A FATIGUE CATEGORY OF 2. THE FATIGUE LOADS WERE CALCULATED ON THE REQUIREMENTS OF SECTION 11 OF THE CODE, AND THE FOLLOWING DESIGN CONDITIONS.

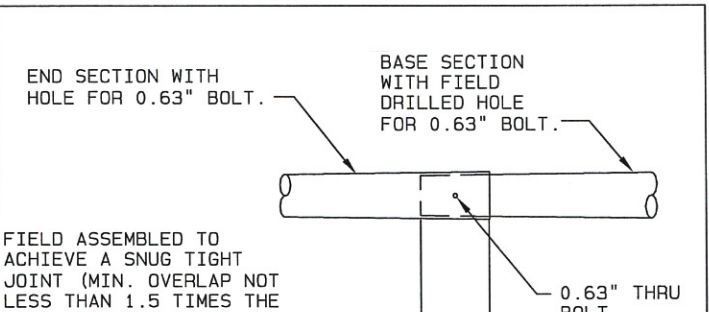
- STRUCTURES ARE DESIGNED TO RESIST NATURAL WIND GUSTS BASED ON THE YEARLY MEAN WIND VELOCITY OF 11.2 MPH.
- STRUCTURES ARE NOT DESIGNED TO RESIST GALLOPING-INDUCED CYCLIC LOADS.
- TRUCK-INDUCED GUST LOADS ARE EXCLUDED PER THE REQUIREMENTS OF THE CODE

****NOTE:**
UPON INITIAL FIELD ASSEMBLY OF THE MAST-ARM'S FIRST SECTION'S BUTT PLATE TO THE MAST-ARM VERTICAL POLE'S BUTT PLATE, IF THE END USER DETERMINES THAT THERE IS A SUFFICIENT GAP AT A BOLT HOLE SUCH THAT THERE WILL NOT BE FACE-TO-FACE CONTACT BETWEEN THE TWO BUTT PLATES, THEN A WASHER SHALL BE INSERTED TO PROVIDE FACE-TO-FACE CONTACT BETWEEN THE TWO BUTT PLATES IN ACCORDANCE WITH SECTION 5.16 "BOLTED CONNECTIONS" OF THE 2013 EDITION OF AASHTO.

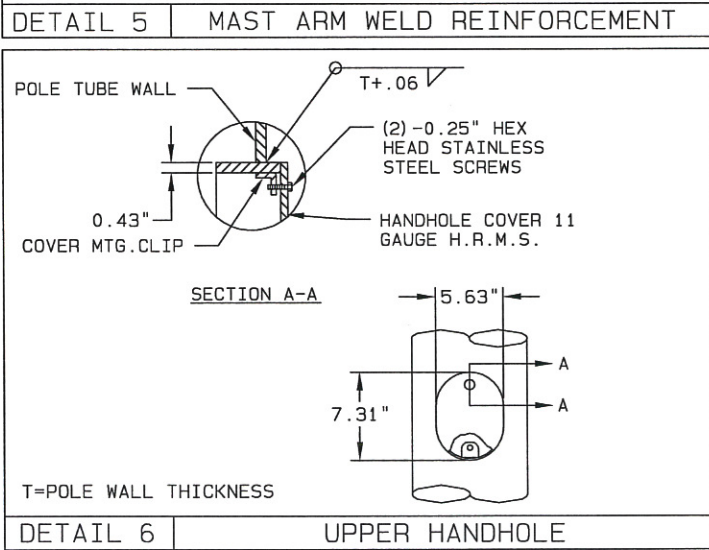
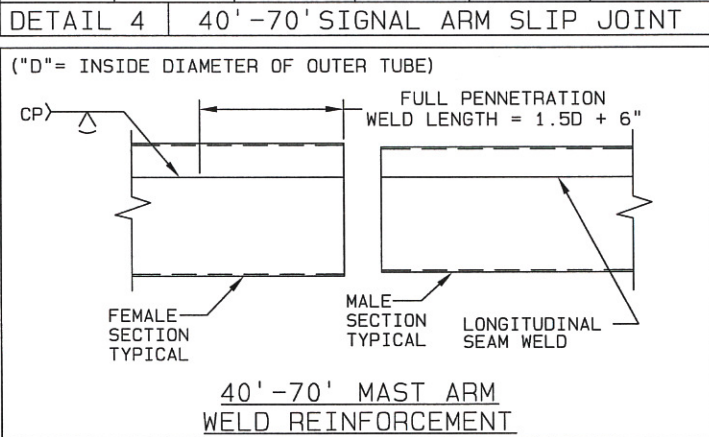




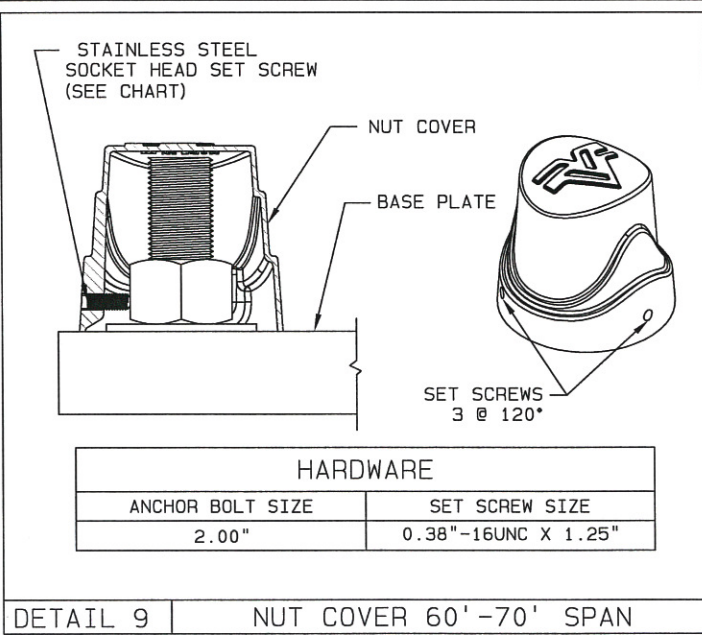
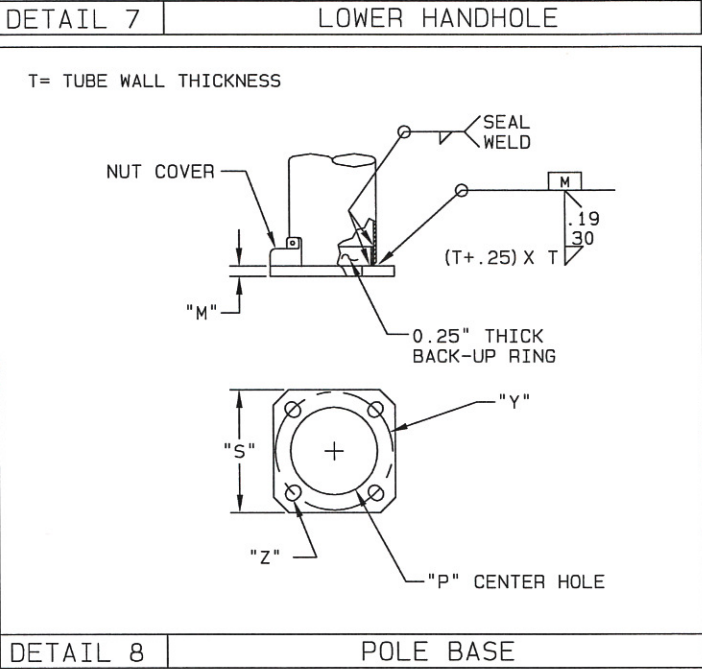
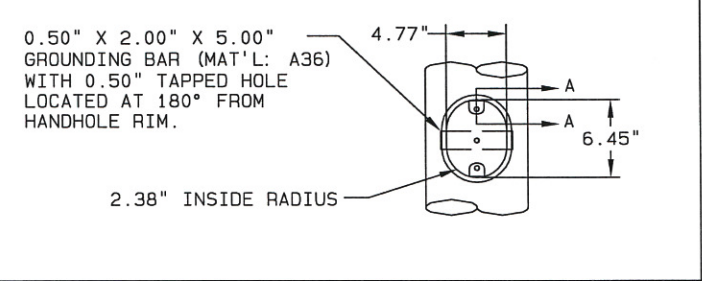
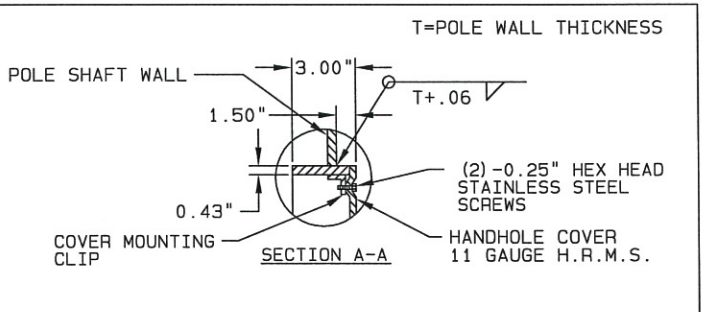
DETAIL 3 SIGNAL ARM ATTACHMENT



SPAN (FT)	BASE SECTION		END SECTION	
	LENGTH (FT)	GAUGE/THK (IN)	LENGTH (FT)	GAUGE/THK (IN)
40.00	19.29	0.313	11.00	23.15
42.00	19.29	0.313	11.00	25.15
44.00	19.29	0.313	11.00	27.15
46.00	26.43	0.313	11.00	22.01
48.00	26.43	0.313	11.00	24.01
50.00	15.97	0.313	13.00	36.72
52.00	19.42	0.375	12.00	35.15
54.00	19.54	0.375	13.00	37.15
56.00	19.54	0.375	13.00	39.15
58.00	23.11	0.375	13.00	37.58
60.00	19.75	0.375	14.00	43.07
62.00	19.83	0.375	14.50	45.05
64.00	19.92	0.375	15.00	47.02
66.00	27.00	0.375	14.50	41.88
68.00	27.08	0.375	15.50	43.93
70.00	27.08	0.375	15.50	45.93



DETAIL 6 UPPER HANDHOLE



DETAIL 10 ANCHOR BOLT

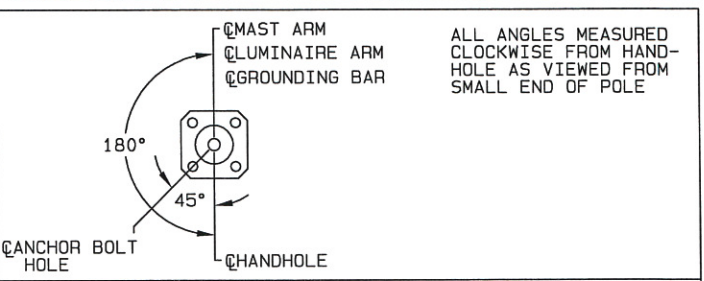
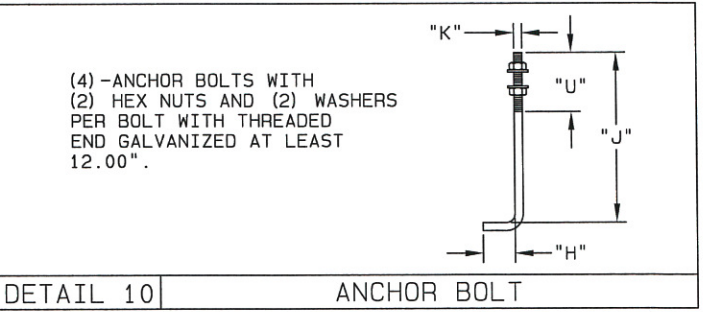


TABLE 3: MATERIAL DATA

COMPONENT	ASTM DESIGNATION	MIN. YIELD (KSI)
ALL TAPERED SHAFTS	A595 GR.A OR A572	55
BASE PLATE	A572 GR. 50	50
SIMPLEX PLATE	A572 GR. 50	50
LUM ARM ATTACHMENT	A27 GR. 65-35 OR A36	35
LUMINAIRE ARM - 2" SCHEDULE 40 PIPE	ASTM A501, A513, A618 OR A500 GR. B	36
LUMINAIRE CONN. BOLTS	SAE GR. 5	--
ANCHOR BOLTS	F1554 GR.55	55
ARM CONNECTING HARDWARE	A325	--
GALVANIZING-HARDWARE	HOT DIP ZINC	--

FINISH DATA

STANDARD FINISH	OPTIONAL FINISH
SYSTEM: GALVANIZED (GV)	SYSTEM: FINISH PAINT/GALVANIZED (FPGV)
BASE COAT: HOT-DIP GALV. TO ASTM A123	BASE COAT: HOT-DIP GALVANIZED TO ASTM A123
PRIME COAT: NONE	PRIME COAT: NONE
FINISH COAT: NONE	FINISH COAT: TGIC OR URETHANE POLYESTER POWDER
COLOR: NONE	COLOR: ????
SPEC: F-1	SPEC: F-283????

PROFESSIONAL CIVIL ENGINEER
BARRY N. SLADEK
E-10357
STATE OF NEBRASKA

12/5/16

valmont

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PAGE NUMBER: 2 OF 2
DRAWING NUMBER: DB01086
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