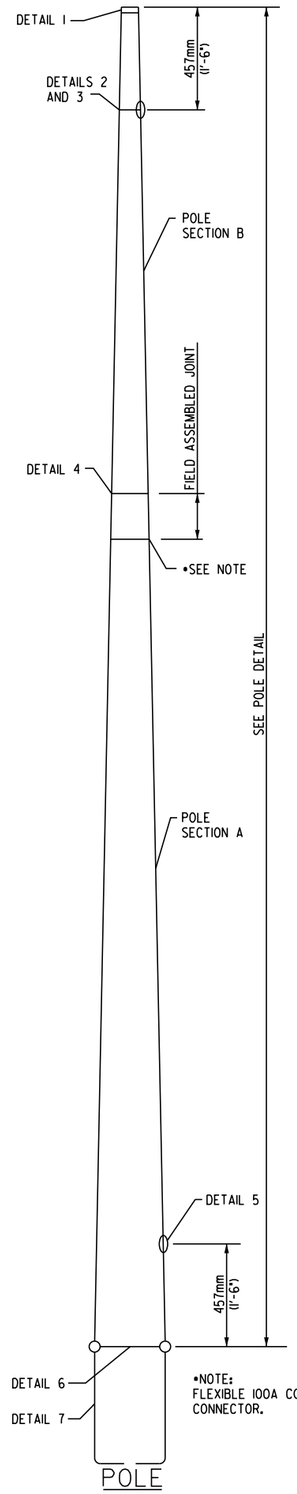
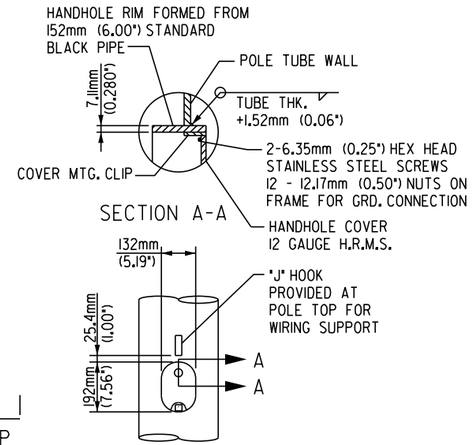
APPROVED CAMERA POLE DRAWING: VALMONT, DRAWING NUMBER IL122179P1

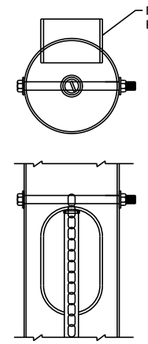


POLE

DETAIL 1
POLE TOP
CAST POLE TOP CAP HELD IN PLACE WITH 3 SET SCREWS

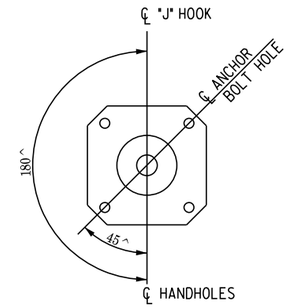


DETAIL 2
HANDHOLE



NOTE:
9.53mm (0.375")-16 UNC CAP SCREW WITH HEX NUT, FLAT WASHER AND LOCK WASHER ARE PROVIDED FOR ATTACHING CHAIN DAMPER TO INSIDE OF POLE SHAFT. DAMPER CONSISTS OF 3.20m (10'-6") LENGTH OF CHAIN COVERED WITH BLACK HOSE. HOSE CLAMPS ARE PROVIDED. ALL THREADED FASTENERS ARE PLATED.

DETAIL 3
INTERNAL CHAIN DAMPER

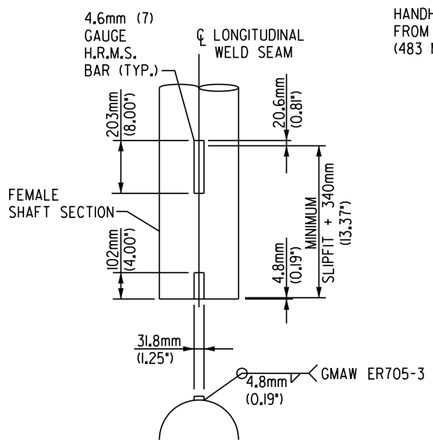


ALL ANGLES MEASURED CLOCKWISE FROM HANDHOLES AS VIEWED FROM SMALL END OF THE POLE

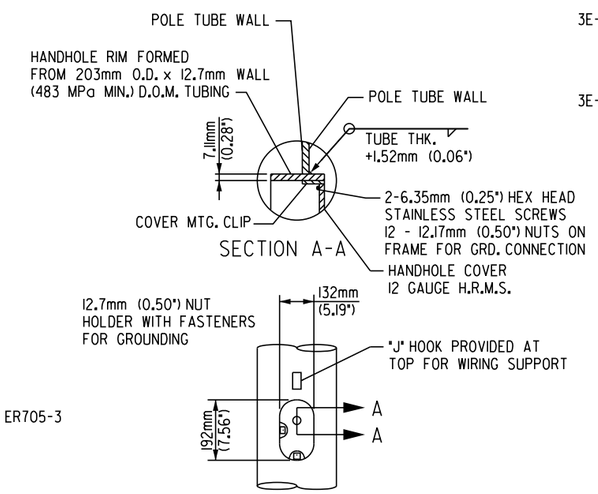
RADIAL INDEX

NOTES:

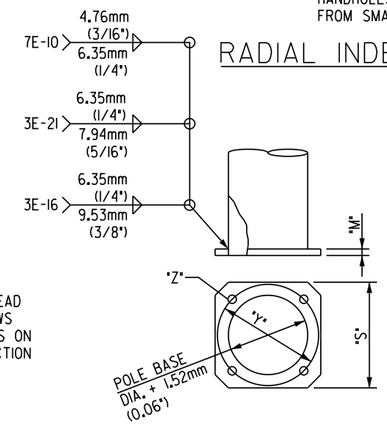
1. DESIGN SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS FOR 90 MPH WIND LOAD AND THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, JANUARY 1, 2002.
2. THE EXPOSED LENGTH OF THE ANCHOR BOLT BETWEEN THE TOP OF THE FOUNDATION AND THE BOTTOM OF THE LEVELING NUT SHOULD NOT EXCEED ONE BOLT DIAMETER.



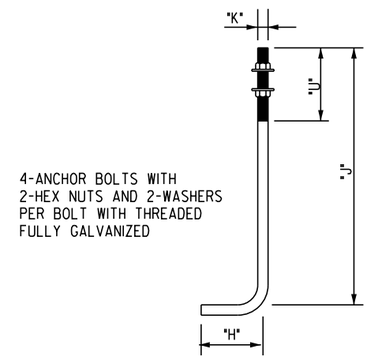
DETAIL 4
WELD REINFORCEMENT
SECTION B OF POLE ONLY



DETAIL 5
HANDHOLE



DETAIL 6
POLE BASE



4-ANCHOR BOLTS WITH 2-HEX NUTS AND 2-WASHERS PER BOLT WITH THREADED FULLY GALVANIZED

DETAIL 7
ANCHOR BOLT

MATERIAL DATA		
COMPONENT	ASTM DESIGNATION •	MIN. YIELD MPa (ksi)
SHAFTS OVER 330mm (13.00") DIA.	A572 GR. 65	448 (65)
SHAFTS TO 330mm (13.00") DIA.	A595 GR. A	379 (55)
ANCHOR BOLTS	F1554 GR55	379 (55)
BASE PLATE	A36	248 (36)
GALVANIZING	A123 & A153	
FLAT WASHERS	F436	

•METRIC EQUAL

MATERIAL DATA		
COMPONENT	ASTM DESIGNATION •	MIN. YIELD MPa (ksi)
ANCHOR BOLT NUTS	A563 GR. A	
H. H. COVER	C1010 STEEL	
H. H. FRAME	A36	248 (36)
POLE TOP	B26	

•METRIC EQUAL

POLE DATA																
ITEM	QTY.	MOUNTING HEIGHT m (ft)	POLE TUBE						POLE BASE				ANCHOR BOLT			
			SEC.	BASE DIA. mm (in)	LENGTH m (ft)	TOP DIA. mm (in)	THICK OR GAUGE mm. (in/no.)	MIN. SLIP mm (in)	SQUARE "S" mm (in)	BOLT CIRCLE "Y" mm (in)	THK "M" mm (in)	SLOT "Z" mm (in)	DIA. "K" mm (in)	LENGTH "J" mm (in)	HOOK "H" mm (in)	THREAD LENGTH "U" mm (in)
1	1	13.72 (45.00)	A	330 (13.00)	13.72 (45.00)	170 (6.70)	6.07 (3)	N.A.	457 (18.00)	432 (17.00)	38 (1.50)	44x62 (1.75x2.44)	38 (1.50)	1372 (54.00)	152 (6.00)	203 (8.00)
2	1	16.76 (55.00)	A	406 (16.00)	10.27 (33.70)	287 (11.28)	4.8 (0.1875)	443 (17.45)	622 (24.50)	597 (23.50)	38 (1.50)	44x62 (1.75x2.44)	38 (1.50)	1372 (54.00)	152 (6.00)	203 (8.00)
			B	305 (12.00)	7.27 (23.87)	220 (8.66)	4.55 (7)									

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		DRAWN -	REVISED -
	PLOT SCALE =	CHECKED -	REVISED -
	PLOT DATE = 7/17/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CAMERA POLE DETAIL

SCALE: NONE | SHEET NO. 46 OF 50 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-(14R;(14HB-4,14,14HVB)BR)	TAZEWELL	2433	1710

CONTRACT NO. 68620

ILLINOIS FED. AID PROJECT