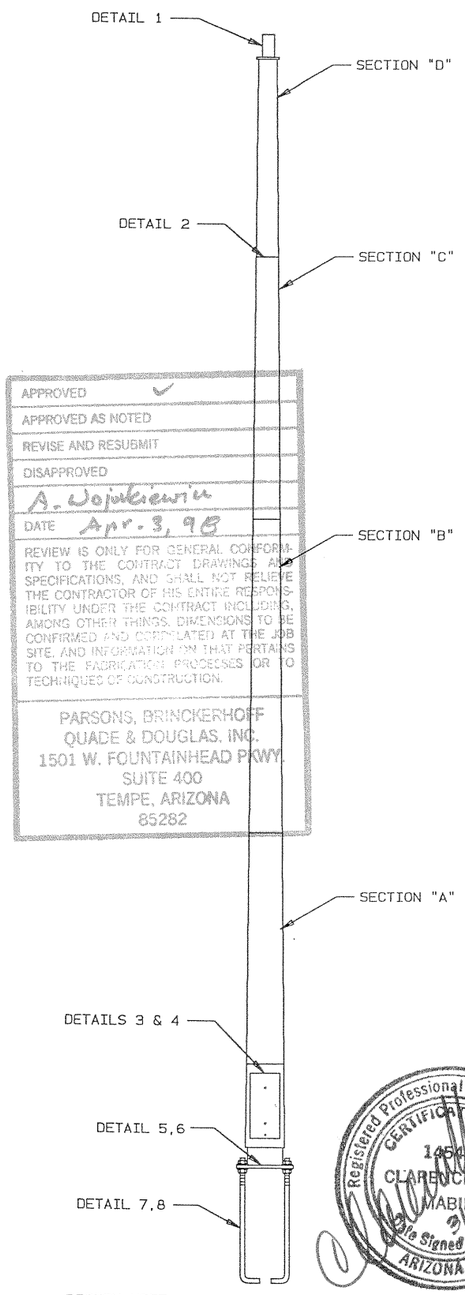


APPROVED ✓
APPROVED AS NOTED
REVISE AND RESUBMIT
DISAPPROVED
A. Joinkewitz
DATE Apr. 3, 98

REVIEW IS ONLY FOR GENERAL CONFORMITY TO THE CONTRACT DRAWINGS AND SPECIFICATIONS, AND SHALL NOT RELIEVE THE CONTRACTOR OF HIS ENTIRE RESPONSIBILITY UNDER THE CONTRACT INCLUDING, AMONG OTHER THINGS, DIMENSIONS TO BE CONFIRMED AND CORRELATED AT THE JOB SITE, AND INFORMATION ON THAT PERTAINS TO THE FABRICATION PROCESSES OR TO TECHNIQUES OF CONSTRUCTION.

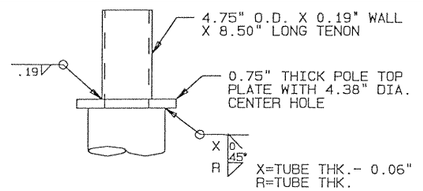
PARSONS, BRINCKERHOFF
QUADE & DOUGLAS, INC.
1501 W. FOUNTAINHEAD PKWY.
SUITE 400
TEMPE, ARIZONA
85282

Registered Professional Engineer (Civil)
CERTIFICATE NO.
14542
CLARENCE LEE
MABIN
Date Signed 3/6/98
ARIZONA, U.S.A.

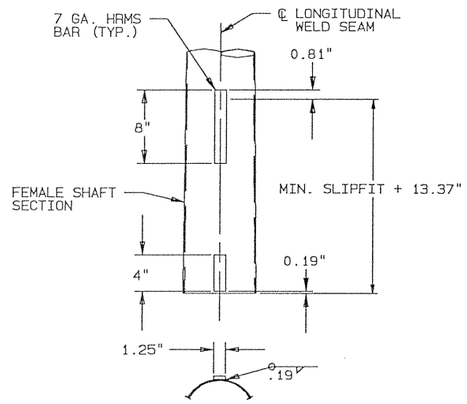
DESIGN NOTE

DESIGNED TO WITHSTAND PRESSURES EQUIVALENT TO A 80 MPH ISOTACH WIND VELOCITY, WITH A 1.3 GUST FACTOR, AS DEFINED BY THE AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS", 1994.

TOTAL EPA: 36 SQ. FT.
TOTAL WEIGHT: 1000 LBS.

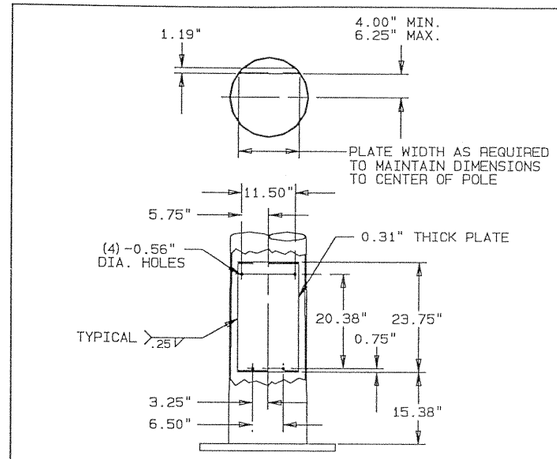


DETAIL 1 | POLE TOP

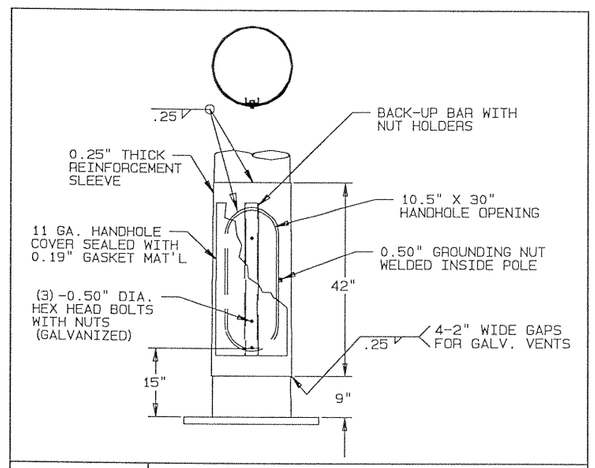


DETAIL 2 | WELD REINFORCEMENT

MATERIAL DATA		
COMPONENT	ASTM DESIGNATION	MIN. YIELD (KSI)
3 GA. SHAFTS	A595 GR. A	55
ALL OTHER SHAFTS	A572	65
REINFORCEMENT SLEEVE	A572	65
HANDHOLE COVER	HRMS	20
BASE PLATE	A572	42
SUPPORT PLATE	A36	36
POLE TOP PLATE	A36	36
TENON-C.D.S. TUBING	---	36
ANCHOR BOLTS - ITEMS 1,2	F 1554 GR.55	55
ANCHOR BOLTS - ITEMS 3,4,5	A615 GR. 75	75
POLE FINISH - GALVANIZING	A123	---
GALVANIZING - HARDWARE	A153	---



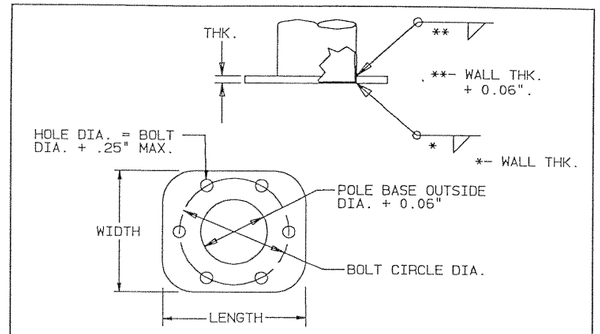
DETAIL 3 | SUPPORT PLATE



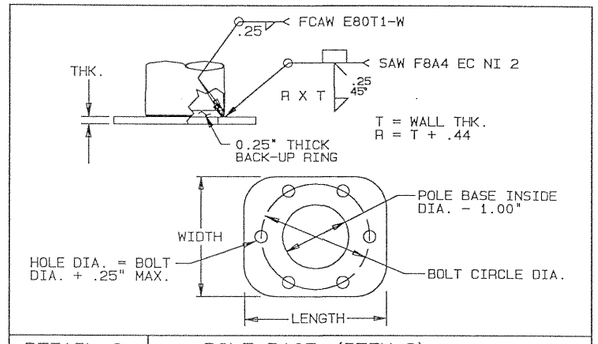
DETAIL 4 | HANDHOLE

*PLEASE SEE DETAILS 7 AND 8 FOR ANCHOR BOLT SIZES.

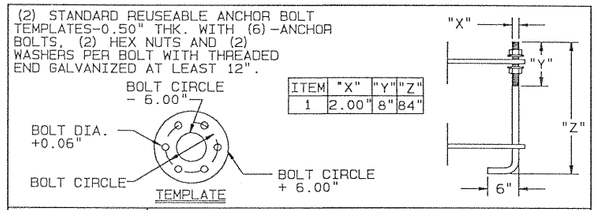
POLE DATA												
ITEM	QTY.	DESIGNATION	POLE HEIGHT (FT)	TUBE						POLE BASE*		
				SECTION	BASE DIAMETER	TOP DIAMETER	LENGTH (FT)	GAUGE OR THICK	MIN. SLIP	WIDTH X LENGTH	BOLT CIRCLE DIAMETER	THICK
1		AHM100-21	100.00	A	19.02"	11.66'	52.60'	0.250"	N/A	28.10" X 24.90"	23.75"	1.50"
				B	12.50"	5.50'	50.01'	0.239"	18.03"			
2		AHM120-21	120.00	A	22.35"	17.63'	33.73'	0.250"	N/A	32.00" X 28.40"	27.50"	1.75"
				B	18.55"	12.15"	46.10'	0.250"	27.08"			
				C	13.00"	6.53'	46.23'	0.239"	18.78"			
3		AHM150	150.00	A	27.00"	20.97"	43.09'	0.313"	N/A	39.00" X 36.00"	33.00"	2.00"
				B	22.00"	16.06"	42.46'	0.250"	32.25"			
				C	17.00"	11.66'	38.18'	0.250"	24.75"			
				D	12.50"	7.48'	35.87'	0.239"	18.03"			



DETAIL 5 | POLE BASE (ITEMS 1,2)

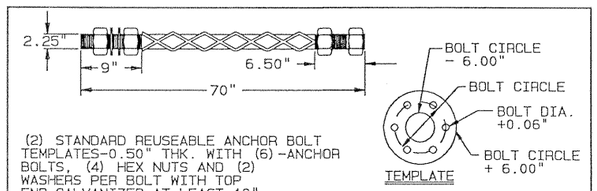


DETAIL 6 | POLE BASE (ITEM 3)



ITEM	"X"	"Y"	"Z"
1	2.00"	8"	84"

DETAIL 7 | ANCHOR BOLT (ITEM 1)



(2) STANDARD REUSEABLE ANCHOR BOLT TEMPLATES-0.50" THK. WITH (6) -ANCHOR BOLTS, (4) HEX NUTS AND (2) WASHERS PER BOLT WITH TOP END GALVANIZED AT LEAST 18".

DETAIL 8 | ANCHOR BOLT (ITEMS 2,3)

REV.	DATE	REVISION

JOB NAME	
SOLD TO	
SHIP TO	
P.O. NO.	
AGENT	

VALMONT.
VALMONT INDUSTRIES, INC.
VALLEY, NEBRASKA 68064
(402) 359-2201

ORDER NO.:

DATE: 03/03/98 | DRWN: TC | CHK:

SHEET 1 OF 1 | REV.

TITLE: ARIZONA HIGHMAST STRUCTURES

DRAWING NO. DBMTB01