ITEM	QTY	DESCRIPTION	MAT'L
1	16	1 1/8 – 7 UNC x 6.5" LG HEAVY HEX BOLT	SA-193 B8
2	16	1 1/8 – 7 UNC HEAVY HEX NUT	SA-194 B8
3	16	1 1/8" FLAT WASHER – 1/8" THK x 2.5" OD x 1.19" ID	18-8 SS
4	1	TEFLON GASKET FOR 12" CL 300 FLANGES (McMASTER 5480K75)	PTFE SS

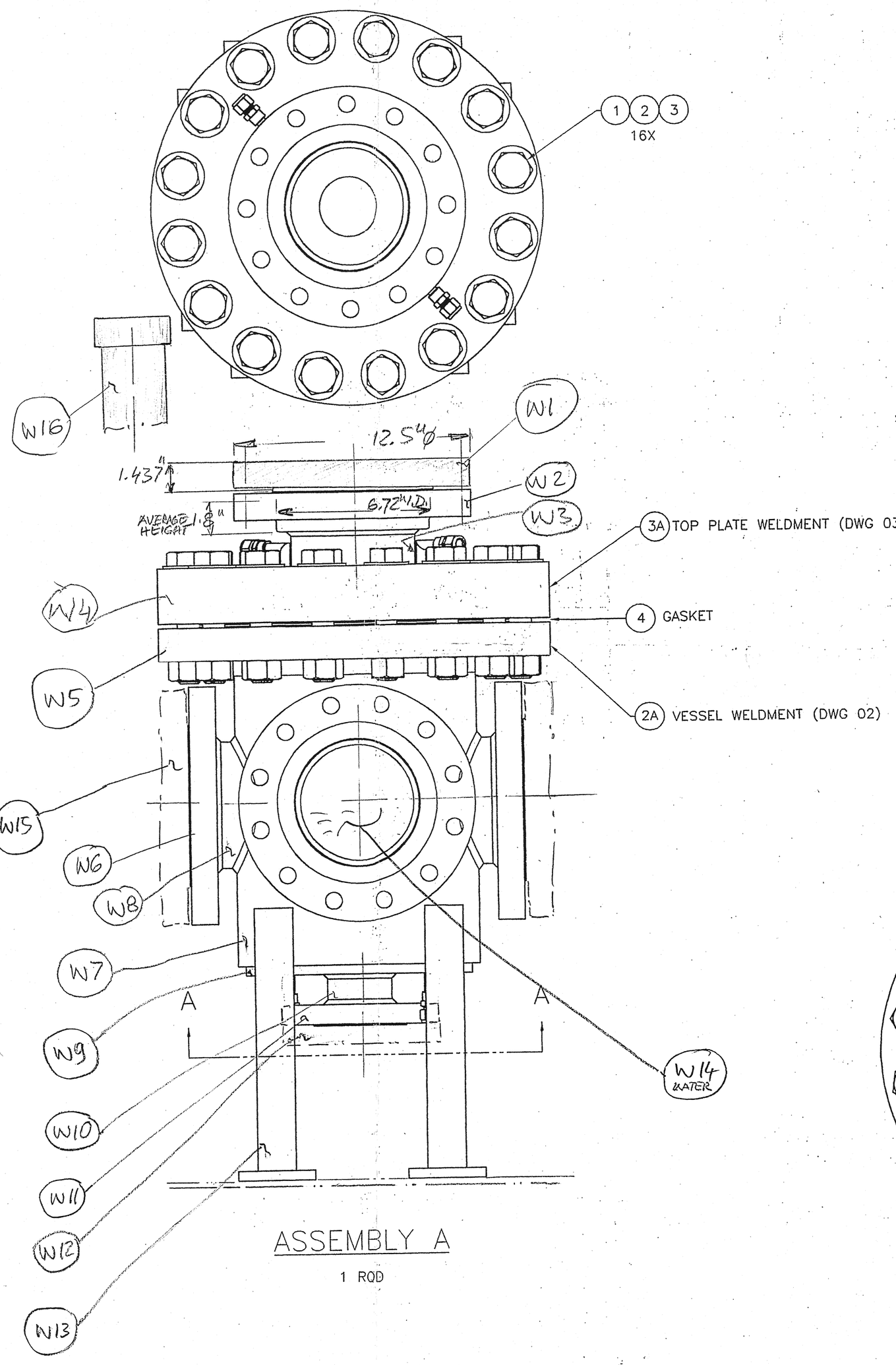
NOTES:

1. DESIGN, FABRICATE, TEST, AND STAMP IN ACCORDANCE WITH THE ASME CODE, SECTION VIII, DIV 1. DESIGN PRESSURE = 600 PSIG AT TEMPERATURE BETWEEN –30C (–22F) AND 40C (104F). AT LEAST ONE MILLION CYCLES BETWEEN 0 AND 80 PSIG. WORKING FLUID IS A MIXTURE OF GLYCOL AND WATER. HYDROSTATIC PRESSURE TEST AT 750 PSIG.

2. ALL PARTS 304 SS EXCEPT GASKET, WHICH IS TEFLON MOLDED ON 304 SS.

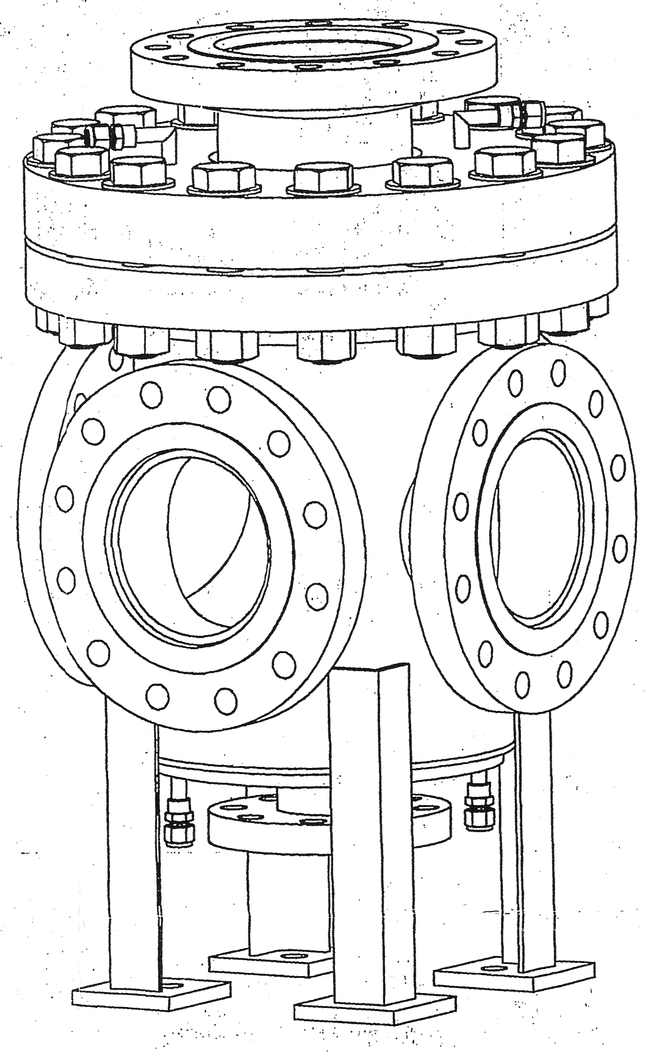
3. WELDS AND OTHER SURFACES SHALL BE FULLY PASSIVATED TO PRECLUDE RUST FROM LONG-TERM EXPOSURE TO WATER.

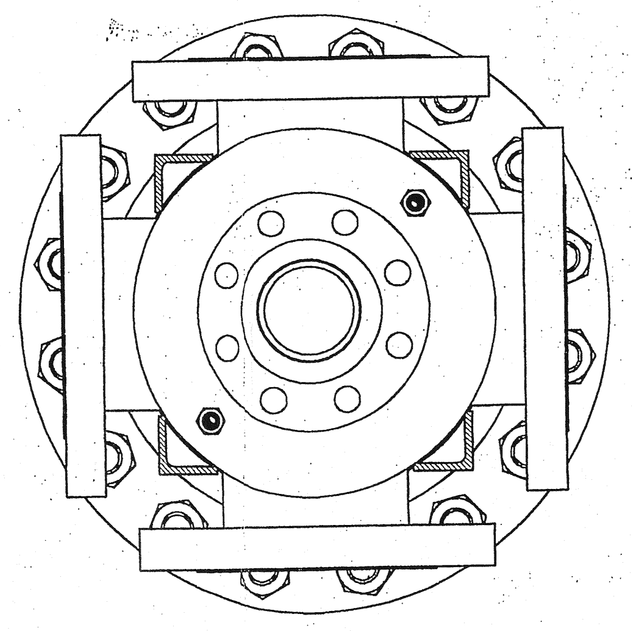
APPROX. WEIGHT	
PART NO	WEIGHT [LBS]
1	2
W1	52.9
W2	47.1
W3	6.16
W4	267.5
W5	148.8
4X W6	139.6
W7	65.5
W8	185.32
W9	47.19
W10	1.75
W11	12.66
W12	13.0
W13	25.6
W14 WATER	81.6
W15	194.4
Σ W1 TO W15	1289.08
W16 EXPANSION CYLINDERS (ASSUMED WEIGHT	150
W17 UNISTRUT STRUCTURE/ CONTAINER (ASSUMED WEIGHT)	60
TOTAL	1499.
* FERMILAB NOV. 4.04	A.S.Z.



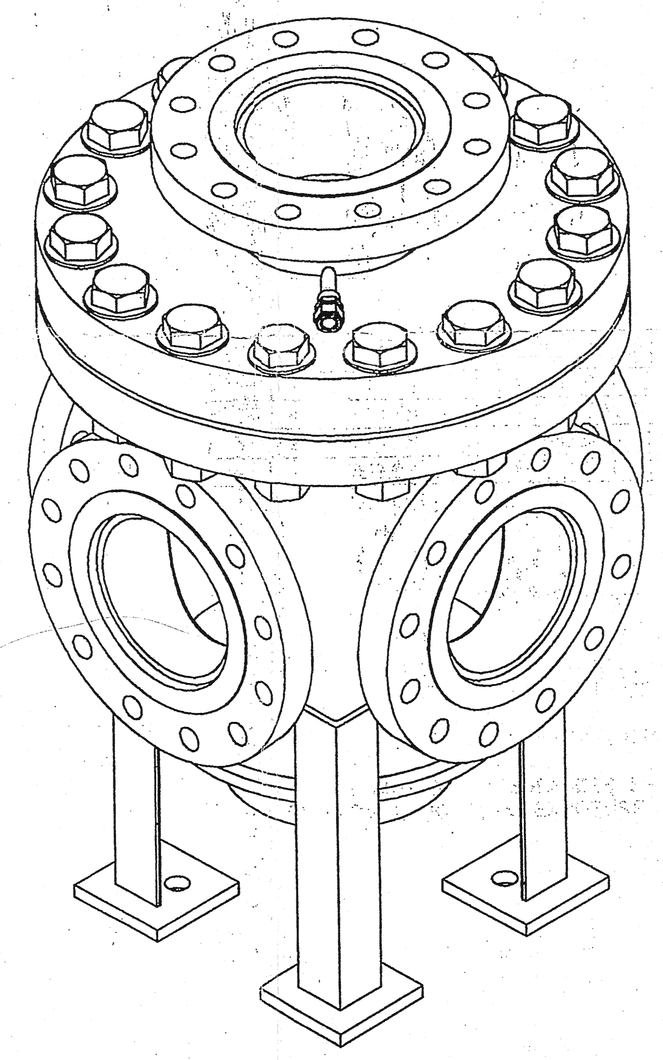
ASSEMBLY A

1 ROD





SECTION A–A



* APPROXIMATE WEIGHT OF THE INSTALLATION ASSEMBLY : 1499 Lbs

REV.	DESCRIPTION	BY	CHK'D

UNLESS NOTED OTHERWISE DIMENSIONS IN INCHES

TOLERANCES

FRACT. ± 1/16
.X ± .03
.XX ± .01
.XXX ± .005
ANGLES ± 1Deg

MTM
Meyer Tool & Mfg., Inc.

BY: CME 1/9/04 CHK'D: RDC 1/12/04

600 PSI BUBBLE CHAMBER OUTER VESSEL
GENERAL ARRANGEMENT

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SCALE	CUSTOMER	JOB NO.	DWG.	SIZE / REV.
1: 4	U OF CHICAGO	01013	01	D / 0