

ITEM	PART NUMBER	SUFFIX	QTY	LN	DESCRIPTION
1	V0494060		1	EA	FLANGE, GROOVED, 44 1/4" ID X 52" O.D.
2	V0494047		1	EA	FLANGE, FLAT FACE, 44 1/4" ID X 80" OD
3					
4	NRN		3	EA	TIE-ROD ASSY. (PER V049-4-124)
5					
6	V0494A1P1		1	EA	BELLOWS ASSY. (PER V049-2-017)
7	V049M321		3	6 EA	HALF NIPPLE, SST 304L, CONFLAT, 10" OD X 8" OD TUBE
8					
9					
10	202667		3	6 EA	FLANGE, CONFLAT, BLANK 10" OD
11					
12					
13	202678		3	24 EA	BOLT, SAI93 B7, HEX, 7/8-9 UNC X 4" LG.
14	202679		3	24 EA	NUT, SAI94 ZH, HEX, 7/8-9 UNC
15	202581		3	48 EA	WASHER, STL, 1 3/4" OD X 15/16" ID X 1/4" THK
16	V049M026		1	EA	O-RING, VITON (PER SPEC. V049-2-045)
17	V049M027		1	EA	O-RING, VITON (PER SPEC. V049-2-045)
18	202671		3	6 EA	GASKET, COP OFHC COFC, CONFLAT, 10" OD
19	V049M777		144	EA	BOLT, 18-8 SST, HEX HD, 5/16-18x2 1/2" LG.
20	V049M782		144	EA	NUT, SILICON BRZ, HEX 5/16-18
21	V049M785		288	EA	WASHER, 18-8 SST, FLAT 5/16
22	V049M061		1	EA	3/4" O.D. ELBOW X 2 3/4" O.D.CF.

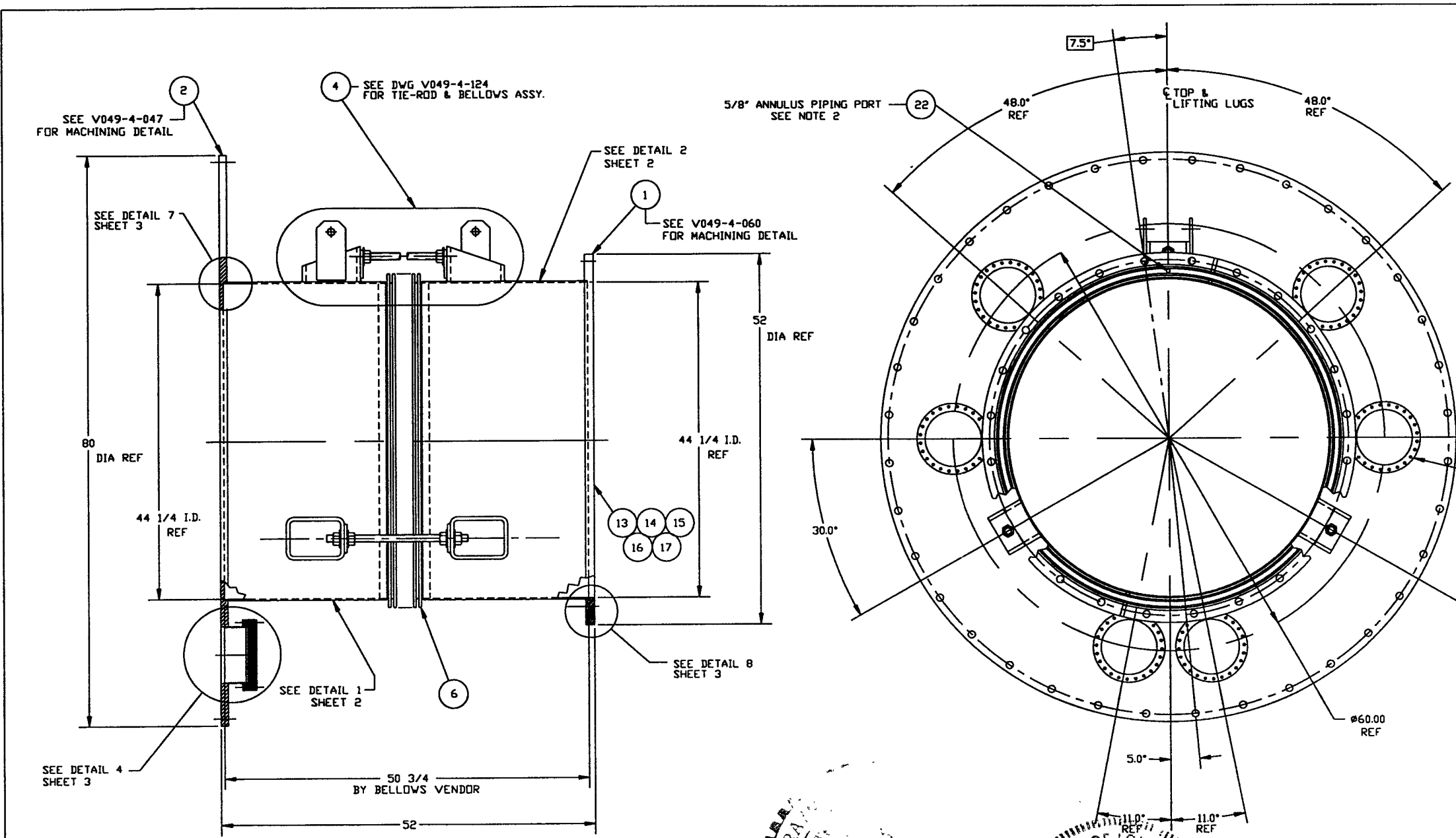
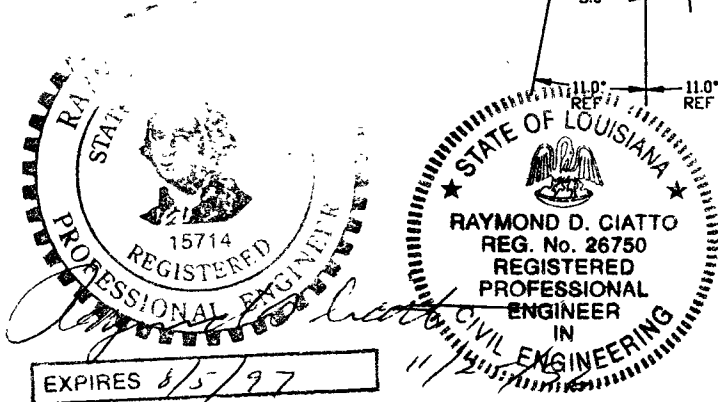
NR ELECTROLESS NICKEL PLATED
NRN SUPPLIED BY BELLOWS VENDOR

ALL CONFLATS TO SHOW BOLT HOLES STRADDLING VERTICAL C. SEE NOTE 15

NOTES:

- CONFLAT LEAK CHECK SLOTS ARE TO BE POSITIONED ON VERTICAL CENTERLINE.
- CONFLAT FLANGES ARE TO HAVE PROTECTIVE COVERS AT ALL TIMES DURING & AFTER MANUFACTURING.
- PLATES PRIOR TO ROLLING MUST HAVE DIAGONAL CORNER TO CORNER DIMENSIONS WITHIN 1/16" OF EACH OTHER.
- EACH FINISHED SHELL IS TO BE MARKED WITH A SEQUENTIAL PSI SERIAL NUMBER. THE NUMBER IS TO BE MADE FROM THE DRAWING PLUS THE SEQUENTIAL NUMBER. V0494A1-01, 02 ETC.
- TIGHTEN TIE-ROD NUTS WITH BELLOWS IN 'FREE' POSITION TO 100 FT-LB PRIOR TO LEAK TEST
- LEAK TEST & METHOD PER PSI SPEC. V049-2-014
- CERTIFIED MANUFACTURER'S MATERIAL TEST REPORTS REQUIRED, AS NOTED.
- BOLT HOLES OF ALL FLANGES TO STRADDLE VERTICAL CENTERLINE ±0.015.
- CLEAN PER SPEC. V049-2-015
- DO NOT USE CARBON STEEL BRUSHES OR BRUSHES CONTAMINATED WITH CARBON STEEL ON STAINLESS OR ALUMINUM MATERIAL.
- SPOOL FABRICATION TO BE IN ACCORDANCE WITH SPEC. V049-2-097
- FOR FLANGE DETAILS SEE DWG. V049-4-047 & 060.
- THIS FLANGE INCLUDES AN ANNULAR CHANNEL BETWEEN O-RINGS FOR A SINGLE PUMPOUT PORT, SEE DWG V049-4-061.
- WDS NO'S. REFER TO WELD DATA SPEC. V049-2-084.

APPROX. WEIGHT: 1849#



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SYMBOL	CHARACTERISTIC	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
□	FLATNESS	FRACTIONAL ± .3
○	CYLINDRICITY	ANGULAR ± .001
∥	PARALLELISM	TWO PLACE DECIMAL ± .005
⊥	PERPENDICULARITY	FINISHED SURFACE TO BE BREAK CORNERS TO REMOVE ALL BURRS
∠	ANGULARITY	DO NOT SCALE THIS DRAWING
⊕	TRUE POSITION	USED ON:
⊙	CONCENTRICITY	NEXT ASSY.

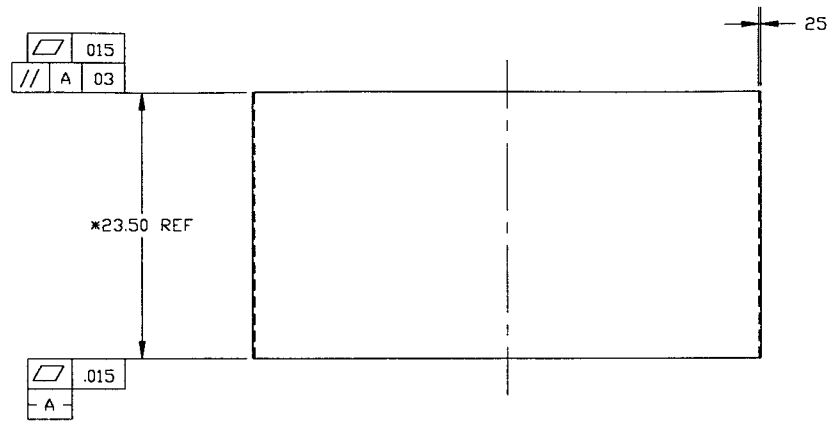
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2	DESIGN UPDATE/ISSUED FOR FABRICATION			11/22/96	0180
1	DESIGN UPDATE / FABRICATION (BELLOWS ASSY. ONLY)			9/11/96	0191
0	ISSUED FOR FDR			4/27/96	0145
PI	PRELIMINARY			4/13/96	

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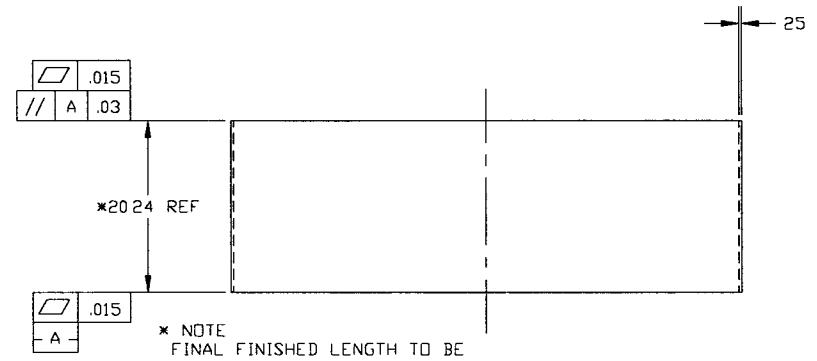
PROCESS SYSTEMS INTERNATIONAL, INC.
20 WALCUP DR. WESTBOROUGH, MASSACHUSETTS 01581 USA

ADAPTER A-1
44 1/4" ID X 72 1/4" I.D.
LIGD VACUUM EQUIPMENT

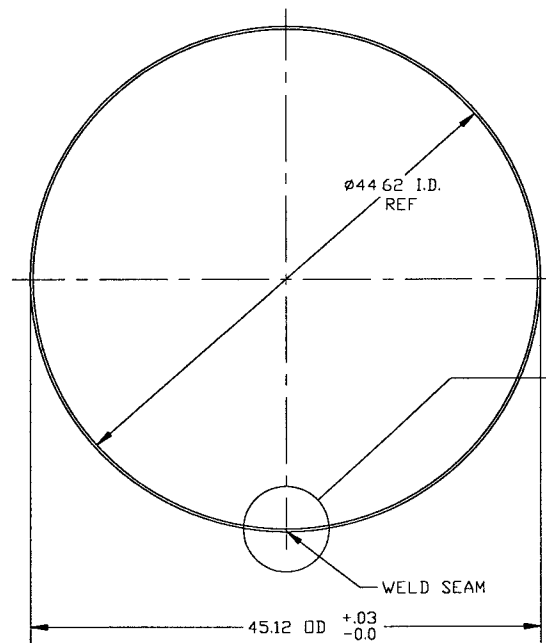
CAD FILE: V049-4-A1
SCALE: 1-1/2" = 1"
SHEET: 1 OF 3



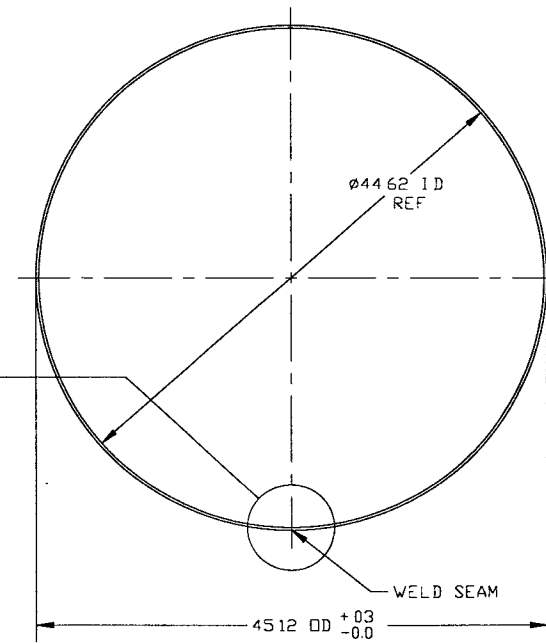
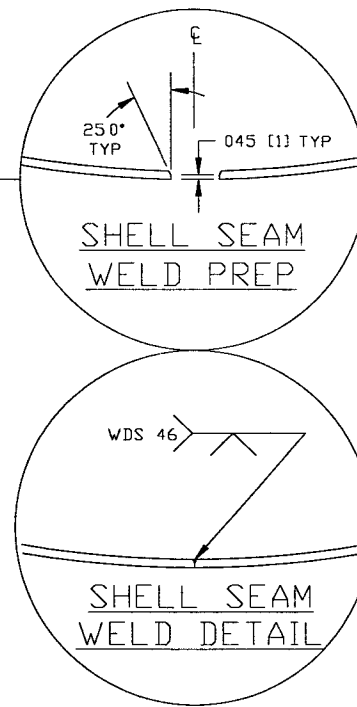
* NOTE
FINAL FINISHED LENGTH TO BE
DETERMINED BY BELLOWS VENDOR



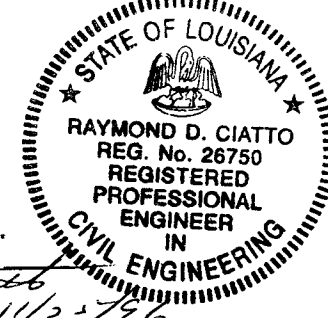
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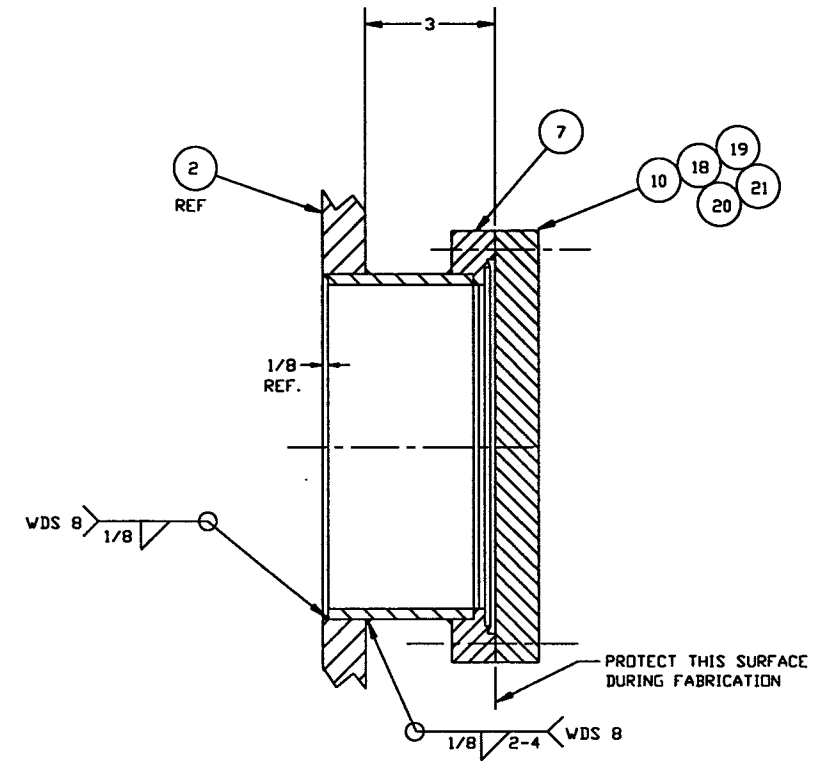
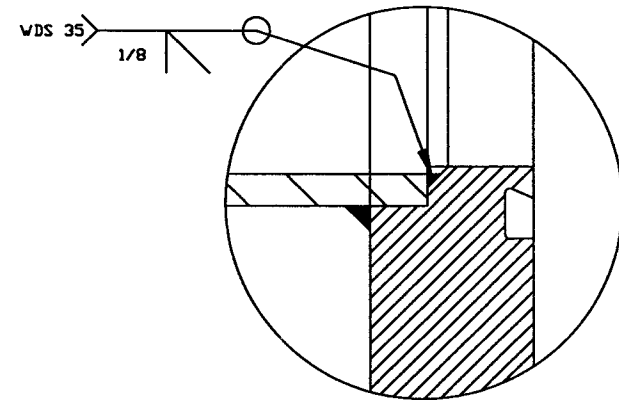
DETAIL 1
QTY: 1
MAKE FROM V049M159-1



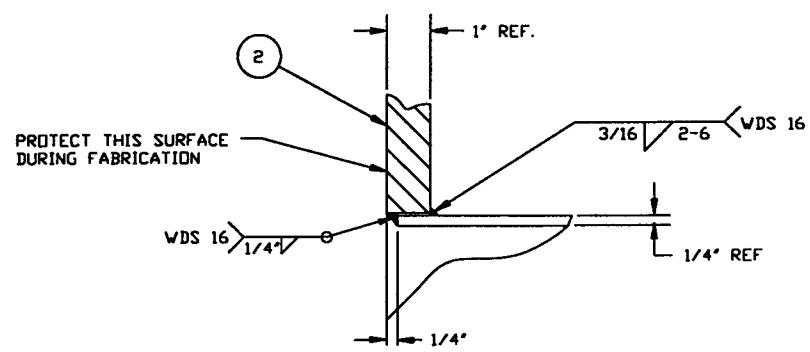
DETAIL 2
QTY: 1
MAKE FROM V049M159-1



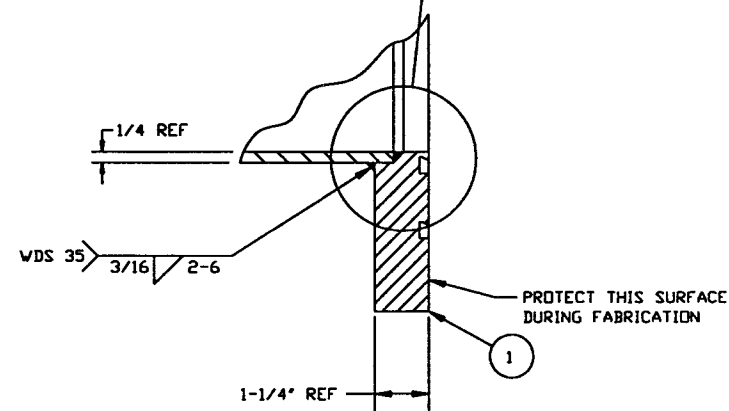
PROCESS SYSTEMS INTERNATIONAL INC. 20 WALKUP DR WESTBOROUGH, MASSACHUSETTS 01581 USA			
ADAPTER A-1 44 5/8" I.D. X 72 1/4" I.D. LIGD VACUUM EQUIPMENT			
CAD FILE 4A1S2	SIZE D	DWG NO. V049-4-A1	REV 2
SCALE AS NOTED	SHEET 2 OF 3		



DETAIL 4
6 PLCS.




DETAIL "7"



DETAIL "8"

STATE OF LOUISIANA
 RAYMOND D. CIATTO
 REG. No. 26750
 REGISTERED
 PROFESSIONAL
 ENGINEER
 IN
 CIVIL ENGINEERING
 11/21/96
 EXPIRES 8/5/97

 PROCESS SYSTEMS INTERNATIONAL INC. 20 WALKUP DR. WESTBOROUGH, MASSACHUSETTS 01581 USA			
ADAPTER A-1 44 5/8 I.D. X 72 1/4 I.D. LIGD VACUUM EQUIPMENT			
CAD FILE 4A1S3	SIZE D	DWG. NO. V049-4-A1	REV. 2
SCALE AS NOTED	SHEET 3 OF 3		