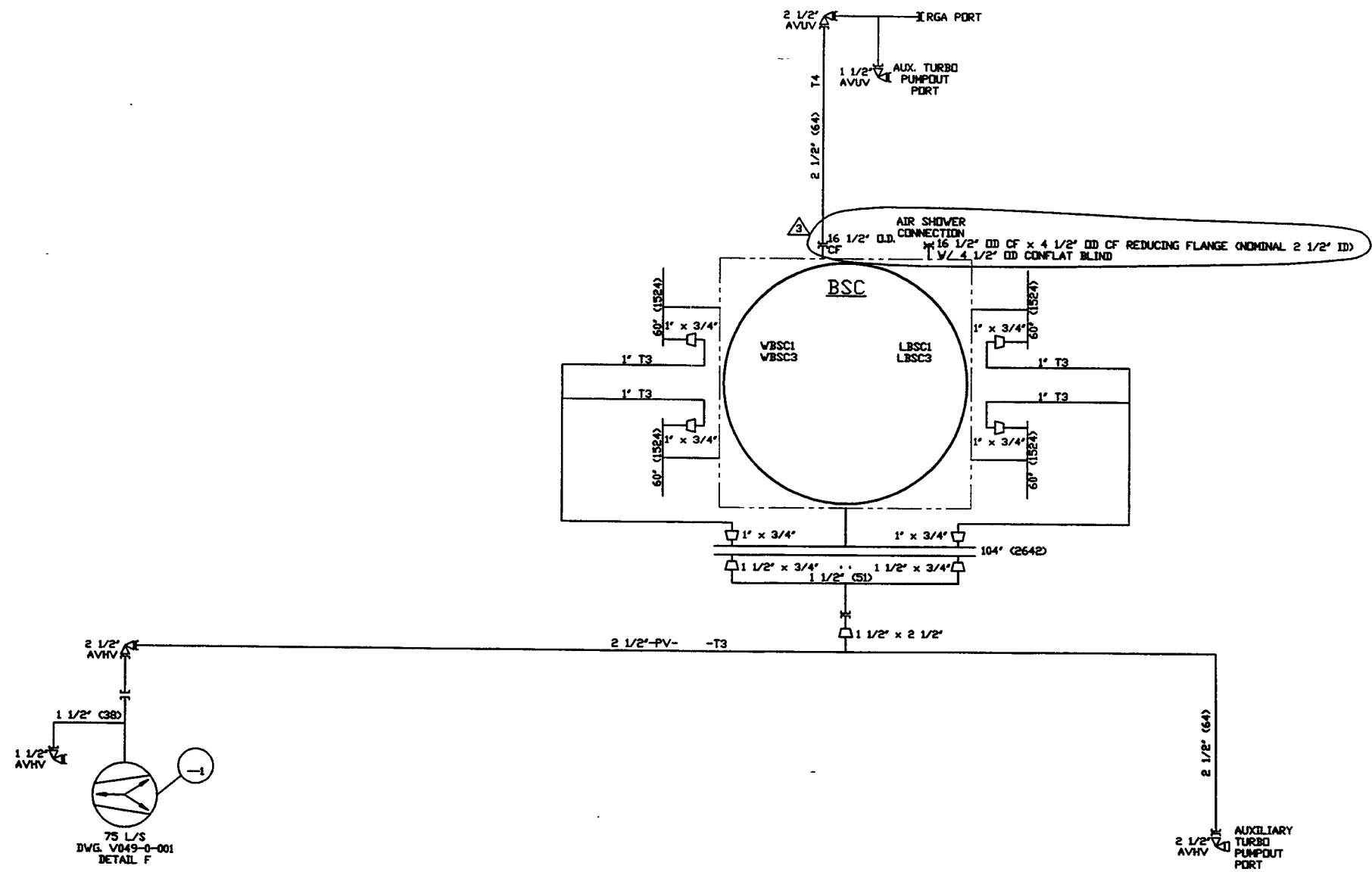


TABLE 1

CHAMBER	IDN PUMP CONTROL	VACUUM LINE
VBSC1	111	2 1/2"-PV-196-T3
VBSC3	131	2 1/2"-PV-197-T3
LBSC1	611	2 1/2"-PV-670-T3
LBSC3	631	2 1/2"-PV-671-T3

NOTES:

1. EACH PUMPOUT PORT LOCATION HAS BOTH POWER & CONTROL PLUG-IN CONNECTIONS.
2. ALL VACUUM GAUGES TO BE BAKED OUT AT 250 C DURING PUMPDOWN, USING A REMOVABLE BLANKET TYPE HEATER. ALL VACUUM SECTIONS SHALL ALSO BE BAKED OUT AT 150 C DURING PUMPDOWN USING A REMOVABLE BLANKET TYPE HEATER. SEE DWG. V049-0-043 FOR BAKEDOUT SYSTEM.
3. DIMENSIONS IN ( ) ARE IN MILLIMETERS.
4. SEE TABLE 1 FOR INSTRUMENT TAG NUMBERS AND PIPING LINE NUMBERS.



LIGO-D961071-03-V

<p><b>PROPRIETARY AND CONFIDENTIAL</b></p> <p>THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION BELONGING TO PROCESS SYSTEMS INTERNATIONAL, INC. OR ITS AFFILIATED COMPANIES AND SHALL BE USED ONLY FOR THE PURPOSE FOR WHICH IT WAS SUPPLIED. IT SHALL NOT BE COPIED, REPRODUCED OR OTHERWISE PUBLISHED IN WHOLE OR IN PART TO ANY OTHER PARTY WITHOUT THE WRITTEN CONSENT OF PROCESS SYSTEMS INTERNATIONAL, INC. AND SHALL BE RETURNED UPON REQUEST.</p>		<p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES</p> <p>TOLERANCES: FRACTIONS: DECIMALS: ANGULARS: 0°-90°: 0.004" 90°-180°: 0.005" 180°-270°: 0.006" 270°-360°: 0.007" SURFACE FINISH: UNLESS OTHERWISE SPECIFIED: 32 RMS</p> <p>DO NOT SCALE THIS DRAWING</p> <p>USED ON: NEXT ASS'Y:</p>		<p>3 REVISED</p> <p>2 ISSUE FOR FOR UPDATE</p> <p>1 ISSUE FOR FOR</p> <p>0 ISSUE FOR DESIGN</p> <p>P2 REVISED</p> <p>P1 PRELIMINARY DESIGN UPDATE</p>		<p>02.14.97 0435</p> <p>10.25.96 0309</p> <p>04.26.96 0134</p> <p>01.03.96 0031</p> <p>10.02.95 0003</p> <p>09.26.95 -</p>		<p><b>PROCESS SYSTEMS INTERNATIONAL, INC.</b></p> <p>20 WALDIP DR. WESTBOROUGH, MASSACHUSETTS 01581 USA</p> <p><b>PIPING &amp; INSTRUMENTATION DIAGRAM</b></p> <p><b>LIGO VACUUM EQUIPMENT</b></p> <p><b>BEAM SPLITTER CHAMBER (BSC)</b></p> <p><b>CORNER VERTEX ARMS</b></p>		<p>CAD FILE: V0490003</p> <p>REV: D</p> <p>DWG NO: V049-0-003</p> <p>REV: 3</p>		<p>SCALE: NONE</p> <p>SHEET: 1 OF 1</p>			
<p>8</p>		<p>7</p>		<p>6</p>		<p>5</p>		<p>4</p>		<p>3</p>		<p>2</p>		<p>1</p>	