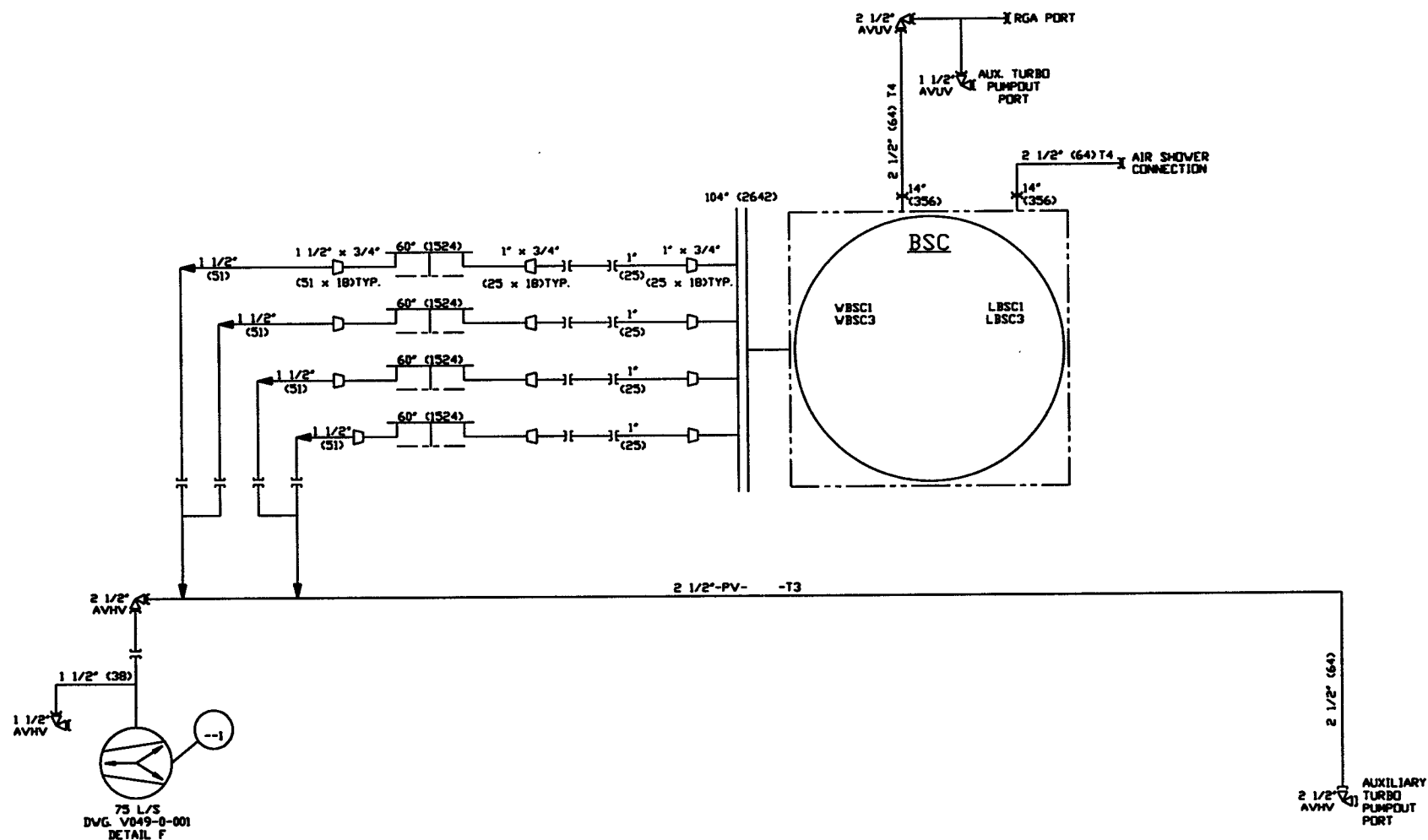


NOTES:

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.

TABLE 1

CHAMBER	ION PUMP CONTROL	VACUUM LINE
VBSC1	111	4"-PV-196-T3
VBSC3	131	4"-PV-197-T3
LBSC1	611	4"-PV-670-T3
LBSC3	631	4"-PV-671-T3



LIGO D961071-01-V

<p>PROPRIETARY AND CONFIDENTIAL</p> <p>THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION BELONGING TO PROCESS SYSTEMS INTERNATIONAL, INC. OR ITS SUBSIDIARIES AND SHALL BE USED ONLY FOR THE PURPOSE FOR WHICH IT WAS SUPPLIED. IT SHALL NOT BE COPIED, REPRODUCED OR OTHERWISE USED FOR ANY OTHER PURPOSE 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: FRACTIONAL & DECIMALS: .005" NOMINAL TWO PLACE DECIMAL: .01" NOMINAL THREE PLACE DECIMAL: .005" NOMINAL FROSTED SURFACE: .01" NOMINAL REMOVE ALL BURS</p>		<p>1 ISSUE FOR FAB</p> <p>0 ISSUE FOR DESIGN</p> <p>PE REVISED</p> <p>PI PRELIMINARY DESIGN UPDATE</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>REV TS RT SM DMV RJV</p> <p>RJV</p> <p>KY</p>		<p>09.26.95</p> <p>09.26.95</p>		<p>0134</p> <p>0031</p> <p>0003</p> <p>-</p>		<p>0134</p> <p>0031</p> <p>0003</p> <p>-</p>	
<p>V049-0-001 P & ID LEGEND</p>		<p>DO NOT SCALE THIS DRAWING</p>		<p>USED ON:</p>		<p>SCALE: NONE</p>		<p>SIZE: D</p>		<p>DWG. NO: V049-0-003</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>	

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PIPING & INSTRUMENTATION DIAGRAM
LIGO VACUUM EQUIPMENT
BEAM SPLITTER CHAMBER (BSC)
CORNER VERTEX ARMS

CAD FILE: V0490003
Dwg. No: V049-0-003
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