



- NOTES:**
1. EACH PUMP/OUT 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. BEAM MANIFOLD DIMENSIONS INDICATE INSIDE DIAMETERS.
 5. ATMOSPHERIC AIR INTAKE SHALL BE LOCATED AWAY FROM SOURCES OF CONTAMINATION.
 6. BEAM MANIFOLD FLANGE ANNULUS ION PUMP DETAILS LATER.
 7. ON 1 1/2\"/>
 - 8. PROVIDE A CF BLANK WITH A 25 OF SEAL-OFF FITTING

<p>PROPRIETARY AND CONFIDENTIAL</p> <p>THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION BELONGING TO PROCESS SYSTEMS INTERNATIONAL, INC. OR ITS AFFILIATED COMPANIES AND SHALL BE USED ONLY FOR THE PURPOSES FOR WHICH IT WAS SUPPLIED. IT SHALL NOT BE COPIED, REPRODUCED OR OTHERWISE USED, NOR SHALL SUCH INFORMATION BE FURNISHED IN WHOLE OR IN PART TO OTHERS EXCEPT IN ACCORDANCE WITH THE TERMS OF ANY AGREEMENT UNDER WHICH IT WAS SUPPLIED OR WITH THE PRIOR WRITTEN CONSENT OF PROCESS SYSTEMS INTERNATIONAL, INC. AND SHALL BE RETURNED UPON REQUEST.</p>				<p>REFERENCE DRAWINGS</p>		<p>EQIP. THIS DWG.</p> <p>LGV11 LCP4 LGV12 LTC4 LBSC4 LIP6</p>	<p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES FRACTIONAL & DECIMALS 00-30" 0000 42" TWO PLACE DECIMAL & ARE FINISHED SURFACE UNLESS OTHERWISE NOTED REMOVE ALL BURRS</p>	<p>5 REISSUED FOR FDR UPDATE</p> <p>4 REVISED</p> <p>3 REVISED</p> <p>2 ISSUE FOR FDR UPDATE</p> <p>1 ISSUE FOR FDR</p> <p>0 ISSUE FOR DESIGN</p>	<p>DA 6/11/97 0499</p> <p>SH IMcV RJV 02.14.97 0435</p> <p>SH IMcV RJV 01.03.97 0394</p> <p>TS RT SH IMcV RJV 10.25.96 0309</p> <p>TS RT SH IMcV RJV 04.26.96 0134</p> <p>TS RT SH IMcV RJV 01.03.96 0031</p>	<p>PROCESS SYSTEMS INTERNATIONAL INC. 20 WALCUP DR. WESTBOROUGH, MASSACHUSETTS 01581 USA</p> <p>PIPING & INSTRUMENTATION DIAGRAM LIGO VACUUM EQUIPMENT LOUISIANA SITE RIGHT END STATION</p>	<p>DWG. NO. V049-0-025</p> <p>REV. 5</p>
NO.	DWG. NO.	DESCRIPTION	DWG. NO.	DESCRIPTION	REV.	DESCRIPTION	CHKD	DRWN	DATE	DESB	
6	V049-0-041	P & ID TURBO PUMP CART									
7	V049-0-021	P & ID LEFT & RIGHT MID JOINTS									
	V049-0-006	P & ID 80K CRYOPUMP									
	V049-0-002	P & ID BEAM SPLITTER CHAMBER									
	V049-0-001	P & ID LEGEND									

LIGO-D961089-05-V