



- 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 250 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 ICM PUMP DETAILS LATER
 7. ON 12\"/>

ELECTRONIC COPY

PROPRIETARY AND CONFIDENTIAL		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 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.		EQUIP THIS DWG		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		6 AS-BUILT		LD 082598 0628				
V049-0-041	P & ID TURBO PUMP CART			WBSC10	5	REISSUED FOR FDR UPDATE	SH	DA	6/11/97	0499				
V049-0-011	P & ID LEFT MID STATION			WTCS	4	REVISED	SH	DMCW	RJW	021497	0435			
V049-0-006	P & ID 60K CRYOPUMP			WGV18	3	REVISED	SH	DMCW	RJW	010397	0394			
V049-0-002	P & ID BEAM SPLITTER CHAMBER			WCP7	2	ISSUE FOR FDR UPDATE	TS	RT	SH	DMCW	RJW	102596	0309	
V049-0-001	P & ID LEGEND			WPI1	1	ISSUE FOR FDR	REB	TS	RT	SH	DMCW	RJW	042696	0134
DWG NO	DESCRIPTION	DWG NO	DESCRIPTION	DD NOT SCALE THIS DRAWING	0	ISSUE FOR DESIGN	REB	TS	RT	SH	DMCW	RJW	010396	0031
REFERENCE DRAWINGS				USED ON	REV	DESCRIPTION	CHKD	DRWN	DATE	DESN	SCALE		NDNE	
				NEXT ASS'Y	ISSUE DESCRIPTION		SHEET		1 OF 1		SCALE		NDNE	

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

PIPING & INSTRUMENTATION DIAGRAM
LIGO VACUUM EQUIPMENT
WASHINGTON SITE
LEFT END STATION

CAD FILE: V0490010
SIZE: D
DWG NO: V049-0-010
REV: 6