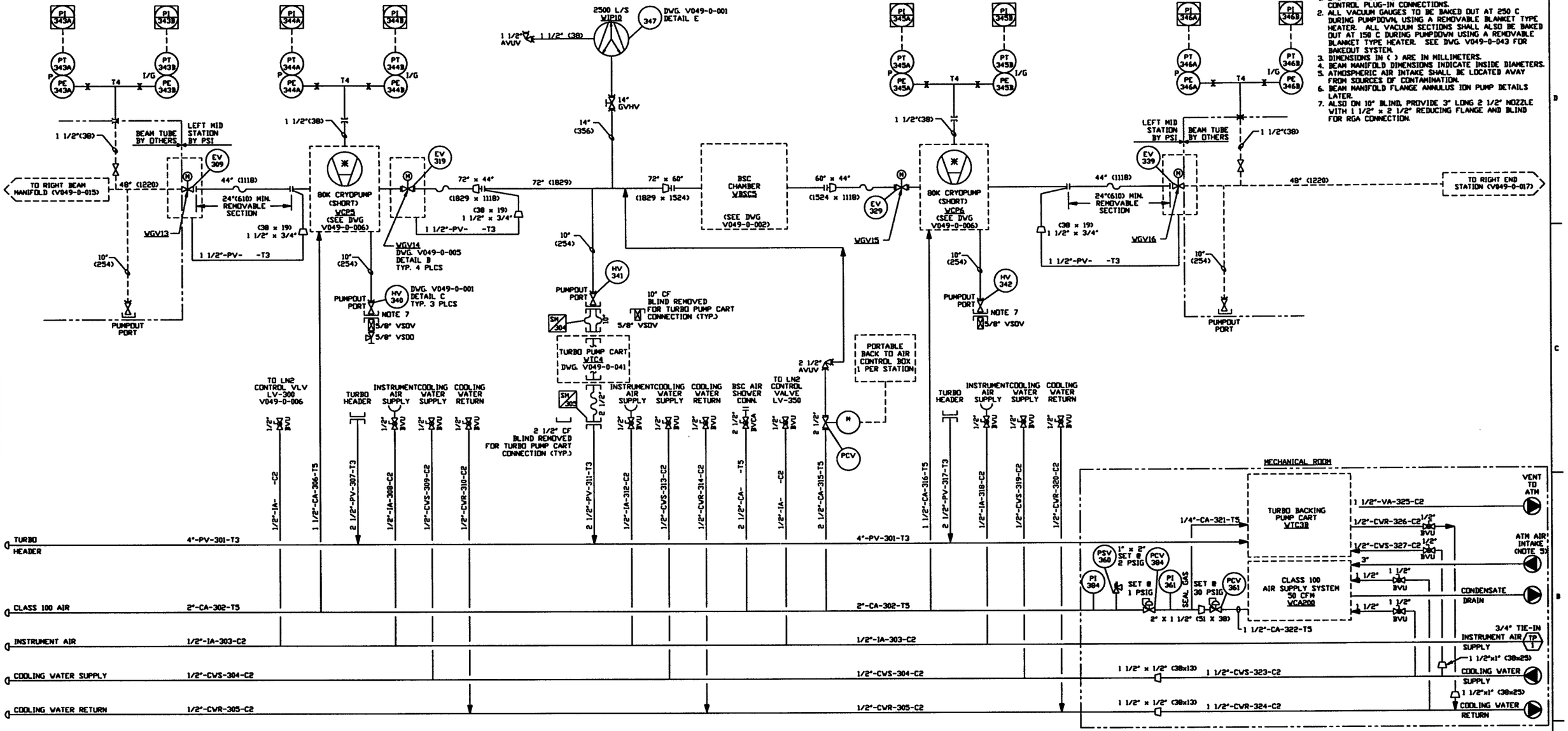
NOTES:

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 BAKEOUT 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. ALSO ON 10" BLIND, PROVIDE 3" LONG 2 1/2" NOZZLE WITH 1 1/2" x 2 1/2" REDUCING FLANGE AND BLIND FOR RGA CONNECTION.



LIGO D961081-01-V

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REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	DWG. NO.	DESCRIPTION
V049-0-041	P & ID TURBO PUMP CART		
V049-0-017	P & ID RIGHT END STATION		
V049-0-015	P & ID RIGHT BEAM MANIFOLD		
V049-0-006	P & ID 80K CRYOPUMP		
V049-0-002	P & ID BEAM-SPLITTER CHAMBER		
V049-0-001	P & ID LEGEND		

EQUIP. THIS DWG.

VGV13	VCP5
VGV14	VCP6
VGV15	VBSC5
VGV16	VTC4
VIP10	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES
FRACTIONAL ±
ANGULAR/MACH ±0°-30' BEND ±0°
TWO PLACE DECIMAL ± .01
THREE PLACE DECIMAL ± .005
FINISHES SURFACE RMS
BREAK CORNERS ON EDGES
REMOVE ALL BURRS

DO NOT SCALE THIS DRAWING

USED ON

NEXT ASS'Y

REV	DESCRIPTION					CHKD	DRWN	DATE	DCO#
1	ISSUED FOR FDR	REB	TS	RT	SH	DMV	RV	04.26.96	0134
0	ISSUE FOR DESIGN	REB	TNS	RT	SH	DMV	RV	01.03.96	0031
P1	PRELIMINARY DESIGN UPDATE	REB					AFG	09.26.95	0003

ISSUE DESCRIPTION

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

PIPING & INSTRUMENTATION DIAGRAM
LIGO VACUUM EQUIPMENT
WASHINGTON SITE
RIGHT MID STATION

CAD FILE	SIZE	DWG. NO.	REV.
V0490016	D	V049-0-016	1
SCALE NONE		SHEET 1 OF 1	

Apr 26, 1996 - 003354