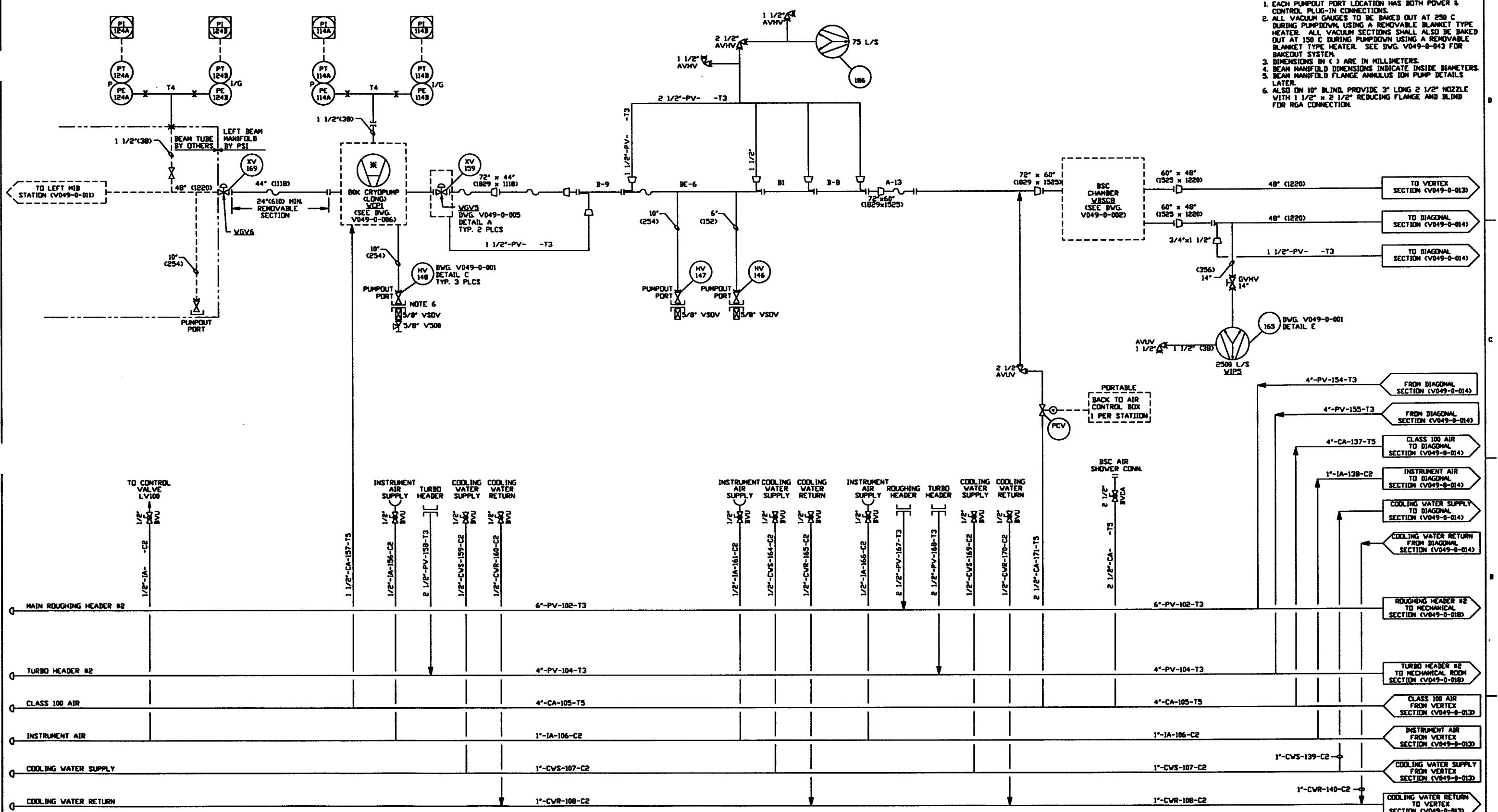


NOTES:

- EACH PUMPOUT PORT LOCATION HAS BOTH POWER & CONTROL PLUG-IN CONNECTIONS.
- 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.
- DIMENSIONS IN () ARE IN MILLIMETERS.
- BEAM MANIFOLD DIMENSIONS INDICATE INSIDE DIAMETERS.
- BEAM MANIFOLD FLANGE ANNULUS IDN PUMP DETAILS LATER.
- 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.



KEY AND CONTINENTAL	V049-0-014	P & ID DIAGONAL SECTION
CONTENTS PROPRIETARY INFORMATION BELONGING TO PROCESS SYSTEMS INTERNATIONAL, INC. WHICH IS FURNISHED ONLY FOR THE PURPOSE FOR WHICH IT WAS SUPPLIED. IT SHALL NOT BE COPIED, REPRODUCED OR OTHERWISE USED, IN WHOLE OR IN PART, EXCEPT IN ACCORDANCE WITH THE TERMS OF ANY AGREEMENT MADE WHICH IT WAS SUPPLIED OR WITH THE PRIOR WRITTEN APPROVAL OF PROCESS SYSTEMS INTERNATIONAL, INC. AND SHALL BE RETURNED UPON REQUEST.	V049-0-013	P & ID VERTEX SECTION
V049-0-011	V049-0-012	P & ID LEFT MID STATION
V049-0-006	V049-0-005	P & ID 80K CRYOPUMP
V049-0-002	V049-0-001	P & ID BEAM SPLITTER CHAMBER
V049-0-001	V049-0-001	P & ID LEGEND

REFERENCE DRAWINGS

DESCRIPTION

DWG. NO.

EQUIP. THIS DWG.
WGV6
WCP1
WGV5
VSCB
VIPS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRCTIONAL: ±
ANGULAR: 10°-30° READ AS
TWO PLACE DECIMAL ± 10°
TYPICAL TOLERANCES: ± .005
FINISHED SURFACE ONE SIDE
BREAK CORNERS IN OUT
REMOVE ALL BURRS

DO NOT SCALE THIS DRAWING

P1 PRELIMINARY DESIGN UPDATE

USED ON

NEXT ASSY:

ISSUE DESCRIPTION

ISSUE DESCRIPTION

CKD DRW DATE DECR

PROCESS SYSTEMS INTERNATIONAL, INC.
20 WILBUR DR. WESTBOROUGH, MASSACHUSETTS 01581 USA
DWG. NO. V049-0-012 REV. 1
CAB FILE V049002 SIZE D.
PRINT NO. 1 OF 1
APR 2006 - 14:00:07

PIPING & INSTRUMENTATION DIAGRAM
LIGO VACUUM EQUIPMENT
WASHINGTON SITE
LEFT BEAM MANIFOLD

CAB FILE V049002 SIZE D.
PRINT NO. 1 OF 1

APR 2006 - 14:00:07