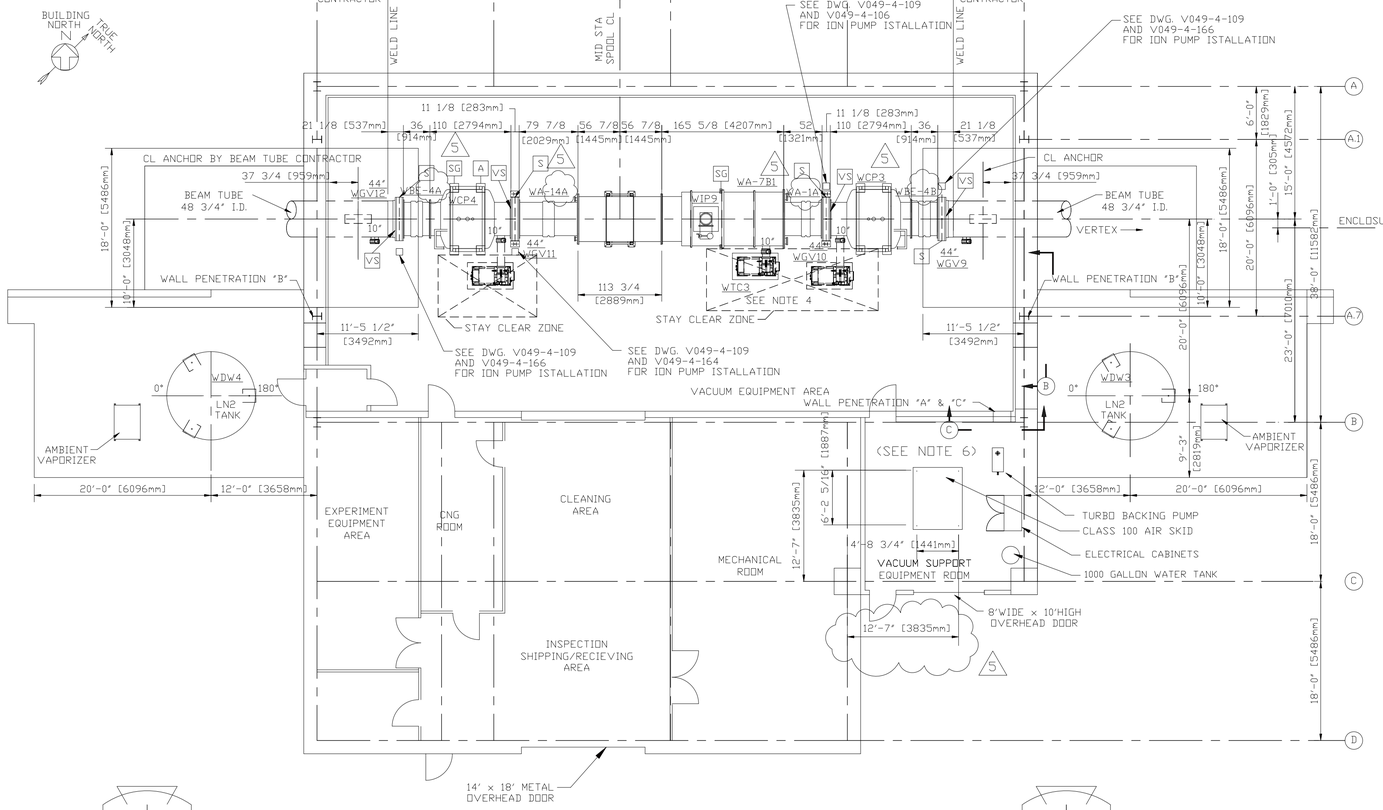
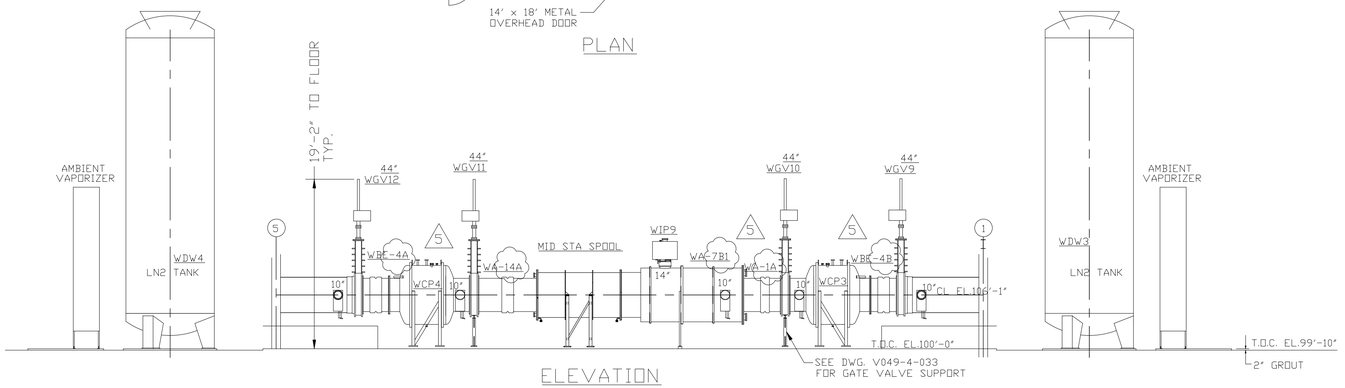
REFERENCE DRAWINGS	
DWG. NO.	DESCRIPTION
V049-0-100	DRAWING TREE/BOM STRUCTURE
V049-0-001	P&ID FOR LIGO VACUUM EQUIPMENT
V049-2-021	SPEC. FOR INSTALLATION/COMMISSIONING
WA-A-201	PARSONS ARCHITECTURAL MID STATIONS FLOOR PLAN
1101103	LIGO VACUUM EQUIPMENT MID STATIONS

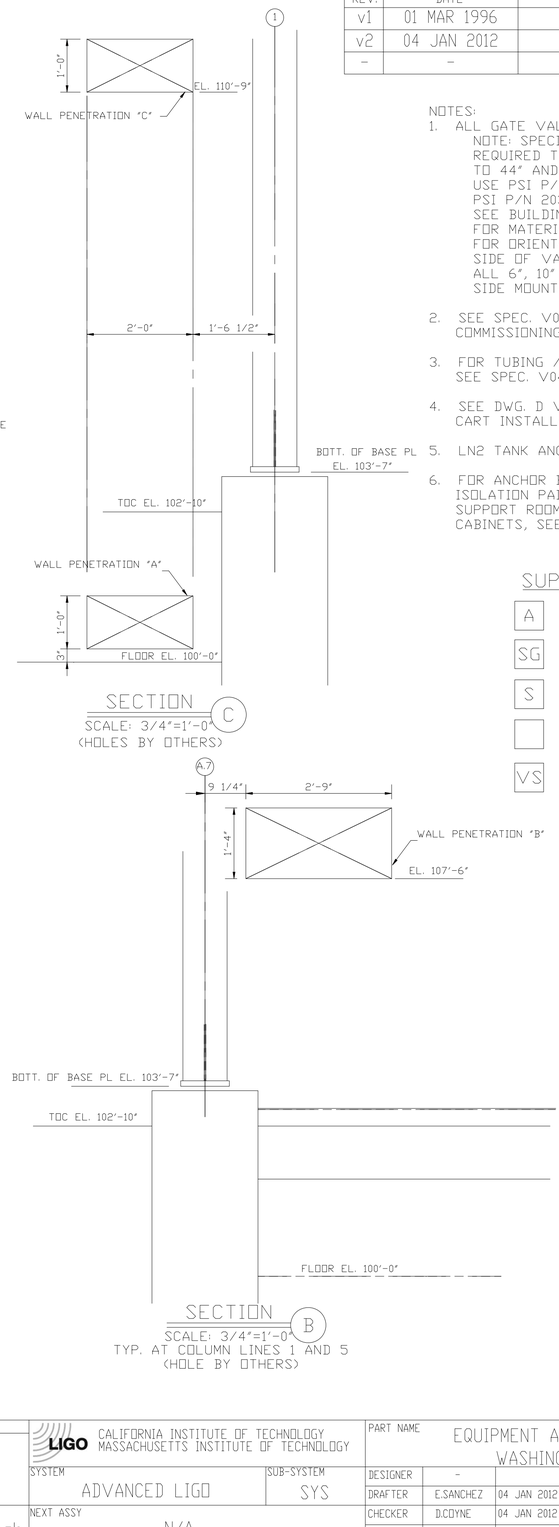
REV.	DATE	DCN #	DRAWING TREE #
v1	01 MAR 1996	-	-
v2	04 JAN 2012	E1300006-x0	-
-	-	-	-



PLAN

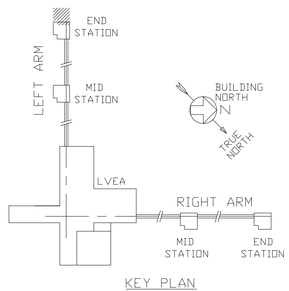


ELEVATION



SECTION C
SCALE: 3/4"=1'-0"
(HOLES BY OTHERS)

SECTION B
SCALE: 3/4"=1'-0"
TYP. AT COLUMN LINES 1 AND 5
(HOLE BY OTHERS)



KEY PLAN

NOTES:
1. ALL GATE VALVES ARE SUPPLIED BY PSI.
   NOTE: SPECIAL BOLTS AND WASHERS ARE REQUIRED TO CONNECT SPOOL FLANGES TO 44" AND 48" GATE VALVES.
   USE PSI P/N 203567 FOR BOLTS AND PSI P/N 203568 FOR WASHERS.
   SEE BUILDING BOM V049100WA FOR MATERIALS.
   FOR ORIENTATION OF LARGE GATE VALVES SEE SIDE OF VALVE NOTED BY SYMBOL 'VS' IN PLAN BELOW. ALL 6", 10" & 14" GATE VALVES ARE TO HAVE SEAL SIDE MOUNTED TOWARD VESSEL.
2. SEE SPEC. V049-2-021 FOR INSTALLATION. COMMISSIONING INFORMATION.
3. FOR TUBING / PIPE SUPPORT REQUIREMENTS, SEE SPEC. V049-2-021, SECTION 10.
4. SEE DWG. D V049-4-011 FOR TURBO PUMP CART INSTALLATION.
5. LN2 TANK ANCHOR BOLTS BY OTHERS.
6. FOR ANCHOR BOLT AND VIBRATION ISOLATION PAD REQUIREMENTS FOR VACUUM SUPPORT ROOM EQUIPMENT AND ELECTRICAL CABINETS, SEE DWG V049-5-028, DETAIL 2.

SUPPORTS LEGEND

A	3 WAY ANCHOR
SG	SUPPORT/GUIDE (AXIALLY FLEXIBLE)
S	VALVE SUPPORT
	GATE VALVE ION PUMP LOCATION
VS	VALVE SEAL SIDE

NOTE:
*REPLACES WITH CHANGE DRAWING V049-5-006, REV-5.

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

MATERIAL: N/A
FINISH: N/A minch

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SYSTEM: ADVANCED LIGO
SUB-SYSTEM: SYS
NEXT ASSY: N/A

PART NAME: EQUIPMENT ARRANGEMENT PLAN, LEFT MID STA WASHINGTON, LIGO VACUUM EQUIPMENT

DESIGNER	-		SIZE: D
DRAFTER	E.SANCHEZ	04 JAN 2012	DWG. NO.: D961170
CHECKER	D.COYNE	04 JAN 2012	REV.: V2
APPROVAL	D.COYNE	04 JAN 2012	SCALE:1/8" = 1' - 0" PROJECTION: SHEET 1 OF 1