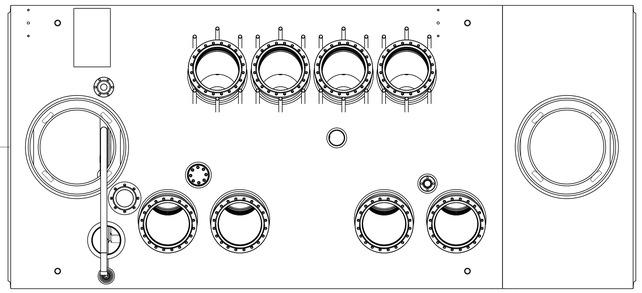
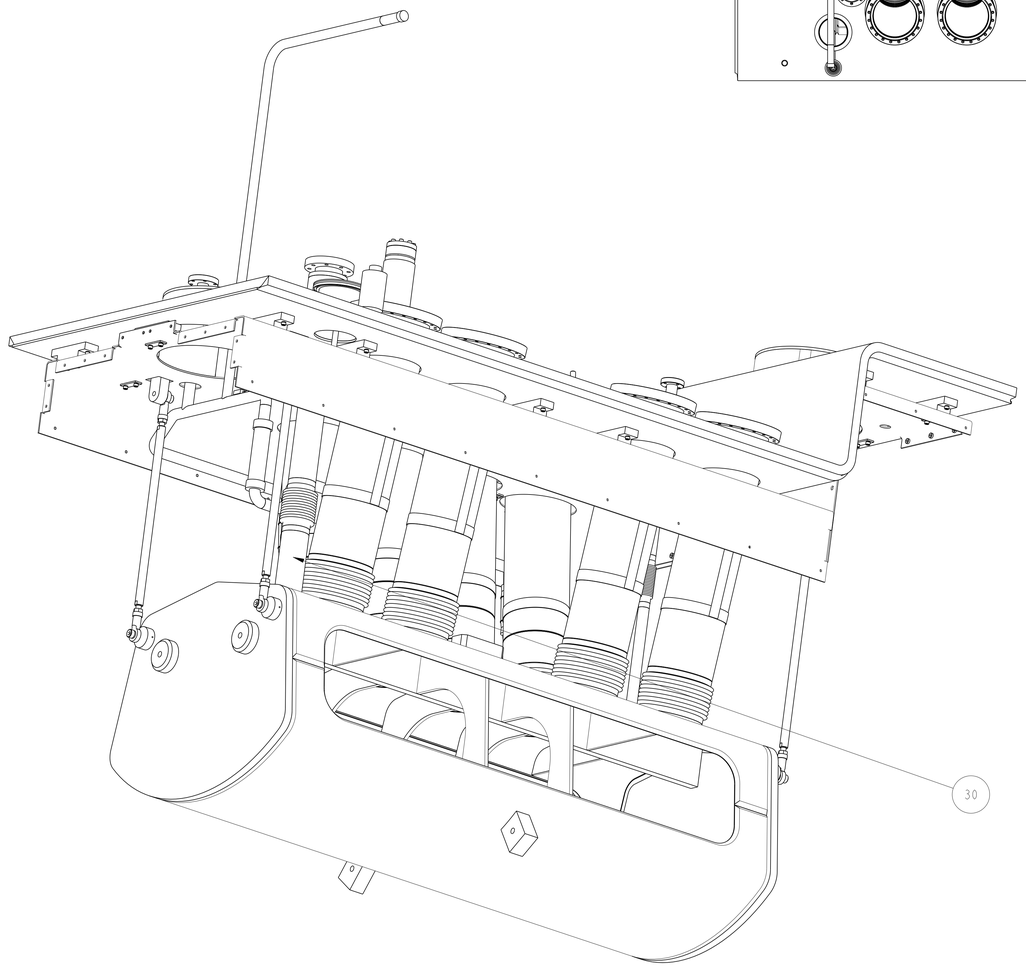
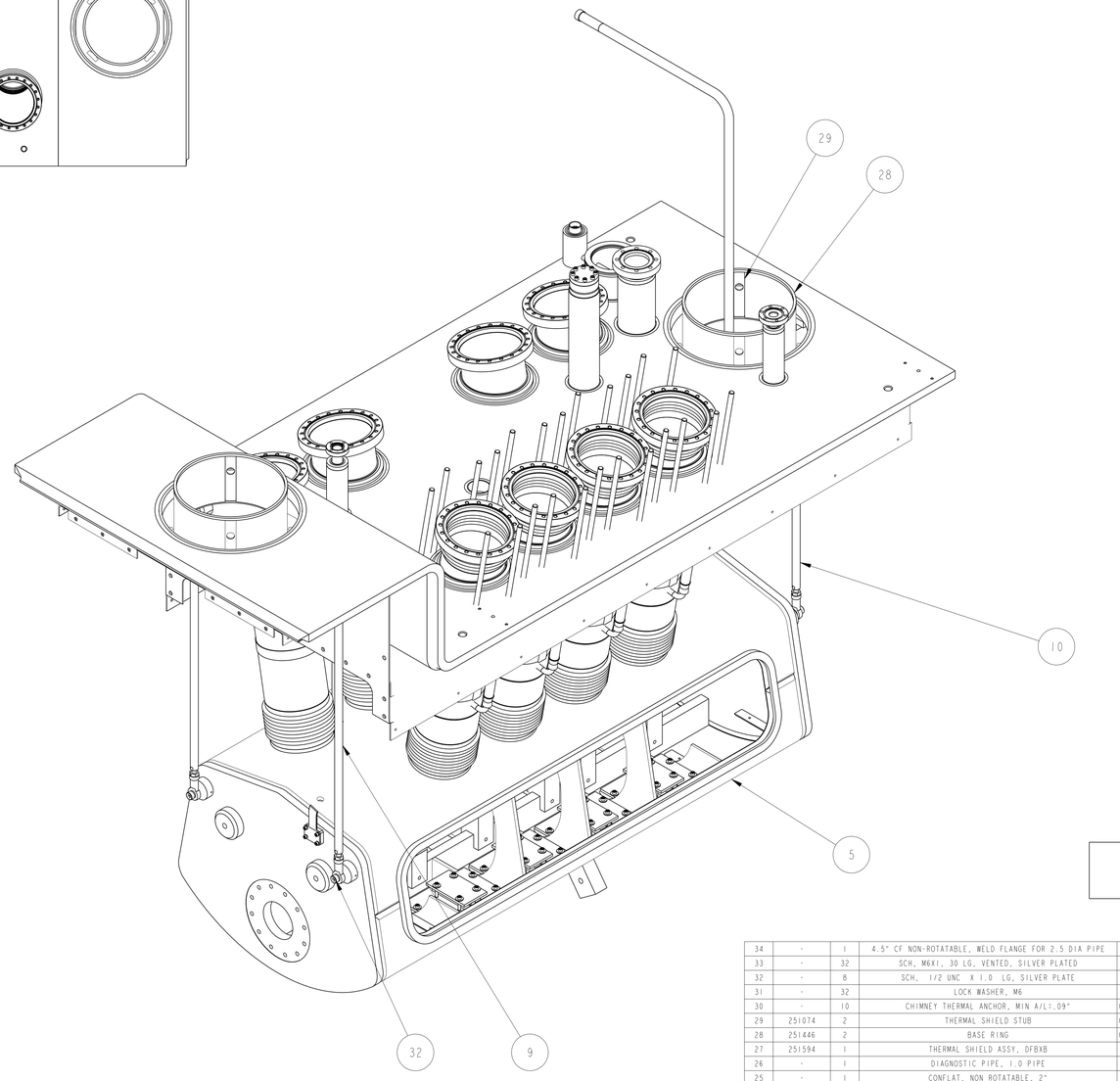


SCALE 1/8



SCALE 3/16



SCALE 3/16

NOTES: UNLESS OTHERWISE SPECIFIED,

1. DIMENSIONS AND TOLERANCING PER ANSI Y14.5M-1982 UNITS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.
2. USE OF SULFUR OR SILICONE BEARING OILS, LUBRICANTS, OR COOLANTS ARE STRICTLY PROHIBITED
3. USE OF RESIN OR RUBBER BONDED ADRASIVES UNDER POWER IS STRICTLY PROHIBITED. USE VITREOUS BONDED ABRASIVES ONLY.
4. CLEAN AFTER MACHINING PER VENDOR SPECIFICATION; SUBJECT TO LBNL APPROVAL.
5. VENDOR SUGGESTED CHANGES TO WELD PREPS; SUBJECT TO LBNL APPROVAL.
6. PROTECT FINISHED PART BY BAGGING OR SIMILAR METHOD TO PROTECT AND MAINTAIN CLEANLINESS DURING SHIPMENT AND STORAGE.
7. VENDOR SUGGESTED CHANGES TO TOLERANCES TO FACILITATE ASSEMBLY; SUBJECT TO LBNL APPROVAL
8. DIMENSIONS SHOWN IN THE INSPECTION OVAL ARE REFERENCED IN THE FABRICATION TRAVELER.
9. ALL COMPONENTS TO BE INSULATED PER MLI SPECIFICATION PROVIDED BY THE VENDOR, SUBJECT TO LBNL APPROVAL.

ITEM	PART NO.	REQD	DESCRIPTION	MATERIAL
34	-	1	4.5" CF NON-ROTATABLE, WELD FLANGE FOR 2.5 DIA PIPE	SS 304L
33	-	32	SCH, M6X1, 30 LG, VENTED, SILVER PLATED	SS 18-8
32	-	8	SCH, 1/2 UNC X 1.0 LG, SILVER PLATE	SS 18-8
31	-	32	LOCK WASHER, M6	SS
30	-	10	CHIMNEY THERMAL ANCHOR, MIN A/L=.09"	COPPER, OFHC, C101
29	251074	2	THERMAL SHIELD STUB	COPPER, OFHC, C101
28	251446	2	BASE RING	COPPER, OFHC C101
27	251594	1	THERMAL SHIELD ASSY, DFBXB	CDA101
26	-	1	DIAGNOSTIC PIPE, 1.0 PIPE	304L SS
25	-	1	CONFLAT, NON ROTATABLE, 2"	304L SS
24	-	1	VENT SLEEVE 3"PIPE	304L SS
23	25M865	10	WELD FLANGE, CHIMNEY TUBE	304L SS
22	25M864	1	VENT SLEEVE CAP	304L SS
21	25M855	2	DH SLEEVE CAP	304L SS
20	-	2	2.0" TUBE X 6.78 LG	304L SS
19	25M819	16	PLATE, 2 HOLE	304L SS
18	-	1	TUBE, 2.5 OD X .049 WALL	300 SERIES SS
17	25M817	1	BELLOWS, 2.5 BORE, HYSPAN FILE H-1339-2	300 SERIES SS
16	25M816	1	BELLOWS, 1.0 BORE	300 SERIES SS
15	25M816	1	BELLOWS, 1.0 BORE, HYSPAN FILE H-1339-1	300 SERIES SS
14	251334	4	M12 X 1.75 ROD, 9.04 LG	18-8 SS
13	251333	8	M12 X 1.75 ROD, 9.22 LG	18-8 SS
12	251332	4	M12 X 1.75 ROD, 10.75 LG	18-8 SS
11	251331	8	M12 X 1.75 ROD, 10.54 LG	18-8 SS
10	25M851	2	SHORT VERTICAL SUPPORT ASSEMBLY	-
9	25M850	2	LONG VERTICAL STRUT ROD ASSEMBLY	-
8	251634	1	DH VENT PIPE	-
7	251152	1	TOP PLATE WELDMENT IPI RIGHT	-
6	251161	1	CHECK VALVE ASSY	-
5	251574	1	LIQUID HELIUM TANK - 8 PORT RIGHT	
4	251327	4	HTS CHIMNEY ASSY TOP	
3	251177	1	4 1/2" PUMPING PORT, CRYOGENIC DIAGNOSTIC ASSY.	
2	251175	4	VAPOR COOLED LEAD CHIMNEY ASSY	
1	251174	4	HTS CHIMNEY ASSY LOWER	

THIRD ANGLE PROJECTION

REV	DWG	CHK	ZONE	DATE	CHANGES
A	JDR	DPO		10/7/02	INITIAL RELEASE

UNLESS OTHERWISE SPECIFIED
TOLERANCES: X.X ± 0.1 FRAC. ± 1/64; X.XX ± 0.03 Angles ± 1.00°; X.XXX ± 0.010 FINISH 125 µin
DO NOT SCALE PRINT
THREADS ARE CLASS 2
CHAMFER ENDS OF ALL SCREW THEADS 30°
CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS
BREAK EDGES .016 MAX. ON MACHINED WORK
REMOVE BURRS, WELD SPLATTER & LOOSE SCALE
IN ACCORDANCE WITH ASME Y14.5M & B46.1

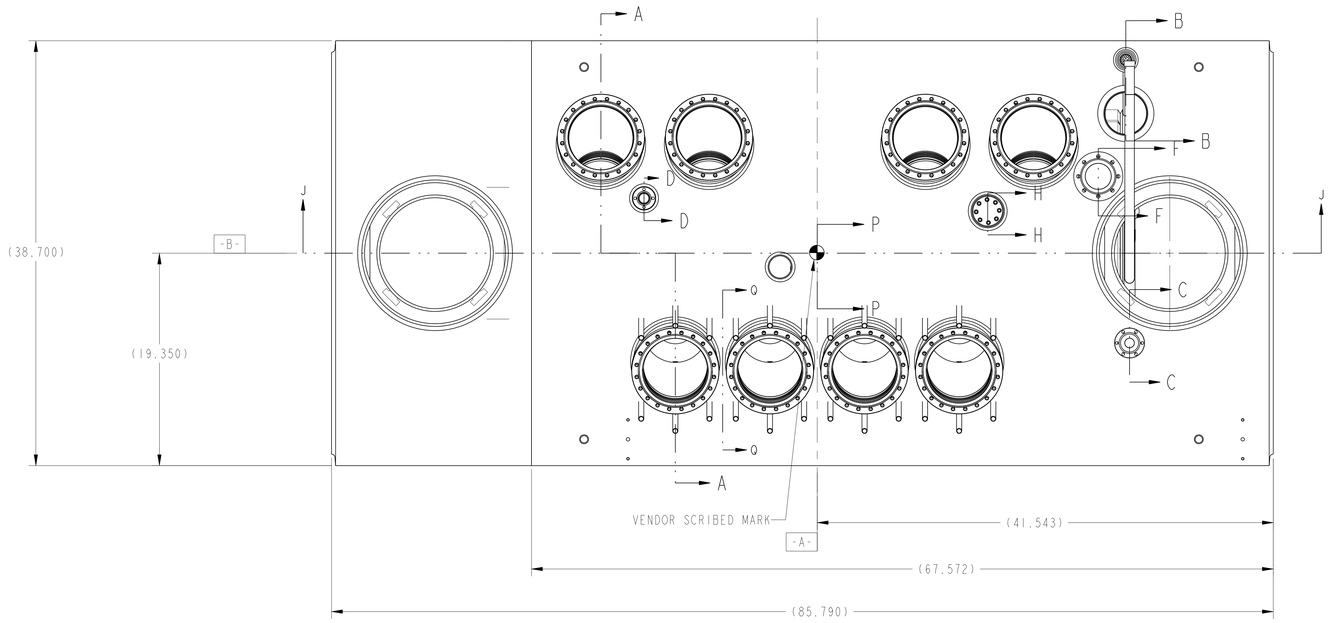
SHOP ORDERS
ACCT NO. | NO. REQD
REL TO
SURFACE TREATMT
HEAT METHOD TAG
PROJECT NUMBER N/A
PROJECT NAME N/A
DWG BY M. KNOLLS — DATE 29-Sep-02
CHK BY Jon Zbasnik — DATE 04-APR-02
APP BY Jon Zbasnik — DATE 04-APR-02
TSR NO.
ISSD DATE
RCVD DATE

ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY
UNIVERSITY OF CALIFORNIA - BERKELEY

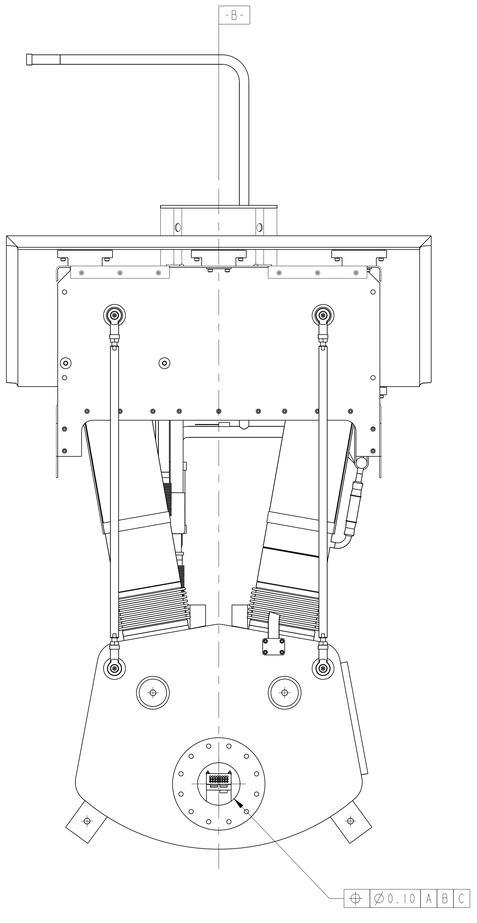
LHC IR FEEDBOX
MAJOR ASSEMBLY
TOP PLATE WELDMENT SUBASSY IPI RIGHT

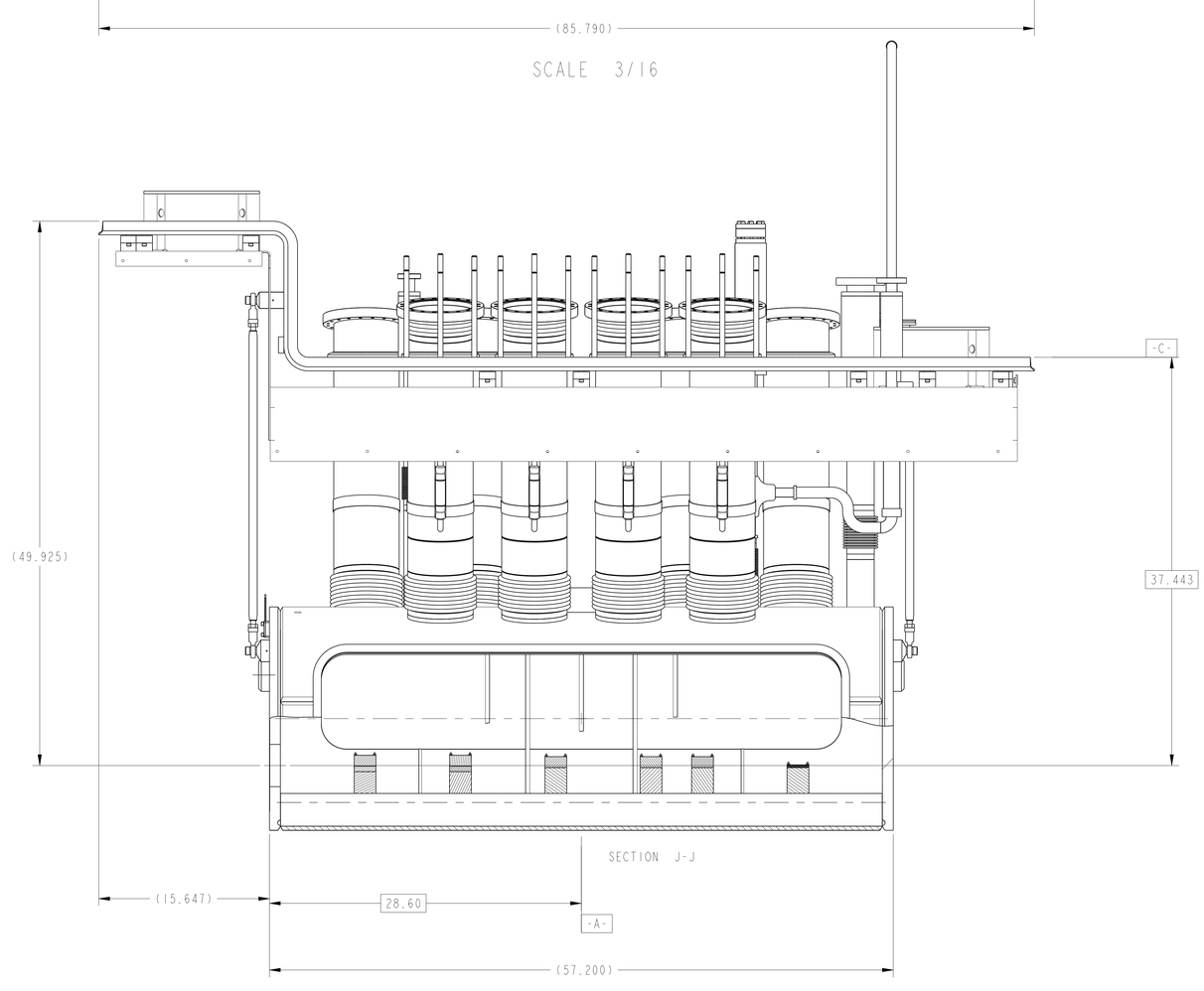
MICROFILMED: PATENT CLEAR:
DWG. TYPE: ASSEM | SHOWN ON: 24C350 | DESIGN ACCT. NO.: Z5LCE2 | CATEGORY CODE: LH2001
SCALE: 1/4 | DO NOT SCALE PRINTS
SHEET 1 OF 4
DWG NO. 2511546 | SIZE A | REV.

DWG NO. 2511546 REV A SHT 1 OF 4

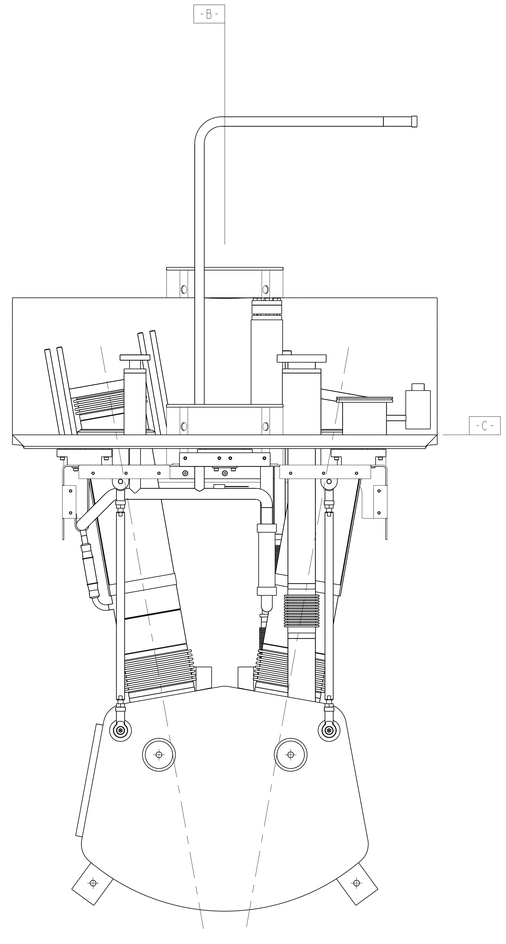


SCALE 3/16





SECTION J-J



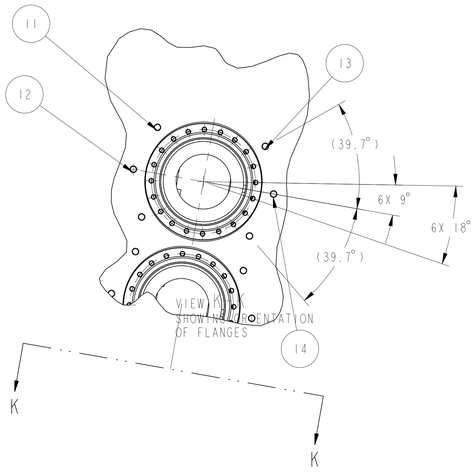
THIRD ANGLE PROJECTION

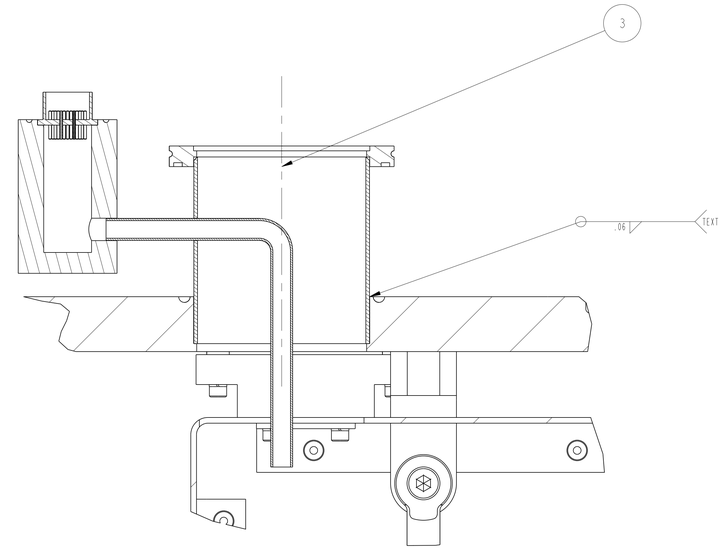
ERNEST ORLANDO LAWRENCE
BERKELEY NATIONAL LABORATORY
UNIVERSITY OF CALIFORNIA - BERKELEY

LHC IR FEEDBOX
MAJOR ASSEMBLY
TOP PLATE WELDMENT SUBASSY IPI RIGHT

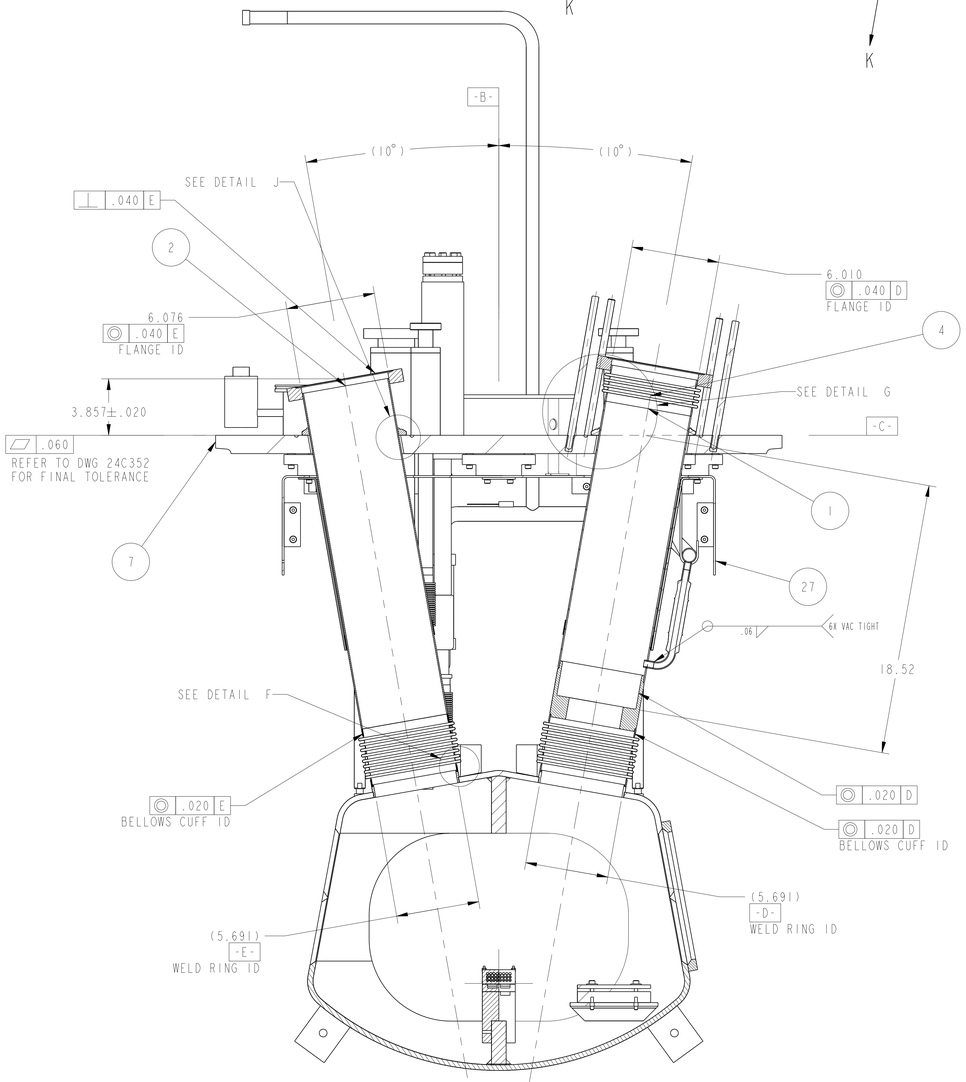
MICROFILMED:	DWG. TYPE	SHOWN ON	SCALE: 1/4	DO NOT SCALE PRINTS
	ASSEM	24C350	SHEET 2 OF 4	
PATENT CLEAR:	DESIGN ACCT. NO.	CATEGORY CODE	DWG. NO.	SIZE / REV.
	Z5LCE2	LH2001	2511546	A / A

DWG. NO. 2511546 SHEET 2 OF 4

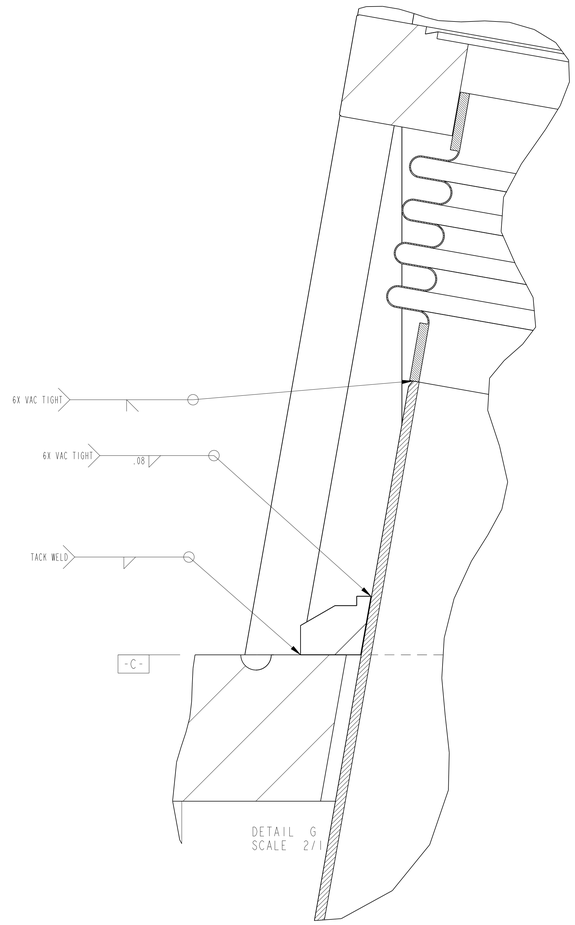




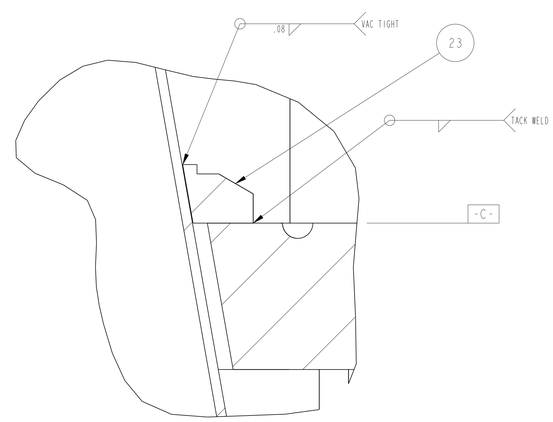
SECTION B-B
SCALE 3/4



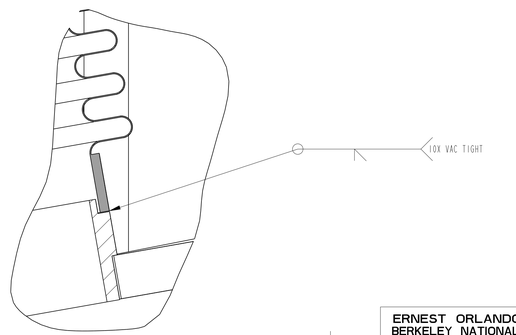
SECTION A-A
SCALE 1/4



DETAIL G
SCALE 2/1



DETAIL J
SCALE 2/1



10 X DETAIL F
SCALE 2/1

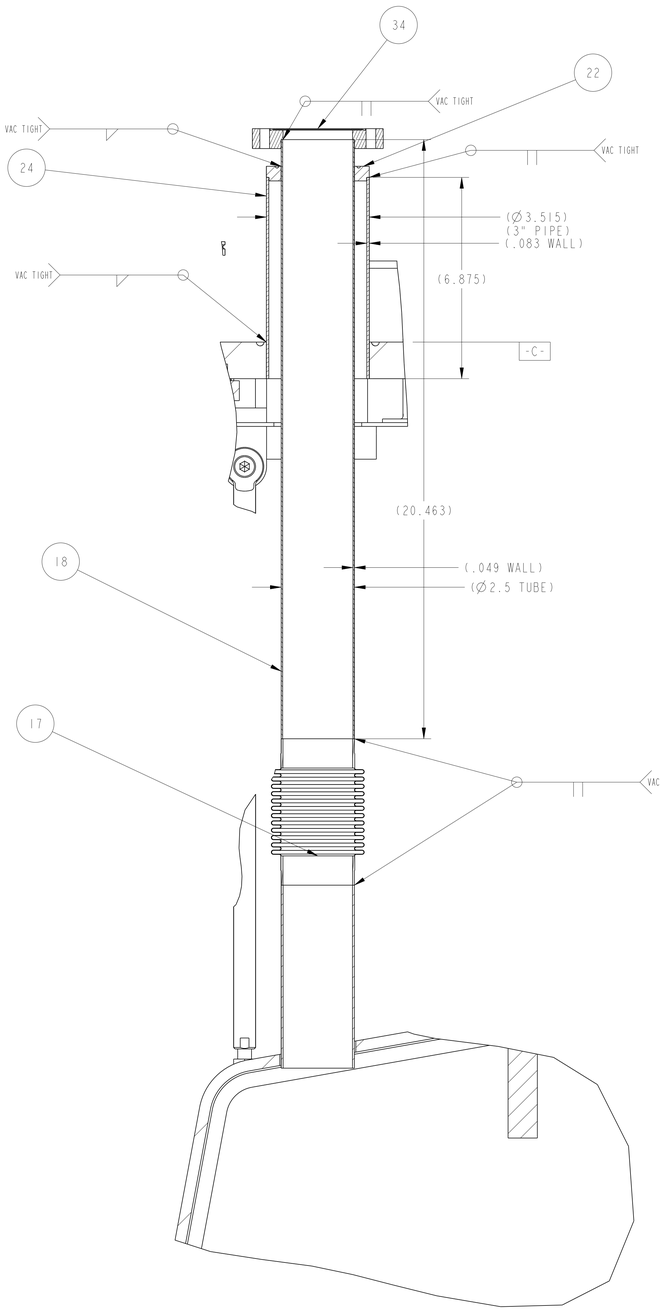
THIRD ANGLE PROJECTION

DWG. NO. 2511546 SHEET REV. 3 A

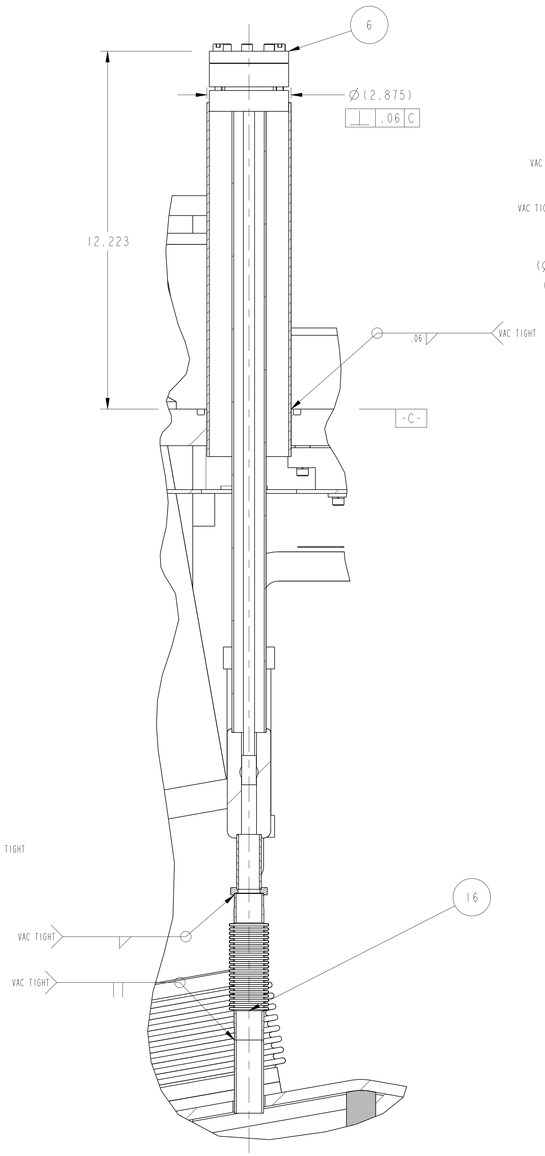
ERNEST ORLANDO LAWRENCE
BERKELEY NATIONAL LABORATORY
UNIVERSITY OF CALIFORNIA - BERKELEY

LHC IR FEEDBOX
MAJOR ASSEMBLY
TOP PLATE WELDMENT SUBASSY IPI RIGHT

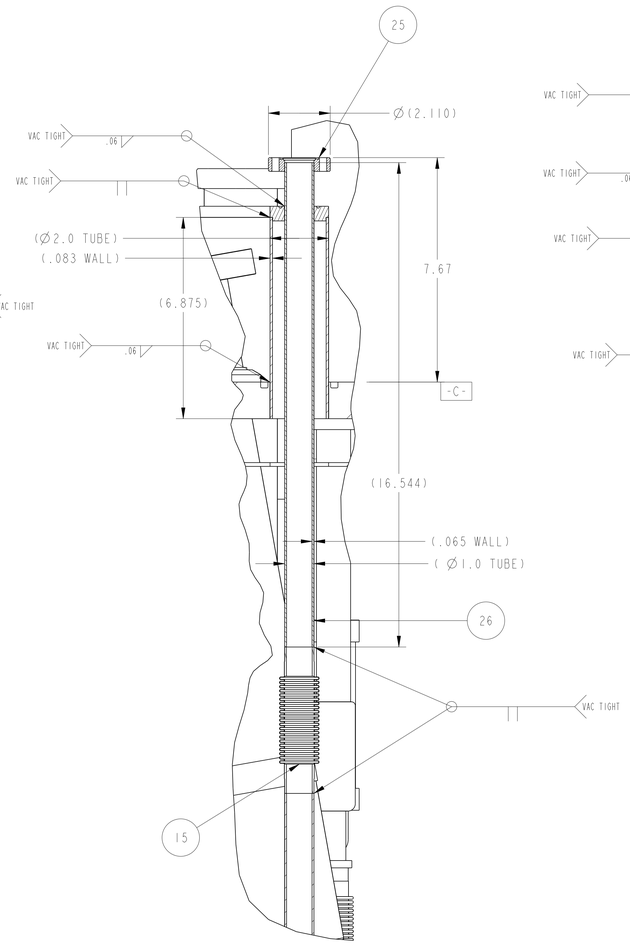
MICROFILMED:	DWG. TYPE: ASSEM	SHOWN ON: 24C350	SCALE: 1/4	DO NOT SCALE PRINTS
			SHEET 3 OF 4	
PATENT CLEAR:	DESIGN ACCT. NO.: Z5LCE2	CATEGORY CODE: LH2001	DWG. NO.: 2511546	SIZE: A / REV.: A



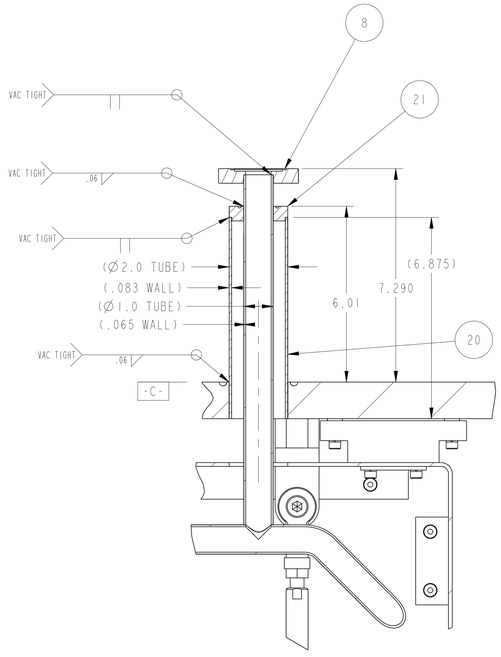
SECTION F-F
SCALE 1/2



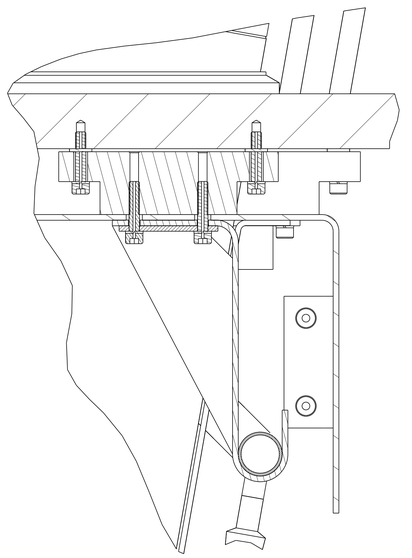
SECTION H-H
SCALE 1/2



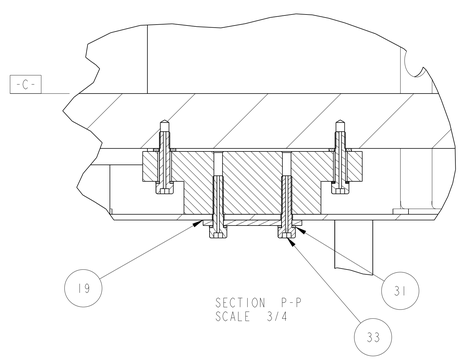
SECTION D-D
SCALE 1/2



SECTION C-C
SCALE 1/2



SECTION Q-Q
SCALE 3/4



SECTION P-P
SCALE 3/4

THIRD ANGLE PROJECTION

ERNEST ORLANDO LAWRENCE
BERKELEY NATIONAL LABORATORY
UNIVERSITY OF CALIFORNIA - BERKELEY

LHC IR FEEDBOX
MAJOR ASSEMBLY
TOP PLATE WELDMENT SUBASSY IPI RIGHT

MICROFILMED:	DWG. TYPE: ASSEM	SHOWN ON: 24C350	SCALE: 1/4 DO NOT SCALE PRINTS
			SHEET 4 OF 4
PATENT CLEAR:	DESIGN ACCT. NO.: Z5LCE2	CATEGORY CODE: LH2001	DWG. NO.: 2511546 SIZE: A REV.

DWG. NO. 2511546 SHEET 4 OF 4 REV. A