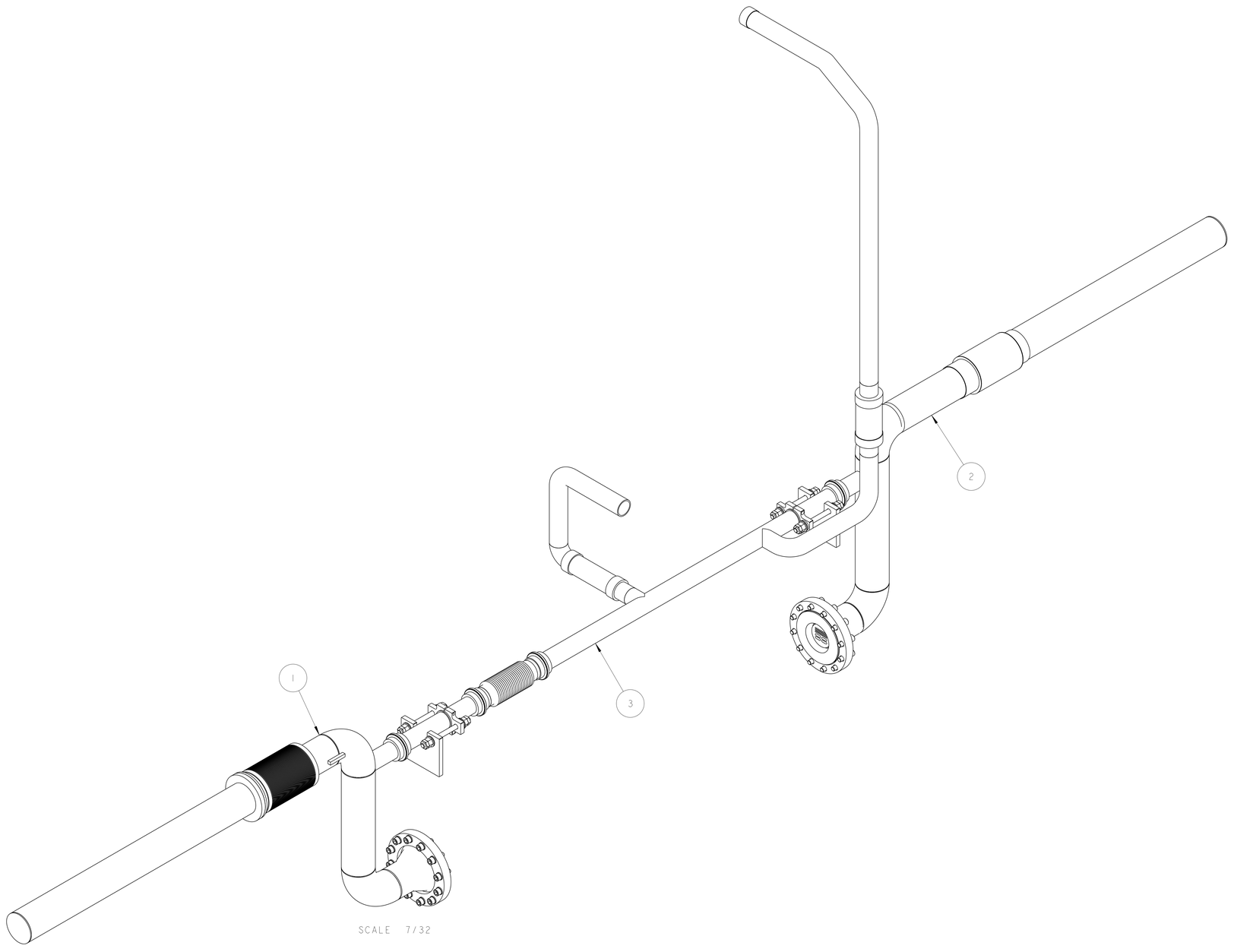


SCALE 7/32

NOTES: (UNLESS OTHERWISE SPECIFIED)

1. THIS IS A CRYOGENIC VACUUM COMPONENT.
2. WELDING PROCEDURE: PER VENDOR SPECIFICATION WITH LBNL APPROVAL.
3. CLEANING PROCEDURE : PER VENDOR SPECIFICATION WITH LBNL APPROVAL.
4. PACKAGING AND STORAGE PROCEDURE OF THE COMPONENTS: PER VENDOR SPECIFICATION WITH LBNL APPROVAL.
5. DIMENSIONS AND TOLERANCING PER ANSI Y14.5M-1982. UNITS ARE IN INCHES [mm] UNLESS OTHERWISE SPECIFIED.
6. USE OF SULFUR OR SILICONE BEARING OILS, LUBRICANTS, OR COOLANTS ARE STRICTLY PROHIBITED.
7. USE OF RESIN OR RUBBER BONDED ABRASIVES UNDER POWER IS STRICTLY PROHIBITED. USE VITREOUS BONDED ABRASIVES ONLY.
8. VENDOR SUGGESTED CHANGES TO WELD PREPS; SUBJECT TO LBNL APPROVAL.
9. FITTINGS MAY BE USED IN PLACE OF BENDS; SUBJECT TO LBNL APPROVAL.
10. VENDOR SUGGESTED CHANGES TO TOLERANCES TO FACILITATE FABRICATION OR ASSEMBLY; SUBECT TO LBNL APPROVAL.
11. REMOVE ALL THE BURRS AND REAM THE ENDS FOR CIRCULARITY AND CLEAN ENDS.
12. TUBE END SURFACE MUST BE PERPENDICULAR TO THE TUBE AXIS WITHIN +/-.010.
13. PERFORM ACCEPTANCE TESTS PER SECTION 3.2 OF LBNL SPECIFICATION M856.
14. A MARK DESIGNATING THE INSTALLED LENGTH WILL BE UTILIZED DURING FINAL INSTALLATION OF THE DEEDBOX ASSEMBLY. MARK, SCRIBE OR ETCH THIS LOCATION IN A PERMANENT MANNER, SUBJECT TO LBNL APPROVAL, TO AN ACCURACY OF 0.063".
15. PROVIDE A MINIMUM LENGTH OF 4.0" OF STRAIGHT, SMOOTH PIPE ON THE INDICATED SIDE OF THE INSTALLED LENGTH MARK FOR PIPE WELDING DURING FINAL INSTALLATION OF THE FEEDBOX ASSEMBLY.
16. PIPE MUST BE STRAIGHT AND SMOOTH (NO BUMPS) FOR 0.5" ON EITHER SIDE OF THE CENTER-PLANE OF THE SUPPORT.
17. CAP BOTH ENDS OF PIPE AFTER ACCEPTANCE TESTS PER SECTION 3.2 OF LBNL SPECIFICATION M856.

THIRD ANGLE PROJECTION

ITEM	PART NO	REQD	DESCRIPTION	MATERIAL
4	-	2	WELD RING, ID 75mm, FNAL SUPPLIED	SS 304L
3	25M916	1	PIPE WELDMENT, LD QRL / LD CROSSOVER	-
2	25M859	1	PIPE WELDMENT, MBX1	-
1	25M857	1	PIPE WELDMENT, MQX1	-

REV	DWG	CHK	ZONE	DATE	CHANGES
A	ARH	SPV		10-25-02	INITIAL RELEASE

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
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 THREADS 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 & BAL.1

SHOP ORDERS
ACCT NO. | NO. REQD
SER NO. -
DATE - ISSD
DATE - REQD
SURFACE TREATMT -
IDENT METHOD TAG
PROJECT NUMBER N/A
PROJECT NAME N/A
DWG BY KNOLLS DATE 10-Apr-02
CHK BY Jon Zbasnik/S.Virostek DATE 22-Oct-02
APP BY Jon Zbasnik/D.OSHATZ DATE 22-Oct-02

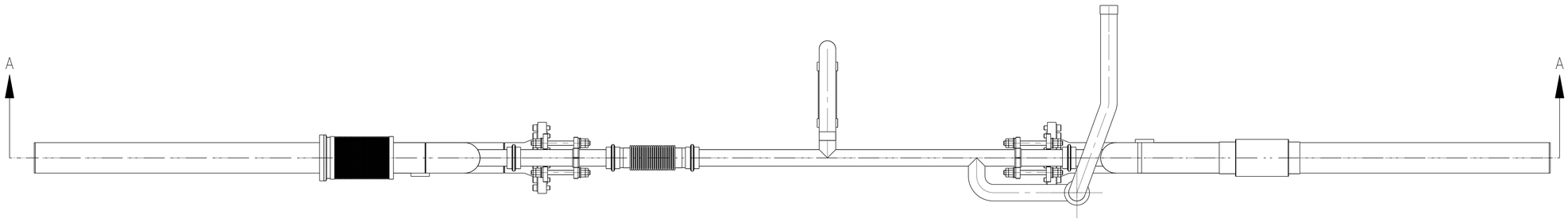
ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY
UNIVERSITY OF CALIFORNIA - BERKELEY

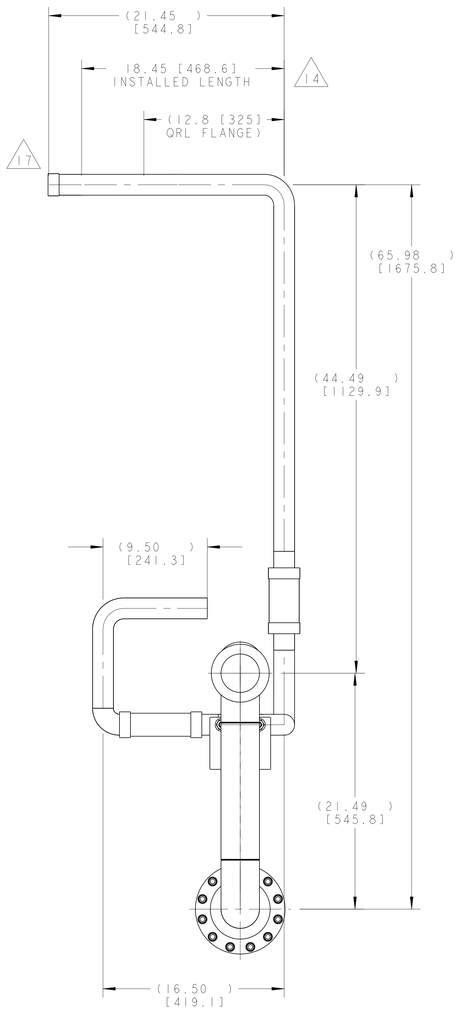
LHC IR FEEDBOX
CRYOGENICS
PIPE WELDMENT, LD3 AND BUS DUCT

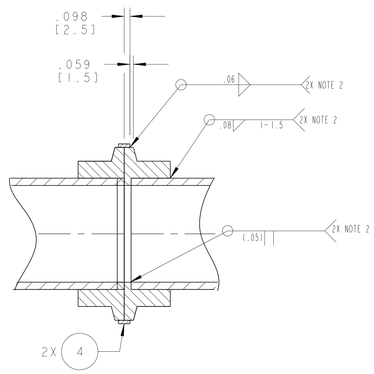
MICROFILMED: | PATENT CLEAR:
DWG. TYPE ASSEM | DESIGN ACCT. NO. Z5LCE2
SHOWN ON - | CATEGORY CODE LH2003
SCALE: 3/16 | DO NOT SCALE PRINTS
SHEET 1 OF 2
DWG. NO. 2512476 | SIZE A | REV A

DWG NO 2512476 REV A1

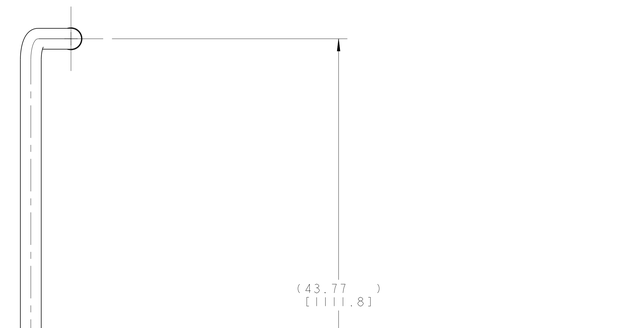
NAME ARHARRIS OBJECT:251247.I DATE:26-Nov-02 06:32:01

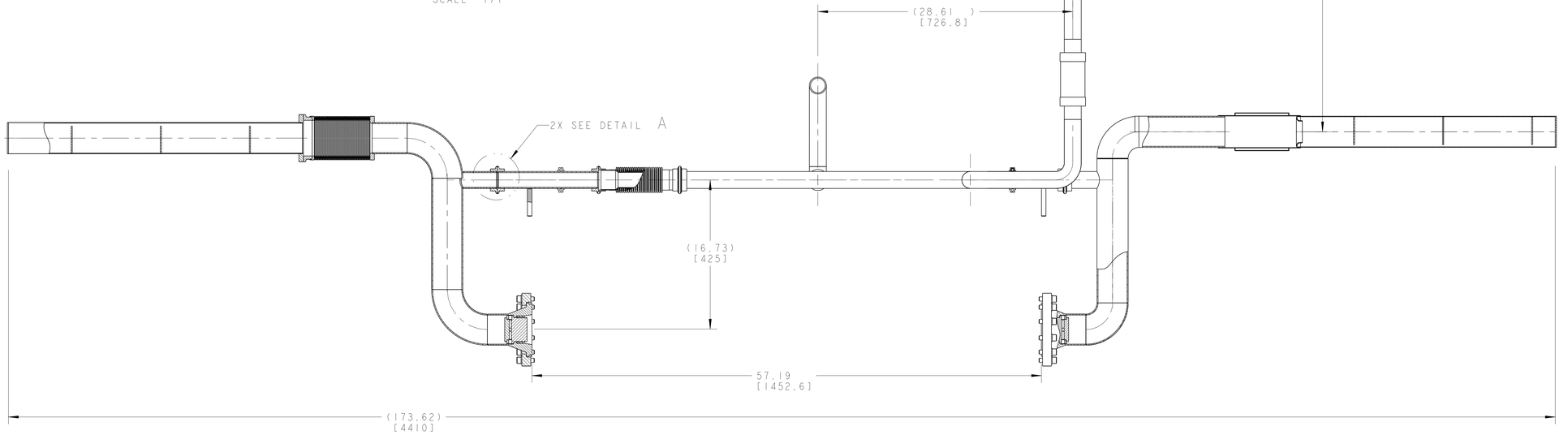






DETAIL A
SCALE 1/1





SECTION A-A

ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY UNIVERSITY OF CALIFORNIA - BERKELEY				
LHC IR FEEDBOX CRYOGENICS PIPE WELDMENT, LD3 AND BUS DUCT				
MICROFILMED:	DWG. TYPE: ASSEM.	SHOWN ON: -	SCALE: 3/16	DO NOT SCALE PRINTS
			SHEET 2 OF 2	
PATENT CLEAR:	DESIGN ACCT. NO.: 25LCE2	CATEGORY CODE: LH2003	DWG. NO.: 2512476	SIZE/REV.: A

DWG NO 2512476 REV A SHEET 2 OF 2

NAME:ARHARRIS OBJECT:2512471_2 DATE:26-Nov-02 06:32:04