

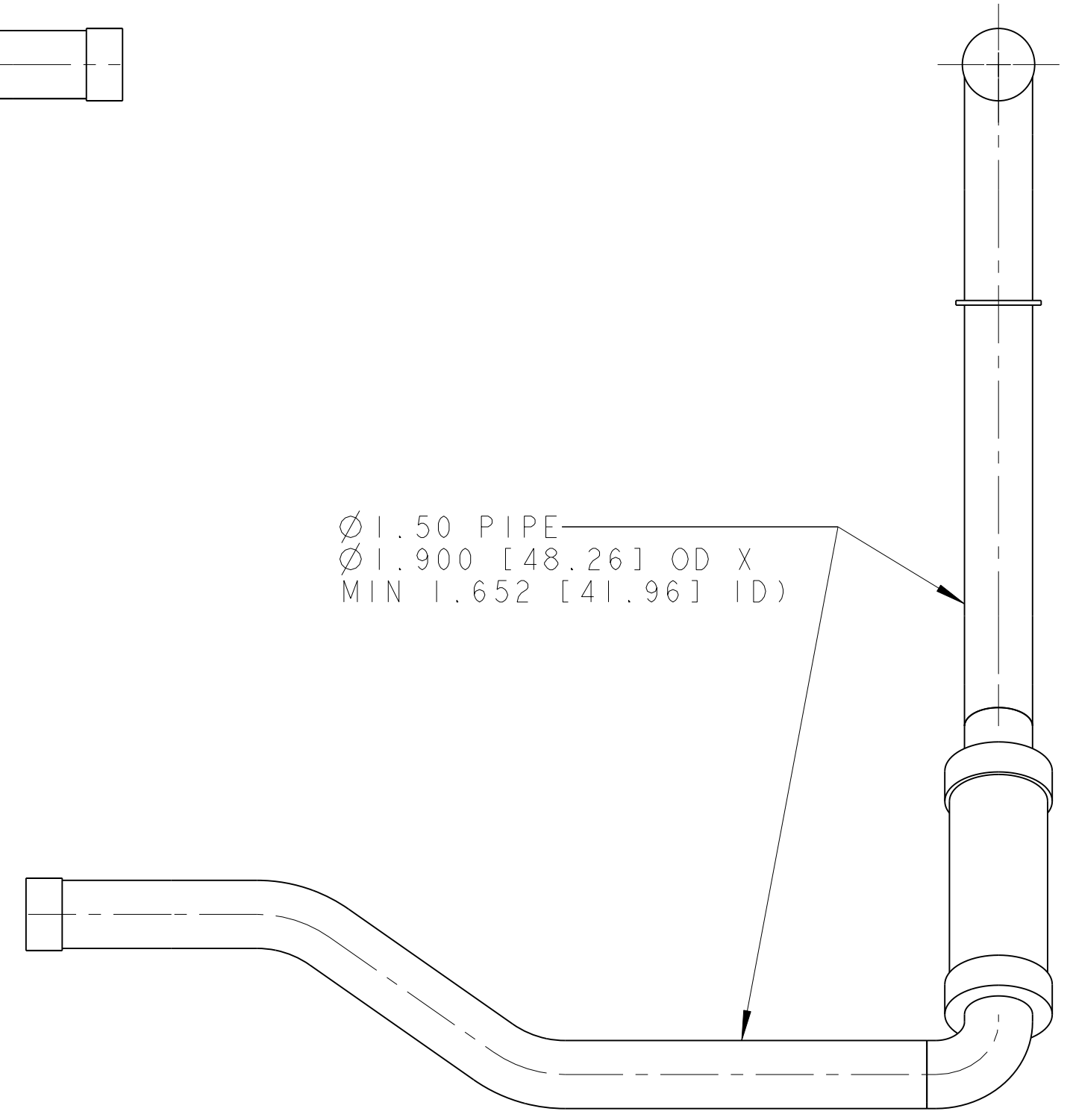
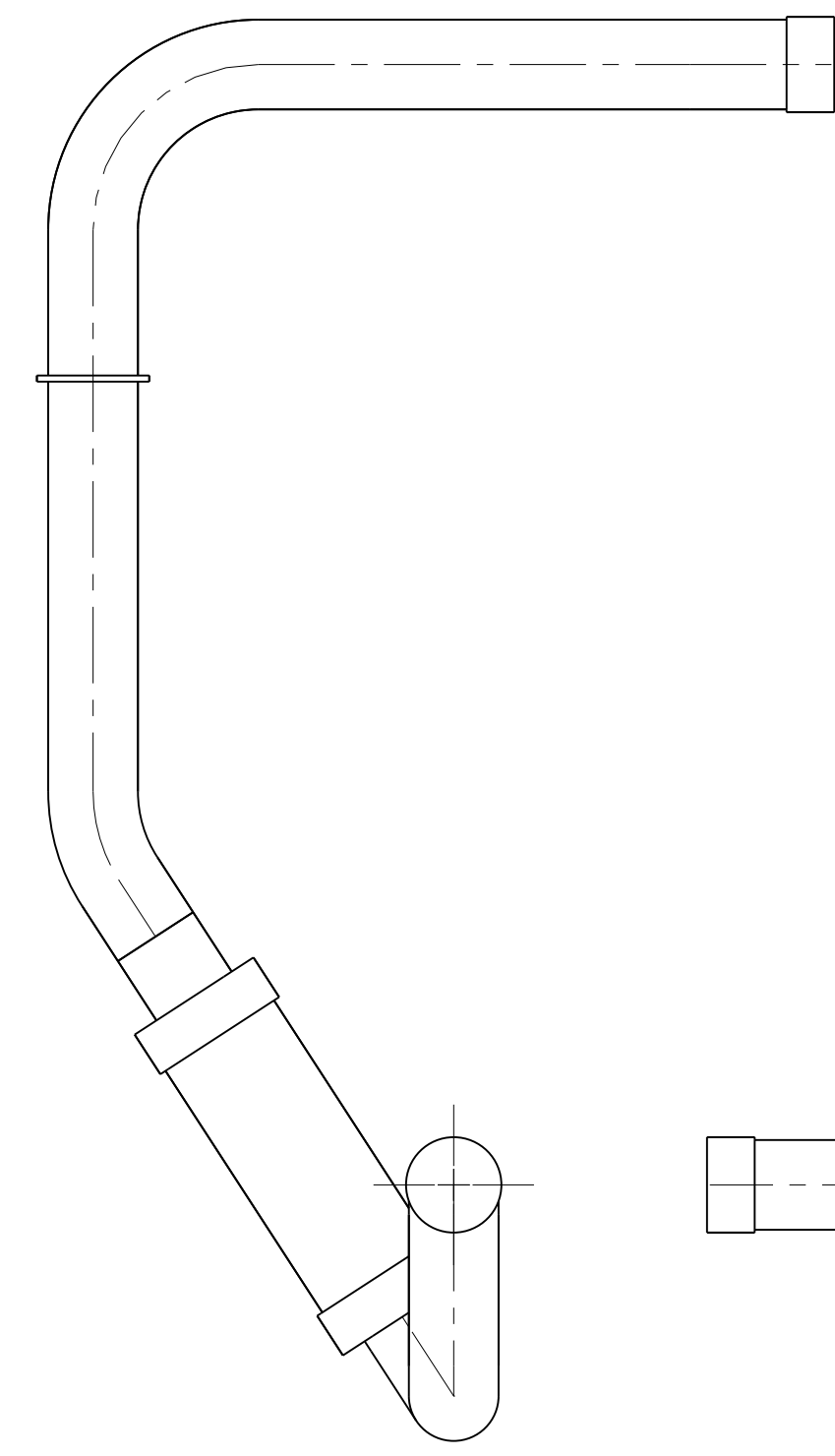
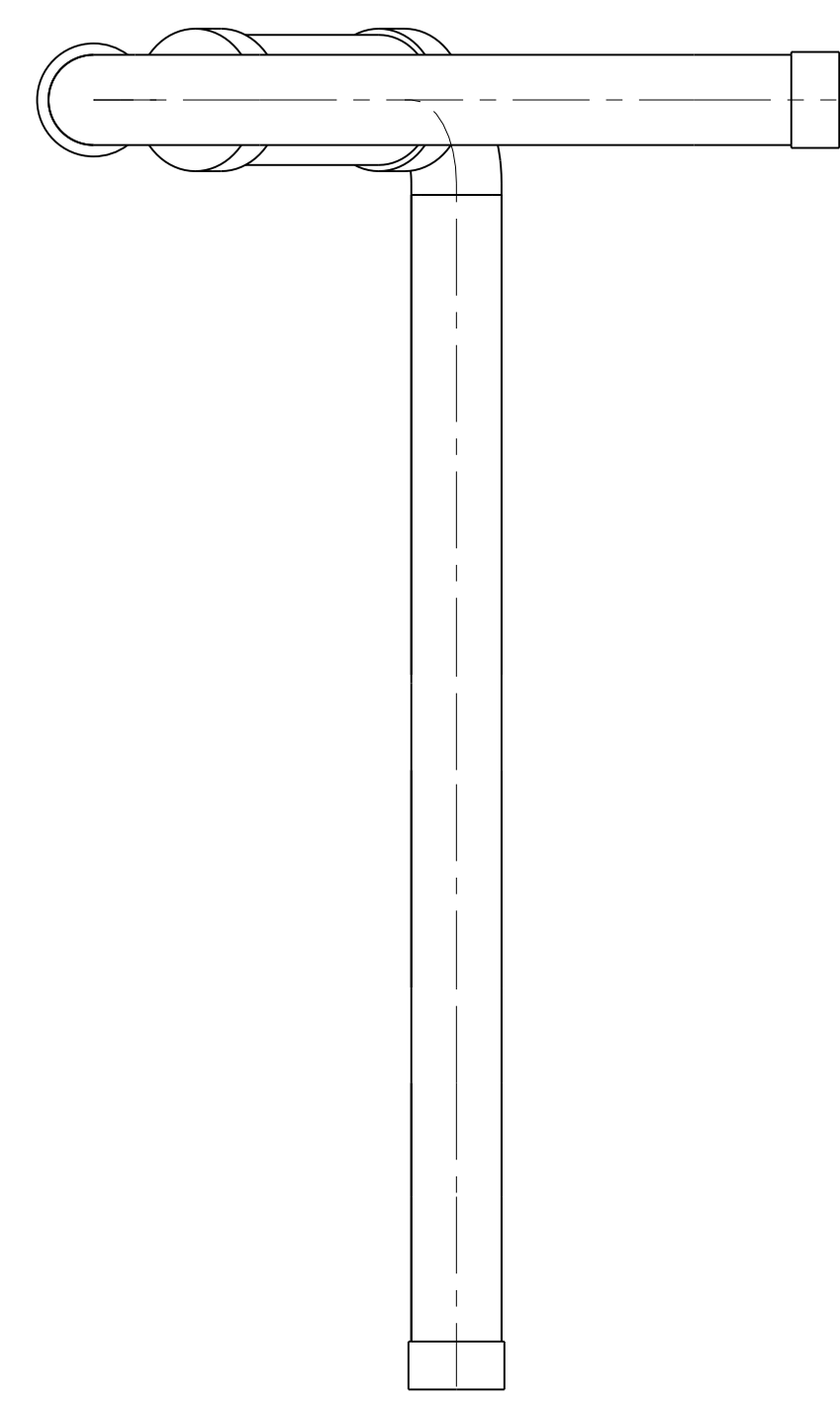
NAME: ARHARRIS OBJECT: 251505_1 DATE: 26-Nov-02 07:39:09

DWG. NO. 2515054 SIZE REV. SH. A 1

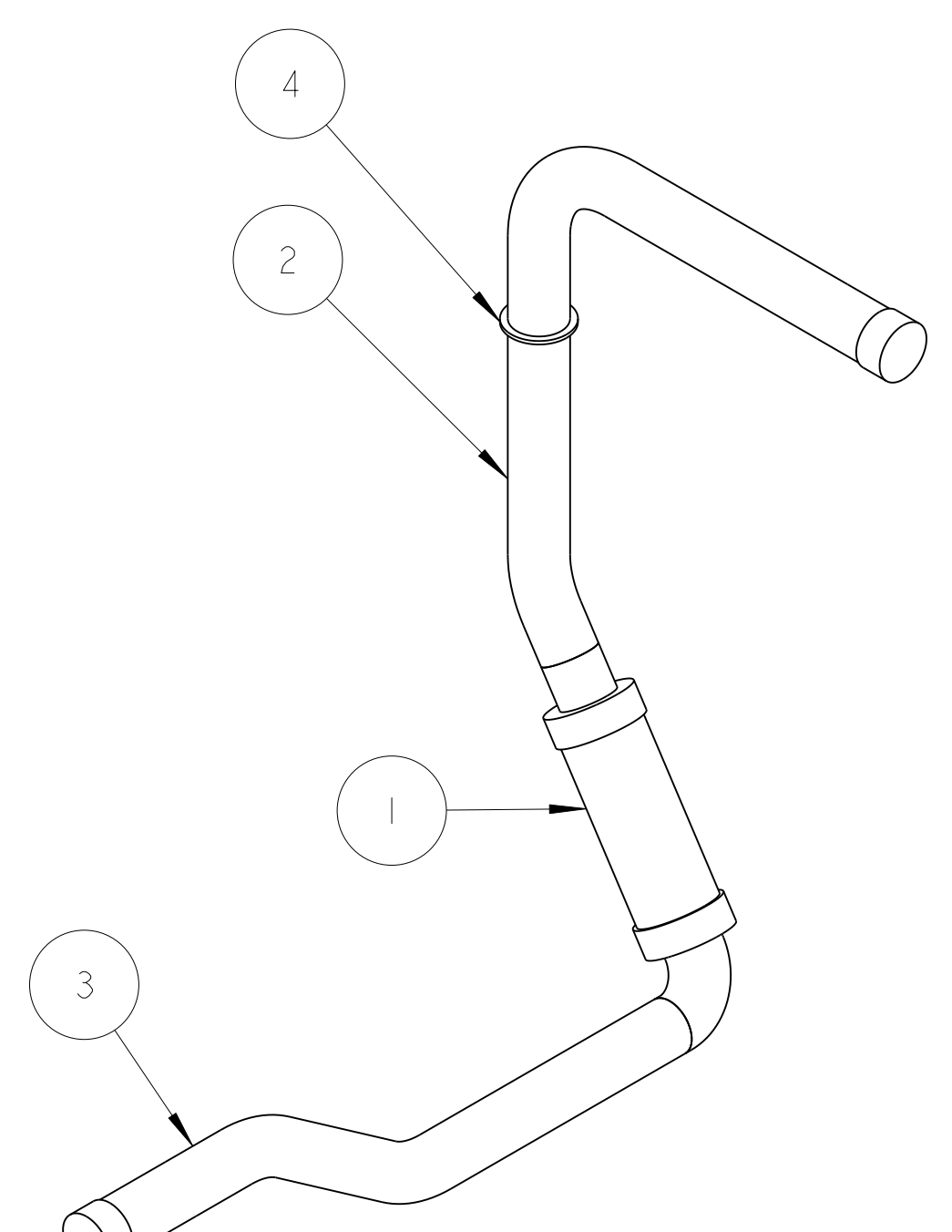
ITEM	PART NO	RECD	DESCRIPTION	MATERIAL
4	-	1	SUPPORT FLANGE	SS 304L
3	-	1	PIPE, PER ASTM A312	SS 304L
2	-	1	PIPE, PER ASTM A312	SS 304L
1	-	1	BRAIDED FLEX HOSE, 2" ID X 6.1 LL	SS 300 SERIES

NOTES: (UNLESS OTHERWISE SPECIFIED)

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

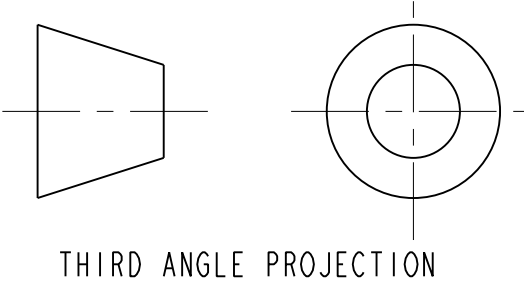


Ø 1.50 PIPE
Ø 1.900 [48.26] OD X
MIN 1.652 [41.96] ID



SCALE 3/16

*** FOR ADDITIONAL TUBE DIMENSIONS, SEE SHEET 2

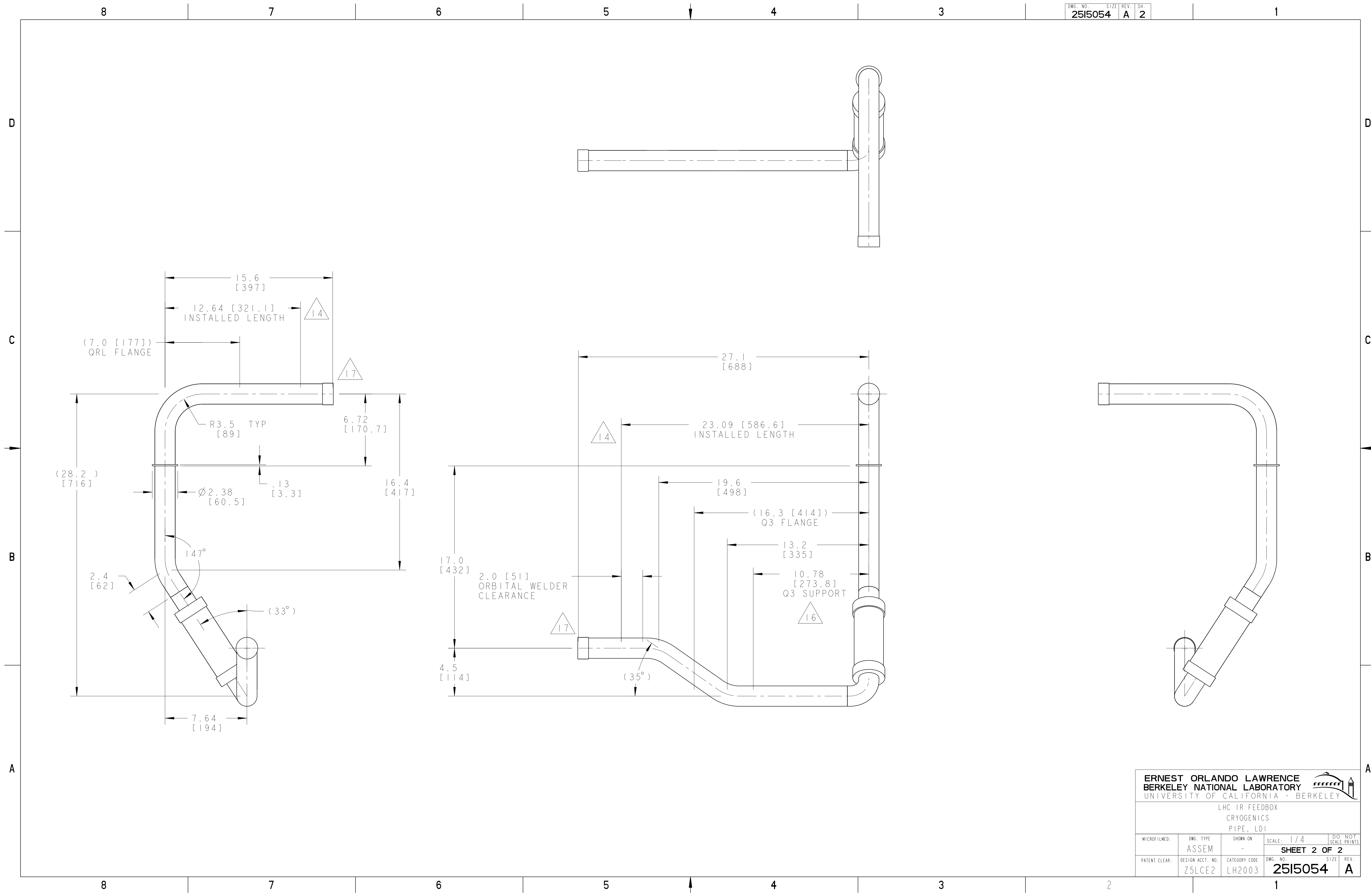


REV	DWG	CHK	ZONE	DATE	CHANGES
A	ARH	SPV		11-06-02	INITIAL RELEASE

UNLESS OTHERWISE SPECIFIED		SHOP ORDERS		SER
TOLERANCES	X.X ± 0.1	FRAC. ± 1/64	ACCT NO.	NO.
	X.XX ± 0.03	Angles ± 1.00°	DEL TO	DATE
	X.XXX ± 0.010	FINISH 125 \sqrt{Ra}	SURFACE TREATMT	RECD
DO NOT SCALE PRINT		THREADS ARE CLASS 2	TIDENT METHOD	TAG
CHAMFER ENDS OF ALL SCREW THREADS 30°		CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS	PROJECT NUMBER	N/A
BREAK EDGES .016 MAX. ON MACHINED WORK		REMOVE BURRS, WELD SPLATTER & LOOSE SCALE	PROJECT NAME	N/A
IN ACCORDANCE WITH ASME Y14.5M & B46.1		DWG BY R LA MANTIA	DATE	12-Dec-01
		CHK BY Jon Zbosnik/S.Virostek	DATE	03-Oct-02
		APR BY Jon Zbosnik/S.Virostek	DATE	03-Oct-02

ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY			
UNIVERSITY OF CALIFORNIA - BERKELEY			
LHC IR FEEDBOX CRYOGENICS PIPE, LDI			
MICROFILMED:	DWG. TYPE	SHOWN ON	SCALE: 1/4
	ASSEM	-	DO NOT SCALE PRINTS
PATENT CLEAR:	DESIGN ACCT. NO.	CATEGORY CODE	SHEET 1 OF 2
	Z5LCE2	LH2003	SIZE REV. A
DWG. NO.	2515054		

NAME: ARHARRIS OBJECT: 251505-2 DATE: 26-Nov-02 07:39:10



ERNEST ORLANDO LAWRENCE
BERKELEY NATIONAL LABORATORY
 UNIVERSITY OF CALIFORNIA - BERKELEY

LHC IR FEEDBOX
 CRYOGENICS
 PIPE, LDI

MICROFILMED:	DWG. TYPE: ASSEM	SHOWN ON: -	SCALE: 1/4	DO NOT SCALE PRINTS
PATENT CLEAR:	DESIGN ACCT. NO. Z5LCE2	CATEGORY CODE LH2003	SHEET 2 OF 2	
			DWG. NO. 2515054	SIZE REV. A