

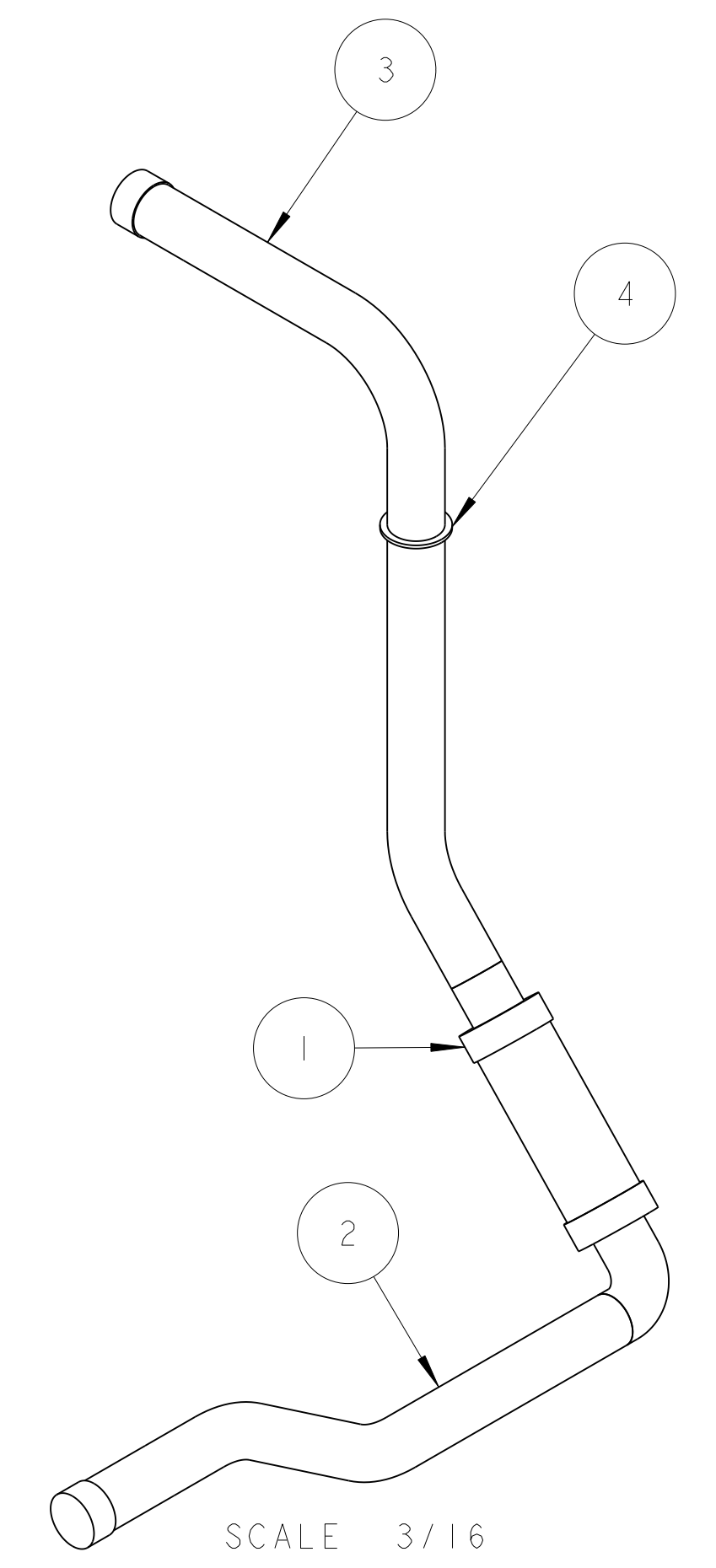
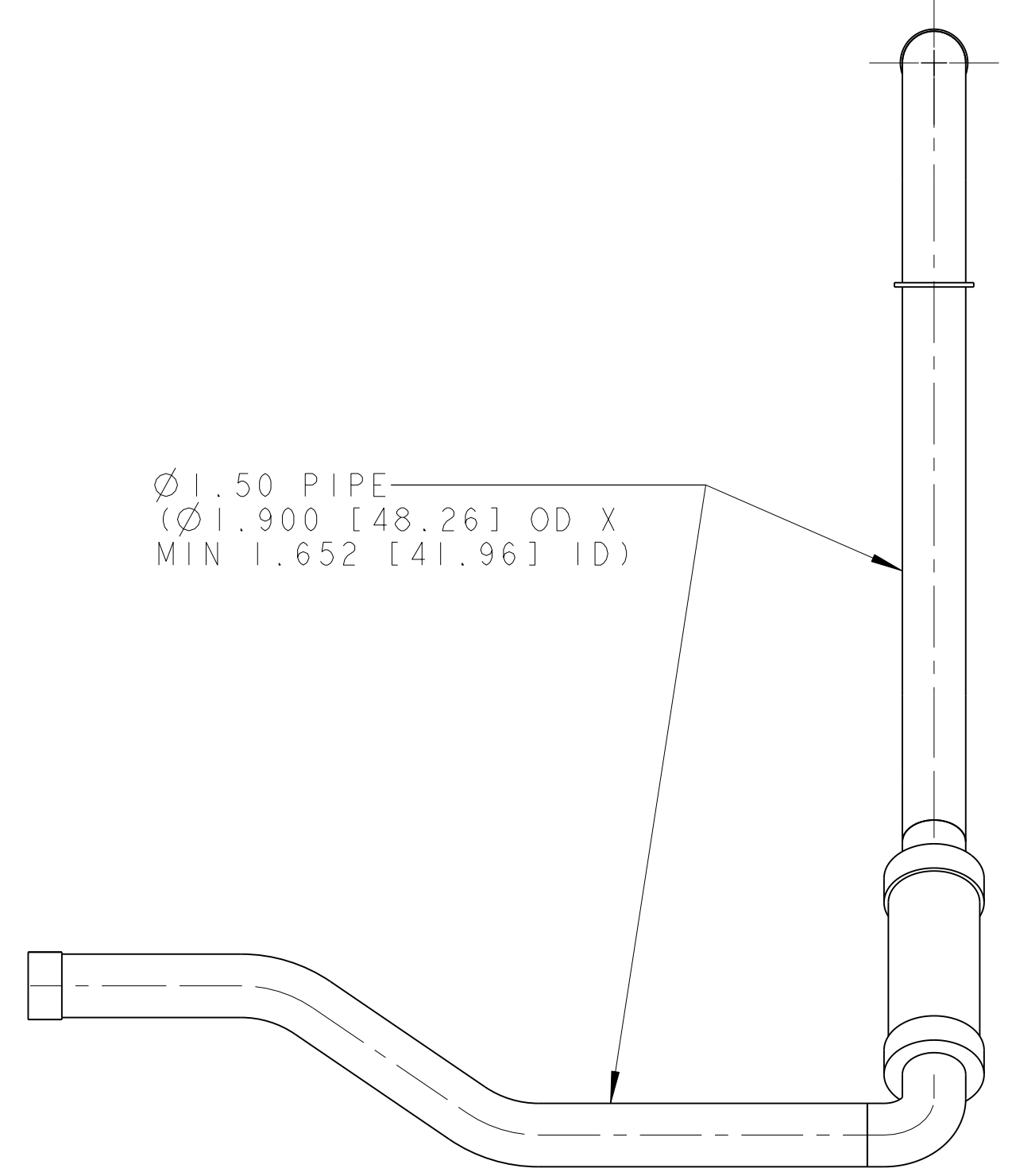
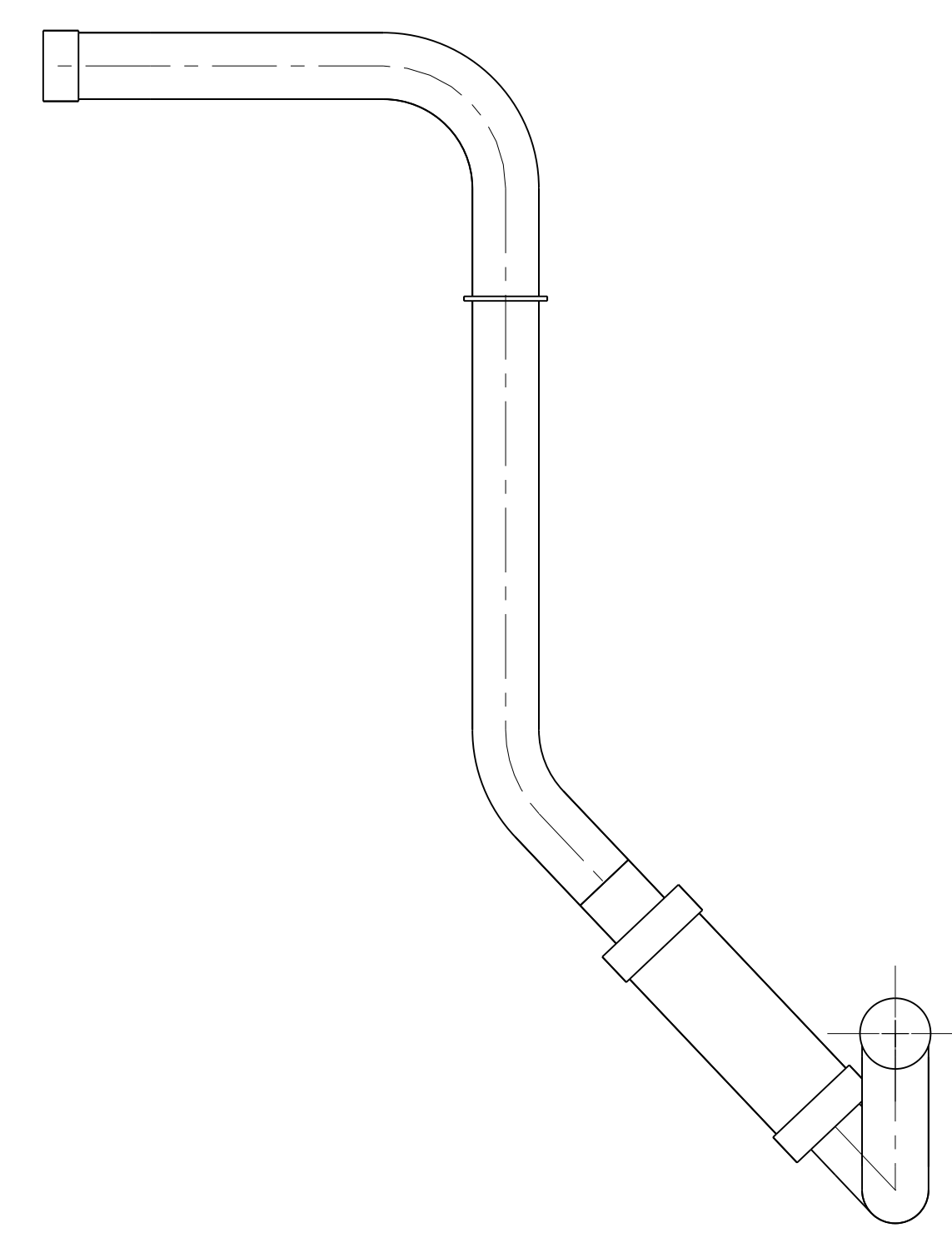
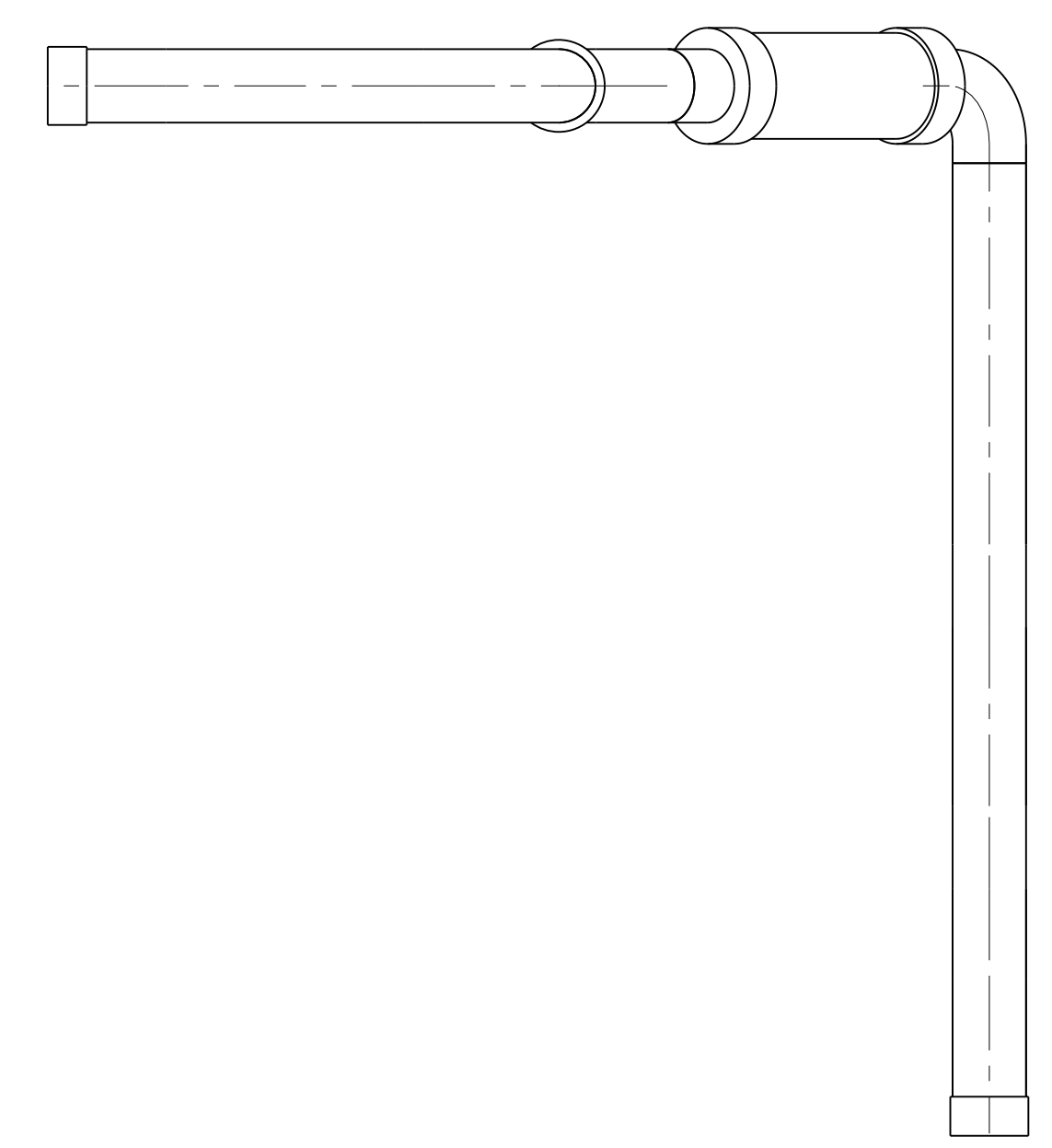
NAME: ARHARRIS OBJECT: 251246_1 DATE: 25-Nov-02 16:47:10

DWG. NO. 2512464 SIZE REV. SH. A 1

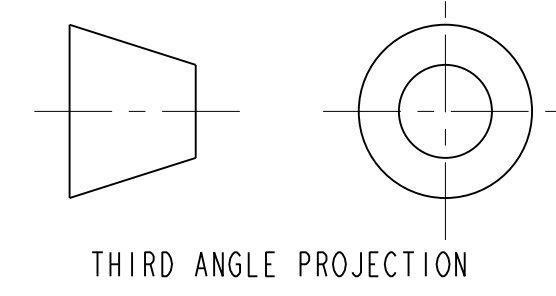
ITEM	PART NO	RECD	DESCRIPTION	MATERIAL
4	-	1	SUPPORT FLANGE	SS 304L
3	-	1	PIPE, PER ASTM A312	SS 304L
2	-	1	PIPE, PER ASTM A312	SS 304L
1	-	1	BRAIDED FLEX HOSE, 2" ID X 6.1 L	SS 300 SERIES

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.



*** FOR ADDITIONAL TUBE DIMENSIONS. SEE SHEET 2

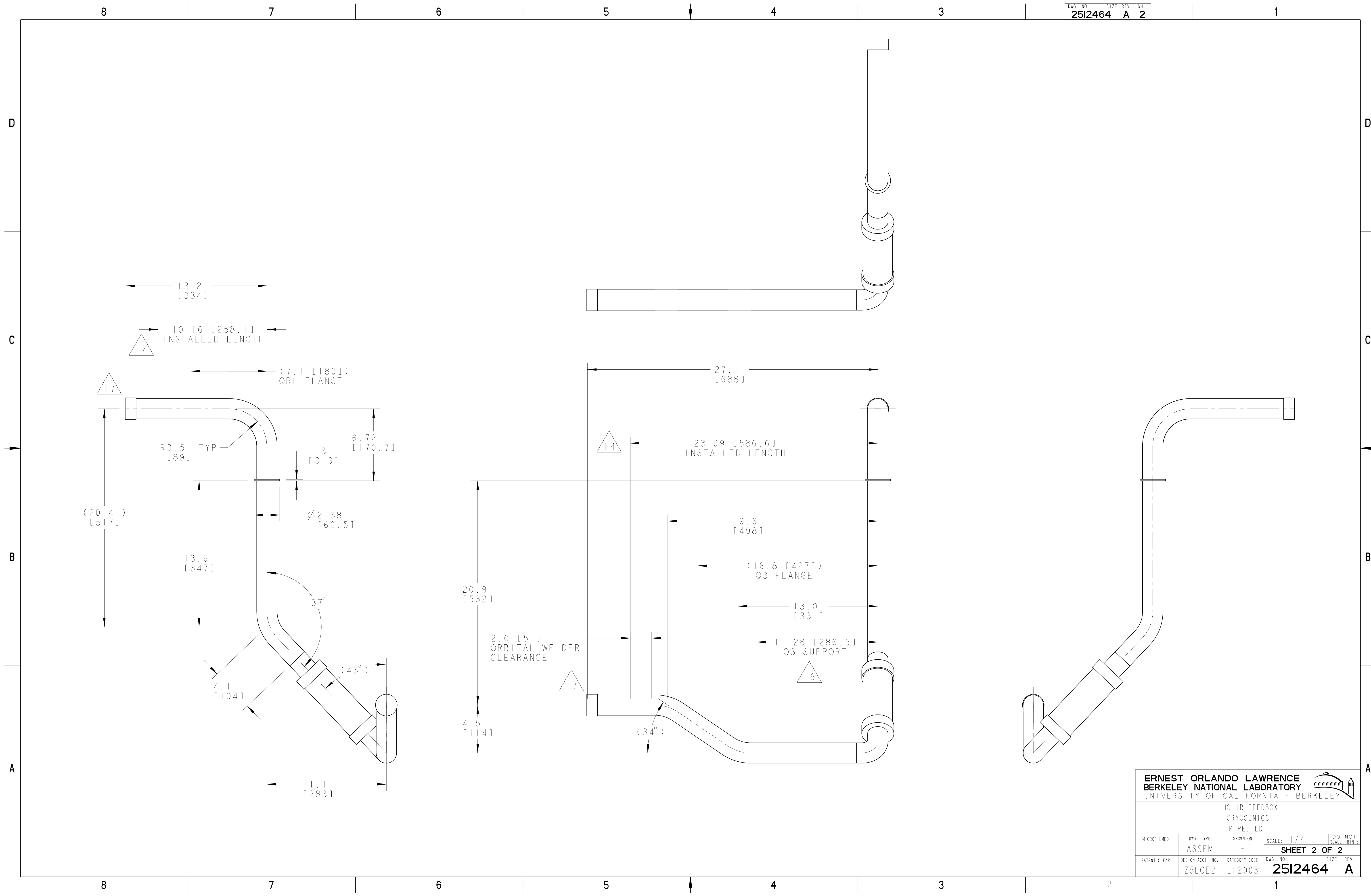


REV	DWG	CHK	ZONE	DATE	CHANGES
A	ARH	SPV		11-06-02	INITIAL RELEASE

UNLESS OTHERWISE SPECIFIED		SHOP ORDERS		SER
TOLERANCES	X.X ± 0.1	ACCT NO.	NO.	NO.
	X.XX ± 0.03	DEL	NO.	DATE
	X.XXX ± 0.010	FINISH	125	DATE
	ANGLES ± 1.00°	SURFACE TREATMT		
	FINISH 125	TREATMT		
	DO NOT SCALE PRINT	TREATMT		
	THREADS ARE CLASS 2	TREATMT		
	CHAMFER ENDS OF ALL SCREW THREADS 30°	TREATMT		
	CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS	TREATMT		
	BREAK EDGES .016 MAX. ON MACHINED WORK	TREATMT		
	REMOVE BURRS, WELD SPLATTER & LOOSE SCALE	TREATMT		
	IN ACCORDANCE WITH ASME Y14.5M & B46.1	TREATMT		

ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY			
UNIVERSITY OF CALIFORNIA - BERKELEY			
LHC IR FEEDBOX CRYOGENICS PIPE, LDI			
MICROFILMED:	DWG. TYPE	SHOWN ON	SCALE: 7/32
	ASSEM		DO NOT SCALE PRINTS
PATENT CLEAR:	DESIGN ACCT. NO.	CATEGORY CODE	SHEET 1 OF 2
	Z5LCE2	LH2003	REV. A
DWG. NO.	2512464	SIZE	A

NAME: ARHARRIS OBJECT: 251246_2 DATE: 25-Nov-02 16:47:11



ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY UNIVERSITY OF CALIFORNIA - BERKELEY				
LHC IR FEEDBOX CRYOGENICS PIPE, LDI				
MICROFILMED:	DWG. TYPE	SHOWN ON	SCALE:	DO NOT SCALE PRINTS
	ASSEM	-	1 / 4	
PATENT CLEAR:	DESIGN ACCT. NO.	CATEGORY CODE	DWG. NO.	SIZE REV.
	Z5LCE2	LH2003	2512464	A