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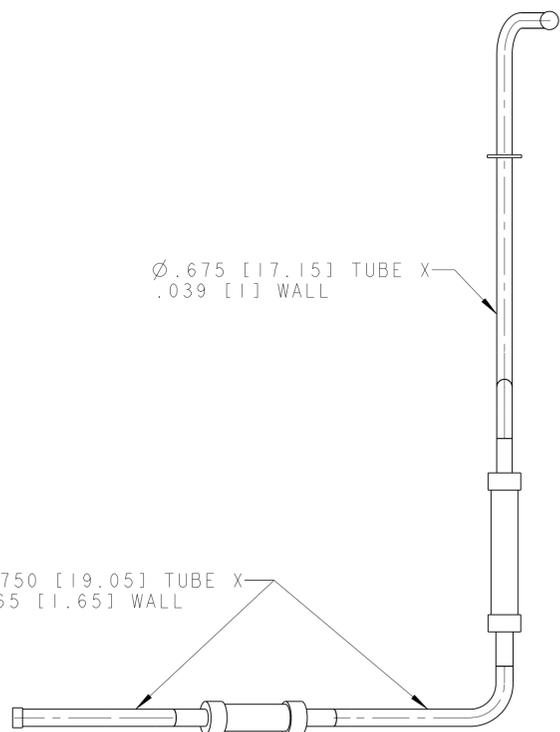
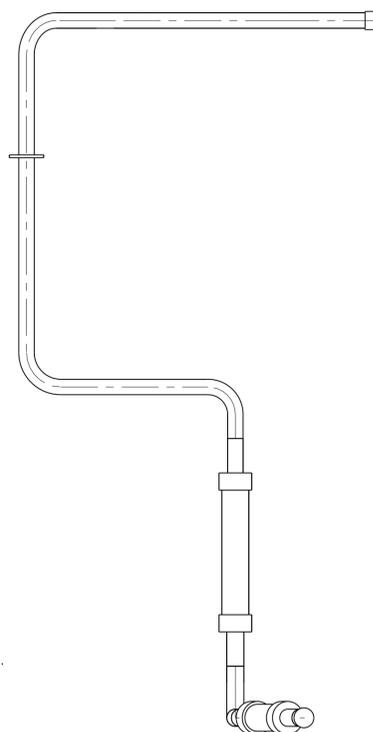
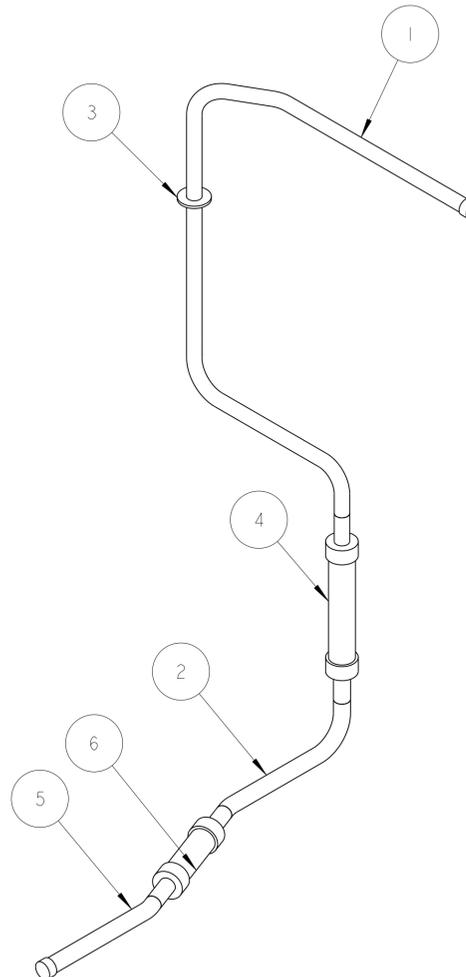
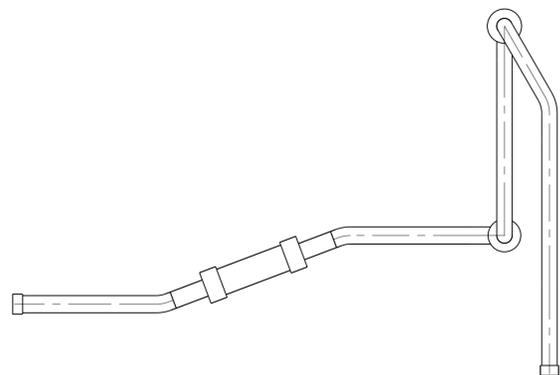
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DWG. NO. 2515034
SIZE A
REV. 1

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.

| ITEM | PART NO | RECD | DESCRIPTION | MATERIAL |
|------|---------|------|--------------------------------------|---------------|
| 6 | - | - | BRAIDED FLEX HOSE, 3/4" ID X 3" LL | SS 300 SERIES |
| 5 | - | - | TUBE, PER ASTM A269 | SS 304L |
| 4 | - | - | BRAIDED FLEX HOSE, 3/4" ID X 5.4" LL | SS 300 SERIES |
| 3 | - | - | COLLAR | SS 304L |
| 2 | - | - | TUBE, PER ASTM A269 | SS 304L |
| 1 | - | - | TUBE, PER ASTM A269 | SS 304L |

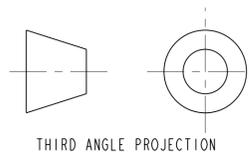


Ø.675 [17.15] TUBE X
.039 [1] WALL

Ø.750 [19.05] TUBE X
.065 [1.65] WALL

SCALE 1/4

10. VENDOR SUGGESTED CHANGES TO TOLERANCES TO FACILITATE FABRICATION OR ASSEMBLY; SUBJECT 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 FEEDBOX 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.



| | | | | | | | | | |
|--|------------------------|----------------------------|------------|-------------|-----------------|--|-----------|--|-----------|
| TOLERANCES | | UNLESS OTHERWISE SPECIFIED | | SHOP ORDERS | | SER. NO. DATE ISSD | | ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY UNIVERSITY OF CALIFORNIA - BERKELEY | |
| X.X ± 0.1 | FRAC. ± 1/64 | ACCT NO. Y | NO. RECD Y | NO. Y | DATE ISSD | LHC IR FEEDBOX CRYOGENICS PIPE, EI | | | |
| X.XX ± 0.03 | Angles ± 1.00° | DEL TO Y | DATE RECD | DATE RECD | DATE RECD | | | | |
| X.XXX ± 0.010 | FINISH 125 \sqrt{Ra} | SURFACE TREATMT | | TREATMT | | | | | |
| DO NOT SCALE PRINT | | | | PROJECT TAG | | METHOD N/A | | MICROFILMED: DWG. TYPE SHOWN ON SCALE: 1/4 DO NOT SCALE PRINTS | |
| THREADS ARE CLASS 2 | | | | PROJECT N/A | | PROJECT N/A | | ASSEM | |
| CHAMFER ENDS OF ALL SCREW THREADS 30° | | | | PROJECT N/A | | PROJECT N/A | | SHEET 1 OF 2 | |
| CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS | | | | PROJECT N/A | | PROJECT N/A | | DESIGN ACCT. NO. CATEGORY CODE | |
| BREAK EDGES .016 MAX. ON MACHINED WORK | | | | PROJECT N/A | | PROJECT N/A | | Z5LCE2 LH2003 | |
| REMOVE BURRS, WELD SPLATTER & LOOSE SCALE | | | | PROJECT N/A | | PROJECT N/A | | DWG. NO. SIZE REV. | |
| IN ACCORDANCE WITH ASME Y14.5M & B46.1 | | | | PROJECT N/A | | PROJECT N/A | | 2515034 A | |
| REV | DWG | CHK | ZONE | DATE | INITIAL RELEASE | CHG BY | DATE | APPR BY | DATE |
| A | ARH | SPV | | 10-25-02 | INITIAL RELEASE | S. VIROSTEK | 25-0c1-02 | D. OSHATZ | 25-0c1-02 |
| | | | | | CHANGES | | | | |

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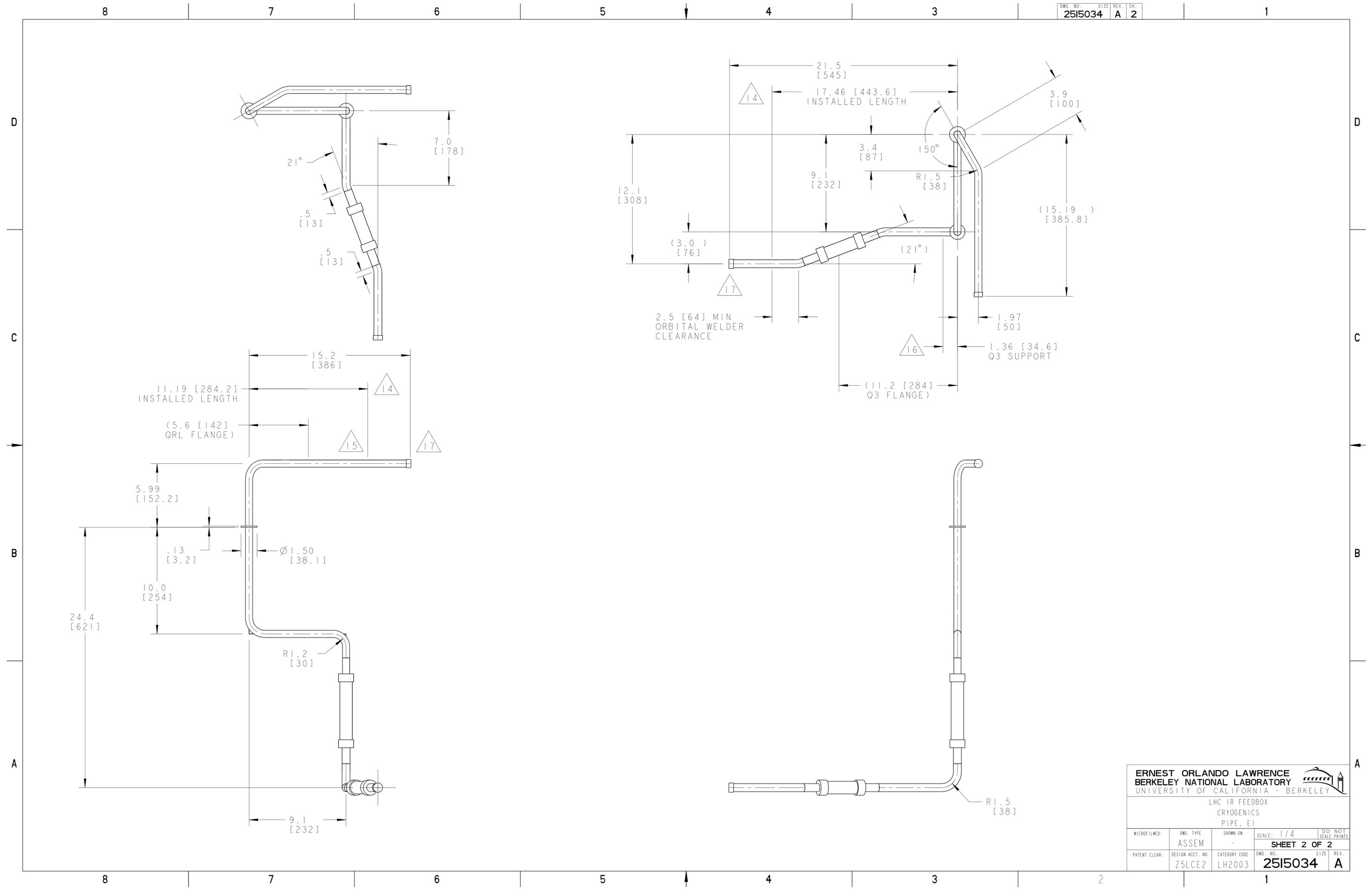
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ERNEST ORLANDO LAWRENCE
 BERKELEY NATIONAL LABORATORY
 UNIVERSITY OF CALIFORNIA - BERKELEY

LHC IR FEEDBOX
 CRYOGENICS
 PIPE, EI

| | | | | |
|---------------------|----------------------------|-------------------------|--------------|---------------------|
| 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. 2515034 | | | SIZE A | REV. A |