

NOTES:

101. ALL DIMENSIONS ARE IN MILLIMETERS (mm) AND VALUES ARE IN SI UNITS. DIMENSIONS AND VALUES IN BRACKETS ARE U.S. CUSTOMARY UNITS (inch) CONVERTED FROM MILLIMETERS / SI UNITS.

107. INSPECTION / ACCEPTANCE TO BE MEASURED AND RECORDED IN SI UNITS.

109b. ESTIMATED WEIGHT IS 149.3 KG

901. FOR ADDITIONAL INFORMATION, SEE TOFC MECHANICAL REQUIREMENTS DOCUMENT.

ABBREVIATIONS:

ALS-U = ADVANCE LIGHT SOURCE UPGRADE

ASSY = ASSEMBLY

BTA = BOOSTER-TO-ACCUMULATOR RING TRANSFER LINE

CKT = CIRCUIT

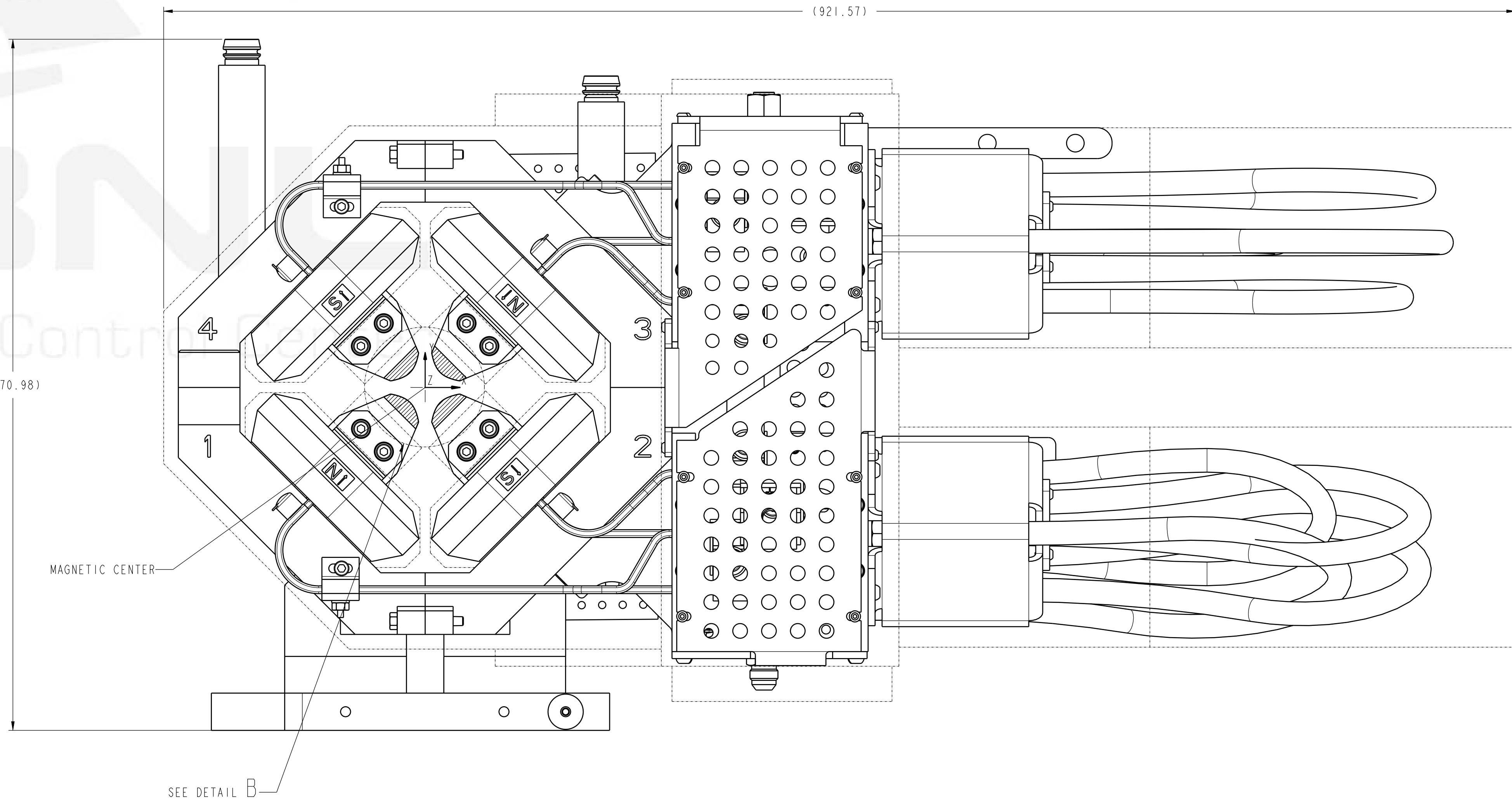
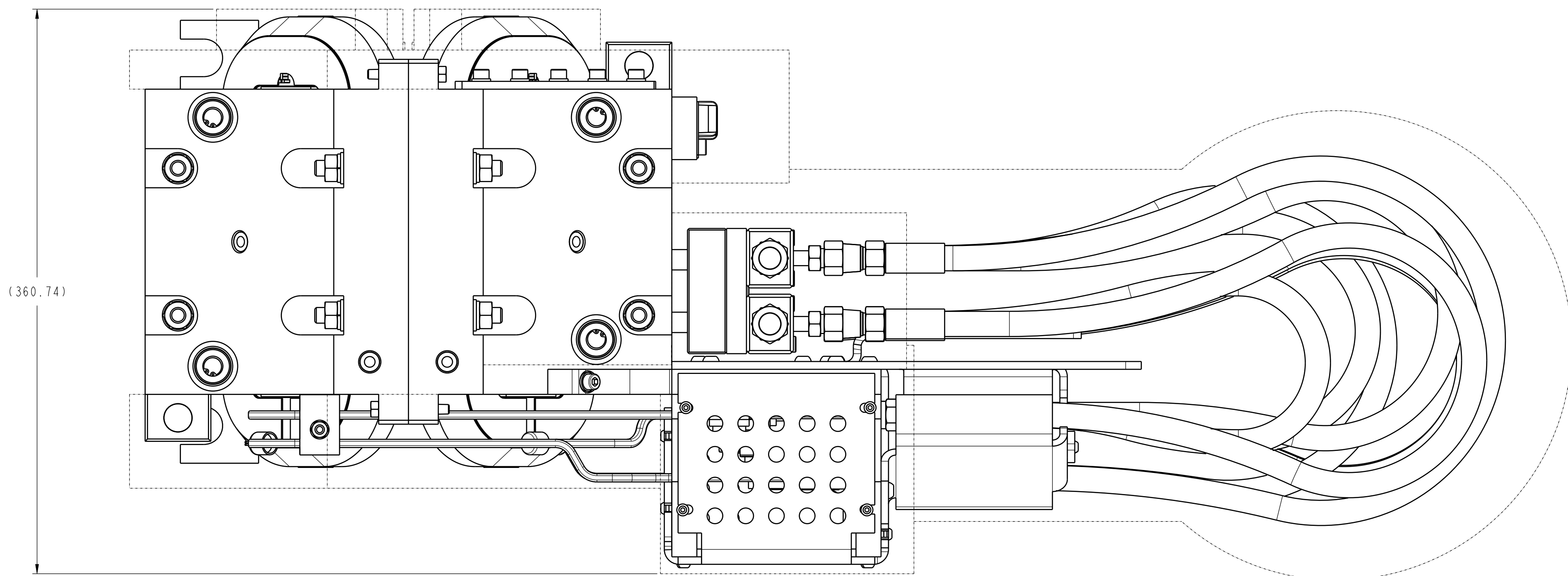
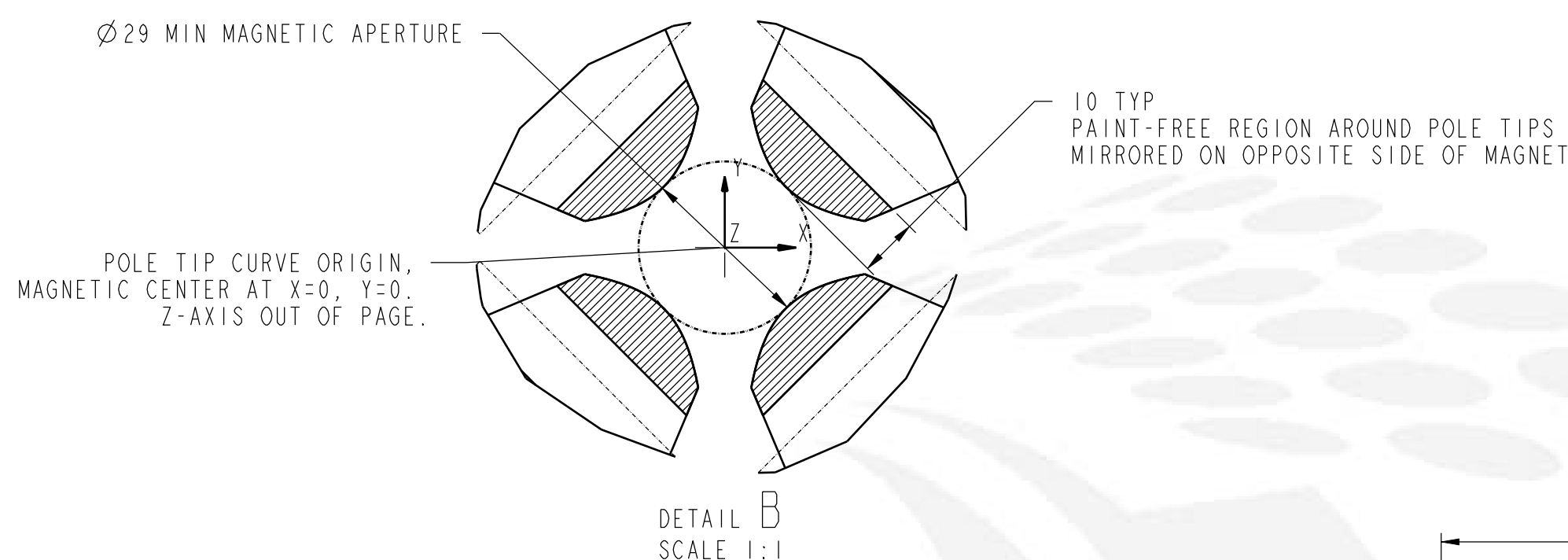
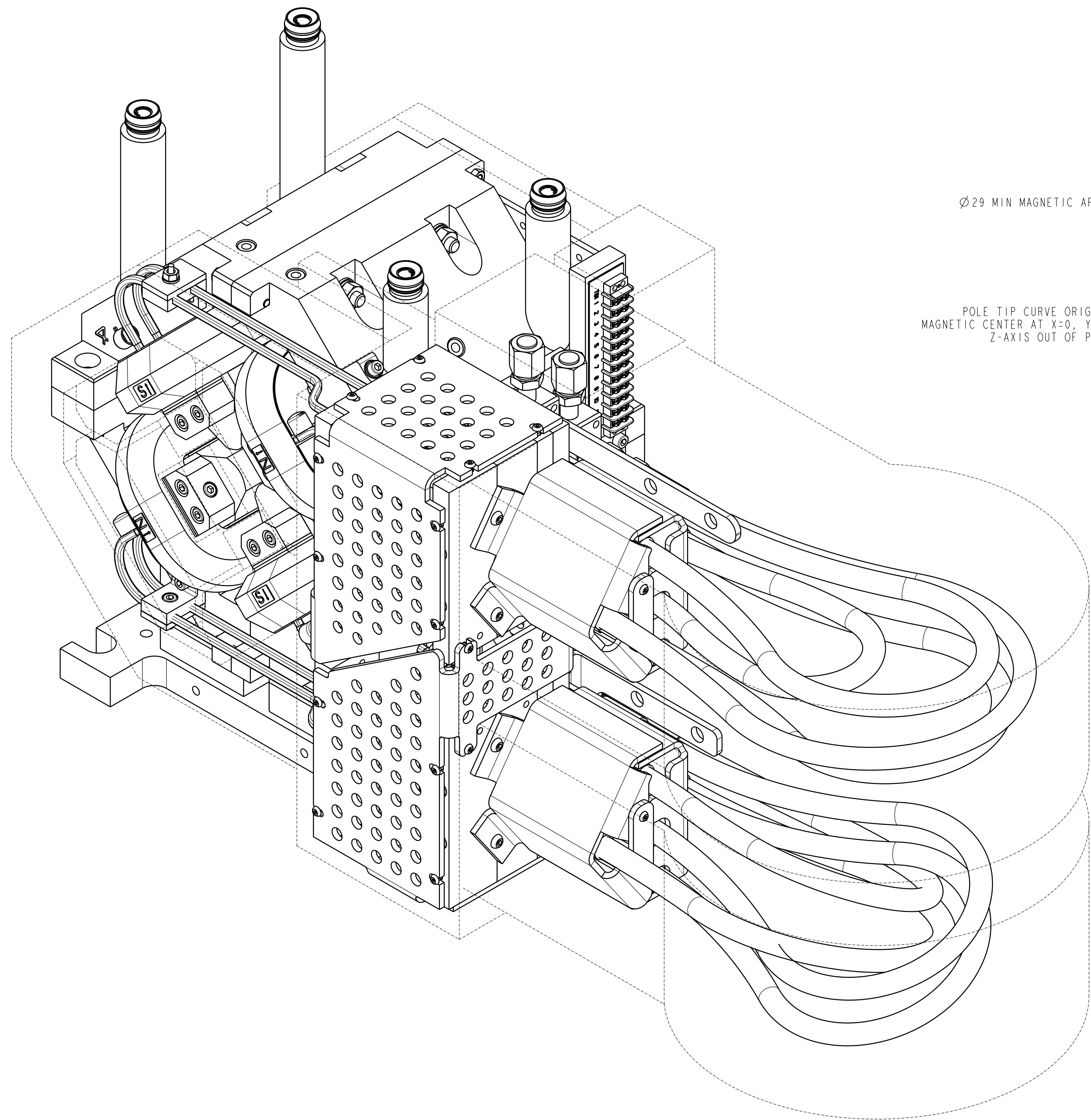
ESD = ENGINEERING SPECIFICATION DOCUMENT

LBNL = LAWRENCE BERKELEY NATIONAL LABORATORY

LCW = LOW-CONDUCTIVITY WATER

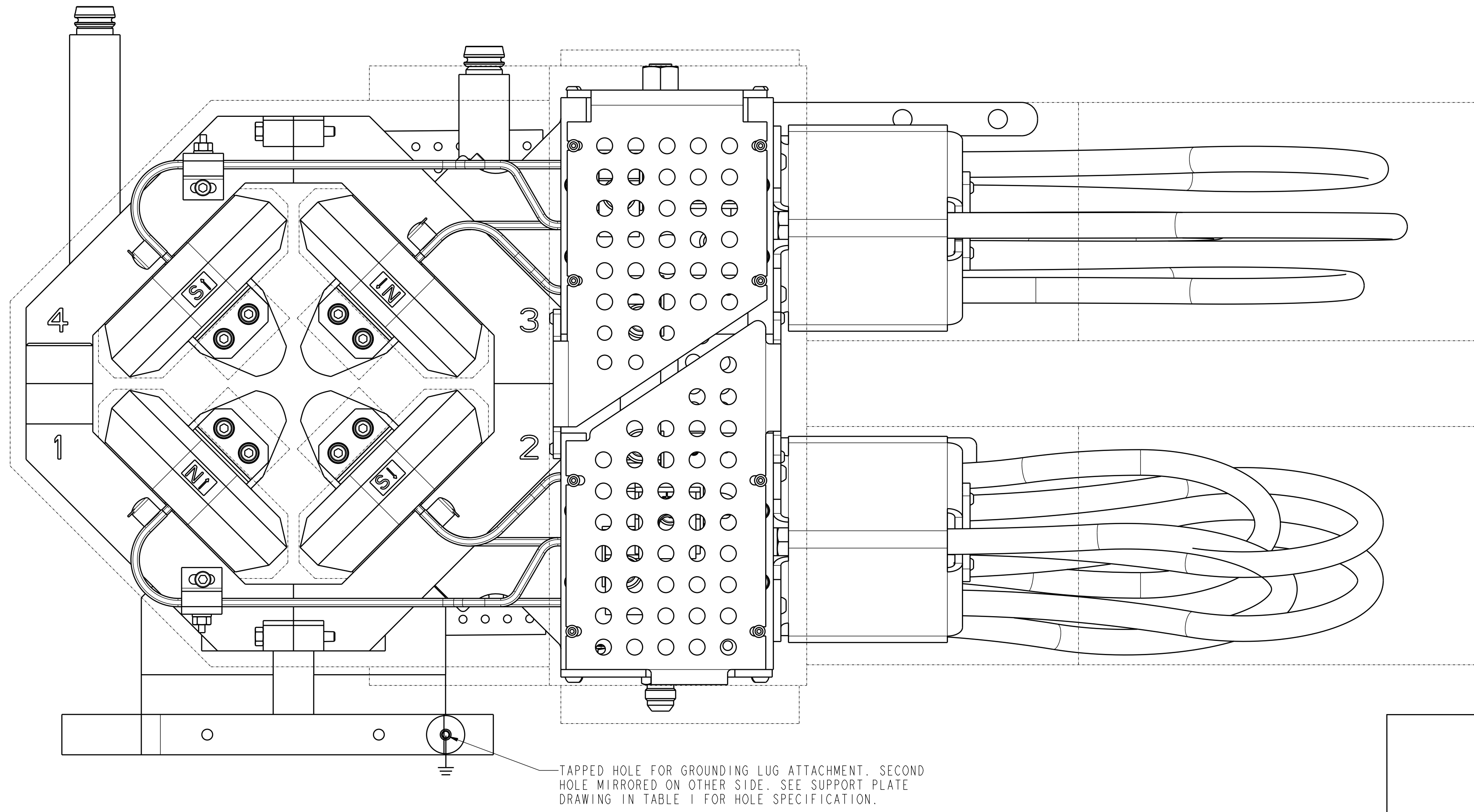
TOFC = FOCUSING QUADRUPOLE TYPE C

TOFC MASTER DRAWING

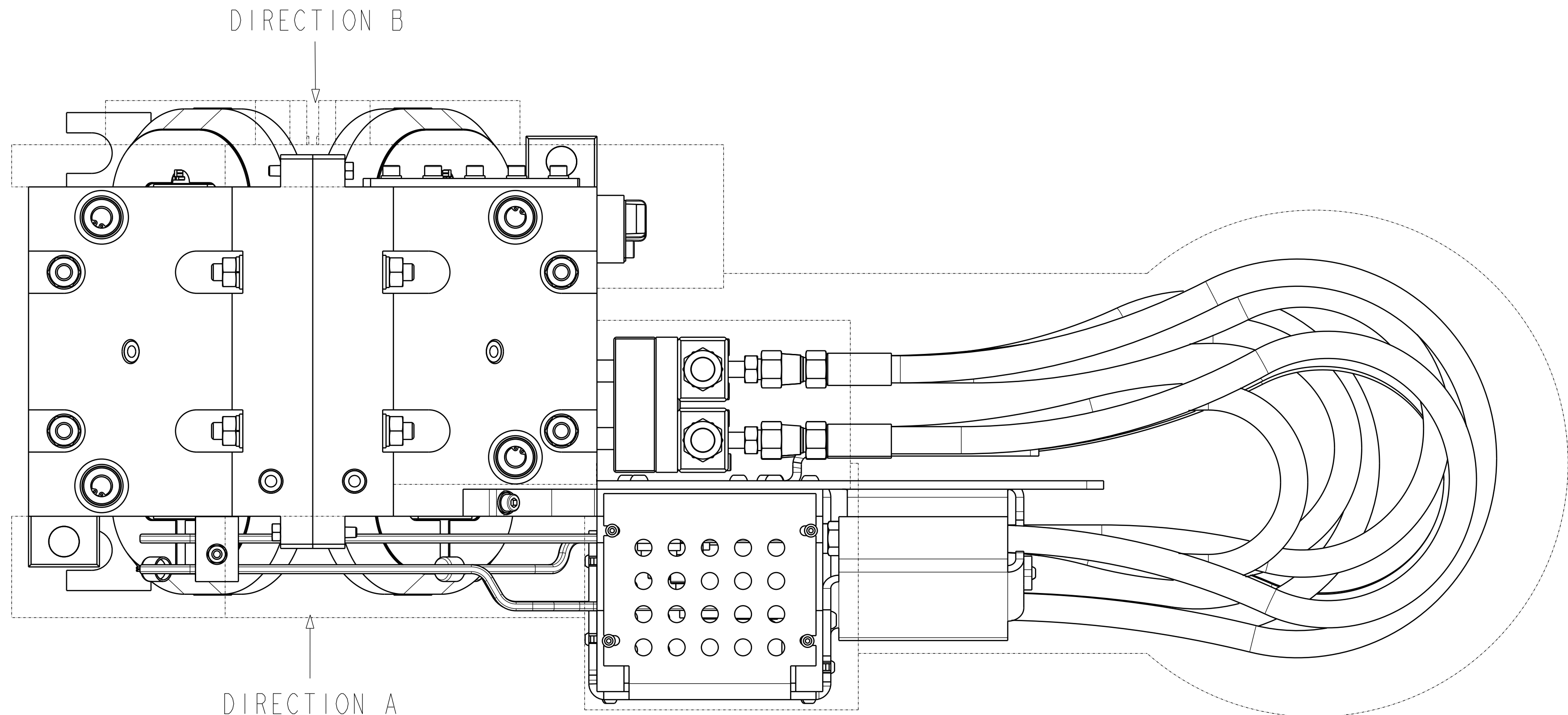
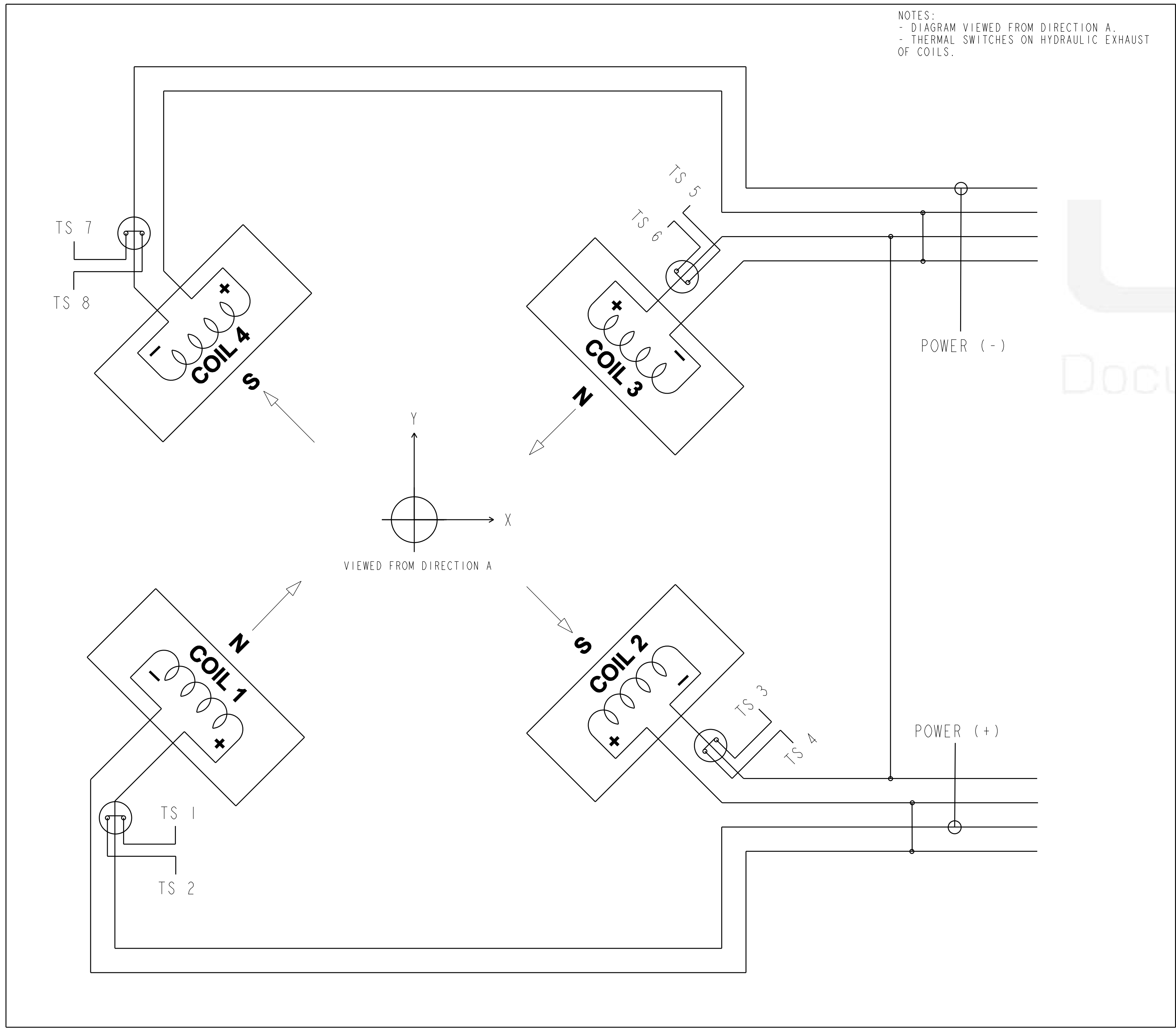


TOFC DRAWING TREE	
DRAWING DESCRIPTION	DRAWING NUMBER
BTA QUAD COMMON FAMILY SPACECLAIM INTERFACE DRAWING	AL-1405-0939
YOKE PRE-ASSY, TOFC	AL-1423-8022
BASEPLATE, TOFC	AL-1423-8021

CHANGE DESCRIPTION (SEE LBNL PDM FOR REV HISTORY)		UNLESS OTHERWISE SPECIFIED		PROJECT NAME		ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY UNIVERSITY OF CALIFORNIA	
BASELINE RELEASE		ESTIMATED MASS 149.334 KG		ADVANCED LIGHT SOURCE		ALS-U - BOOSTER TO ACCUMULATOR TRANSFER LINE	
AUTHOR Szezeri, Sullivan		TOLERANCE X ± 0.1, Y ± 0.1, Z ± 0.05		DRAW REF DOC EG-1000-0923		MAGNETS - GENERAL	
CHECKED BY mmorden		FRACTIONS: # / - / -		DRAWING UNITS mm-kg-s		TOFC MAGNET ASSY	
CHECKED AT Apr 16 2021 10:58:48 AM PDT		ANGLES: ± 1°		SCALE 1:2		CATEGORY CODE	
RELEASED BY CAswenson		MACH. SURFS: 3.2um ✓ or better		THIRD ANGLE		LIFECYCLE STATE	
RELEASED AT Apr 21 2021 9:51:20 AM PDT		REFERENCE - THREADS ARE CLASS G or H - BREAK EDGES 0.5 MAX, ON MACHINED WORK - REMOVE BUBBLES, WELD SPLATTER & LOOSE SCALE		SHEET SIZE E		ITEM NUMBER	
THIS DRAWING IS THE PROPERTY OF ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY (LBNL) AND ANYTHING PRODUCED FROM THESE DRAWINGS IS SUBJECT TO LBNL'S INTELLECTUAL PROPERTY RIGHTS. THIS DRAWING IS LOANED ON A CONFIDENTIAL BASIS AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION OF LBNL.		SHEET 1 OF 2		Released		AL-1423-8026	



MAIN COIL ELECTRIC CIRCUIT CONNECTION DIAGRAM



CORRECTOR COIL AND THERMAL SWITCH ELECTRICAL CIRCUIT CONNECTION DIAGRAM

