

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 246.9 KG

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

ABBREVIATIONS:

ALS-U = ADVANCE LIGHT SOURCE UPGRADE

ASSY = ASSEMBLY

BTA = BOOSTER-TO-ACCUMULATOR RING TRANSFER LINE

CKT = CIRCUIT

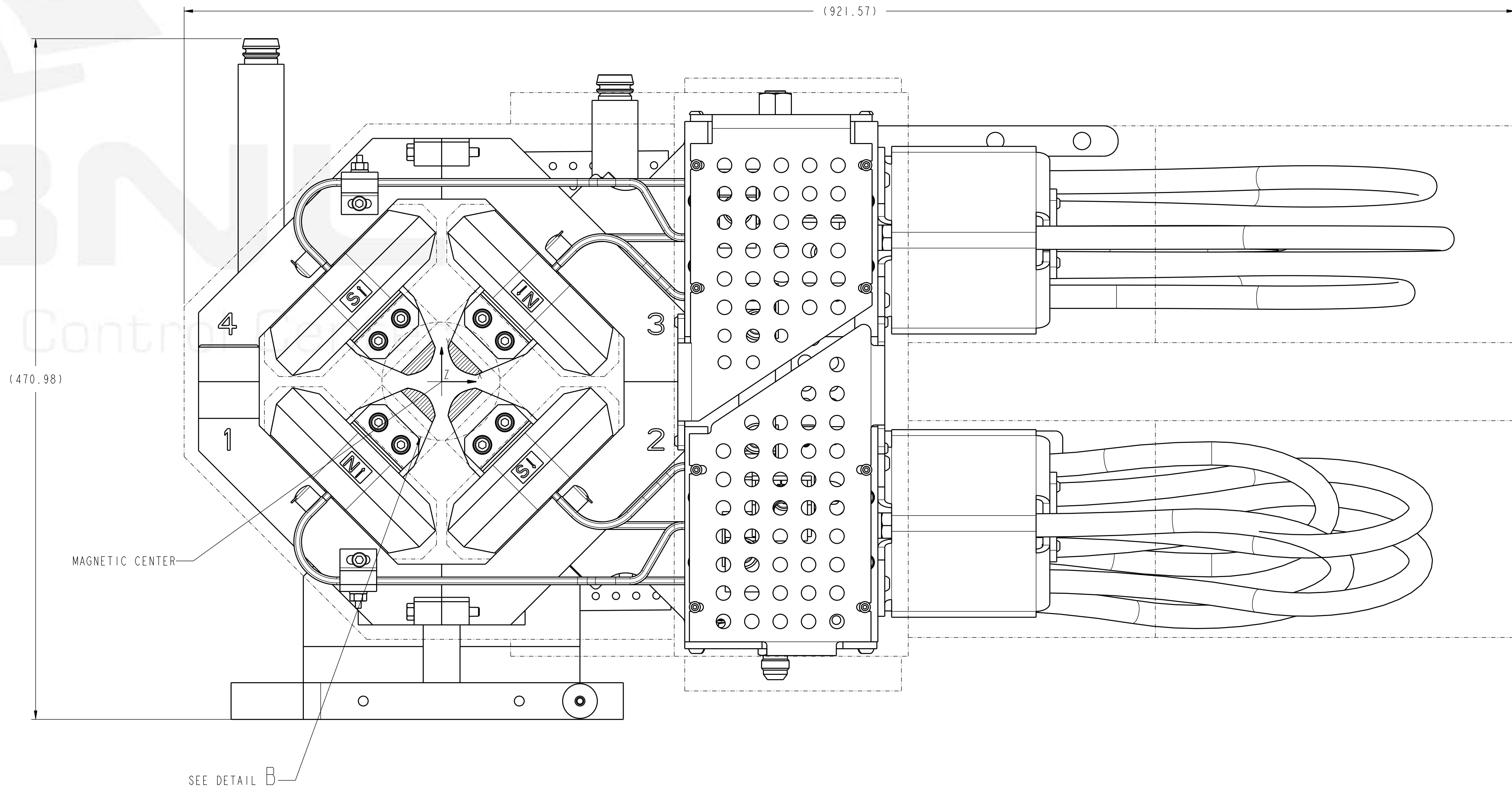
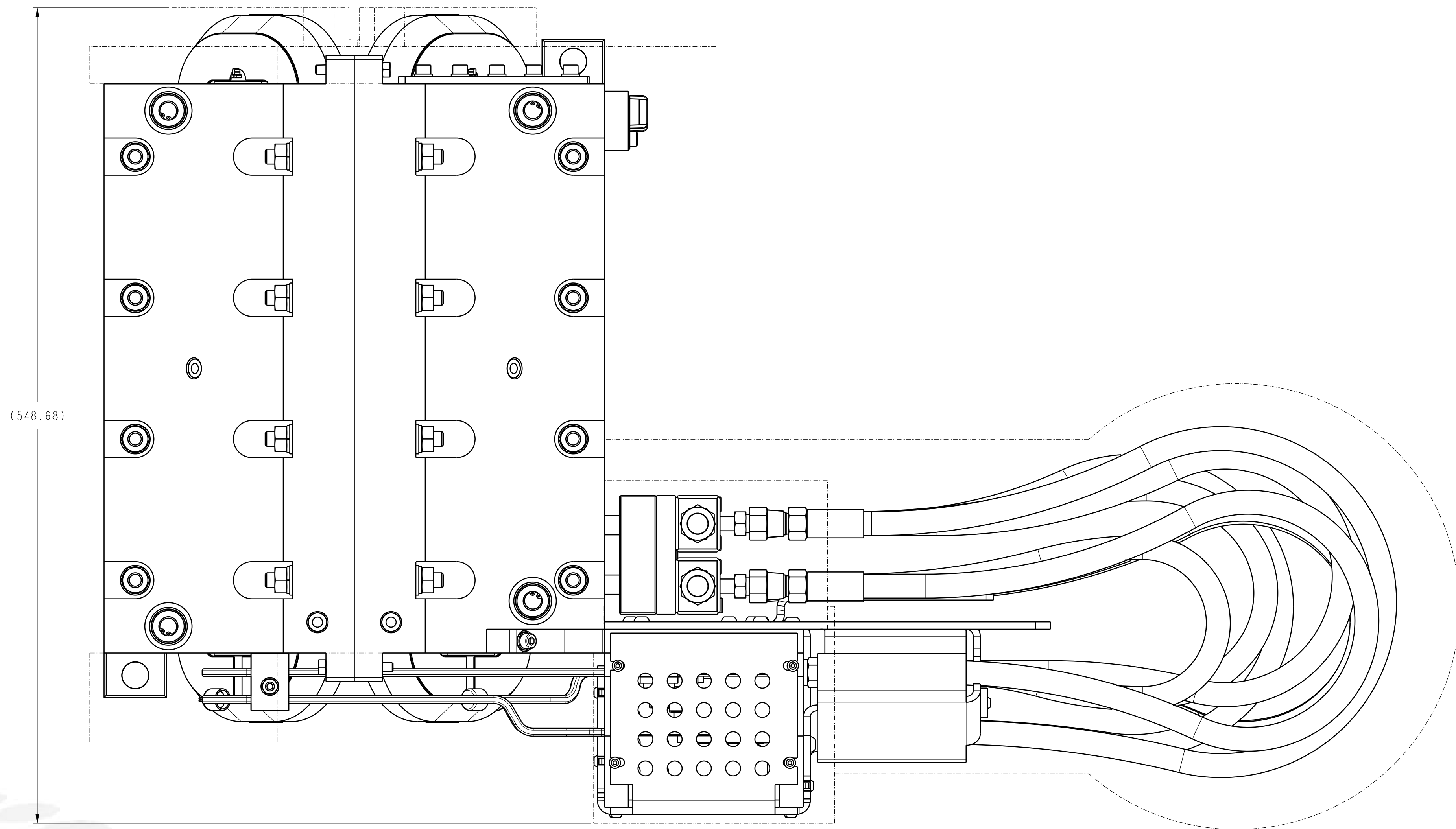
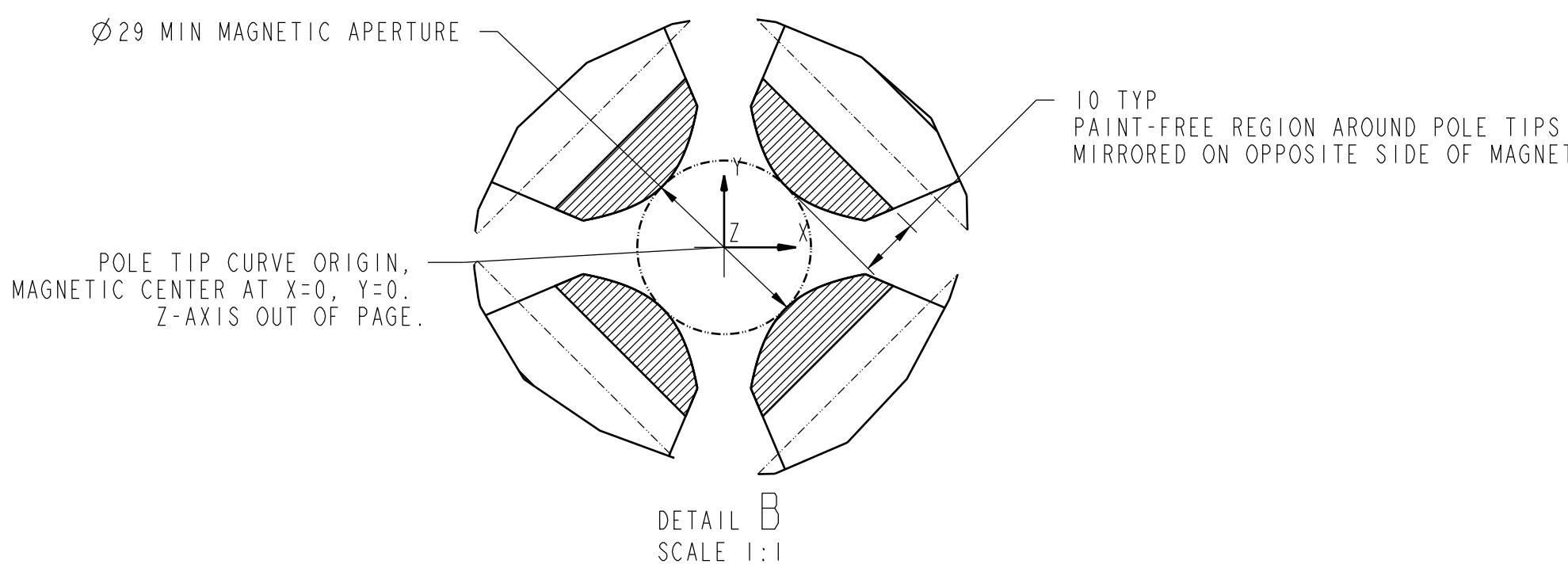
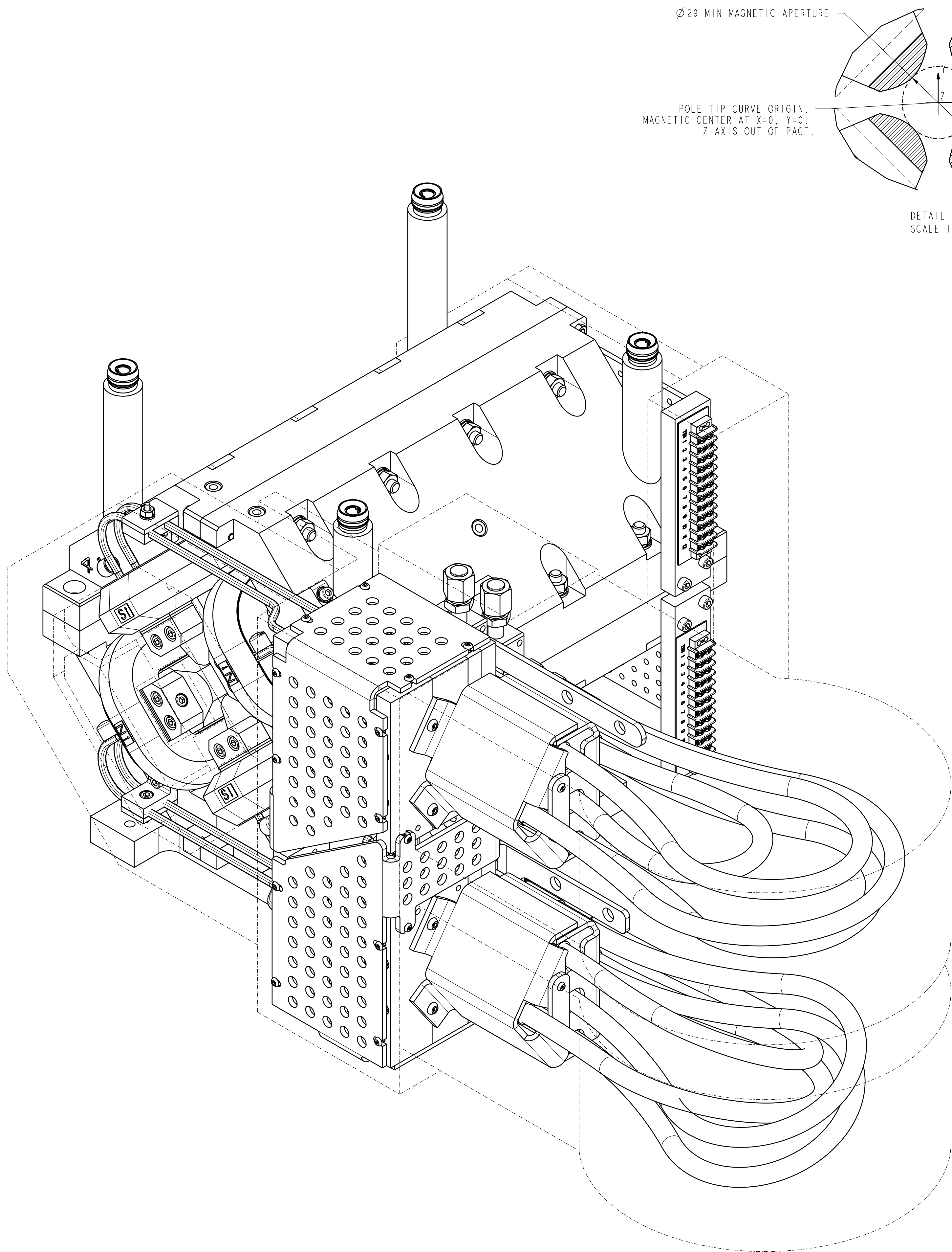
ESD = ENGINEERING SPECIFICATION DOCUMENT

LBL = LAWRENCE BERKELEY NATIONAL LABORATORY


LCW = LOW-CONDUCTIVITY WATER

TOFB = FOCUSING QUADRUPOLE TYPE B

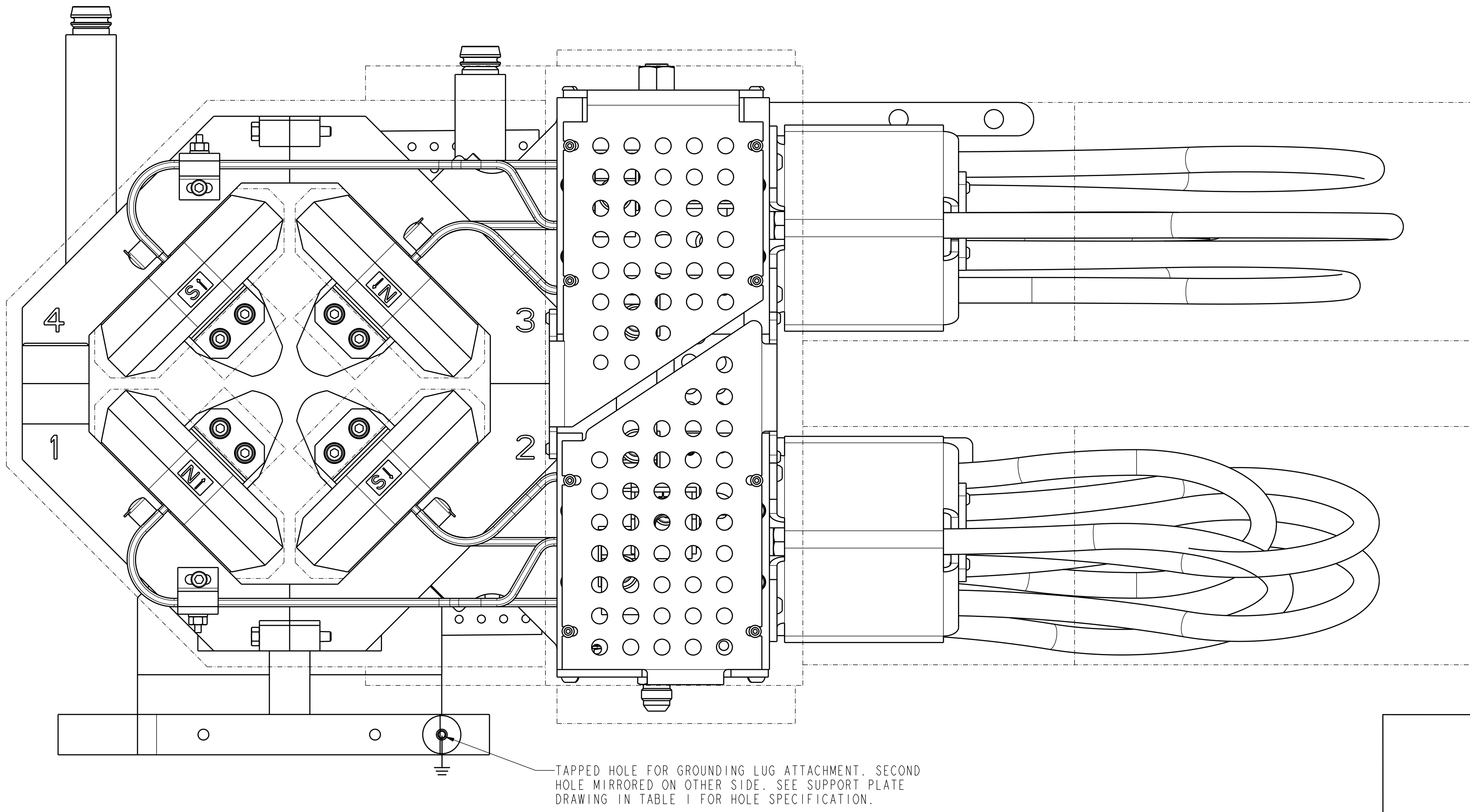
TOFB MASTER DRAWING



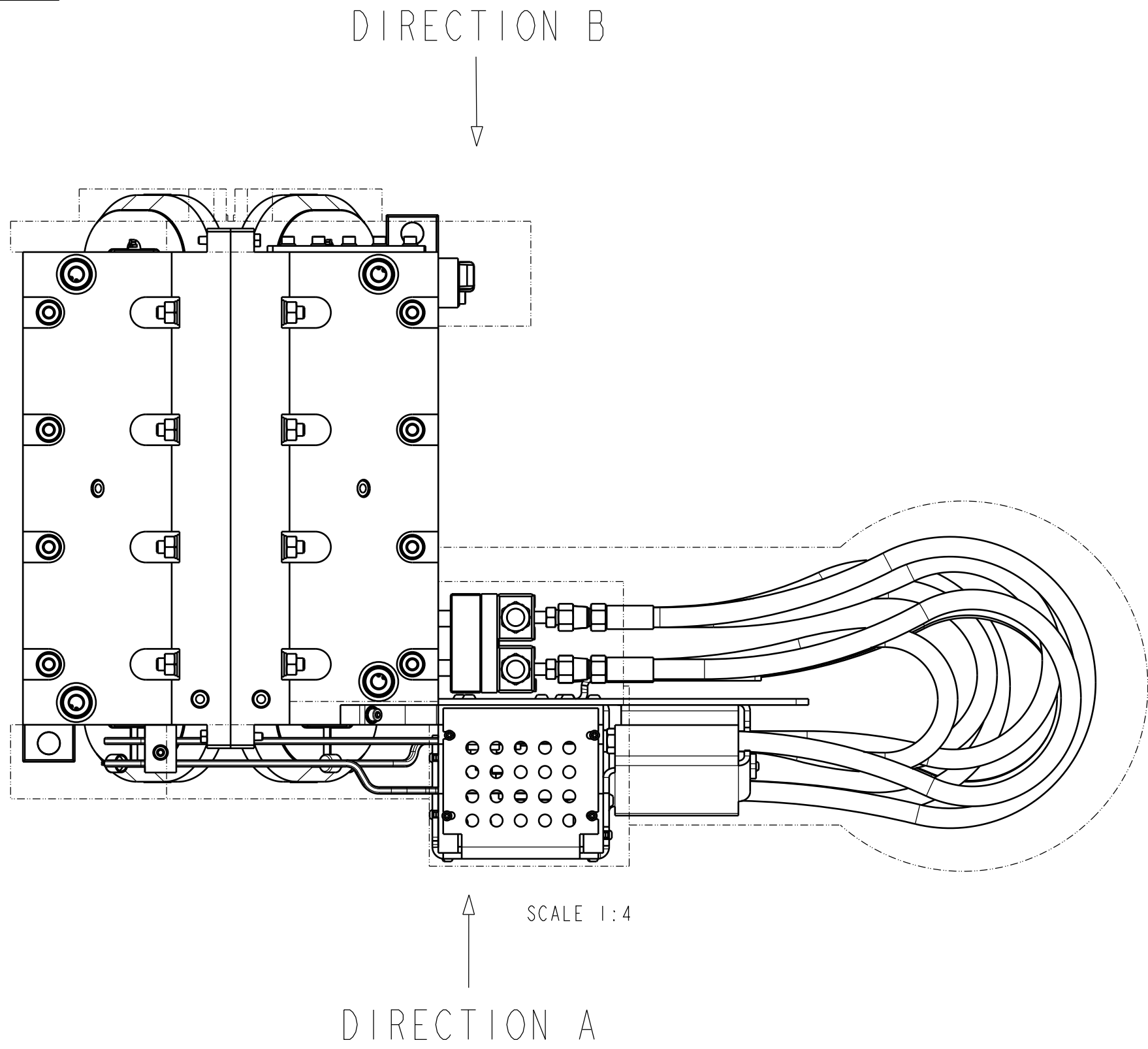
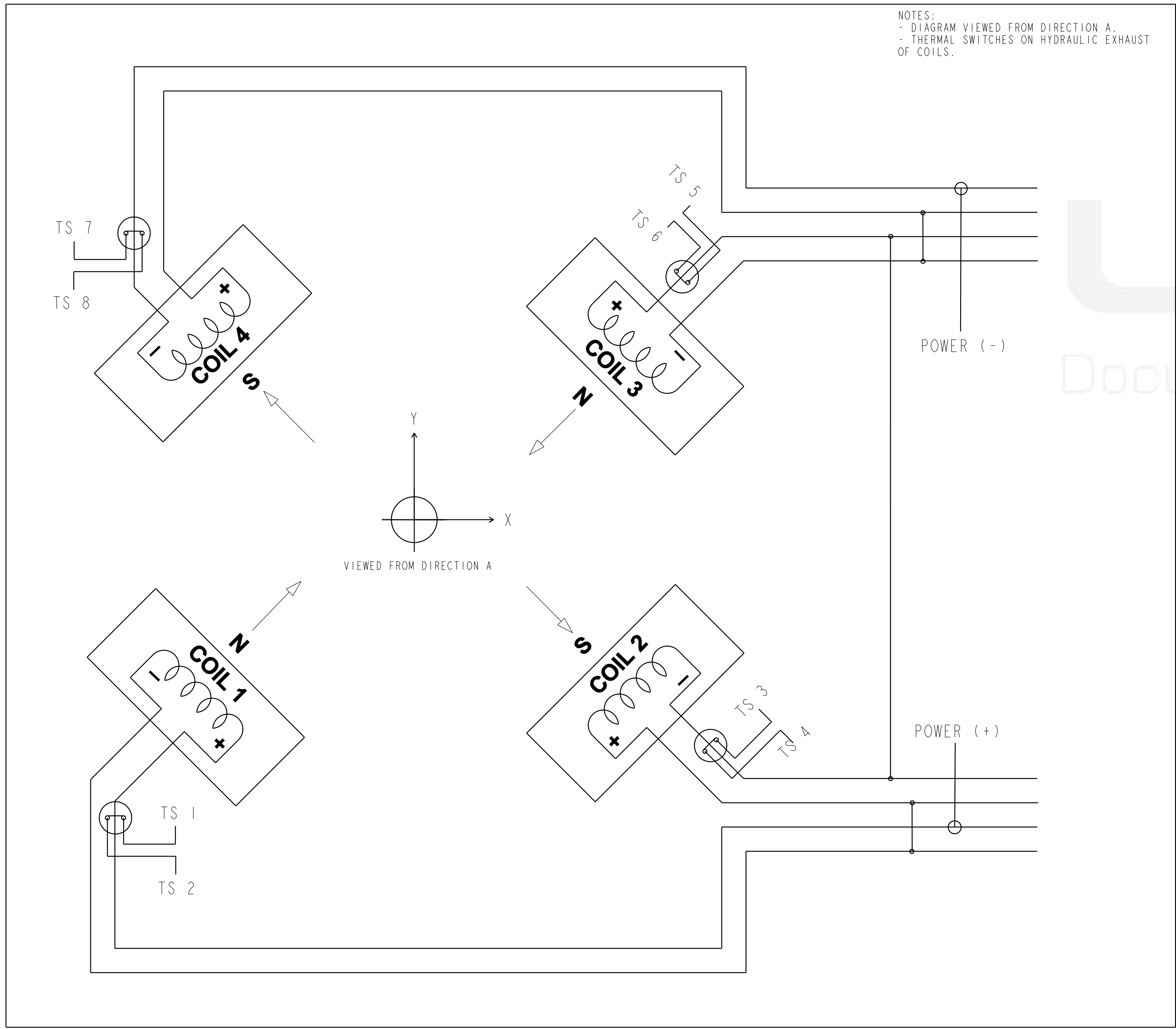
TOFB DRAWING TREE	
DRAWING DESCRIPTION	DRAWING NUMBER
BTA QUAD COMMON FAMILY SPACECLAIM INTERFACE DRAWING	AL-1405-0939
YOKE PRE-ASSY, TOFB/TQDB-B	AL-1424-1531
BASEPLATE, TOFB/TQDB-B	AL-1424-1529

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 246.863 KG		ADVANCED LIGHT SOURCE			
AUTHOR Saezari, Sullivan		TOLERANCE X: ±0.1, Y: ±0.1, Z: ±0.05		DWG REF DOC EG-1000-0923		ALS-U - BOOSTER TO ACCUMULATOR TRANSFER LINE	
CHECKED BY mmorden		FRACTIONS: 1/16, 1/32, 1/64, 1/128, 1/256, 1/512, 1/1024, 1/2048, 1/4096, 1/8192, 1/16384, 1/32768, 1/65536, 1/131072, 1/262144, 1/524288, 1/1048576, 1/2097152, 1/4194304, 1/8388608, 1/16777216, 1/33554432, 1/67108864, 1/134217728, 1/268435456, 1/536870912, 1/1073741824, 1/2147483648, 1/4294967296, 1/8589934592, 1/17179869184, 1/34359738368, 1/68719476736, 1/137438953472, 1/274877906944, 1/549755813888, 1/1099511627776, 1/2199023255552, 1/4398046511104, 1/8796093022208, 1/17592186044416, 1/35184372088832, 1/70368744177664, 1/140737488355328, 1/281474976710656, 1/562949953421312, 1/1125899906842624, 1/2251799813685248, 1/4503599627370496, 1/9007199254740992, 1/18014398509481984, 1/36028797018963968, 1/72057594037927936, 1/144115188075855872, 1/288230376151711744, 1/576460752303423488, 1/1152921504606846976, 1/2305843009213693952, 1/4611686018427387904, 1/9223372036854775808, 1/18446744073709551616, 1/36893488147419103232, 1/73786976294838206464, 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ELECTRICAL CIRCUIT DIAGRAMS



MAIN COIL ELECTRIC CIRCUIT CONNECTION DIAGRAM



CORRECTOR COIL AND THERMAL SWITCH ELECTRICAL CIRCUIT CONNECTION DIAGRAM

