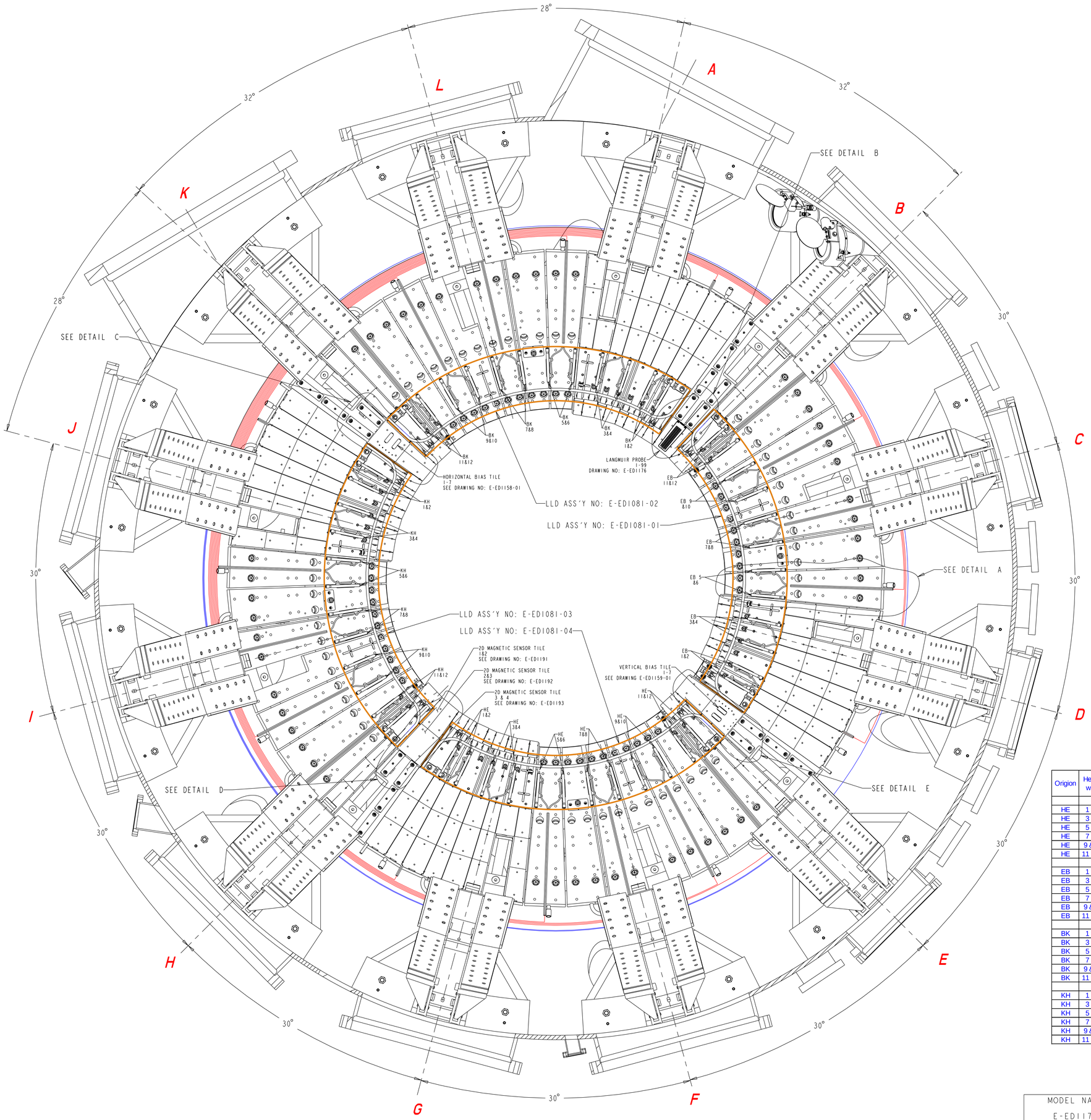
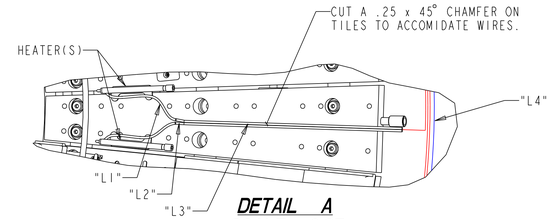
NO.	REVISION	BY	CH	SUP	APPROVED	DATE



ALL LLD GAS COOLING LINES WILL ENTER AND EXIT AT BAY G

SECTION B-B
SCALE 0.190



DETAIL A
SCALE 0.25

LEGEND:
L1 = AVERAGE LENGTH FROM THE END OF HEATER TO OUTSIDE EDGE OF COPPER TILE.
L2 = AVERAGE LENGTH FROM OUTSIDE EDGE OF COPPER LLD TILE DROPING DOWN TO LEADING EDGE OF GRAPHITE TILE.
L3 = LENGTH FROM LEADING EDGE OF TILES TO OUTER EDGE OF GRAPHITE TILES.
L4 = CIRCUMFERENTIAL LENGTH FROM PORT J TO DESIGNATED HEATER (L3) END POINT.
L5 = VERTICAL DISTANCE DOWNWARD FROM L4 DOWNWARD TO DIVERTOR PORT.
L6 = VERTICAL DISTANCE DOWNWARD THROUGH FEEDTHRU TREE.
L7 = SLACK AVAILABLE OUTSIDE FEED THRU.

Origion	Heater wire:	Wiring direction	L1 (inches)	L2 (inches)	L3 (inches)	L4 (inches)	L5 (inches)	L6 (inches)	L7 (inches)	Total (inches)	Total (feet)	Total (nearest foot)	Total (cm)	Number of cables (feet)
HE	1 & 2	ccw	6.5	1	17	66.8	11	57.5	11.8	171.6	14.3	14	435.86	4x 14'
HE	3 & 4	ccw	6.5	1	17	76.9	11	57.5	11.8	181.7	15.1	15	461.52	4x 15'
HE	5 & 6	ccw	6.5	1	17	90.1	11	57.5	11.8	194.9	16.2	16	495.05	4x 16'
HE	7 & 8	ccw	6.5	1	17	103.5	11	57.5	11.8	208.3	17.4	17	529.08	2x 17'
HE	9 & 10	ccw	6.5	1	17	116.8	11	57.5	11.8	221.6	18.5	18	562.86	4x 18'
HE	11 & 12	ccw	6.5	1	17	127.2	11	57.5	11.8	232	19.3	19	589.28	4x 19'
EB	1 & 2	cw	6.5	1	17	171.7	11	57.5	11.8	276.5	23.0	23	702.31	2x 23'
EB	3 & 4	cw	6.5	1	17	161.1	11	57.5	11.8	265.9	22.2	22	675.39	2x 22'
EB	5 & 6	cw	6.5	1	17	147.5	11	57.5	11.8	252.3	21.0	21	640.84	2X21'
EB	7 & 8	cw	6.5	1	17	133.9	11	57.5	11.8	238.7	19.9	20	606.3	2x 20'
EB	9 & 10	cw	6.5	1	17	120.5	11	57.5	11.8	225.3	18.8	19	572.26	-
EB	11 & 12	cw	6.5	1	17	110.1	11	57.5	11.8	214.9	17.9	18	545.85	-
BK	1 & 2	cw	6.5	1	17	90.1	11	57.5	11.8	194.9	16.2	16	495.05	-
BK	3 & 4	cw	6.5	1	17	79.8	11	57.5	11.8	184.6	15.4	15	468.88	-
BK	5 & 6	cw	6.5	1	17	66.7	11	57.5	11.8	171.5	14.3	14	435.61	-
BK	7 & 8	cw	6.5	1	17	53.5	11	57.5	11.8	158.3	13.2	13	402.08	4x 13'
BK	9 & 10	cw	6.5	1	17	40.7	11	57.5	11.8	145.5	12.1	12	369.57	4x 12'
BK	11 & 12	cw	6.5	1	17	30.6	11	57.5	11.8	135.4	11.3	11	343.92	4x 11'
KH	1 & 2	cw	6.5	1	17	11.3	11	57.5	11.8	116.1	9.7	10	294.89	4x 10'
KH	3 & 4	cw	6.5	1	17	1.4	11	57.5	11.8	106.2	8.9	9	269.75	2x 9'
KH	5 & 6	ccw	6.5	1	17	11.3	11	57.5	11.8	116.1	9.7	10	294.89	-
KH	7 & 8	ccw	6.5	1	17	24.2	11	57.5	11.8	129	10.8	11	327.66	-
KH	9 & 10	ccw	6.5	1	17	37	11	57.5	11.8	141.8	11.8	12	360.17	-
KH	11 & 12	ccw	6.5	1	17	47.1	11	57.5	11.8	151.9	12.7	13	385.83	-

NSTX-E-ED1171

MODEL NAME	COMPUTER GENERATED DRAWING MANUAL CHANGES NOT PERMITTED	CENTRAL FILES: UNLESS OTHERWISE SPECIFIED	PRINCETON PLASMA PHYSICS LABORATORY PRINCETON UNIVERSITY NATIONAL SPHERICAL TORUS EXPERIMENT
E-ED1171	Pro E	DIMENSIONS ARE IN INCHES MACHINE SURFACES 125	LIQUID LITHIUM DIVERTOR WIRING LENGTHS
	DO NOT VERIFY INFORMATION BY SCALING DRAWING	BREAK SHARP EDGES .005/.020	
13-Apr-09	NEXT ASSEMBLY	TOLERANCES NON-CUMULATIVE	DIV: MECH. ENG. / DATE: / CADD FILE: E-ED1171 DRW
		DECIMAL-INCH: .X +/-.100, .XX +/-.030, .XXX +/-.005, ANGULAR +/-0°-15' / FRACTIONS: 0"-12" +/-1/16, 12"-72" +/-1/8, 72"-120" +/-1/4, OVER 120" +/-1/2	ENG: R. ELLIS / APPROVED / DSN: R. UPCAVAGE / M. VIOLA / CHK: R. ELLIS / CHK RE / SUPV JS
WELDING ENGINEER			E-ED1171
APPVD: _____ DATE _____			SHEET 1 OF 4 / REV 0