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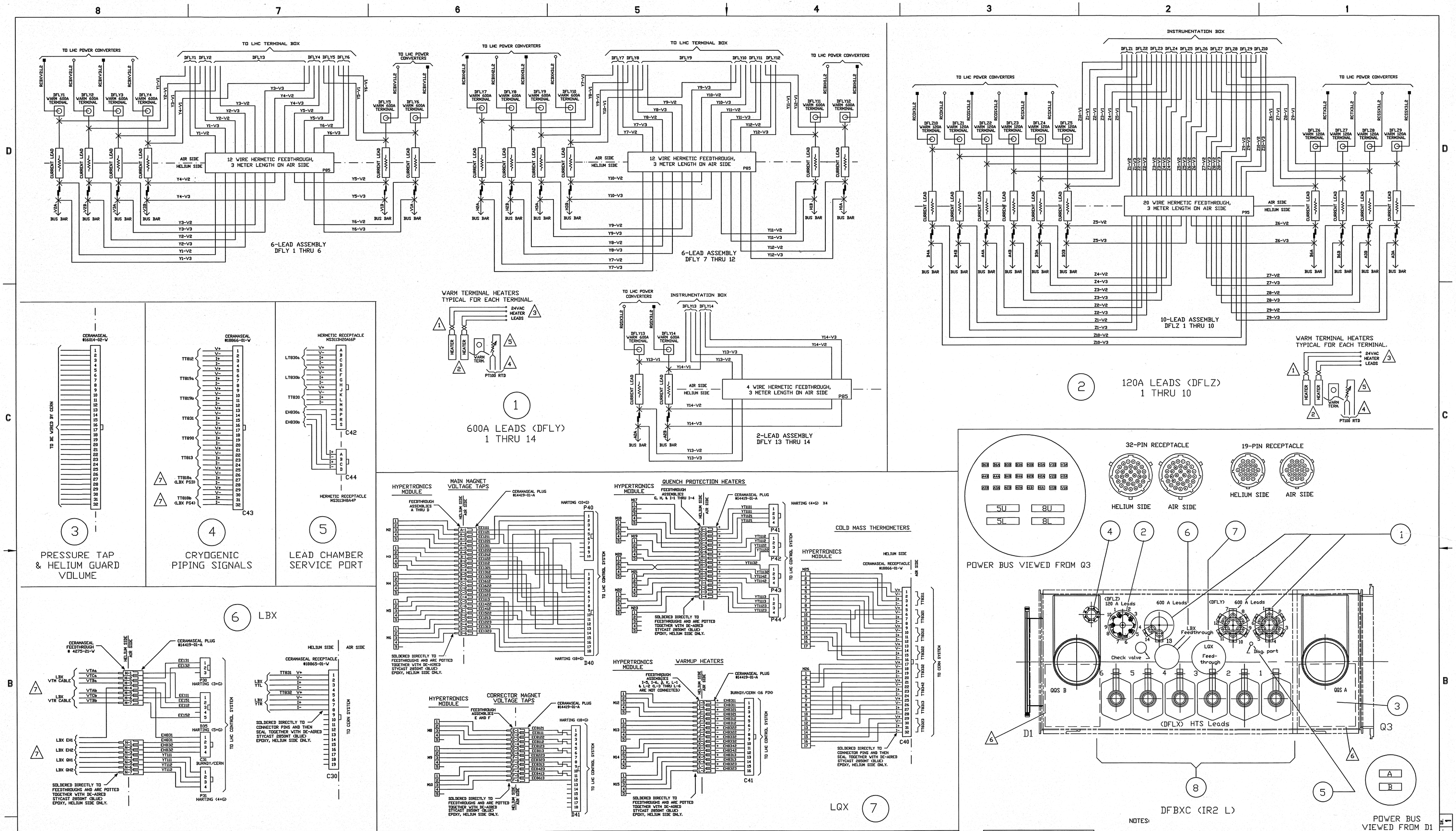

SYMBOL LEGEND
■ = A SIDE
○ = B SIDE
X = SOLDER JOINT
= CORRECTOR BUS SPLICE
600A LAP JOINTS PER LBNL PROCEDURE M982 AND 120A LAP JOINTS PER LBNL PROCEDURE M983.
= MAIN BUS SPLICE PER LBNL PROCEDURE M985

NOTES:

1. BUNDLE AND LABEL EACH 4-WIRE HEATER CABLE WITH "EH411", FOLLOWED BY THE CURRENT LEAD DESIGNATION, FOR EXAMPLE "Y13". WIRE LENGTH TO BE 3 METERS.
2. DFLY HEATER TOTAL POWER: 32W @ 24V, DFLZ HEATER TOTAL POWER: 20W @ 24V.
3. HEATERS TO BE POWERED IN PARALLEL WITH 24V SUPPLY. CONNECTIONS MADE AT CERN.
4. BUNDLE AND LABEL EACH 3-WIRE RTD CABLE WITH "TT491", FOLLOWED BY THE CURRENT LEAD DESIGNATION, FOR EXAMPLE "Z09". WIRE LENGTH TO BE 3 METERS.
5. SENSOR RESISTANCE PER IEC 751, CLASS B.
6. LOCATIONS OF CERN INSTRUMENT BOX
7. CONNECTIONS MADE AT TUNNEL INSTALLATION BY CERN

REV	DWG	CHK	ZONE	DATE	CHANGES
					REDRAW TO REFLECT ACTUAL BUILD: EE1412 MOVED FROM D40-14 TO D40-10, EE1413 MOVED FROM D40-10 TO D40-14, EE1622 MOVED FROM D40-13 TO P40-4, EE1422 MOVED FROM P40-4 TO D40-13.
D		B6			A2A TO DFLY 13 (VAS DFLY 14); A2B TO DFLY 14 (VAS DFLY 13).
C		C5			1) a) ADDED 19 AND 32 PIN CERN PINOUTS, b) CORRECTED C75 WIRING, c) CHANGED C45, C43, C44.
B		C7, A5			2) a) ADDED NOTES b) ADDED VIEW OF POWER BUSS.
		A1-B3			3) IN BOX 8 a) ADDED CERN-SPECIFIED CONNECTOR DESIGNATIONS, b) CHANGED HTS LEAD THERMOMETER PINOUTS IN C75, c) CHANGED HTS LEAD VOLTAGE TAP PINOUTS IN P75 AND P76.
		A4-A8			4) IN BOX 7: a) CHANGED CONNECTORS FROM FISCHER TO HARTING AND BURNDY, b) CHANGED VOLTAGE TAP, WARM UP HEATER AND TT DESIGNATIONS, c) CHANGED C40 PINOUTS, d) ADDED Q.P. HEATER DESIGNATIONS.
		B4-C6			5) IN BOX 6: a) CHANGED CONNECTORS FROM FISCHER TO HARTING AND BURNDY, b) CHANGED VOLTAGE TAP DESIGNATIONS, c) ADDED CERN Q.P. HEATER DESIGNATIONS, d) CHANGED WARM UP HEATER DESIGNATION, e) CHANGED C30 PINOUTS AND ADDED EE DESIGNATIONS.
		C7			6) IN BOX 5: CHANGED CONNECTOR CONFIGURATION.
		B1-C3			7) IN BOX 8: a) SEPARATE POWER FOR HEATERS, b) WIRE LABELS SIMPLIFIED, c) CHANGED FEEDTHROUGH DESIGNATION
		B4-C8			8) IN BOX 1: a) SEPARATE POWER FOR HEATERS, b) WIRE LABELS SIMPLIFIED, c) CHANGED FEED THROUGH DESIGNATION.

UNLESS OTHERWISE SPECIFIED
TOLERANCES: X.X ± 0.1; X.XX ± 0.03; X.XXX ± 0.010; FRACT ± 1/64; ANGLES ± 1.00°; FINISH 125 RMS
DO NOT SCALE PRINT
THREADS ARE CLASS 2
CHAMFER ENDS-OF ALL SCREW THREADS 30°
CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS
BREAK EDGES .016 MAX ON FINISHED WORK
REMOVE BURRS, WELD SPLATTER & LOOSE SCALE
IN ACCORDANCE WITH ASME Y14.5M & B46.1

SHOP ORDERS: ACKY NO. / REQD; SEN NO. / DATE; ISSD DATE; DEL DATE; REQD DATE; SURFACE TREATMENT; IDENT METHOD; PROJECT NUMBER; PROJECT NAME

DWN J. STIRKKINEN DATE 04-23-02
CHK B. BINGHAM DATE 12/14/05
APR J. ZBASNIK DATE 12/16/05

DESCRIPTION | MATERIAL | MAT. LOCATION

ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY
UNIVERSITY OF CALIFORNIA - BERKELEY

LHC IR FEEDBOX ELECTRICAL DFBXC (IR2 L) WIRING DIAGRAMS

MICROFILMED: | DWG. TYPE: ASSEMBLY | SHOWN ON | SCALE: 1/1 | DO NOT SCALE PRINTS | SHEET 1 OF 1
PATENT CLEAR: | DESIGN ACCT. NO.: Z5LCE2 | CATEGORY CODE: LH2004 | 25I6156 | REV. D