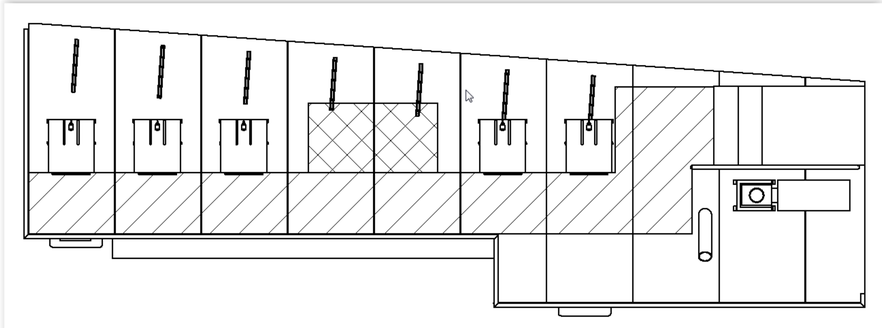
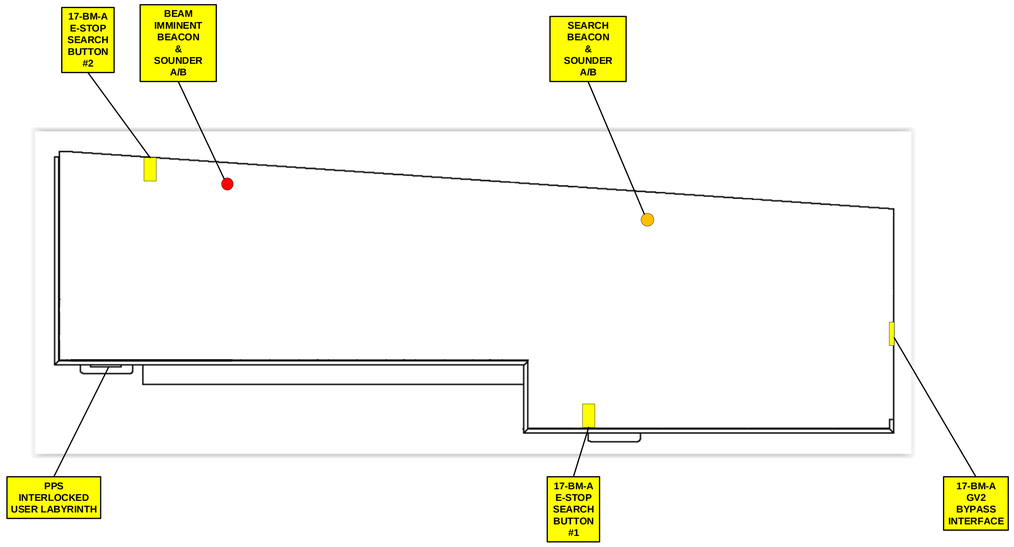
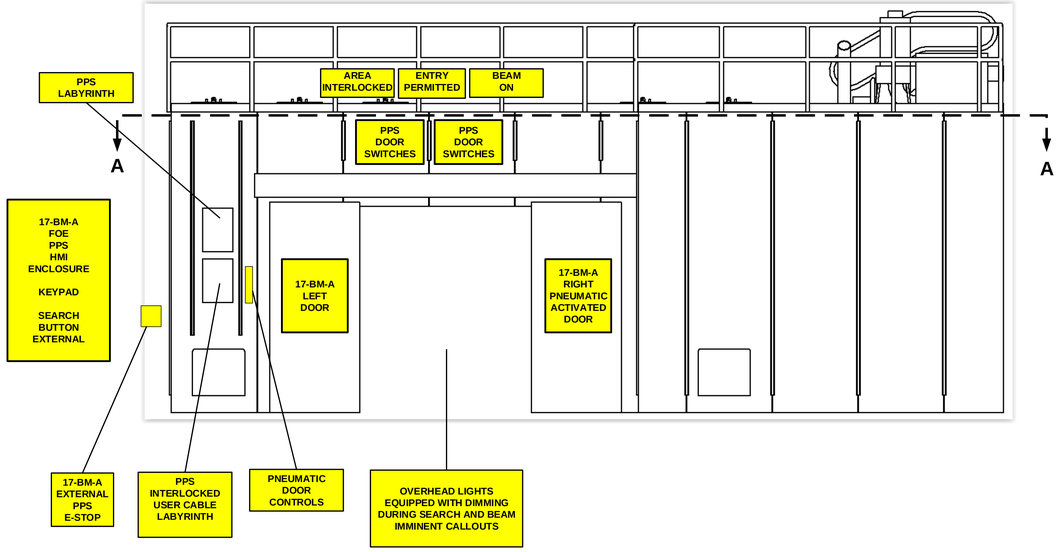
REV	DESCRIPTION	DATE	BY	CHK	APP
A	INITIAL RELEASE	06/08/2016	SEJ	JM	SB
B	REVISED PER ECN LT-ECN-018-1948	06/01/2018	SEJ	JM	SB

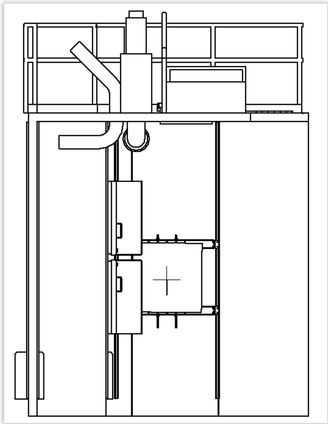


BEAM DIRECTION



SECTION A-A





BROOKHAVEN NATIONAL LABORATORY

BROOKHAVEN NATIONAL LABORATORY
BROOKHAVEN SCIENCE ASSOCIATES
UPTON, NEW YORK 11973
Exploring Life's Mysteries, Protecting its Future

NSLSII NATIONAL SYNCHROTRON LIGHT SOURCE II

UNLESS OTHERWISE SPECIFIED
INTEGER TOLERANCES ± .06
DECIMAL TOLERANCES
X ± .030
XX ± .015
XXX ± .010
ANGULAR TOLERANCE ± 0.5°
UNSPECIFIED RADII .02 MAX
120 BREAK SHARP CORNERS AND EDGES
FINISH MAX .03 MIN .005

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
DIMENSIONS IN [ ] ARE MILLIMETERS EQUIV. FOR REF. ONLY
INTERPRET DRAWING AS PER ANSI Y14.5 OR Y32.2

ESH&Q RISK LEVEL A-2

		DATE	OUTSTANDING ECN'S
DRWN BY	S. JARZABKOWSKI	6/08/2016	
CHK BY	J. MALLEY	6/09/2016	
ENG APP	S. BUDA	6/08/2016	
SUPV APP	G. GANETIS	6/10/2016	
QA APP	E. CHESWICK	6/09/2016	
ESH APP	R. LEE	6/09/2016	

JOB NUMBER | USED ON DWG. NO.

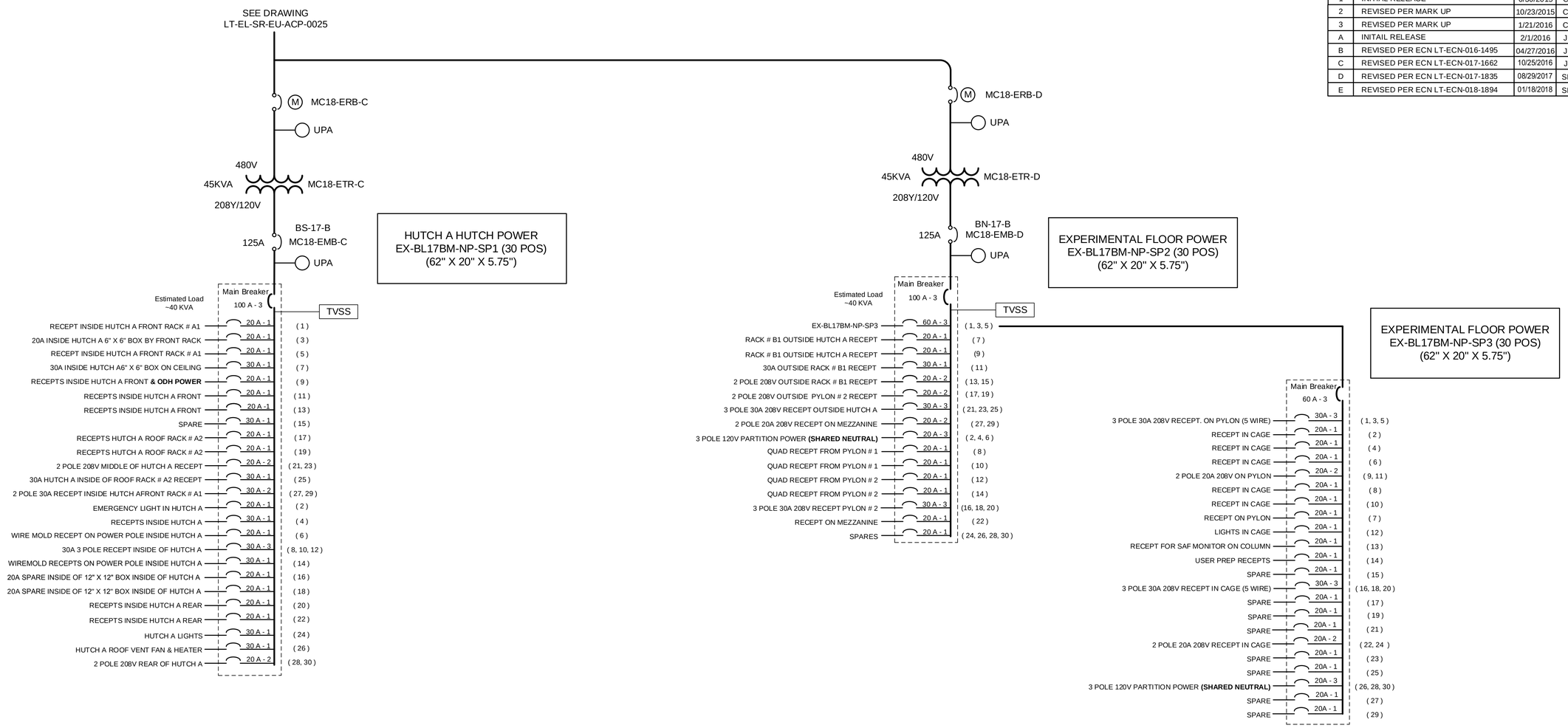
EQUIPMENT LAYOUT DRAWING, FOR 17-BM HUTCH (XFP)

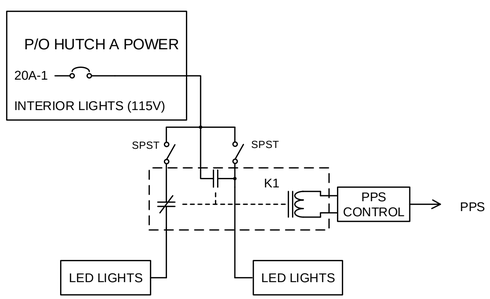
DRAWING DIRECTORY: LT-EL-BL-EU
DRAWING NUMBER: LT-EL-BL-EI-HCH-2170
REV: B

COMPUTER REPRODUCABLE | SCALE: N/A | SHEET 1 OF 1

LT-EL-BL-EI-HCH-2170

REV	DESCRIPTION	DATE	BY	CHECKED	APP
1	INITIAL RELEASE	6/30/2015	CG	JM	AB
2	REVISED PER MARK UP	10/23/2015	CG	JM	AB
3	REVISED PER MARK UP	1/21/2016	CG	JM	AB
A	INITAIL RELEASE	2/1/2016	JM	JM	AB
B	REVISED PER ECN LT-ECN-016-1495	04/27/2016	JM	JM	AB
C	REVISED PER ECN LT-ECN-017-1662	10/25/2016	JM	JM	AB
D	REVISED PER ECN LT-ECN-017-1835	08/29/2017	SEJ	JM	AB
E	REVISED PER ECN LT-ECN-018-1894	01/18/2018	SEJ	JM	AB





LEGEND:

DUP- Duplex Socket
Ext- outside hutch
EMB- Experimental Manual Breaker
ETR-Experimental Transformer
ERB-Experimental Remote Breaker
EX-BLxx_NP-SP- Experimental Beamline xx Normal Power Sub Panel x (Dirty)
Int- inside hutch
LSZH- Low Smoke Zero Halogen
MCx -Mezzanine Cell x
TVSS – Transient Voltage Surge Suppressor
UPA- Voltage Monitor
Zone- One of 3 designated areas in/outside hutch
5 Wire- 3Φ + Neutral + Ground

NOTES:

All Exposed wire inside hutch is to be LSZH
Circuit Breaker Designations: Current- # phases (Panel Position #)

JOB NUMBER	USED ON DWG. NO.

BROOKHAVEN NATIONAL LABORATORY

BROOKHAVEN NATIONAL LABORATORY
BROOKHAVEN SCIENCE ASSOCIATES
UPTON, NEW YORK 11973
Exploring Life's Mysteries, Protecting its Future

NSLS II NATIONAL SYNCHROTRON LIGHT SOURCE II

UNLESS OTHERWISE SPECIFIED
INTEGER TOLERANCES ± .06
DECIMAL TOLERANCES
.X ± .030
.XX ± .015
.XXX ± .010
ANGULAR TOLERANCE ± 0.5°
UNSPECIFIED RADII .02 MAX
125 BREAK SHARP CORNERS AND EDGES
FINISH MAX .03 MIN .005

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DIMENSIONS IN [ ] ARE MILLIMETERS EQUIV. FOR REF. ONLY
INTERPRET DRAWING AS PER ANSI Y14.5 OR Y32.2
ESH&Q RISK LEVEL A-2
OUTSTANDING ECN'S

		DATE
DRWN BY	S. JARZABKOWSKI	6/25/2015
CHK BY	J.MALLEY	6/30/2015
ENG APP	A. BOERNER	6/30/2015
SUPV APP	G.GANETIS	2/03/2016
QA APP	E.CHESWICK	2/03/2016
ESH APP	R. LEE	2/03/2016

ONE LINE DIAGRAM, AC POWER FOR XFP (X-RAY FOOTPRINTING OF BIO MACROMOL) BEAMLINE 17-BM

LT-EL-BL-EU — DRAWING DIRECTORY
LT-EL-BL-EU-ACP-0117 — DRAWING NUMBER
E — REV

COMPUTER REPRODUCIBLE
SCALE: N/A
SHEET 1 OF 1

LT-EL-BL-EU-ACP-0117