

Maine Medical Center East Tower Expansion XLS140-2 Fire Alarm System

22 Bramhall Street
Portland, ME 04102
Project No. USB-017267

HONEYWELL DRAWING INDEX

B A	Jun 27/19	1
	あるがは たんなし	
	Jan 23/19	7
B	Jun 27/19	7
В	Jun 27/19] .
A	Jan 23/19	7
A	Jan 23/19	7
A	Jan 23/19	7 (
A	Jan 23/19	
(B	Jun 27/19	7
S B	Jun 27/19	1
B	Jun 27/19	7
В	Jun 27/19	1
B	Jun 27/19	7
В	Jun 27/19	7
B	Jun 27/19	1
, B	Jun 27/19	1
} B	Jun 27/19	1
, B	Jun 27/19	1
B	Jun 27/19	1
В	Jun 27/19	7
B	Jun 27/19	7
(B	Jun 27/19	7
A	Jan 23/19	₹\
(B)	Jun 27/19	7'
∑ B	Jun 27/19	7
	B B B B B A B B B B B B B B B B B B B B	B Jun 27/19 A Jan 23/19 B Jun 27/19

DRAWING NO.	DRAWING TITLE	REVISION	DATE	
USB-017267-FA6.1	Ground Floor Fire Alarm Panel Wiring Diagram	А	Jan 23/19	1
USB-017267-FA6.2	Graphics Panel Wiring & Fire Alarm Annunciator	А	Jan 23/19	1
USB-017267-FA6.3	6th Floor Fire Alarm Panel Wiring Diagram	(B	Jun 27/19	7
USB-017267-FA6.4	7th Floor Fire Alarm Panel Wiring Diagram	} B	Jun 27/19	
USB-017267-FA6.5	Penthouse Fire Alarm Panel Wiring Diagram	B	Jun 27/19	
USB-017267-FA6.6	Booster Power Supply Wiring Diagram	Α	Jan 23/19	
USB-017267-FA7.1	Fire Alarm Layout Plan Fifth Floor — Sector 1	(B	Jun 27/19	7
USB-017267-FA7.2	Fire Alarm Layout Plan Fifth Floor — Sector 2	{ B	Jun 27/19	
USB-017267-FA7.3	Fire Alarm Layout Plan Sixth Floor — Sector 1	} B	Jun 27/19	
USB-017267-FA7.4	Fire Alarm Layout Plan Sixth Floor — Sector 2	{ B	Jun 27/19	
USB-017267-FA7.5	Fire Alarm Layout Plan Seventh Floor — Sector 1	} B	Jun 27/19	
USB-017267-FA7.6	Fire Alarm Layout Plan Seventh Floor — Sector 2	} B	Jun 27/19	
USB-017267-FA7.7	Fire Alarm Layout Plan Roof — Sector 1) B	Jun 27/19	
USB-017267-FA7.8	Fire Alarm Layout Plan Roof — Sector 2) B	Jun 27/19	
USB-017267-FA7.9	Fire Alarm Layout Plans Penthouse & Fire Command Center) B	Jun 27/19	
USB-017267-FA8.1	Battery Calculation Sheet 1 of 2	} B	Jun 27/19	
USB-017267-FA8.2	Battery Calculation Sheet 2 of 2	} B	Jun 27/19	
USB-017267-FA8.3	Line loss Calculation Sheet 1 of 5	B	Jun 27/19	
USB-017267-FA8.4	Line loss Calculation Sheet 2 of 5	} B	Jun 27/19	
USB-017267-FA8.5	Line loss Calculation Sheet 3 of 5	{ B	Jun 27/19	
USB-017267-FA8.6	Line loss Calculation Sheet 4 of 5	} B	Jun 27/19	
USB-017267-FA8.7	Line loss Calculation Sheet 5 of 5	B	Jun 27/19	
USB-017267-FA9.1	Sequence of Operations	Α	Jan 23/19	T

BUILDING SOLUTIONS

HONEYWELL OFFICE

Honeywell, Inc.

207 Larrabee Road Westbrook, Maine, 04092-5108

TEL: 207-854-0013

FAX: 207-854-0527

USB-017267

CONTRACT NUMBER:
SALES:
PROJECT MANAGEMENT:
COMMISSIONING:

Robert Pennabere Brice LeBlanc Eric Schrowang

DESIGN: DRAFTING: James Hodson
James Hodson

SYSTEMS PROVIDED

XLS140-2 Fire Alarm System

PROJECT DESIGN

Perkins + Will 225 Franklin Street, Suite 1100 Boston, ME 02110

TEL: 617-478-0300

FAX: 617-478-0321

DESIGN CONSULTANT

AKF Group LLC 99 Bedford Street, 2nd Floor Boston, ME 02111

TEL: 617-737-1111

FAX:

<u>CONTRACTOR</u>

ES Boulos Co. 45 Bradley Drive Westbrook, ME 04092

TEL: 207-464-3706

FAX: 207-464-1833

REV F		BY	QC	
REV E		BY	QC	
REV D		BY	QC	
REV C		BY	QC	
REV B	Re-Issued For Review	BY	QC	
Jun 27/19		JH	FX	
REV A	Issued For Review	BY	QC	
Jan 23/19		l JH l	Імір І	_

Title Sheet & Drawing Index

207 Larrabee Road Westbrook, Maine, 04092-5108

Maine Medical Center

East Tower Expansion
XLS140-2 Fire Alarm System
22 Bramhall Street Portland, ME 04102

DRAWING LICE 017267 FA0 1



GENERAL NOTES

- 1. ALL WIRING AND INSTALLATION MUST CONFORM WITH PROJECT SPECIFICATIONS, APPLICABLE CODE SUMMARIES AND REQUIREMENTS ADOPTED BY THE CITY.
- 2. SMOKE DETECTORS SHOULD NOT BE LOCATED IN DIRECT AIRFLOW, NOR CLOSER THAN 3 FEET (1 m) FROM AN AIR SUPPLY DIFFUSER OR RETURN AIR OPENING PER NFPA 72 (CHAPTER A.5.7.4.1) 2007 EDITION.
- 3. ALL SMOKE DETECTORS AND INITIATING DEVICES SHALL BE INSTALLED MINIMUM 3 FEET AWAY FROM ELECTRONIC BALLASTS (LIGHTING FIXTURES).
- 4. WHEN INSTALLING FIRE ALARM DEVICES, TERMINAL POLARITY MUST BE OBSERVED.
- 5. ALL NOTIFICATION CIRCUIT WIRES MUST BE SUPERVISED. HENCE, NO PARALLEL BRANCHING OF WIRES IS PERMISSIBLE (T—TAPPING). ALL AUDIBLE SIGNALING DEVICES SHALL PRODUCE A DISTINCTIVE THREE—PULSE TEMPORAL PATTERN.
- 6. DO NOT INSTALL ADDRESSABLE DEVICES PRIOR TO COORDINATION WITH A HONEYWELL INSTALLATION REPRESENTATIVE.
- 7. ALL 24 VDC WIRE TO BE INSTALLED IN DEDICATED WIRE RUNS SEPARATE FROM 120 VAC WIRING, IN ACCORDANCE WITH THE CURRENT NATIONAL AND STATE ELECTRICAL CODES.
- 8. CONDUIT (WHERE REQUIRED) SIZING TO BE DETERMINED BY THE ELECTRICAL CONTRACTOR AND SHALL CONFORM TO CONDUIT FILL CAPACITIES AS PER REQUIREMENTS OF CURRENT EDITIONS OF NATIONAL ELECTRICAL CODES.
- 9. DO NOT APPLY 120 VAC POWER TO CONTROL PANEL UNTIL A HONEYWELL SERVICE TECHNICIAN HAS INSPECTED ALL SYSTEM WIRING CONNECTIONS AND HAS APPROVED THE SYSTEM TO BE TURNED ON.
- 10. PLUG-IN TYPE DETECTORS REQUIRE A 4" SQUARE X 1-1/2" DEEP ELECTRICAL BOX OR A 3" OR 4" OCTAGONAL X 1-1/2" DEEP ELECTRICAL BOX. REFER TO DETAIL DRAWINGS FOR DEVICE WIRING & MOUNTING CONDITIONS.
- 11. 120 VAC INPUT CONNECTIONS TO THE FIRE ALARM CONTROL PANEL SHALL BE ON DEDICATED BRANCH CIRCUIT(S). THE CIRCUIT(S) AND CONNECTIONS SHALL BE MECHANICALLY PROTECTED. CIRCUIT DISCONNECTION SHALL HAVE A RED MARKING & SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL AND SHALL BE IDENTIFIED AS FIRE ALARM CIRCUIT CONTROL. LOCATION OF THE CIRCUIT DISCONNECTION BREAKER SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT.
- 12. INSTALLATION MATERIALS SUCH AS CONDUIT, FITTINGS, JUNCTION BOXES, TERMINAL CABINETS, PULL BOXES, HANGERS, ETC. TO BE SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. ALL WIRING IS TO BE FROM DEVICE TERMINAL TO DEVICE TERMINAL. SPLICES AND WIRE NUTS ARE NOT ACCEPTABLE.
- 13. ANY DEVIATION FROM THE DESIGN AND LOCATION OF EQUIPMENT SHOWN MUST FIRST HAVE A WRITTEN APPROVAL FROM HONEYWELL.

 ANY DEVIATION FROM DESIGN MUST ALSO BE INDICATED ON THE HONEYWELL SHOP DRAWINGS AND RETURNED TO HONEYWELL AT TIME OF JOB COMPLETION.
- 14. ALL SMOKE DETECTORS SHALL BE PROTECTED FROM DUST AND DEBRIS DURING CONSTRUCTION. SMOKE SENSING DETECTORS SHALL NOT BE INSTALLED UNTIL AFTER THE CONSTRUCTION CLEANUP OF ALL TRADES IS COMPLETE PER NFPA 72 (CHAPTER 5.7.1.11) 2007 EDITION.

 EXCEPTION: WHERE REQUIRED BY THE AUTHORITY HAVING JURISDICTION FOR PROTECTION DURING CONSTRUCTION. DETECTORS THAT HAVE BEEN INSTALLED DURING CONSTRUCTION AND FOUND TO HAVE A SENSITIVITY OUTSIDE THE LISTED AND MARKED SENSITIVITY RANGE SHALL BE CLEANED OR REPLACED AT AN ADDITIONAL COST TO THE CONTRACTOR.

CONTRACTOR: ES Boulos Co.

HONEYWELL DESIGN: James Hodson

15. ALL FIRE ALARM WIRING SHOULD BE RUN IN CONDUIT.

SYSTEM DESIGN: AKF Group LLC

XLS - F.A. SYSTEM WIRING GUIDELINES

- 1. ALL WIRING MUST COMPLY WITH LOCAL AND CURRENT EDITION OF THE ELECTRICAL CODE. ALL WIRING MUST BE DONE AS DESCRIBED NOTES 2 & 6 BELOW, TO OBTAIN SAFE AND PROPER SYSTEM OPERATION.
- 2. CONNECT EARTH GROUND TO THE ENCLOSURES PROPERLY; SEE LATEST EDITION OF NATIONAL ELECTRICAL CODES FOR APPROVED METHODS. CONDUIT GROUND IS NOT ADEQUATE.
- 3. SEPARATE ALL WIRING FOR INITIATING AND INDICATING DEVICES (SLC & NAC CIRCUITS) FROM ALL OTHER WIRING IN THE ENCLOSURES.
- 4. (WHERE USED) INSULATE ALL CABLE DRAIN WIRES FROM ANY CONDUIT OR OTHER EARTH GROUNDED ELECTRICAL BOX.
- 5. (WHERE USED) CONNECT SHIELD CABLE WIRE ONLY AT SPECIFIED LOCATION INSIDE OF ENCLOSURE (IF APPLICABLE).
- 6. EARTH GROUND ALL CONDUIT RUNS THROUGHOUT THE INSTALLATION.
- 7. ALL 110/120 VAC CIRCUITS TO BE INSTALLED IN DEDICATED CONDUIT.
- 8. ALL INITIATING CIRCUITS ARE RATED POWER LIMITED AND SHOULD BE WIRED IN ACCORDANCE WITH APPLICABLE CODES.
- 9. UNDERGROUND WIRING IS PERMISSIBLE ONLY IF ALL NEC WIRING REQUIREMENTS ARE MET.
- 10. OVERHEAD OR EXTERIOR WIRING IS NOT RECOMMENDED.

WIRING REQUIREMENTS

WIRING IS TO BE INSTALLED POINT-TO-POINT WITH NO SPLICING.

PLENUM CABLE VS. NON-PLENUM

HONEYWELL INSTALLATION: Brice LeBlanc

THE NEC RECOGNIZES 3 TYPES OF POWER LIMITED FIRE ALARM CABLING:

FPL — THIS IS A GENERAL USE POWER LIMITED FIRE ALARM CABLE. IT CANNOT BE USED IN A PLENUM SPACE OR FOR RISERS (CABLING BETWEEN FLOORS). CABLE MUST BE IN CONDUIT.

FPLR — THIS IS A POWER LIMITED RISER RATED CABLE THAT CAN BE USED FOR GENERAL PURPOSES OR BETWEEN FLOORS. IT CANNOT BE USED IN A PLENUM SPACE, CABLE MUST BE IN CONDUIT.

FPLP — THIS IS A POWER LIMITED CABLE THAT CAN BE USED IN A PLENUM, RISER OR FOR GENERAL PURPOSE.

A PLENUM IS ANY AREA USED TO CONDUCT ENVIRONMENTAL AIR. PLENUM SPACES CAN BE DUCTWORK, THE SPACE ABOVE A DROP CEILING OR BELOW A RAISED FLOOR. BECAUSE THESE SPACES ARE BEING USED FOR THE AIR HANDLING SYSTEM, THERE ARE STRICT RULES THAT MUST BE FOLLOWED TO REDUCE THE RISK OF INTRODUCING TOXIC FUMES IN THE EVENT OF A FIRE. SINCE FIRE ALARM CABLING IS OFTEN INSTALLED EXPOSED, WITHOUT CONDUIT, ABOVE DROP CEILINGS, THE CABLING MUST BE RATED FOR USE IN A PLENUM SPACE.

KEV F		BX	General Notes
REV E		BY	
REV D		BY	Honeywell ExpertISE (
REV C		BY	207 Larrabee Road Westbrook, Maine, 04092-510
			Maine Medical Center
REV B		BY	East Tower Expansion
			XLS140-2 Fire Alarm System
REV A	Issued For Review	BY	22 Bramhall Street Portland, ME 04102
Jan 23/19		JH	DRAWING LICE 017007 FACO
			DRAWING USB-017267-FA0.2

SYMBOL	DESCRIPTION	NOTES
FACPx	FIRE ALARM CONTROL PANEL	'X' DENOTES PANEL NUMBER
FAGAx	FIRE ALARM GRAPHIC ANNUNCIATOR	'X' DENOTES GRAPHIC ANNUNCIATOR NUMBER
FAAx	FIRE ALARM REMOTE ANNUNCIATOR	'X' DENOTES ANNUNCIATOR NUMBER
FATC	FIRE ALARM TERMINAL CABINET (BY OTHERS)	'X' DENOTES PANEL NUMBER
BPSx	BOOSTER POWER SUPPLY	'X' DENOTES POWER SUPPLY NUMBER
F	MANUAL PULL STATION	_
$\langle S \rangle_{P}$	SMOKE DETECTOR, PHOTOELECTRIC	-
 S	SMOKE DETECTOR FOR DUCT	_
▼ RTS	REMOTE ALARM INDICATING AND TEST SWITCH	_
⋉ RI	REMOTE ALARM INDICATING LED	_
(AIM)	MONITOR MODULE	_
AIM) ₂	DUAL MONITOR MODULE	
AIM 10	TEN-INPUT MONITOR MODULE	_
(AOM) RM	RELAY CONTROL MODULE	-
(AOM) CM	SUPERVISED CONTROL MODULE	_
⟨TM⟩	FIREFIGHTER TELEPHONE CONTROL MODULE	_
C	FIRE / EMERGENCY TELEPHONE STATION, 'H' FOR HANDSET	-
FSD	FIRE SMOKE DAMPER	(BY OTHERS)
R	INTERPOSING RELAY	_
WF	FLOW SWITCH	(BY OTHERS)
TS	TAMPER SWITCH	(BY OTHERS)
PS	PRESSURE SWITCH	(BY OTHERS)
DH	DOOR HOLDER	(BY OTHERS)
SW	SPEAKER, WALL MOUNTED	"W" DENOTES WATTAGE TAPPING
CD W	SPEAKER/STROBE, WALL MOUNTED	"CD" DENOTES CANDELA SETTING "W" DENOTES WATTAGE TAPPING
CD X	STROBE, WALL MOUNTED	"CD" DENOTES CANDELA SETTING

1) REFER TO THE BILL OF MATERIAL ON DRAWING FAO.4 FOR EXACT PART NUMBERS.

2) NOT ALL SYMBOLS MAY BE USED.

PROJECT DESIGN: Perkins + Will

Reviewed for Code Compliance
Permitting and Inspections Department
Approved with Conditions

11/19/2019

FURTHER SYMBOL NOMENCLATURE

CONTRACTOR: ES Boulos Co.

XP - EXPLOSION PROOF
WP - WEATHER PROOF

*SP E - ELEVATOR CONTROL IB - ISOLATOR BASE

C — CONVENTIONAL DEVICE

EM — EMERGENCY LIGHTING

TH SOLID TWISTED SHIELDED WIRE COLOR TO BE: BLACK / BI UF (PAICE 443754BB COLORS) 3-CONDUCTOR, #14 AWG C SOLID THEN 3-CONDUCTOR, #14 AWG D SOLID THEN NOTES NOTES NOTES THE COLOR TO BE: BLACK / BI UF (PAICE 443754BB COLORS) NOTES NOTES THE COLOR TO BE: BLACK / BI UF (PAICE 443754BB COLORS) NOTES NOTES THE CONDUCTOR, #14 AWG DO SOLID THEN NOTES NOTE		\	+	WIRE COLOR TO YELLOW / PURP (PAIGE 443754P	BE: LE	
C SOLID THHN D 2-CONDUCTOR, #14 AWG NOTES NOTES VICE ADDRESSING (SPEAKER) G OF SPEAKER SPEAKER DAA1-1.02 AMP (DAAx)# DE# ON CCT. S POWERED BY DAA. S SHALL BE WIRED AS CLASS 'A'.		1H		SOLID TWISTED S WIRE COLOR TO BLACK / BLUE	SHIELDED BE:	
NOTES		C			#12 AWG	
SPEAKER DAA1-1.02 AMP (DAAX)# PUT CIRCUIT# CE# ON CCT. S POWERED BY DAA. S SHALL BE WIRED AS CLASS 'A'.		D -	~	2—CONDUCTOR, SOLID THHN	#14 AWG	
SPEAKER DAA1-1.02 AMP (DAAx)# PUT CIRCUIT# CE# ON CCT. S POWERED BY DAA. S SHALL BE WIRED AS CLASS 'A'.					NOT	ES
SPEAKER DAA1-1.02 AMP (DAAx)# PUT CIRCUIT# CE# ON CCT. S POWERED BY DAA. S SHALL BE WIRED AS CLASS 'A'.	WIGE ADDDECCING (CDEAKED)					
DAA1-1.02 AMP (DAAx)# PUT CIRCUIT# CE# ON CCT. S POWERED BY DAA. S SHALL BE WIRED AS CLASS 'A'.						
PUT CIRCUIT# ————————————————————————————————————	SPEAKER ————————————————————————————————————					
CE# ON CCT. S POWERED BY DAA. S SHALL BE WIRED AS CLASS 'A'.	AMP (DAAx)#					
S SHALL BE WIRED AS CLASS 'A'.						
HONEYWELL DESIGN: James Hodson HONEYWELL INSTALLATION: Brice LeBlanc						
	HONEYWELL DESIGN: James Hodson		HONEYWEL	L INSTALLATION:	Brice LeBla	nc

	XI	S SYSTEM WIRING	SCHEDULE	XLS SYSTEM WIRING SCHEDULE			
	CABLE DESIGNATION	RECOMMENDED WIRE TYPE	TYPICAL CABLE USAGE	CABLE DESIGNATION	RECOMMENDED WIRE TYPE	TYPICAL CABLE USAGE	
	1A1 	2-CONDUCTOR, #16 AWG TWISTED CABLE WIRE COLOR TO BE: ORANGE / YELLOW (PAIGE 443712XX COLORS)	FIRE ALARM ADDRESSABLE INITIATING DEVICES (SLC) STANDARD FLOOR CIRCUIT WIRING	E	2-CONDUCTOR, #16 AWG SOLID TWISTED CABLE	MISC. PANEL WIRING	
	1A2 	(CI) RATED CABLE (RADIC DURALINE)	FIRE ALARM ADDRESSABLE INITIATING DEVICES (SLC) FOR FLOOR CHANGE PENETRATION	G }	2-CONDUCTOR, #16 AWG SOLID TWISTED CABLE	CONVENTIONAL INITIATING DEVICES - PREACTION SYSTEM - WATERFLOW SWITCH - TAMPER SWITCH	
	1B1	NAC#1 - SOLID THHN 2-CONDUCTOR, #14 AWG WIRE COLOR TO BE: YELLOW / BROWN (PAIGE 443754B COLORS)	NOTIFICATION APPLIANCE CIRCUITS (NAC): - STROBES - SPEAKER STROBES	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	4-CONDUCTOR, #24 AWG 2 PR TWISTED SHIELDED	RS232 DATA COMMUNICATIONS	
B	1B2 → →	NAC#2 - SOLID THHN 2-CONDUCTOR, #14 AWG WIRE COLOR TO BE: YELLOW / RED (PAIGE 443754R COLORS)	NOTIFICATION APPLIANCE CIRCUITS (NAC): - STROBES - SPEAKER STROBES	L	2-CONDUCTOR, #16 AWG SOLID TWISTED SHIELDED	LOW LEVEL AUDIO - REMOTE MICROPHONE - PRE-AMPLIFIER SIGNAL - FIRE PHONE RISER/CIRCUIT	
	1B3	NAC#3 - SOLID THHN 2-CONDUCTOR, #14 AWG WIRE COLOR TO BE: YELLOW / ORANGE (PAIGE 443754N COLORS)	NOTIFICATION APPLIANCE CIRCUITS (NAC): — STROBES — SPEAKER STROBES	M 	2-CONDUCTOR, #18 AWG SOLID TWISTED CABLE	XLS-NET NETWORK COMMUNICATIONS	
	1B4	NAC#4 - SOLID THHN 2-CONDUCTOR, #14 AWG WIRE COLOR TO BE: YELLOW / PURPLE (PAIGE 443754P COLORS)	NOTIFICATION APPLIANCE CIRCUITS (NAC): - STROBES - SPEAKER STROBES	N	2-CONDUCTOR, #16 AWG SOLID TWISTED CABLE	DAL NETWORK COMMUNICATIONS - DIGITAL AUDIO LOOP	
	1H	2-CONDUCTOR, #16 AWG SOLID TWISTED SHIELDED WIRE COLOR TO BE: BLACK / BLUE (PAIGE 443754BB COLORS)	70VAC AUDIO NOTIFICATION APPLIANCE CIRCUIT	R	2-CONDUCTOR, #18 AWG SOLID TWISTED CABLE	RS-485 DATA COMMUNICATIONS - FIRE ALARM ANNUNCIATOR	
	C	3-CONDUCTOR, #12 AWG SOLID THHN	120VAC POWER CIRCUIT	X	2-CONDUCTOR, #18 AWG SOLID TWISTED CABLE	"NUP" NETWORK COMMUNICATIONS INTERFACE WIRING: — FIRE NETWORK ADAPTER.	
	D	2-CONDUCTOR, #14 AWG SOLID THHN	24 VDC POWER - FIRE ALARM ANNUNCIATOR - DOOR HOLDERS (BY OTHERS) - FSD CONTROL RELAYS	\	2-CONDUCTOR, #14 AWG SOLID THHN	MECHANICAL EQUIPMENT INTERFACE - FAN SHUT DOWN - FIRE CURTAIN - ELEVATOR SHUNT	

NOTES: NOT ALL CABLE TYPES MAY APPLY TO THIS PROJECT.

DRAFTER: James Hodson

	DEVICE ADDRESSING KEY	
INTELLIGENT DEVICE ADDRESSING	NOTIFICATION DEVICE ADDRESSING (STROBE)	NOTIFICATION DEVICE ADDRESSING (SPEAKER)
F	CANDELA SETTING OF STROBE (REFER TO FLOOR PLANS FOR SETTING)	WATTAGE SETTING OF SPEAKER ————
P6L2.M007 PANEL NODE#	FIRE ALARM STROBE BPS2-3.02	FIRE ALARM SPEAKER ————————————————————————————————————
SIGNALING LINE CCT.# ————————————————————————————————————	BOOSTER POWER SUPPLY (BPSx)#	DIGITAL AUDIO AMP (DAAx)#
DETECTOD ADDDECCES DANCE EDOM DOOL DIEG	BPSx NAC OUTPUT CIRCUIT# — DEVICE SEQUENCE# ON NAC CCT.	DAAX OUTPUT CIRCUIT# ————————————————————————————————————
 DETECTOR ADDRESSES RANGE FROM D001-D159 MODULE ADDRESSES RANGE FROM M001-M159 SLC CIRCUITS SHALL BE WIRED AS "CLASS A" 	STROBE CIRCUITS POWERED BY BPSSTROBE CIRCUITS SHALL BE WIRED AS "CLASS A"	SPEAKER CIRCUITS POWERED BY DAA.SPEAKER CIRCUITS SHALL BE WIRED AS CLASS 'A'.

SYSTEM DESIGN: AKF Group LLC

REV F

REV D

REV D

REV C

REV B

Jun 27/19

REV A

Jan 23/19

REV F

BY

Device Legend & Cable Guide

BY

Device Legend & Cable Guide

ExpertISE ©

207 Larrabee Road Westbrook, Maine, 04092-5108

Maine Medical Center

East Tower Expansion

XLS140-2 Fire Alarm System

22 Bramhall Street Portland, ME 04102

DRAWING

NUMBER USB-017267-FA0.3



BILL OF MATERIAL

P-1 PANEL	QUANTITY	PART NO.	PART DESCRIPTION	MANUFACTURER
O1 1 1/111LL	1	SBB-C4	BACKBOX ASSEMBLY, 3 TIERS (C SIZE), BLACK	HONEYWELL
	1	XLS-ADDR-C4	3 TIER SIZED DOOR ASSEMBLY, FOR CA-2 CHASSIS, BLACK W/ WINDOWS	HONEYWELL
	1	DPA-2B	DRESS PANEL, USED WITH THE CA-2 CHASSIS	HONEYWELL
	1	CA-2	2 TIER CHASSIS FOR MOUNTING XLS140-CPU2, XLS-DVC, PHONE, & INCL. CMIC-1	HONEYWELL
	1	XLS140-CPU2	CENTRAL PROCESSOR UNIT (W/ CHS2-M2 CHASSIS)	HONEYWELL
	1	XLS-NCA2	NETWORK CONTROL ANNUNCIATOR	HONEYWELL
	1	XLS-DVC-EM	DIGITAL VOICE COMMAND	HONEYWELL
	1	DVC-KD	KEYPAD FOR LOCAL ANNUNCIATION AND CONTROLS	HONEYWELL
	1	TELH-1	FIREFIGHTER?S TELEPHONE HANDSET	HONEYWELL
	3	NCM-W	NETWORK CONTROL MODULE, WIRE	HONEYWELL
	1	DP-1B	BLANK DRESS PANEL, COVERS ONE CAB-4 TIER	HONEYWELL
	1	BP2-4	BATTERY DRESS PLATE FOR CAB-4 CABINET	HONEYWELL
	2	DTK-120HW	120V TRANSIENT VOLTAGE SURGE PROTECTOR	HONEYWELL
	1	EQBB-C4 EQDR-C4	BACKBOX ASSEMBLY, 3 TIERS (C SIZE), BLACK	HONEYWELL
	1		3 TIER VENTED DOOR ASSEMBLY, BLACK	HONEYWELL
	2	DAA2-5070 BDA-70V	DIGITAL AUDIO AMPLIFIER (50 W, 70 VRMS) BACKUP DIGITAL AUDIO AMPLIFIER, 70.7 VRMS	HONEYWELL HONEYWELL
	1	XLS-LBB	BATTERY CABINET HOUSING ASSEMBLY	HONEYWELL
	2	PS-12350	12V 35 AH BATTERY W/ UNIVERSAL TERMINALS	POWER SONIC
	2	PS-12750	12V 75 AH BATTERY W/ UNIVERSAL TERMINALS	POWER SONIC
ACE AGE GRAPHIC PANEL		13 12/00	127 70 AT BATTERT MY CHITCHOAL TERMINATES	I OWEN JOINIO
JE TOE OIVE INO LANEL	1	LDM-32	LAMP DRIVER ANNUNCIATOR CONTROL MODULE	HONEYWELL
	1	LDM-CBL48	48" LAMP DRIVER ANNUNCIATOR LED CABLE	HONEYWELL
	1	SCS-8L	SMOKE CONTROL LAMP DRIVER	HONEYWELL
	1	SCE-8L	SMOKE CONTROL LAMP DRIVER EXPANDER	HONEYWELL
	1	SCS8L-CBL48	48" LAMP DRIVER SMOKE CONTROL CABLE ASSEMBLY	HONEYWELL
NUNCIATOR (FAA)				
	1	XLS-NCA2	NETWORK CONTROL ANNUNCIATOR	HONEYWELL
	1	CHS-2D	NCA2 CHASSIS FOR USE WITH XLS-ABS-2D	HONEYWELL
	1	XLS-ABS-2D	SURFACE MOUNT ANNUNCIATOR BACKBOX, BLACK	HONEYWELL
D 0 B445	11	NCM-W	NETWORK CONTROL MODULE, WIRE	HONEYWELL
CP-6 PANEL		CDD 04	DAOVDOV ACCENDIN AZTIERO (O OZE) BLACK	HOME
	1	SBB-C4	BACKBOX ASSEMBLY, 43TIERS (C SIZE), BLACK	HONEYWELL
	1	XLS-DR-C4	3 TIER DOOR ASSEMBLY, BLACK W/ WINDOWS	HONEYWELL
	1	DP-DISP2	DRESS PLATE FOR XLS140-2 FACP	HONEYWELL
	1	XLS140-CPU2 KDM-R2	CENTRAL PROCESSOR UNIT (W/ CHS2-M2 CHASSIS)	HONEYWELL HONEYWELL
	1	NCM-W	80 CHARACTER DISPLAY WITH KEYBOARD NETWORK CONTROL MODULE, WIRE	HONEYWELL
	2	BMP-1	BLANK PLATE FOR EMPTY DP-DISP SLOTS	HONEYWELL
	2	DP-1B	BLANK PLATE FOR EMPTY DP-DISP SLOTS BLANK DRESS PANEL, COVERS ONE CAB-4 TIER	HONEYWELL
	1	EQBB-C4	BACKBOX ASSEMBLY, 3 TIERS (C SIZE), BLACK	HONEYWELL
	1	EQDR-C4	3 TIER VENTED DOOR ASSEMBLY, BLACK	HONEYWELL
	2	DAA2-5070	DIGITAL AUDIO AMPLIFIER (50 W, 70 VRMS)	HONEYWELL
	2	BDA-70V	BACKUP DIGITAL AUDIO AMPLIFIER, 70.7 VRMS	HONEYWELL
	1	XLS-LBB	BATTERY CABINET HOUSING ASSEMBLY	HONEYWELL
	2	PS-12350	12V 35 AH BATTERY W/ UNIVERSAL TERMINALS	POWER SONIC
	2	(PS-12260	12V 26 AH BATTERY W/ UNIVERSAL TERMINALS	POWER SONIC
		- -		
CP-7/8 PANEL				
CP-7/8 PANEL	2	SBB-C4	BACKBOX ASSEMBLY, 3 TIERS (C SIZE), BLACK	HONEYWELL
CP-7/8 PANEL	2	SBB-C4 XLS-DR-C4	BACKBOX ASSEMBLY, 3 TIERS (C SIZE), BLACK 3 TIER DOOR ASSEMBLY, BLACK W/ WINDOWS	HONEYWELL HONEYWELL
CP-7/8 PANEL	2 2	SBB-C4 XLS-DR-C4 VP-2B	BACKBOX ASSEMBLY, 3 TIERS (C SIZE), BLACK 3 TIER DOOR ASSEMBLY, BLACK W/ WINDOWS VENT PLATE FOR COVERING THE SMALL GAP AT THE TOP OF THE CABINET	HONEYWELL HONEYWELL HONEYWELL
CP-7/8 PANEL	2 2 2	SBB-C4 XLS-DR-C4 VP-2B DP-1B	BACKBOX ASSEMBLY, 3 TIERS (C SIZE), BLACK 3 TIER DOOR ASSEMBLY, BLACK W/ WINDOWS VENT PLATE FOR COVERING THE SMALL GAP AT THE TOP OF THE CABINET BLANK DRESS PANEL, COVERS ONE CAB-4 TIER	HONEYWELL HONEYWELL HONEYWELL HONEYWELL
CP-7/8 PANEL	2 2 2 2	SBB-C4 XLS-DR-C4 VP-2B DP-1B DAA2-5070	BACKBOX ASSEMBLY, 3 TIERS (C SIZE), BLACK 3 TIER DOOR ASSEMBLY, BLACK W/ WINDOWS VENT PLATE FOR COVERING THE SMALL GAP AT THE TOP OF THE CABINET BLANK DRESS PANEL, COVERS ONE CAB-4 TIER DIGITAL AUDIO AMPLIFIER (50 W, 70 VRMS)	HONEYWELL HONEYWELL HONEYWELL HONEYWELL HONEYWELL
CP-7/8 PANEL	2 2 2 2 2 2	SBB-C4 XLS-DR-C4 VP-2B DP-1B DAA2-5070 BDA-70V	BACKBOX ASSEMBLY, 3 TIERS (C SIZE), BLACK 3 TIER DOOR ASSEMBLY, BLACK W/ WINDOWS VENT PLATE FOR COVERING THE SMALL GAP AT THE TOP OF THE CABINET BLANK DRESS PANEL, COVERS ONE CAB-4 TIER DIGITAL AUDIO AMPLIFIER (50 W, 70 VRMS) BACKUP DIGITAL AUDIO AMPLIFIER, 70.7 VRMS	HONEYWELL HONEYWELL HONEYWELL HONEYWELL HONEYWELL HONEYWELL
CP-7/8 PANEL	2 2 2 2 2 2 2	SBB-C4 XLS-DR-C4 VP-2B DP-1B DAA2-5070 BDA-70V ADP2-640	BACKBOX ASSEMBLY, 3 TIERS (C SIZE), BLACK 3 TIER DOOR ASSEMBLY, BLACK W/ WINDOWS VENT PLATE FOR COVERING THE SMALL GAP AT THE TOP OF THE CABINET BLANK DRESS PANEL, COVERS ONE CAB-4 TIER DIGITAL AUDIO AMPLIFIER (50 W, 70 VRMS) BACKUP DIGITAL AUDIO AMPLIFIER, 70.7 VRMS DRESS PANEL USED W/ NCA2/XLS140-CPU2 IN LOWER ROW	HONEYWELL HONEYWELL HONEYWELL HONEYWELL HONEYWELL HONEYWELL HONEYWELL
CP-7/8 PANEL	2 2 2 2 2 2 2 2	SBB-C4 XLS-DR-C4 VP-2B DP-1B DAA2-5070 BDA-70V ADP2-640 XLS140-CPU2	BACKBOX ASSEMBLY, 3 TIERS (C SIZE), BLACK 3 TIER DOOR ASSEMBLY, BLACK W/ WINDOWS VENT PLATE FOR COVERING THE SMALL GAP AT THE TOP OF THE CABINET BLANK DRESS PANEL, COVERS ONE CAB-4 TIER DIGITAL AUDIO AMPLIFIER (50 W, 70 VRMS) BACKUP DIGITAL AUDIO AMPLIFIER, 70.7 VRMS DRESS PANEL USED W/ NCA2/XLS140-CPU2 IN LOWER ROW CENTRAL PROCESSOR UNIT (W/ CHS2-M2 CHASSIS)	HONEYWELL HONEYWELL HONEYWELL HONEYWELL HONEYWELL HONEYWELL HONEYWELL HONEYWELL HONEYWELL
CP-7/8 PANEL	2 2 2 2 2 2 2 2 2	SBB-C4 XLS-DR-C4 VP-2B DP-1B DAA2-5070 BDA-70V ADP2-640 XLS140-CPU2 KDM-R2	BACKBOX ASSEMBLY, 3 TIERS (C SIZE), BLACK 3 TIER DOOR ASSEMBLY, BLACK W/ WINDOWS VENT PLATE FOR COVERING THE SMALL GAP AT THE TOP OF THE CABINET BLANK DRESS PANEL, COVERS ONE CAB-4 TIER DIGITAL AUDIO AMPLIFIER (50 W, 70 VRMS) BACKUP DIGITAL AUDIO AMPLIFIER, 70.7 VRMS DRESS PANEL USED W/ NCA2/XLS140-CPU2 IN LOWER ROW CENTRAL PROCESSOR UNIT (W/ CHS2-M2 CHASSIS) 80 CHARACTER DISPLAY WITH KEYBOARD	HONEYWELL
CP-7/8 PANEL	2 2 2 2 2 2 2 2 2 4	SBB-C4 XLS-DR-C4 VP-2B DP-1B DAA2-5070 BDA-70V ADP2-640 XLS140-CPU2 KDM-R2 BMP-1	BACKBOX ASSEMBLY, 3 TIERS (C SIZE), BLACK 3 TIER DOOR ASSEMBLY, BLACK W/ WINDOWS VENT PLATE FOR COVERING THE SMALL GAP AT THE TOP OF THE CABINET BLANK DRESS PANEL, COVERS ONE CAB-4 TIER DIGITAL AUDIO AMPLIFIER (50 W, 70 VRMS) BACKUP DIGITAL AUDIO AMPLIFIER, 70.7 VRMS DRESS PANEL USED W/ NCA2/XLS140-CPU2 IN LOWER ROW CENTRAL PROCESSOR UNIT (W/ CHS2-M2 CHASSIS) 80 CHARACTER DISPLAY WITH KEYBOARD BLANK PLATE FOR EMPTY DP-DISP SLOTS	HONEYWELL
CP-7/8 PANEL	2 2 2 2 2 2 2 2 2 4	SBB-C4 XLS-DR-C4 VP-2B DP-1B DAA2-5070 BDA-70V ADP2-640 XLS140-CPU2 KDM-R2 BMP-1 NCM-W	BACKBOX ASSEMBLY, 3 TIERS (C SIZE), BLACK 3 TIER DOOR ASSEMBLY, BLACK W/ WINDOWS VENT PLATE FOR COVERING THE SMALL GAP AT THE TOP OF THE CABINET BLANK DRESS PANEL, COVERS ONE CAB-4 TIER DIGITAL AUDIO AMPLIFIER (50 W, 70 VRMS) BACKUP DIGITAL AUDIO AMPLIFIER, 70.7 VRMS DRESS PANEL USED W/ NCA2/XLS140-CPU2 IN LOWER ROW CENTRAL PROCESSOR UNIT (W/ CHS2-M2 CHASSIS) 80 CHARACTER DISPLAY WITH KEYBOARD BLANK PLATE FOR EMPTY DP-DISP SLOTS NETWORK CONTROL MODULE, WIRE	HONEYWELL
CP-7/8 PANEL	2 2 2 2 2 2 2 2 2 4	SBB-C4 XLS-DR-C4 VP-2B DP-1B DAA2-5070 BDA-70V ADP2-640 XLS140-CPU2 KDM-R2 BMP-1 NCM-W XLS-LBB	BACKBOX ASSEMBLY, 3 TIERS (C SIZE), BLACK 3 TIER DOOR ASSEMBLY, BLACK W/ WINDOWS VENT PLATE FOR COVERING THE SMALL GAP AT THE TOP OF THE CABINET BLANK DRESS PANEL, COVERS ONE CAB-4 TIER DIGITAL AUDIO AMPLIFIER (50 W, 70 VRMS) BACKUP DIGITAL AUDIO AMPLIFIER, 70.7 VRMS DRESS PANEL USED W/ NCA2/XLS140-CPU2 IN LOWER ROW CENTRAL PROCESSOR UNIT (W/ CHS2-M2 CHASSIS) 80 CHARACTER DISPLAY WITH KEYBOARD BLANK PLATE FOR EMPTY DP-DISP SLOTS NETWORK CONTROL MODULE, WIRE BATTERY CABINET HOUSING ASSEMBLY	HONEYWELL
CP-7/8 PANEL	2 2 2 2 2 2 2 2 4 2 2 4	SBB-C4 XLS-DR-C4 VP-2B DP-1B DAA2-5070 BDA-70V ADP2-640 XLS140-CPU2 KDM-R2 BMP-1 NCM-W XLS-LBB PS-12180	BACKBOX ASSEMBLY, 3 TIERS (C SIZE), BLACK 3 TIER DOOR ASSEMBLY, BLACK W/ WINDOWS VENT PLATE FOR COVERING THE SMALL GAP AT THE TOP OF THE CABINET BLANK DRESS PANEL, COVERS ONE CAB-4 TIER DIGITAL AUDIO AMPLIFIER (50 W, 70 VRMS) BACKUP DIGITAL AUDIO AMPLIFIER, 70.7 VRMS DRESS PANEL USED W/ NCA2/XLS140—CPU2 IN LOWER ROW CENTRAL PROCESSOR UNIT (W/ CHS2-M2 CHASSIS) 80 CHARACTER DISPLAY WITH KEYBOARD BLANK PLATE FOR EMPTY DP—DISP SLOTS NETWORK CONTROL MODULE, WIRE BATTERY CABINET HOUSING ASSEMBLY 12V 18 AH BATTERY W/ UNIVERSAL TERMINALS	HONEYWELL POWER SONIC
,	2 2 2 2 2 2 2 2 2 4	SBB-C4 XLS-DR-C4 VP-2B DP-1B DAA2-5070 BDA-70V ADP2-640 XLS140-CPU2 KDM-R2 BMP-1 NCM-W XLS-LBB	BACKBOX ASSEMBLY, 3 TIERS (C SIZE), BLACK 3 TIER DOOR ASSEMBLY, BLACK W/ WINDOWS VENT PLATE FOR COVERING THE SMALL GAP AT THE TOP OF THE CABINET BLANK DRESS PANEL, COVERS ONE CAB-4 TIER DIGITAL AUDIO AMPLIFIER (50 W, 70 VRMS) BACKUP DIGITAL AUDIO AMPLIFIER, 70.7 VRMS DRESS PANEL USED W/ NCA2/XLS140-CPU2 IN LOWER ROW CENTRAL PROCESSOR UNIT (W/ CHS2-M2 CHASSIS) 80 CHARACTER DISPLAY WITH KEYBOARD BLANK PLATE FOR EMPTY DP-DISP SLOTS NETWORK CONTROL MODULE, WIRE BATTERY CABINET HOUSING ASSEMBLY 12V 18 AH BATTERY W/ UNIVERSAL TERMINALS 12V 26 AH BATTERY W/ UNIVERSAL TERMINALS	HONEYWELL
,	2 2 2 2 2 2 2 2 4 2 2 4 2 4	SBB-C4 XLS-DR-C4 VP-2B DP-1B DAA2-5070 BDA-70V ADP2-640 XLS140-CPU2 KDM-R2 BMP-1 NCM-W XLS-LBB PS-12180 (PS-12260	BACKBOX ASSEMBLY, 3 TIERS (C SIZE), BLACK 3 TIER DOOR ASSEMBLY, BLACK W/ WINDOWS VENT PLATE FOR COVERING THE SMALL GAP AT THE TOP OF THE CABINET BLANK DRESS PANEL, COVERS ONE CAB-4 TIER DIGITAL AUDIO AMPLIFIER (50 W, 70 VRMS) BACKUP DIGITAL AUDIO AMPLIFIER, 70.7 VRMS DRESS PANEL USED W/ NCA2/XLS140-CPU2 IN LOWER ROW CENTRAL PROCESSOR UNIT (W/ CHS2-M2 CHASSIS) 80 CHARACTER DISPLAY WITH KEYBOARD BLANK PLATE FOR EMPTY DP-DISP SLOTS NETWORK CONTROL MODULE, WIRE BATTERY CABINET HOUSING ASSEMBLY 12V 18 AH BATTERY W/ UNIVERSAL TERMINALS 12V 26 AH BATTERY W/ UNIVERSAL TERMINALS	HONEYWELL POWER SONIC POWER SONIC
•	2 2 2 2 2 2 2 2 4 2 2 4	SBB-C4 XLS-DR-C4 VP-2B DP-1B DAA2-5070 BDA-70V ADP2-640 XLS140-CPU2 KDM-R2 BMP-1 NCM-W XLS-LBB PS-12180 (PŠ-12260	BACKBOX ASSEMBLY, 3 TIERS (C SIZE), BLACK 3 TIER DOOR ASSEMBLY, BLACK W/ WINDOWS VENT PLATE FOR COVERING THE SMALL GAP AT THE TOP OF THE CABINET BLANK DRESS PANEL, COVERS ONE CAB-4 TIER DIGITAL AUDIO AMPLIFIER (50 W, 70 VRMS) BACKUP DIGITAL AUDIO AMPLIFIER, 70.7 VRMS DRESS PANEL USED W/ NCA2/XLS140-CPU2 IN LOWER ROW CENTRAL PROCESSOR UNIT (W/ CHS2-M2 CHASSIS) 80 CHARACTER DISPLAY WITH KEYBOARD BLANK PLATE FOR EMPTY DP-DISP SLOTS NETWORK CONTROL MODULE, WIRE BATTERY CABINET HOUSING ASSEMBLY 12V 18 AH BATTERY W/ UNIVERSAL TERMINALS 12V 26 AH BATTERY W/ UNIVERSAL TERMINALS	HONEYWELL POWER SONIC POWER SONIC
•	2 2 2 2 2 2 2 2 4 2 4 4 4	SBB-C4 XLS-DR-C4 VP-2B DP-1B DAA2-5070 BDA-70V ADP2-640 XLS140-CPU2 KDM-R2 BMP-1 NCM-W XLS-LBB PS-12180 (PŠ-12260	BACKBOX ASSEMBLY, 3 TIERS (C SIZE), BLACK 3 TIER DOOR ASSEMBLY, BLACK W/ WINDOWS VENT PLATE FOR COVERING THE SMALL GAP AT THE TOP OF THE CABINET BLANK DRESS PANEL, COVERS ONE CAB-4 TIER DIGITAL AUDIO AMPLIFIER (50 W, 70 VRMS) BACKUP DIGITAL AUDIO AMPLIFIER, 70.7 VRMS DRESS PANEL USED W/ NCA2/XLS140-CPU2 IN LOWER ROW CENTRAL PROCESSOR UNIT (W/ CHS2-M2 CHASSIS) 80 CHARACTER DISPLAY WITH KEYBOARD BLANK PLATE FOR EMPTY DP-DISP SLOTS NETWORK CONTROL MODULE, WIRE BATTERY CABINET HOUSING ASSEMBLY 12V 18 AH BATTERY W/ UNIVERSAL TERMINALS 12V 26 AH BATTERY W/ UNIVERSAL TERMINALS	HONEYWELL POWER SONIC POWER SONIC ALTRONIX CORP.
C POWER SUPPLY	2 2 2 2 2 2 2 2 4 2 4 4 4	SBB-C4 XLS-DR-C4 VP-2B DP-1B DAA2-5070 BDA-70V ADP2-640 XLS140-CPU2 KDM-R2 BMP-1 NCM-W XLS-LBB PS-12180 (PS-12260 AL842ULADA PS-1270	BACKBOX ASSEMBLY, 3 TIERS (C SIZE), BLACK 3 TIER DOOR ASSEMBLY, BLACK W/ WINDOWS VENT PLATE FOR COVERING THE SMALL GAP AT THE TOP OF THE CABINET BLANK DRESS PANEL, COVERS ONE CAB-4 TIER DIGITAL AUDIO AMPLIFIER (50 W, 70 VRMS) BACKUP DIGITAL AUDIO AMPLIFIER, 70.7 VRMS DRESS PANEL USED W/ NCA2/XLS140-CPU2 IN LOWER ROW CENTRAL PROCESSOR UNIT (W/ CHS2-M2 CHASSIS) 80 CHARACTER DISPLAY WITH KEYBOARD BLANK PLATE FOR EMPTY DP-DISP SLOTS NETWORK CONTROL MODULE, WIRE BATTERY CABINET HOUSING ASSEMBLY 12V 18 AH BATTERY W/ UNIVERSAL TERMINALS 12V 26 AH BATTERY W/ UNIVERSAL TERMINALS 8 AMP REMOTE NAC POWER EXTENDER, 4 CLASS 'A' CIRCUITS 12V 7 AH BATTERY W/ UNIVERSAL TERMINALS	HONEYWELL ANDEYWELL HONEYWELL HONEYWELL POWER SONIC ALTRONIX CORP. POWER SONIC
C POWER SUPPLY	2 2 2 2 2 2 2 2 4 2 4 4 4 5 10 3	SBB-C4 XLS-DR-C4 VP-2B DP-1B DAA2-5070 BDA-70V ADP2-640 XLS140-CPU2 KDM-R2 BMP-1 NCM-W XLS-LBB PS-12180 (PS-12260 AL842ULADA PS-1270	BACKBOX ASSEMBLY, 3 TIERS (C SIZE), BLACK 3 TIER DOOR ASSEMBLY, BLACK W/ WINDOWS VENT PLATE FOR COVERING THE SMALL GAP AT THE TOP OF THE CABINET BLANK DRESS PANEL, COVERS ONE CAB-4 TIER DIGITAL AUDIO AMPLIFIER (50 W, 70 VRMS) BACKUP DIGITAL AUDIO AMPLIFIER, 70.7 VRMS DRESS PANEL USED W/ NCA2/XLS140-CPU2 IN LOWER ROW CENTRAL PROCESSOR UNIT (W/ CHS2-M2 CHASSIS) 80 CHARACTER DISPLAY WITH KEYBOARD BLANK PLATE FOR EMPTY DP-DISP SLOTS NETWORK CONTROL MODULE, WIRE BATTERY CABINET HOUSING ASSEMBLY 12V 18 AH BATTERY W/ UNIVERSAL TERMINALS 12V 26 AH BATTERY W/ UNIVERSAL TERMINALS 8 AMP REMOTE NAC POWER EXTENDER, 4 CLASS 'A' CIRCUITS 12V 7 AH BATTERY W/ UNIVERSAL TERMINALS	HONEYWELL ANDEYWELL HONEYWELL HONEYWELL POWER SONIC ALTRONIX CORP. POWER SONIC
C POWER SUPPLY	2 2 2 2 2 2 2 2 4 2 2 4 4 4 5 10 3	SBB-C4 XLS-DR-C4 VP-2B DP-1B DAA2-5070 BDA-70V ADP2-640 XLS140-CPU2 KDM-R2 BMP-1 NCM-W XLS-LBB PS-12180 (PŠ-12260 AL842ULADA PS-1270 DTK-120HW	BACKBOX ASSEMBLY, 3 TIERS (C SIZE), BLACK 3 TIER DOOR ASSEMBLY, BLACK W/ WINDOWS VENT PLATE FOR COVERING THE SMALL GAP AT THE TOP OF THE CABINET BLANK DRESS PANEL, COVERS ONE CAB-4 TIER DIGITAL AUDIO AMPLIFIER (50 W, 70 VRMS) BACKUP DIGITAL AUDIO AMPLIFIER, 70.7 VRMS DRESS PANEL USED W/ NCA2/XLS140-CPU2 IN LOWER ROW CENTRAL PROCESSOR UNIT (W/ CHS2-M2 CHASSIS) 80 CHARACTER DISPLAY WITH KEYBOARD BLANK PLATE FOR EMPTY DP-DISP SLOTS NETWORK CONTROL MODULE, WIRE BATTERY CABINET HOUSING ASSEMBLY 12V 18 AH BATTERY W/ UNIVERSAL TERMINALS 12V 26 AH BATTERY W/ UNIVERSAL TERMINALS 8 AMP REMOTE NAC POWER EXTENDER, 4 CLASS 'A' CIRCUITS 12V 7 AH BATTERY W/ UNIVERSAL TERMINALS 120V TRANSIENT VOLTAGE SURGE PROTECTOR	HONEYWELL POWER SONIC POWER SONIC POWER SONIC DITEK CORP.
C POWER SUPPLY	2 2 2 2 2 2 2 2 4 2 4 4 4 5 10 3	SBB-C4 XLS-DR-C4 VP-2B DP-1B DAA2-5070 BDA-70V ADP2-640 XLS140-CPU2 KDM-R2 BMP-1 NCM-W XLS-LBB PS-12180 (PS-12260 AL842ULADA PS-1270 DTK-120HW	BACKBOX ASSEMBLY, 3 TIERS (C SIZE), BLACK 3 TIER DOOR ASSEMBLY, BLACK W/ WINDOWS VENT PLATE FOR COVERING THE SMALL GAP AT THE TOP OF THE CABINET BLANK DRESS PANEL, COVERS ONE CAB-4 TIER DIGITAL AUDIO AMPLIFIER (50 W, 70 VRMS) BACKUP DIGITAL AUDIO AMPLIFIER, 70.7 VRMS DRESS PANEL USED W/ NCA2/XLS140-CPU2 IN LOWER ROW CENTRAL PROCESSOR UNIT (W/ CHS2-M2 CHASSIS) 80 CHARACTER DISPLAY WITH KEYBOARD BLANK PLATE FOR EMPTY DP-DISP SLOTS NETWORK CONTROL MODULE, WIRE BATTERY CABINET HOUSING ASSEMBLY 12V 18 AH BATTERY W/ UNIVERSAL TERMINALS 12V 26 AH BATTERY W/ UNIVERSAL TERMINALS 12V 7 RANSIENT VOLTAGE SURGE PROTECTOR	HONEYWELL POWER SONIC POWER SONIC OUTER CORP. HONEYWELL HONEYWELL HONEYWELL HONEYWELL HONEYWELL POWER SONIC OUTER CORP.
C POWER SUPPLY	2 2 2 2 2 2 2 2 4 2 2 4 4 4 4	SBB-C4 XLS-DR-C4 VP-2B DP-1B DAA2-5070 BDA-70V ADP2-640 XLS140-CPU2 KDM-R2 BMP-1 NCM-W XLS-LBB PS-12180 (PS-12260 AL842ULADA PS-1270 DTK-120HW S464G1007 MPSR1-SHTW-GE TC806B3010 B300-6	BACKBOX ASSEMBLY, 3 TIERS (C SIZE), BLACK 3 TIER DOOR ASSEMBLY, BLACK W/ WINDOWS VENT PLATE FOR COVERING THE SMALL GAP AT THE TOP OF THE CABINET BLANK DRESS PANEL, COVERS ONE CAB-4 TIER DIGITAL AUDIO AMPLIFIER (50 W, 70 VRMS) BACKUP DIGITAL AUDIO AMPLIFIER, 70.7 VRMS DRESS PANEL USED W/ NCA2/XLS140-CPU2 IN LOWER ROW CENTRAL PROCESSOR UNIT (W/ CHS2-M2 CHASSIS) 80 CHARACTER DISPLAY WITH KEYBOARD BLANK PLATE FOR EMPTY DP-DISP SLOTS NETWORK CONTROL MODULE, WIRE BATTERY CABINET HOUSING ASSEMBLY 12V 18 AH BATTERY W/ UNIVERSAL TERMINALS 12V 26 AH BATTERY W/ UNIVERSAL TERMINALS 12V 7 AH BATTERY W/ UNIVERSAL TERMINALS 12V 8 AMP REMOTE NOW TO THE CABLET TO THE CA	HONEYWELL POWER SONIC POWER SONIC OITEK CORP. HONEYWELL HONEYWELL HONEYWELL HONEYWELL HONEYWELL HONEYWELL HONEYWELL HONEYWELL HONEYWELL
C POWER SUPPLY	2 2 2 2 2 2 2 2 4 2 4 4 4 5 10 3	SBB-C4 XLS-DR-C4 VP-2B DP-1B DAA2-5070 BDA-70V ADP2-640 XLS140-CPU2 KDM-R2 BMP-1 NCM-W XLS-LBB PS-12180 PS-12260 AL842ULADA PS-1270 DTK-120HW S464G1007 MPSR1-SHTW-GE TC806B3010 B300-6 RA100Z	BACKBOX ASSEMBLY, 3 TIERS (C SIZE), BLACK 3 TIER DOOR ASSEMBLY, BLACK W/ WINDOWS VENT PLATE FOR COVERING THE SMALL GAP AT THE TOP OF THE CABINET BLANK DRESS PANEL, COVERS ONE CAB-4 TIER DIGITAL AUDIO AMPLIFIER (50 W, 70 VRMS) BACKUP DIGITAL AUDIO AMPLIFIER, 70.7 VRMS DRESS PANEL USED W/ NCA2/XLS140-CPU2 IN LOWER ROW CENTRAL PROCESSOR UNIT (W/ CHS2-M2 CHASSIS) 80 CHARACTER DISPLAY WITH KEYBOARD BLANK PLATE FOR EMPTY DP-DISP SLOTS NETWORK CONTROL MODULE, WIRE BATTERY CABINET HOUSING ASSEMBLY 12V 18 AH BATTERY W/ UNIVERSAL TERMINALS 12V 7 AH BATTERY W/ UNIVERSAL TERMINALS 12V 7 AH BATTERY W/ UNIVERSAL TERMINALS 12V TRANSIENT VOLTAGE SURGE PROTECTOR MANUAL PULL STATION, ADDRESSABLE SINGLE ACTION, SPST, HEX KEY RESET, WEATHERPROOF WHITE, INTELLIGENT PHOTOELECTRIC SENSOR, FLASHSCAN ONLY WHITE, STANDARD FLANGED LOW-PROFILE MOUNTING BASE REMOTE LED ANNUNCIATOR	HONEYWELL POWER SONIC POWER SONIC OITEK CORP. HONEYWELL
C POWER SUPPLY	2 2 2 2 2 2 2 2 4 2 2 4 4 4 5 10 3	SBB-C4 XLS-DR-C4 VP-2B DP-1B DAA2-5070 BDA-70V ADP2-640 XLS140-CPU2 KDM-R2 BMP-1 NCM-W XLS-LBB PS-12180 (PŠ-12260 AL842ULADA PS-1270 DTK-120HW S464G1007 MPSR1-SHTW-GE TC806B3010 B300-6 RA100Z TC806DNR3000	BACKBOX ASSEMBLY, 3 TIERS (C SIZE), BLACK 3 TIER DOOR ASSEMBLY, BLACK W/ WINDOWS VENT PLATE FOR COVERING THE SMALL GAP AT THE TOP OF THE CABINET BLANK DRESS PANEL, COVERS ONE CAB-4 TIER DIGITAL AUDIO AMPLIFIER (50 W, 70 VRMS) BACKUP DIGITAL AUDIO AMPLIFIER, 70.7 VRMS DRESS PANEL USED W/ NCA2/XLS140-CPU2 IN LOWER ROW CENTRAL PROCESSOR UNIT (W/ CHS2-M2 CHASSIS) 80 CHARACTER DISPLAY WITH KEYBOARD BLANK PLATE FOR EMPTY DP-DISP SLOTS NETWORK CONTROL MODULE, WIRE BATTERY CABINET HOUSING ASSEMBLY 12V 18 AH BATTERY W/ UNIVERSAL TERMINALS 12V 26 AH BATTERY W/ UNIVERSAL TERMINALS 12V 7 AH BATTERY W/ UNIVERSAL TERMINALS 12V 7 AH BATTERY W/ UNIVERSAL TERMINALS 12V TRANSIENT VOLTAGE SURGE PROTECTOR MANUAL PULL STATION, ADDRESSABLE SINGLE ACTION, SPST, HEX KEY RESET, WEATHERPROOF WHITE, INTELLIGENT PHOTOELECTRIC SENSOR, FLASHSCAN ONLY WHITE, STANDARD FLANGED LOW-PROFILE MOUNTING BASE REMOTE LED ANNUNCIATOR WHITE, INTELLIGENT PHOTOELECTRIC SENSOR, REMOTE TEST CAPABLE, FLASHSCAN ONLY	HONEYWELL POWER SONIC POWER SONIC OITEK CORP. HONEYWELL
C POWER SUPPLY	2 2 2 2 2 2 2 2 4 4 2 2 2 4 4 4 4 5 10 3	SBB-C4 XLS-DR-C4 VP-2B DP-1B DAA2-5070 BDA-70V ADP2-640 XLS140-CPU2 KDM-R2 BMP-1 NCM-W XLS-LBB PS-12180 PS-12260 AL842ULADA PS-1270 DTK-120HW S464G1007 MPSR1-SHTW-GE TC806B3010 B300-6 RA100Z TC806DNR3000 DNR	BACKBOX ASSEMBLY, 3 TIERS (C SIZE), BLACK 3 TIER DOOR ASSEMBLY, BLACK W/ WINDOWS VENT PLATE FOR COVERING THE SMALL GAP AT THE TOP OF THE CABINET BLANK DRESS PANEL, COVERS ONE CAB—4 TIER DIGITAL AUDIO AMPLIFIER (50 W, 70 VRMS) BACKUP DIGITAL AUDIO AMPLIFIER, 70.7 VRMS DRESS PANEL USED W/ NCAZ/XLS140—CPU2 IN LOWER ROW CENTRAL PROCESSOR UNIT (W/ CHS2—M2 CHASSIS) 80 CHARACTER DISPLAY WITH KEYBOARD BLANK PLATE FOR EMPTY DP—DISP SLOTS NETWORK CONTROL MODULE, WIRE BATTERY CABINET HOUSING ASSEMBLY 12V 18 AH BATTERY W/ UNIVERSAL TERMINALS 12V 26 AH BATTERY W/ UNIVERSAL TERMINALS 12V 7 AH BATTERY W/ UNIVERSAL TERMINALS 12DV TRANSIENT VOLTAGE SURGE PROTECTOR WHITE, STANDARD FLANGED LOW—PROFILE MOUNTING BASE REMOTE LED ANNUNCIATOR WHITE, INTELLIGENT PHOTOELECTRIC SENSOR, REMOTE TEST CAPABLE, FLASHSCAN ONLY INNOVAIRFLEX LOW—FLOW NON—RELAY DUCT—DETECTOR HOUSING	HONEYWELL POWER SONIC POWER SONIC DITEK CORP. HONEYWELL
C POWER SUPPLY	2 2 2 2 2 2 2 2 4 2 2 4 4 4 4 5 10 3 131 131 14 44 44 44 44 44 44 44	SBB-C4 XLS-DR-C4 VP-2B DP-1B DAA2-5070 BDA-70V ADP2-640 XLS140-CPU2 KDM-R2 BMP-1 NCM-W XLS-LBB PS-12180 (PS-12260 AL842ULADA PS-1270 DTK-120HW S464G1007 MPSR1-SHTW-GE TC806B3010 B300-6 RA100Z TC806DNR3000 DNR DST5 **	BACKBOX ASSEMBLY, 3 TIERS (C SIZE), BLACK 3 TIER DOOR ASSEMBLY, BLACK W/ WINDOWS VENT PLATE FOR COVERING THE SMALL GAP AT THE TOP OF THE CABINET BLANK DRESS PANEL, COVERS ONE CAB—4 TIER DIGITAL AUDIO AMPLIFIER (50 W, 70 VRMS) BACKUP DIGITAL AUDIO AMPLIFIER, 70.7 VRMS DRESS PANEL USED W/ NCA2/XLS140—CPU2 IN LOWER ROW CENTRAL PROCESSOR UNIT (W/ CHS2—M2 CHASSIS) 80 CHARACTER DISPLAY WITH KEYBOARD BLANK PLATE FOR EMPTY DP—DISP SLOTS NETWORK CONTROL MODULE, WIRE BATTERY CABINET HOUSING ASSEMBLY 12V 18 AH BATTERY W/ UNIVERSAL TERMINALS 12V 26 AH BATTERY W/ UNIVERSAL TERMINALS 12V 7 AH BATTERY W/ UNIVERSAL TERMINALS 12V 7 AH BATTERY W/ UNIVERSAL TERMINALS 12V TRANSIENT VOLTAGE SURGE PROTECTOR MANUAL PULL STATION, ADDRESSABLE SINGLE ACTION, SPST, HEX KEY RESET, WEATHERPROOF WHITE, INTELLIGENT PHOTOELECTRIC SENSOR, FLASHSCAN ONLY WHITE, STANDARD FLANGED LOW—PROFILE MOUNTING BASE REMOTE LED ANNUNCIATOR WHITE, INTELLIGENT PHOTOELECTRIC SENSOR, REMOTE TEST CAPABLE, FLASHSCAN ONLY INNOVAIRFLEX LOW—FLOW NON—RELAY DUCT—DETECTOR HOUSING SAMPLING TUBE, DUCT WIDTHS 4FT TO 8FT	HONEYWELL POWER SONIC POWER SONIC DITEK CORP. HONEYWELL
C POWER SUPPLY C Field Devices	2 2 2 2 2 2 2 2 4 2 2 4 4 4 4 4 4 131 131 131 14 44 44 44 44 44 44 44 44 44 44 44	SBB-C4 XLS-DR-C4 VP-2B DP-1B DAA2-5070 BDA-70V ADP2-640 XLS140-CPU2 KDM-R2 BMP-1 NCM-W XLS-LBB PS-12180 PS-12260 AL842ULADA PS-1270 DTK-120HW S464G1007 MPSR1-SHTW-GE TC806B3010 B300-6 RA100Z TC806DNR3000 DNR DST5 ** RTS151KEY	BACKBOX ASSEMBLY, 3 TIERS (C SIZE), BLACK 3 TIER DOOR ASSEMBLY, BLACK W/ WINDOWS VENT PLATE FOR COVERING THE SMALL GAP AT THE TOP OF THE CABINET BLANK DRESS PANEL, COVERS ONE CAB—4 TIER DIGITAL AUDIO AMPLIFIER (50 W, 70 VRMS) BACKUP DIGITAL AUDIO AMPLIFIER, 70.7 VRMS DRESS PANEL USED W/ NCA2/XLS140—CPU2 IN LOWER ROW CENTRAL PROCESSOR UNIT (W/ CHS2—M2 CHASSIS) 80 CHARACTER DISPLAY WITH KEYBOARD BLANK PLATE FOR EMPTY DP—DISP SLOTS NETWORK CONTROL MODULE, WIRE BATTERY CABINET HOUSING ASSEMBLY 12V 18 AH BATTERY W/ UNIVERSAL TERMINALS 12V 26 AH BATTERY W/ UNIVERSAL TERMINALS 12V 7 AH BATTERY W/ UNIVERSAL TERMINALS 12V 7 AH BATTERY W/ UNIVERSAL TERMINALS 12OV TRANSIENT VOLTAGE SURGE PROTECTOR MANUAL PULL STATION, ADDRESSABLE SINGLE ACTION, SPST, HEX KEY RESET, WEATHERPROOF WHITE, INTELLIGENT PHOTOELECTRIC SENSOR, FLASHSCAN ONLY WHITE, STANDARD FLANGED LOW—PROFILE MOUNTING BASE REMOTE LED ANNUNCIATOR WHITE, INTELLIGENT PHOTOELECTRIC SENSOR, REMOTE TEST CAPABLE, FLASHSCAN ONLY INNOVAIRFLEX LOW—FLOW NON—RELAY DUCT—DETECTOR HOUSING SAMPLING TUBE, DUCT WIDTHS 4FT TO 8FT REMOTE TEST STATION WITH KEY	HONEYWELL POWER SONIC POWER SONIC OITEK CORP. HONEYWELL
C POWER SUPPLY	2 2 2 2 2 2 2 2 4 2 2 4 4 4 4 5 10 3 131 131 14 44 44 44 44 44 44 44 44 44 44 44 44	SBB-C4 XLS-DR-C4 VP-2B DP-1B DAA2-5070 BDA-70V ADP2-640 XLS140-CPU2 KDM-R2 BMP-1 NCM-W XLS-LBB PS-12180 PS-12260 AL842ULADA PS-1270 DTK-120HW S464G1007 MPSR1-SHTW-GE TC806B3010 B300-6 RA100Z TC806DNR3000 DNR DST5 ** RTS151KEY TC810R1024	BACKBOX ASSEMBLY, 3 TIERS (C SIZE), BLACK 3 TIER DOOR ASSEMBLY, BLACK W/ WINDOWS VENT PLATE FOR COVERING THE SMALL GAP AT THE TOP OF THE CABINET BLANK DRESS PANEL, COVERS ONE CAB—4 TIER DIGITAL AUDIO AMPLIFIER (50 W, 70 VRMS) BACKUP DIGITAL AUDIO AMPLIFIER, 70.7 VRMS DRESS PANEL USED W/ NCA2/XLS140—CPU2 IN LOWER ROW CENTRAL PROCESSOR UNIT (W/ CHS2—M2 CHASSIS) 80 CHARACTER DISPLAY WITH KEYBOARD BLANK PLATE FOR EMPTY DP—DISP SLOTS NETWORK CONTROL MODULE, WIRE BATTERY CABINET HOUSING ASSEMBLY 12V 18 AH BATTERY W/ UNIVERSAL TERMINALS 12V 26 AH BATTERY W/ UNIVERSAL TERMINALS 12V 7 AND ATTERY W/ UNIVERSAL TERMINALS 12V 7 AND AND POWER EXTENDER, 4 CLASS 'A' CIRCUITS 12V 7 AND ATTERY W/ UNIVERSAL TERMINALS 12V 18 ACTION, SPST, HEX KEY RESET, WEATHERPROOF WHITE, INTELLIGENT PHOTOELECTRIC SENSOR, FLASHSCAN ONLY WHITE, STANDARD FLANGED LOW—PROFILE MOUNTING BASE REMOTE LED ANNUNCIATOR WHITE, INTELLIGENT PHOTOELECTRIC SENSOR, REMOTE TEST CAPABLE, FLASHSCAN ONLY INNOVAIRFLEX LOW—FLOW NON—RELAY DUCT—DETECTOR HOUSING SAMPLING TUBE, DUCT WIDTHS 4FT TO 8FT REMOTE TEST STATION WITH KEY FLASHSCAN RELAY MODULE	HONEYWELL POWER SONIC POWER SONIC DITEK CORP. HONEYWELL
C POWER SUPPLY C Field Devices	2 2 2 2 2 2 2 2 4 2 2 4 4 4 4 4 5 10 3 3 131 14 44 44 44 44 44 44 44 44 44 44 44 44	SBB-C4 XLS-DR-C4 VP-2B DP-1B DAA2-5070 BDA-70V ADP2-640 XLS140-CPU2 KDM-R2 BMP-1 NCM-W XLS-LBB PS-12180 (PS-12260 AL842ULADA PS-1270 DTK-120HW S464G1007 MPSR1-SHTW-GE TC806B3010 B300-6 RA100Z TC806DNR3000 DNR DST5 ** RTS151KEY TC810R1024 TC809A1059	BACKBOX ASSEMBLY, 3 TIERS (C SIZE), BLACK 3 TIER DOOR ASSEMBLY, BLACK W/ WINDOWS VENT PLATE FOR COVERING THE SMALL GAP AT THE TOP OF THE CABINET BLANK DRESS PANEL, COVERS ONE CAB—4 TIER DIGITAL AUDIO AMPLIFIER (50 W, 70 VRMS) BACKUP DIGITAL AUDIO AMPLIFIER, 70.7 VRMS DRESS PANEL USED W/ NCA2/XLS140—CPU2 IN LOWER ROW CENTRAL PROCESSOR UNIT (W/ CHS2—M2 CHASSIS) 80 CHARACTER DISPLAY WITH KEYBOARD BLANK PLATE FOR EMPTY DP—DISP SLOTS NETWORK CONTROL MODULE, WIRE BATTERY CABINET HOUSING ASSEMBLY 12V 18 AH BATTERY W/ UNIVERSAL TERMINALS 12V 26 AH BATTERY W/ UNIVERSAL TERMINALS 12V 7 AH BATTERY PW/ UNIVERSAL TERMINALS 12V 7 AH BATTERY W/ UNIVERSAL TERMINALS 12V 7 AH BATTERY PW/ UNIVERSAL TERMINALS 12V 7 AH BATTERY W/ UNIVERSAL TERMINALS 12V 7 AH BATTERY PW/ UNIVERSAL TERMINALS 12V 7 AH BATTERY W/ UNIVERSAL TERMINALS 12V 18 AND	HONEYWELL POWER SONIC POWER SONIC ALTRONIX CORP. POWER SONIC DITEK CORP. HONEYWELL
C POWER SUPPLY C Field Devices	2 2 2 2 2 2 2 2 4 2 2 4 4 4 4 5 10 3 131 131 14 44 44 44 44 44 44 44 44 44 44 44 44	SBB-C4 XLS-DR-C4 VP-2B DP-1B DAA2-5070 BDA-70V ADP2-640 XLS140-CPU2 KDM-R2 BMP-1 NCM-W XLS-LBB PS-12180 (PS-12260 AL842ULADA PS-1270 DTK-120HW S464G1007 MPSR1-SHTW-GE TC806B3010 B300-6 RA100Z TC806DNR3000 DNR DST5 ** RTS151KEY TC810R1024 TC809A1059 TC809D1004	BACKBOX ASSEMBLY, 3 TIERS (C SIZE), BLACK 3 TIER DOOR ASSEMBLY, BLACK W/ WINDOWS VENT PLATE FOR COVERING THE SMALL GAP AT THE TOP OF THE CABINET BLANK DRESS PANEL, COVERS ONE CAB—4 TIER DIGITAL AUDIO AMPLIFIER (50 W, 70 VRMS) BACKUP DIGITAL AUDIO AMPLIFIER, 70.7 VRMS DRESS PANEL USED W/ NCA2/XLS140—CPU2 IN LOWER ROW CENTRAL PROCESSOR UNIT (W/ CHS2—M2 CHASSIS) 80 CHARACTER DISPLAY WITH KEYBOARD BLANK PLATE FOR EMPTY DP—DISP SLOTS NETWORK CONTROL MODULE, WIRE BATTERY CABINET HOUSING ASSEMBLY 12V 18 AH BATTERY W/ UNIVERSAL TERMINALS 12V 26 AH BATTERY W/ UNIVERSAL TERMINALS 12V 7 TRANSIENT VOLTAGE SURGE PROTECTOR MANUAL PULL STATION, ADDRESSABLE SINGLE ACTION, SPST, HEX KEY RESET, WEATHERPROOF WHITE, INTELLIGENT PHOTOELECTRIC SENSOR, FLASHSCAN ONLY WHITE, INTELLIGENT PHOTOELECTRIC SENSOR, REMOTE TEST CAPABLE, FLASHSCAN ONLY INNOVAIRFLEX LOW—FLOW NON—RELAY DUCT—DETECTOR HOUSING SAMPLING TUBE, DUCT WIDTHS 4FT TO 8FT REMOTE LEST STATION WITH KEY FLASHSCAN MONITOR MODULE FLASHSCAN MONITOR MODULE FLASHSCAN DUAL MONITOR MODULE	HONEYWELL POWER SONIC POWER SONIC DITEK CORP. HONEYWELL
C POWER SUPPLY C Field Devices	2 2 2 2 2 2 2 2 4 2 2 4 4 4 4 4 4 4 4 4	SBB-C4 XLS-DR-C4 VP-2B DP-1B DAA2-5070 BDA-70V ADP2-640 XLS140-CPU2 KDM-R2 BMP-1 NCM-W XLS-LBB PS-12180 (PS-12260 AL842ULADA PS-1270 DTK-120HW S464G1007 MPSR1-SHTW-GE TC806B3010 B300-6 RA100Z TC806DNR3000 DNR DST5 ** RTS151KEY TC810R1024 TC809D1004 CB500	BACKBOX ASSEMBLY, 3 TIERS (C SIZE), BLACK 3 TIER DOOR ASSEMBLY, BLACK W/ WINDOWS VENT PLATE FOR COVERING THE SMALL GAP AT THE TOP OF THE CABINET BLANK DRESS PANEL, COVERS ONE CAB—4 TIER DIGITAL AUDIO AMPLIFIER (50 W, 70 VRMS) BACKUP DIGITAL AUDIO AMPLIFIER, 70.7 VRMS DRESS PANEL USED W/ NCA2/XLS140—CPU2 IN LOWER ROW CENTRAL PROCESSOR UNIT (W/ CHS2—M2 CHASSIS) 80 CHARACTER DISPLAY WITH KEYBOARD BLANK PLATE FOR EMPTY DP—DISP SLOTS NETWORK CONTROL MODULE, WIRE BATTERY CABINET HOUSING ASSEMBLY 12V 18 AH BATTERY W/ UNIVERSAL TERMINALS 12V 26 AH BATTERY W/ UNIVERSAL TERMINALS 12V 7 AH BATTERY W/ UNIVERSAL TERMINALS 12V 18 AH BATTERY W/ UNIVERSAL TERMINALS 12V 18 AH BATTERY W/ UNIVERSAL TERMINALS 12V 12V 13 AH BATTERY W/ UNIVERSAL TERMINALS 12V 13V 13V 13V 13V 13V 13V 13V 13V 13V 13	HONEYWELL POWER SONIC POWER SONIC DITEK CORP. HONEYWELL
C POWER SUPPLY C Field Devices	2 2 2 2 2 2 2 2 4 4 2 2 2 4 4 4 4 5 10 3 131 131 14 44 44 44 44 44 44 44 44 44 44 44 44	SBB-C4 XLS-DR-C4 VP-2B DP-1B DAA2-5070 BDA-70V ADP2-640 XLS140-CPU2 KDM-R2 BMP-1 NCM-W XLS-LBB PS-12180 PS-12260 AL842ULADA PS-1270 DTK-120HW S464G1007 MPSR1-SHTW-GE TC806B3010 B300-6 RA100Z TC806DNR3000 DNR DST5 ** RTS151KEY TC810R1024 TC809D1004 CB500 AFAWS-TELC	BACKBOX ASSEMBLY, 3 TIERS (C SIZE), BLACK 3 TIER DOOR ASSEMBLY, BLACK W/ WINDOWS VENT PLATE FOR COVERING THE SMALL GAP AT THE TOP OF THE CABINET BLANK DRESS PANEL, COVERS ONE CAB—4 TIER DIGITAL AUDIO AMPLIFIER (50 W, 70 VRMS) BACKUP DIGITAL AUDIO AMPLIFIER, 70.7 VRMS DRESS PANEL USED W/ NCA2/XLS140—CPU2 IN LOWER ROW CENTRAL PROCESSOR UNIT (W/ CHS2—M2 CHASSIS) BO CHARACTER DISPLAY WITH KEYBOARD BLANK PLATE FOR EMPTY DP—DISP SLOTS NETWORK CONTROL MODULE, WIRE BATTERY CABINET HOUSING ASSEMBLY 12V 18 AH BATTERY W/ UNIVERSAL TERMINALS 12V 26 AH BATTERY W/ UNIVERSAL TERMINALS 12V 7 TRANSIENT VOLTAGE SURGE PROTECTOR MANUAL PULL STATION, ADDRESSABLE SINGLE ACTION, SPST, HEX KEY RESET, WEATHERPROOF WHITE, INTELLIGENT PHOTOELECTRIC SENSOR, FLASHSCAN ONLY WHITE, INTELLIGENT PHOTOELECTRIC SENSOR, FLASHSCAN ONLY WHITE, INTELLIGENT PHOTOELECTRIC SENSOR, REMOTE TEST CAPABLE, FLASHSCAN ONLY INNOVAIRFLEX LOW—FLOW NON—RELAY DUCT—DETECTOR HOUSING SAMPLING TUBE, DUCT WIDTHS 4FT TO 8FT REMOTE TEST STATION WITH KEY FLASHSCAN RELAY MODULE FLASHSCAN RELAY MODULE FLASHSCAN MONITOR MODULE FLASHSCAN DUAL MONITOR MODULE MODULE VOLTAGE SAFETY BARRIER TELEPHONE CABINET ASSEMBLY W/COILED CORD.	HONEYWELL POWER SONIC POWER SONIC POWER SONIC DITEK CORP. HONEYWELL
C POWER SUPPLY C Field Devices	2 2 2 2 2 2 2 2 4 4 2 2 4 4 4 4 4 4 4 4	SBB-C4 XLS-DR-C4 VP-2B DP-1B DAA2-5070 BDA-70V ADP2-640 XLS140-CPU2 KDM-R2 BMP-1 NCM-W XLS-LBB PS-12180 (PS-12260 AL842ULADA PS-1270 DTK-120HW S464G1007 MPSR1-SHTW-GE TC806B3010 B300-6 RA100Z TC806DNR3000 DNR DST5 ** RTS151KEY TC810R1024 TC809D1004 CB500 AFAWS-TELC AFAWS-BX	BACKBOX ASSEMBLY, 3 TIERS (C SIZE), BLACK 3 TIER DOOR ASSEMBLY, BLACK W/ WINDOWS VENT PLATE FOR COVERING THE SMALL GAP AT THE TOP OF THE CABINET BLANK DRESS PANEL, COVERS ONE CAB—4 TIER DIGITAL AUDIO AMPLIFIER (50 W, 70 VRMS) BACKUP DIGITAL AUDIO AMPLIFIER, 70.7 VRMS DRESS PANEL USED W/ NCA2/XLS140—CPU2 IN LOWER ROW CENTRAL PROCESSOR UNIT (W/ CHS2—M2 CHASSIS) 80 CHARACTER DISPLAY WITH KEYBOARD BLANK PLATE FOR EMPTY DP—DISP SLOTS NETWORK CONTROL MODULE, WIRE BATTERY CABINET HOUSING ASSEMBLY 12V 18 AH BATTERY W/ UNIVERSAL TERMINALS 12V 26 AH BATTERY W/ UNIVERSAL TERMINALS 12V 7 AH BATTERY W/ UNIVERS	HONEYWELL POWER SONIC POWER SONIC POWER SONIC DITEK CORP. HONEYWELL
C POWER SUPPLY C Field Devices	2 2 2 2 2 2 2 2 4 2 2 4 4 4 4 4 4 4 4 4	SBB-C4 XLS-DR-C4 VP-2B DP-1B DAA2-5070 BDA-70V ADP2-640 XLS140-CPU2 KDM-R2 BMP-1 NCM-W XLS-LBB PS-12180 PS-12260 AL842ULADA PS-1270 DTK-120HW S464G1007 MPSR1-SHTW-GE TC806B3010 B300-6 RA100Z TC806DNR3000 DNR DST5 ** RTS151KEY TC810R1024 TC809A1059 TC809D1004 CB500 AFAWS-TELC AFAWS-BX AFAWS-LS	BACKBOX ASSEMBLY, 3 TIERS (C SIZE), BLACK 3 TIER DOOR ASSEMBLY, BLACK W/ WINDOWS VENT PLATE FOR COVERING THE SMALL GAP AT THE TOP OF THE CABINET BLANK DRESS PANEL, COVERS ONE CAB—4 TIER DIGITAL AUDIO AMPLIFIER (50 W, 70 VRMS) BACKUP DIGITAL AUDIO AMPLIFIER, 70.7 VRMS DRESS PANEL USED W/ NCA2/XLS140—CPUZ IN LOWER ROW CENTRAL PROCESSOR UNIT (W/ CHS2—M2 CHASSIS) 80 CHARACTER DISPLAY WITH KEYBOARD BLANK PLATE FOR EMPTY DP—DISP SLOTS NETWORK CONTROL MODULE, WIRE BATTERY CABINET HOUSING ASSEMBLY 12V 18 AH BATTERY W/ UNIVERSAL TERMINALS 12V 26 AH BATTERY W/ UNIVERSAL TERMINALS 12V 7 AH BATTERY W/ UN	HONEYWELL POWER SONIC POWER SONIC POWER SONIC DITEK CORP. HONEYWELL
C POWER SUPPLY C Field Devices	2 2 2 2 2 2 2 2 4 4 2 2 4 4 4 4 4 4 4 4	SBB-C4 XLS-DR-C4 VP-2B DP-1B DAA2-5070 BDA-70V ADP2-640 XLS140-CPU2 KDM-R2 BMP-1 NCM-W XLS-LBB PS-12180 PS-12260 AL842ULADA PS-1270 DTK-120HW S464G1007 MPSR1-SHTW-GE TC806B3010 B300-6 RA100Z TC806DNR3000 DNR DST5 ** RTS151KEY TC810R1024 TC809A1059 TC809D1004 CB500 AFAWS-TELC AFAWS-BX AFAWS-LS XP10-M	BACKBOX ASSEMBLY, 3 TIERS (C SIZE), BLACK 3 TIER DOOR ASSEMBLY, BLACK W/ WINDOWS VENT PLATE FOR COVERING THE SMALL GAP AT THE TOP OF THE CABINET BLANK DRESS PANEL, COVERS ONE CAB—4 TIER DIGITAL AUDIO AMPLIFIER (50 W, 70 VRMS) BACKUP DIGITAL AUDIO AMPLIFIER, 70.7 VRMS DRESS PANEL USED W/ NCA2/XLS140—CPUZ IN LOWER ROW CENTRAL PROCESSOR UNIT (W/ CHS2—M2 CHASSIS) 80 CHARACTER DISPLAY WITH KEYBOARD BLANK PLATE FOR EMPTY DP—DISP SLOTS NETWORK CONTROL MODULE, WIRE BATTERY CABINET HOUSING ASSEMBLY 12V 18 AH BATTERY W/ UNIVERSAL TERMINALS 72V 26 AH BATTERY W/ UNIVERSAL TERMINALS 12V 7 AH BATTERY W/ UNIVERSAL TERMINALS 12V 18 AH BATTERY W/ UN	HONEYWELL POWER SONIC POWER SONIC DITEK CORP. POWER SONIC DITEK CORP. HONEYWELL
C POWER SUPPLY C Field Devices	2 2 2 2 2 2 2 2 4 2 2 4 4 4 4 4 4 4 4 4	SBB-C4 XLS-DR-C4 VP-2B DP-1B DAA2-5070 BDA-70V ADP2-640 XLS140-CPU2 KDM-R2 BMP-1 NCM-W XLS-LBB PS-12180 (PS-12260 AL842ULADA PS-1270 DTK-120HW S464G1007 MPSR1-SHTW-GE TC806B3010 B300-6 RA100Z TC806DNR3000 DNR DST5 ** RTS151KEY TC810R1024 TC809A1059 TC809D1004 CB500 AFAWS-TELC AFAWS-BX AFAWS-LS XP10-M CHS-6	BACKBOX ASSEMBLY, 3 TIERS (C SIZE), BLACK 3 TIER DOOR ASSEMBLY, BLACK W/ WINDOWS VENT PLATE FOR COVERING THE SMALL GAP AT THE TOP OF THE CABINET BLANK DRESS PANEL, COVERS ONE CAB-4 TIER DIGITAL AUDIO AMPLIFIER (50 W, 70 VRMS) BACKUP DIGITAL AUDIO AMPLIFIER, 70.7 VRMS DRESS PANEL USED W/ NCA2/XLS140-CPU2 IN LOWER ROW CENTRAL PROCESSOR UNIT (W/ CHS2-M2 CHASSIS) 80 CHARACTER DISPLAY WITH KEYBOARD BLANK PLATE FOR EMPTY DP-DISP SLOTS NETWORK CONTROL MODULE, WIRE BATTERY CABINET HOUSING ASSEMBLY 12V 18 AH BATTERY W/ UNIVERSAL TERMINALS 12V 26 AH BATTERY W/ UNIVERSAL TERMINALS 12V 7 AND ANTIENT VOLTAGE SURGE PROTECTOR MANUAL PULL STATION, ADDRESSABLE SINGLE ACTION, SPST, HEX KEY RESET, WEATHERPROOF WHITE, INTELLIGENT PHOTOELECTRIC SENSOR, FLASHSCAN ONLY WHITE, ISTANDARD FLANGED LOW-PROFILE MOUNTING BASE REMOTE LED ANNUNCIATOR WHITE, INTELLIGENT PHOTOELECTRIC SENSOR, REMOTE TEST CAPABLE, FLASHSCAN ONLY INNOVAIRLEX LOW-FLOW NON-RELAY DUCT-DETECTOR HOUSING SAMPLING TUBE, DUCT WITH KEY FLASHSCAN RELAY MODULE FLASHSCAN RELAY MODULE FLASHSCAN MONITOR MODULE FLASHSCAN TELA MONITOR MODULE MODULE VOLTAGE SAFETY BARRIER TELEPHONE CABINET ASSEMBLY W/COILED CORD. BACKBOX FOR AFAWS TELEPHONE LATCH DOOR, SURFACE MOUNT, FOR AFAWS TELEPHONE FLASHSCAN TEL-PHONE LATCH DOOR, SURFACE MOUNT, FOR AFAWS TELEPHONE FLASHSCAN TEN-PHOT MONTOR MODULE MOUNTING CHASSIS FOR XP BOARDS	HONEYWELL POWER SONIC POWER SONIC POWER SONIC DITEK CORP. POWER SONIC DITEK CORP. HONEYWELL
C POWER SUPPLY C Field Devices	2 2 2 2 2 2 2 2 4 2 2 4 4 4 4 4 4 4 4 4	SBB-C4 XLS-DR-C4 VP-2B DP-1B DAA2-5070 BDA-70V ADP2-640 XLS140-CPU2 KDM-R2 BMP-1 NCM-W XLS-LBB PS-12180 (PS-12260 AL842ULADA PS-1270 DTK-120HW S464G1007 MPSR1-SHTW-GE TC806B3010 B300-6 RA100Z TC806DNR3000 DNR DST5 ** RTS151KEY TC810R1024 TC809A1059 TC809D1004 CB500 AFAWS-TELC AFAWS-BX AFAWS-LS XP10-M CHS-6 BB-25	BACKBOX ASSEMBLY, 3 TIERS (C SIZE), BLACK 3 TIER DOOR ASSEMBLY, BLACK W/ WINDOWS VENT PLATE FOR COVERING THE SMALL GAP AT THE TOP OF THE CABINET BLANK DRESS PANEL, COVERS ONE CAB-4 TIER DIGITAL AUDIO AMPLIFIER (50 W, 70 VRMS) BACKUP DIGITAL AUDIO AMPLIFIER, 70.7 VRMS DRESS PANEL USED W/ NCA2/XLS140-CPU2 IN LOWER ROW CENTRAL PROCESSOR UNIT (W/ CHS2-M2 CHASSIS) BO CHARACTER DISPLAY WITH KEYBOARD BLANK PLATE FOR EMPTY DP-DISP SLOTS NETWORK CONTROL MODULE, WIRE BATTERY CABINET HOUSING ASSEMBLY 12V 18 AH BATTERY W/ UNIVERSAL TERMINALS 12V 26 AH BATTERY W/ UNIVERSAL TERMINALS 12V 7 AH BATTERY W/ UNIVERSAL TERMINALS 12V TRANSIENT VOLTAGE SURGE PROTECTOR MANUAL PULL STATION, ADDRESSABLE SINGLE ACTION, SPST, HEX KEY RESET, WEATHERPROOF WHITE, INTELLIGENT PHOTOELECTRIC SENSOR, FLASHSCAN ONLY WHITE, STANDARD FLANGED LOW-PROFILE MOUNTING BASE REMOTE LED ANNUNCIATOR WHITE, INTELLIGENT PHOTOELECTRIC SENSOR, REMOTE TEST CAPABLE, FLASHSCAN ONLY INNOVAIRFLEX LOW-FLOW NON-RELAY DUCT-DETECTOR HOUSING SAMPLING TUBE, DUCT WIDTHS 4FT TO 8FT REMOTE TEST STATION WITH KEY FLASHSCAN TELEP HOW DULE FLASHSCAN DUAL MONITOR MODULE MODULE VOLTAGE SAFETY BARRIER TELEPHONE CABINET ASSEMBLY W/COILED CORD. BACKBOX FOR AFAWS TELEPHONE LATCH DOOR, SURFACE MOUNT, FOR AFAWS TELEPHONE FLASHSCAN TEN-INPUT MONITOR MODULE MOUNTING CHASSIS FOR XP BOARDS SMALL, CABINET ASSEMBLY W/COILED CORD.	HONEYWELL POWER SONIC POWER SONIC POWER SONIC DITEK CORP. HONEYWELL
C POWER SUPPLY C Field Devices	2 2 2 2 2 2 2 2 4 2 2 4 4 4 4 4 4 4 4 4	SBB-C4 XLS-DR-C4 VP-2B DP-1B DAA2-5070 BDA-70V ADP2-640 XLS140-CPU2 KDM-R2 BMP-1 NCM-W XLS-LBB PS-12180 (PS-12260 AL842ULADA PS-1270 DTK-120HW S464G1007 MPSR1-SHTW-GE TC806B3010 B300-6 RA100Z TC806DNR3000 DNR DST5 ** RTS151KEY TC810R1024 TC809A1059 TC809D1004 CB500 AFAWS-TELC AFAWS-BX AFAWS-LS XP10-M CHS-6	BACKBOX ASSEMBLY, 3 TIERS (C SIZE), BLACK 3 TIER DOOR ASSEMBLY, BLACK W/ WINDOWS VENT PLATE FOR COVERING THE SMALL GAP AT THE TOP OF THE CABINET BLANK DRESS PANEL, COVERS ONE CAB-4 TIER DIGITAL AUDIO AMPLIFIER (50 W, 70 VRMS) BACKUP DIGITAL AUDIO AMPLIFIER, 70.7 VRMS DRESS PANEL USED W/ NCA2/XLS140-CPU2 IN LOWER ROW CENTRAL PROCESSOR UNIT (W/ CHS2-M2 CHASSIS) 80 CHARACTER DISPLAY WITH KEYBOARD BLANK PLATE FOR EMPTY DP-DISP SLOTS NETWORK CONTROL MODULE, WIRE BATTERY CABINET HOUSING ASSEMBLY 12V 18 AH BATTERY W/ UNIVERSAL TERMINALS 12V 26 AH BATTERY W/ UNIVERSAL TERMINALS 12V 7 AND ANTIENT VOLTAGE SURGE PROTECTOR MANUAL PULL STATION, ADDRESSABLE SINGLE ACTION, SPST, HEX KEY RESET, WEATHERPROOF WHITE, INTELLIGENT PHOTOELECTRIC SENSOR, FLASHSCAN ONLY WHITE, ISTANDARD FLANGED LOW-PROFILE MOUNTING BASE REMOTE LED ANNUNCIATOR WHITE, INTELLIGENT PHOTOELECTRIC SENSOR, REMOTE TEST CAPABLE, FLASHSCAN ONLY INNOVAIRLEX LOW-FLOW NON-RELAY DUCT-DETECTOR HOUSING SAMPLING TUBE, DUCT WITH KEY FLASHSCAN RELAY MODULE FLASHSCAN RELAY MODULE FLASHSCAN MONITOR MODULE FLASHSCAN TELA MONITOR MODULE MODULE VOLTAGE SAFETY BARRIER TELEPHONE CABINET ASSEMBLY W/COILED CORD. BACKBOX FOR AFAWS TELEPHONE LATCH DOOR, SURFACE MOUNT, FOR AFAWS TELEPHONE FLASHSCAN TEL-PHONE LATCH DOOR, SURFACE MOUNT, FOR AFAWS TELEPHONE FLASHSCAN TEN-PHOT MONTOR MODULE MOUNTING CHASSIS FOR XP BOARDS	HONEYWELL POWER SONIC POWER SONIC POWER SONIC DITEK CORP. POWER SONIC DITEK CORP. HONEYWELL
C POWER SUPPLY C Field Devices	2 2 2 2 2 2 2 2 2 4 4 2 2 2 4 4 4 4 4 4	SBB-C4 XLS-DR-C4 VP-2B DP-1B DAA2-5070 BDA-70V ADP2-640 XLS140-CPU2 KDM-R2 BMP-1 NCM-W XLS-LBB PS-12180 PS-12260 AL842ULADA PS-1270 DTK-120HW S464G1007 MPSR1-SHTW-GE TC806B3010 B300-6 RA100Z TC806DNR3000 DNR DST5 ** RTS151KEY TC810R1024 TC809A1059 TC809D1004 CB500 AFAWS-TELC AFAWS-BX AFAWS-LS XP10-M CHS-6 BB-25 RIBU1C	BACKBOX ASSEMBLY, 3 TIERS (C SIZE), BLACK 3 TIER DOOR ASSEMBLY, BLACK W/ WINDOWS VENT PLATE FOR COVERING THE SMALL GAP AT THE TOP OF THE CABINET BLANK DRESS PANEL, COVERS ONE CAB-4 TIER DIGITAL AUDIO AMPLIFIER (50 W, 70 VRMS) BACKUP DIGITAL AUDIO AMPLIFIER, 70.7 VRMS DRESS PANEL USED W/ NCAZ/XLS140-CPUZ IN LOWER ROW CENTRAL PROCESSOR UNIT (W/ CHS2-M2 CHASSIS) 80 CHARACTER DISPLAY WITH KEYBOARD BLANK PLATE FOR EMPTY DP-DISP SLOTS NETWORK CONTROL MODULE, WIRE BATTERY CABINET HOUSING ASSEMBLY 12V 12 AH BATTERY W/ UNIVERSAL TERMINALS 12V 26 AH BATTERY W/ UNIVERSAL TERMINALS 12V 7 AH BATTERY W/ UNIVERSAL TERMINALS 12V 8 AH BATTERY W/ UNIVERSAL TERMINALS 12V 1 AH BATTERY W/ UNIVERSAL TERMINALS 12V 2 AH BATTERY W/ UNIVERSAL TERMINALS 12V 1 AH BATTERY W/ UNIVERSAL TERMINALS 12V 2 AH BATTERY W/ UNIVERSAL TERMINALS 12V 2 AH BATTERY W/ UNIVERSAL TERMINALS 12V 2 AH BATTERY W/ UNIVERSAL TERMINALS 12V 3 AH BATTERY W/ UNIVERSAL TERMINALS 12V 2 AH BATTERY W/ U	HONEYWELL POWER SONIC POWER SONIC DITEK CORP. HONEYWELL
C POWER SUPPLY C Field Devices	2 2 2 2 2 2 2 2 2 4 4 2 2 2 4 4 4 4 4 4	SBB-C4 XLS-DR-C4 VP-2B DP-1B DAA2-5070 BDA-70V ADP2-640 XLS140-CPU2 KDM-R2 BMP-1 NCM-W XLS-LBB PS-12180 (PS-12260 AL842ULADA PS-1270 DTK-120HW S464G1007 MPSR1-SHTW-GE TC806B3010 B300-6 RA100Z TC806DNR3000 DNR DST5 ** RTS151KEY TC810R1024 TC809A1059 TC809D1004 CB500 AFAWS-TELC AFAWS-BX AFAWS-LS XP10-M CHS-6 BB-25 RIBU1C	BACKBOX ASSEMBLY, 3 TIERS (C SIZE), BLACK 3 TIER DOOR ASSEMBLY, BLACK W/ WINDOWS VENT PLATE FOR COVERING THE SMALL GAP AT THE TOP OF THE CABINET BLANK DRESS PANEL, COVERS ONE CAB-4 TIER DIGITAL AUDIO AMPLIFIER (50 W, 70 VRMS) BACKUP DIGITAL AUDIO AMPLIFIER, 70.7 VRMS BACKUP DIGITAL AUDIO AMPLIFIER, 70.7 VRMS DRESS PANEL USED W/ NCA2/XLS140-CPUZ IN LOWER ROW CENTRAL PROCESSOR UNIT (W/ CHS2-M2 CHASSIS) 80 CHARACTER DISPLAY WITH KEYBOARD BLANK PLATE FOR EMPTY DP-DISP SLOTS NETWORK CONTROL MODULE, WIRE BATTERY CABINET HOUSING ASSEMBLY 12V 18 AH BATTERY W/ UNIVERSAL TERMINALS 12V 26 AH BATTERY W/ UNIVERSAL TERMINALS 12V 7 AH BATTERY W/ UNIVERSAL TERMINALS 12V TRANSIENT VOLTAGE SURGE PROTECTOR MANUAL PULL STATION, ADDRESSABLE SINGLE ACTION, SPST, HEX KEY RESET, WEATHERPROOF WHITE, INTELLIGENT PHOTOELECTRIC SENSOR, FLASHSCAN ONLY WHITE, STANDARD FLANGED LOW-PROFILE MOUNTING BASE REMOTE LED ANNUNCIATOR WHITE, INTELLIGENT PHOTOELECTRIC SENSOR, REMOTE TEST CAPABLE, FLASHSCAN ONLY INNOVAIRFLEX LOW-FLOW NON-RELAY DUCT-DETECTOR HOUSING SAMPLING TUBE, DUCT WIDTHS 4FT TO 8FT REMOTE TEST STATION WITH KEY FLASHSCAN MONITOR MODULE FLASHSCAN FLAY MODULE FLASHSCAN FLAY MODULE FLASHSCAN FLAY MODULE FLASHSCAN FOR AFAWS TELEPHONE LATCH DOOR, SURFACE MOUNT, FOR AFAWS TELEPHONE FLASHSCAN TOWN ONLY SCHS-6) ENCLOSED PILOT RELAY 10 AMP SPDT WITH 10-30 VAC/DC/120 VAC COIL SPEAKER STROBE, WALL MOUNT, RED, "FIRE" MARKING	HONEYWELL POWER SONIC POWER SONIC POWER SONIC DITEK CORP. POWER SONIC DITEK CORP. HONEYWELL
C POWER SUPPLY C Field Devices	2 2 2 2 2 2 2 2 2 4 4 2 2 2 4 4 4 4 4 4	SBB-C4 XLS-DR-C4 VP-2B DP-1B DAA2-5070 BDA-70V ADP2-640 XLS140-CPU2 KDM-R2 BMP-1 NCM-W XLS-LBB PS-12180 PS-12260 AL842ULADA PS-1270 DTK-120HW S464G1007 MPSR1-SHTW-GE TC806B3010 B300-6 RA100Z TC806DNR3000 DNR DST5 ** RTS151KEY TC810R1024 TC809A1059 TC809D1004 CB500 AFAWS-TELC AFAWS-BX AFAWS-LS XP10-M CHS-6 BB-25 RIBU1C	BACKBOX ASSEMBLY, 3 TIERS (C SIZE), BLACK 3 TIER DOOR ASSEMBLY, BLACK W/ WINDOWS VENT PLATE FOR COVERING THE SMALL GAP AT THE TOP OF THE CABINET BLANK DRESS PANEL, COVERS ONE CAB-4 TIER DIGITAL AUDIO AMPLIFIER (50 W, 70 VRMS) BACKUP DIGITAL AUDIO AMPLIFIER, 70.7 VRMS DRESS PANEL USED W/ NCAZ/XLS140-CPUZ IN LOWER ROW CENTRAL PROCESSOR UNIT (W/ CHS2-M2 CHASSIS) 80 CHARACTER DISPLAY WITH KEYBOARD BLANK PLATE FOR EMPTY DP-DISP SLOTS NETWORK CONTROL MODULE, WIRE BATTERY CABINET HOUSING ASSEMBLY 12V 12 AH BATTERY W/ UNIVERSAL TERMINALS 12V 26 AH BATTERY W/ UNIVERSAL TERMINALS 12V 7 AH BATTERY W/ UNIVERSAL TERMINALS 12V 8 AH BATTERY W/ UNIVERSAL TERMINALS 12V 1 AH BATTERY W/ UNIVERSAL TERMINALS 12V 2 AH BATTERY W/ UNIVERSAL TERMINALS 12V 1 AH BATTERY W/ UNIVERSAL TERMINALS 12V 2 AH BATTERY W/ UNIVERSAL TERMINALS 12V 2 AH BATTERY W/ UNIVERSAL TERMINALS 12V 2 AH BATTERY W/ UNIVERSAL TERMINALS 12V 3 AH BATTERY W/ UNIVERSAL TERMINALS 12V 2 AH BATTERY W/ U	HONEYWELL POWER SONIC POWER SONIC DITEK CORP. HONEYWELL

^{** -} EXACT SAMPLING TUBE SIZE TO BE VERIFIED BEFORE ORDERING

HONEYWELL DESIGN: James Hodson

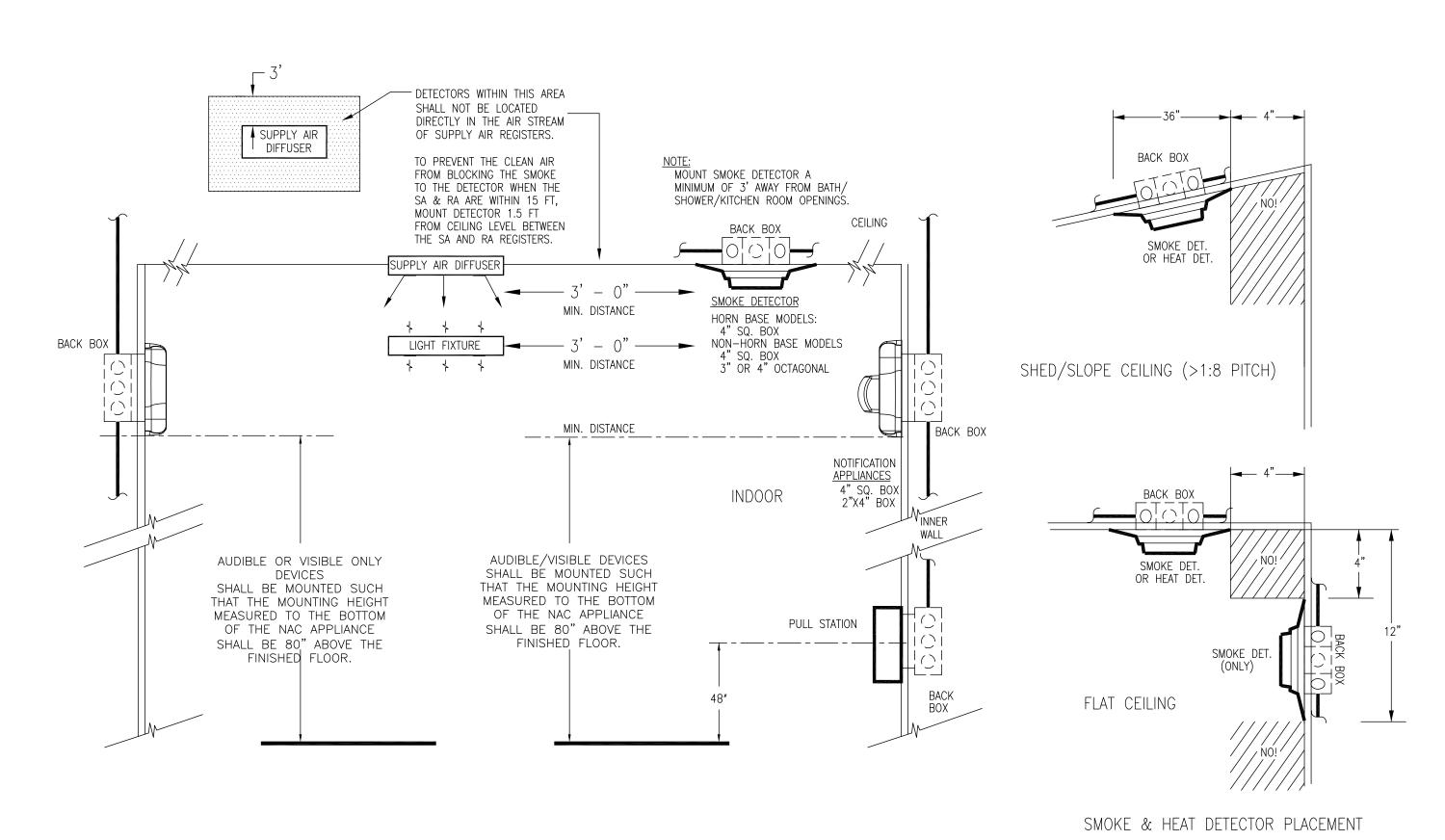
HONEYWELL INSTALLATION: Brice LeBlanc

DRAFTER: James Hodson

CONTRACTOR: ES Boulos Co.

SYSTEM DESIGN: AKF Group LLC

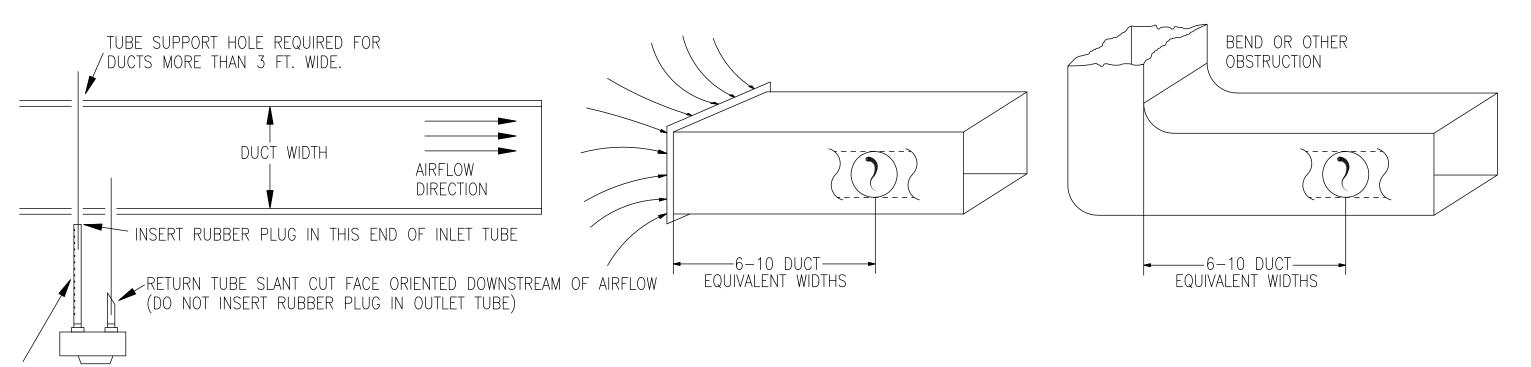
REV F		BY	Bill of Material	
REV E		BY		
REV D		BY	Homeywell ExpertISE	©
REV C		BY	207 Larrabee Road Westbrook, Maine, 04092-5	108
			Maine Medical Center	
REV B	Re-Issued For Review	BY	East Tower Expansion	
Jun 27/19		JH	XLS140—2 Fire Alarm System	
REV A	Issued For Review	BY	22 Bramhall Street Portland, ME 0410	02
Jan 23/19		JH	DRAWING LICE 047007 FAC 4	REV
			DRAWING USB-017267-FA0.4	В



GENERAL NOTES:

- A. DO NOT APPLY POWER TO ANY DEVICE UNTIL AUTHORIZED BY A HONEYWELL REPRESENTATIVE.
- B. SEE FLOOR PLANS FOR ALL DEVICE LOCATIONS, DEVICE COUNTS, AND DEVICE ADDRESSES.
- C. FOLLOW DEVICE INSTALLATION INSTRUCTIONS INCLUDED WITH DEVICES.
- D. DETECTOR GUIDELINES:
 - NO SMOKE DETECTORS ALLOWED IN GARAGES.
 - NO SMOKE DETECTORS ALLOWED IN UNFINISHED ATTICS.
 - NO SMOKE DETECTORS ALLOWED IN AREAS WITH >100°F OR <40°F. ION SMOKE DETECTORS MUST BE > 20' FROM COOKING APPLIANCES.
 - (PHOTO SMOKE DETECTORS ALLOWED <20' FROM COOKING APPLIANCE)
 - NO SMOKE DETECTORS WITHIN 3' FROM DOOR TO KITCHEN OR SHOWER/TUB ROOM
 - NO SMOKE DETECTORS WITHIN 3' HORIZONTAL FROM CEILING FAN BLADE TIP. SMOKE DETECTORS ARE REQUIRED IN BASEMENTS ON CEILING ADJACENT TO STAIRWELLS.





INLET TUBE HOLES FACE UPSTREAM OF AIRFLOW

RETURN AIR SYSTEMS:

SMOKE DETECTORS SHALL BE INSTALLED IN RETURN AIR SYSTEMS WITH A DESIGN CAPACITY GREATER THAN 2000 CFM (0.09 m/s) IN THE RETURN AIR DUCT OR PLENUM UPSTREAM OF ANY FILTERS, EXHAUST AIR CONNECTIONS, OUTDOOR AIR CONNECTIONS OR DECONTAMINATION EQUIPMENT AND APPLIANCES.

COMMON SUPPLY AND RETURN AIR SYSTEMS:

WHERE MULTIPLE AIR HANDLING SYSTEMS SHARE COMMON SUPPLY OR RETURN AIR DUCTS OR PLENUMS WITH A COMBINED DESIGN CAPACITY GREATER THAN 2000 CFM (0.9m3/s), THE RETURN AIR SYSTEM SHALL BE PROVIDED WITH SMOKE DETECTORS.

RETURN AIR RISERS:

WHERE RETURN AIR RISERS SERVE TWO OR MORE STOREYS AND SERVE ANY PORTION OF A RETURN AIR SYSTEM HAVING A DESIGN CAPACITY GREATER THAN 15000 CFM (7.1m3/s), SMOKE DETECTORS SHALL BE INSTALLED AT EACH STOREY. SUCH SMOKE DETECTORS SHALL BE LOCATED UPSTREAM OF THE CONNECTION BETWEEN THE RETURN AIR RISER AND ANY AIR DUCTS OR PLENUMS

SUPPLY AIR SMOKE DETECTORS:

IF INSTALLED, SUPPLY AIR SMOKE DETECTORS SHALL BE MOUNTED IN THE DUCT DOWNSTREAM OF BOTH THE FAN AND THE FILTERS. ADDITIONAL SMOKE DETECTORS IN THE SUPPLY AIR SYSTEM ARE NOT REQUIRED WHERE THE AIR PASSES THROUGH OTHER SMOKE COMPARTMENTS.

SMOKE DAMPERS THAT ARE PART OF A SMOKE BARRIER SHALL BE INSTALLED IN THE PLANE OF THE FIRE PARTITION AND NOT AFTER THE FIRST AIR DUCT INLET OR OUTLET, WHICHEVER IS CLOSER TO THE SMOKE BARRIER. IF THE SMOKE DAMPER IS CONTROLLED BY AIR SYSTEM SMOKE DETECTOR IT SHALL BE LOCATED UPSTREAM OF THE SMOKE DAMPER BUT AFTER ANY INLET OR OUTLET IN

WHERE IN-DUCT SMOKE DETECTORS ARE INSTALLED IN CONCEALED LOCATIONS MORE THAN 10ft ABOVE THE FINISHED FLOOR, OR IN ARRANGEMENTS WHERE THE DETECTOR'S ALARM LIGHT IS NOT READILY VISIBLE TO RESPONDING PERSONNEL, THE DETECTOR SHALL BE PROVIDED WITH REMORE ALARM INDICATORS TO BE INSTALLED IN A READILY ACCESSIBLE LOCATION AND SHALL BE CLEARLY LABELED TO INDICATE BOTH THEIR FUNCTION AND THE AIR HANDLING UNIT(S) ASSOCIATED WITH EACH DETECTOR. (EXCEPTION: WHERE THE SPECIFIC DETECTOR IN ALARM IS INDICATED AT THE CONTROL UNIT)



SMOKE DETECTOR INSTALLATION GUIDELINES

SCRO DE LA CONTRACTION DE LA C
Reviewed for Code Compliance Permitting and Inspections Department Approved with Conditions
11/19/2019

PROJECT DESIGN: Perkins + Will

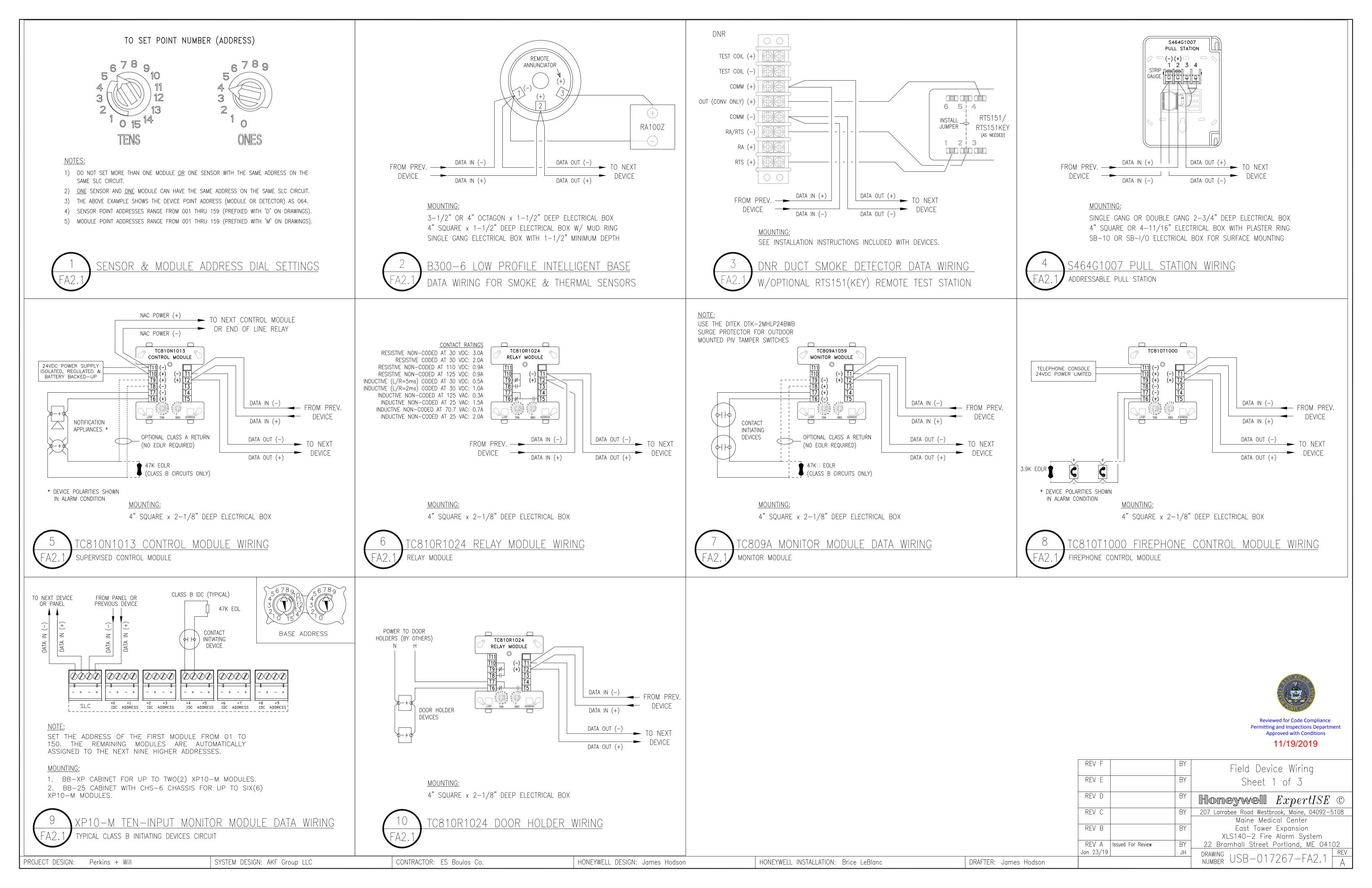
REV F		BY	Typical Field Device
REV E		BY	Installation Guide
REV D		BY	Horeywell ExpertISE ©
REV C		BY	207 Larrabee Road Westbrook, Maine, 04092—5108 Maine Medical Center
REV B		BY	East Tower Expansion XLS140—2 Fire Alarm System
	Issued For Review	BY	22 Bramhall Street Portland, ME 04102
Jan 23/19		JH	DRAWING USB-017267-FA1.1
			NUMBER USD-UT/Z0/-F/

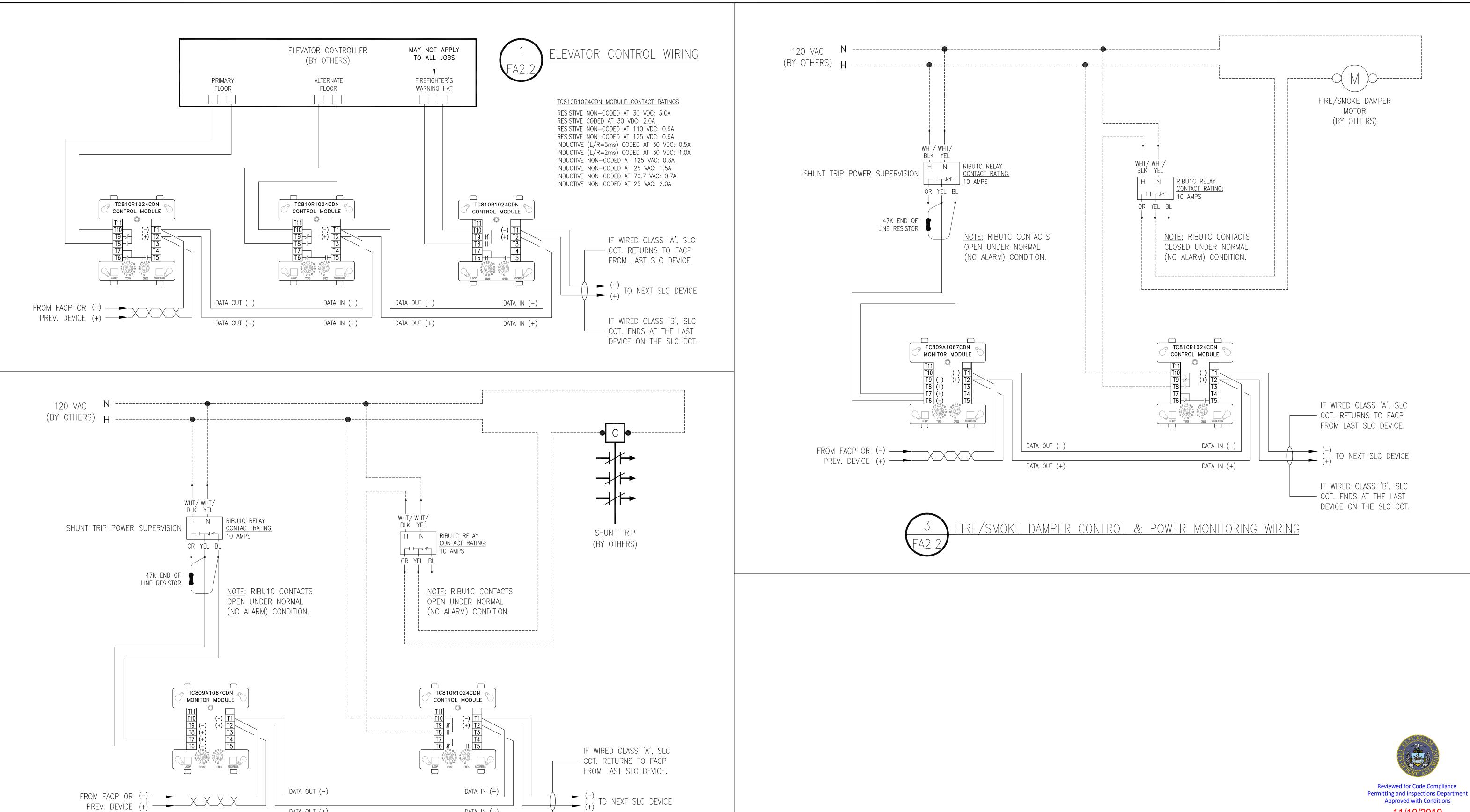
SYSTEM DESIGN: AKF Group LLC

CONTRACTOR: ES Boulos Co.

HONEYWELL INSTALLATION: Brice LeBlanc

HONEYWELL DESIGN: James Hodson





DATA OUT (+)

SYSTEM DESIGN: AKF Group LLC

PROJECT DESIGN: Perkins + Will

LEVATOR SHUNT TRIP & POWER MONITORING WIRING

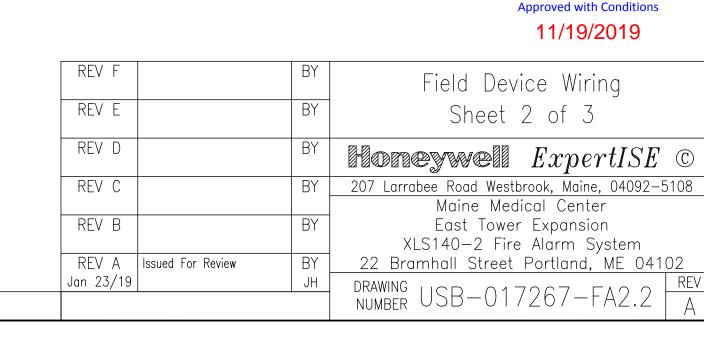
DATA IN (+)

CONTRACTOR: ES Boulos Co.

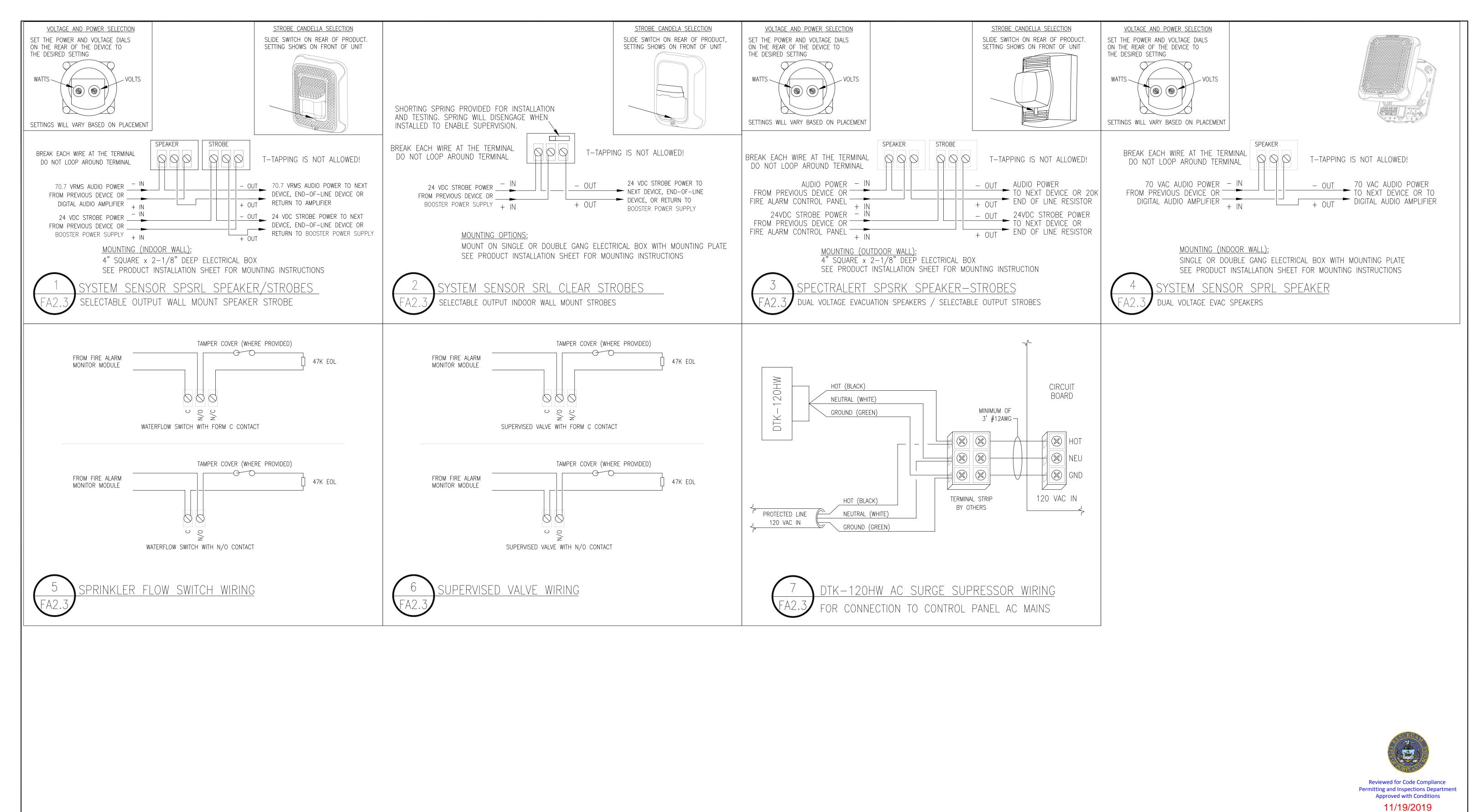
IF WIRED CLASS 'B', SLC

DEVICE ON THE SLC CCT.

- CCT. ENDS AT THE LAST



HONEYWELL DESIGN: James Hodson HONEYWELL INSTALLATION: Brice LeBlanc DRAFTER: James Hodson



HONEYWELL DESIGN: James Hodson

HONEYWELL INSTALLATION: Brice LeBlanc

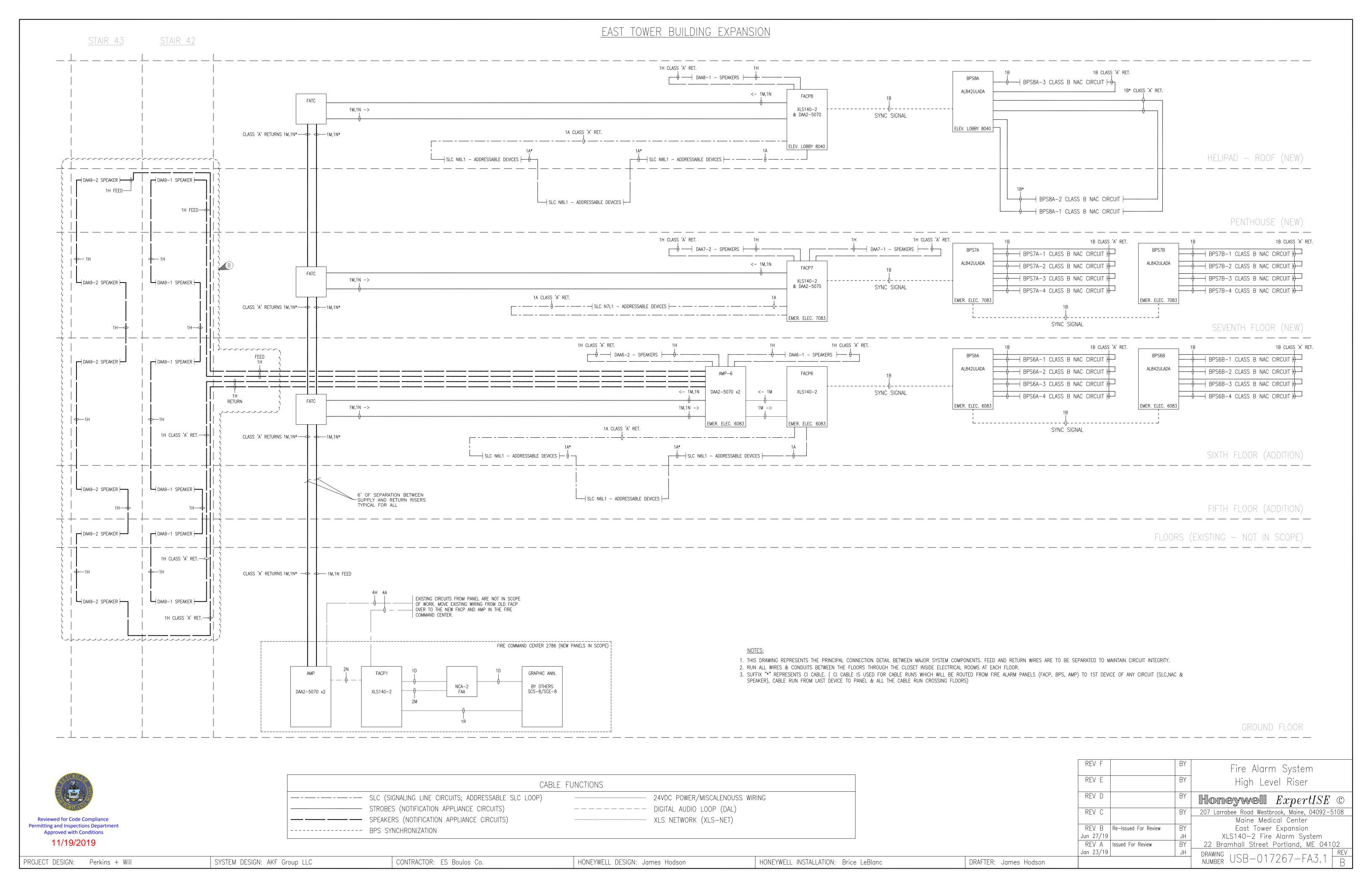
DRAFTER: James Hodson

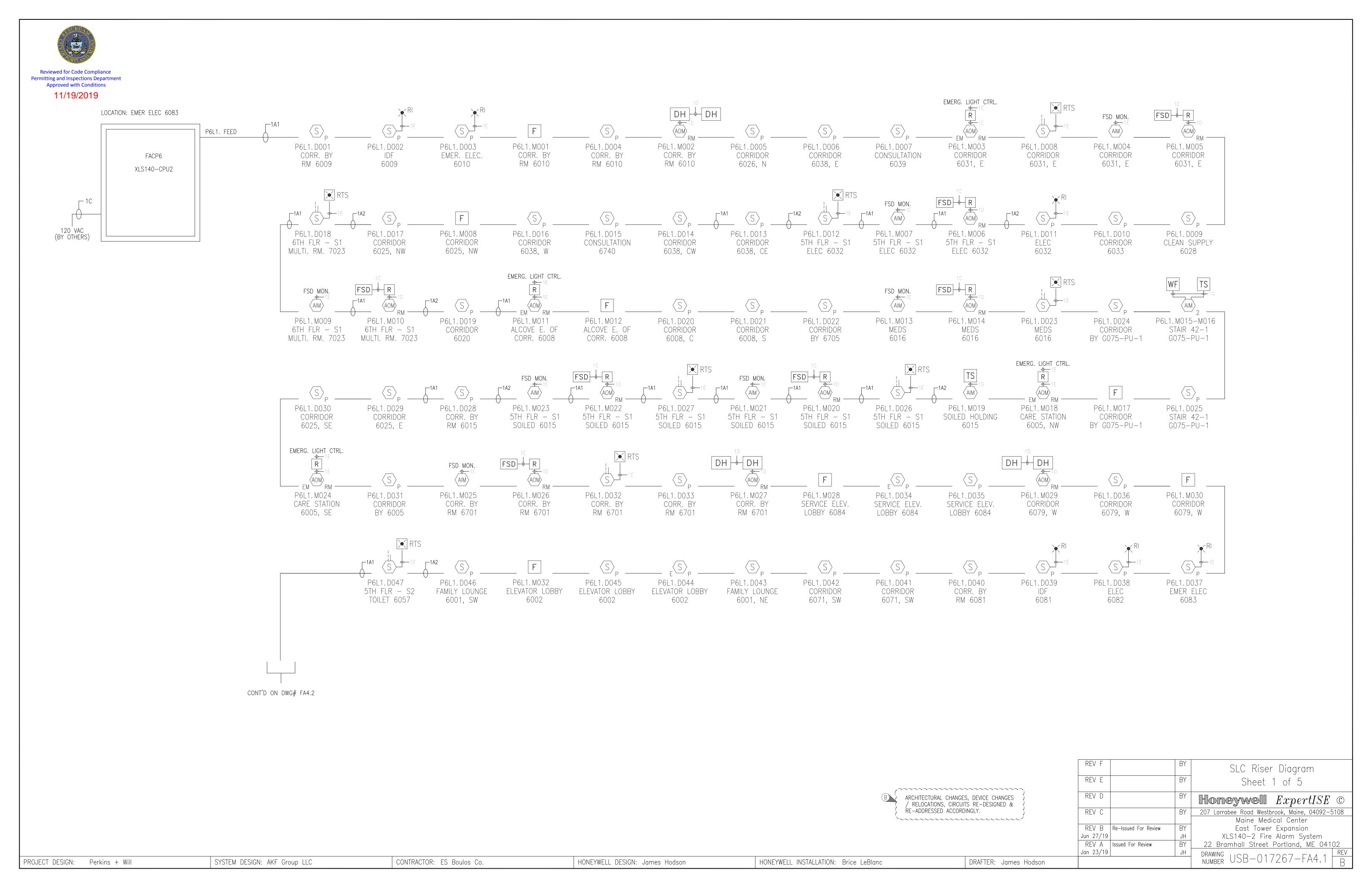
PROJECT DESIGN: Perkins + Will

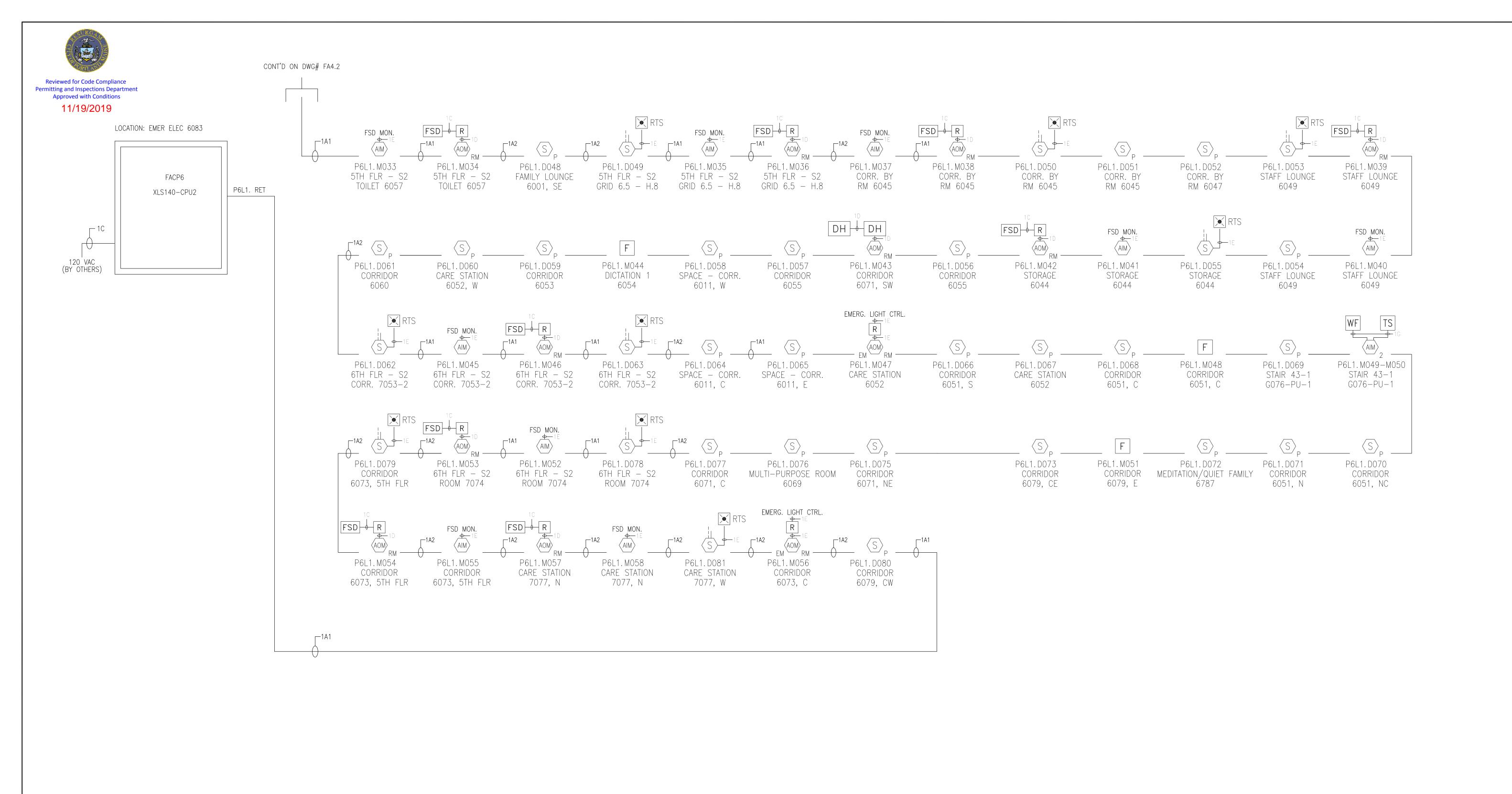
SYSTEM DESIGN: AKF Group LLC

CONTRACTOR: ES Boulos Co.







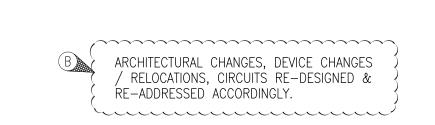


HONEYWELL DESIGN: James Hodson

SYSTEM DESIGN: AKF Group LLC

PROJECT DESIGN: Perkins + Will

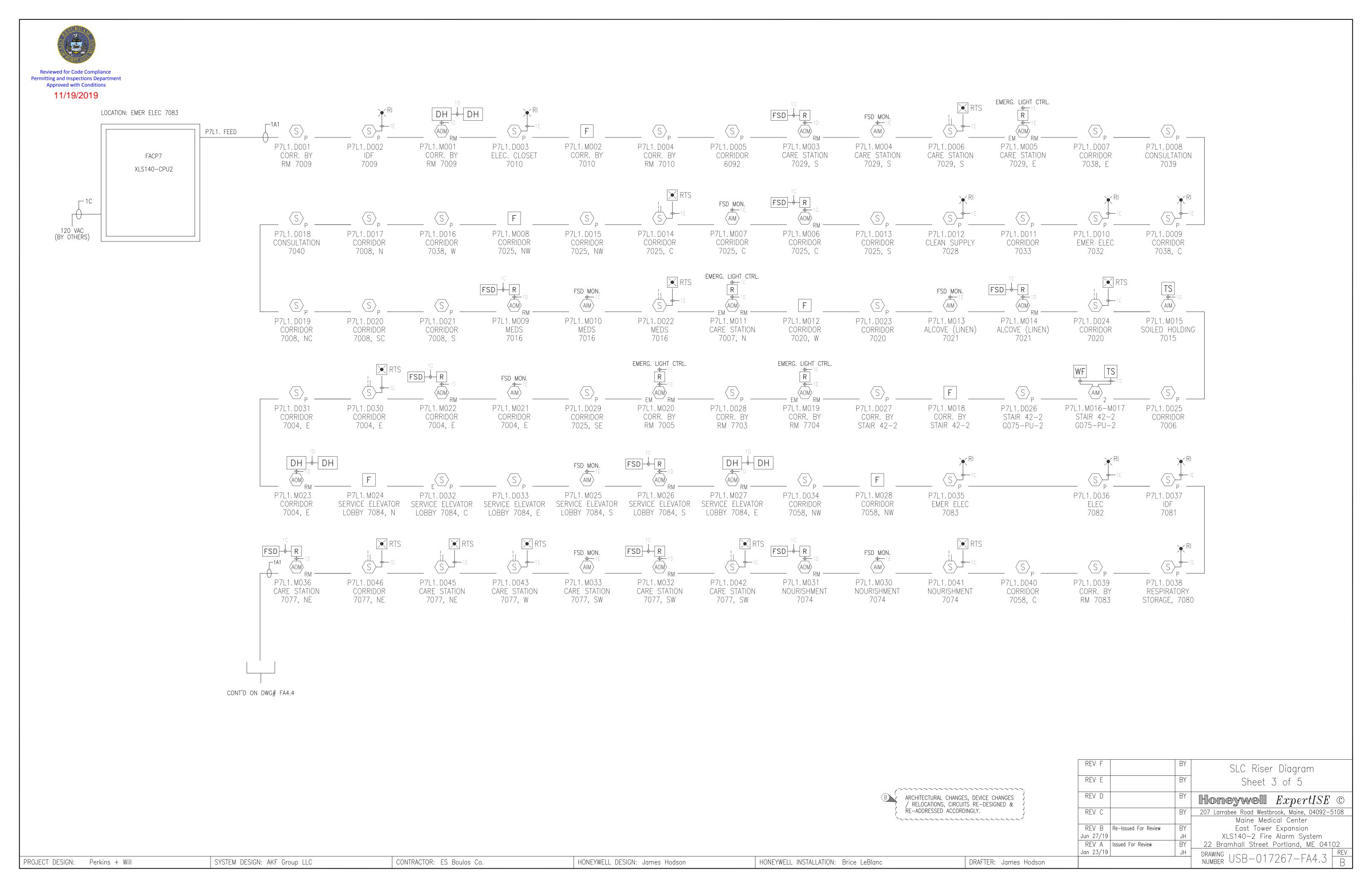
CONTRACTOR: ES Boulos Co.

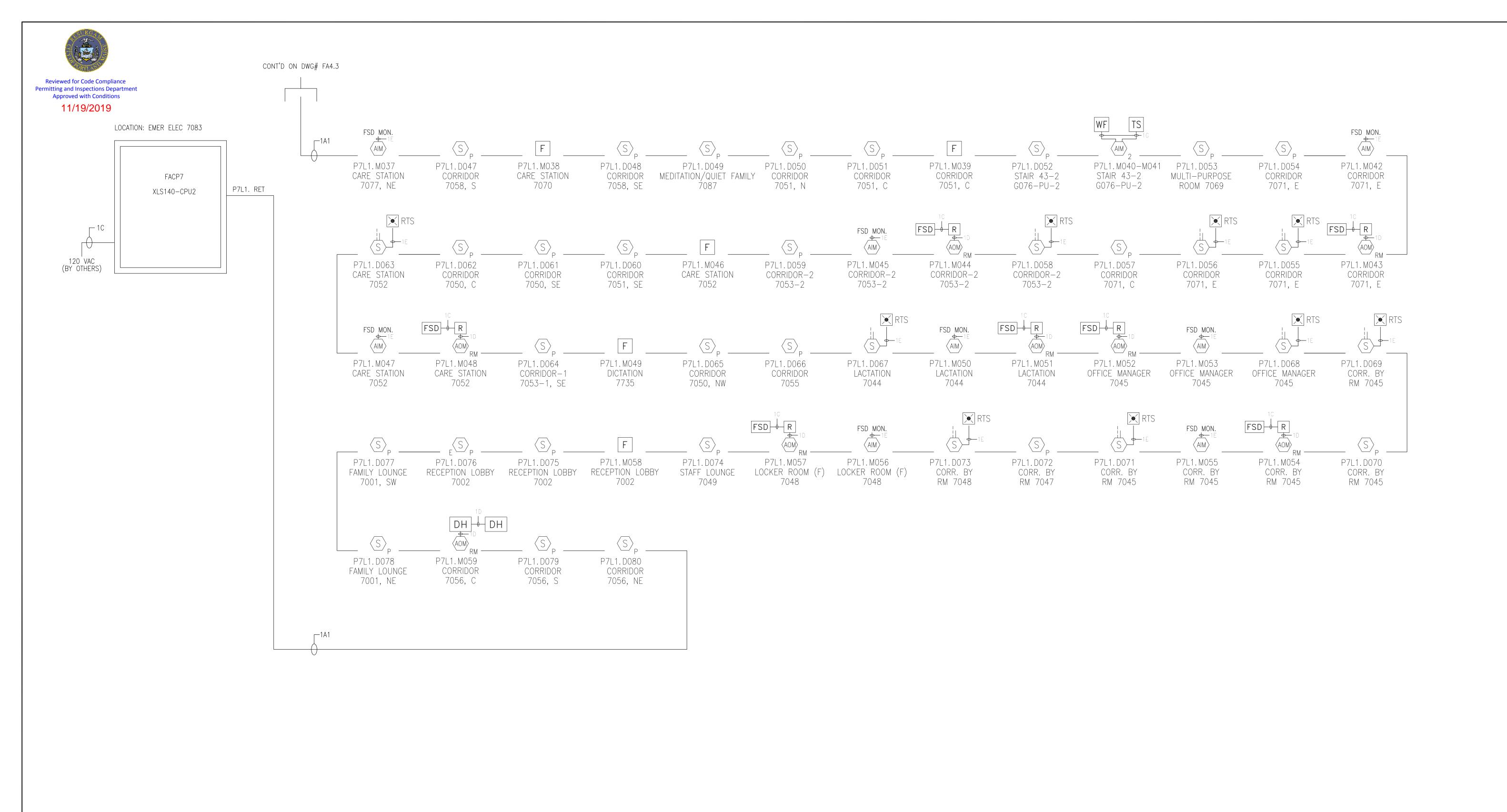


DRAFTER: James Hodson

HONEYWELL INSTALLATION: Brice LeBlanc

REV F		BY	SLC Riser Diagram
REV E		BY	Sheet 2 of 5
REV D		BY	Horeywell ExpertISE ©
REV C		BY	207 Larrabee Road Westbrook, Maine, 04092-5108
			Maine Medical Center
REV B	Re-Issued For Review	BY	East Tower Expansion
Jun 27/19		JH	XLS140—2 Fire Alarm System
	Issued For Review	BY	22 Bramhall Street Portland, ME 04102
Jan 23/19		JH	DRAWING LICE 017007 FA10 REV
			DRAWING USB-017267-FA4.2 REV R



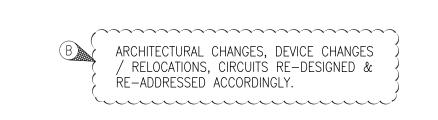


HONEYWELL DESIGN: James Hodson

PROJECT DESIGN: Perkins + Will

SYSTEM DESIGN: AKF Group LLC

CONTRACTOR: ES Boulos Co.

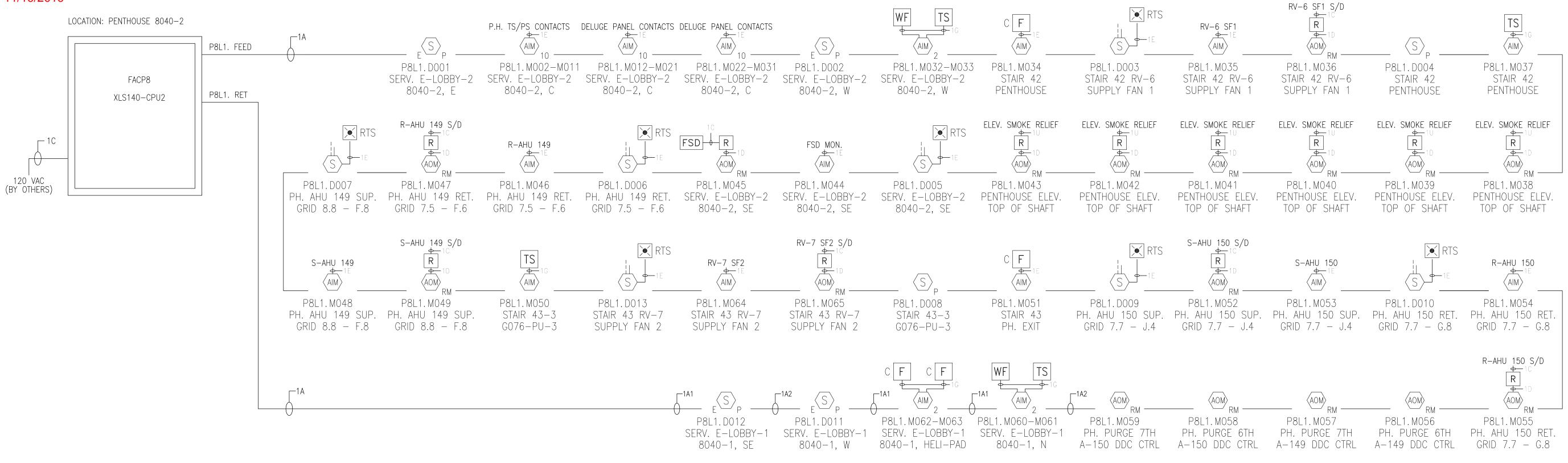


DRAFTER: James Hodson

HONEYWELL INSTALLATION: Brice LeBlanc

REV F		BY	SLC Riser Diagram
REV E		BY	Sheet 4 of 5
REV D		BY	Homeywell ExpertISE ©
REV C		BY	207 Larrabee Road Westbrook, Maine, 04092-5108
			Maine Medical Center
REV B	Re-Issued For Review	BY	East Tower Expansion
Jun 27/19		JH	XLS140—2 Fire Alarm System
REV A	Issued For Review	BY	22 Bramhall Street Portland, ME 04102
Jan 23/19		JH	DRAWING LICE 017007 FA 1 REV
			DRAWING USB-017267-FA4.4 B



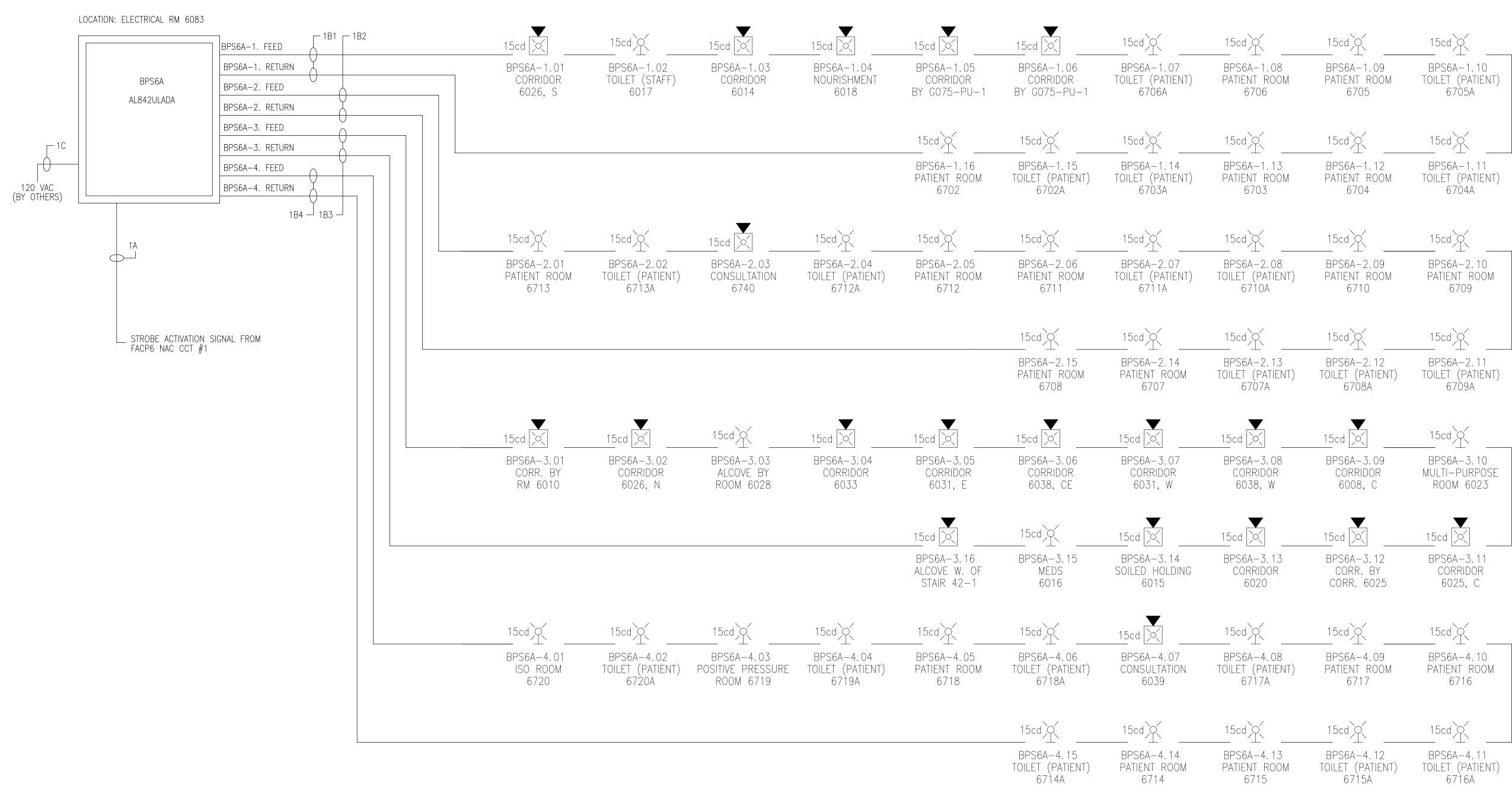


ARCHITECTURAL CHANGES, DEVICE CHANGES / RELOCATIONS, CIRCUITS RE-DESIGNED & RE-ADDRESSED ACCORDINGLY.
--

REV F		BY	SLC Riser Diagram	
REV E		BY	Sheet 5 of 5	
REV D		BY	Horeywell ExpertISE	(C)
REV C		BY	207 Larrabee Road Westbrook, Maine, 04092-5	5108
			Maine Medical Center	
REV B	Re-Issued For Review	BY	East Tower Expansion	
Jun 27/19		JH	XLS140—2 Fire Alarm System	
REV A	Issued For Review	BY	22 Bramhall Street Portland, ME 041	02
Jan 23/19		JH	DRAWING LICE 017007 FAA F	REV
			DRAWING NUMBER USB-017267-FA4.5	В

REV B Re-Issued For Review BY East Tower Expansion Jun 27/19 JH XLS140—2 Fire Alarm System REV A Issued For Review BY 22 Bramhall Street Portland, ME 04
--





		•
B	ARCHITECTURAL CHANGES, DEVICE CHANGES / RELOCATIONS, CIRCUITS RE-DESIGNED & RE-ADDRESSED ACCORDINGLY.	

REV F		BY	Strobe Riser Diagram
REV E		BY	Sheet 1 of 5
REV D		BY	Homeywell ExpertISA
REV C		BY	207 Larrabee Road Westbrook, Maine, 04092
			Maine Medical Center
REV B	Re-Issued For Review	BY	East Tower Expansion
Jun 27/19		JH	XLS140—2 Fire Alarm System
REV A	Issued For Review	BY	22 Bramhall Street Portland, ME 04
Jan 23/19		JH	DRAWING USB-017267-FA4.6
			1

Sheet 1 of 5 neywell ExpertISE © arrabee Road Westbrook, Maine, 04092-5108 Maine Medical Center East Tower Expansion

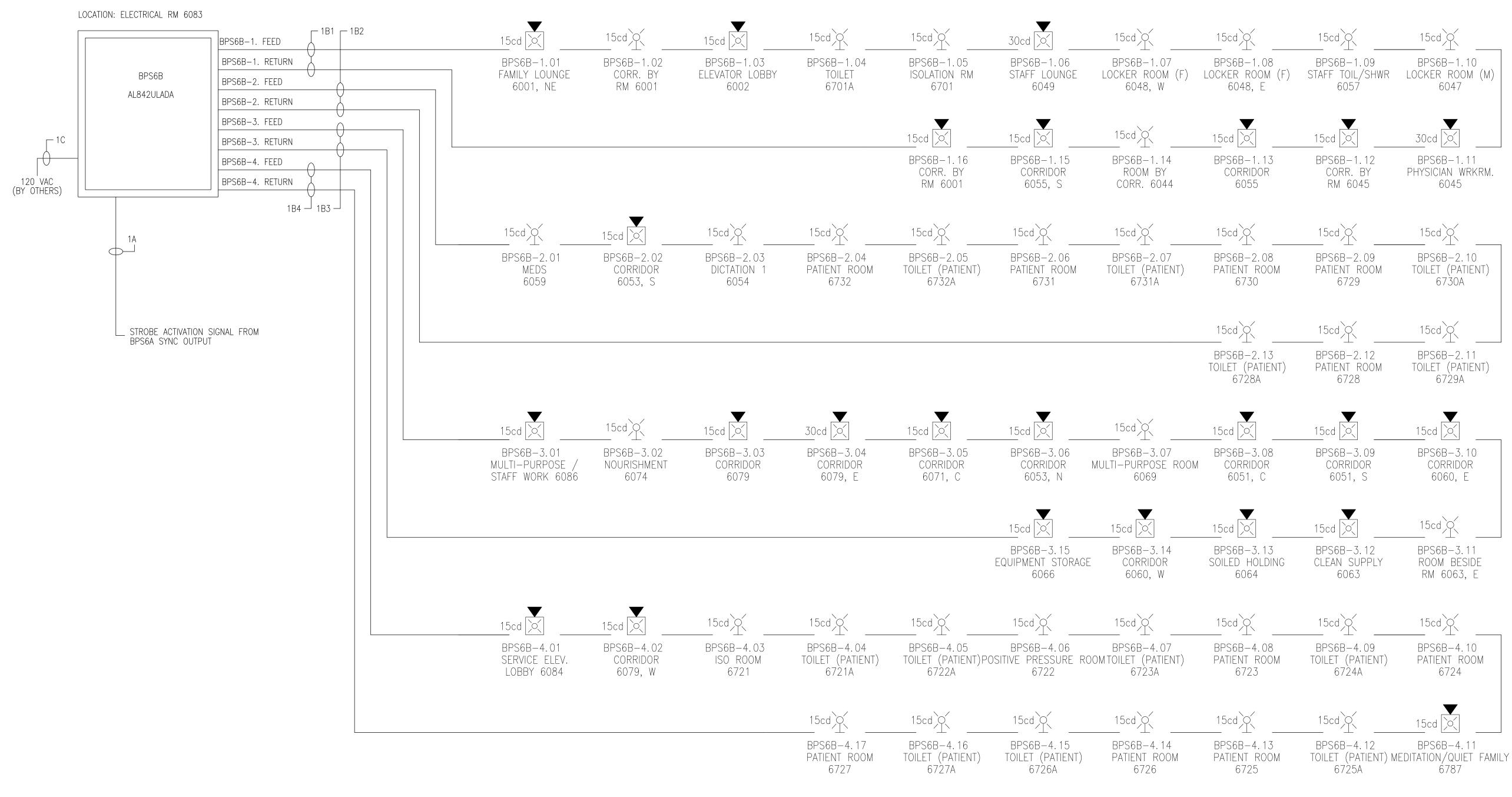
XLS140-2 Fire Alarm System Bramhall Street Portland, ME 04102 ^{ng} USB-017267-FA4.6

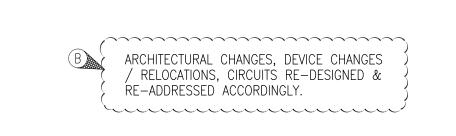
PROJECT DESIGN: Perkins + Will SYSTEM DESIGN: AKF Group LLC CONTRACTOR: ES Boulos Co.

HONEYWELL DESIGN: James Hodson

HONEYWELL INSTALLATION: Brice LeBlanc







REV F		BY	Strobe Riser Diagram
REV E		BY	Sheet 2 of 5
REV D		BY	Horeywell ExpertISA
REV C		BY	207 Larrabee Road Westbrook, Maine, 04092
			Maine Medical Center
REV B	Re-Issued For Review	BY	East Tower Expansion
Jun 27/19		JH	XLS140—2 Fire Alarm System
	Issued For Review	BY	22 Bramhall Street Portland, ME 04
Jan 23/19		JH	DRAWING USB-017267-FA4.7
			NUMBER USD-UT/ZU/-TA4./

Sheet 2 of 5 ExpertISE © ee Road Westbrook, Maine, 04092-5108 Maine Medical Center East Tower Expansion

S140-2 Fire Alarm System nhall Street Portland, ME 04102 JSB-017267-FA4.7

PROJECT DESIGN: Perkins + Will SYSTEM DESIGN: AKF Group LLC CONTRACTOR: ES Boulos Co.

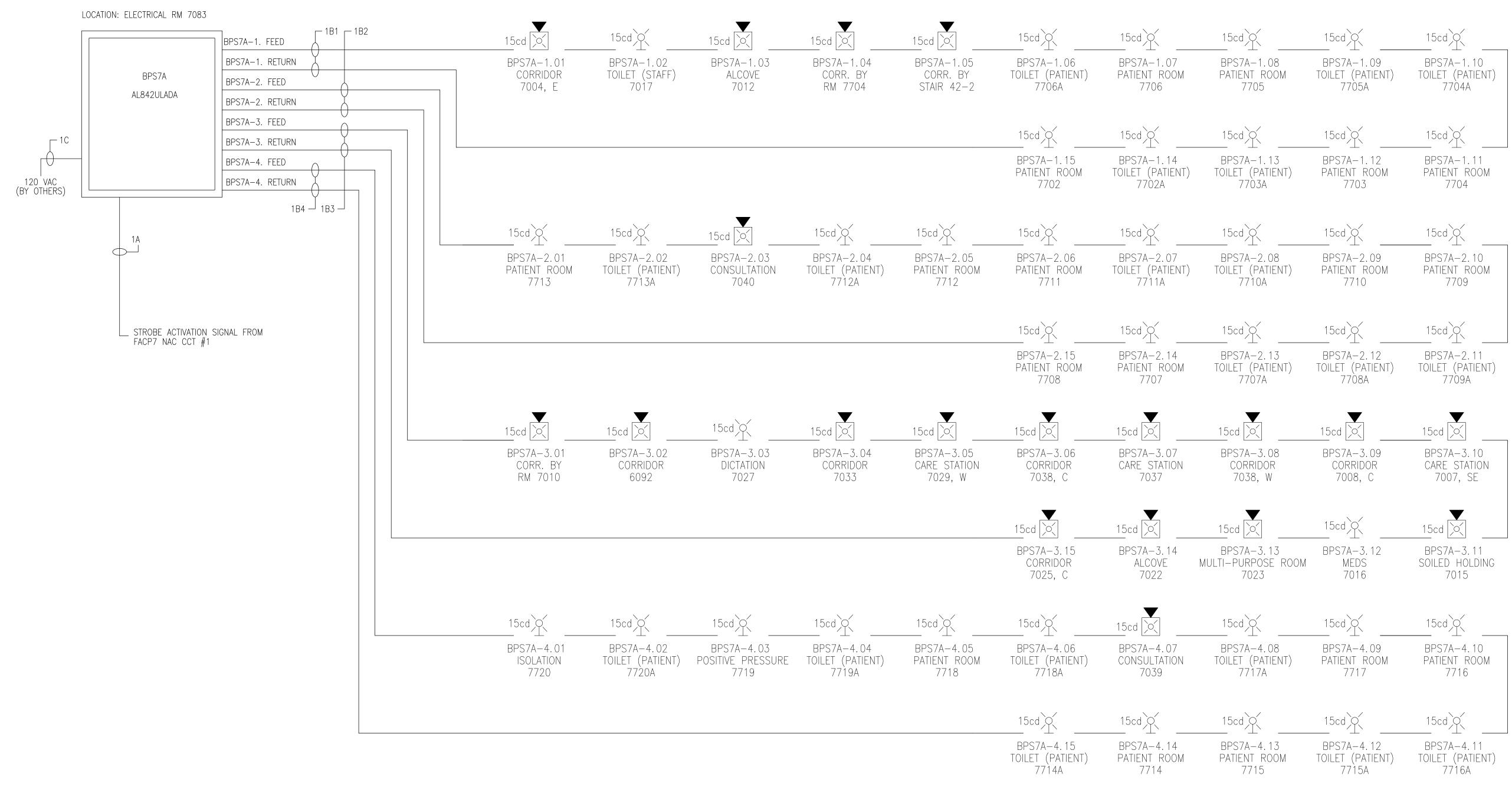
HONEYWELL DESIGN: James Hodson

HONEYWELL INSTALLATION: Brice LeBlanc

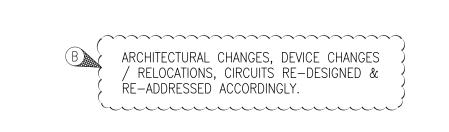


SYSTEM DESIGN: AKF Group LLC

CONTRACTOR: ES Boulos Co.



HONEYWELL DESIGN: James Hodson



DRAFTER: James Hodson

HONEYWELL INSTALLATION: Brice LeBlanc

REV F		BY	Strobe Riser Diagram			
REV E		BY	Sheet 3 of 5			
REV D		BY	Horeywell ExpertISE ©			
REV C		BY	207 Larrabee Road Westbrook, Maine, 04092-5108			
			Maine Medical Center			
REV B	Re-Issued For Review	BY	East Tower Expansion			
Jun 27/19		JH	XLS140—2 Fire Alarm System			
REV A	Issued For Review	BY	22 Bramhall Street Portland, ME 04102			
Jan 23/19		JH	DRAWING LICE 017007 FATO REV			
			DRAWING USB-017267-FA4.8 B			



SYSTEM DESIGN: AKF Group LLC

CONTRACTOR: ES Boulos Co.

LOCATION: ELECTRICAL RM 7083 15cd \(\) 15cd \(\) 15cd) 15cd 🔎 15cd 9 15cd 9 15cd Q 30cd 📐 BPS7B-1. FEED BPS7B-1. RETURN BPS7B-1.01 BPS7B-1.02 BPS7B-1.03 BPS7B-1.04 BPS7B-1.05 BPS7B-1.06 BPS7B-1.07 BPS7B-1.08 BPS7B-1.09 BPS7B-1.10 TOILET RM ISOLATION RM STAFF LOUNGE LOCKER ROOM (F) STAFF TOIL/SHWR LOCKER ROOM (M) TOILET (VISITOR) LOCKER ROOM (F) RECEPTION LOBBY PHYSICIAN WRKRM BPS7B BPS7B-2. FEED 7049 7701A 7701 7048, W 7048, E 7050Á 7047 7003 7002 7045 AL842ULADA BPS7B-2. RETURN BPS7B-3. FEED 15cd \(\) 15cd 9 15cd) BPS7B-3. RETURN BPS7B-1.16 BPS7B-1.15 BPS7B-1.14 BPS7B-1.13 BPS7B-1.12 BPS7B-1.11 BPS7B-4. FEED CORRIDOR FAMILY LOUNGE CORRIDOR TOILET (VISITOR) LOCKER ROOM (F) CORR. BY 120 VAC (BY OTHERS) BPS7B-4. RETURN 7056, C 7001, SE 7055 70`43 7048, W RM 7045 1B4 ─ 1B3 ─ 15cd 💢 15cd) 15cd) 15cd (15cd **(** 15cd (15cd **9** 15cd **2** 15cd) 15cd) BPS7B-2.01 BPS7B-2.03 BPS7B-2.07 BPS7B-2.08 BPS7B-2.09 BPS7B-2.10 BPS7B-2.02 BPS7B-2.04 BPS7B-2.05 BPS7B-2.06 CORRIDOR-1 DICTATION TOILET (PATIENT) PATIENT ROOM PATIENT ROOM MEDS PATIENT ROOM TOILET (PATIENT) PATIENT ROOM TOILET (PATIENT) 7059 7735 7734 7734A 7733 7733A 7732 7731 7732A 7053-1, SE 15cd X 15cd **(** 15cd) _ STROBE ACTIVATION SIGNAL FROM BPS7A SYNC OUTPUT BPS7B-2.13 BPS7B-2.12 BPS7B-2.11 TOILET (PATIENT) PATIENT ROOM TOILET (PATIENT) 7731A 7730A 7730 15cd) 15cd) 15cd) 15cd)< 30cd) 15cd) < 15cd) (15cd 🔍 BPS7B-3.01 BPS7B-3.02 BPS7B-3.03 BPS7B-3.04 BPS7B-3.06 BPS7B-3.07 BPS7B-3.08 BPS7B-3.09 BPS7B-3.10 BPS7B-3.05 CORRIDOR-1 ALCOVE NOURISHMENT CORRIDOR CORRIDOR CORRIDOR MULTI-PURPOSE CORRIDOR CORRIDOR TOILET (STAFF) 7058, C 7058, SE 7071, SW 7053-1, NE 7051, C 7051, SE 70**6**2 7074 ROOM 7069 7058 15cd) (BPS7B-3.14 BPS7B-3.13 BPS7B-3.12 BPS7B-3.11 EQUIP STO 7066 SOILED HOLDING CLEAN SUPPLY 7053-2 7064 15cd (15cd) 15cd Q 15cd) 15cd) 15cd **(** BPS7B-4.02 BPS7B-4.04 BPS7B-4.07 BPS7B-4.01 BPS7B-4.03 BPS7B-4.06 BPS7B-4.08 BPS7B-4.09 BPS7B-4.10 BPS7B-4.05 CORRIDOR TOILET (PATIENT) 7723A SERVICE ELEVATOR ISOLATION 7723 PATIENT ROOM PATIENT ROOM TOILET (PATIENT) POSITIVE PRESSURE TOILET (PATIENT) TOILET (PATIENT) LOBBY 7084, N 7058, NW 7726A 15cd) 15cd) 15cd) 15cd \(\) 15cd \(\) 15cd 9 15cd)

BPS7B-4.17

HONEYWELL DESIGN: James Hodson

PATIENT ROOM

7729

BPS7B-4.16

TOILET (PATIENT)

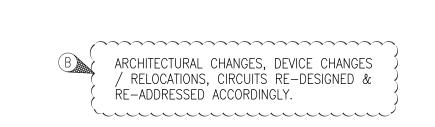
7729A

BPS7B-4.15

TOILET (PATIENT)

7728A

HONEYWELL INSTALLATION: Brice LeBlanc



BPS7B-4.13

TOILET (PATIENT)

7727A

BPS7B-4.12

7727

DRAFTER: James Hodson

BPS7B-4.11

PATIENT ROOM MEDITATION/QUIET FAMILY

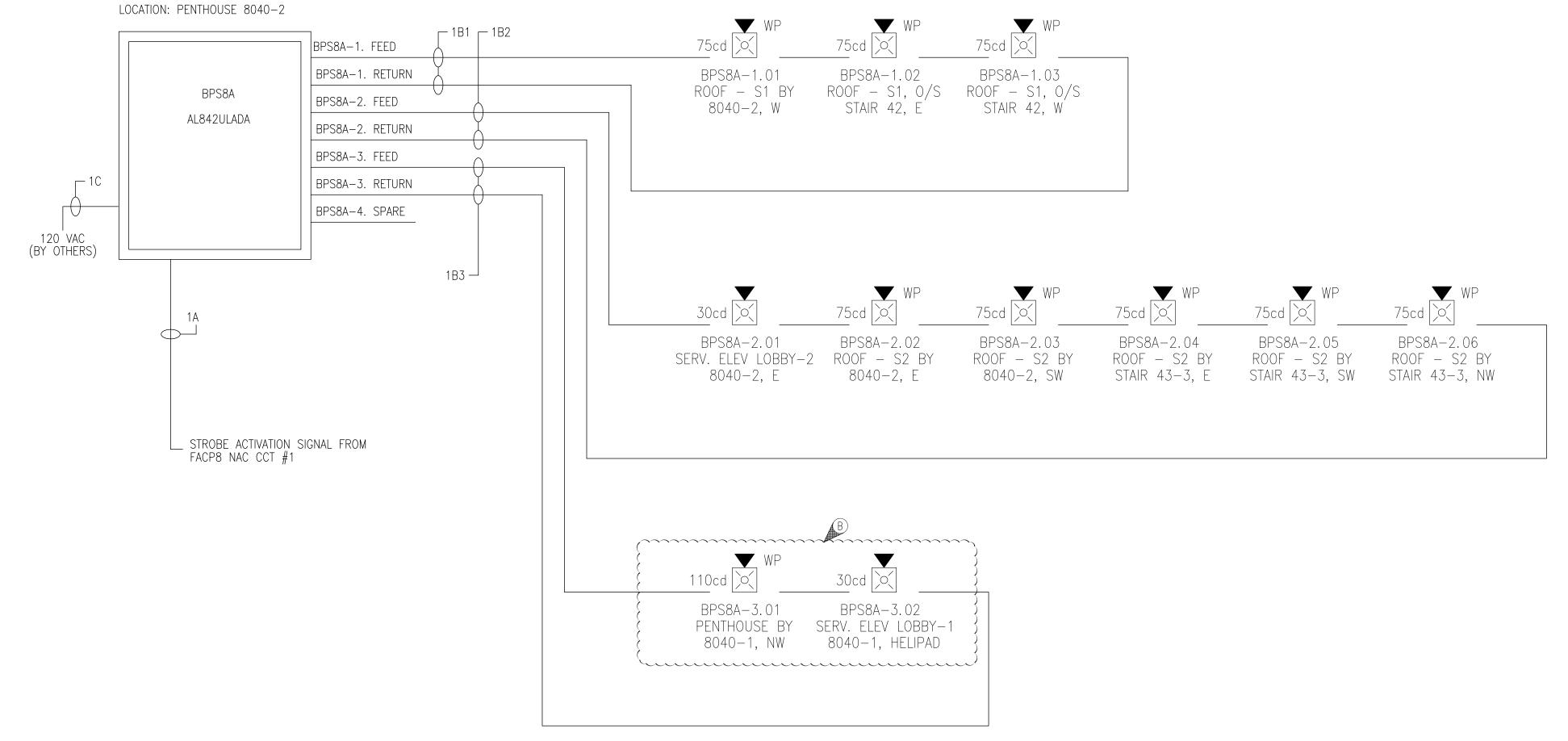
BPS7B-4.14

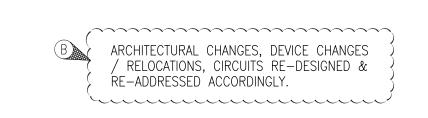
PATIENT ROOM

7728

REV F		BY	Strobe Riser Diagram
REV E		BY	Sheet 4 of 5
REV D		BY	Horeywell ExpertISE ©
REV C		BY	207 Larrabee Road Westbrook, Maine, 04092-5108
			Maine Medical Center
REV B	Re-Issued For Review	BY	East Tower Expansion
Jun 27/19		JH	XLS140—2 Fire Alarm System
REV A	Issued For Review	BY	22 Bramhall Street Portland, ME 04102
Jan 23/19		JH	DRAWING USB-017267-FA4.9 REV
			NUMBER USD-UT/ZO/-FA4.9 B







REV F		BY	
REV E		BY	
REV D		BY	
REV C		BY	207
REV B	Re-Issued For Review	BY	
Jun 27/19		JH	
REV A	Issued For Review	BY	22
Jan 23/19		JH	DRA
			MI

Strobe Riser Diagram
Sheet 5 of 5

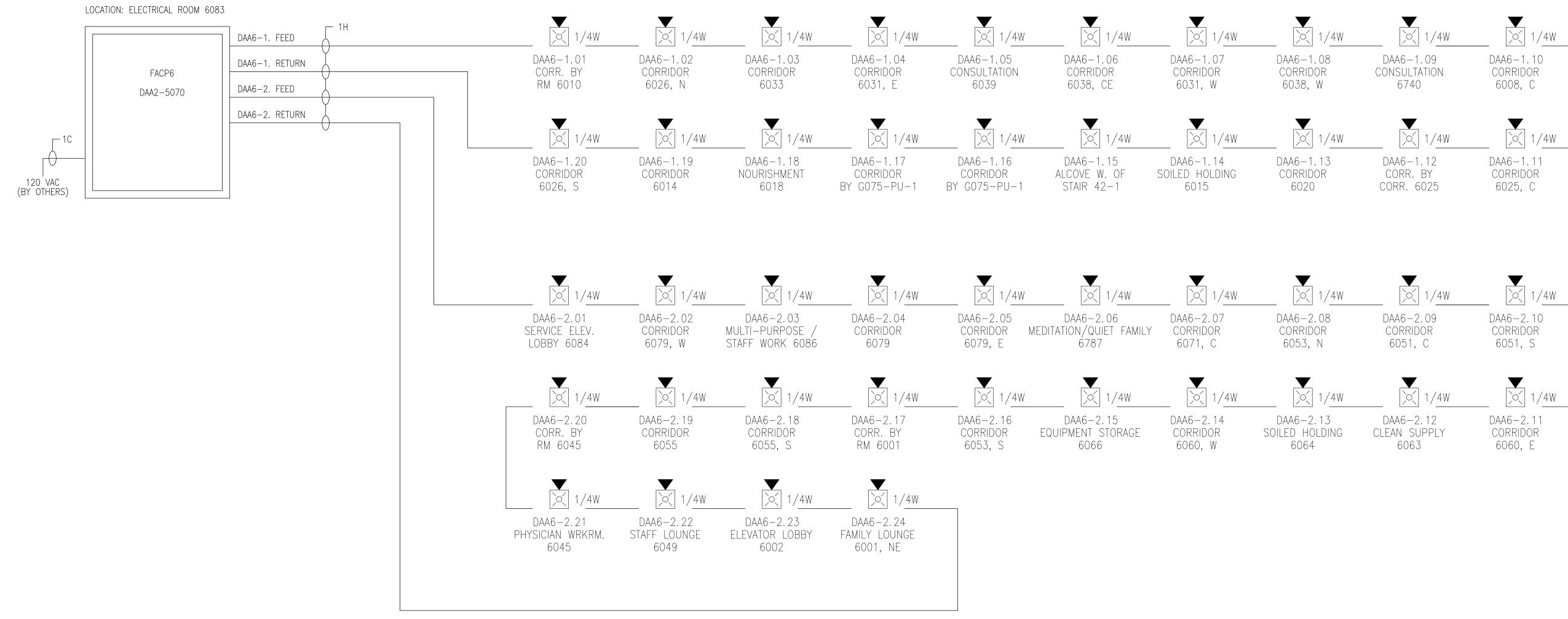
Elong Westbrook, Maine, 04092-5108
Maine Medical Center

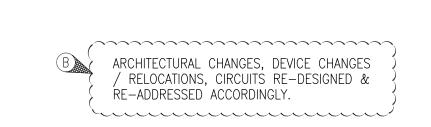
Maine Medical Center
East Tower Expansion
XLS140-2 Fire Alarm System
22 Bramhall Street Portland, ME 04102

DRAWING USB-017267-FA4 10

				HONEYWELL INSTALLATION: Brice LeBlanc		REV A Issued For Review	BY 22 Bramhall Street Portland, ME 04102
					Jo	an 23/19	JH DRAWING LICE 017007 FA 110 REV
PROJECT DESIGN: Perkins + Will	SYSTEM DESIGN: AKF Group LLC	CONTRACTOR: ES Boulos Co.	HONEYWELL DESIGN: James Hodson	HONEYWELL INSTALLATION: Brice LeBlanc	DRAFTER: James Hodson		NUMBER USB-U1/26/-FA4.10 B







REV F		BY	
REV E		BY	
REV D		BY	
REV C		BY	207
REV B	Re-Issued For Review	BY	
Jun 27/19		JH	
REV A	Issued For Review	BY	22
Jan 23/19		JH	DRA'
			NUN

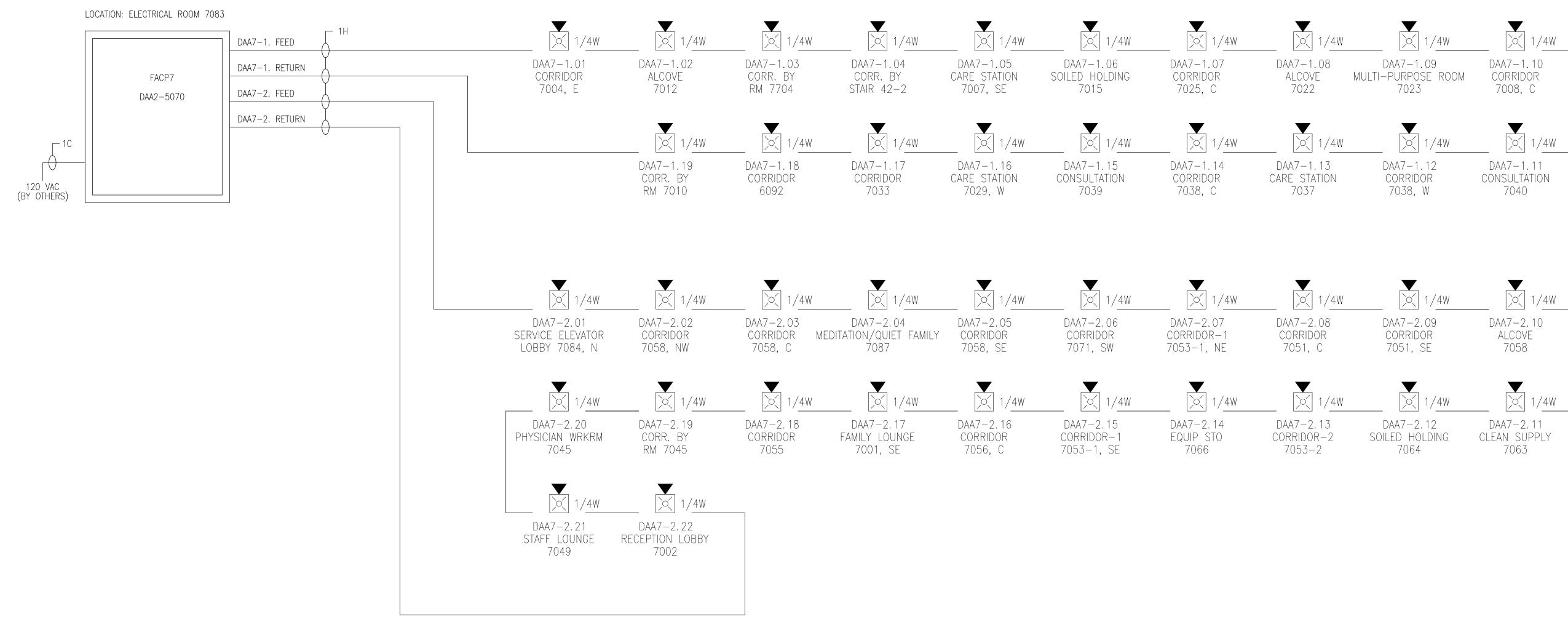
Speaker Riser Diagram

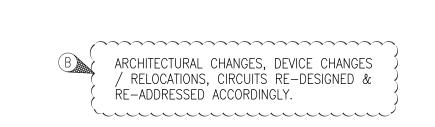
Maine Medical Center
East Tower Expansion
XLS140-2 Fire Alarm System
22 Bramhall Street Portland, ME 04102

DRAWING USB-017267-FA4.11

						REV A Issued For Review Jan 23/19	22 Bramhall Street Portland, ME 04102
PROJECT DESIGN: Perkins + Will	SYSTEM DESIGN: AKF Group LLC	CONTRACTOR: ES Boulos Co.	HONEYWELL DESIGN: James Hodson	HONEYWELL INSTALLATION: Brice LeBlanc	DRAFTER: James Hodson		DRAWING USB-017267-FA4.11 B







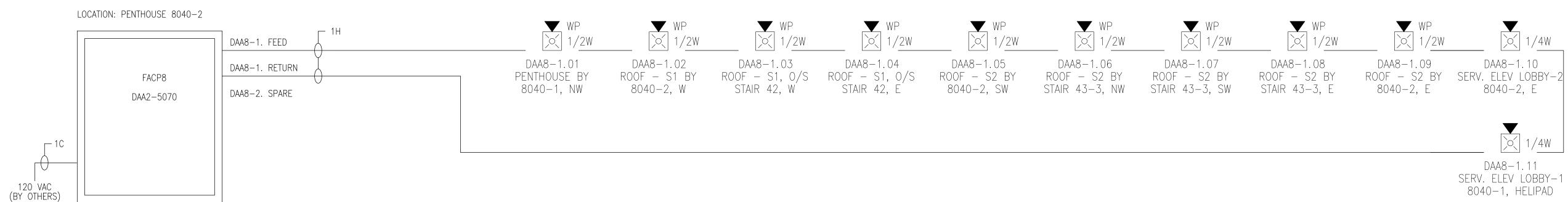
REV F		BY	Speaker Riser Diagram
REV E		BY	Sheet 2 of 3
REV D		BY	Horeywell ExpertISE ©
REV C		BY	207 Larrabee Road Westbrook, Maine, 04092-5108
			Maine Medical Center
REV B	Re-Issued For Review	BY	East Tower Expansion
Jun 27/19		JH	XLS140—2 Fire Alarm System
REV A	Issued For Review	BY	22 Bramhall Street Portland, ME 04102
Jan 23/19		JH	DRAWING LICE 017007 FA 1 10 REV
			DRAWING USB-017267-FA4.12 B

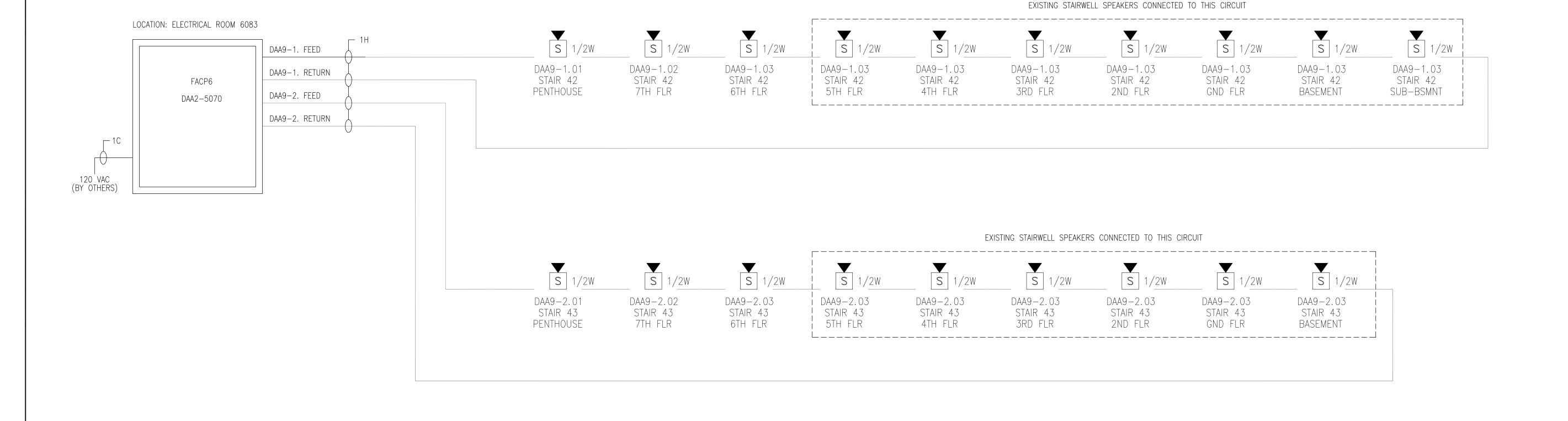
						REV B Re-Issued For Review Jun 27/19	BY JH	East Tower Expansion XLS140—2 Fire Alarm System
						REV A Issued For Review Jan 23/19	BY JH	22 Bramhall Street Portland, ME 04102
PROJECT DESIGN: Perkins + Will	SYSTEM DESIGN: AKF Group LLC	CONTRACTOR: ES Boulos Co.	HONEYWELL DESIGN: James Hodson	HONEYWELL INSTALLATION: Brice LeBlanc	DRAFTER: James Hodson	·		DRAWING USB-017267-FA4.12 B



SYSTEM DESIGN: AKF Group LLC

CONTRACTOR: ES Boulos Co.





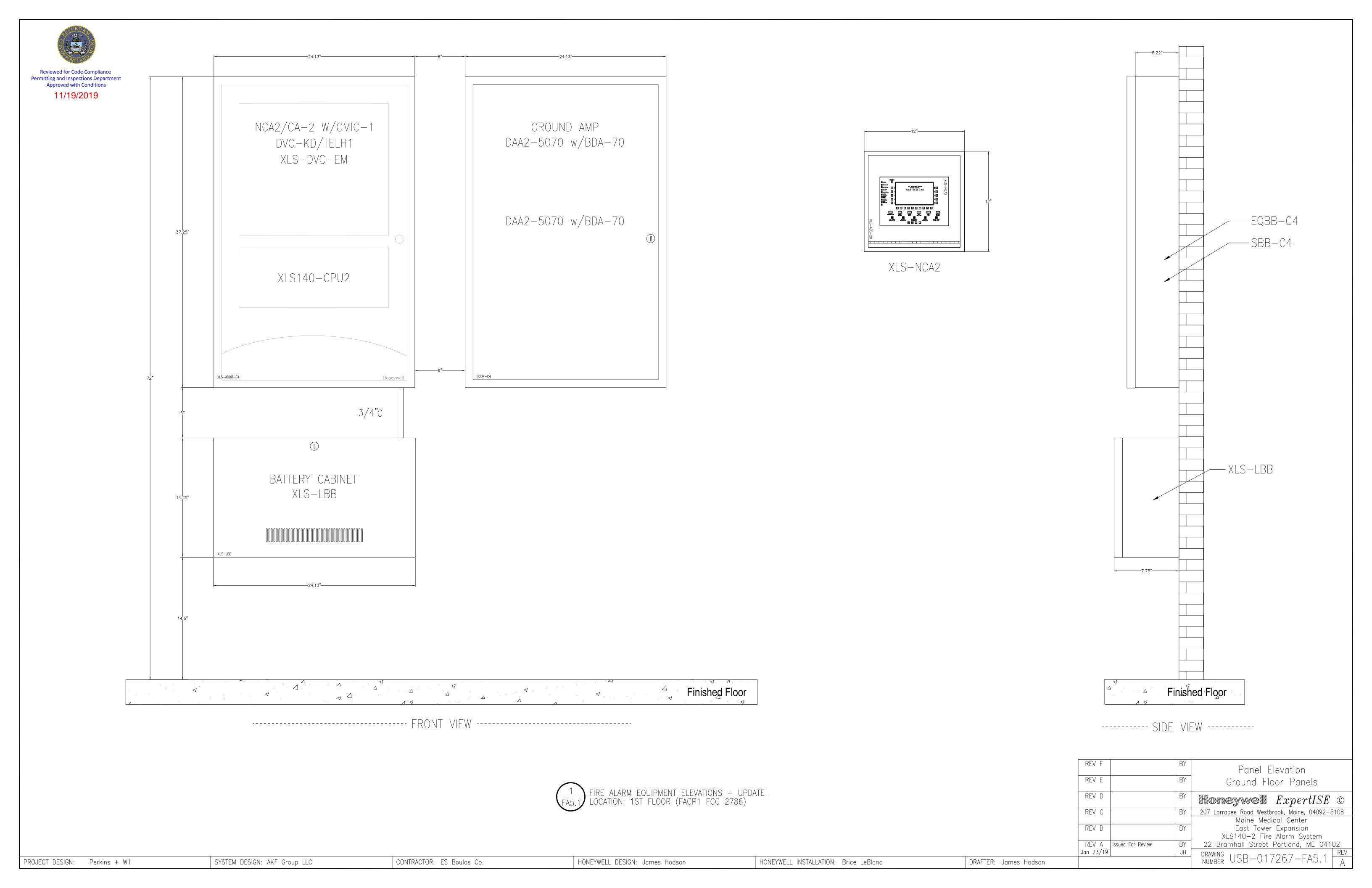
HONEYWELL DESIGN: James Hodson

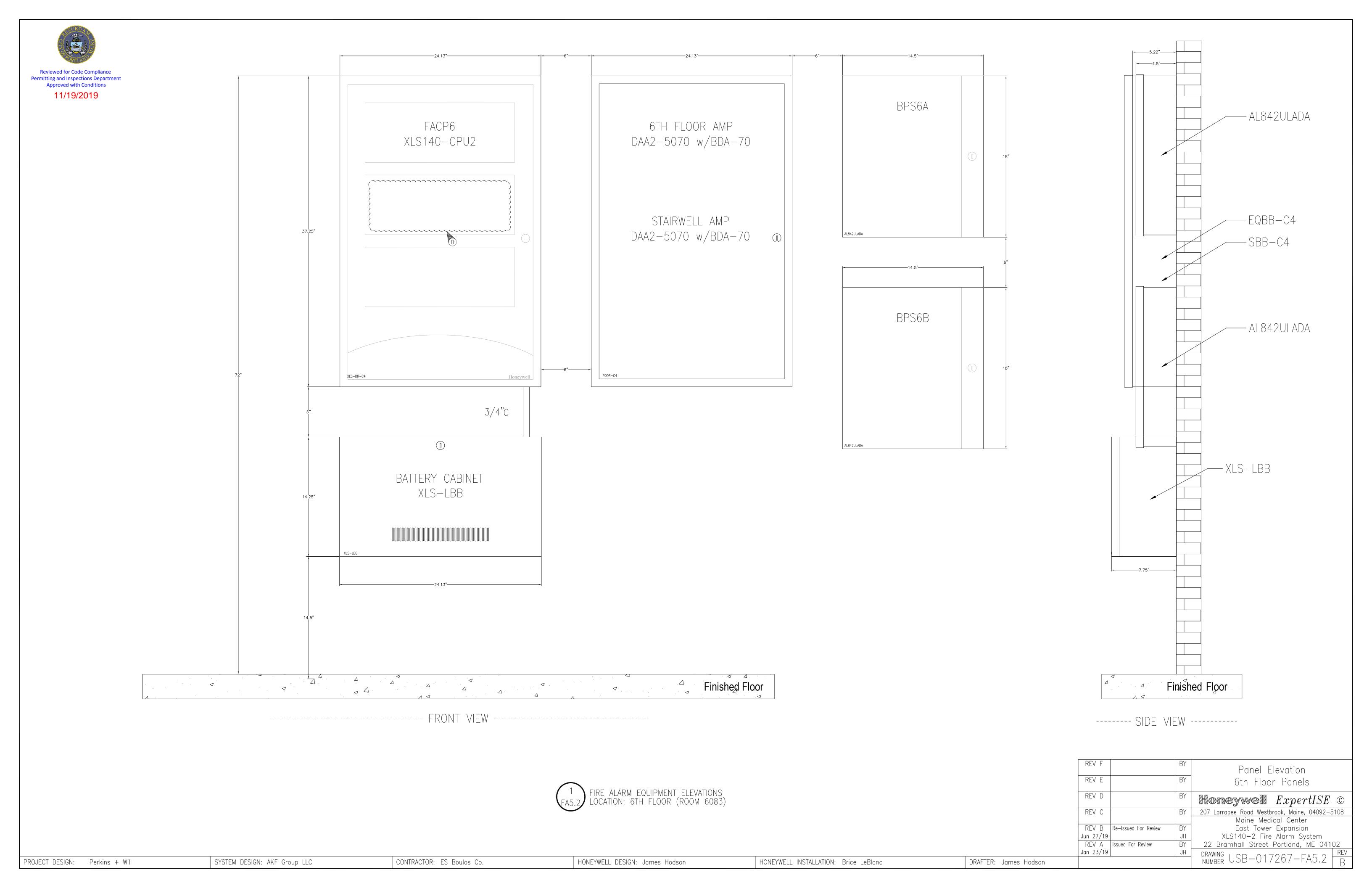
ITECTURAL CHANGES, DEVICE CHANGES LOCATIONS, CIRCUITS RE-DESIGNED & DDRESSED ACCORDINGLY.

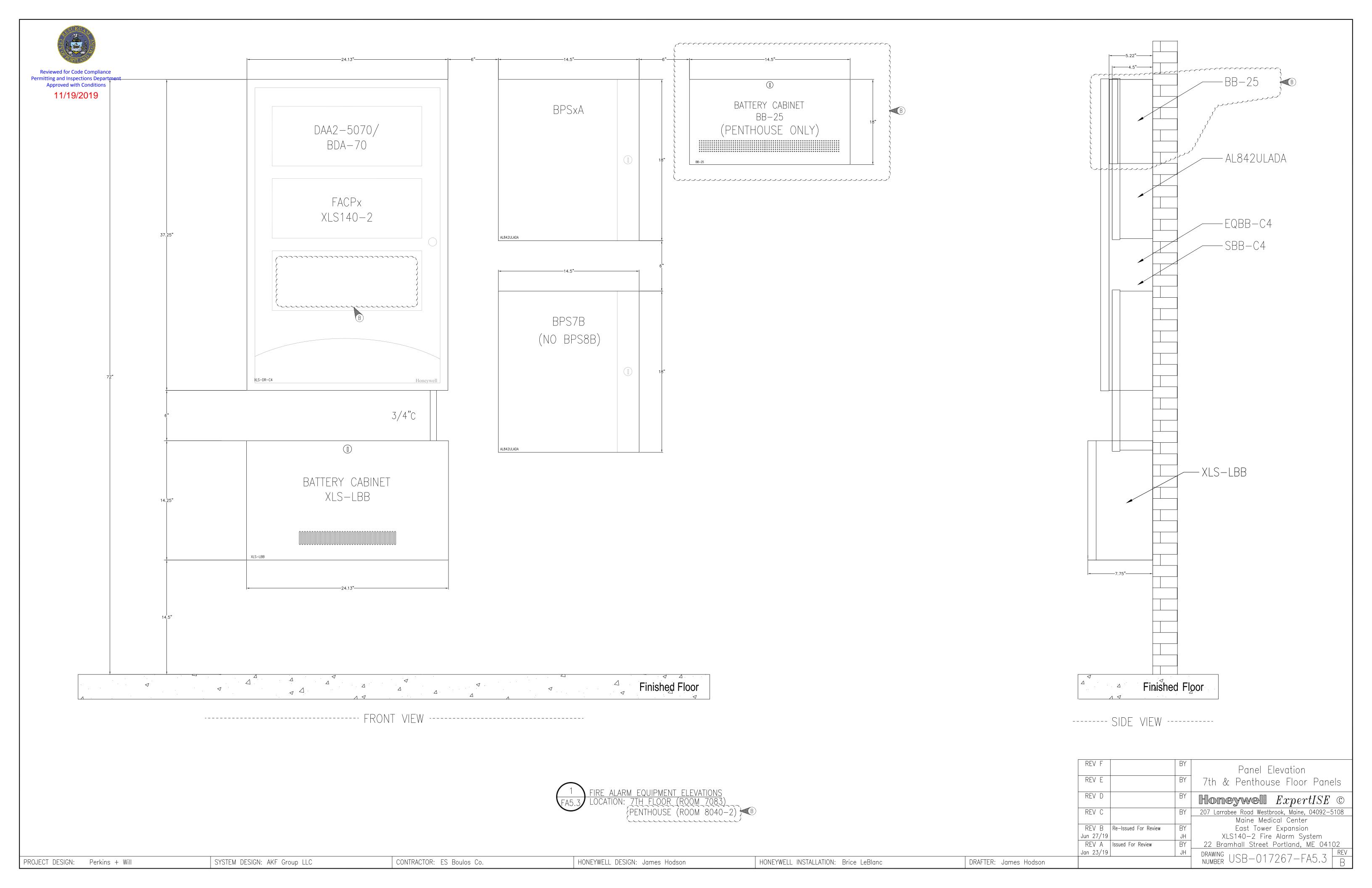
DRAFTER: James Hodson

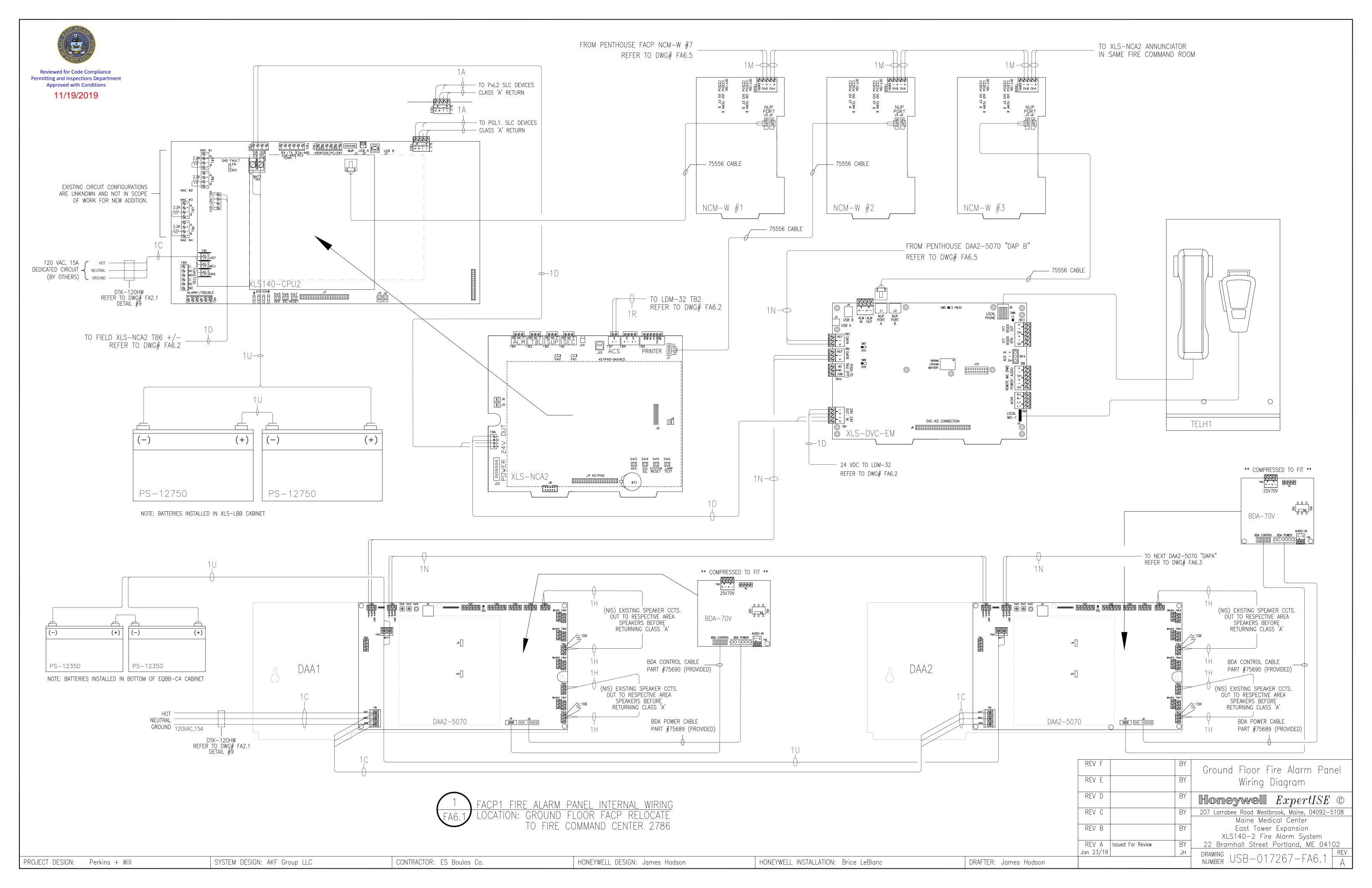
HONEYWELL INSTALLATION: Brice LeBlanc

REV F		BY	Speaker Riser Diagram
REV E		BY	Sheet 3 of 3
REV D		BY	Homeywell ExpertISE ©
REV C		BY	207 Larrabee Road Westbrook, Maine, 04092-5108
			Maine Medical Center
REV B	Re-Issued For Review	BY	East Tower Expansion
Jun 27/19		JH	XLS140-2 Fire Alarm System
REV A	Issued For Review	BY	22 Bramhall Street Portland, ME 04102
Jan 23/19		JH	DRAWING LICE 017007 FA 1 1 7 REV
			DRAWING USB-017267-FA4.13 B

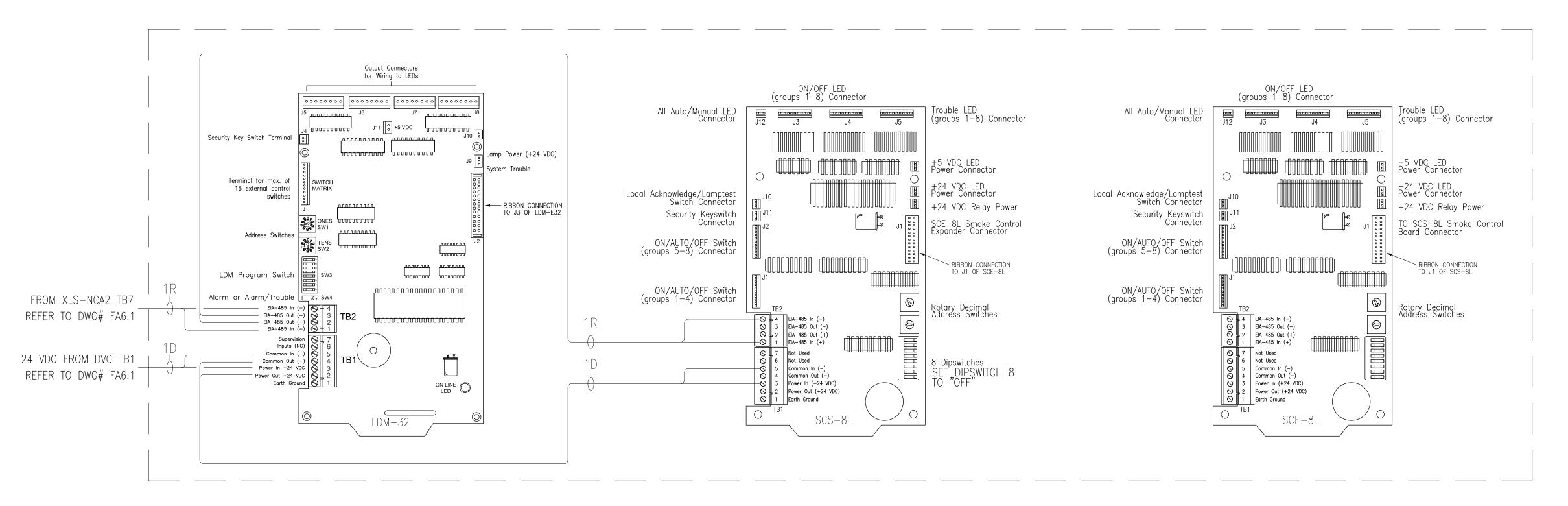


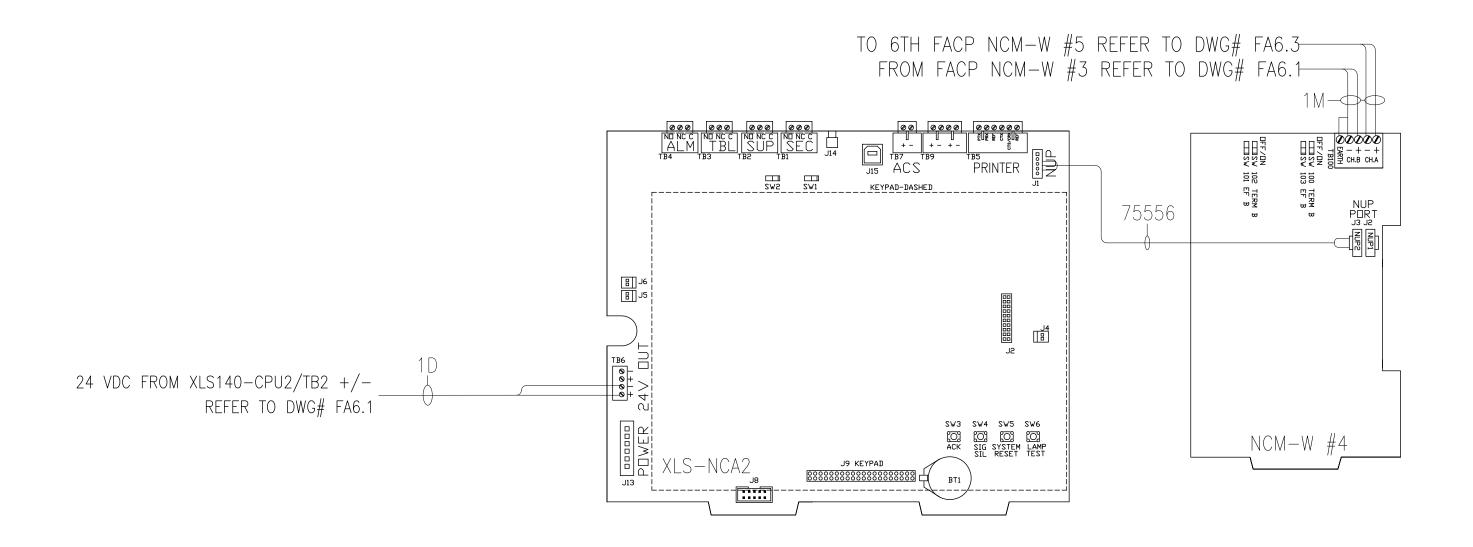












CORRECTED WIRING ON SCS/SCE BOARDS
REMOVED DUPLICATE DETAIL OF DIPSWITCH



REV F		BY	Graphics Panel Wiring &
REV E		BY	Fire Alarm Annunciator
REV D		BY	Honeywell ExpertISE ©
REV C		BY	207 Larrabee Road Westbrook, Maine, 04092-5108
			Maine Medical Center
REV B	Re-Issued For Review	BY	East Tower Expansion
Jun 27/19		JH	XLS140-2 Fire Alarm System
REV A	Issued For Review	BY	22 Bramhall Street Portland, ME 04102
Jan 23/19		JH	DRAWING LICE 017007 FACO RE
			DRAWING NUMBER USB-017267-FA6.2 B

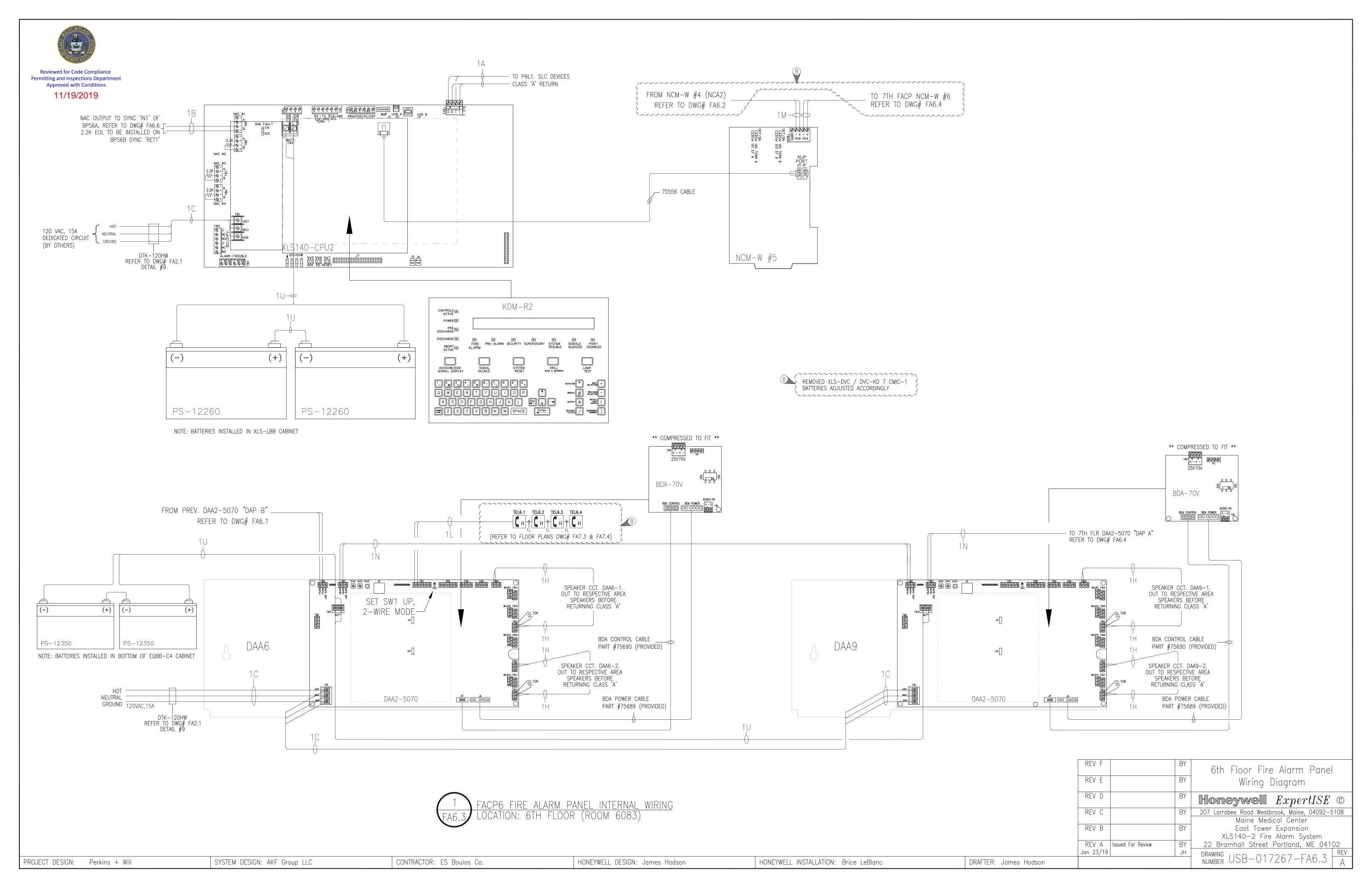
PROJECT DESIGN: Perkins + Will

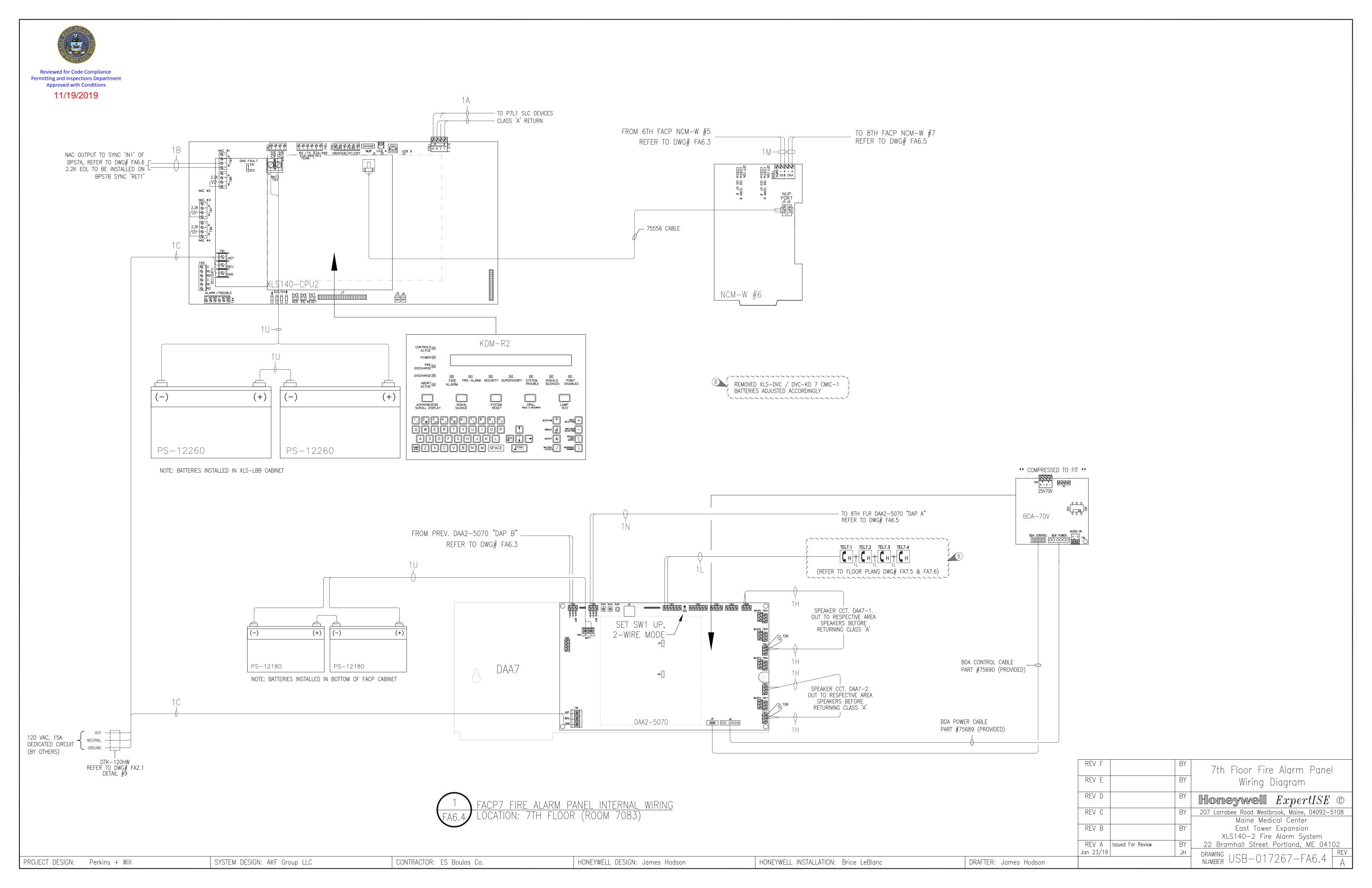
SYSTEM DESIGN: AKF Group LLC

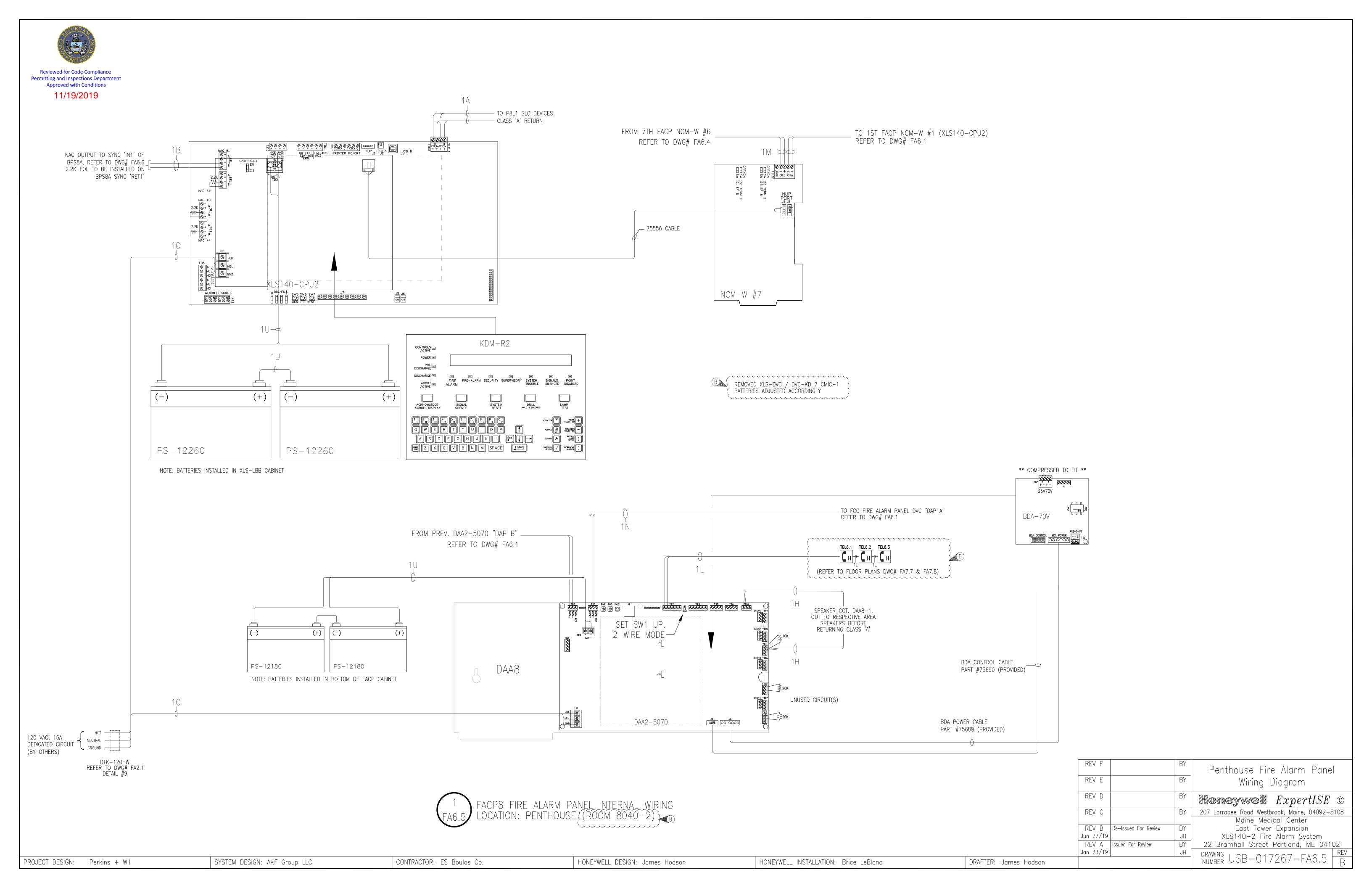
CONTRACTOR: ES Boulos Co.

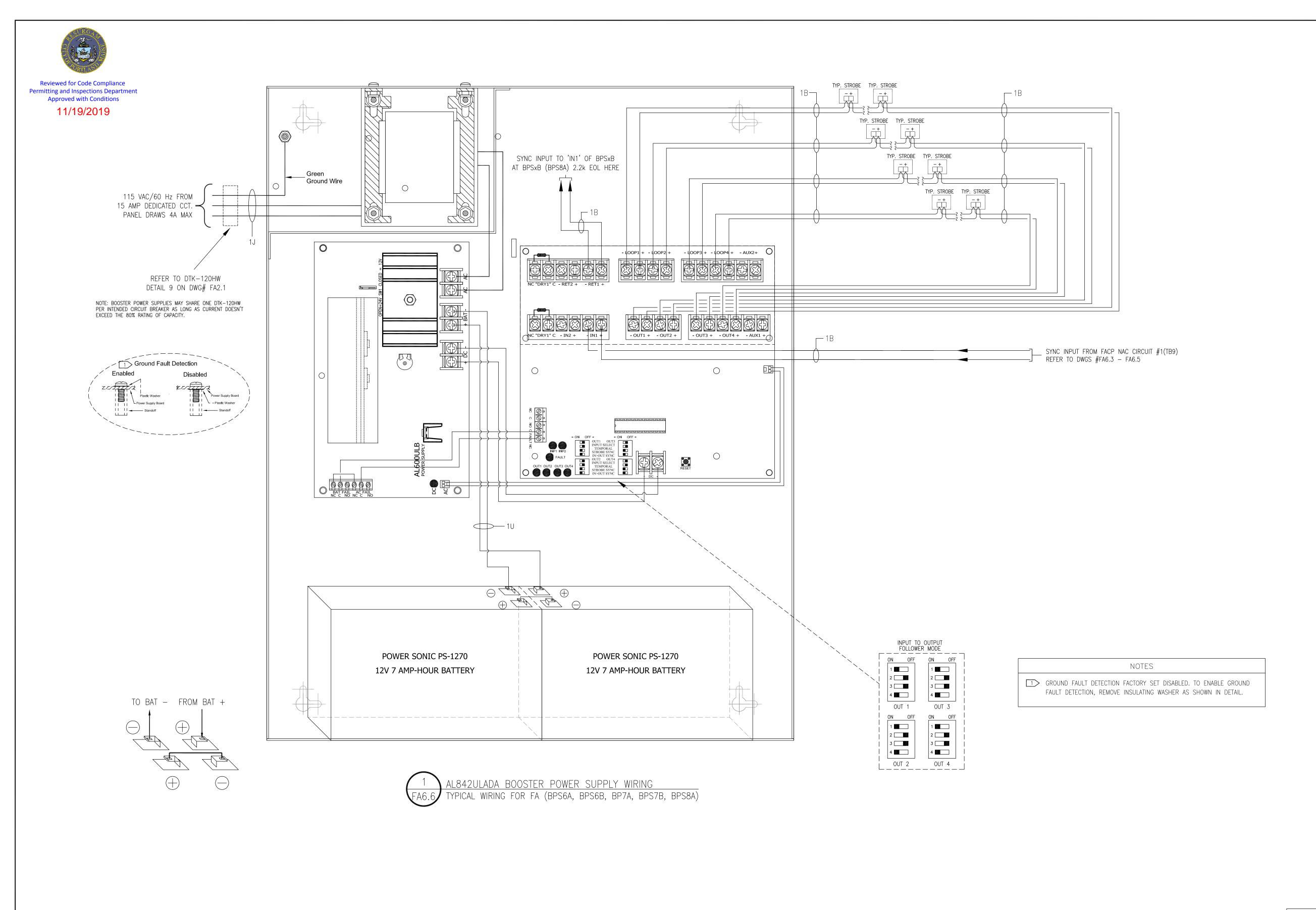
HONEYWELL DESIGN: James Hodson

HONEYWELL INSTALLATION: Brice LeBlanc





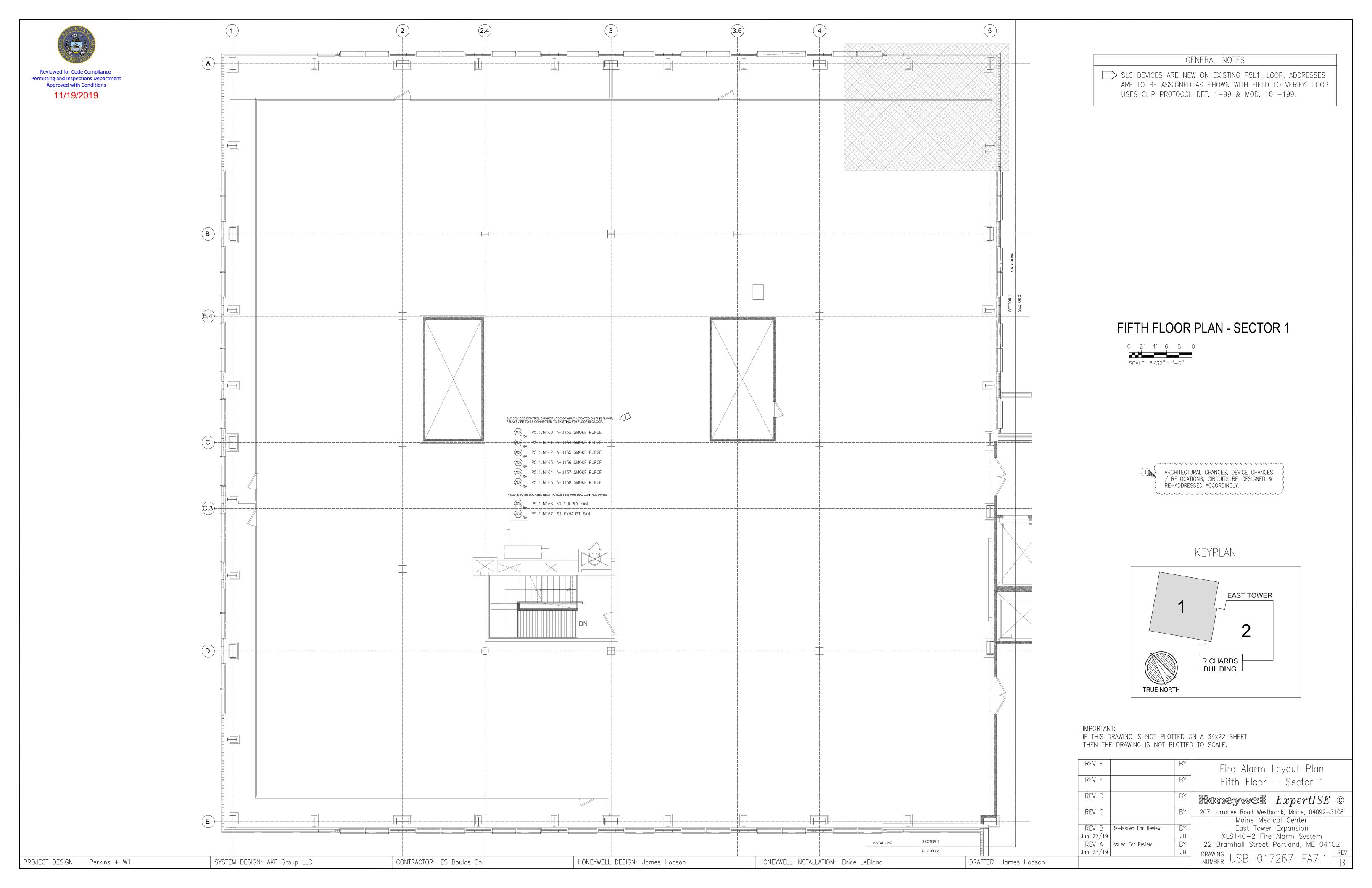


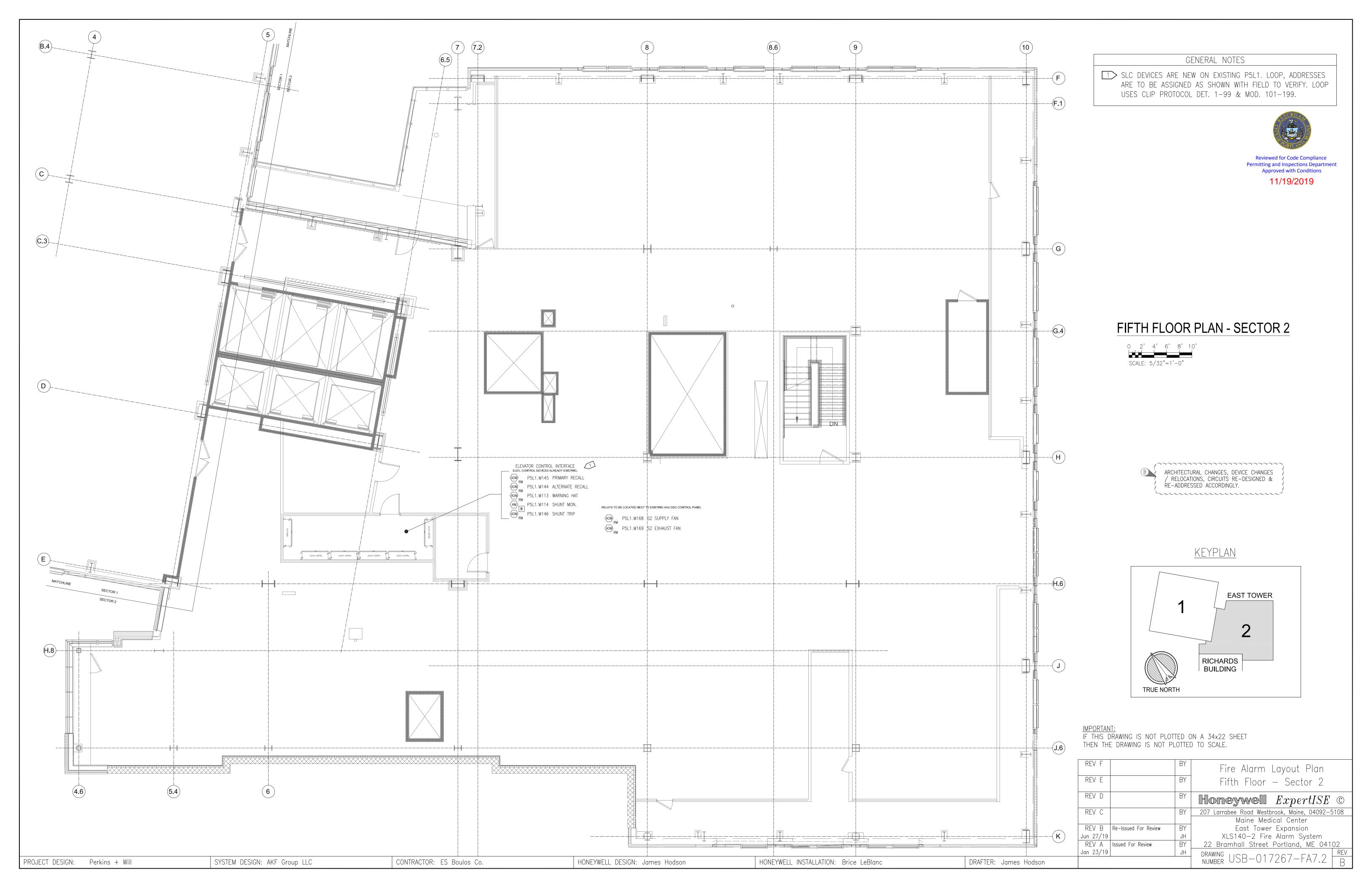


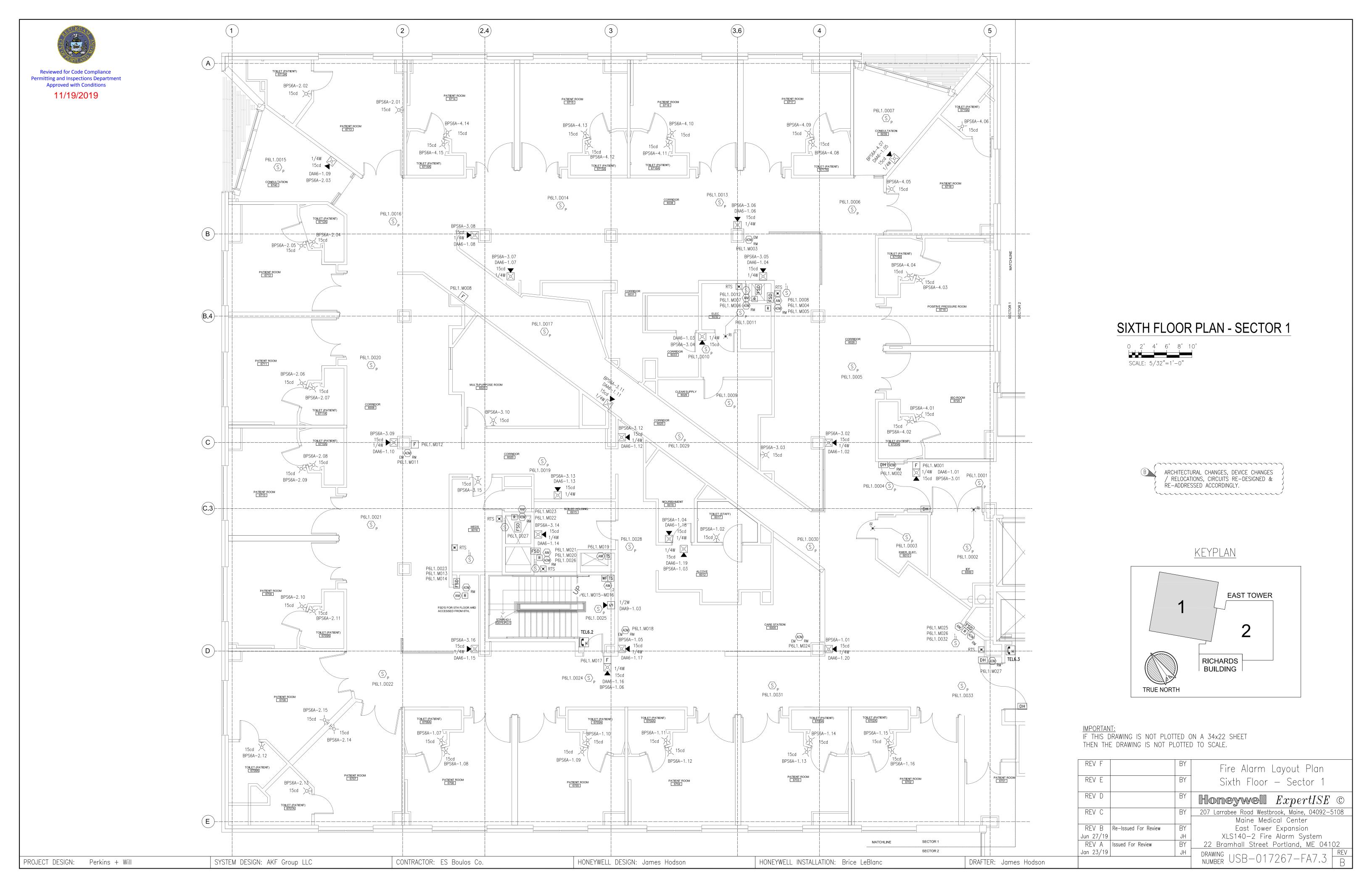
REV F		BY	Booster Power Supply
REV E		BY	Wiring Diagram
REV D		BY	Horeywell ExpertISE ©
REV C		BY	207 Larrabee Road Westbrook, Maine, 04092-5108
			Maine Medical Center
REV B		BY	East Tower Expansion
			XLS140-2 Fire Alarm System
REV A	Issued For Review	BY	22 Bramhall Street Portland, ME 04102
Jan 23/19		JH	DRAWING LIGHT 047007 FACO REV
			DRAWING USB-017267-FA6.6 A

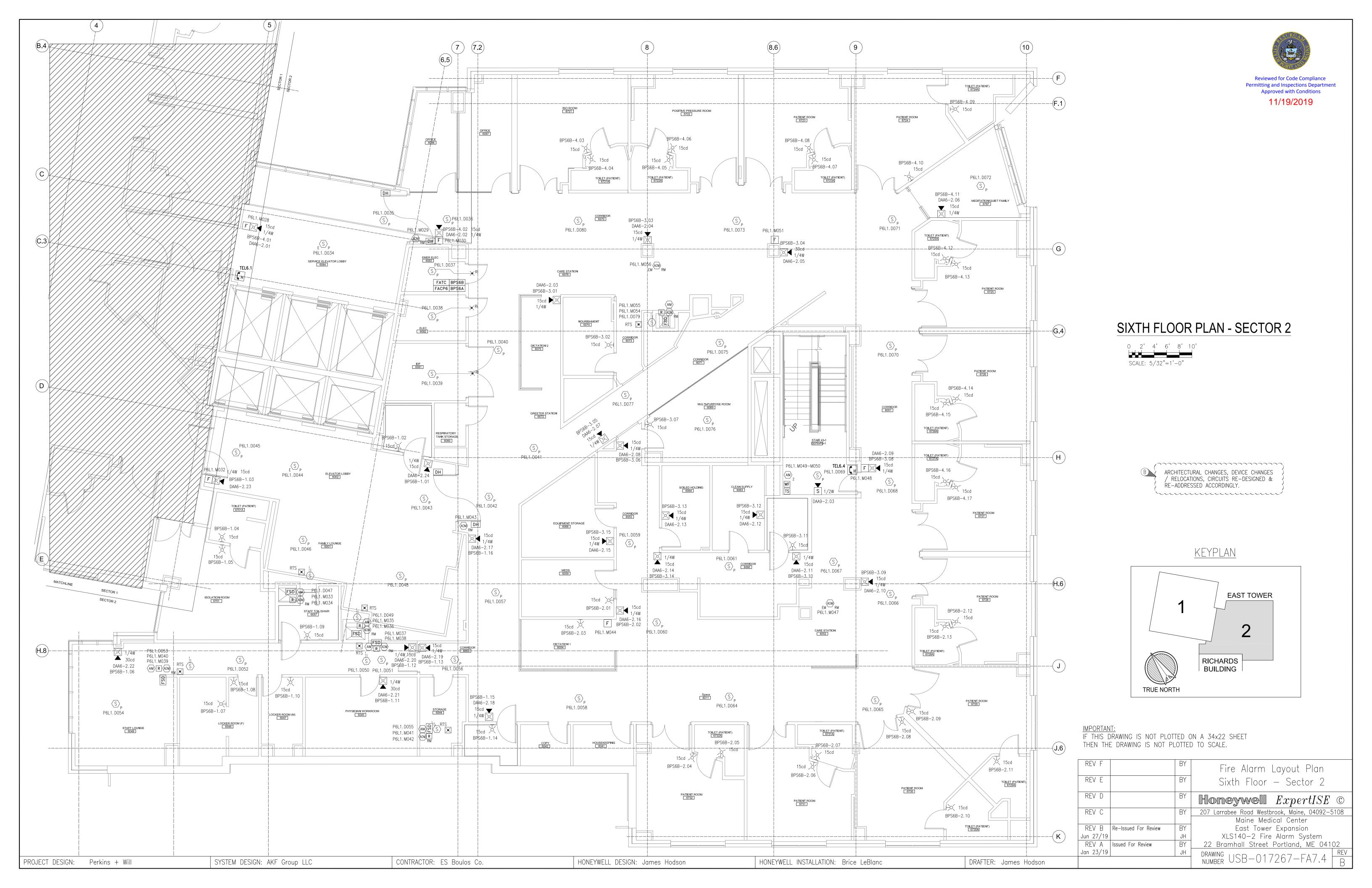
PROJECT DESIGN: Perkins + Will SYSTEM DESIGN: AKF Group LLC CONTRACTOR: ES Boulos Co.

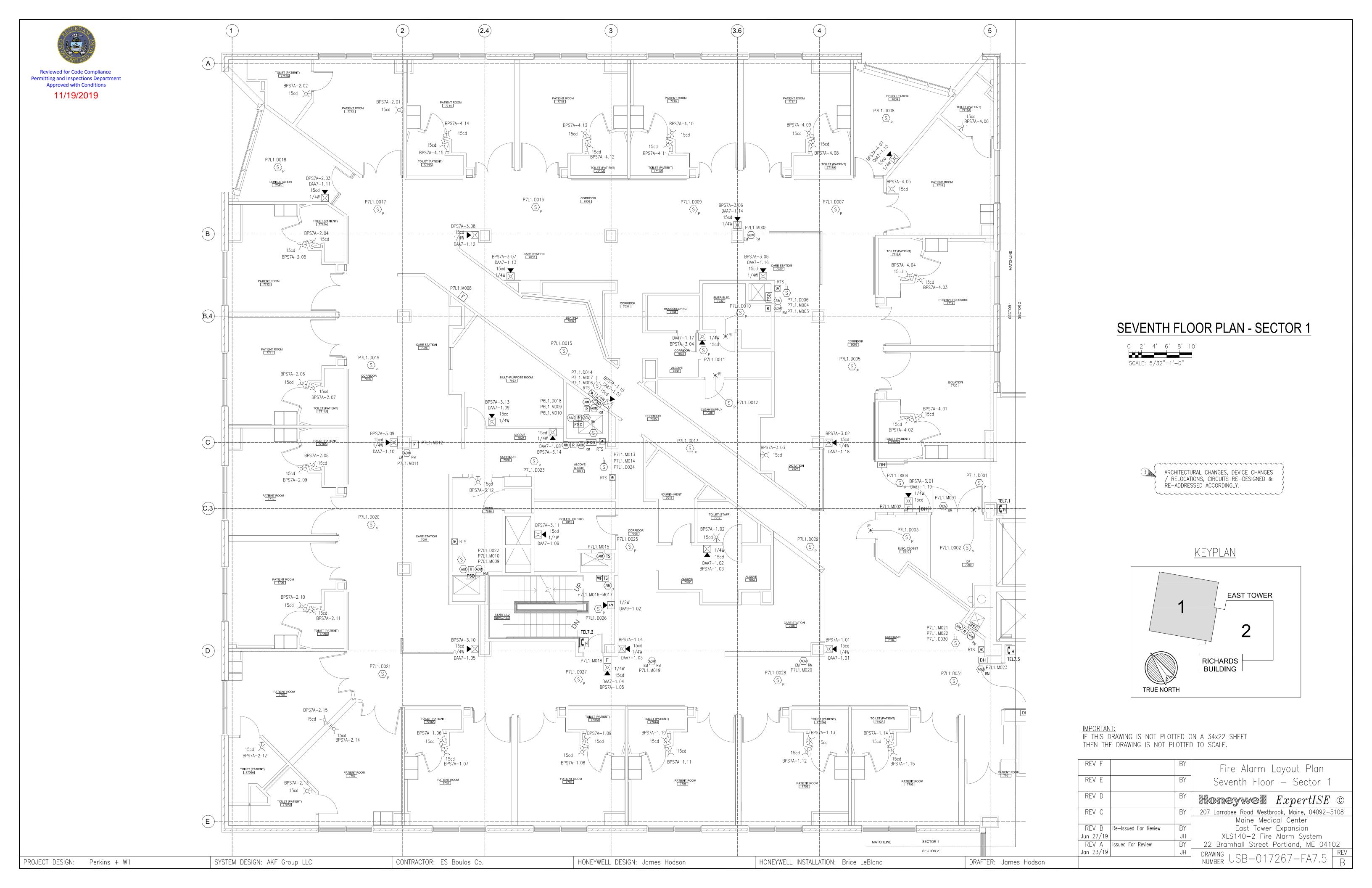
| Contractor | Contrac

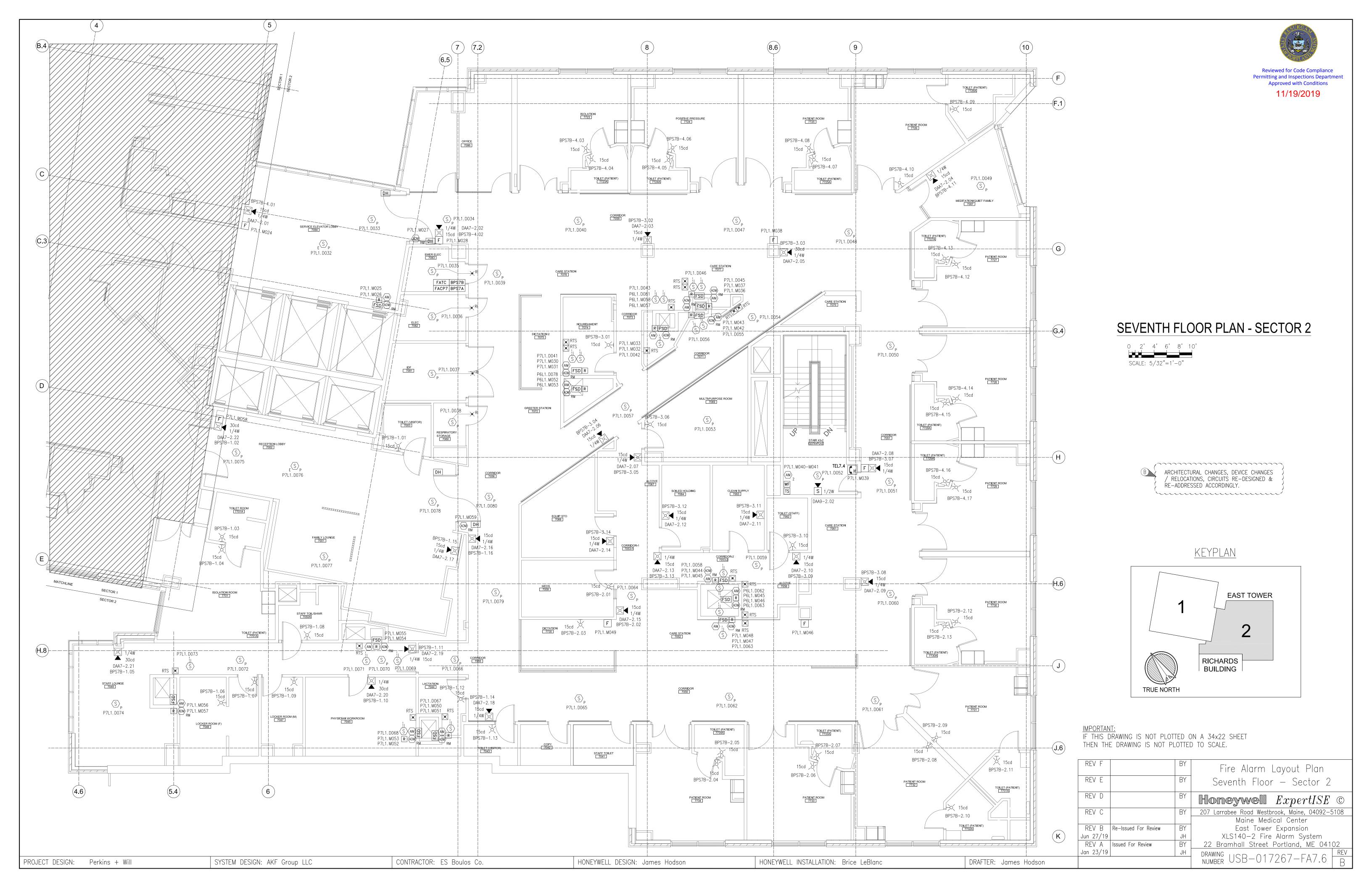


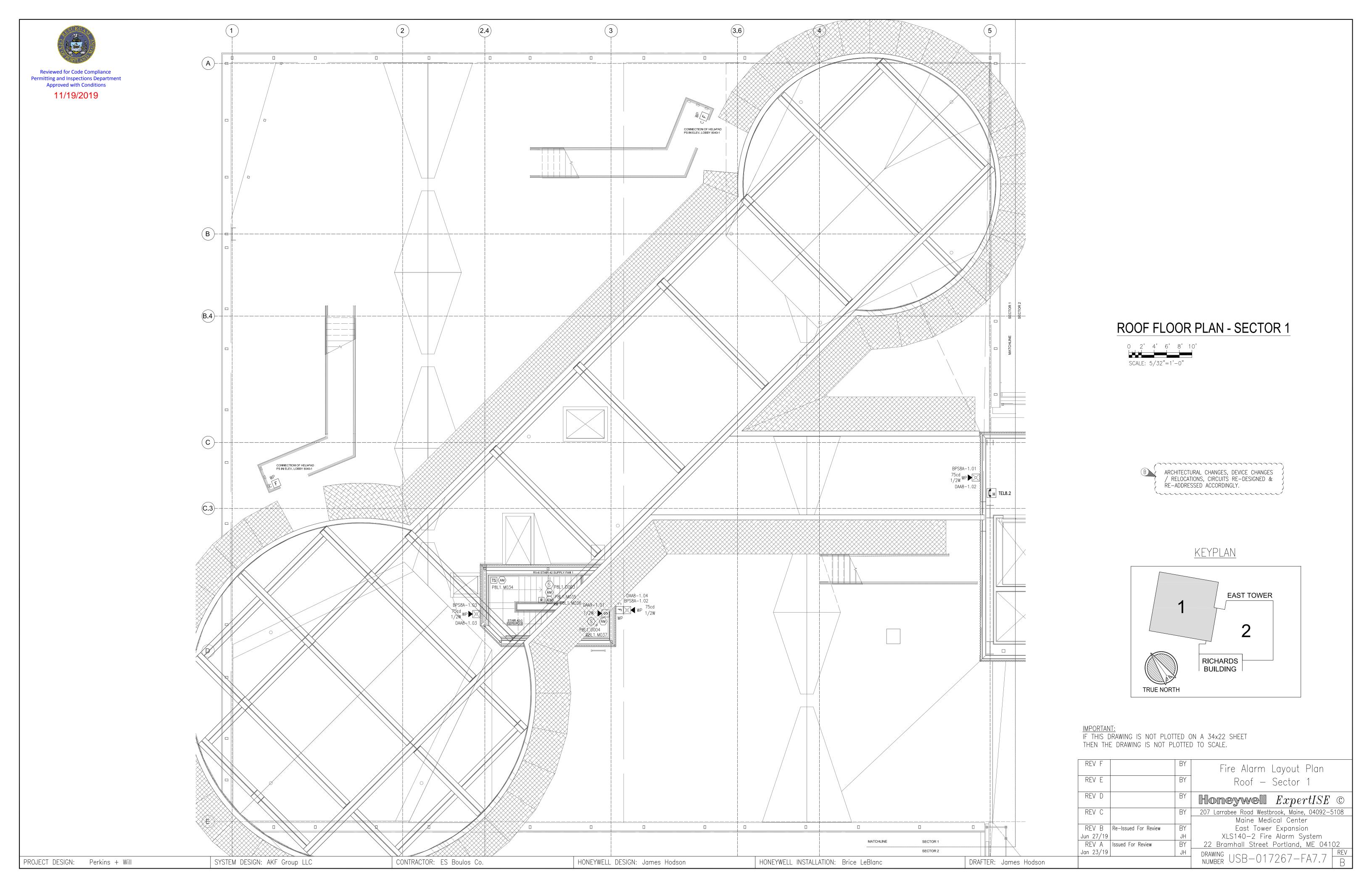


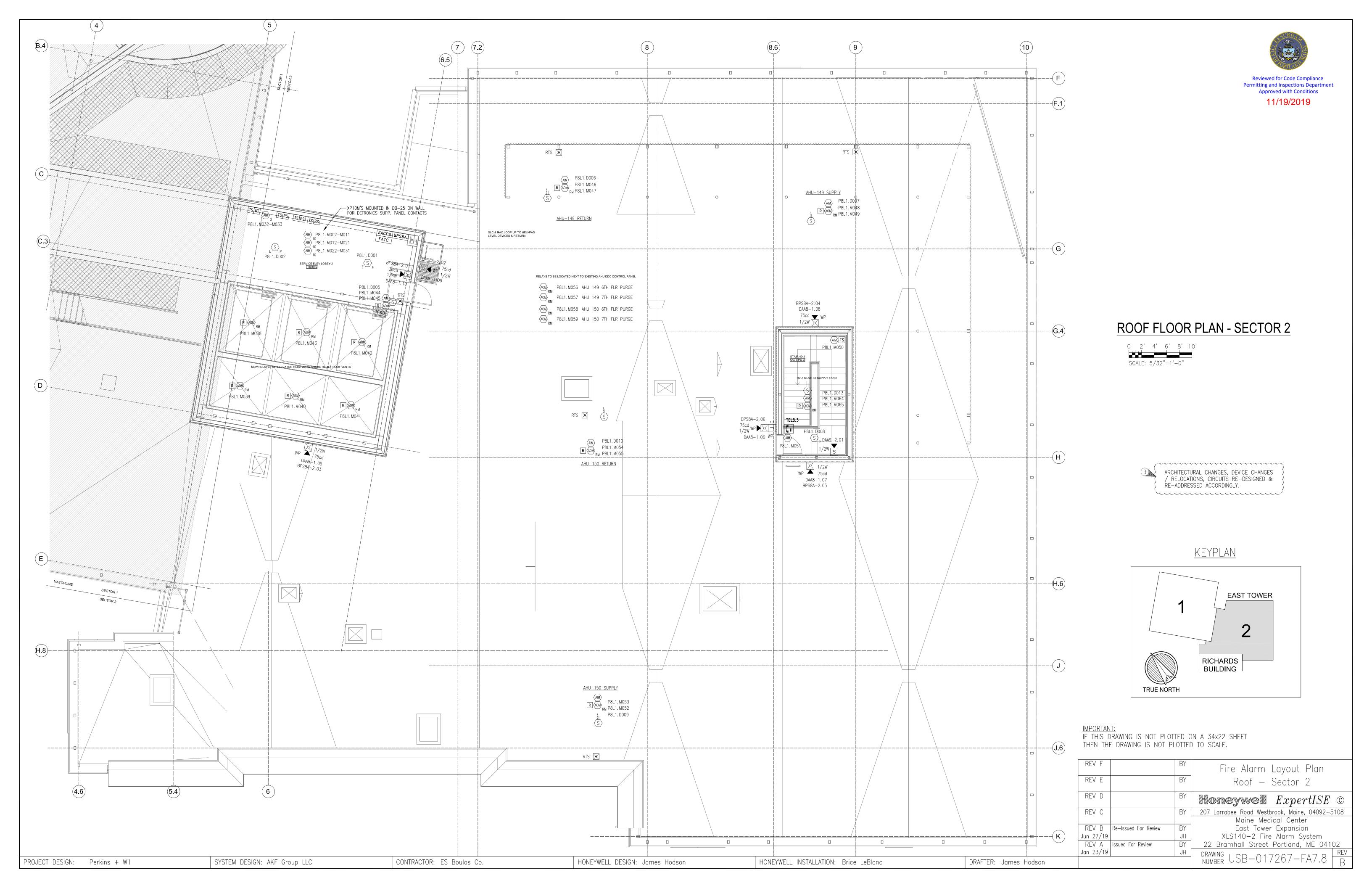


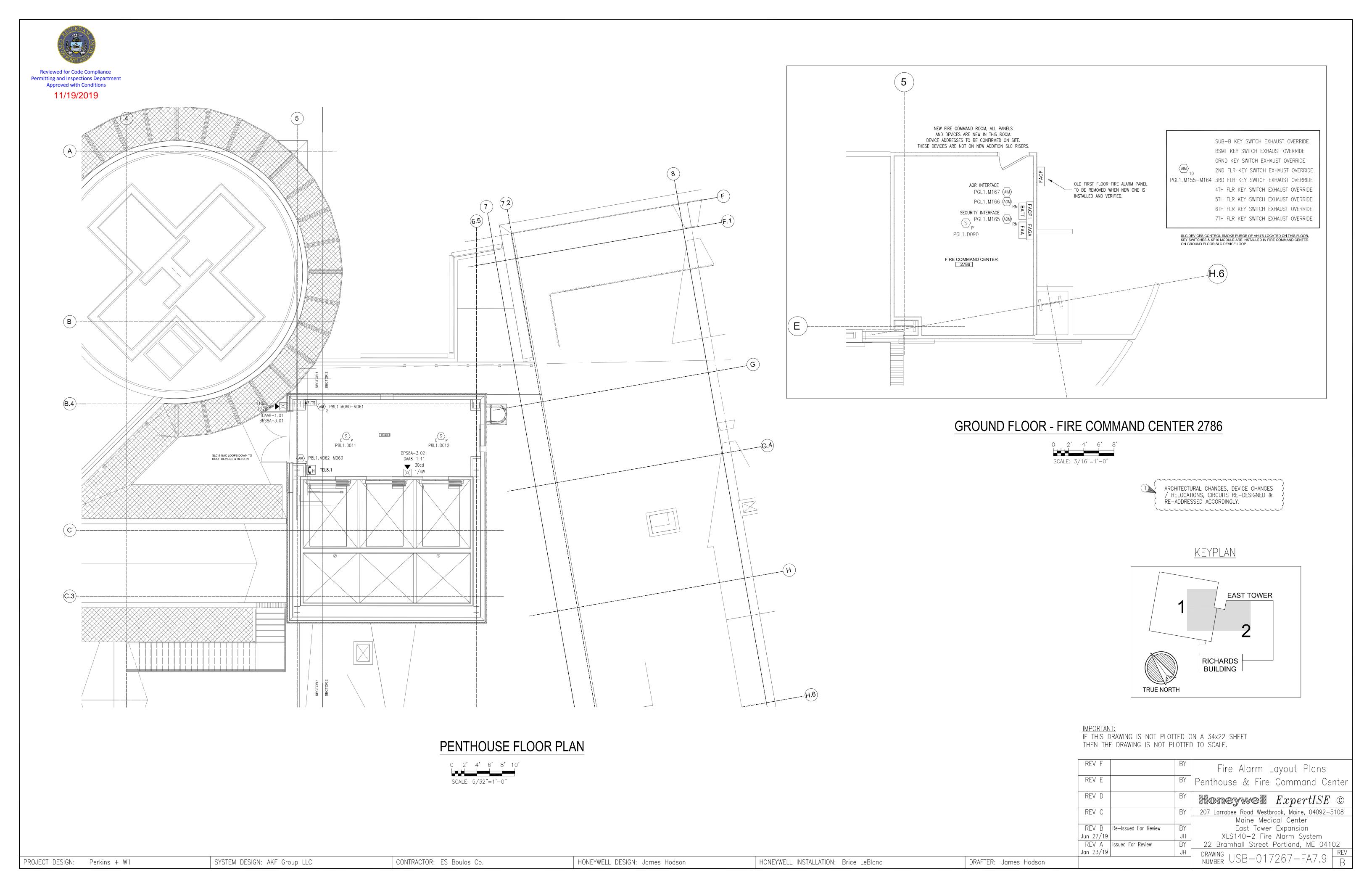














Reviewed for Code Compliance Permitting and Inspections Department Approved with Conditions

11/19/2019

Equipment: FACP1 Location: 1st Floor (FCC 2786)

Battery Amp—Hours Calculation

Standby Alarm Time (tAlarm)	15	Minutes
Standby Supervisory Time (tSupv)	24	Hours
Safety Factor (SF)	1.2	(Multiplier)

		Supply	Alarm	Supervisory	Total	Total	
Part No. (Setting)	Quantity	Current (mA)	Current (mA)	Current (mA)	Alarm (A)	Supv. (A)	Amp Hours
XLS140-CPU2 (1 SLC LOADED)	1	6000	450	450	0.450	0.450	10.91
LEM-320 (FULL LOAD)	1	0	300	300	0.300	0.300	7.28
NCM-W	4	0	110	110	0.440	0.440	10.67
XLS-DVC-EM	1	0	440	440	0.440	0.440	10.67
DVC-KD	1	0	60	60	0.060	0.060	1.46
LDM-32	1	0	56	40	0.056	0.040	0.97
XLS-NCA2	2	0	400	200	0.800	0.400	9.80
SCS-8L	1	0	33	33	0.033	0.033	0.80
SCE-8L	1	0	5	5	0.005	0.005	0.12
LDM-32	1	0	56	40	0.056	0.040	0.97
Totals		6000			2.640	2.208	

Battery Amp—Hour Calculation Formula: ((tAlarm * iAlm) + (tSupv x iSupv)) x SF

Equipments: FACP1—AMPS Locations: 1st Floor (FCC 2786)

Battery Amp—Hours Calculation

Standby Alarm Time (tAlarm)	15	Minutes
Standby Supervisory Time (tSupv)	24	Hours
Safety Factor (SF)	1.2	(Multiplier)

		Supply	Alarm	Supervisory	Total	Total	
Part No. (Setting)	Quantity	Current (mA)	Current (mA)	Current (mA)	Alarm (A)	Supv. (A)	Amp Hours
DAA2-5070	2	0	3750	400	7.500	0.800	21.08
BDA-70V (DAA2)	2	0	235	100	0.470	0.200	4.92
Totalo		0			7.070	1 000	

Battery Amp—Hour Calculation Formula: ((tAlarm * iAlm) + (tSupv x iSupv)) x SF Total Battery Load (AH)25.99Total Battery Required (AH)31.19

Total Battery Load (AH)

Total Battery Required (AH)

Supplied Battery Capacity

64.38

75 AH

Supplied Battery Capacity 35

BATTERY CALCULATIONS

Equipments: FACP6—AMPS Locations: 6th Floor (Room — 6083)

Battery Amp—Hours Calculation

Standby Alarm Time (tAlarm)	15	Minutes
Standby Supervisory Time (tSupv)	24	Hours
Safety Factor (SF)	1.2	(Multiplier)

		C 1	A 1	· ·	T 1 1	T 1 1	
		Supply	Alarm	Supervisory	Total	Total	
Part No. (Setting)	Quantity	Current (mA)	Current (mA)	Current (mA)	Alarm (A)	Supv. (A)	Amp Hours
DAA2-5070	2	0	3750	400	7.500	0.800	21.08
BDA-70V (DAA2)	2	0	235	100	0.470	0.200	4.92
Totals		0			7.970	1.000	

15 Minutes

1.2 (Multiplier)

Supply

Alarm

Current (mA) | Current (mA) |

Supervisory

Total

0.450

Total Battery Load (AH)

Supplied Battery Capacity

Total Battery Required (AH)

24 Hours

Quantity

Battery Amp—Hour Calculation Formula: ((tAlarm * iAlm) + (tSupv x iSupv)) x SF

Location: 7th Floor (Room — 7083)

Equipment: FACP7

Safety Factor (SF)

KDM-R2 NCM-W

Battery Amp—Hours Calculation

tandby Alarm Time (tAlarm)

Standby Supervisory Time (tSupv)

Part No. (Setting)

OF NACS USED ON XLS140-2

Battery Amp—Hour Calculation Formula:

((tAlarm * iAlm) + (tSupv x iSupv)) x SF

(LS140-CPU2 (1 SLC LOADED)

Total Batte	ery Load (A	1)	25.99
Total Batte	ery Required	(AH)	31.19

Supplied Battery Capacity 35 AH

Total

0.450

Supv. (A) Amp Hours

Equipment: FACP8

Location: Penthouse (Room — 8040)

Battery Amp—Hours Calculation

Standby Alarm Time (tAlarm)	15	Minutes
Standby Supervisory Time (tSupv) 24	Hours
Safety Factor (SF)	1.2	(Multiplier)

		Supply	Alarm	Supervisory	Total	Total	
Part No. (Setting)	Quantity	Current (mA)	Current (mA)	Current (mA)	Alarm (A)	Supv. (A)	Amp Hours
XLS140-CPU2 (1 SLC LOADED)	1	6000	450	450	0.450	0.450	10.91
# OF NACS USED ON XLS140-2	1	0	35	35	0.035	0.035	0.85
KDM-R2	1	0	100	100	0.100	0.100	2.43
NCM-W	1	0	110	110	0.110	0.110	2.67
Totals		6000			0.695	0.695	

Battery Amp—Hour Calculation Formula: ((tAlarm * iAlm) + (tSupv x iSupv)) x SF

Total Battery Load	(AH)	16.85
Total Battery Required	(AH)	20.22

Supplied Battery Capacity 26 AH

Equipments: FACP8—AMP Locations: Penthouse (Room — 8040)

Battery Amp—Hours Calculation

Standby Alarm Time (tAlarm)	15	Minutes
Standby Supervisory Time (tSupv)	24	Hours
Safety Factor (SF)	1.2	(Multiplier)

		Supply	Alarm	Supervisory	Total	Total	
Part No. (Setting)	Quantity	Current (mA)	Current (mA)	Current (mA)	Alarm (A)	Supv. (A)	Amp Hours
DAA2-5070	1	0	3750	400	3.750	0.400	10.54
BDA-70V (DAA2)	1	0	235	100	0.235	0.100	2.46
Totals		0			3.985	0.500	

Battery Amp—Hour Calculation Formula: ((tAlarm * iAlm) + (tSupv x iSupv)) x SF

Total Battery Load (AH)	13.00
Total Battery Required (AH)	15.60

Supplied Battery Capacity 18 AH

Equipment: FACP6

Location: 6th Floor (Room — 6083)

Battery Amp—Hours Calculation

Standby Alarm Time (tAlarm)	15	Minutes
Standby Supervisory Time (tSupv)	24	Hours
Safety Factor (SF)	1.2	(Multiplier)

		Supply	Alarm	Supervisory	Total	Total	
D M (C)	0 1:1	 	- / /				Λ 1.1
Part No. (Setting)	Quantity	Current (mA)	Current (mA)	Current (mA)	Alarm (A)	Supv. (A)	Amp Hours
XLS140-CPU2 (1 SLC LOADED)	1	6000	450	450	0.450	0.450	10.91
# OF NACS USED ON XLS140-2	1	0	35	35	0.035	0.035	0.85
KDM-R2	1	0	100	100	0.100	0.100	2.43
NCM-W	1	0	110	110	0.110	0.110	2.67
Totals		6000			0.695	0.695	

Battery Amp—Hour Calculation Formula: ((tAlarm * iAlm) + (tSupv x iSupv)) x SF Total Battery Load (AH) 16.85
Total Battery Required (AH) 20.22

Supplied Battery Capacity 26 AH

Equipments: FACP7—AMP

Locations: 7th Floor (Room — 7083)

Battery Amp—Hours Calculation

Standby Alarm Time (tAlarm)	15	Minutes
Standby Supervisory Time (tSupv)	24	Hours
Safety Factor (SF)	1.2	(Multiplier)

		Supply	Alarm	Supervisory	Total	Total	
Part No. (Setting)	Quantity	Current (mA)	Current (mA)	Current (mA)	Alarm (A)	Supv. (A)	Amp Hours
DAA2-5070	1	0	3750	400	3.750	0.400	10.54
BDA-70V (DAA2)	1	0	235	100	0.235	0.100	2.46
Totals		0			3.985	0.500	

Battery Amp—Hour Calculation Formula: ((tAlarm * iAlm) + (tSupv x iSupv)) x SF Total Battery Load (AH)13.00Total Battery Required (AH)15.60

Supplied Battery Capacity

ARCHITECTURAL CHANGES, DEVICE CHANGES
/ RELOCATIONS, CIRCUITS RE-DESIGNED &
RE-ADDRESSED ACCORDINGLY.

REV F	BY	Battery Calculation
REV E	BY	Sheet 1 of 2
REV D	BY	Honeywell ExpertI
REV C	BY	207 Larrabee Road Westbrook, Maine, 04
		Maine Medical Center

REV C

REV C

REV B

Re-Issued For Review

REV A

Jan 23/19

REV D

BY

207 Larrabee Road Westbrook, Maine, 04092-5108

Maine Medical Center

East Tower Expansion

XLS140-2 Fire Alarm System

22 Bramhall Street Portland, ME 04102

DRAWING LICED 017267 FAR 1

HONEYWELL INSTALLATION: Brice LeBlanc Brice



BATTERY CALCULATIONS

Equipment: BPS6A

Location: 6th Floor (Room 6083)

Battery Amp—Hours Calculation

Standby Alarm Time (tAlarm)	15	Minutes
Standby Supervisory Time (tSupv)	24	Hours
Derating Factor (DF)	1.2	(Multiplier)

		Supply	Alarm	Supervisory	Total	Total	
Part No. (Setting)	Quantity	Current (mA)	Current (mA)	Current (mA)	Alarm (A)	Supv. (A)	Amp Hours
AL842ULADA	1	8000	175	90	0.175	0.090	2.20
SPSRL [15cd]	20	0	43	0	0.860	0.000	0.22
SRL [15cd]	42	0	43	0	1.806	0.000	0.45
Totals		8000			2.841	0.090	

Battery Amp—Hour Calculation Formula:

((tAlarm * iAlm) + (tSupv x iSupv)) x SF

Total Battery Load (AH) 2.87
Total Battery Required (AH) 3.44

Supplied Battery Capacity 7 A

Equipment: BPS7A

Location: 7th Floor (Room 7083)

Battery Amp—Hours Calculation

Standby Alarm Time (tAlarm)	15	Minutes
Standby Supervisory Time (tSupv)	24	Hours
Derating Factor (DF)	1.2	(Multiplier)

		Supply	Alarm	Supervisory	Total	Total	
Part No. (Setting)	Quantity	Current (mA)	Current (mA)	Current (mA)	Alarm (A)	Supv. (A)	Amp Hours
AL842ULADA	1	8000	175	90	0.175	0.090	2.20
SPSRL [15cd]	19	0	43	0	0.817	0.000	0.20
SRL [15cd]	41	0	43	0	1.763	0.000	0.44
Totals		8000			2.755	0.090	

Battery Amp—Hour Calculation Formula:

((tAlarm * iAlm) + (tSupv x iSupv)) x SF

Total Battery Load (AH) 2.85
Total Battery Required (AH) 3.42

Supplied Battery Capacity

Equipment: BPS8A

Location: Penthouse (Room 8040—1)

Battery Amp—Hours Calculation

Standby Alarm Time (tAlarm)	15	Minutes
Standby Supervisory Time (tSupv)	24	Hours
Derating Factor (DF)	1.2	(Multiplier)

		Supply	Alarm	Supervisory	Total	Total	
Part No. (Setting)	Quantity	Current (mA)	Current (mA)	Current (mA)	Alarm (A)	Supv. (A)	Amp Hours
AL842ULADA	1	8000	175	90	0.175	0.090	2.20
SPSRK [110cd]	1	0	202	0	0.202	0.000	0.05
SPSRK [75cd]	8	0	158	0	1.264	0.000	0.32
SPSRL [30cd]	2	0	63	0	0.126	0.000	0.03
Totals		8000			1.767	0.090	

Battery Amp—Hour Calculation Formula:

((tAlarm * iAlm) + (tSupv x iSupv)) x SF

Total Battery Load (AH) 2.60
Total Battery Required (AH) 3.12

Supplied Battery Capacity 7 A

Equipment: BPS6B Location: 6th Floor (Room 6083)

Battery Amp—Hours Calculation

tandby Alarm Time (tAlarm)	15	Minutes
Standby Supervisory Time (tSupv)	24	Hours
Perating Factor (DF)	1.2	(Multiplier)

		Supply	Alarm	Supervisory	Total	Total	
Part No. (Setting)	Quantity	Current (mA)	Current (mA)	Current (mA)	Alarm (A)	Supv. (A)	Amp Hours
AL842ULADA	1	8000	175	90	0.175	0.090	2.20
SPSRL [15cd]	21	0	43	0	0.903	0.000	0.23
SPSRL [30cd]	3	0	63	0	0.189	0.000	0.05
SRL [15cd]	37	0	43	0	1.591	0.000	0.40
Totals		8000			2.858	0.090	

Battery Amp—Hour Calculation Formula: ((tAlarm * iAlm) + (tSupv x iSupv)) x SF Total Battery Load (AH) 2.
Total Battery Required (AH) 3.

Supplied Battery Capacity 7 A

Equipment: BPS7B

Location: 7th Floor (Room 7083)

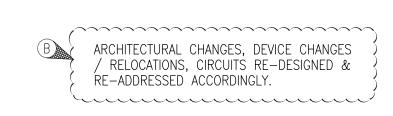
Battery Amp—Hours Calculation

Standby Alarm Time (tAlarm)	15	Minutes
Standby Supervisory Time (tSupv)	24	Hours
Derating Factor (DF)	1.2	(Multiplier)

		Supply	Alarm	Supervisory	Total	Total	
Part No. (Setting)	Quantity	Current (mA)	Current (mA)	Current (mA)	Alarm (A)	Supv. (A)	Amp Hours
AL842ULADA	1	8000	175	90	0.175	0.090	2.20
SPSRL [15cd]	18	0	43	0	0.774	0.000	0.19
SPSRL [30cd]	4	0	63	0	0.252	0.000	0.06
SRL [15cd]	38	0	43	0	1.634	0.000	0.4
Totals		8000			2.835	0.090	

Battery Amp—Hour Calculation Formula: ((tAlarm * iAlm) + (tSupv x iSupv)) x SF Total Battery Load (AH) 2.87
Total Battery Required (AH) 3.44

Supplied Battery Capacity 7 A



REV F		BY	
REV E		BY	
REV D		BY	
REV C		BY	207
REV B	Re-Issued For Review	BY	
un 27/19		JH	
REV A	Issued For Review	BY	22
an 23/19		JH	DRA
·			MH

Battery Calculation Sheet 2 of 2

207 Larrabee Road Westbrook, Maine, 04092-5108

Maine Medical Center
East Tower Expansion
XLS140-2 Fire Alarm System
22 Bramhall Street Portland, ME 04102

REV A Issued For Review Jun 23/19 Perkins + Will SYSTEM DESIGN: AKF Group LLC CONTRACTOR: ES Boulos Co. HONEYWELL DESIGN: James Hodson HONEYWELL INSTALLATION: Brice LeBlanc DRAFTER: James Hodson USB-017267-FA8



Source Voltage 20.40 VDC Wire Gauge Resistance/1000 Feet TOTAL CIRCUIT CURRENT TOTAL CIRCUIT LENGTH (FEET)

END OF LINE VOLTAGE

NOTIFICATION APPLIANCE VOLTAGE DROP CALCULATIONS

Circuit Name

19.34 VD(

PERCENT DROP

Sequence No.	Device Type	Setting	Current	Distance From Prev.	Current at Device	Cum. Voltage Drop	Voltage At Device
1	SPSRL	15	0.043	93	0.688	0.392	20.008
2	SRL	15	0.043	41	0.645	0.556	19.844
3	SPSRL	15	0.043	13	0.602	0.603	19.797
4	SPSRL	15	0.043	10	0.559	0.637	19.763
5	SPSRL	15	0.043	31	0.516	0.735	19.665
6	SPSRL	15	0.043	11	0.473	0.768	19.632
7	SRL	15	0.043	44	0.430	0.884	19.516
8	SRL	15	0.043	8	0.387	0.903	19.497
9	SRL	15	0.043	28	0.344	0.962	19.438
10	SRL	15	0.043	8	0.301	0.977	19.423
11	SRL	15	0.043	19	0.258	1.007	19.393
12	SRL	15	0.043	8	0.215	1.017	19.383
13	SRL	15	0.043	28	0.172	1.047	19.353
14	SRL	15	0.043	8	0.129	1.053	19.347
15	SRL	15	0.043	18	0.086	1.063	19.337
16	SRL	15	0.043	8	0.043	1.065	19.335

Source Voltage 20.40 VDC 14 AWG Wire Gauge Resistance/1000 Feet TOTAL CIRCUIT CURRENT 0.65 A TOTAL CIRCUIT LENGTH (FEET) 463.39 19.06 VDC END OF LINE VOLTAGE

NOTIFICATION APPLIANCE VOLTAGE DROP CALCULATIONS

Circuit Name

PERCENT DROP

Sequence No.	Device Type	Setting	Current	Distance From Prev.	Current at Device	Cum. Voltage Drop	Voltage At Device
1	SRL	15	0.043	207	0.645	0.820	19.580
2	SRL	15	0.043	23	0.602	0.906	19.494
3	SPSRL	15	0.043	21	0.559	0.976	19.424
4	SRL	15	0.043	22	0.516	1.046	19.354
5	SRL	15	0.043	8	0.473	1.069	19.331
6	SRL	15	0.043	28	0.430	1.143	19.257
7	SRL	15	0.043	8	0.387	1.162	19.238
8	SRL	15	0.043	18	0.344	1.201	19.199
9	SRL	15	0.043	8	0.301	1.215	19.185
10	SRL	15	0.043	28	0.258	1.260	19.140
11	SRL	15	0.043	8	0.215	1.270	19.130
12	SRL	15	0.043	35	0.172	1.308	19.092
13	SRL	15	0.043	21	0.129	1.324	19.076
14	SRL	15	0.043	20	0.086	1.335	19.065
15	SRL	15	0.043	8	0.043	1.337	19.063

Source Voltage Wire Gauge Resistance/1000 Feet TOTAL CIRCUIT CURRENT TOTAL CIRCUIT LENGTH (FEET) END OF LINE VOLTAGE

20.40 VDC 3.07 OHMS 0.69 A 472.25 19.25 VD0

NOTIFICATION APPLIANCE VOLTAGE DROP CALCULATIONS Circuit Name

PERCENT DROP

Sequence No.	Device Type	Setting	Current	Distance From Prev.	Current at Device	Cum. Voltage Drop	Voltage At Device
1	SPSRL	15	0.043	68	0.688	0.287	20.113
2	SPSRL	15	0.043	25	0.645	0.384	20.016
3	SRL	15	0.043	18	0.602	0.451	19.949
4	SPSRL	15	0.043	35	0.559	0.570	19.830
5	SPSRL	15	0.043	25	0.516	0.650	19.750
6	SPSRL	15	0.043	18	0.473	0.703	19.697
7	SPSRL	15	0.043	50	0.430	0.835	19.565
8	SPSRL	15	0.043	18	0.387	0.878	19.522
9	SPSRL	15	0.043	52	0.344	0.988	19.412
10	SRL	15	0.043	25	0.301	1.034	19.366
11	SPSRL	15	0.043	27	0.258	1.077	19.323
12	SPSRL	15	0.043	13	0.215	1.095	19.305
13	SPSRL	15	0.043	25	0.172	1.121	19.279
14	SPSRL	15	0.043	15	0.129	1.133	19.267
15	SRL	15	0.043	24	0.086	1.146	19.254
16	SPSRL	15	0.043	33	0.043	1.155	19.245

Source Voltage Wire Gauge Resistance/1000 Feet TOTAL CIRCUIT CURRENT TOTAL CIRCUIT LENGTH (FEET) END OF LINE VOLTAGE

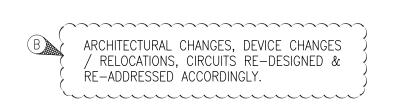
20.40 VDC 14 AWG 0.65 A 322.27 19.59 VD(

NOTIFICATION APPLIANCE VOLTAGE DROP CALCULATIONS

Circuit Name

PERCENT DROP

Sequence No.	Device Type	Setting	Current	Distance From Prev.	Current at Device	Cum. Voltage Drop	Voltage At Device
1	SRL	15	0.043	77	0.645	0.303	20.097
2	SRL	15	0.043	8	0.602	0.333	20.067
3	SRL	15	0.043	30	0.559	0.436	19.964
4	SRL	15	0.043	8	0.516	0.462	19.938
5	SRL	15	0.043	23	0.473	0.528	19.872
6	SRL	15	0.043	27	0.430	0.600	19.800
7	SPSRL	15	0.043	22	0.387	0.651	19.749
8	SRL	15	0.043	21	0.344	0.696	19.704
9	SRL	15	0.043	8	0.301	0.711	19.689
10	SRL	15	0.043	28	0.258	0.755	19.645
11	SRL	15	0.043	8	0.215	0.766	19.634
12	SRL	15	0.043	19	0.172	0.785	19.615
13	SRL	15	0.043	8	0.129	0.792	19.608
14	SRL	15	0.043	28	0.086	0.806	19.594
15	SRL	15	0.043	8	0.043	0.809	19.591



REV F		BY	
REV E		BY	
REV D		BY	
REV C		BY	
REV B	Re-Issued For Review	BY	
Jun 27/19		JH	
REV A	Issued For Review	BY	
Jan 23/19		JH	

Line loss Calculation Sheet 1 of 5

Eloneywell ExpertISE © 207 Larrabee Road Westbrook, Maine, 04092-5108

Maine Medical Center

East Tower Expansion

XLS140-2 Fire Alarm System

22 Bramhall Street Portland, ME 04102

SYSTEM DESIGN: AKF Group LLC PROJECT DESIGN: Perkins + Will

CONTRACTOR: ES Boulos Co.

HONEYWELL DESIGN: James Hodson

HONEYWELL INSTALLATION: Brice LeBlanc

DRAFTER: James Hodson



Source Voltage 20.40 VD Wire Gauge Resistance/1000 Feet 3.07 OHM TOTAL CIRCUIT CURRENT TOTAL CIRCUIT LENGTH (FEET) 363.1

19.47 VD

END OF LINE VOLTAGE

NOTIFICATION APPLIANCE VOLTAGE DROP CALCULATIONS

Circuit Name

PERCENT DROP

Sequence No.	Device Type	Setting	Current	Distance From Prev.	Current at Device	Cum. Voltage Drop	Voltage At Device
1	SPSRL	15	0.043	45	0.728	0.201	20.199
2	SRL	15	0.043	13	0.685	0.257	20.143
3	SPSRL	15	0.043	40	0.642	0.415	19.985
4	SRL	15	0.043	16	0.599	0.474	19.926
5	SRL	15	0.043	8	0.556	0.500	19.900
6	SPSRL	30	0.063	39	0.513	0.623	19.777
7	SRL	15	0.043	31	0.450	0.708	19.692
8	SRL	15	0.043	11	0.407	0.737	19.663
9	SRL	15	0.043	25	0.364	0.792	19.608
10	SRL	15	0.043	16	0.321	0.823	19.577
11	SPSRL	30	0.063	21	0.278	0.858	19.542
12	SPSRL	15	0.043	16	0.215	0.879	19.521
13	SPSRL	15	0.043	8	0.172	0.887	19.513
14	SRL	15	0.043	30	0.129	0.911	19.489
15	SPSRL	15	0.043	8	0.086	0.915	19.485
16	SPSRL	15	0.043	37	0.043	0.925	19.475

Source Voltage 20.40 VDC Wire Gauge 14 AWG Resistance/1000 Feet TOTAL CIRCUIT CURRENT 0.56 A TOTAL CIRCUIT LENGTH (FEET) 321.48 END OF LINE VOLTAGE 19.71 VD(

NOTIFICATION APPLIANCE VOLTAGE DROP CALCULATIONS

Circuit Name

PERCENT DROP

Sequence No.	Device Type	Setting	Current	Distance From Prev.	Current at Device	Cum. Voltage Drop	Voltage At Device
1	SRL	15	0.043	87	0.559	0.297	20.103
2	SPSRL	15	0.043	9	0.516	0.326	20.074
3	SRL	15	0.043	14	0.473	0.368	20.032
4	SRL	15	0.043	45	0.430	0.486	19.914
5	SRL	15	0.043	11	0.387	0.512	19.888
6	SRL	15	0.043	22	0.344	0.560	19.840
7	SRL	15	0.043	8	0.301	0.575	19.825
8	SRL	15	0.043	25	0.258	0.615	19.785
9	SRL	15	0.043	9	0.215	0.626	19.774
10	SRL	15	0.043	27	0.172	0.655	19.745
11	SRL	15	0.043	21	0.129	0.672	19.728
12	SRL	15	0.043	34	0.086	0.690	19.710
13	SRL	15	0.043	8	0.043	0.692	19.708

Source Voltage Wire Gauge Resistance/1000 Feet TOTAL CIRCUIT CURRENT TOTAL CIRCUIT LENGTH (FEET) END OF LINE VOLTAGE

20.40 VDC 3.07 OHMS 0.67 A 367.33 19.51 VD0

NOTIFICATION APPLIANCE VOLTAGE DROP CALCULATIONS

Circuit Name

PERCENT DROP

Sequence No.	Device Type	Setting	Current	Distance From Prev.	Current at Device	Cum. Voltage Drop	Voltage At Device
1	SPSRL	15	0.043	30	0.665	0.124	20.276
2	SRL	15	0.043	22	0.622	0.206	20.194
3	SPSRL	15	0.043	29	0.579	0.308	20.092
4	SPSRL	30	0.063	30	0.536	0.405	19.995
5	SPSRL	15	0.043	64	0.473	0.591	19.809
6	SPSRL	15	0.043	10	0.430	0.617	19.783
7	SRL	15	0.043	14	0.387	0.650	19.750
8	SPSRL	15	0.043	48	0.344	0.752	19.648
9	SPSRL	15	0.043	25	0.301	0.799	19.601
10	SPSRL	15	0.043	21	0.258	0.832	19.568
11	SRL	15	0.043	8	0.215	0.843	19.557
12	SPSRL	15	0.043	16	0.172	0.860	19.540
13	SPSRL	15	0.043	21	0.129	0.876	19.524
14	SPSRL	15	0.043	14	0.086	0.884	19.516
15	SPSRL	15	0.043	16	0.043	0.888	19.512

Source Voltage Wire Gauge Resistance/1000 Feet TOTAL CIRCUIT CURRENT TOTAL CIRCUIT LENGTH (FEET) END OF LINE VOLTAGE

Device Type

SPSRL

SPSRL

SRL

SRL

SRL

SPSRL

SRL

SRL

SRL

Sequence No.

11

17

20.40 VDC 14 AWG 0.73 A 367.4 19.36 VD0

15

15

15

15

15

15

Circuit Name

0.043

0.043

0.043

0.043

0.043

0.043 0.043

0.043

0.043

0.043

0.043

0.043

0.043

0.043

0.043

0.043

0.043

NOTIFICATION APPLIANCE VOLTAGE DROP CALCULATIONS

0.086

0.043

PERCENT DROP

18

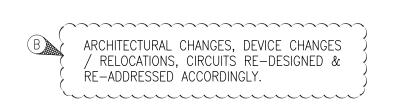
Current Distance From Prev. Current at Device Itage At Device m. Voltage Drop 0.249 20.151 0.731 0.688 0.403 19.997 0.571 0.645 19.829 43 0.602 19.798 0.602 0.559 0.665 19.735 0.690 0.516 19.710 0.473 0.777 19.623 0.430 0.798 19.602 0.387 0.882 19.518 0.344 24 0.933 19.467 0.301 0.964 19.436 0.986 0.258 19.414 19.404 0.215 0.996 1.025 19.375 0.172 0.129 19.368

1.042

1.044

19.358

19.356



REV F		BY	
REV E		BY	
REV D		BY	
REV C		BY	
REV B	Re-Issued For Review	BY	
Jun 27/19		JH	
REV A	Issued For Review	BY	
Jan 23/19		JH	

Line loss Calculation Sheet 2 of 5

Honeywell ExpertISE © 207 Larrabee Road Westbrook, Maine, 04092-5108 Maine Medical Center
East Tower Expansion
XLS140-2 Fire Alarm System
22 Bramhall Street Portland, ME 04102

PROJECT DESIGN: Perkins + Will SYSTEM DESIGN: AKF Group LLC

CONTRACTOR: ES Boulos Co.

HONEYWELL DESIGN: James Hodson

HONEYWELL INSTALLATION: Brice LeBlanc

DRAFTER: James Hodson



Source Voltage 20.40 VD0 Wire Gauge Resistance/1000 Feet 3.07 OHMS TOTAL CIRCUIT CURRENT

NOTIFICATION APPLIANCE VOLTAGE DROP CALCULATIONS

Circuit Name

TOTAL CIRCUIT LENGTH (FEET) 366.93 END OF LINE VOLTAGE 19.41 VD(

PERCENT DROP

Sequence No.	Device Type	Setting	Current	Distance From Prev.	Current at Device	Cum. Voltage Drop	Voltage At Device
1	SPSRL	15	0.043	93	0.645	0.368	20.032
2	SRL	15	0.043	41	0.602	0.520	19.880
3	SPSRL	15	0.043	9	0.559	0.552	19.848
4	SPSRL	15	0.043	35	0.516	0.664	19.736
5	SPSRL	15	0.043	11	0.473	0.696	19.704
6	SRL	15	0.043	44	0.430	0.813	19.587
7	SRL	15	0.043	8	0.387	0.832	19.568
8	SRL	15	0.043	28	0.344	0.891	19.509
9	SRL	15	0.043	8	0.301	0.905	19.495
10	SRL	15	0.043	19	0.258	0.935	19.465
11	SRL	15	0.043	8	0.215	0.946	19.454
12	SRL	15	0.043	28	0.172	0.975	19.425
13	SRL	15	0.043	8	0.129	0.981	19.419
14	SRL	15	0.043	18	0.086	0.991	19.409
15	SRL	15	0.043	8	0.043	0.993	19.407

Source Voltage 20.40 VDC Wire Gauge 14 AWG Resistance/1000 Feet TOTAL CIRCUIT CURRENT 0.65 A TOTAL CIRCUIT LENGTH (FEET) 461.24 END OF LINE VOLTAGE 19.07 VDC

NOTIFICATION APPLIANCE VOLTAGE DROP CALCULATIONS

Circuit Name

PERCENT DROP

Sequence No.	Device Type	Setting	Current	Distance From Prev.	Current at Device	Cum. Voltage Drop	Voltage At Device
1	SRL	15	0.043	207	0.645	0.820	19.580
2	SRL	15	0.043	23	0.602	0.906	19.494
3	SPSRL	15	0.043	25	0.559	0.993	19.407
4	SRL	15	0.043	15	0.516	1.040	19.360
5	SRL	15	0.043	8	0.473	1.063	19.337
6	SRL	15	0.043	28	0.430	1.137	19.263
7	SRL	15	0.043	8	0.387	1.156	19.244
8	SRL	15	0.043	18	0.344	1.195	19.205
9	SRL	15	0.043	8	0.301	1.210	19.190
10	SRL	15	0.043	28	0.258	1.254	19.146
11	SRL	15	0.043	8	0.215	1.265	19.135
12	SRL	15	0.043	35	0.172	1.302	19.098
13	SRL	15	0.043	21	0.129	1.319	19.081
14	SRL	15	0.043	20	0.086	1.329	19.071
15	SRL	15	0.043	8	0.043	1.331	19.069

Source Voltage Wire Gauge Resistance/1000 Feet TOTAL CIRCUIT CURRENT TOTAL CIRCUIT LENGTH (FEET) END OF LINE VOLTAGE

20.40 VDC 3.07 OHMS 0.65 A 472.7 19.31 VD0

NOTIFICATION APPLIANCE VOLTAGE DROP CALCULATIONS

Circuit Name

PERCENT DROP

Sequence No.	Device Type	Setting	Current	Distance From Prev.	Current at Device	Cum. Voltage Drop	Voltage At Device
1	SPSRL	15	0.043	65	0.645	0.256	20.144
2	SPSRL	15	0.043	28	0.602	0.359	20.041
3	SRL	15	0.043	18	0.559	0.421	19.979
4	SPSRL	15	0.043	35	0.516	0.531	19.869
5	SPSRL	15	0.043	25	0.473	0.604	19.796
6	SPSRL	15	0.043	18	0.430	0.652	19.748
7	SPSRL	15	0.043	50	0.387	0.771	19.629
8	SPSRL	15	0.043	18	0.344	0.810	19.590
9	SPSRL	15	0.043	52	0.301	0.905	19.495
10	SPSRL	15	0.043	52	0.258	0.987	19.413
11	SPSRL	15	0.043	34	0.215	1.032	19.368
12	SRL	15	0.043	24	0.172	1.058	19.342
13	SPSRL	15	0.043	18	0.129	1.072	19.328
14	SPSRL	15	0.043	17	0.086	1.081	19.319
15	SPSRL	15	0.043	19	0.043	1.086	19.314

Source Voltage Wire Gauge Resistance/1000 Feet TOTAL CIRCUIT CURRENT TOTAL CIRCUIT LENGTH (FEET) END OF LINE VOLTAGE

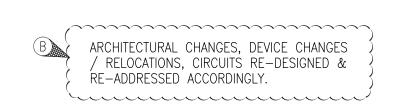
20.40 VDC 14 AWG 0.65 A 321.84 19.59 VD(

NOTIFICATION APPLIANCE VOLTAGE DROP CALCULATIONS

Circuit Name

PERCENT DROP

Sequence No.	Device Type	Setting	Current	Distance From Prev.	Current at Device	Cum. Voltage Drop	Voltage At Device
1	SRL	15	0.043	77	0.645	0.303	20.097
2	SRL	15	0.043	8	0.602	0.333	20.067
3	SRL	15	0.043	30	0.559	0.435	19.965
4	SRL	15	0.043	8	0.516	0.460	19.940
5	SRL	15	0.043	23	0.473	0.527	19.873
6	SRL	15	0.043	27	0.430	0.598	19.802
7	SPSRL	15	0.043	22	0.387	0.649	19.751
8	SRL	15	0.043	21	0.344	0.695	19.705
9	SRL	15	0.043	8	0.301	0.709	19.691
10	SRL	15	0.043	28	0.258	0.753	19.647
11	SRL	15	0.043	8	0.215	0.764	19.636
12	SRL	15	0.043	19	0.172	0.784	19.616
13	SRL	15	0.043	8	0.129	0.790	19.610
14	SRL	15	0.043	28	0.086	0.805	19.595
15	SRL	15	0.043	8	0.043	0.807	19.593



REV F		BY	
REV E		BY	
		וטו	
REV D		BY	
REV C		BY	
REV B	Re-Issued For Review	BY	
Jun 27/19		JH	
REV A	Issued For Review	BY	
Jan 23/19		JH	
		·	

Line loss Calculation Sheet 3 of 5

Eloneywell ExpertISE © 207 Larrabee Road Westbrook, Maine, 04092-5108

Maine Medical Center

East Tower Expansion

XLS140-2 Fire Alarm System

22 Bramhall Street Portland, ME 04102

SYSTEM DESIGN: AKF Group LLC CONTRACTOR: ES Boulos Co. HONEYWELL INSTALLATION: Brice LeBlanc DRAFTER: James Hodson HONEYWELL DESIGN: James Hodson PROJECT DESIGN: Perkins + Will



Source Voltage

Wire Gauge

Resistance/1000 Feet

TOTAL CIRCUIT CURRENT

TOTAL CIRCUIT LENGTH (FEET)

20.40 VDC

14 AWG

3.07 OHMS

0.75 A

367.33

19.40 VD

END OF LINE VOLTAGE

NOTIFICATION APPLIANCE VOLTAGE DROP CALCULATIONS

Circuit Name BPS7E

PERCENT DROP 4.90%

Sequence No.	Device Type	Setting	Current	Distance From Prev.	Current at Device	Cum. Voltage Drop	Voltage At Device
1	SRL	15	0.043	47	0.748	0.216	20.184
2	SPSRL	30	0.063	38	0.705	0.380	20.020
3	SRL	15	0.043	24	0.642	0.476	19.924
4	SRL	15	0.043	8	0.599	0.504	19.896
5	SPSRL	30	0.063	39	0.556	0.637	19.763
6	SRL	15	0.043	31	0.493	0.730	19.670
7	SRL	15	0.043	15	0.450	0.770	19.630
8	SRL	15	0.043	21	0.407	0.823	19.577
9	SRL	15	0.043	15	0.364	0.857	19.543
10	SPSRL	30	0.063	18	0.321	0.893	19.507
11	SPSRL	15	0.043	18	0.258	0.921	19.479
12	SRL	15	0.043	22	0.215	0.950	19.450
13	SRL	15	0.043	15	0.172	0.966	19.434
14	SPSRL	15	0.043	8	0.129	0.973	19.427
15	SPSRL	15	0.043	38	0.086	0.993	19.407
16	SPSRL	15	0.043	11	0.043	0.995	19.405

Source Voltage

Wire Gauge

Resistance/1000 Feet

TOTAL CIRCUIT CURRENT

TOTAL CIRCUIT LENGTH (FEET)

END OF LINE VOLTAGE

20.40 VDC

3.07 OHMS

7.07 OHMS

3.07 OHMS

7.07 OHMS

NOTIFICATION APPLIANCE VOLTAGE DROP CALCULATIONS

Circuit Name BPS76

PERCENT DROP

Sequence No.	Device Type	Setting	Current	Distance From Prev.	Current at Device	Cum. Voltage Drop	Voltage At Device
1	SRL	15	0.043	84	0.559	0.290	20.110
2	SPSRL	15	0.043	11	0.516	0.326	20.074
3	SRL	15	0.043	14	0.473	0.367	20.033
4	SRL	15	0.043	50	0.430	0.499	19.901
5	SRL	15	0.043	8	0.387	0.518	19.882
6	SRL	15	0.043	22	0.344	0.566	19.834
7	SRL	15	0.043	8	0.301	0.581	19.819
8	SRL	15	0.043	25	0.258	0.621	19.779
9	SRL	15	0.043	8	0.215	0.632	19.768
10	SRL	15	0.043	19	0.172	0.652	19.748
11	SRL	15	0.043	21	0.129	0.669	19.731
12	SRL	15	0.043	34	0.086	0.687	19.713
13	SRL	15	0.043	8	0.043	0.689	19.711

Source Voltage
Wire Gauge
Resistance/1000 Feet
TOTAL CIRCUIT CURRENT
TOTAL CIRCUIT LENGTH (FEET)
END OF LINE VOLTAGE

20.40 VDC 14 AWG 3.07 OHMS 0.62 A 365.07 19.53 VDC NOTIFICATION APPLIANCE VOLTAGE DROP CALCULATIONS

Circuit Name

BPS7B-3.

PERCENT DROP

Sequence No.	Device Type	Setting	Current	Distance From Prev.	Current at Device	Cum. Voltage Drop	Voltage At Device
1	SRL	15	0.043	46	0.622	0.175	20.225
2	SPSRL	15	0.043	29	0.579	0.277	20.123
3	SPSRL	30	0.063	30	0.536	0.374	20.026
4	SPSRL	15	0.043	64	0.473	0.560	19.840
5	SPSRL	15	0.043	14	0.430	0.598	19.802
6	SRL	15	0.043	13	0.387	0.629	19.771
7	SPSRL	15	0.043	48	0.344	0.731	19.669
8	SPSRL	15	0.043	25	0.301	0.778	19.622
9	SPSRL	15	0.043	21	0.258	0.811	19.589
10	SRL	15	0.043	8	0.215	0.822	19.578
11	SPSRL	15	0.043	16	0.172	0.839	19.561
12	SPSRL	15	0.043	21	0.129	0.856	19.544
13	SPSRL	15	0.043	14	0.086	0.863	19.537
14	SPSRL	15	0.043	16	0.043	0.867	19.533

Source Voltage
Wire Gauge
Resistance/1000 Feet
TOTAL CIRCUIT CURRENT
TOTAL CIRCUIT LENGTH (FEET)
END OF LINE VOLTAGE

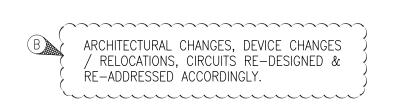
20.40 VDC 14 AWG 3.07 OHMS 0.73 A 384.55 19.31 VDC

NOTIFICATION APPLIANCE VOLTAGE DROP CALCULATIONS

Circuit Name

PERCENT DROP 5.34%

Sequence No. Itage At Device Device Type Current | Distance From Prev. | Current at Device m. Voltage Dro SPSRL 0.043 20.135 0.731 0.265 SPSRL 15 0.043 0.688 0.434 19.966 0.602 0.043 43 0.645 19.798 0.043 19.768 0.602 0.632 SRL 15 0.043 0.559 0.696 19.704 0.516 0.043 19.679 0.043 0.808 19.592 0.473 0.043 0.430 0.829 19.571 15 0.043 0.387 0.913 19.487 0.344 SRL 15 0.043 26 0.969 19.431 SPSRL 0.043 0.301 0.991 19.409 1.029 0.043 0.258 19.371 24 0.043 1.040 19.360 0.215 SRL 15 0.043 1.071 19.329 14 0.172 1.078 0.043 0.129 19.322 0.043 0.086 1.087 19.313 SRL 18 17 SRL 0.043 0.043 1.090 19.310 15



REV F		BY	
REV E		BY	
REV D		BY	
REV C		BY	20
REV B	Re-Issued For Review	BY	
Jun 27/19		JH	
REV A	Issued For Review	BY	4
Jan 23/19		JH	D
			N

Line loss Calculation Sheet 4 of 5

207 Larrabee Road Westbrook, Maine, 04092-5108

Maine Medical Center
East Tower Expansion
XLS140-2 Fire Alarm System
22 Bramhall Street Portland, ME 04102

REV A | Issued For Review | BY | 22 Bramhall Street Portland, ME (
| DRAWING | 1988 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 |



Source Voltage 20.40 VDC Wire Gauge Resistance/1000 Feet TOTAL CIRCUIT CURRENT

NOTIFICATION APPLIANCE VOLTAGE DROP CALCULATIONS

Circuit Name

TOTAL CIRCUIT LENGTH (FEET) 158.22 20.08 VDC END OF LINE VOLTAGE

PERCENT DROP

Sequence No.	Device Type	Setting	Current	Distance From Prev.	Current at Device	Cum. Voltage Drop	Voltage At Device
1	SPSRK	75	0.158	45	0.474	0.132	20.268
2	SPSRK	75	0.158	82	0.316	0.292	20.108
3	SPSRK	75	0.158	31	0.158	0.321	20.079

Source Voltage 20.40 VDC Wire Gauge 14 AWG Resistance/1000 Feet 3.07 OHMS TOTAL CIRCUIT CURRENT 0.85 A 237.45 TOTAL CIRCUIT LENGTH (FEET)

NOTIFICATION APPLIANCE VOLTAGE DROP CALCULATIONS

Circuit Name

END OF LINE VOLTAGE 19.66 VDC

PERCENT DROP

Sequence No.	Device Type	Setting	Current	Distance From Prev.	Current at Device	Cum. Voltage Drop	Voltage At Device
1	SPSRL	30	0.063	21	0.853	0.109	20.291
2	SPSRK	75	0.158	10	0.790	0.155	20.245
3	SPSRK	75	0.158	53	0.632	0.359	20.041
4	SPSRK	75	0.158	106	0.474	0.668	19.732
5	SPSRK	75	0.158	29	0.316	0.725	19.675
6	SPSRK	75	0.158	19	0.158	0.743	19.657

Source Voltage 20.40 VDC Wire Gauge 14 AWG Resistance/1000 Feet TOTAL CIRCUIT CURRENT 0.27 A TOTAL CIRCUIT LENGTH (FEET) 20.29 VDC

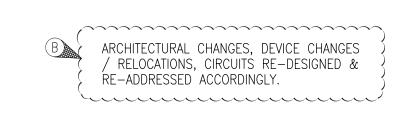
NOTIFICATION APPLIANCE VOLTAGE DROP CALCULATIONS

Circuit Name

END OF LINE VOLTAGE

PERCENT DROP

Sequence No.	Device Type	Setting	Current	Distance From Prev.	Current at Device	Cum. Voltage Drop	Voltage At Device
1	SPSRK	110	0.202	58	0.265	0.094	20.306
2	SPSRL	30	0.063	36	0.063	0.108	20.292



REV F		BY	Line loss Calculation
			Lille 1055 Calculation
REV E		BY	Sheet 5 of 5
REV D		BY	77 F7
NLV D		ы	\mid blomeywell $\mathit{ExpertIS}$
REV C		BY	207 Larrabee Road Westbrook, Maine, 04092
			Maine Medical Center
REV B	Re-Issued For Review	BY	East Tower Expansion
Jun 27/19		JH	XLS140-2 Fire Alarm System
REV A	Issued For Review	BY	22 Bramhall Street Portland, ME 0
Jan 23/19		JH	DRAWING LIGHT 047007 FAO 5
			DRAWING USB-017267-FA8.7

5 of 5 ExpertISE © Vestbrook, Maine, 04092-5108

Medical Center

Ewer Expansion

Fire Alarm System

						Jun 2//19	JH XLS140	-2 Fire Alarm System
						REV A Issued For Review	BY 22 Bramhall	Street Portland, ME 041
ROJECT DESIGN: Perkins + Will	SYSTEM DESIGN: AKF Group LLC	CONTRACTOR: ES Boulos Co.	HONEYWELL DESIGN: James Hodson	HONEYWELL INSTALLATION: Brice LeBlanc	DRAFTER: James Hodson		NUMBER USE	B-017267-FA8.7
	·	·	·	·				



PROJECT DESIGN: Perkins + Will

SYSTEM DESIGN: AKF Group LLC

CONTRACTOR: ES Boulos Co.

SEQUENCE OF OPERATIONS

	CONTR	ROL	UNIT	ANNU	INCIATION	Ν	IOTIF	ICATI	ON	RE	EQUIR	RED F	TRE S	SAFET	TY COI	NTROL	SI	UPPLE	MENTA	ARY
	System Outputs TE COMMON ALARM SIGNAL INDICATOR TE AUDIBLE ALARM SIGNAL	E COMMON SUPER	AUDIBLE SUPERVISORY SIGNAL	FE COMMON TROUBLE SIGNAL INDICATOR FE AUDIBLE TROUBLE SIGNAL			IE FLOOK FIRE ALAKM SIROBES PER ZONE TE SPEAKERS PER ZONE	FIRE ALARM SIG	SUPERVISORY SIGNAL TC TROUBLE SIGNAL TO SU	SE MAGNETICALLY HELD DOORS	ELEVATORS TO PRIMAF	ELEVATORS TO ALTE	SSOCIATED FSD'S (WITH DELAY)	ELEVATOR SHUNT			TE GRAPHICS ANNINCIATION	CORRDIOR SMOKE	URIZE DESIGNATED STAIRWELLS	
		TIVATI	IVATE	IVAT IVAT			- L 2 S			EASE		ALL The	SE	IVA	TAY		TIVATE		SS	
	ACTIV ACTIV	ACT	ACTIV/	ACTIV, ACTIV,			ACT ACT	TRA	TRANSMIT TRANSMIT		RECALL	RECALL		ACTIVATE	ACTIV,		A T	ACTIVATE	T C C	
System Inputs																				
MANUAL FIRE ALARM PULL STATIONS	XX						X	Χ									X	,	Χ	
AREA SMOKE DETECTORS	XX						XX	X		Х			X				X	X	Χ	
WATER FLOW SWITCHES	XX						XX	X		Х			X				X	X	Χ	
SMOKE DETECTORS — PRIMARY LEVEL ELEVATOR LOBBY	XX						XX			Х		X	X				X		Χ	
SMOKE DETECTORS — ALL LEVELS EXCEPT PRIMARY ELEVATOR LOBBY	XX						XX	X		Х	X		X				X	X	X	
HVAC UNIT SUPPLY/RETURN AIR DUCT SMOKE DETECTORS	XX						XX	X		X			< X				X	,		
HVAC RETURN AIR SYSTEM RISER DUCT SMOKE DETECTORS	XX					>	XX	X		X			X				X	,		
ELEVATOR SHAFT/MACH. ROOM SMOKE DETECTORS	XX						XX	X		X			X		X		X	X	X	
ELEVATOR SHUNT POWER LOSS		X	X						X								X	,		
VALVE SUPERVISORY SWITCHES		X	X						X								X	,		
FIRE PUMP RUNNING		X	X						X								X	,		
FIRE PUMP POWER FAILURE/PHASE REVERSAL		X	X						X								X	,		
SMOKE CONTROL EQUIPMENT LOSS OF POWER		X	X						X								X	,		
SMOKE CONTROL EQUIPMENT DISCONNECT SWITCHES		X	X						X								X	,		
EMERGENCY POWER MANUAL START/TRANSFER SWITCH(ES)		X	X						X								X	,		
HELIPAD PRE—ACTION PANEL 'ALARM'	XX						XX	X									X	,		
HELIPAD PRE-ACTION PANEL 'SUPERVISORY'		X	X						X								\top			
HELIPAD PRE-ACTION PANEL 'TROUBLE'				XX					X								\top			
DEVICE NO RESPONSE				XX					X	\top							\top			
FIRE ALARM AC POWER FAILURE				XX					X											
FIRE ALARM SYSTEM LOW BATTERY				XX					X	\top										
OPEN CIRCUIT				XX					X											
GROUND FAULT				XX					X											
NOTIFICATION APPLIANCE CIRCUIT SHORT				XX					X											
MANUAL CONTROLS AT SMOKE CONTROL STATION		+	 	- 		-			1 1		1 1							-	\	

HONEYWELL DESIGN: James Hodson

REV F		BY	Sequence of Operations
REV E		BY	
REV D		BY	Homeywell ExpertISE ©
REV C		BY	207 Larrabee Road Westbrook, Maine, 04092-5108
			Maine Medical Center
REV B		BY	East Tower Expansion
			XLS140-2 Fire Alarm System
REV A	Issued For Review	BY	22 Bramhall Street Portland, ME 04102
Jan 23/19		JH	DRAWING USB-017267-FA9.1 REV A

DRAFTER: James Hodson

HONEYWELL INSTALLATION: Brice LeBlanc