FIRE ALARM SYSTEM

SCOPE OF WORK

PROVIDE AN AUTOMATIC AND MANUAL FIRE ALARM SYSTEM FOR

.

THE SYSTEM SHALL INCLUDE THE FOLLOWING:

- FULL AUDIBLE VOICE AND VISUAL NOTIFICATION THROUGHOUT.
- SMOKE DETECTOR AND HEAT DETECTOR COVERAGE WILL BE PROVIDED THROUGHTOUT.
- SPRINKLER WATERFLOW, SUPERVISORY VALVES, GENERATOR AND PREACTION SYSTEM TO BE MONITORED BY THE FIRE ALARM SYSTEM.
- CONTROLS FOR HVAC SHUTDOWN, ELEVATOR RECALL.

A COMPLETE FUNCTIONAL PRE-TEST OF THE FIRE ALARM SYSTEM SHALL BE PERFORMED PRIOR TO CALLING FOR THE FINAL ACCEPTANCE TEST.

THE FIRE ALARM SYSTEM SHALL BE SUBJECT TO ACCEPTANCE TESTING IN ACCORDANCE WITH CHAPTER 14 OF NFPA 72. ALL TESTS SHALL BE CONDUCTED IN THE PRESENCE OF THE INSPECTOR OF RECORD AND/OR AUTHORITY HAVING JURISDICTION. A COPY OF ALL TRANSMITTED SIGNAL RECEIVED BY THE CENTRAL STATION SHALL BE PROVIDED FOR RECORD AT THE CONCLUSION OF TESTING.

A RECORD OF COMPLETION PER NFPA 72, § 7.5.6 SHALL BE PROVIDED AT TIME OF ACCEPTANCE TESTING TO THE INSPECTOR OF RECORD AND/OR AUTHORITY HAVING JURISDICTION. A COPY OF ALL SYSTEM DOCUMENTATION SHALL BE PROVIDED TO THE OWNER.

BUILDING INFORMATION

OCCUPANCY CLASS:	I-2, R-2, B1, B3
WORK AREA:	643,841 SQFT
NUMBER OF STORIES:	6 + BASEMENT
CONSTRUCTION TYPE:	I-A
FIRE PROTECTION:	FULLY SPRINKLERED

ABBREVIATIONS LEGEND

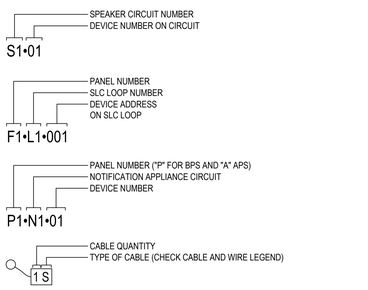
(E) = EXISTING
(N) = NEW
(R) = RELOCATED
(RC) = REMOVE AND COVER
(RD) = DEVICE TO BE RELOCATED
(RR) = REMOVE AND REPLACE
ACP = ACCESS CONTROL PANEL
ADDR= ADDRESS
AFF = ABOVE FINISHED FLOOR
ALRM= ALARM
AWG = AMERICAN WIRE GAUGE
BAS = BUILDING AUTOMATION SYSTEM
BATT = BATTERY
BLDG = BULDING
BPM = BEATS PER MINUTE
BPS = BOOSTER POWER SUPPLY
BOM = BILL OF MATERIALS
CA = CLEAN AGENT
CD = CANDELA
CKT = CIRCUIT
CV = CONTROL VALVE
DC = DOOR CONTROL
DET = DETECTOR
DEU = DELAY EGRESS HARDWARE
DH = DOOR HOLDER
DISP = DISPLAY
DO = DOOR OPERATOR
ECP = EXTINGUISHING CONTROL PANEL
EL = ELECTRIC LOCK
ELEV = ELEVATOR
EOL = END OF LINE RESISTOR
EOLR = END OF LINE RELAY
EMO = EMERGENCY MACHINE OFF SWITCH
EPO = EMERGENCY POWER OFF
EP = EXPLOSION PROOF
ET = ELECTRIFIED TRIM
F = FLUSH MOUNTED
FA = FIRE ALARM
FACU = FIRE ALARM CONTROL UNIT
FARP = FIRE ALARM REMOTE PANEL
FBO = FURNISHED BY OTHERS
FCD = FIRE CLOSURE DEVICE
FFOP = FIREFIGHTERS OVERRIDE PANEL
HT = HEIGHT
HVAC = HEATING, VENTILATION, AIR CONDITIONAL
IAP = INTRUSION ACESS PANEL
IDC = INITIATING DEVICE CIRCUIT
LA = LOW AIR
MAX = MAXIMUM
MIN = MINIMUM
N/A = NOT APPLIANCE
N/C = NORMALLY CLOSED
N/O = NORMALLY OPEN
NAC = NOTIFICATION APPLIANCE CIRCUIT
NIC = NOT IN CONTRACT
NOC = NET WORK OPERATION
NTS = NOT TO SCALE
QTY = QUANTITY
PRNT = PRINTER
S = SURFACE MOUNTED
SMK = SMOKE
SPRV = SUPERVISORY
TC = TO CLOSED
TO = TO OPEN
TI = TENANT IMPROVEMENT
TRBL = TROUBLE
TYP = TYPICAL
UF = UNDER FLOOR
UND = UNDERGROUND
UON = UNLESS OTHERWISE NOTED
VT = VALVE TAMPER SWITCH
WF = WATER FLOW
WP = WEATHERPROOF

NOTE: NOT ALL SUBSCRIPTS AND ABBREVIATIONS MAYBE USED.

CONDUIT FILL RATIO

BASED ON 40% FILL				
CONDUIT SIZE		3/4"	1"	1 1/4"
INTERNAL DIAMETER		0.824	1.049	1.38
WIRE TYPE	AWG			
CABLE	18	13	17	22
	16	8	14	25
	14	6	10	18
	12	5	8	12

ADDRESS & LABEL CLARIFICATION



LEGEND

FIRE ALARM SYSTEM LEGEND/BOM

SYMBOL	QUANTITY	DESCRIPTION	MANUFACTURER	MODEL	CSFM
FACU OSP-031 UUT 60 (3-CAB7B) UUT 2 (3-CAB14B)	12	EST4 FIRE ALARM CONTROL PANEL	EDWARDS - UTC	EST4 VOICE PANEL	7170-1657:0508
	4	BACK BOX /W 7 LRM SPACE W/O DOOR	EDWARDS - UTC	3-CAB7B	7170-1657:0508
	4	RED DOOR ASSEMBLY FOR 3-CAB7	EDWARDS - UTC	3-CAB7DR	7170-1657:0508
	8	BACK BOX /W 14 LRM SPACE W/O DOOR	EDWARDS - UTC	3-CAB14B	7170-1657:0508
	8	RED DOOR ASSEMBLY FOR 3-CAB14	EDWARDS - UTC	3-CAB14DR	7170-1657:0508
	20	CHASSIS ASS'Y FOR 7 LRMS	EDWARDS - UTC	3-CHAS7	7170-1657:0508
	33	SIGNATURE DUAL DRIVER CONTROLLER (LRM)	EDWARDS - UTC	3-SDDC2	7170-1657:0508
	1	SIGNATURE SINGLE DRIVER CONTROLLER (LRM)	EDWARDS - UTC	3-SSDC2	7170-1657:0508
	9	DISPLAY MODULE,24 LED	EDWARDS - UTC	4-24L	7170-1657:0508
	2	CNTRL DISPLAY,24 LED,12 SWITCH	EDWARDS - UTC	4-24L12S	7170-1657:0508
	12	MAIN CPU	EDWARDS - UTC	4-CPU	7170-1657:0508
	1	DISPLAY,MAIN LCD MODULE	EDWARDS - UTC	4-LCDLE	7170-1657:0508
	24	TWISTED PAIR SFP NETWORK CONTROLLER	EDWARDS - UTC	4-NET-TP	7170-1657:0508
	1	NETWORK EXPANDER MODULE	EDWARDS - UTC	4-NET-AD	7170-1657:0508
	19	PRIMARY POWER SUPPLY 120V	EDWARDS - UTC	4-PPS/M	7170-1657:0508
	7	40 WATT ZONED AMPLIFIER, CLASS B, 25 OR 70VRMS	EDWARDS - UTC	3-ZA40B	7170-1657:0508
	1	PAGING MICROPHONE	EDWARDS - UTC	4-MIC	7170-1657:0508
	1	AUDIO IO AND TELEPHONE RISER SOURCE MODULE	EDWARDS - UTC	4-AUDTELS	7170-1657:0508
	145	BLANK FILLER	EDWARDS - UTC	4-FIL	7170-1657:0508
	12	120V SURGE PROTECTIVE DEVICE	SPACE AGE ELECTRONICS	E120V-GT	N/A
BATT OSP-0031 UUT 18	9	BATTERY CABINET (RED) - SUPORTS UP TO 40AH BATTERIES	EDWARDS - UTC	BC-1R	-
	18	40 AH BATTERY	EDWARDS - UTC	PS-12400	-
BAT2 OSP-0031 UUT 4	3	BATTERY CABINET - SUPORTS UP TO 65AH BATTERIES	EDWARDS - UTC	3-RCC14R	7170-1657:0508
	3	BATTERY SHELF FOR RCC CABINET	EDWARDS - UTC	3-BATS	-
	3	SEISMIC BATTERY HOLD DOWN FOR RCC CABINET WITH 65AH BATTERIES	EDWARDS - UTC	3-RCCEQ65	7170-1657:0508
	2	50 AH BATTERY	EDWARDS - UTC	12V50A	-
	4	65 AH BATTERY	EDWARDS - UTC	12V65A	-
UPS OSP-0031 UUT 19	18	BOOSTER POWER SUPPLY, 10A	EDWARDS - UTC	BPS10A	7300-1657:0229
	36	7 AH BATTERY	EDWARDS - UTC	12V6A5	N/A
	18	120V SURGE PROTECTIVE DEVICE	SPACE AGE ELECTRONICS	E120V-GT	N/A
APS OSP-0031 UUT 17	15	AUXILIARY POWER SUPPLY, 10A	EDWARDS - UTC	APS10A	7300-1657:0229
	15	50 WATT INTELLIGENT AUDIO AMPLIFIER	EDWARDS - UTC	SIGA-AA50	7300-1657:0121
	4	30 WATT INTELLIGENT AUDIO AMPLIFIER	EDWARDS - UTC	SIGA-AA30	7300-1657:0121
	30	7 AH BATTERY	EDWARDS - UTC	12V6A5	N/A
	15	120V SURGE PROTECTIVE DEVICE	SPACE AGE ELECTRONICS	E120V-GT	N/A
FAX OSP-0031 UUT 62	1	EST4 LCD REMOTE ANNUNCIATOR	EDWARDS - UTC	4-2ANN	7170-1657:0508 / 7120-1657:0509
	1	ANNUNCIATOR BACKBOX	EDWARDS - UTC	4-2ANNMT	7120-1657:0509
	1	TWISTED PAIR SFP NETWORK CONTROLLER	EDWARDS - UTC	4-NET-TP	7170-1657:0508
DOC	1	DOCUMENT BOX	SPACE AGE ELECTRONICS	SSU00691	-
P	46	ADDRESSABLE MANUAL PULL STATION	EDWARDS - UTC	SIGA-270	7150-1657:0129
MTC2 OSP-0031 UUT 54 (UIO2R) UUT 61 (TABLE 6 (UIO6R)	22	MULTI-FUNCTION CABINET	EDWARDS - UTC	MFC-A	7300-1657:0121
	22	DUAL INPUT MODULE - UIO MOTHERBOARD MOUNT	EDWARDS - UTC	SIGA-MCT2	
	1	2 POSITION, RISER SELECTION UIO MODULE MOTHERBOARD	EDWARDS - UTC	SIGA-UIO2R	
	22	6 POSITION, RISER SELECTION UIO MODULE MOTHERBOARD	EDWARDS - UTC	SIGA-UIO6R	
	68	ADDRESSABLE SIGNAL MODULE	EDWARDS - UTC	SIGA-MCC1	7300-1657:0121
WKST	1	FIREWORK WORKSTATION	EDWARDS - UTC	FW-UL7W	7300-1657:0213
	1	19" MONITOR, 1680X1050	EDWARDS - UTC	FW-19LCDWTS	
	1	SERIAL COM PORTS FOR UL SYSTEMS, 4 PORT ADDER	EDWARDS - UTC	FW-SP4I	
	1	COMPUTER CABLE COVER KIT	EDWARDS - UTC	FW-UL6CC1	
	1	BRACKET - CHASSI / SIDE MOUNT	EDWARDS - UTC	4-BRKT-CS	
	1	FIREWALL MODULE	EDWARDS - UTC	4-FWAL1	
	1	SFP NETWORK MEDIA INTERFACE, 100BASE-TXRJ-45	EDWARDS - UTC	4-FWAL-CAT	
KS	20	RELEASING SERVICE SOLENOID DISCONNECT SWITCH	EDWARDS - UTC	RKEY	-
IM	58	ISOLATOR MODULE	EDWARDS - UTC	SIGA-IM2	7300-1657:0121
CC1S	45	ADDRESSABLE SYNCHRONIZATION MODULE	EDWARDS - UTC	SIGA-CC1S	7300-1657:0121
CC1	2	ADDRESSABLE SINGLE INPUT SIGNAL MODULE	EDWARDS - UTC	SIGA-CC1	7300-1657:0121
CT1	108	ADDRESSABLE SINGLE INPUT MODULE	EDWARDS - UTC	SIGA-CT1	7300-1657:0121
CT2	1098	ADDRESSABLE DUAL INPUT MODULE	EDWARDS - UTC	SIGA-CT2	7300-1657:0121
CR	317	ADDRESSABLE RELAY MODULE	EDWARDS - UTC	SIGA-CR	7300-1657:0121
CRH	1075	ADDRESSABLE RELAY MODULE (HIGH CURRENT)	EDWARDS - UTC	SIGA-CRH	7300-1657:0121
RL	8	SPDT RELAY /W LED & TRACK MTG HARDWARE	EDWARDS - UTC	MR101/T	7300-1004:0106
D S	114	ADDRESSABLE DUCT DETECTOR	EDWARDS - UTC	SIGA-DDOS	3240-1657:0528
	114	SUPERDUCT, AIR SAMPLE TUBE, 60 INCH	EDWARDS - UTC	SD-T60	
	257	ADDRESSABLE HEAT DETECTOR WITH 4-INCH MOUTING BASE C/W TRIM SKIRT	EDWARDS - UTC	SIGA-HRD W/ SIGA-SB4 BASE	7270-1657:0333 / 7300-1657:0120
S	2007	ADDRESSABLE SMOKE DETECTOR WITH STANDARD BASE	EDWARDS - UTC	SIGA-OSD W/ SIGA-SB BASE	7272-1657:0511 / 7300-1657:0120
S LF	31	ADDRESSABLE SMOKE DETECTOR WITH LOW FREQUENCY SOUNDER BASE	EDWARDS - UTC	SGA-OSD W/ SIGA-AB4G-LF BASE	7272-1657:0511 / 7300-1657:0322
S R	227	ADDRESSABLE SMOKE DETECTOR WITH RELAY BASE	EDWARDS - UTC	SIGA-OSD W/ SIGA-RB BASE	7272-1657:0511 / 7300-1657:0120
S OS	3	CONVENTIONAL SMOKE DETECTOR WITH STANDARD BASE	EDWARDS - UTC	EC2-OS W/EC2-SB BASE	7272-1657:0524 / 7300-1657:0120
SV C	704	SPEAKER/STROBE, CEILING, RED, FIRE	EDWARDS - UTC	GCSVRF	7320-1657:0516
SV	130	SPEAKER/STROBE, WALL, RED, FIRE	EDWARDS - UTC	G4SVRF	7320-1657:0516
SV WP	6	OUTDOOR SPEAKER/STROBE, WALL, RED, FIRE	EDWARDS - UTC	WG4IRF-SVMHC	7320-1657:0289
S	14	SPEAKER, WALL, RED, FIRE	EDWARDS - UTC	G4SRF	7320-1657:0516
S C	4	SPEAKER, CEILING, RED, FIRE	EDWARDS - UTC	GCSRF	7320-1657:0516
	505	STROBE, CEILING, RED, FIRE	EDWARDS - UTC	GCVRF	7125-1657:0510
	23	STROBE, WALL, RED, FIRE	EDWARDS - UTC	G4VRF	7125-1657:0505
H	31	STROBE, CEILING, WHITE, HIGH CANDELA, FIRE	EDWARDS - UTC	GCF-VMH	7125-1657:0219
WP	29	OUTDOOR STROBE, 15/30CD, RED, FIRE	EDWARDS - UTC	WGVRF	7125-1657:0521
B	2	BELL, 10" 24VDC, RED	EDWARDS - UTC	439D-10AWC	7136-1657:0150
SS	1	SURGE PROTECTOR	EDWARDS - UTC	DTK-2MHLP24BWB	4945-2105:0100
FSD	1074	FIRE SMOKE DAMPER	F.B.O.	F.B.O.	N/A
JB	28	JUNCTION BOX	-	-	-
	-	CLASS A RETURN SYMBOL (FOR REFERENCE ONLY)	-	-	-

WIRE LEGEND

WIRE SYMBOL	WIRE DESCRIPTION	USED FOR
S	2-CONDUCTOR, #16 AWG SOLID, TWISTED, FPL	ADDRESSABLE INITIATING DEVICES (DETECTORS, PULL STATIONS)
V	2-CONDUCTOR, #12 AWG STRANDED, THHN	NOTIFICATION APPLIANCE (STROBES)
P	2-CONDUCTOR, #12 AWG STRANDED, THHN	24 VOLT CONTINUOUS POWER (SOUNDER BASES)
A	2-CONDUCTOR, #16 AWG SHIELDED SOLID, TRISTED	NOTIFICATION APPLIANCE (SPEAKERS)
N	2-CONDUCTOR, #18 AWG SOLID, TWISTED, FPL	FIRE ALARM CONTROL PANEL (NETWORK)
Z	2-CONDUCTOR, #16 AWG SOLID, TWISTED, FPL	CONVENTIONAL INITIATING DEVICES (DETECTORS)

FIRE ALARM PATHWAY DESIGNATIONS

CIRCUIT & PATHWAYS (NFPA 72-2022 CHAPTER 12)	PATHWAY CLASS DESIGNATION	PATHWAY SURVIVABILITY LEVEL
SIGNALING LINE CIRCUITS (SLC)	CLASS B	LEVEL 1
INITIATING DEVICE CIRCUITS (IDC)	CLASS B	LEVEL 1
NOTIFICATION ALARM CIRCUIT (NAC)	CLASS B	LEVEL 1
DEVICE POWER CIRCUITS (FAIL-SAFE)	CLASS B	LEVEL 1
PANEL NETWORK CIRCUIT (NET)	CLASS A	LEVEL 2

NOTES:
* A REDUNDANT PATHWAY BACK TO THE CONTROL PANEL IS REQUIRED. PROVIDE A MINIMUM SEPARATION OF 12 IN. WHERE CABLE IS INSTALLED VERTICALLY AND 48 IN. WHERE CABLE IS INSTALLED HORIZONTALLY PER NFPA 72, § 12.3.8, AND § A12.3.8.

APPLICABLE CODES AND REGULATIONS

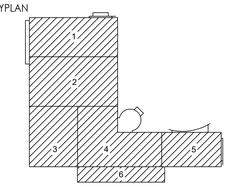
BUILDING CODE: TITLE 24 PART 2-2022 EDITION OF THE CALIFORNIA BUILDING CODE (CBC) 2021 INTERNATIONAL BUILDING CODE (IBC) WITH CALIFORNIA AMENDMENTS)
ELECTRICAL CODE: TITLE 24 PART 3 -2022 EDITION OF THE CALIFORNIA ELECTRICAL CODE (CEC) 2020 NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) WITH CALIFORNIA AMENDMENTS
MECHANICAL CODE: TITLE 24 PART 4-2022 EDITION OF THE CALIFORNIA MECHANICAL CODE (CMC) 2021 EDITION OF THE UNIFORM MECHANICAL CODE OF THE INTERNATIONAL ASSOCIATION OF MECHANICAL AND PLUMBING OFFICALS (IAPMO) WITH CALIFORNIA AMENDMENTS
REFERENCED STANDARD CODE: TITLE 24 PART 12-2022 EDITION OF THE CALIFORNIA REFERENCED STANDARDS CODE
FIRE CODE: TITLE 24 PART 9-2022 EDITION OF THE CALIFORNIA FIRE CODE (CFC) THE 2021 EDITION OF THE INTERNATIONAL FIRE CODE (IFC) WITH CALIFORNIA AMENDMENTS
REFERCED NFPA STANDARDS: AS PER CFC TITLE 24 PART 9-2022 EDITION OF THE CALIFORNIA FIRE CODE (CFC) NFPA 72, 2022 EDITION NATIONAL FIRE ALARM CODE

VICINITY MAP

Consultant

Architect / Engineer of Record

KEYPLAN



Revision

	By	Appd	
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued

	By	Appd	
	Dwn.	Dsgn.	Chkd.

YYYY.MM.DD

Agency Approval

OSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

Project

Title

TITLE SHEET AND LEGEND MATRIX

Building ID:
Floor Lev:
Scale N.T.S
Drwn By LW
Chckd By VL
KP Proj. No.
Stantec No.

Sheet

H-FA001

5/27/2025 8:51:39 AM

ORIGINAL SHEET - ARCH E1

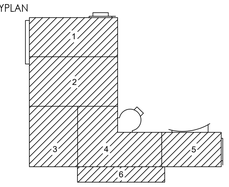
SHEET NUMBER	DRAWING DESCRIPTION	OSHPD INITIAL SUBMITTAL				
H-FA001	TITLE SHEET AND LEGENDS MATRIX	x				
H-FA002	DRAWING INDEX	x				
H-FA003	CONTRACTOR NOTES AND PROJECT NOTES	x				
H-FA004	FIRE ALARM SITE PLAN	x				
H-FA011	FIRE ALARM MATRIX	x				
H-FA012	SMOKE CONTROL MATRIX - STAIR PRESSURIZATION 1	x				
H-FA013	SMOKE CONTROL MATRIX - STAIR PRESSURIZATION 2	x				
H-FA014	FIRE ALARM RISER DIAGRAM	x				
H-FA015	FIRE ALARM RISER DIAGRAM	x				
H-FA016	FIRE ALARM RISER DIAGRAM	x				
H-FA017	FIRE ALARM RISER DIAGRAM	x				
H-FA018	FIRE ALARM RISER DIAGRAM	x				
H-FA019	FIRE ALARM RISER DIAGRAM	x				
H-FA020	FIRE ALARM RISER DIAGRAM	x				
H-FA021	FIRE ALARM RISER DIAGRAM	x				
H-FA022	FIRE ALARM RISER DIAGRAM	x				
H-FA023	FIRE ALARM RISER DIAGRAM	x				
H-FA024	FIRE ALARM RISER DIAGRAM	x				
H-FA025	FIRE ALARM RISER DIAGRAM	x				
H-FA026	FIRE ALARM RISER DIAGRAM	x				
H-FA027	FIRE ALARM RISER DIAGRAM	x				
H-FA028	FIRE ALARM RISER DIAGRAM	x				
H-FA029	FIRE ALARM RISER DIAGRAM	x				
H-FA030	FIRE ALARM RISER DIAGRAM	x				
H-FA031	FIRE ALARM RISER DIAGRAM	x				
H-FA032	FIRE ALARM RISER DIAGRAM	x				
H-FA033	FIRE ALARM RISER DIAGRAM	x				
H-FA034	FIRE ALARM RISER DIAGRAM	x				
H-FA035	FIRE ALARM RISER DIAGRAM	x				
H-FA036	FIRE ALARM RISER DIAGRAM	x				
H-FA037	FIRE ALARM RISER DIAGRAM	x				
H-FA038	FIRE ALARM RISER DIAGRAM	x				
H-FA039	FIRE ALARM RISER DIAGRAM	x				
H-FA040	FIRE ALARM RISER DIAGRAM	x				
H-FA041	FIRE ALARM RISER DIAGRAM	x				
H-FA042	FIRE ALARM RISER DIAGRAM	x				
H-FA043	FIRE ALARM RISER DIAGRAM	x				
H-FA044	FIRE ALARM RISER DIAGRAM	x				
H-FA045	FIRE ALARM RISER DIAGRAM	x				
H-FA046	FIRE ALARM RISER DIAGRAM	x				
H-FA047	FACU WIRING DETAIL #1	x				
H-FA048	FACU WIRING DETAIL #2	x				
H-FA049	FACU WIRING DETAIL #3	x				
H-FA050	FACU WIRING DETAIL #4	x				
H-FA051	FACU WIRING DETAIL #5	x				
H-FA052	FACU WIRING DETAIL #6 BATTERY BOXES & ANNUNCIATOR DETAILS	x				
H-FA053	TYPICAL BPS & APS WIRING DETAILS	x				
H-FA054	FA PANEL ELEVATION DETAILS	x				
H-FA055	FA SMOKE CONTROL PANEL	x				
H-FA056	DETAILS SHEET #1	x				
H-FA057	DETAILS SHEET #2	x				
H-FA058	DETAILS SHEET #3	x				
H-FA059	DETAILS SHEET #4	x				
H-FA060	DETAILS SHEET #5	x				
H-FA061	CALCULATIONS SHEET #1					
H-FA062	CALCULATIONS SHEET #2	x				
H-FA063	CALCULATIONS SHEET #3	x				
H-FA064	CALCULATIONS SHEET #4	x				
H-FA065	CALCULATIONS SHEET #5	x				
H-FA066	CALCULATIONS SHEET #6	x				
H-FA067	CALCULATIONS SHEET #7	x				
H-FA068	CALCULATIONS SHEET #8	x				
H-FA069	CALCULATIONS SHEET #9	x				
H-FA070	AHU ZONING PLAN #1	x				
H-FA071	AHU ZONING PLAN #2	x				
H-FA072	AHU ZONING PLAN #3	x				
H-FA073	AHU ZONING PLAN #4	x				
H-FA074	AHU ZONING PLAN #5	x				
H-FA075	AHU ZONING PLAN #6	x				
H-FA076	AHU ZONING PLAN #7	x				
H-FA100.A	LOWER LEVEL ISOLATORS LAYOUT	x				
H-FA100.B	LOWER LEVEL GENERAL DEVICESS LAYOUT	x				
H-FA200.2.B	PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LOWER LEVEL - AREA 2	x				
H-FA200.3.B	PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LOWER LEVEL - AREA 3	x				
H-FA200.4.B	PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LOWER LEVEL - AREA 4	x				
H-FA200.5.B	PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LOWER LEVEL - AREA 5	x				
H-FA100.C	LOWER LEVEL FSDs DEVICES LAYOUT	x				
H-FA200.2.C	PARTIAL FIRE ALARM FSDs DEVICES PLAN - LOWER LEVEL - AREA 2	x				
H-FA200.3.C	PARTIAL FIRE ALARM FSDs DEVICES PLAN - LOWER LEVEL - AREA 3	x				
H-FA200.4.C	PARTIAL FIRE ALARM FSDs DEVICES PLAN - LOWER LEVEL - AREA 4	x				
H-FA200.5.C	PARTIAL FIRE ALARM FSDs DEVICES PLAN - LOWER LEVEL - AREA 5	x				

SHEET NUMBER	DRAWING DESCRIPTION	OSHPD INITIAL SUBMITTAL				
H-FA101.A	LEVEL 1 ISOLATORS LAYOUT	x				
H-FA101.B	LEVEL 1 GENERAL DEVICES LAYOUT	x				
H-FA201.1.B	PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL1 - AREA 1	x				
H-FA201.2.B	PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL1 - AREA 2	x				
H-FA201.3.B	PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 1 - AREA 3	x				
H-FA201.3.B.1	FIRE COMMAND CENTER - EQELC - 1377 - DETAIL	x				
H-FA201.4.B	PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 1 - AREA 4	x				
H-FA201.5.B	PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 1 - AREA 5	x				
H-FA101.C	LEVEL 1 FSDs DEVICES LAYOUT	x				
H-FA201.1.C	PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL1 - AREA 1	x				
H-FA201.2.C	PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL1 - AREA 2	x				
H-FA201.3.C	PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 1 - AREA 3	x				
H-FA201.4.C	PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 1 - AREA 4	x				
H-FA201.5.C	PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 1 - AREA 5	x				
H-FA102.A	LEVEL 2 ISOLATORS LAYOUT					
H-FA102.B	LEVEL 2 GENERAL DEVICES LAYOUT	x				
H-FA202.1.B	PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 2 - AREA 1	x				
H-FA202.2.B	PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 2 - AREA 2	x				
H-FA202.3.B	PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 2 - AREA 3	x				
H-FA202.4.B	PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 2 - AREA 4	x				
H-FA202.5.B	PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 2 - AREA 5	x				
H-FA202.5.B.1	TELECOMMUNICATIONS SERVICE - EQRTR2.1 - DETAIL	x				
H-FA102.C	LEVEL 2 FSDs DEVICES LAYOUT	x				
H-FA202.1.C	PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 2 - AREA 1	x				
H-FA202.2.C	PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 2 - AREA 2	x				
H-FA202.3.C	PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 2 - AREA 3	x				
H-FA202.4.C	PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 2 - AREA 4	x				
H-FA202.5.C	PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 2 - AREA 5	x				
H-FA103.A	LEVEL 3 ISOLATORS LAYOUT	x				
H-FA103.B	LEVEL 3 GENERAL DEVICES LAYOUT	x				
H-FA203.1.B	PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 3 - AREA 1	x				
H-FA203.2.B	PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 3 - AREA 2	x				
H-FA203.3.B	PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 3 - AREA 3	x				
H-FA203.4.B	PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 3 - AREA 4	x				
H-FA203.5.B	PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 3 - AREA 5	x				
H-FA203.5.B.1	TELECOMMUNICATIONS SERVICE - EQRTR3.1 - DETAIL	x				
H-FA103.C	LEVEL 3 FSDs DEVICES LAYOUT	x				
H-FA203.1.C	PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 3 - AREA 1	x				
H-FA203.2.C	PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 3 - AREA 2	x				
H-FA203.3.C	PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 3 - AREA 3	x				
H-FA203.4.C	PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 3 - AREA 4	x				
H-FA203.5.C	PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 3 - AREA 5	x				
H-FA104.A	LEVEL 4 ISOLATORS LAYOUT	x				
H-FA104.B	LEVEL 4 GENERAL DEVICES LAYOUT	x				
H-FA204.1.B	PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 4 - AREA 1	x				
H-FA204.2.B	PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 4 - AREA 2	x				
H-FA204.3.B	PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 4 - AREA 3	x				
H-FA204.4.B	PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 4 - AREA 4	x				
H-FA204.5.B	PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 4 - AREA 5	x				
H-FA104.C	LEVEL 4 FSDs DEVICES LAYOUT	x				
H-FA204.1.C	PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 4 - AREA 1	x				
H-FA204.2.C	PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 4 - AREA 2	x				
H-FA204.3.C	PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 4 - AREA 3	x				
H-FA204.4.C	PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 4 - AREA 4	x				
H-FA204.5.C	PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 4 - AREA 5	x				
H-FA105.A	LEVEL 5 ISOLATORS LAYOUT	x				
H-FA105.B	LEVEL 5 GENERAL DEVICES LAYOUT	x				
H-FA205.1.B	PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 5 - AREA 1	x				
H-FA205.2.B	PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 5 - AREA 2	x				
H-FA205.3.B	PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 5 - AREA 3	x				
H-FA205.4.B	PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 5 - AREA 4	x				
H-FA205.5.B	PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 5 - AREA 5	x				
H-FA105.C	LEVEL 5 FSDs DEVICES LAYOUT	x				
H-FA205.1.C	PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 5 - AREA 1	x				
H-FA205.2.C	PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 5 - AREA 2	x				
H-FA205.3.C	PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 5 - AREA 3	x				
H-FA205.4.C	PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 5 - AREA 4	x				
H-FA205.5.C	PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 5 - AREA 5	x				
H-FA106.A	LEVEL 6 GENERAL DEVICES LAYOUT	x				
H-FA206.1.A	PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 6 - AREA 1	x				
H-FA206.2.A	PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 6 - AREA 2	x				
H-FA206.3.A	PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 6 - AREA 3	x				
H-FA206.4.A	PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 6 - AREA 4	x				
H-FA206.5.A	PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 6 - AREA 5	x				
H-FA106.B	LEVEL 6 FSDs DEVICES LAYOUT	x				
H-FA206.1.B	PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 6 - AREA 1	x				
H-FA206.2.B	PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 6 - AREA 2	x				
H-FA206.3.B	PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 6 - AREA 3	x				
H-FA206.4.B	PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 6 - AREA 4	x				
H-FA206.5.B	PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 6 - AREA 5	x				
H-FA107	ROOF DEVICES LAYOUT	x				
H-FA207.1	PARTIAL FIRE ALARM DEVICES PLAN - ROOF - AREA 1	x				
H-FA207.2	PARTIAL FIRE ALARM DEVICES PLAN - ROOF - AREA 2	x				
H-FA207.4	PARTIAL FIRE ALARM DEVICES PLAN - ROOF - AREA 4	x				
H-FA207.5	PARTIAL FIRE ALARM DEVICES PLAN - ROOF - AREA 5	x				
	Issue Date	2025.03.04				

Consultant

Architect / Engineer of Record

KEYPLAN



Revision

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Facility

Project

Title

DRAWING INDEX

Building ID: | Floor Lev:

Scale NTS
Dwn By LW
Chckd By VL

KP Proj. No.
Stantec No.

Sheet

H-FA002

ORIGINAL SHEET - ARCH E1

FIRE ALARM SYSTEM NOTES

1. THIS SYSTEM SHALL COMPLY WITH THE CALIFORNIA BUILDING CODE 2022 EDITION, CHAPTER 35, CALIFORNIA FIRE CODE 2022 EDITION, SECTION 907, CALIFORNIA ELECTRIC CODE 2022 EDITION, ARTICLE 760, AND NFPA 72 2022 EDITION, AS AMENDED IN CHAPTER 36 OF THE CALIFORNIA BUILDING CODE.

2. WHENEVER POSSIBLE DEVICE AND APPLIANCE SYMBOLS USED SHALL BE PER CFC SECTION 907.1.2, 2022 EDITION AND CHAPTER 8 OF NFPA 170, 2020 EDITION. ANY SYMBOL USED THAT IS NOT FROM NFPA 170 SHALL BE CLEARLY NOTED AND DEFINED.

3. ALL DEVICES AND EQUIPMENT BEING INSTALLED HAVE BEEN APPROVED BY THE CALIFORNIA STATE FIRE MARSHAL CSFM AS PER CFC SECTION 907.2.3. 2022 EDITION AND PURSUANT TO SECTION 13144.1 OF THE CALIFORNIA HEALTH AND SAFETY CODE. ANY DEVICES OR EQUIPMENT NOT HAVING CURRENT CSFM LISTING NUMBER SHALL BE NOTED AS SUCH.

4. UPON ACTIVATION OF AN INITIATING DEVICE THE RESPECTIVE DEVICE SHALL CAUSE AN INDICATION OF ALARM, SUPERVISORY OR TROUBLE TO BE RECEIVED BY THE FIRE ALARM CONTROL UNIT.

5. DURING AN ALARM CONDITION, THE FACU SHALL CAUSE ALL NOTIFICATION APPLIANCES TO OPERATE. THE RESPECTIVE ZONE/POINT ADDRESS SHALL BE INDICATED AT THE FACU. AN APPROPRIATE SIGNAL SHALL BE TRANSMITTED TO THE RECEIVING STATION FOR DISPOSITION IN ACCORDANCE WITH NFPA 72 CHAPTER 26, 2022 EDITION.

6. A FIRE SPRINKLER MONITORING SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF THE CALIFONIA FIRE CODE, 2022 EDITION, ARTICLE 903.4.

7. INITIATING DEVICES, SUPERVISORY DEVICES AND JUNCTION BOXES LOCATED OUTSIDE THE BUILDING SHALL MEET THE REQUIREMENTS OF 23.8.5.11.1, NFPA 72, 2022 THROUGH THE USE OF TAMPER RESISTANT FASTENERS.

8. AN AUTOMATIC DETECTOR SHALL BE INSTALLED PER THE REQUIREMENTS OF NFPA 72, SECTION 10.4.5, 2022 EDITION AND CFC, SECTION 907.4.1, 2022 EDITION.

9. MANUAL FIRE ALARM BOXES SHALL BE MOUNTED AT 48 INCHES ABOVE THE FINISHED FLOOR TO THE OPERABLE PART OF THE DEVICE. THE MANUAL FIRE ALARM BOX SHALL BE UNOBSTRUCTED, READILY VISIBLE WHEN THE DOOR IS IN EITHER THE FULLY OPEN OR CLOSED POSITION, AND INSTALLED PER THE REQUIREMENTS OF NFPA 72, 2022 EDITION, SECTION 17.15.

10. UPON ACTIVATION OF A MANUAL FIRE ALARM BOX, THE RESPECTIVE DEVICE SHALL CAUSE AN INDICATION OF ALARM TO BE RECEIVED BY THE ALARM CONTROL UNIT, THE CONTROL UNIT SHALL CAUSE ALL NOTIFICATION APPLIANCES TO ACTIVATE, THE RESPECTIVE ZONE SHALL BE IDENTIFIED AT THE KEYPAD AND/OR FACU.

11. UPON LEAK OF FLOW OF WATER IN EXCESS OF TEN GALLONS PER MINUTE, THE FLOW SWITCH SHALL CLOSE, WITH THE RESPECTIVE DEVICE CAUSING AN INDICATION OF ALARM TO BE RECEIVED BY THE ALARM CONTROL UNIT. THE RESPECTIVE ZONE OR POINT ADDRESS SHALL BE INDICATED AT THE FACU, AND AN APPROPRIATE SIGNAL SHALL BE TRANSMITTED TO THE RECEIVING STATION FOR DISPOSITION IN ACCORDANCE WITH NFPA 72, 2022 EDITION.

12. UPON MOVEMENT OF A FIRE PROTECTION SYSTEM CONTROL VALVE FROM AN OPEN POSITION, AND DURING THE FIRST TWO REVOLUTIONS, A SUPERVISORY SIGNAL SHALL BE RECEIVED BY THE FIRE ALARM CONTROL UNIT AND AN APPROPRIATE "VALVE TAMPER SIGNAL SHALL BE TRANSMITTED TO THE RECEIVING STATION FOR DISPOSITION IN ACCORDANCE WITH NFPA 72, 2022 EDITION.

13. INSPECTOR'S TEST VALVES, SUPERVISORY VALVES, DRAIN VALVES AND OTHER DEVICES THAT WHEN ACTIVATED MAY CAUSE AN ALARM SIGNAL TO BE GENERATED SHALL BE TAGGED WITH A SIGN. THE SIGN OR TAG SHALL READ "WARNING FIRE DEPARTMENT WILL RESPOND IF THIS SPRINKLER SYSTEM IS WORKED ON BEFORE CALLING... THE NUMBER OF THE SUPERVISING CENTRAL STATION SHALL BE LISTED.

14. THE OCCURRENCE OF ANY TROUBLE OF ANY NATURE SUCH AS A CIRCUIT WIRING BREAK OR GROUND FAULT OCCURRING IN THE DEVICES OR WIRING ASSOCIATED WITH THE PROTECTIVE SIGNALING SYSTEM SHALL CAUSE A "DISTINCTIVE" SIGNAL TO BE RECEIVED BY THE FIRE ALARM CONTROL UNIT, THE TROUBLE SIGNAL SHALL BE LOCATED WHERE LIKELY TO BE HEARD BY A RESPONSIBLE PARTY, PER THE REQUIREMENTS OF NFPA 72, 2022 EDITION, SECTION 10.15.5.

15. THE SYSTEM SHALL BE EQUIPPED WITH A VISUAL DISPLAY AT THE ANNUNCIATOR FOR THE PURPOSE OF LOCAL ANNUNCIATION.

16. WHERE PRACTICAL, THE NOTIFICATION APPLIANCES FOR INDOOR USE SHALL BE INSTALLED FLUSH ON THE WALLS OR CEILINGS. BACK-BOXES SHALL BE USED. WALL MOUNTED AUDIBLE APPLIANCES SHALL HAVE THEIR TOPS AT HEIGHTS ABOVE THE FINISHED FLOORS OF NOT LESS THAN 90° AND BELOW THE FINISHED CEILINGS NOT LESS THAN 6. AUDIBLE SIGNALS SHALL MEET THE REQUIREMENTS OF NFPA 72, 2022 EDITION SECTIONS 18.4.2.1 AND 18.4.2.4.

17. WALL MOUNTED VISUAL APPLIANCES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80° AND NO GREATER THAN 96" ABOVE THE FINISHED FLOOR, PER NFPA 72, 2022 EDITION SECTION 18.5.5.1.

18. CEILING MOUNTED VISUAL APPLIANCES SHALL BE INSTALLED PER NFPA 72, 2022 EDITION, SECTION 18.5.5.4.2 AND TABLE 18.5.5.4.1(B).

19. VISUAL APPLIANCE SPACING IN ROOMS AND CORRIDORS SHALL MEET THE REQUIREMENTS OF NFPA 72, 2022 EDITION SECTION 18.5.5.7

20. ALL EXPOSED WIRING SHALL BE PROTECTED FROM PHYSICAL DAMAGE AND SHALL BE INSTALLED WITHIN APPROPRIATE RACEWAY OR CONDUIT WHEN WITHIN 7 FEET OF THE FLOOR PER CEC, 2022 EDITION, SECTION 780.53(A)(2).

21. THE SYSTEM SHALL COMMUNICATE WITH THE SUPERVISING CENTRAL STATION VIA POTS AS A PRIMARY AND SECONDARY WIRELESS ALARM COMMUNICATOR (GSM CELLULAR).

22. PRIMARY POWER SUPPLY SHALL BE PROVIDED BY A DEDICATED BRANCH CIRCUIT RATED AT NO LESS THAN 20 AMPS AND PROVIDING 120 VAC NOMINAL TO THE FIRE ALARM CONTROL UNIT. CIRCUITS AND CONNECTIONS SHALL BE MECHANICALLY PROTECTED, SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL, SHALL HAVE A RED MARKING, AND SHALL BE IDENTIFIED AS 'FIRE ALARM CIRCUIT, PER NFPA 72 2022 EDITION, SECTION 10.6.5.2.

23. SECONDARY POWER SUPPLY TO BE PROVIDED BY INTEGRAL BATTERIES SIZED AS INDICATED IN THE BATTERY CALCULATION. A CORRECTION FACTOR OF 1.25 HAS BEEN INCLUDED IN THE BATTERY CALCULATION(S) PER NFPA 72 2022 EDITION, SECTION 10.6.7.2.14

24. THE OWNER OF THE FACILITY SHALL BE RESPONSIBLE FOR MAINTAINING REQUIRED UTILITIES SO AS TO PROVIDE FOR THE CONTINUOUS OPERATION OF THE PROTECTION SYSTEM. THIS SHALL INCLUDE DEDICATED PRIMARY POWER SUPPLY BY MEANS OF DEDICATED BRANCH CIRCUIT, WITH SUITABLE LOCKOUT, AND REQUIRED TELEPHONE LINES.

25. THE PREPARER OF THESE PLANS SHALL NOT BE RESPONSIBLE FOR OR LIABLE FOR ANY UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

26. THIS SYSTEM REQUIRED TO BE CERTIFIED PER THE REQUIREMENTS OF NFPA 72, 2022 EDITION, SECTION 28.3 THEN UPON COMPLETION OF THE INSTALLATION, THIS SYSTEM SHALL BE ISSUED AN UNDERWRITERS LABORATORY CERTIFICATE FOR PROTECTIVE SIGNALING SERVICES CENTRAL STATION (UUFX) PER PARAGRAPH 1.04 V.4 OF SECTION 01 11.00.

27. THE DEVICE AND APPLIANCE LOCATION SHOWN ON THESE DRAWINGS ARE APPROXIMATE LOCATIONS MAY NEED TO BE ADJUSTED SLIGHTLY DURING INSTALLATION TO ACCOMMODATE BUILDING CONSTRUCTION FEATURES. CAREFUL ATTENTION SHALL BE TAKEN TO ENSURE MOVEMENT OF DEVICES AND APPLIANCES WILL NOT CREATE CODE DEFICIENCIES AND OR VIOLATIONS. ACTUAL INSTALLED DEVICE LOCATIONS SHALL BE NOTED AND SHOWN ON AS- BUILT DRAWINGS

28. PATHWAY CLASS DESIGNATIONS (WIRING STYLE) PER NFPA 72, 2022 EDITION: NOTIFICATION APPLIANCES CIRCUIT (NAC) = CLASS B SIGNALING LINE CIRCUIT (SLC) = CLASS B.

29. A 100% PRE-TEST REPORT IS REQUIRED IN ACCORDANCE WITH FIRE DEPARTMENT FIRE ALARM STANDARD.

30. ROUGH WIRING INSPECTIONS ARE REQUIRED PRIOR TO COVERING UP ANY WALLS AND BEFORE FILLING WALL CAVITIES WITH INSULATION MATERIALS.

31. FOR WALL PENETRATIONS REFERENCE H-G240, DETAIL 1 (XHEZ.W-L-1054). FOR FLOOR PENETRATIONS (OR CONCRETE BLOCK WALL) REFERENCE H-G254, DETAIL 2 (XHEZ.C-AJ-1380). FOR FLOOR PENETRATION ONLY REFERENCE H-G254, DETAIL 1 (XHEZ.F-A-1105).

32. FOR MOUNTING DETAILS REFERENCE STRUCTRUAL DRAWINGS (SBD8.20).

33. ALL FIRE ALARM CONDUCTORS MUST BE INSTALLED WITHIN A SUITABLE CONDUIT SYSTEM.

CONTRACTOR RESPONSIBILITY

1. CONTRACTOR(S) TO VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE BEFORE COMMENCING WORK REPORT ANY DISCREPANCIES TO THE POINT 1 PROJECT MANAGER PRIOR TO CONSTRUCTION.

2. IT IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR TO ENSURE THAT ALL FIELD INSTALLATION PERSONNEL HAVE ACCESS TO A COMPLETE AND CURRENT SET OF APPROVED CONSTRUCTION.

3. ANY COSTS INCURRED FOR FIELD CORRECTIONS AND OR REDESIGN CAUSED AS A RESULT OF THE INSTALLING CONTRACTOR NOT ADHERING TO THE CONSTRUCTION DRAWINGS SHALL BE BORNE SOLELY BY THE INSTALLING CONTRACTOR.

4. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALE ON THE DRAWINGS.

5. ALL MATERIALS AND WORK SHALL CONFORM TO THE GOVERNING BUILDING CODES, REGULATIONS, ORDINANCES, AND AGENCIES.

6. ALL WORK SHALL CONFORM THE REQUIREMENTS OF OSHA AND CAL-OSHA.

7. THE ENTIRE WORK PROVIDED FOR HEREIN IS TO BE CONSTRUCTED AND FINISHED IN EVERY PART IN A GOOD AND SUBSTANTIAL MANNER AND IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. ANY WORK REQUIRED BY LAW, BUT WHICH MAY NOT BE SPECIFICALLY MENTIONED HEREIN. SHALL BE DONE BY THE CONTRACTOR(S). ANY SUCH WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT ADOPTED EDITIONS OF CALIFORNIA CODE OF REGULATIONS TITLE 24, NFPA70, NFPA 72, NFPA 2001, AND AMERICANS WITH DISABILITIES ACT (ADA) AS REQUIRED BY THE GOVERNING AGENCIES. REFER TO COVER PAGE FOR A LIST OF APPLICABLE CODES AND REGULATIONS INCLUDING CURRENT CODE CYCLE DATES.

8. THE FIRE ALARM AND LIFE SAFETY SYSTEM SHALL CONFORM TO ARTICLE 3-780 OF PART 3 AND TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS.

9. ALARM DEVICE CABLE AND WIRE SHALL BE RECOMMENDED BY THE ALARM EQUIPMENT MANUFACTURER AND SHALL MEET THE NATIONAL, STATE & LOCAL ELECTRICAL CODES. ANY DEVIATION FROM THE SPECIFIED CABLE OR WIRE TYPES SHALL BE APPROVED BY POINT 1 IN WIRING, PRIOR TO INSTALLATION.

10. ALL FIRE ALARM AND LIFE SAFETY EQUIPMENT SHOWN ON THE DRAWINGS ARE NEW UNLESS INDICATED OTHERWISE.

11. THE CONTRACTOR(S) SHALL MAINTAIN A COMPLETE SET OF DRAWINGS AT THE JOB SITE FOR USE IN MAKING AS-BUILT DRAWINGS. ANY REVISIONS SHALL BE NOTED THEREON AND SUBMITTED TO THE POINT 1 PROJECT MANAGER AT THE COMPLETION OF THE WORK.

12. THE INSTALLING CONTRACTOR WILL SUPPORT AND ASSIST IN ALL PRE TESTING AND FINAL TESTING OF THE FINAL EQUIPMENT.

13.

HCAI PROJECT NOTES

1. THE FIRE ALARM SYSTEM SHALL CONFORM TO CALIFORNIA ELECTRICAL CODE ARTICLE 760 AND NFPA 72 2022 EDITION WITH CALIFORNIA AMENDMENTS.

2. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST SHALL BE MADE IN THE PRESENCE OF THE FIRE LIFE SAFETY OFFICER.

3. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS & SPECIFICATIONS, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY THE FIRE LIFE SAFETY OFFICER.

4. A MINIMUM OF 48 HOURS NOTICE SHALL BE REQUIRED FOR ANY INSPECTING AND/OR TESTING.

5. ALL DEVICES OF THE FIRE ALARM SYSTEM SHALL BE APPROVED AND LISTED BY THE CALIFORNIA STATE FIRE MARSHAL.

6. A STAMPED SET OF APPROVED FIRE ALARM PLANS SHALL BE ON THE JOBSITE AND USED FOR INSTALLATION, ANY DEVIATION FROM APPROVED PLANS, INCLUDING THE SUBSTITUTION OF DEVICES, SHALL BE APPROVED BY THE FIRE LIFE SAFETY OFFICER.

7. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OF RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN PROFESSIONAL OF RECORD, FIRE LIFE SAFETY OFFICER, AND THE INSPECTOR OF RECORD.

8. THE INSPECTION, TESTING AND MAINTENANCE OF THIS SYSTEM, INCLUDING INITIATING DEVICES, NOTIFICATION APPLIANCES AND INTERFACE DEVICES SHALL COMPLY WITH THE REQUIREMENTS OF NFPA 72 CHAPTER 14 AND MANUFACTURES PUBLISHED INSTRUCTIONS.

9. BEFORE PROCEEDING WITH ANY TESTING, ALL PERSONS AND FACILITIES RECEIVING ALARM, SUPERVISORY, OR TROUBLE SIGNALS AND ALL BUILDING OCCUPANTS SHALL BE NOTIFIED OF THE TESTING TO PREVENT UNNECESSARY RESPONSES.

10. THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE AND SERVICE PERSONNEL SHALL COORDINATE SYSTEM TESTING TO PREVENT INTERRUPTION OF CRITICAL BUILDING SYSTEMS OR EQUIPMENT.

11. DURING THE TESTING AND MAINTENANCE OF THIS SYSTEM AN ALTERNATIVE MEANS OF COMMUNICATION SHALL BE PROVIDED TO ALERT THE OCCUPANTS OF AN ACTUAL FIRE ALARM. THIS MEANS OF COMMUNICATION SHALL INCLUDE BUT NOT BE LIMITED TO FACILITY INTERCOM, BULLHORNS, AND INDIVIDUALS RESPONSIBLE FOR BUILDING SAFETY. UPON CONCLUSION OF THE SYSTEM TESTING, ALL SYSTEM FUNCTIONS THAT MAY HAVE BEEN BYPASSED TO FACILITATE TESTING SHALL BE REACTIVATED.

12. PROVIDE A COMPLETED NFPA 72 RECORD OF COMPLETION TO THE INSPECTOR OF RECORD AND/OR AUTHORITY HAVING JURISDICTION.

13. PROVIDE ADEQUATE QUALIFIED TESTING PERSONNEL FAMILIAR WITH THE PROJECT WHO ARE LICENSED BY THE STATE OF CALIFORNIA TO INSTALL, TEST, AND MAINTAIN FIRE ALARM SYSTEMS.

14. PROVIDE ALL NECESSARY EQUIPMENT FOR TESTING OF THE SYSTEM (TEST SMOKE, HEAT GUN, EXTENSION CORDS, LADDERS, RADIOS FOR COMMUNICATION, DB METERS, ETC.).

15. PERFORM 24-HOUR BATTERY TEST AND VERIFY THAT AUDIBLE DEVICES OPERATE FOR THE REQUIRED TIME AS SHOWN ON THE APPROVED DRAWINGS.

16. PRIOR TO TESTING VERIFY THAT THE FIRE ALARM CONTROL UNIT (FACU) IS IN SYSTEM NORMAL CONDITION.

17. VERIFY THAT DEVICE LOCATIONS ARE INSTALLED PER APPROVED CONSTRUCTION DOCUMENTS.

18. ENSURE THAT THE SEQUENCE OF OPERATIONS FROM THE APPROVED DRAWINGS IS FOLLOWED.

19. TEST ALL DEVICES ON THE APPROVED SHOP DRAWINGS IN ACCORDANCE WITH THE MANUFACTURES PUBLISHED INSTRUCTIONS.

20. VERIFY THAT LOCATION/ROOM DESCRIPTIONS CORRESPOND TO THE ACTUAL DEVICE TESTED.

21. VERIFY THAT ALL INTERFACE EQUIPMENT AND EMERGENCY CONTROL FUNCTIONS (AHU'S, FANS, ELEVATORS, ETC.) OPERATE AS INTENDED AND SHOWN IN THE APPROVED SEQUENCE OF OPERATION.

22. VERIFY THAT SIGNALS HAVE BEEN RECEIVED BY THE MONITORING STATION.

23. TEST 100% OF ALL NEW DEVICES AND 10% PERCENT OF INITIATING DEVICES THAT ARE NOT DIRECTLY AFFECTED BY THE CHANGES MADE TO THE SYSTEM, UP TO A MAXIMUM OF 50 DEVICES, CORRECT SYSTEM OPERATION SHALL BE VERIFIED.

24. FOR SYSTEM DEFICIENCIES FOUND DURING ALARM TEST WHICH CANNOT BE REPAIRED IMMEDIATELY AN EQUAL DEGREE OF SAFETY SHALL BE PROVIDED FOR THE OCCUPANCY OR IF DETERMINED NECESSARY BY THE AHJ A FIRE WATCH SHALL BE PROVIDED PER HCAI/OSHPD PIN 14.

25. AFTER COMPLETION OF TESTING VERIFY THAT FACU IS IN SYSTEM NORMAL CONDITION. IF ANY EMERGENCY CONTROL FUNCTIONS WERE BYPASSED DURING THE SYSTEM TEST, ENSURE THEIR CORRECT OPERATION BEFORE COMPLETING THE SYSTEM TESTING.

26. NOTIFY ALL PERSONS AND FACILITIES RECEIVING ALARM, SUPERVISORY, OR TROUBLE SIGNALS AND ALL BUILDING OCCUPANTS THAT THE TESTING HAS BEEN COMPLETED AND ANY FUTURE FIRE ALARM SIGNALS OR ALARMS ARE TO BE RESPONDED TO ACCORDING TO ESTABLISHED PROCEDURES.

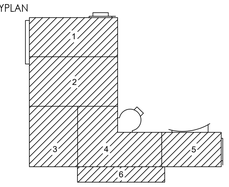
27. AS-BUILT INSTALLATION DRAWINGS, MAINTENANCE MANUALS AND A WRITTEN SEQUENCE OF OPERATION SHALL BE PROVIDED TO THE BUILDING OWNER OR THEIR DESIGNATED REPRESENTATIVE.

28. THE RECORD OF COMPLETION AND ACCEPTANCE TESTING DOCUMENTATION SHALL BE PROVIDED TO THE BUILDING OWNER OR THEIR DESIGNATED REPRESENTATIVE.

Consultant

Architect / Engineer of Record

KEYPLAN



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INCREMENT 4 - I230010-43-04

Facility

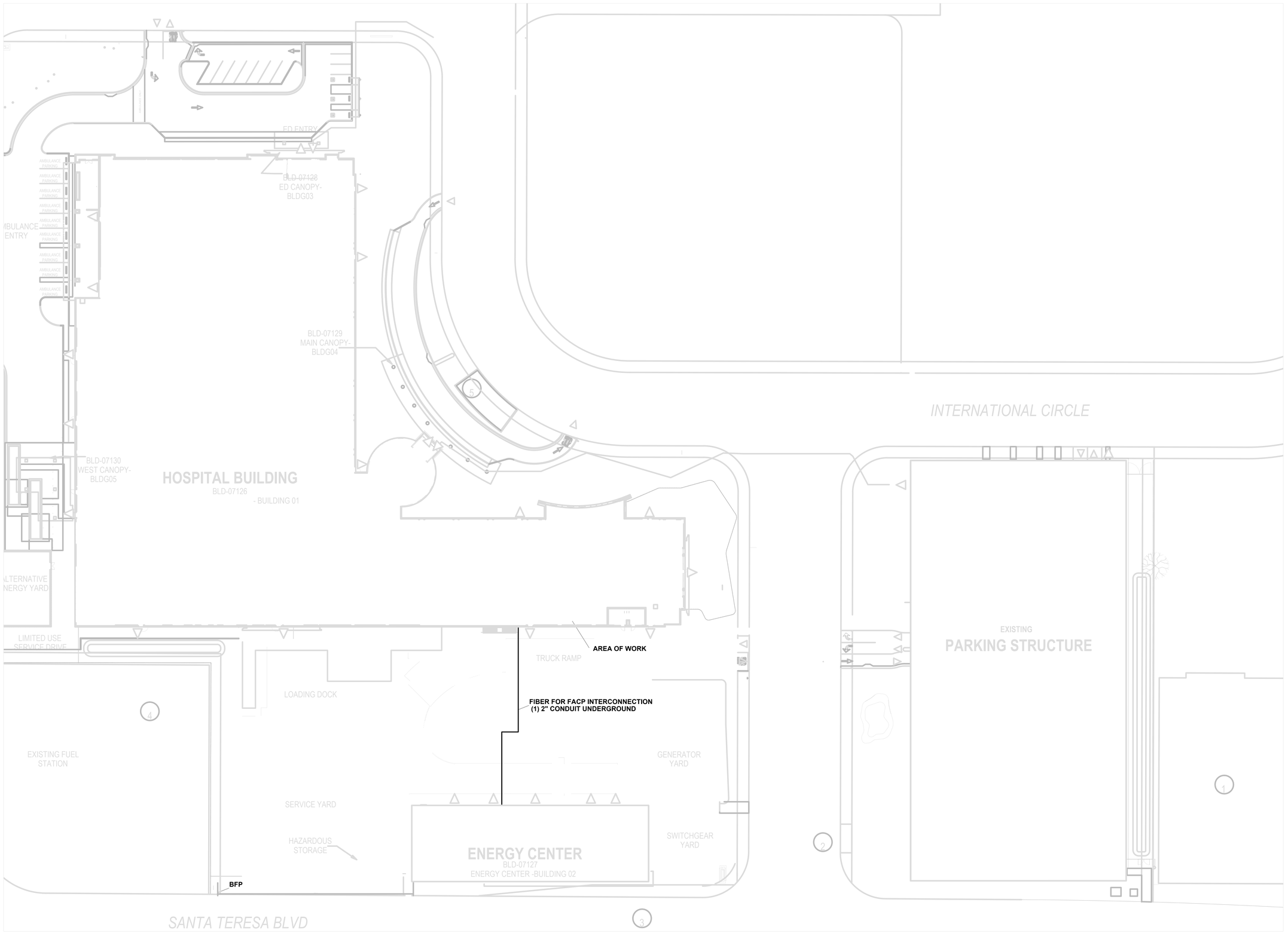
Project

Title
CONTRACTOR NOTES AND PROJECT NOTES

Building ID	Floor Lev.
Scale NTS	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	

Sheet
H-FA003

ORIGINAL SHEET - ARCH E1



FIRE ALARM SITE PLAN

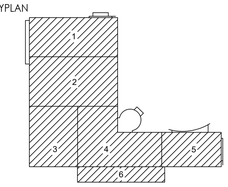
SCALE 1/32" = 1'

N

Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd.

Agency Approval

OSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

Project

Title
FIRE ALARM SITE PLAN

Building ID: Floor Lev:

Scale 1/32" = 1'-0"
Drwn By LW
Chckd By VL

KP Proj. No.
Stantec No.

Sheet
H-FA004

ORIGINAL SHEET - ARCH E1

SYSTEM OUTPUTS		ACTUATE ALARM SIGNAL INDICATOR AT FACP	ACTUATE SUPERVISORY SIGNAL INDICATOR AT FACP	ACTUATE TROUBLE SIGNAL INDICATOR AT FACP	TRANSMIT ALARM SIGNAL TO SUPERVISING STATION	TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	INDICATE CHANGE OF STATUS ON SMOKE CONTROL PANEL	DISPLAY / PRINT CHANGE OF STATUS	ACTUATE AUDIBLE AND VISUAL EVACUATION SIGNALS ON FLOOR OF ALARM. SEE NOTE 2	ACTUATE AUDIBLE AND VISUAL EVACUATION SIGNALS ON FLOOR ABOVE ALARM. SEE NOTE 2	ACTUATE AUDIBLE AND VISUAL EVACUATION SIGNALS ON FLOOR BELOW ALARM. SEE NOTE 2	ACTIVATE AUDIBLE ALARM AT ASSOCIATED NURSES STATION. SEE NOTE 3	UNLOCK STAIRWELL ACCESS CONTROLED SECURITY DOORS IN ASSOCIATED SMOKE COMPARTMENT STAIRWELL (SEE NOTE 4)	RELEASE DELAYED EGRESS DH FLOOR OF ALARM	POWER CUT OFF AND RELEASE DOOR HOLDERS AND AUTODOORS ON FLOOR OF ALARM	MAN FLOOR ELEVATOR RECALL	ALTERNATE FLOOR ELEVATOR RECALL	ACTIVATE RELAY IN SMOKE DETECTOR FOR NURSE CALL INTERFACE AND CLOSE FSD'S	ACTIVATE ALL DOORS	RANGE OF 20 TO 60 SECONDS (ADJ) AFTER ALARM SHUT DOWN FSD'S IN ASSOCIATED SMOKE COMPARTMENT NOT ASSOCIATED WITH FAN COILS. SEE NOTE 1)	SHUT DOWN ASSOCIATED AIR HANDLING UNIT (SEE NOTE 1)	SHUT DOWN ASSOCIATED FAN COILS UNITS GREATER THAN 2,000 CFM	START STAIR PRESSURIZATION FANS	STOP STAIR PRESSURIZATION FANS	ACTIVATE ALL OPEN THE DAMPERS THAT'S ASSOCIATED MOTORIZED DAMPER (ELEVATOR VENTING SYSTEM)	MANUALLY CONTROL OPEN THE HOSPITAL'S ASSOCIATED MOTORIZED DAMPER (ELEVATOR VENTING SYSTEM)	CLOSE POSITION INDICATION ON FIRE ALARM CONTROL PANEL	CLOSE FSD'S ASSOCIATED WITH CRITICAL CARE ROOM	ACTIVATE RAMP DOWN RELAY	RANGE OF 20 TO 60 SECONDS (ADJ) AFTER ALARM, CLOSE ALL FSD'S FOR ALL SMOKE COMPARTMENTS SERVED BY AHU SERVING SMOKE COMPARTMENTS IN ALARM	SHUT DOWN ALL AHUS IN BUILDING	RANGE OF 20 TO 60 SECONDS (ADJ) AFTER ALARM, CLOSE ALL FSD'S FOR ALL SMOKE COMPARTMENTS	PUSH BUTTON FOR SHUT DOWN	MAINTAIN AIR SUPPLY TO KITCHEN TO AVOID NEGATIVE PRESSURIZATION	ACTIVATE SMOKE CURTAIN - ELEVATOR LOBBY (WHERE SHOWN)	SHUT DOWN ASSOCIATED DXFCU
		CONTROL UNIT ANNUNCIATION							NOTIFICATION					FIRE SAFETY CONTROL																MECHANICAL																
SYSTEM INPUTS		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI
FIRST AREA DETECTION WITHIN SMOKE COMPARTMENT AREA SERVED BY NON-CRITICAL AHU	1	X			X				X	X	X	X		X	X	X				X		X	X					X				X			
SECOND AREA DETECTION WITHIN SEPARATE SMOKE COMPARTMENT AREA	2	X			X				X	X	X	X		X	X	X				X		X							X	X	X	X			
FIRST AREA DETECTION WITHIN CRITICAL CARE ROOM	3	X			X				X	X	X	X		X	X	X							X									X			
SECOND AREA DETECTION WITH SAME CRITICAL CARE ROOM	4	X			X				X	X	X	X		X	X	X							X					X	X				X			
SECOND AREA DETECTION DIFFERENT CRITICAL CARE ROOM SERVED BY SAME AHU	5	X			X				X	X	X	X		X	X	X				X	X		X					X		X			X			
INITIATION OUTSIDE OF CRITICAL CARE ROOM	6	X			X				X	X	X	X		X	X	X				X	X		X					X		X			X			
SMOKE DETECTOR IN PATIENT ROOM	7	X			X				X	X	X	X	X	X	X	X		X	X				X						X				X			
HEAT DETECTOR IN PATIENT ROOM TOILET	8	X			X				X	X	X	X	X	X	X	X		X	X				X						X				X			
MANUAL PULL STATION 1 IN SMOKE COMPARTMENT	9	X			X				X	X	X	X																								
DUCT SMOKE DETECTOR IN AHU	10		X			X			X											X	X									X						
DUCT DETECTOR ON FLOOR	11		X			X			X					X	X	X				X													X			
DUCT DETECTOR BETWEEN L2 & L3 AND BETWEEN L1 & L2	12		X			X			X																					X	X		X			
DUCT DETECTOR AT SMOKE BARRIER BETWEEN OPERATING ROOM GROUPS - LEVEL 2 COMPARTMENT BOUNDARY	13		X			X			X																					X	X	X	X			
ELEVATORS 01 TO 09 LOBBY SMOKE DETECTORS @ PRIMARY ELEVATOR LOBBY	14	X			X				X	X	X	X		X	X	X		X					X										X			
ELEVATORS 10 & 11 LOBBY SMOKE DETECTORS @ PRIMARY ELEVATOR LOBBY	15	X			X				X	X	X	X		X	X	X		X					X										X			
ELEVATOR LOBBY SMOKE DETECTORS @ ALTERNATE ELEVATOR LOBBY	16	X			X				X	X	X	X		X	X	X	X						X										X			
ELEVATOR MACHINE ROOM SMOKE DETECTOR	17	X			X				X	X	X	X		X	X	X							X										X		X	
ELEVATOR TOP OF SHAFT SMOKE DETECTOR	18	X			X				X	X	X	X		X	X	X							X		X											
ELEVATOR VENTING SYSTEM MANUAL CONTROL AT FIRE ALARM PANEL	19		X			X			X																	X										
FIRE/SMOKE DAMPER OPEN/CLOSE POSITION STATUS	20								X																		X									
KITCHEN HOOD SUPPRESSION SYSTEM ACTIVATED	21	X			X				X	X	X	X		X						X			X										X			
STAIR PRESSURIZATION FAN MANUAL ON	22		X			X		X	X					X	X	X							X													
STAIR PRESSURIZATION FAN DUCT DETECTOR ALARM	23		X			X		X	X					X	X	X								X						X						
WATERFLOW SWITCH ACTIVATION	24	X			X				X	X	X	X			X	X							X													
TAMPER SWITCH NOT NORMAL POSITION	25		X			X			X																											
POST INDICATOR VALVE NOT NORMAL POSITION	26		X			X			X																											
FIRE PUMP RUNNING	27		X			X			X																											
FIRE PUMP LOSS OF PHASE	28		X			X			X																											
FIRE PUMP PHASE REVERSAL	29		X			X			X																											
FIRE PUMP CONTROLLER	30		X			X			X																											
ERRCS - COMMUNICATION BETWEEN FIRE ALARM CONTROL PANEL AND ERRCS SYSTEM	31			X			X		X																											
ERRCS - DONOR ANTENNA MALFUNCTION	32		X			X			X																											
ERRCS - SIGNAL BOOSTER FAILURE	33		X			X			X																											
ERRCS - SENDING A SUPERVISORY SIGNAL AT 70% REDUCTION OF OPERATING CAPACITY	34		X			X			X																											
ERRCS - LOSS OF NORMAL AC POWER	35		X			X			X																											
ERRCS - FAILURE OF BATTERY CHARGER	36		X			X			X																											
ERRCS - ANTENNA FAILURE	37		X			X			X																											
ERRCS - ACTIVE RF EMITTING DEVICE MALFUNCTION	38		X			X			X																											
ERRCS - SYSTEM COMPONENT MALFUNCTION	39		X			X			X																											
LOSS OF 120 AC TO FACP	40			X			X		X										X																	
FIRE ALARM SYSTEM LOW BATTERY	41			X			X		X																											
OPEN CIRCUIT OR GROUND FAULT	42			X			X		X																											
AREA DETECTION WITHIN ROOM SERVED BY FCU	43																					X														

NOTE 1: REFER TO MECHANICAL SPEC SHEET H-M901 FOR SMOKE COMPARTMENT FSD SHUTDOWN CHART AND SEQUENCES
NOTE 2: AUDIBLE EVACUATION SIGNAL WILL BE CHIME TONE FOLLOWED BY VOICE MESSAGE
NOTE 3: THE NURSE CALL SYSTEM SHALL MONITOR THE PATIENT ROOM SMOKE DETECTOR RELAY AND ACTIVATE THE FIRE INDICATOR IN THE ASSOCIATED DOME LIGHT
NOTE 4: ALL STAIRWELL ACCESS CONTROLED SECURITY DOORS ARE LOCKED FROM INGREES SIDE ONLY AND ALLOW FREE EGREES FROM VESTIBULE TO STAIRWELL

SMOKE CONTROL CONCEPTUAL SEQUENCE OF OPERATIONS (1)

INITIATING DEVICE	ACTIVE SMOKE CONTROL RESPONSE	SMOKE COMPARTMENTATION & HVAC ISOLATION RESPONSE		
	Activate Stair Pressurization Systems	Shutdown Associated HVAC AHUs and Exhaust Fans (2)	Close Associated Smoke Dampers and Fire/Smoke Dampers (2)	Release Magnetic Door Holders; Activate Fire/Smoke Shutters and/or Curtains
SMOKE AND HEAT DETECTION				
Area Smoke Detector / Heat Detector	■		■	■
Duct Detector		■ (3) (4)	■ (5)	
SPRINKLER WATERFLOW				
Sprinkler Waterflow Switch	■			■
MANUAL CONTROLS				
Manual Pull Station				■
Firefighter's Smoke Control Panel	■			

(1) Detailed smoke control mechanical equipment and fire alarm sequence of operations to be developed by the Mechanical Engineer of Record and the Fire Alarm Designer / Contractor, respectively.

(2) Refer to the HVAC System Isolation Strategy section of this Report for discussion of fan shutdowns, damper activation methods, and general HVAC Isolation Strategy.

(3) AHU duct detector activation will immediately shutdown the associated AHU. All smoke and fire/smoke dampers provided for the associated AHU will close. Exhaust fans serving zones served by the associated AHU will shut down.

(4) Duct detector activation at the stair pressurization fan shall shut down the fan and activate the fault light on the FSCP. The fan shall be capable of being restarted from manual controls at the FSCP.

(5) Where required/provided, local duct detectors provided at smoke dampers and/or fire/smoke dampers will close the associated damper.

GENERAL NOTES FOR MECHANICAL SEQUENCE OF OPERATION

- PRIORITIES: ALL ACTIONS FROM THE FIRE ALARM SYSTEM SHALL HAVE HIGH PRIORITY. NO MANUAL OR AUTOMATIC CONTROL FROM BAS SHALL CONTRADICT THE CONTROL ACTION.

ELEVATOR VENTING

- OVERRIDE CONTROL TO BE LOCATED IN THE FIRE ALARM PANEL.

FAN COIL UNITS (FCUS)

- IF THE SMOKE COMPARTMENT WHERE THE FCU IS LOCATED IS IN-ALARM, THE FCU REMAIN FUNCTIONAL. FSDS IN THE DXFCU DUCTWORK SERVING ELEVATOR MACHINE/CONTROL ROOMS REMAIN OPEN.

PRECISION AIR CONTROL UNITS (PAC)

- IF THE ROOM AREA SMOKE DETECTOR IS IN ALARM, PAC IS SHUT DOWN BY FA SYSTEM.
- IF THE SMOKE COMPARTMENT WHERE PAC IS LOCATED IS IN ALARM, THE PAC REMAIN FUNCTIONAL.

EXHAUST FANS

DEDICATED FANS:

- DEDICATED EXHAUST FANS SERVING THE HVAC SMOKE COMPARTMENT IN ALARM SHALL REMAIN ON.
- FOR FANS WITH FSD INSTALLED IN THE EXHAUST DUCTWORK, ONCE FSD IN THE DUCTWORK IS COMMANDED CLOSED BY THE FA SYSTEM, THE CONTINUED OPERATION OF THE FAN WILL CREATE A HIGH SUCTION PRESSURE WHICH WILL ACTIVATE THE PRESSURE SAFETY SWITCH INSTALLED IN THE DUCTWORK. THE PRESSURE SWITCH HARDWIRED TO THE FAN'S VFD WILL SHUTDOWN THE FAN.

NON-DEDICATED FANS:

- NON-DEDICATED EXHAUST FANS SERVING MULTIPLE SMOKE COMPARTMENTS WILL REMAIN OPERATIONAL TO SERVE THE REMAINING SMOKE COMPARTMENTS NOT IN ALARM. FSDS WILL CLOSE TO ISOLATE THE DUCT SYSTEM FOR THE SMOKE COMPARTMENT IN ALARM. EXHAUST FAN AIRFLOW RATE WILL BE REDUCED TO RESPOND TO THE HVAC SYSTEM ISOLATION THRU DIFFERENTIAL STATIC PRESSURE SENSOR INSTALLED IN THE DUCTWORK TO AVOID DAMAGING EQUIPMENT OR DUCTWORK.

CAFE HOODS

- FIRE ALARM SYSTEM WILL BE NOTIFIED OF THE ACTIVATION OF THE ANSUL SYSTEM BUT THE SUPPLY AIR TO THE KITCHEN SHALL REMAIN ON TO PREVENT NEGATIVE PRESSURIZATION DURING A FIRE SCENARIO UNDER THE HOOD.

AIR HANDLING UNITS (AHU)

FA ANNUNCIATION TO AVOID AHU HIGH PRESSURE SHUTDOWN:

- FA SYSTEM PROVIDES A SIGNAL TO BAS {VIA RELAY} BEFORE AN FSD ZONE IS COMMANDED FOR SHUT DOWN IMMEDIATELY.
- FA-SYSTEM WILL HAVE AN ADJUSTABLE TIME DELAY OF {20 SECONDS} WHICH ALLOWS THE BAS TO RAMP THE AHU DOWN BEFORE FA SYSTEM CLOSES RELATED DAMPERS. IF THERE IS A SECOND DETECTOR IN THE SAME SMOKE COMPARTMENT IN ALARM, THEN THE FA SYSTEM WILL CONTINUE TO CLOSE RELATED DAMPERS AND THE AHUS(S) SERVING THE SAME SMOKE COMPARTMENT WILL CONTINUE TO OPERATE.

  NOTE THAT CODE REQUIREMENT IS 60 SECONDS.

- UPON RECEIPT OF SIGNAL FROM FA SYSTEM, BAS WILL INITIATE A FAN SPEED REDUCTION SEQUENCE. AFTER AN ADJUSTABLE TIME-DELAY, BAS WOULD TERMINATE THIS SEQUENCE TO RESUME NORMAL OPERATIONS.

HVAC SMOKE COMPARTMENT DESIGN INTENT:

- WHEN A ZONE ALARM IS RECEIVED BY THE FIRE ALARM SYSTEM, THE DESIGNATED FSDS ARE COMMANDED TO CLOSE BY THE FIRE ALARM SYSTEM PER THE FSD MATRIX FOUND IN M9.00 - M9.40 SERIES DRAWINGS.
- FOR AHU-H-01A/B, AHU-H-02A/B, AHU-H-03A/B, AHU-H-04A/B, AHU-H-08A/B, AND AHU-H-09, WHEN TWO ZONES SERVED BY THE SAME AHU ARE IN ALARM, THE AIR HANDLER IS COMMANDED OFF AND ALL AHUs SERVING THE HOSPITAL WILL SHUTDOWN.
- FOR AHU-H-05S A/B & AHU-H-05E, AHU-06S A/B & AHU-06E A/B, AND AHU-H-10A/B, WHEN TWO CRITICAL CARE ROOMS SERVED BY THE AHU ARE IN ALARM, THE AIR HANDLER IS COMMANDED OFF, AND ALL OF THE FIRE SMOKE DAMPERS SERVED BY THAT AHU ARE COMMANDED CLOSED EXCEPT SHAFT DAMPERS THAT ARE CONTROLLED BY DUCT DETECTORS. AHU-H-05S A/B & AHU-H-05E, AHU-06S A/B & AHU-06E A/B, AND AHU-H-10A/B SHALL NOT BE SHUTDOWN BY ALARMS IN ANY NON-CRITICAL AREAS, UNTIL OR UNLESS THERE ARE (2) AREA DETECTION INITIATIONS WITHIN (2) DISTINCT SMOKE COMPARTMENTS THAT ARE NOT SERVED BY THE SAME AHU.

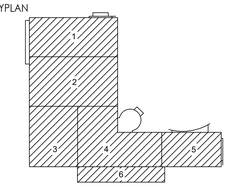
AHU-H-05S A/B & AHU-H-05SE A/B [CRITICAL CARE AREAS)

- THE CRITICAL CARE AREA AHUs MUST SHUT DOWN ON THE FOLLOWING CONDITIONS:
  * ANY TWO (2) CRITICAL CARE ROOMS GO INTO ALARM SIMULTANEOUSLY
  * A SMOKE DETECTOR OUTSIDE OF A CRITICAL CARE ROOM WITHIN A SMOKE COMPARTMENT CONTAINING DUCTS SERVING THE AHU IS ACTIVATED
  * AN AHU DUCT DETECTOR IS ACTIVATED (SUPPLY OR EXHAUST)
  * LOCAL DUCT DETECTOR WITHIN CRITICAL CARE AHU-05 DUCT SYSTEM ACTIVATE
  * LEVEL 2 SMOKE BARRIER DUCT DETECTORS IN THE AHU-05 DUCT SYSTEM ACTIVATE
- ACTIVATION OF ANY SMOKE DETECTOR WITHIN A CRITICAL CARE AREA WILL TRIGGER A SUPERVISORY ALARM IN THE SMOKE COMPARTMENT IT IS LOCATED IN. ACTIVATION OF TWO SMOKE DETECTORS WITHIN THE ROOM SHALL CLOSE THE FIRE SMOKE DAMPERS ASSOCIATED WITH ISOLATING THE ROOM (SUPPLY AND EXHAUST AIR). ALL OTHER DAMPERS SERVING THE MAIN ZONE REMAINS OPEN TO ALLOW CONTINUOUS OPERATION OF OTHER CRITICAL AREAS NOT IN ALARM.
- IF A SMOKE DETECTOR LOCATED OUTSIDE OF THESE SUBZONES IS IN ALARM, THE FIRE SMOKE DAMPERS SERVING THESE AREAS AND ALL THE FIRE SMOKE DAMPERS SERVING THE SMOKE COMPARTMENT ZONES SERVED BY AHU-H-05SA/B & AHU-H-05E A/B ARE COMMANDED CLOSED AND AHU-H-05S A/B & AHU-H-05E A/B ARE SHUTDOWN.
- L1 TRAUMA/CARDIAC OR ROOM AND EMERGENCY RESPONSE SPACE ROOMS WILL HAVE TWO SMOKE DETECTORS. ACTIVATION OF THE SMOKE DETECTOR IN TRAUMA/CARDIAC OR ROOM AND EMERGENCY RESPONSE SPACE ROOMS WILL TRIGGER AN ALARM IN THE SMOKE COMPARTMENT IT IS LOCATED IN. ACTIVATION OF TWO SMOKE DETECTORS WITHIN THE ROOM SHALL CLOSE ALL THE FIRE SMOKE DAMPERS ASSOCIATED WITH ISOLATING THE ROOM (SUPPLY AND EXHAUST AIR) THAT ONLY SERVE THE ROOM AS NOTED IN M905. ALL OTHER DAMPERS SERVING THE MAIN ZONE REMAINS OPEN TO ALLOW CONTINUOUS OPERATION OF OTHER CRITICAL AREAS NOT IN ALARM.

Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04
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	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Agency Approval
OSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

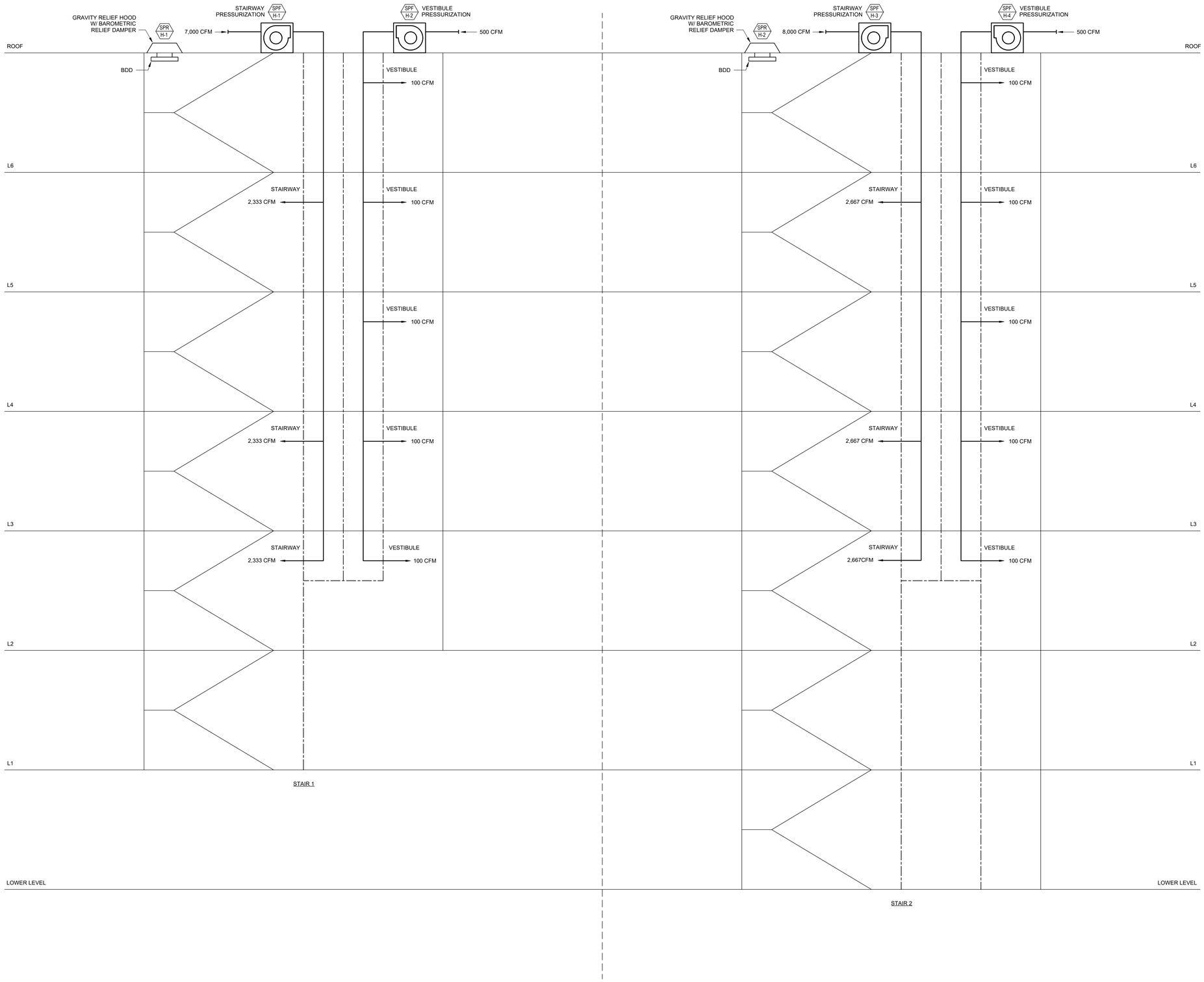
Facility

Project

Title
FIRE ALARM MATRIX

Building ID:	Floor Lev:
Scale NTS	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By YL	Sheet H-FA011

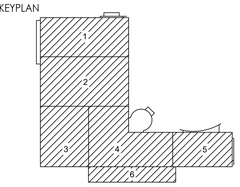
ORIGINAL SHEET - ARCH E1



Consultant

Architect / Engineer of Record

KEYPLAN



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	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

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INCREMENT 4 - I230010-43-04

Facility

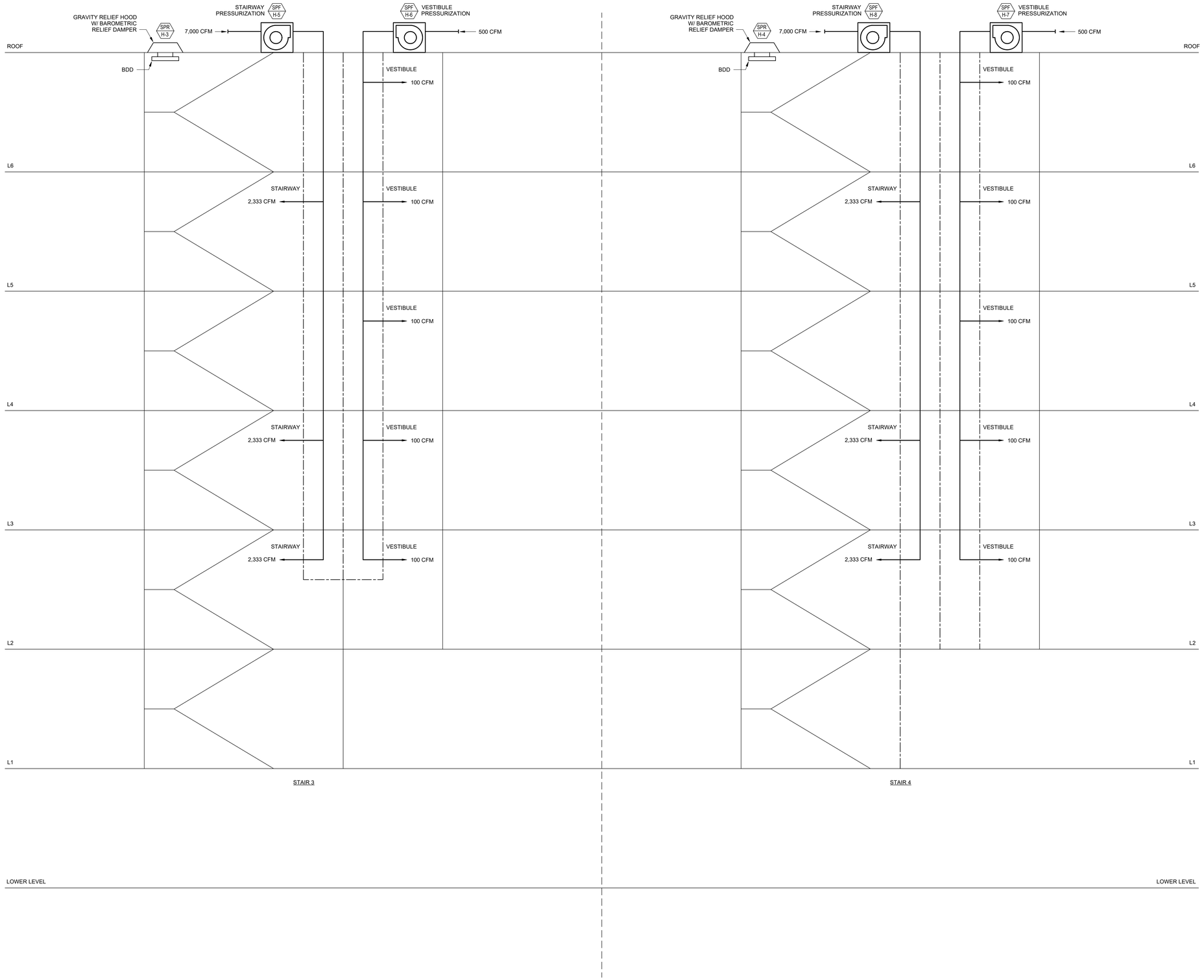
Project

Title

SMOKE CONTROL MATRIX - STAIR PRESSURIZATION 1

Building ID:		Floor Lev:	
Scale	NTS	KP Proj. No.	
Drwn By	LW	Stantec No.	
Chckd By	VL	Sheet	H-FA012

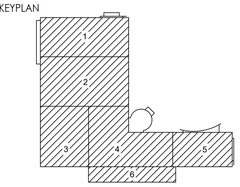
ORIGINAL SHEET - ARCH E1



Consultant

Architect / Engineer of Record

KEYPLAN



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INCREMENT 4 - I230010-43-04

Facility

Project

Title

SMOKE CONTROL MATRIX - STAIR PRESSURIZATION 2

Building ID		Floor Lev.	
Scale	NTS	KP Proj. No.	
Drwn By	LW	Stantec No.	
Chckd By	VL	Sheet	**H-FA013**

ORIGINAL SHEET - ARCH E1

CONTINUES ON PAGE H-FA015

ORIGINAL SHEET - ARCH E1

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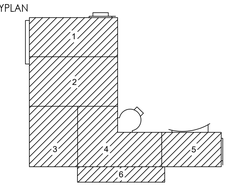

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Agency Approval

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INCREMENT 4 - 122001D-43-04

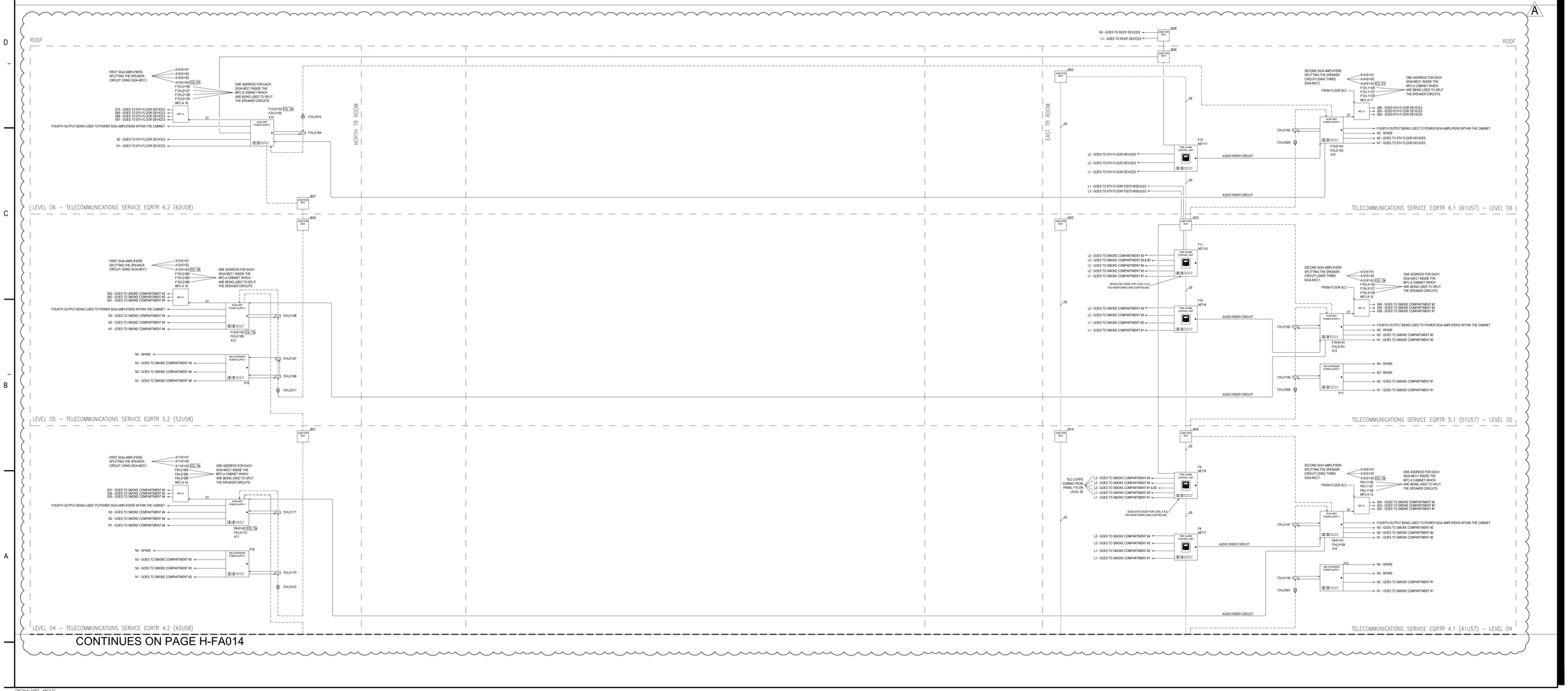
Facility

Project

Title

FIRE ALARM RISER DIAGRAM

Building ID:	Floor Lev:
Scale NTS	KP Proj. No.
Dwn By LW	Stantec No.
Chckd By VL	Sheet **H-FA014**



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Architect / Engineer of Record

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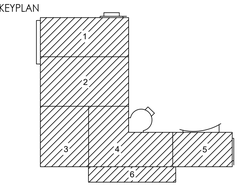

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INCREMENT 4 - I230010-43-04

Facility

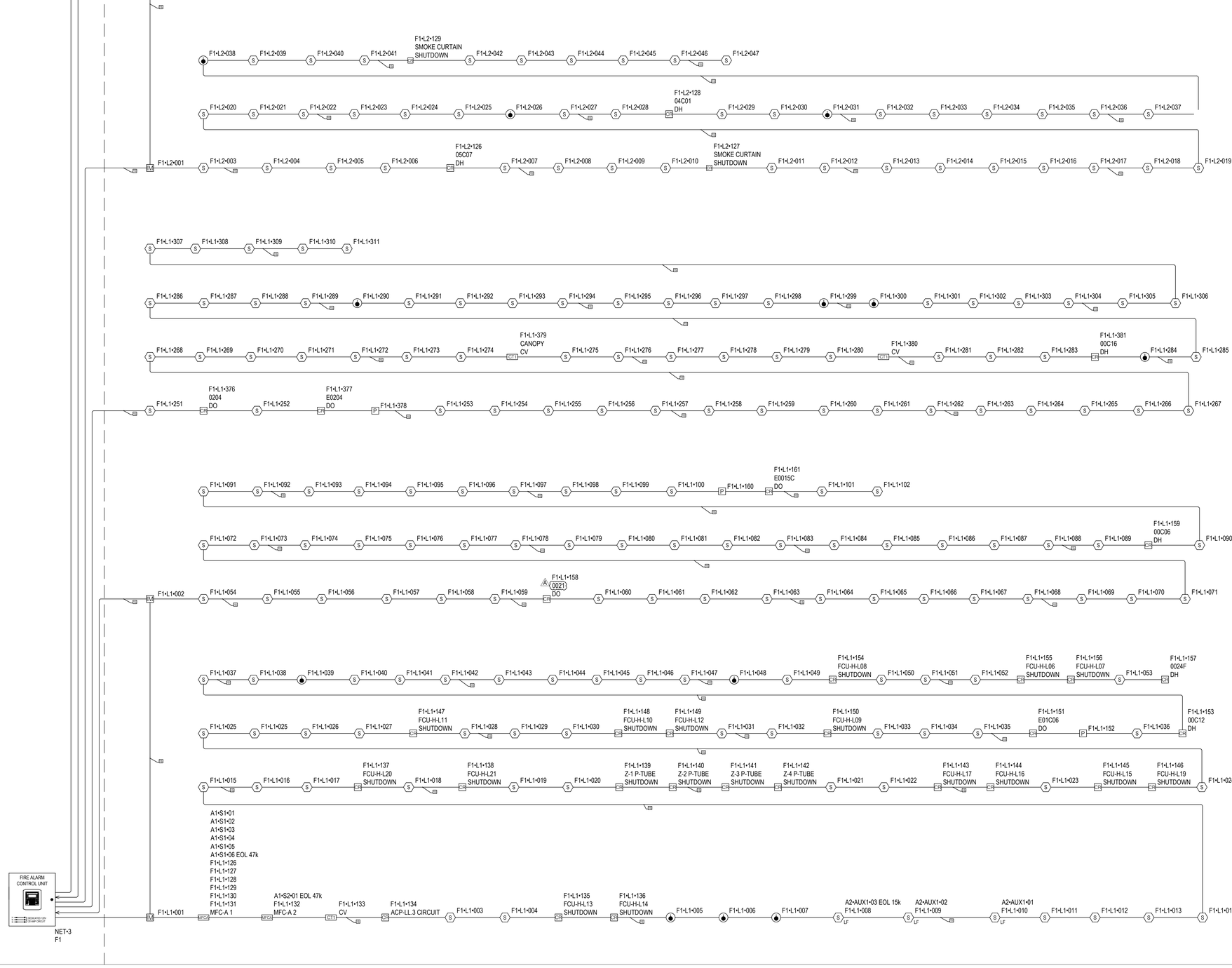
Project

Title

FIRE ALARM RISER DIAGRAM

Building ID:	Floor Lev:
Scale NTS	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet H-FA015

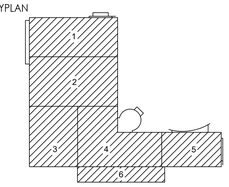
ORIGINAL SHEET - ARCH E1



Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04
Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Agency Approval

DSHPD No. I230010-43-00

INCREMENT 4 - I230010-43-04

Facility

Project

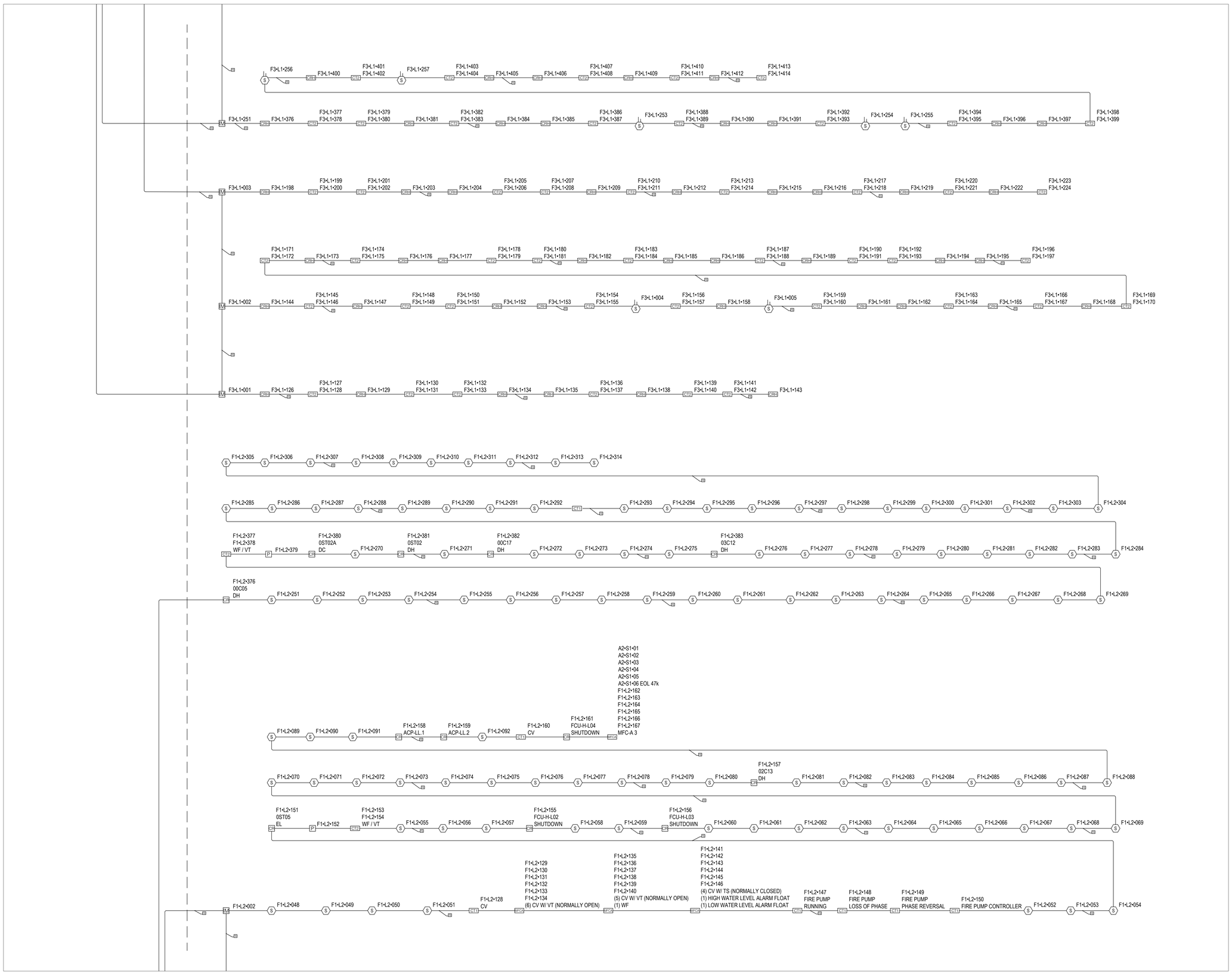
Title

FIRE ALARM RISER DIAGRAM

Building ID:	Floor Lev:
Scale NTS	IDP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA016

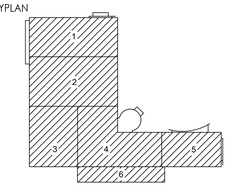
ORIGINAL SHEET - ARCH E1



Consultant

Architect / Engineer of Record

KEYPLAN



Revision

	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued

	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd.

Agency Approval

OSHPD No. I2300010-43-00
INCREMENT 4 - I2300010-43-04

Facility

Project

Title

FIRE ALARM RISER DIAGRAM

Building ID: Floor Lev:

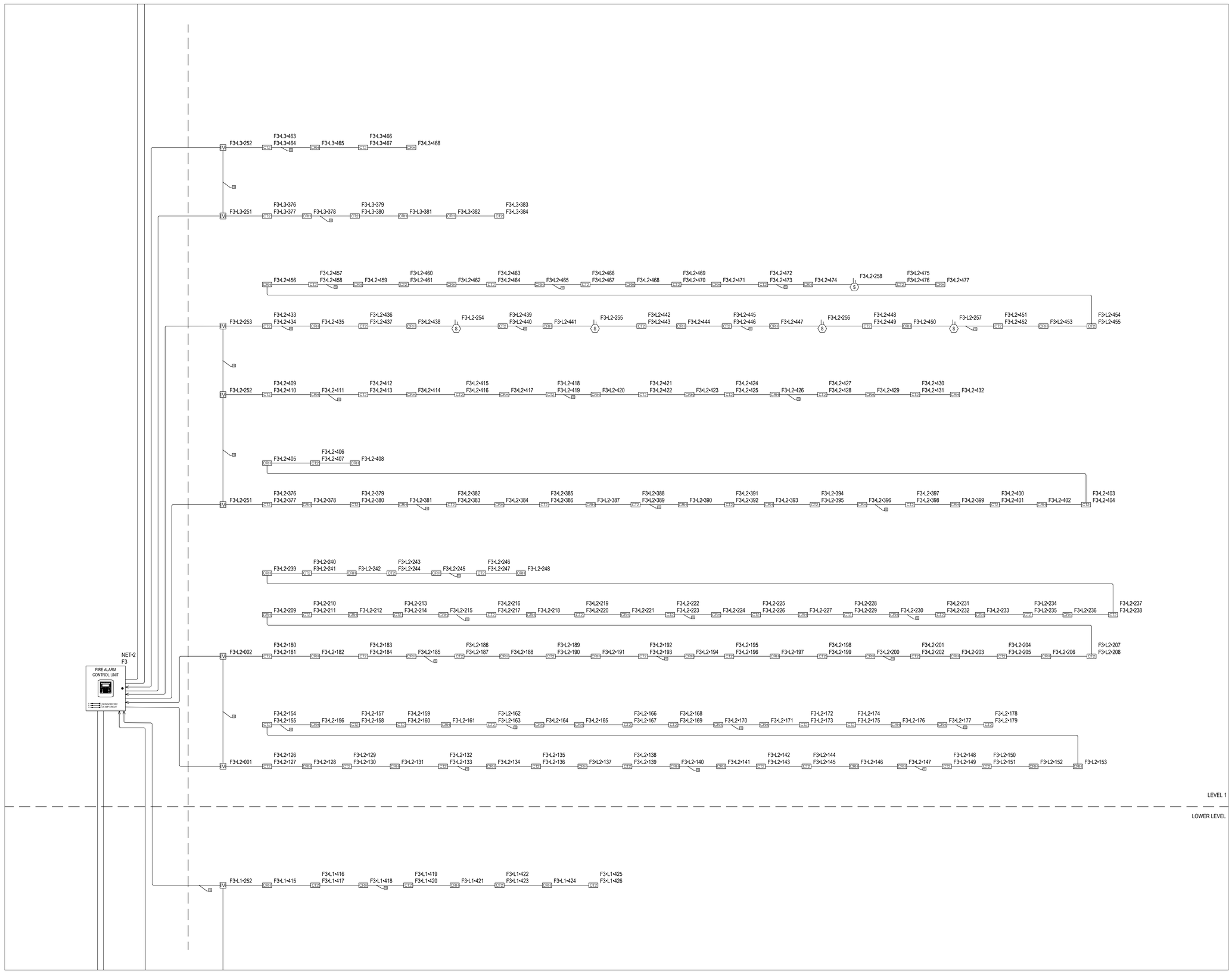
Scale NTS
Dwn By LW
Chckd By VL

KP Proj. No.
Stantec No.

Sheet

H-FA017

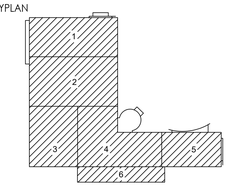
ORIGINAL SHEET - ARCH E1



Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
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Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Agency Approval

DSHPD No. I230010-43-00

INCREMENT 4 - I230010-43-04

Facility

Project

Title

FIRE ALARM RISER DIAGRAM

Building ID: Floor Lev:

Scale NTS

Drwn By LW

Chckd By VL

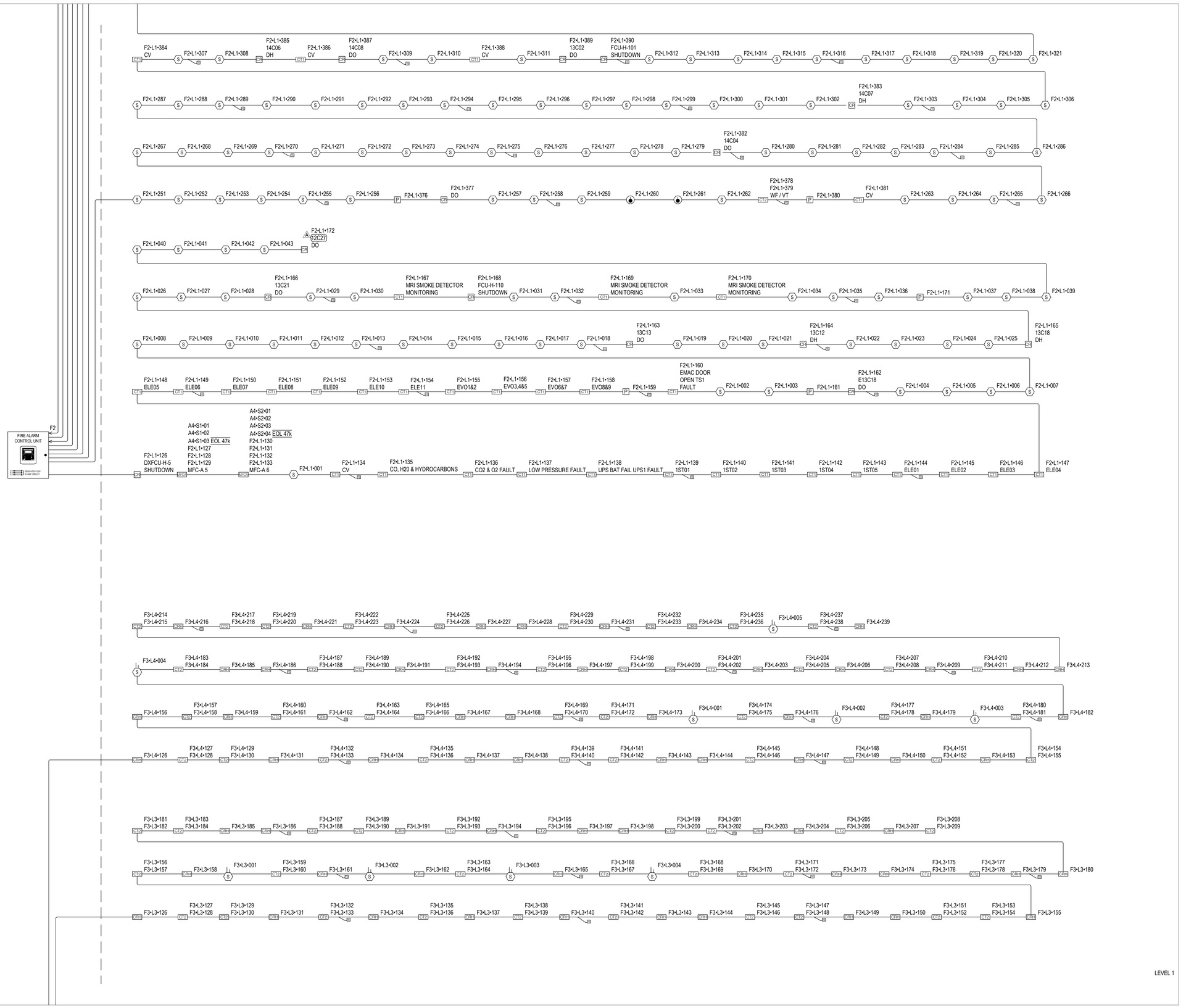
IDP Proj. No.

Stantec No.

Sheet

H-FA018

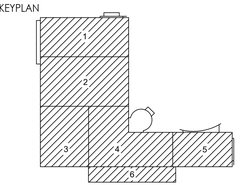
ORIGINAL SHEET - ARCH E1



Consultant

Architect / Engineer of Record

KEYPLAN



Revision

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	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd.

Agency Approval

OSHPD No. 1230010-43-00
INCREMENT 4 - 1230010-43-04

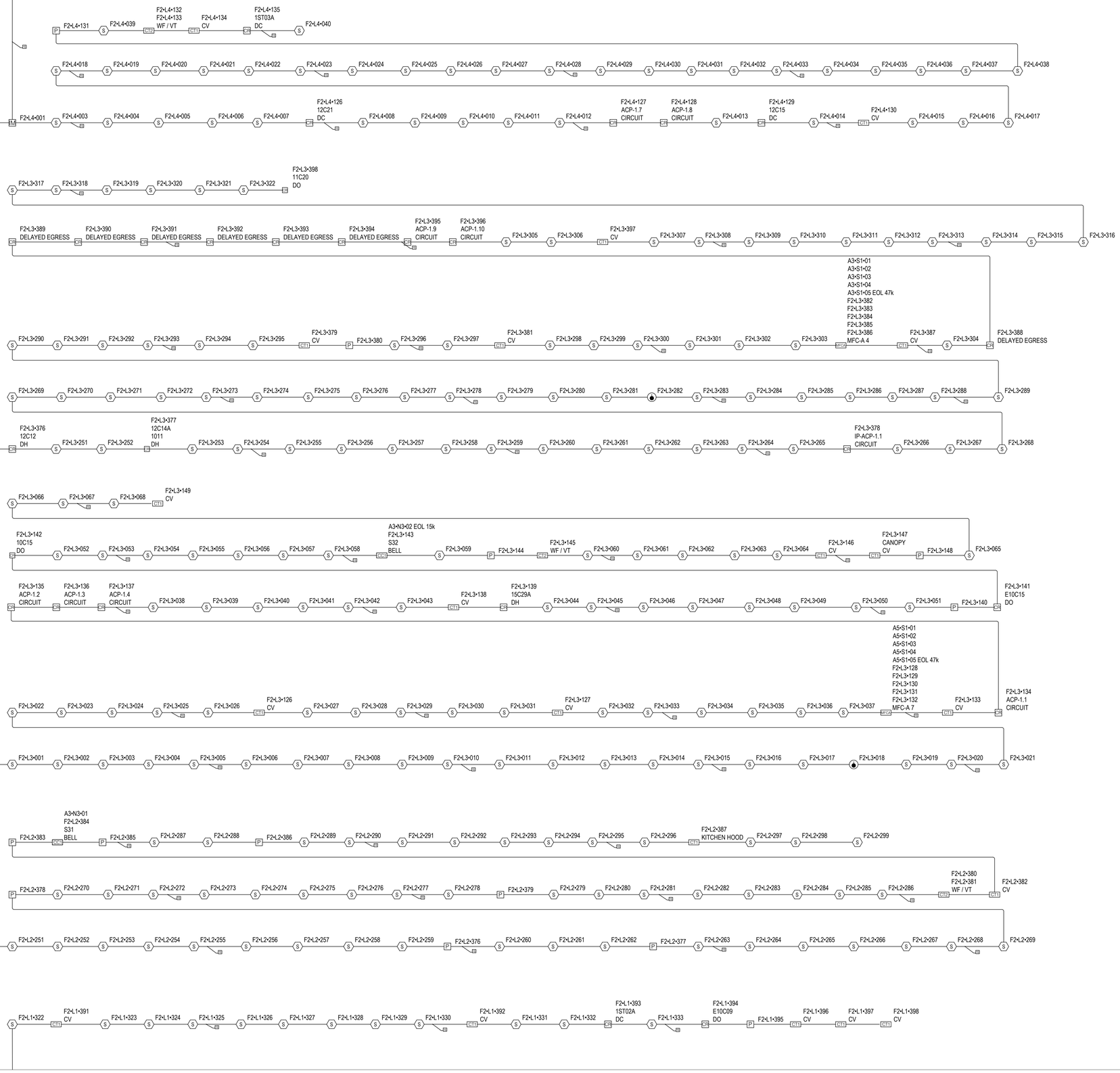
Facility

Project

Title

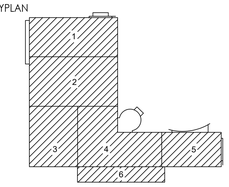
FIRE ALARM RISER DIAGRAM

Building ID:
Floor Lev:
Scale NTS
KP Proj. No.
Drwn By LW
Stantec No.
Chckd By VL
Sheet
H-FA019

ORIGINAL SHEET - ARCH E1

Consultant

Architect / Engineer of Record

KEYPLAN



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Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Agency Approval

OSHPD No. 1230010-43-00
INCREMENT 4 - 1230010-43-04

Facility

Project

Title

FIRE ALARM RISER DIAGRAM

Building ID: Floor Lev:

Scale NTS

Dwn By LW

Chckd By VL

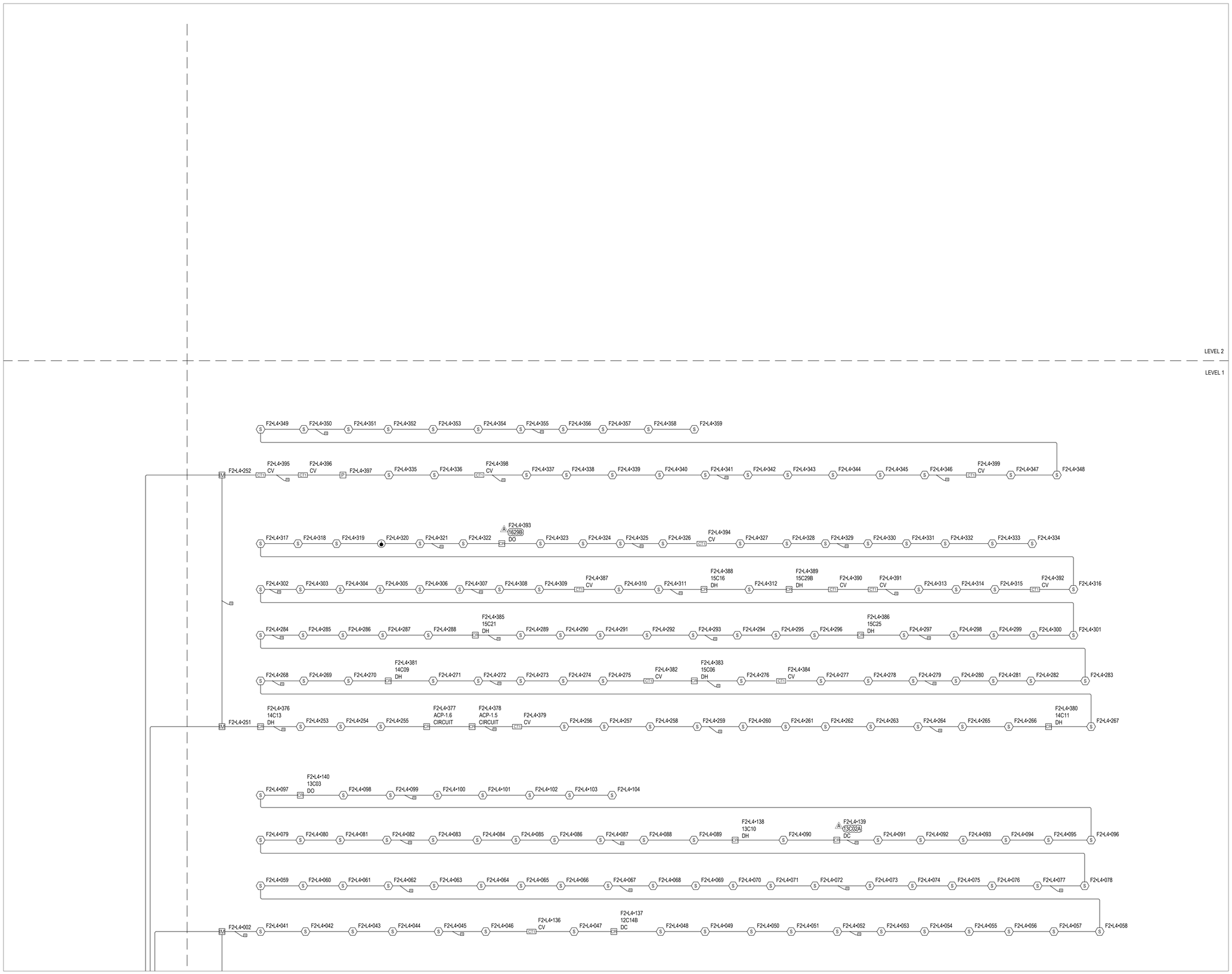
KP Proj. No.

Stantec No.

Sheet

H-FA020

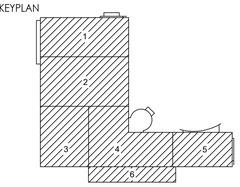
ORIGINAL SHEET - ARCH E1



Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Agency Approval

OSHPD No. 123010-43-00
INCREMENT 4 - 123010-43-04

Facility

Project

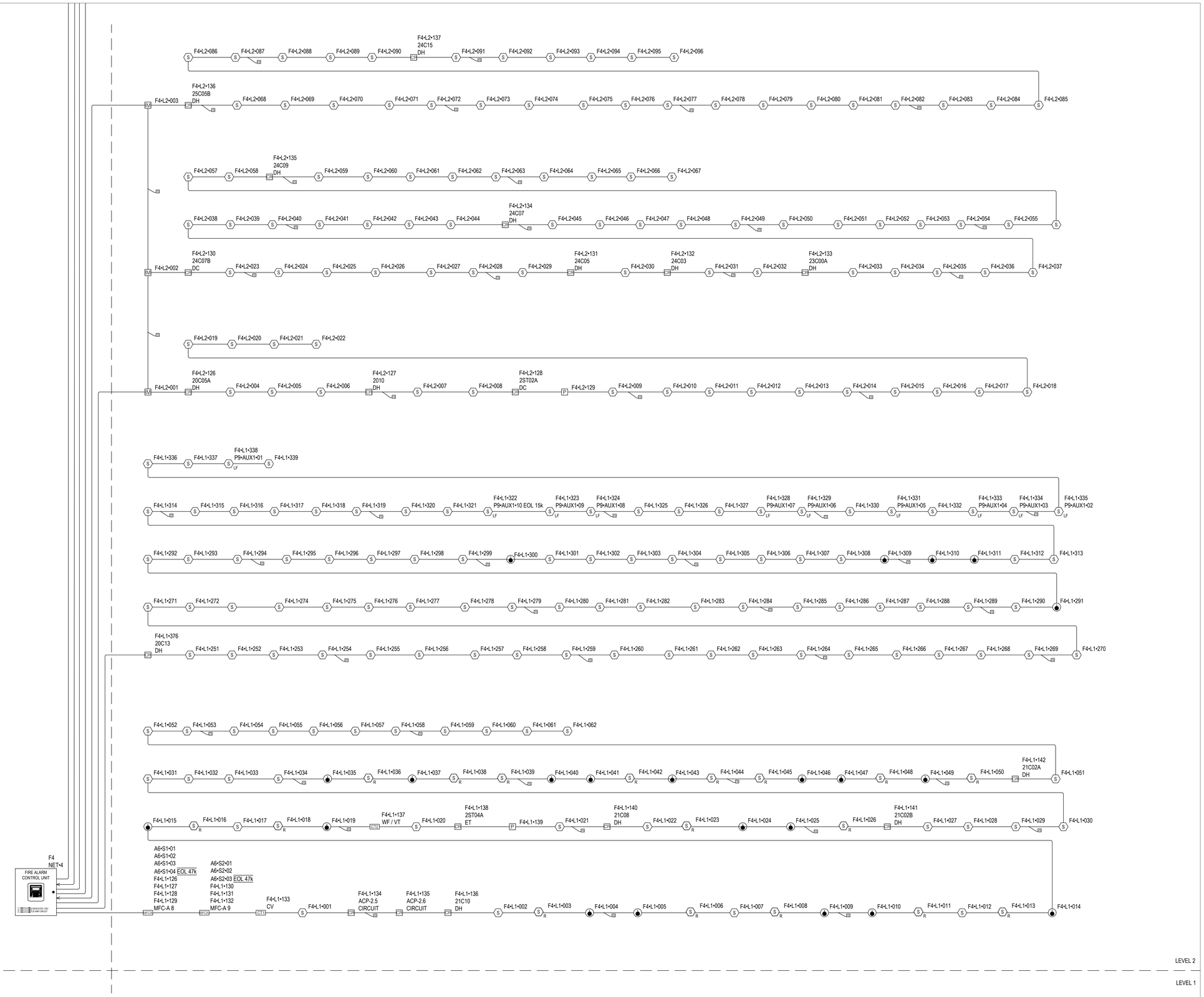
Title

FIRE ALARM RISER DIAGRAM

Building ID:	Floor Lev.:
Scale: NTS	KP Proj. No.
Dwn By: LW	Stantec No.
Chckd By: VL	Sheet

H-FA021

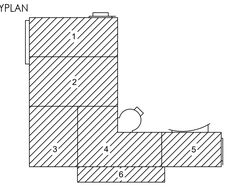
ORIGINAL SHEET - ARCH 01



Consultant

Architect / Engineer of Record

KEYPLAN



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Issued

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INCREMENT 4 - I230010-43-04

Facility

Project

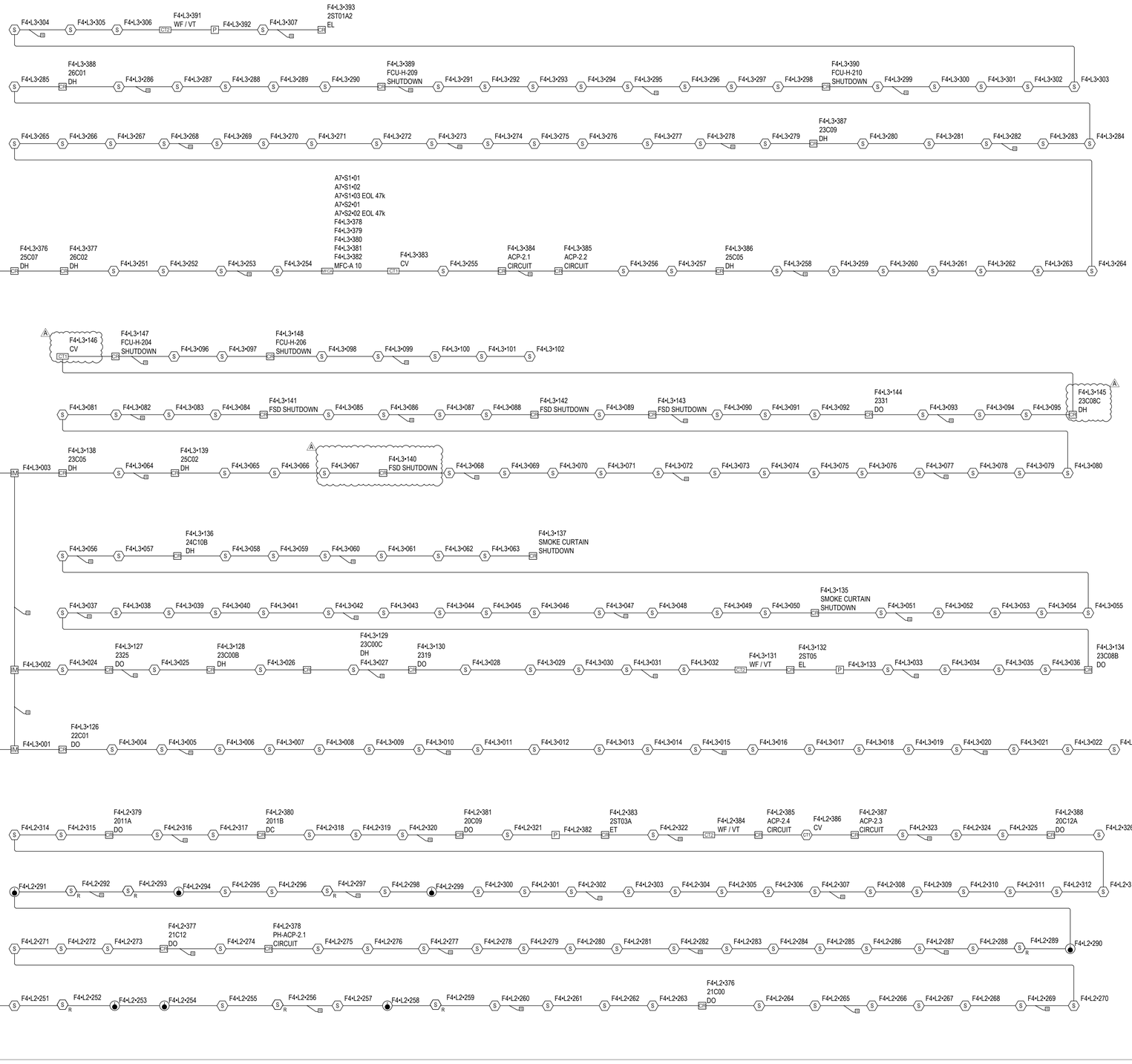
Title

FIRE ALARM RISER DIAGRAM

Building ID	Floor Lev.
Scale NTS	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA022

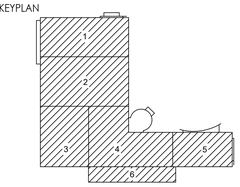
ORIGINAL SHEET - ARCH E1



Consultant

Architect / Engineer of Record

KEYPLAN



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	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

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OSHPD No. I230010-43-00

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Facility

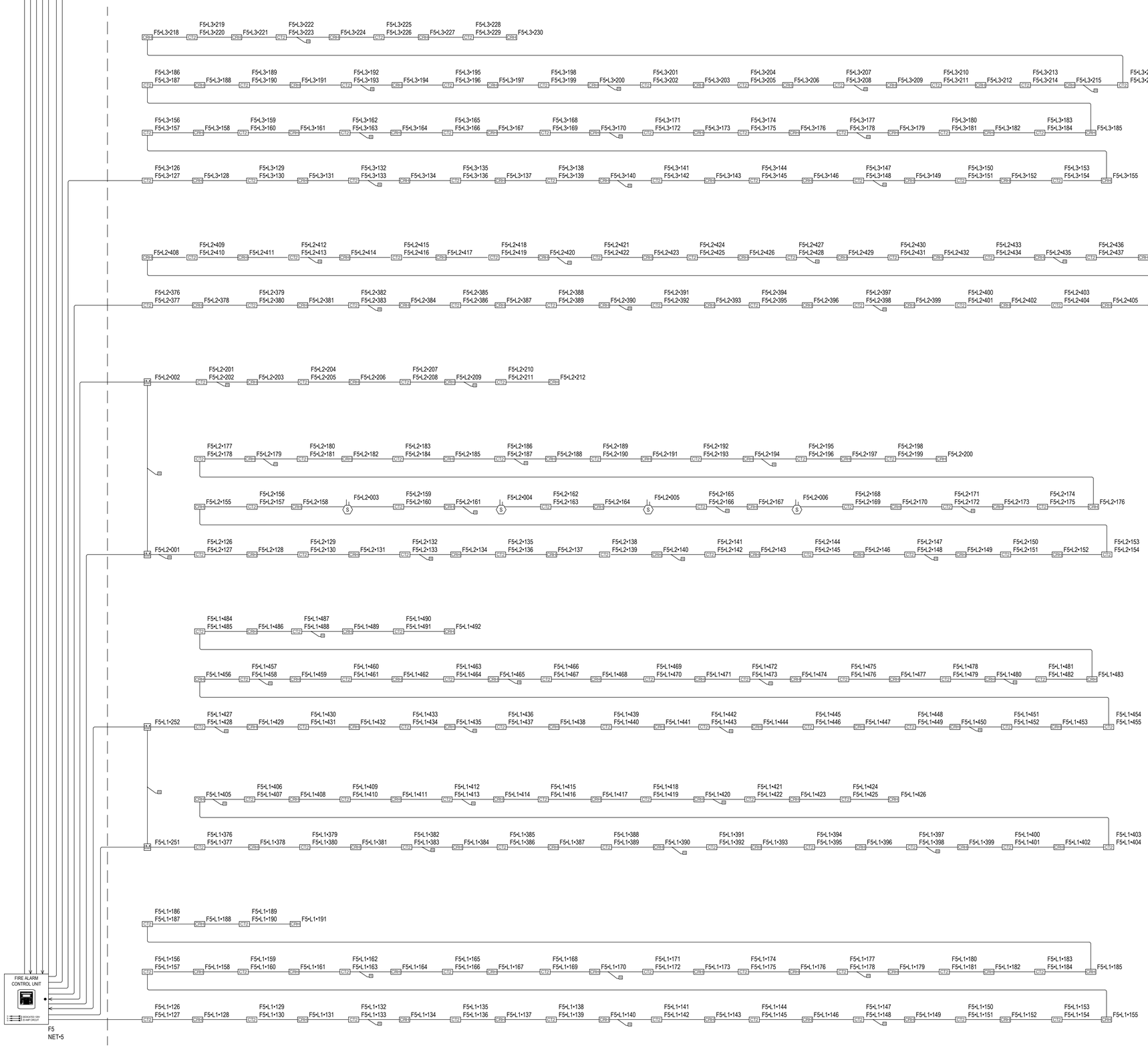
Project

Title

FIRE ALARM RISER DIAGRAM

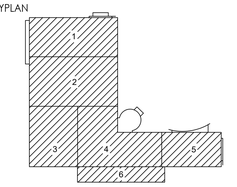
Building ID:	Floor Lev:
Scale: NTS	KP Proj. No.
Drwn By: LW	Stantec No.
Chckd By: VL	Sheet

H-FA023

ORIGINAL SHEET - ARCH E1

Consultant

Architect / Engineer of Record

KEYPLAN



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	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Agency Approval

DBHPO No. I23D010-43-00
INCREMENT 4 - I23D010-43-04

Facility

Project

Title

FIRE ALARM RISER DIAGRAM

Building ID:	Floor Lev:
Scale NTS	KP Proj. No.
Dwn By LW	Stantec No.
Chckd By VL	Sheet

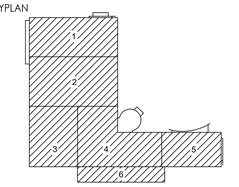
H-FA024

ORIGINAL SHEET - ARCH E1

Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
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Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd.

Agency Approval

DBHPO No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

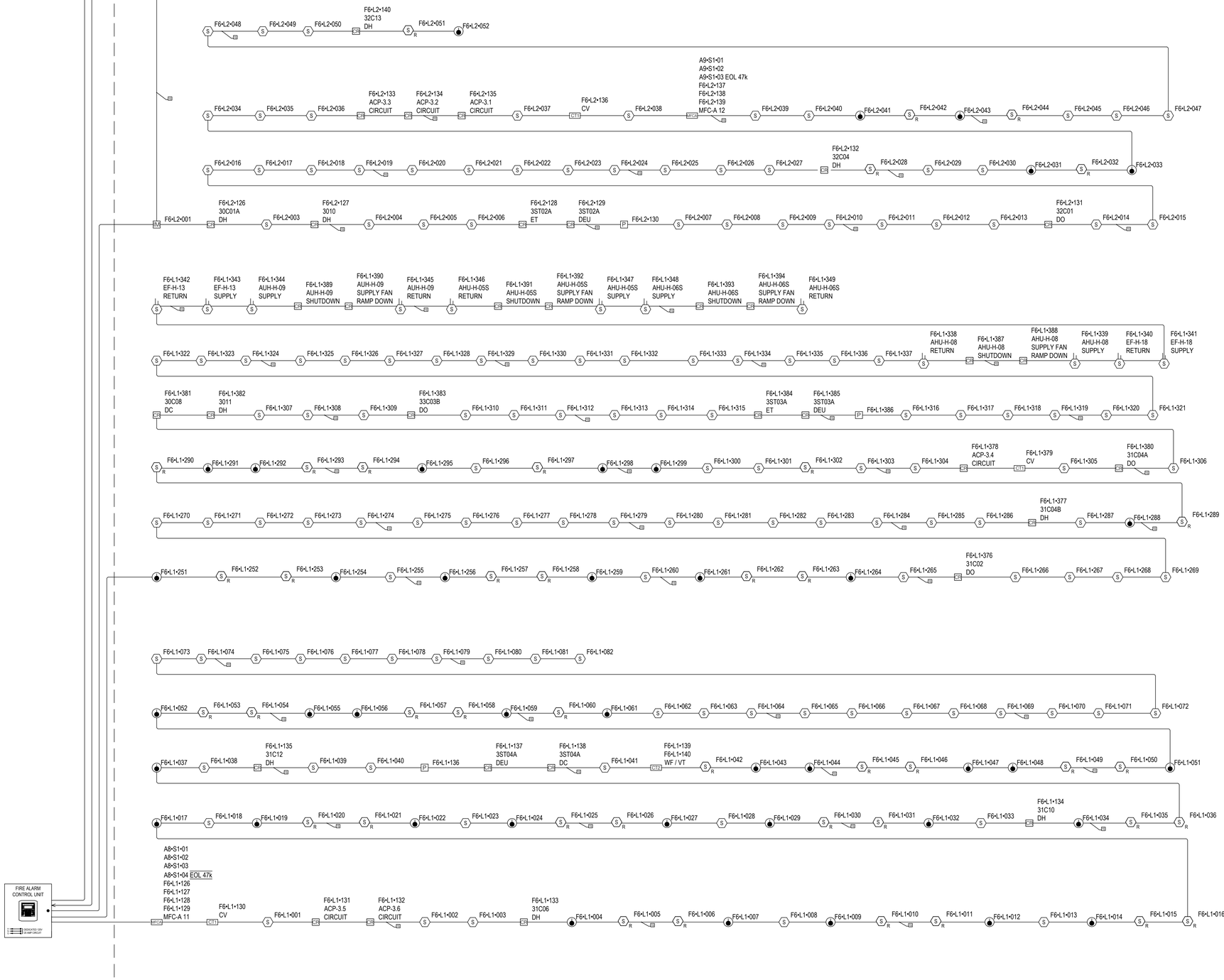
Project

Title

FIRE ALARM RISER DIAGRAM

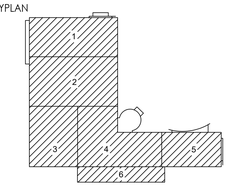
Building ID:	Floor Lev:
Scale NTS	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA025

ORIGINAL SHEET - ARCH E1

Consultant

Architect / Engineer of Record

KEYPLAN



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Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Agency Approval

OSHPD No. I2300010-43-00
INCREMENT 4 - I2300010-43-04

Facility

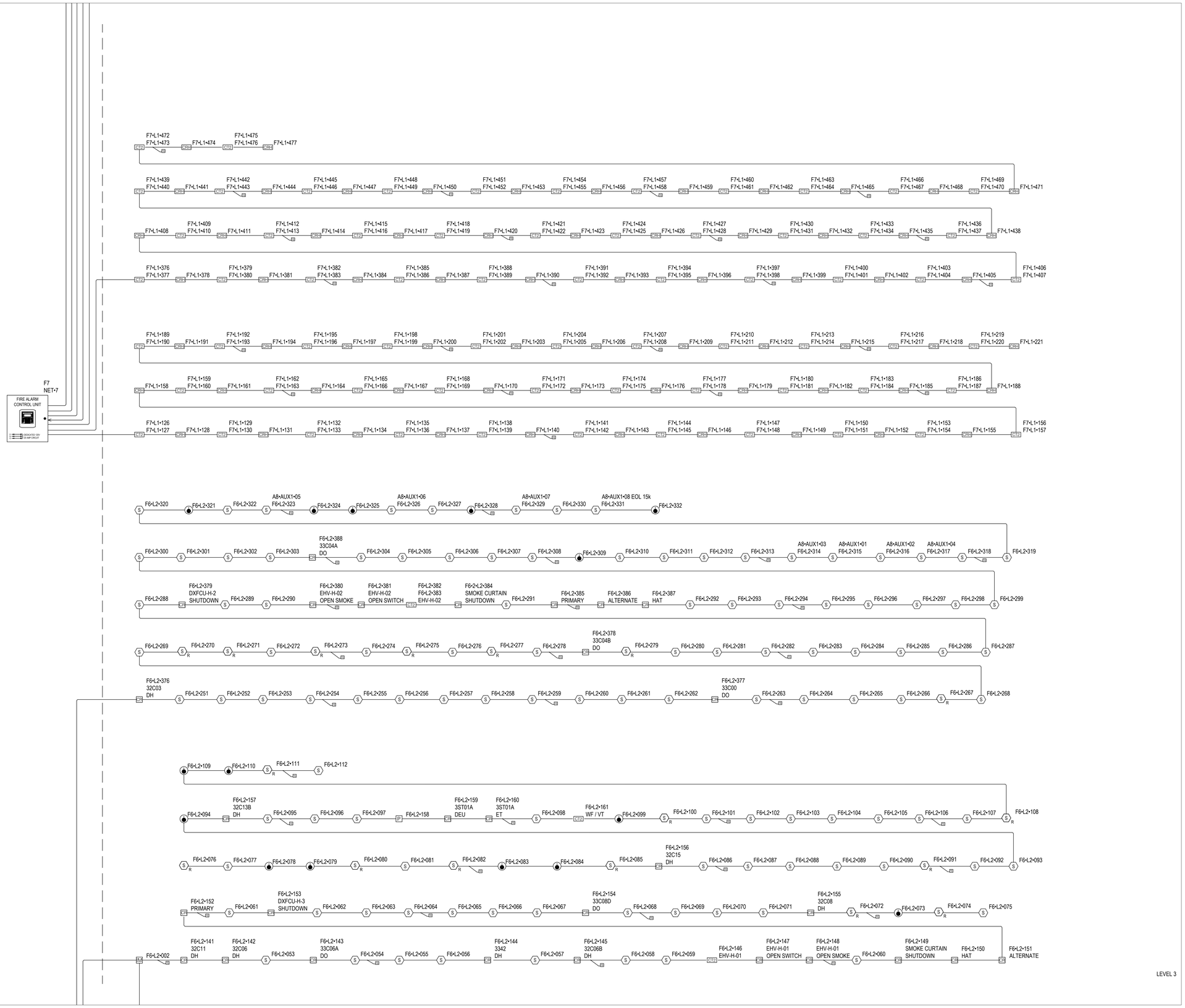
Project

Title

FIRE ALARM RISER DIAGRAM

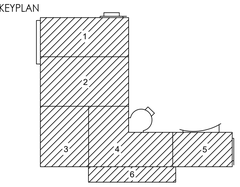
Building ID:	Floor Lev:
Scale: NTS	KP Proj. No.
Drwn By: LW	Stantec No.
Chckd By: VL	Sheet

H-FA026

ORIGINAL SHEET - ARCH E1

Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
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Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd.

Agency Approval

DSHPD No.: I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

Project

Title

FIRE ALARM RISER DIAGRAM

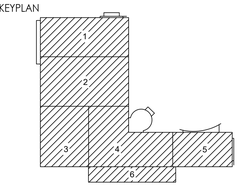
Building ID:		Floor Lev:	
Scale	NTS	KP Proj. No.	
Dwn By	LW	Stantec No.	
Chckd By	VL	Sheet	**H-FA027**

ORIGINAL SHEET - ARCH E1

Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
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Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd.

Agency Approval

CSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

Project

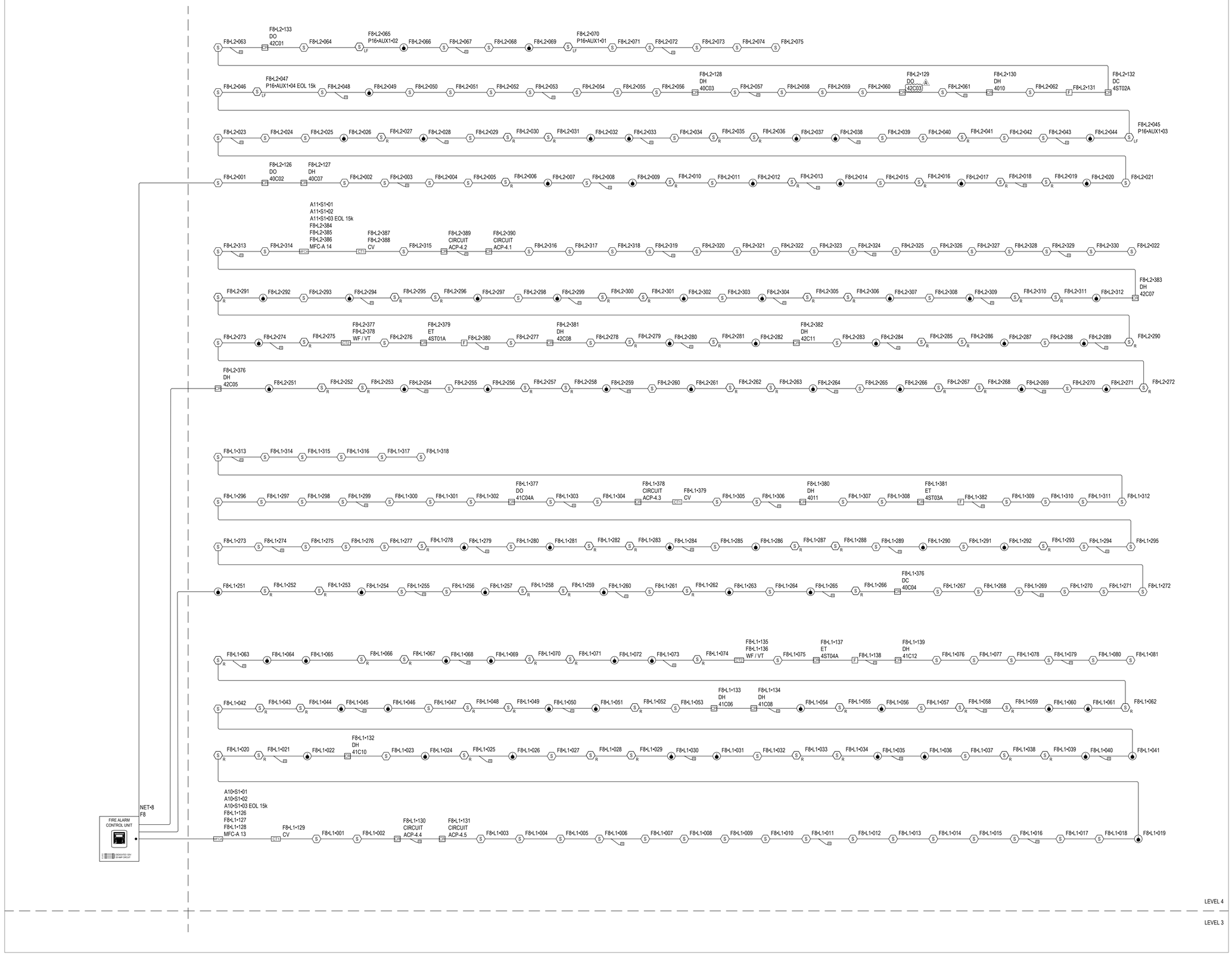
Title

FIRE ALARM RISER DIAGRAM

Building ID:		Floor Lev:
Scale	NTS	KP Proj. No.
Drwn By	LW	Stantec No.
Chckd By	VL	Sheet

H-FA028

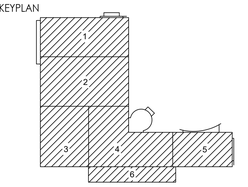
ORIGINAL SHEET - ARCH E1



Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
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Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Agency Approval

OSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

Project

Title

FIRE ALARM RISER DIAGRAM

Building ID: Floor Lev:

Scale NTS

Drwn By LW

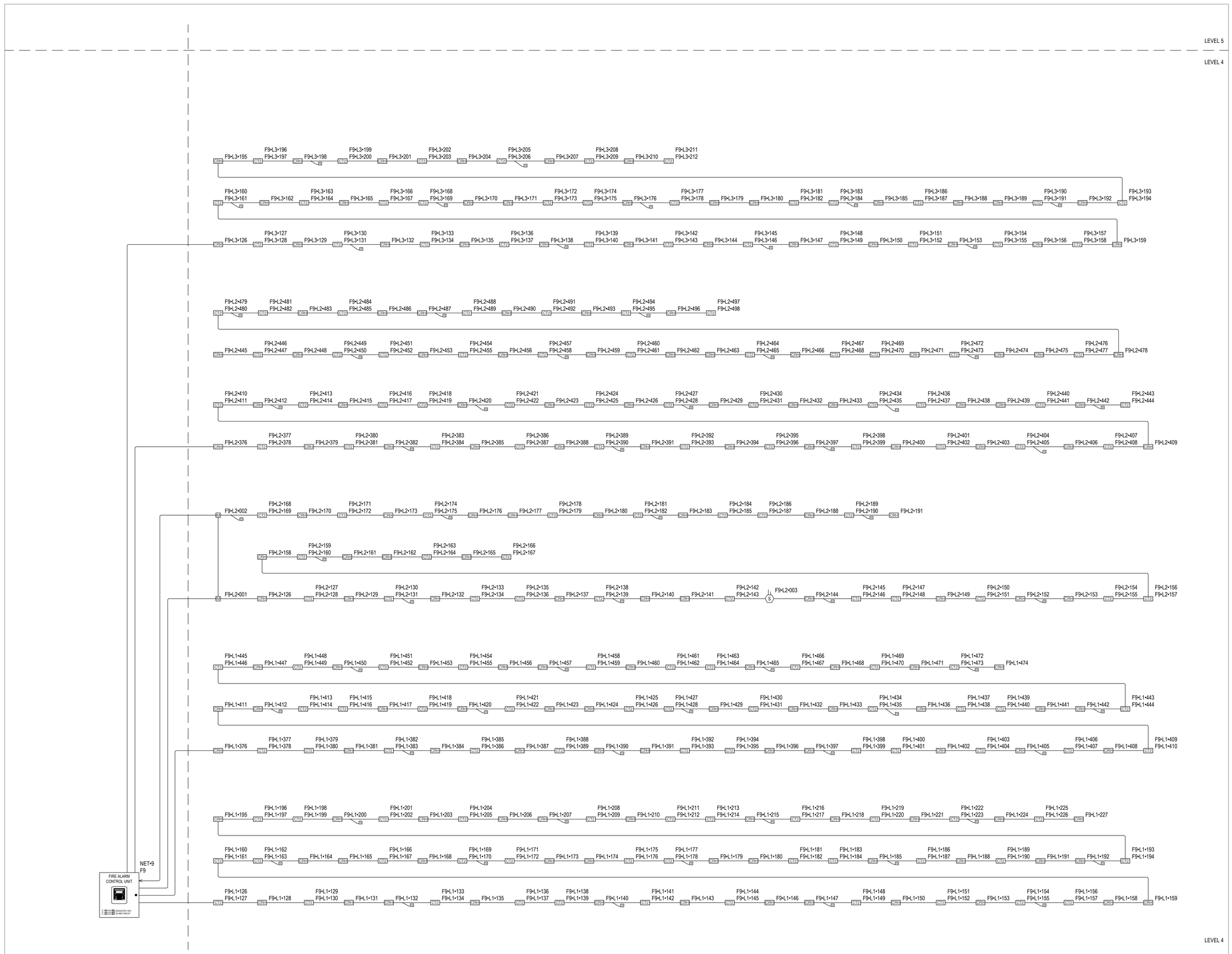
Chckd By VL

KP Proj. No.

Stantec No.

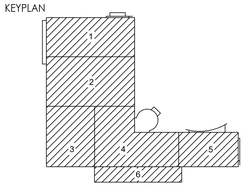
Sheet

H-FA029

ORIGINAL SHEET - ARCH E1

Consultant

Architect / Engineer of Record

KEYPLAN



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Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd.

Agency Approval

OSHPD No. I230010-43-00

INCREMENT 4 - I230010-43-04

Facility

Project

Title

FIRE ALARM RISER DIAGRAM

Building ID: Floor Lev:

Scale NTS

Dwn By LW

Chckd By VL

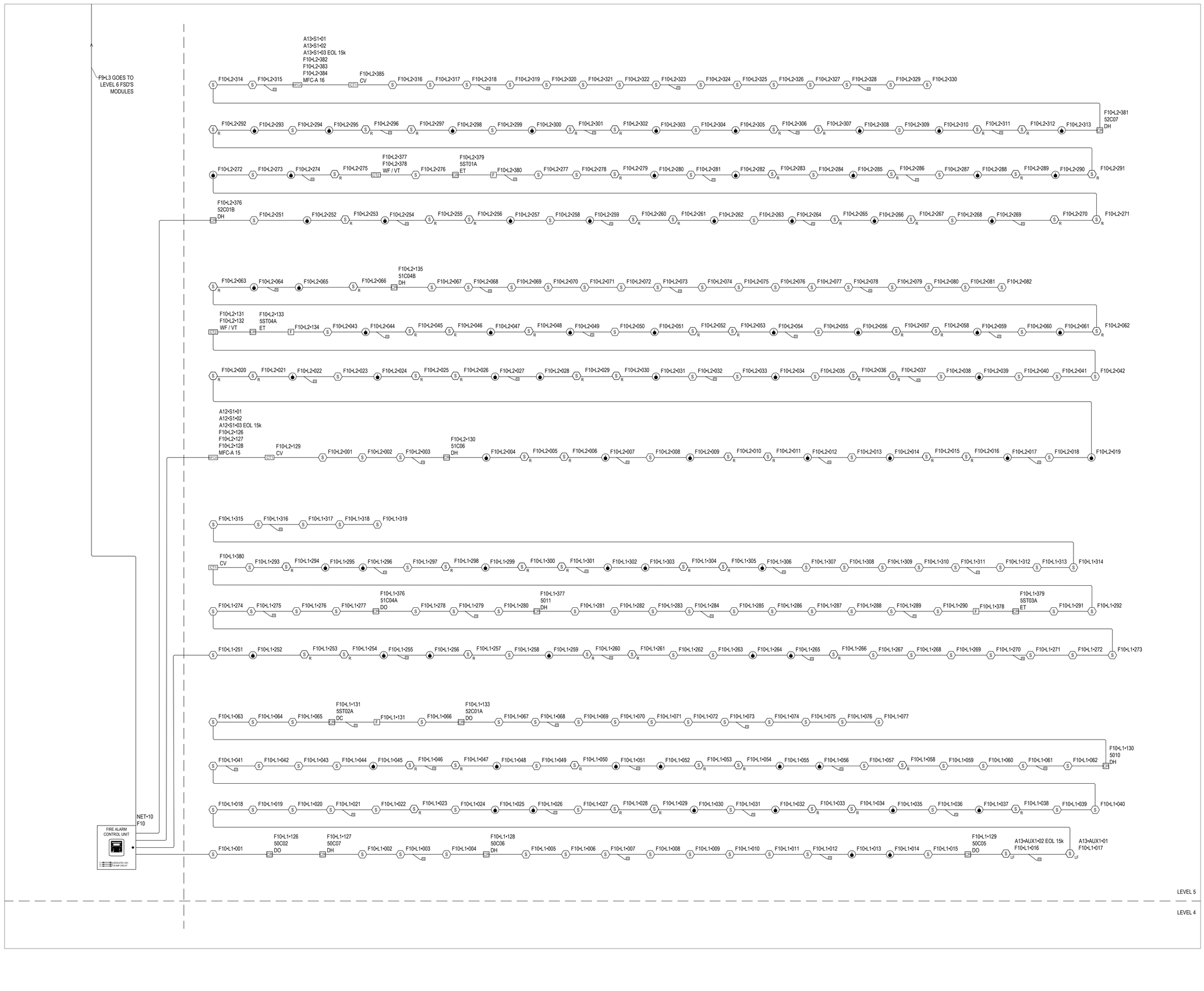
KP Proj. No.

Stantec No.

Sheet

H-FA030

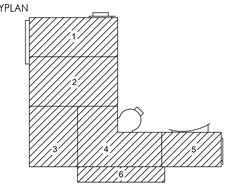
ORIGINAL SHEET - ARCH E1



Consultant

Architect / Engineer of Record

KEYPLAN



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	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued

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Agency Approval

OSHPD No. 1230010-43-00
INCREMENT 4 - 1230010-43-04

Facility

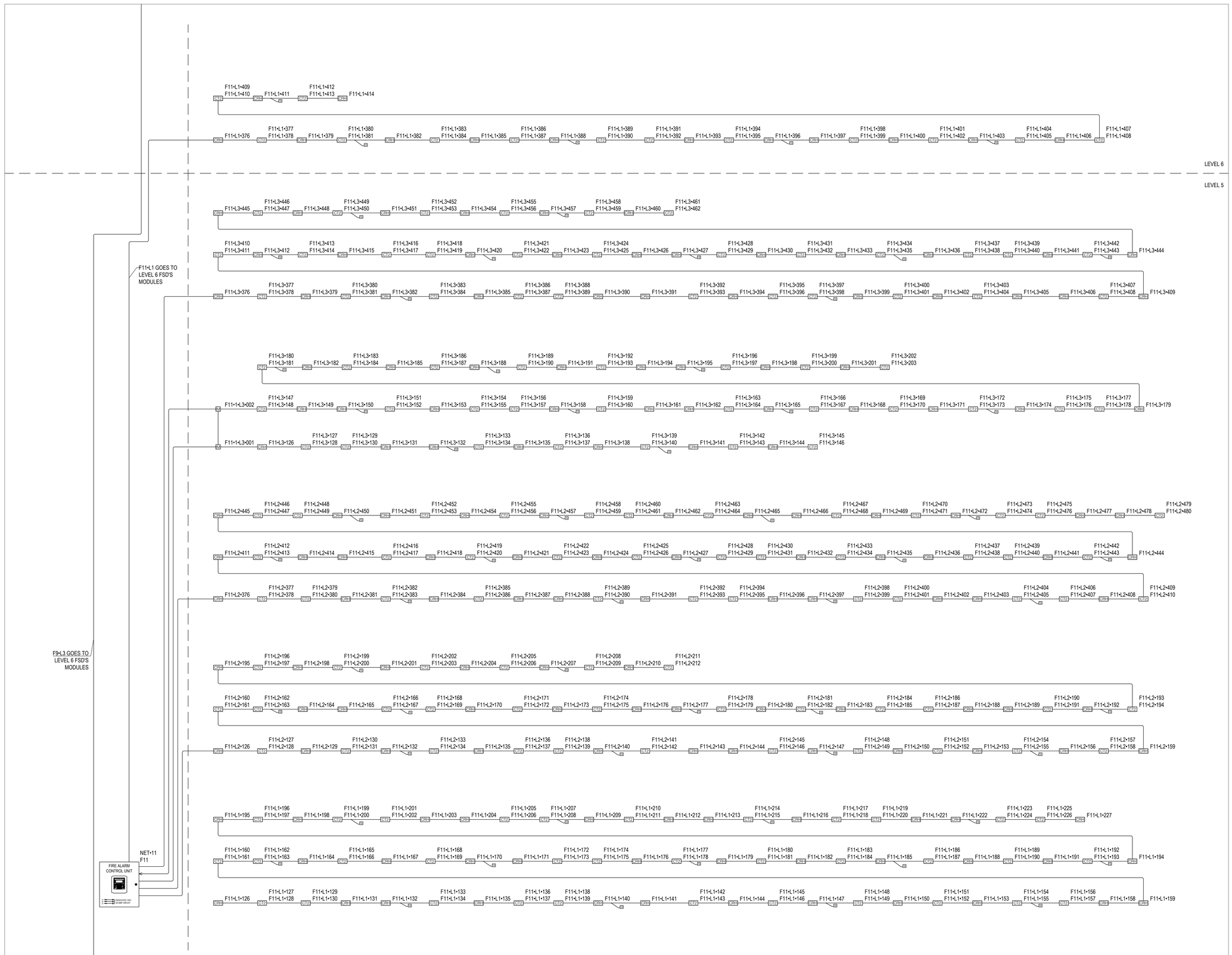
Project

Title

FIRE ALARM RISER DIAGRAM

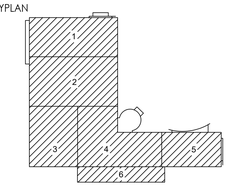
Building ID:	Floor Lev:
Scale NTS	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA031

ORIGINAL SHEET - ARCH E1

Consultant

Architect / Engineer of Record

KEYPLAN



Revision

	By	Appd	YYYY.MM.DD
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	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd.

Agency Approval

OSHPD No. I230010-43-00

INCREMENT 4 - I230010-43-04

Facility

Project

Title

FIRE ALARM RISER DIAGRAM

Building ID: Floor Lev:

Scale NTS

Dwn By LW

Chckd By VL

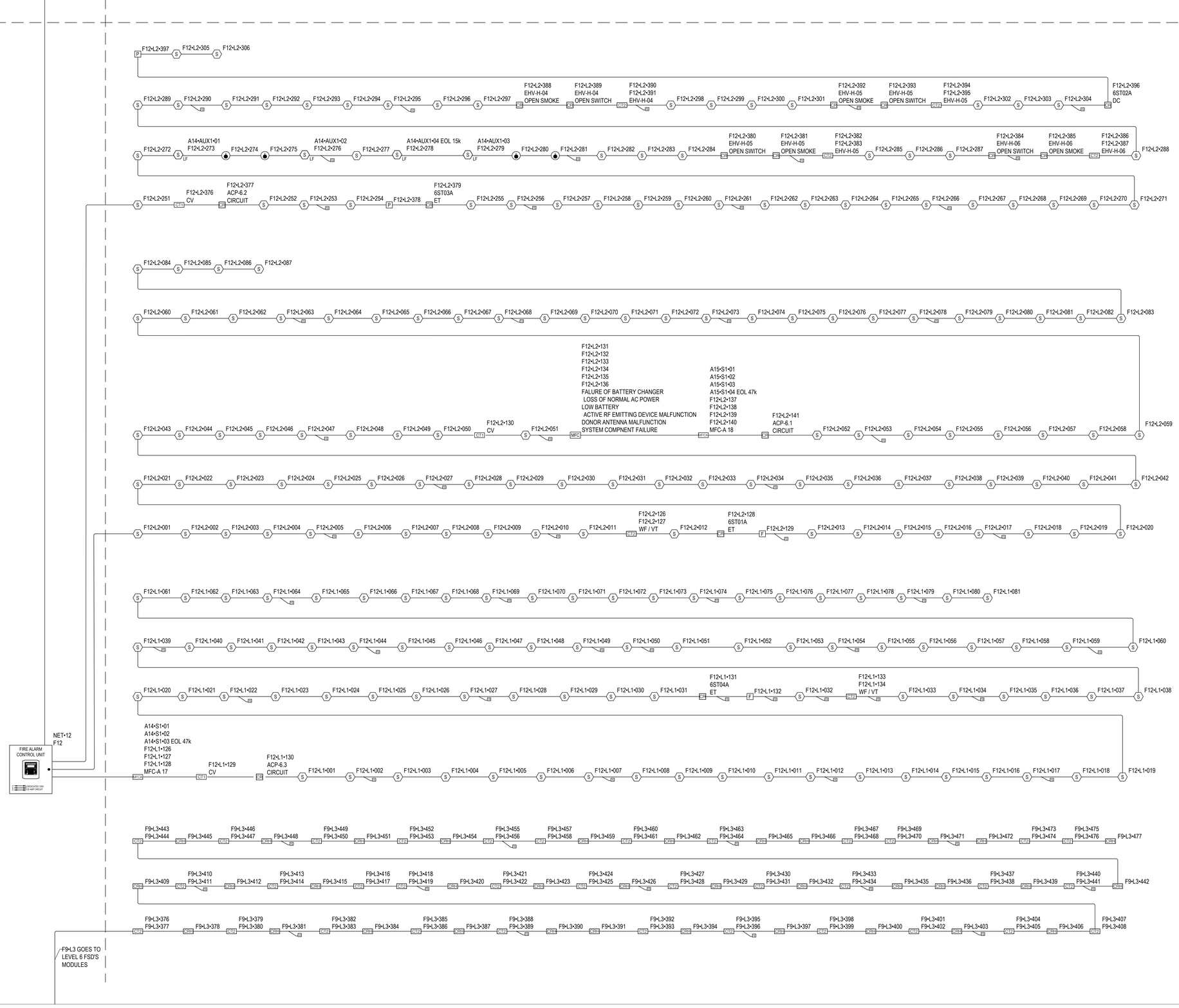
KP Proj. No.

Stantec No.

Sheet

H-FA032

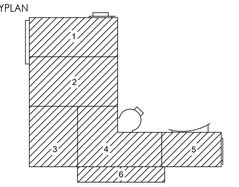
ORIGINAL SHEET - ARCH E1



Consultant

Architect / Engineer of Record

KEYPLAN



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Agency Approval

OSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

Project

Title

FIRE ALARM RISER DIAGRAM

Building ID		Floor Lev.	
Scale	NTS	KP Proj. No.	
Drwn By	LW	Stantec No.	
Chckd By	VL	Sheet	**H-FA033**

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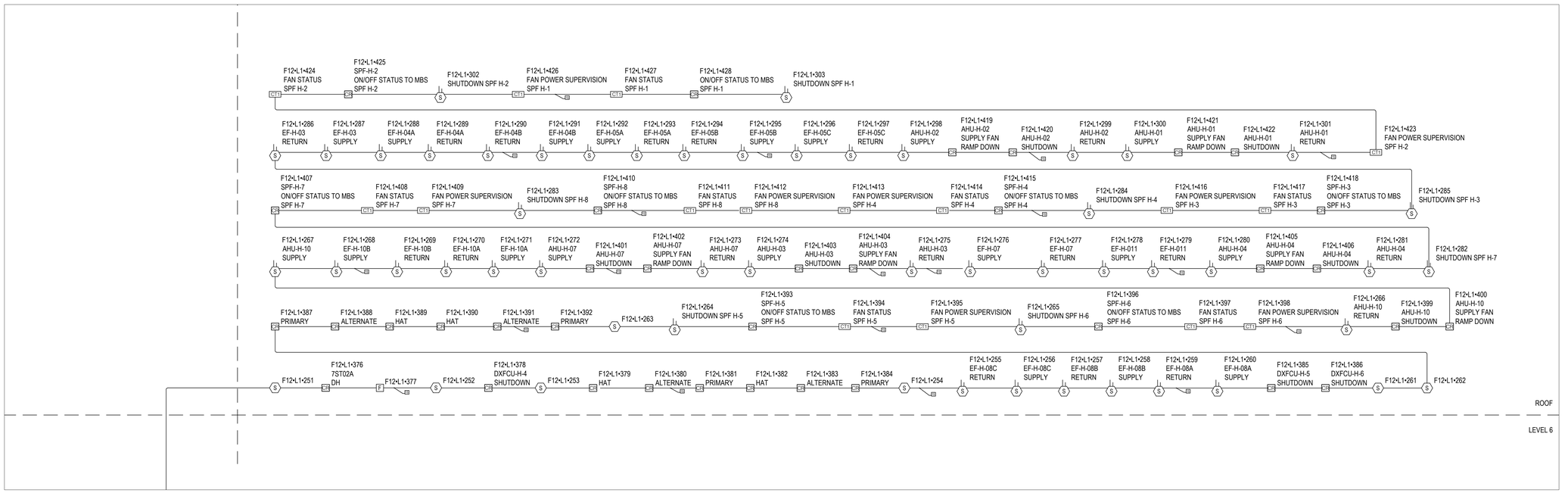
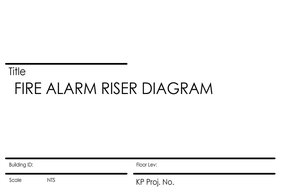


Consultant

Architect / Engineer of Record

KEYPLAN



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Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Agency Approval

OSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

Project

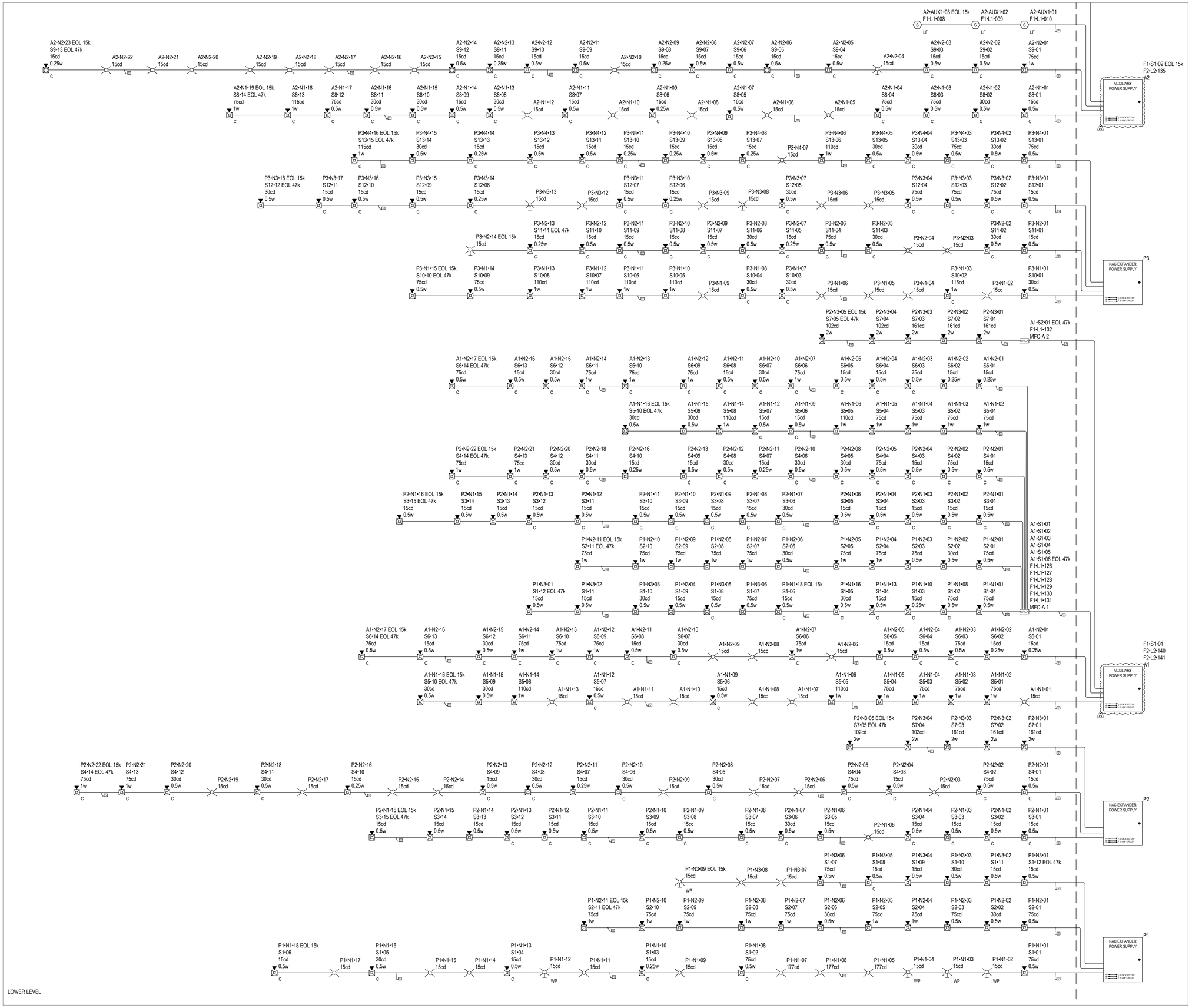
Title

FIRE ALARM RISER DIAGRAM

Building ID:	Floor Lev.:
Scale NTS	KP Proj. No.
Dwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA034

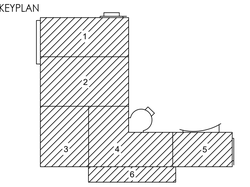
ORIGINAL SHEET - ARCH E1



Consultant

Architect / Engineer of Record

KEYPLAN



Revision

	By	Appd	YYYY.MM.DD
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Issued

Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Agency Approval

OSHPD No. 1230010-43-00
INCREMENT 4 - 1230010-43-04

Facility

Project

Title

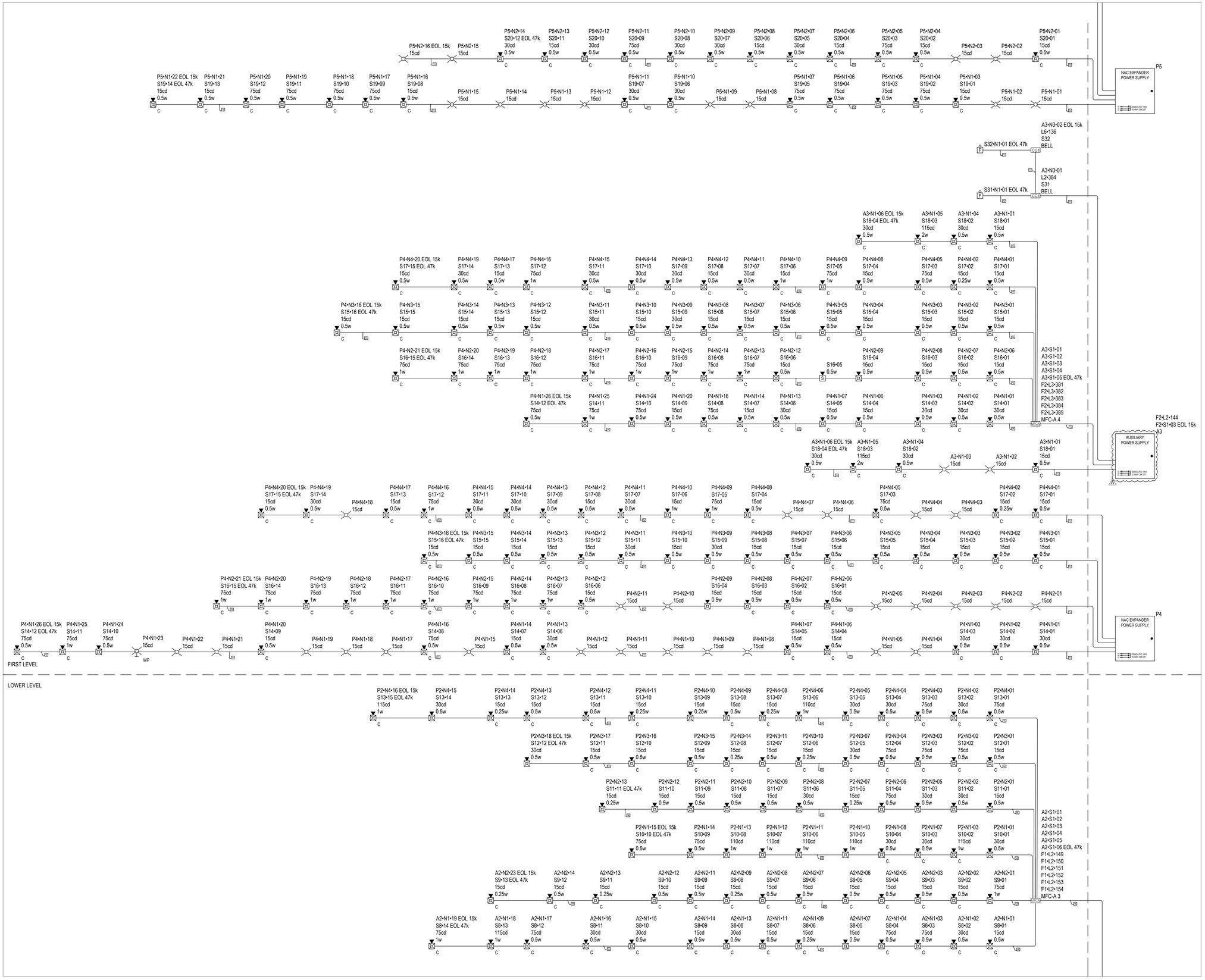
FIRE ALARM RISER DIAGRAM

Building ID	Floor Lev.
Scale NTS	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	

Sheet

H-FA035

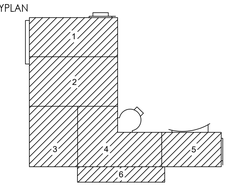
ORIGINAL SHEET - ARCH E1



Consultant

Architect / Engineer of Record

KEYPLAN



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Facility

Project

Title

FIRE ALARM RISER DIAGRAM

Building ID:

Floor Lev:

Scale NTS

Drwn By LW

Chckd By VL

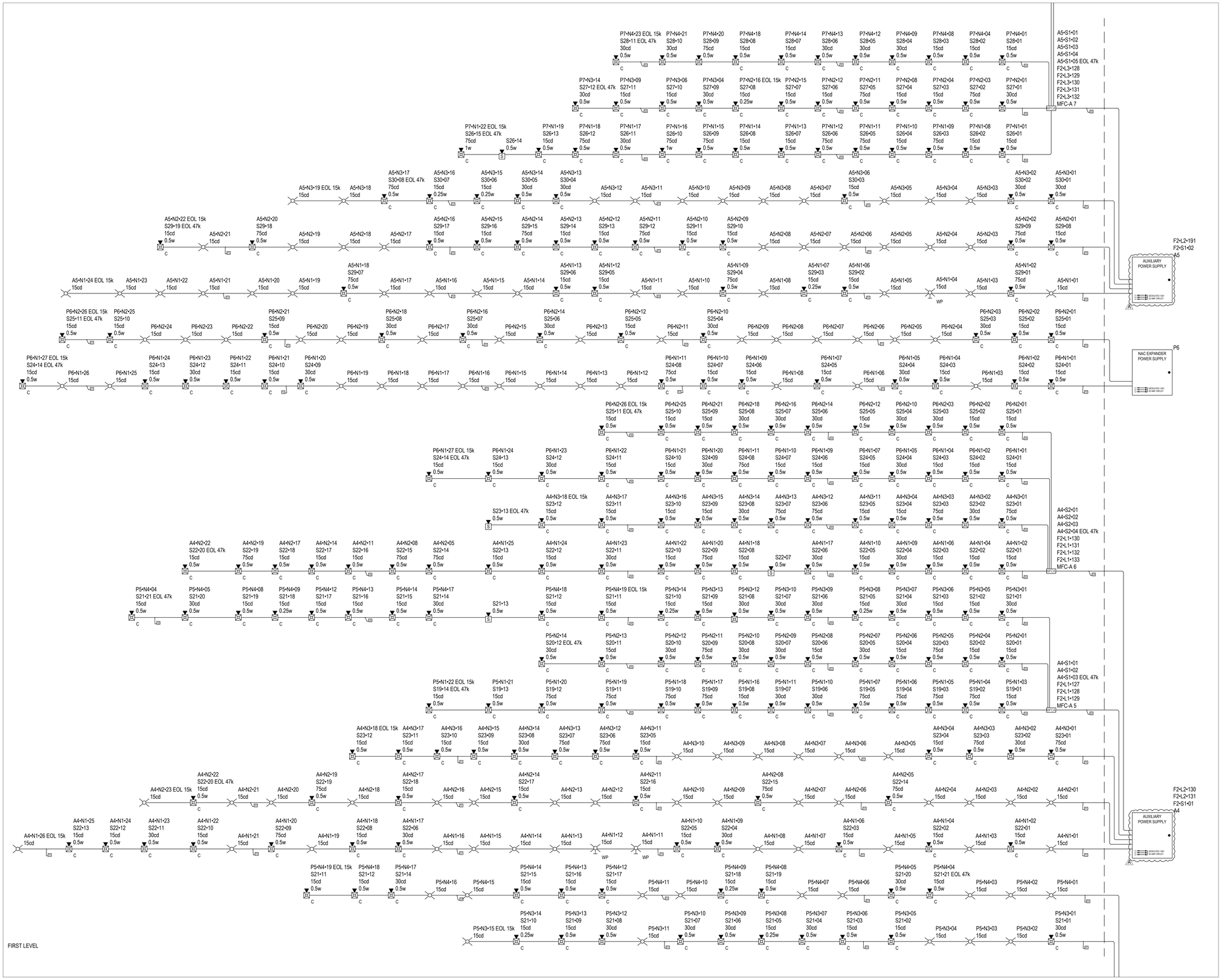
KP Proj. No.

Stantec No.

Sheet

H-FA036

ORIGINAL SHEET - ARCH E1



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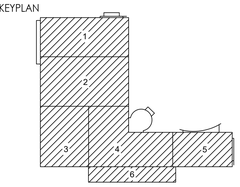

Consultant

Architect / Engineer of Record

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Agency Approval

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INCREMENT 4 - I230010-43-04

Facility

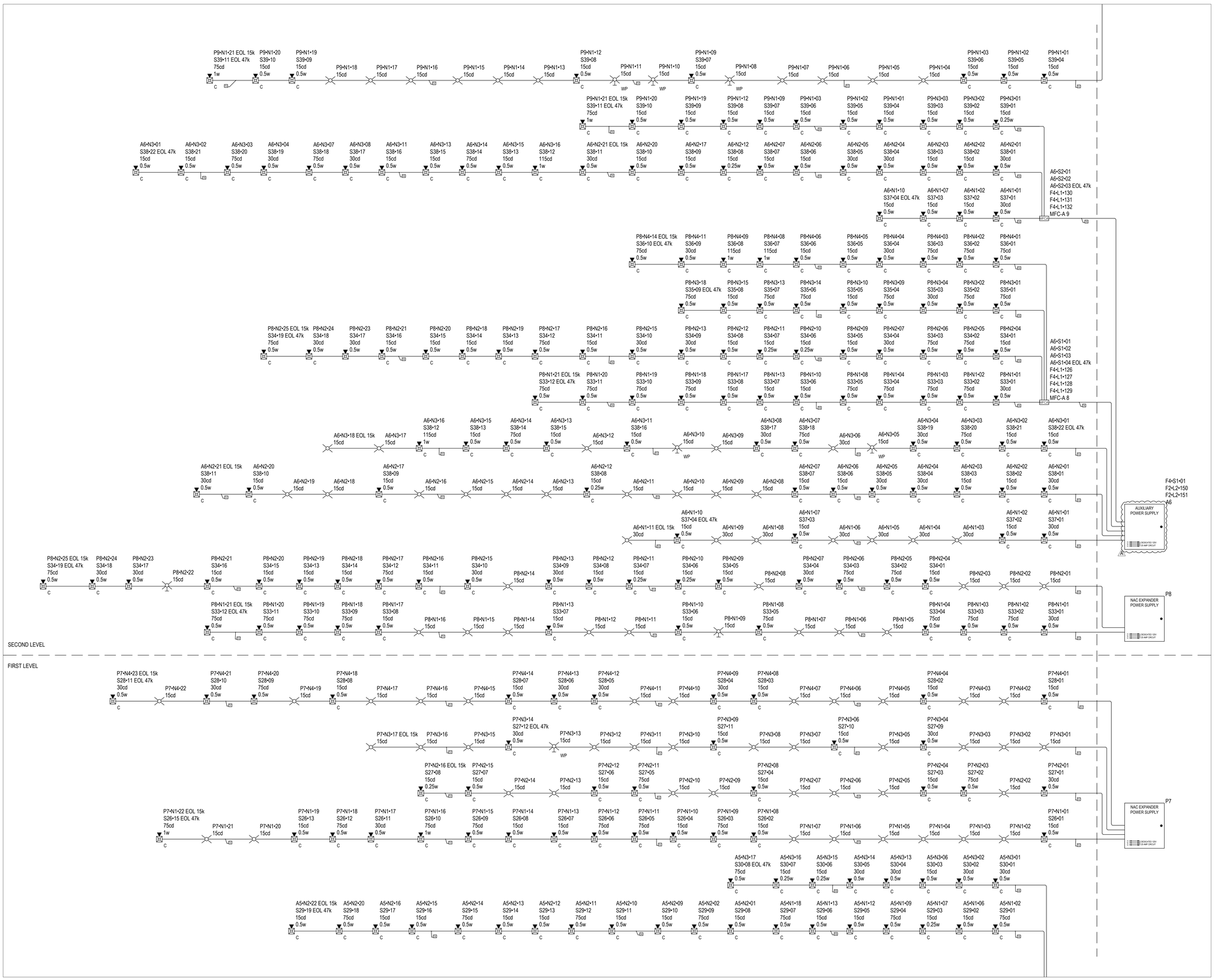
Project

Title

FIRE ALARM RISER DIAGRAM

Building ID:	Floor Lev:
Scale NTS	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet **H-FA037**

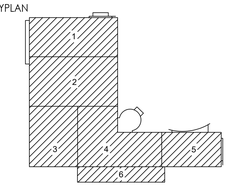
ORIGINAL SHEET - ARCH E1



Consultant

Architect / Engineer of Record

KEYPLAN



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	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Agency Approval

OSHPD No. 1230010-43-00
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Facility

Project

Title

FIRE ALARM RISER DIAGRAM

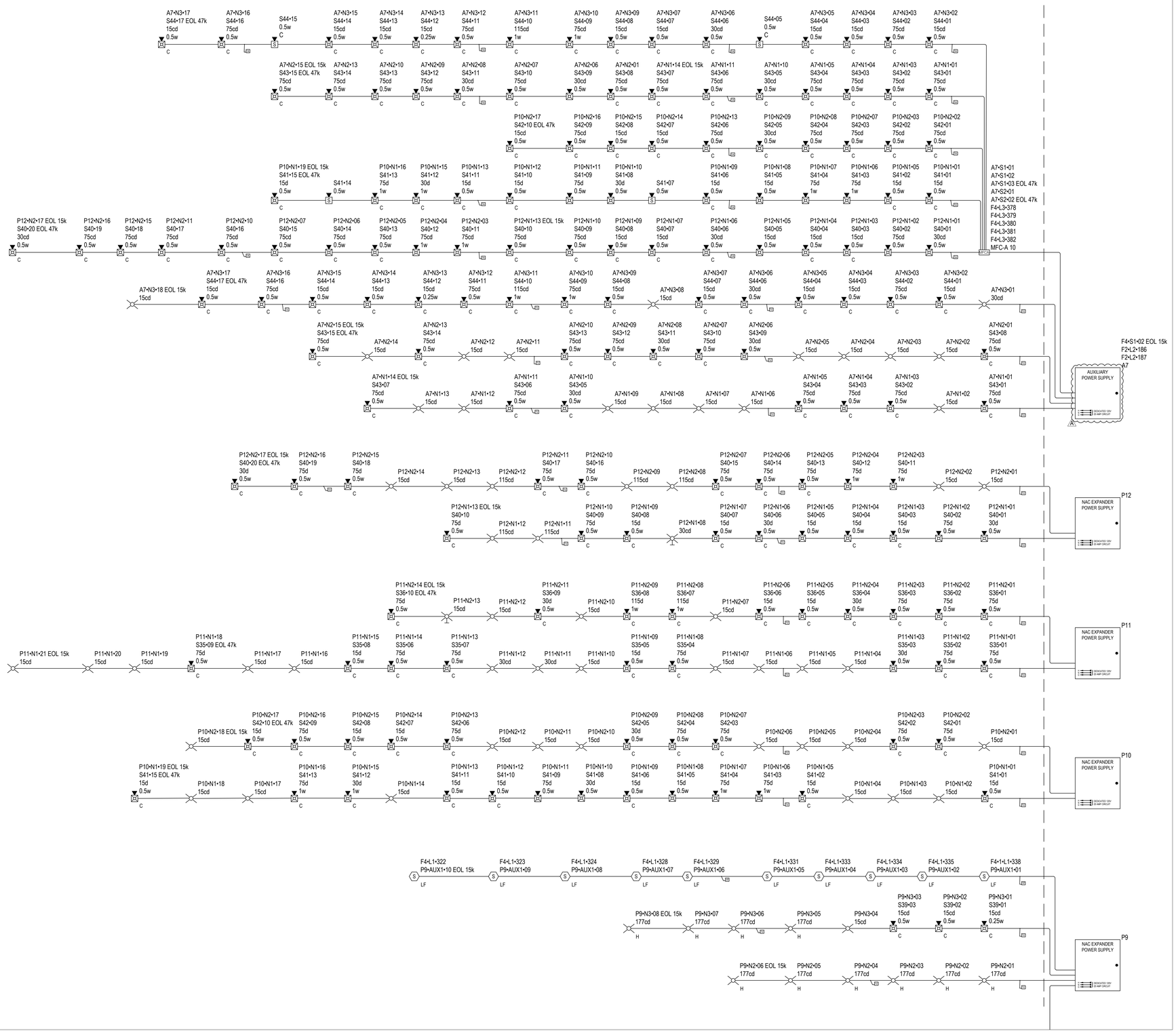
Building ID: Floor Lev:
Scale NTS KP Proj. No.
Drwn By LW Stantec No.
Chckd By VL

Sheet

H-FA038

ORIGINAL SHEET - ARCH E1

SECOND LEVEL



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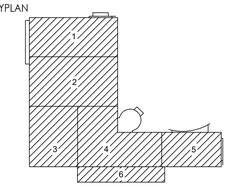

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Facility

Project

Title

FIRE ALARM RISER DIAGRAM

Building ID

Floor Lev.

Scale NTS

KP Proj. No.

Drwn By LW

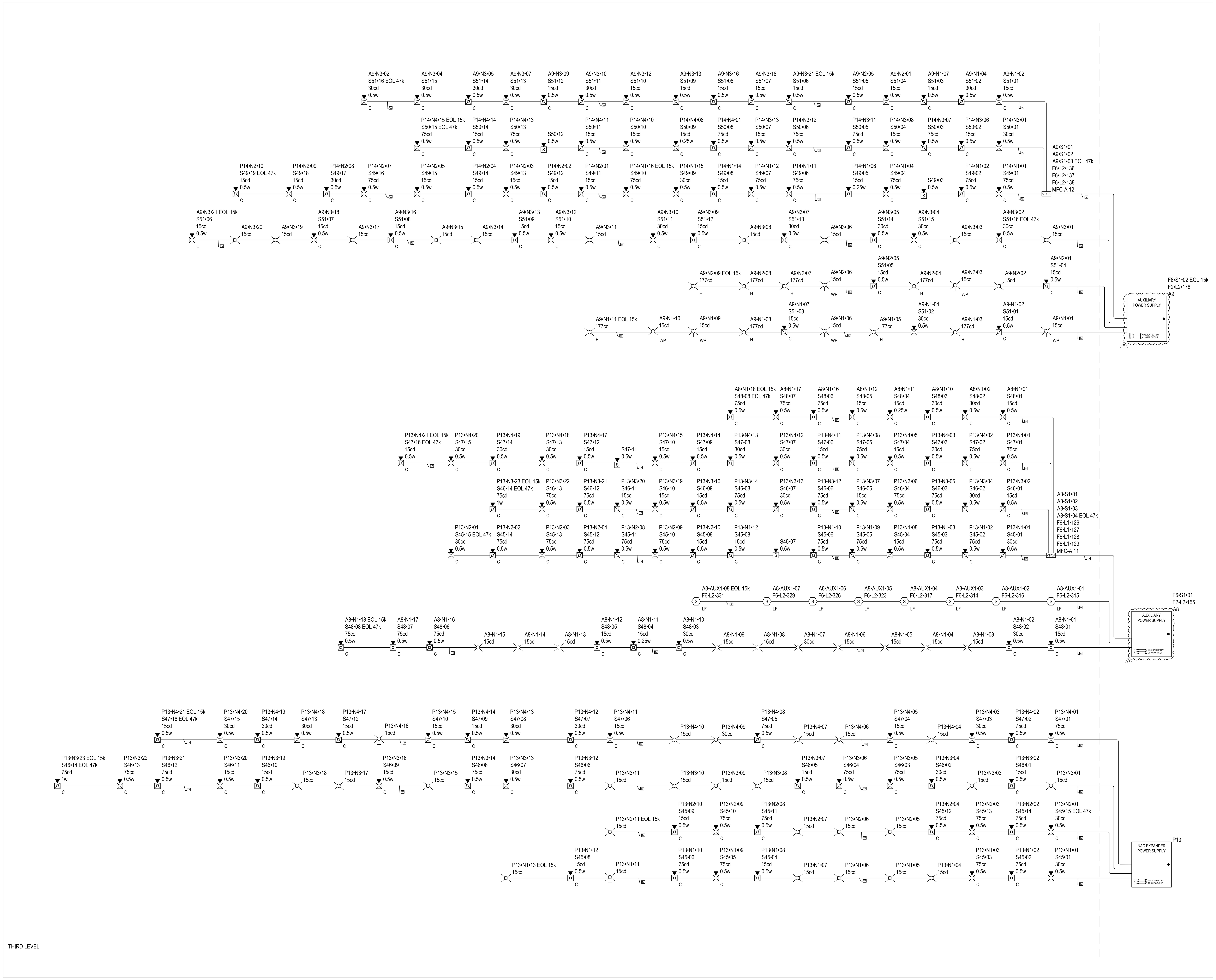
Stantec No.

Chckd By VL

Sheet

H-FA039

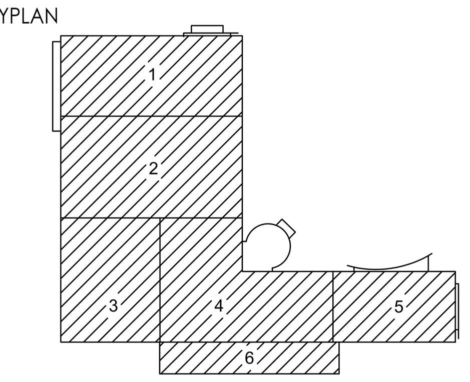
ORIGINAL SHEET - ARCH E1



Consultant

Architect / Engineer of Record

KEYPLAN



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	Dwn. Dsgn.	Chkd.	YYYY.MM.DD

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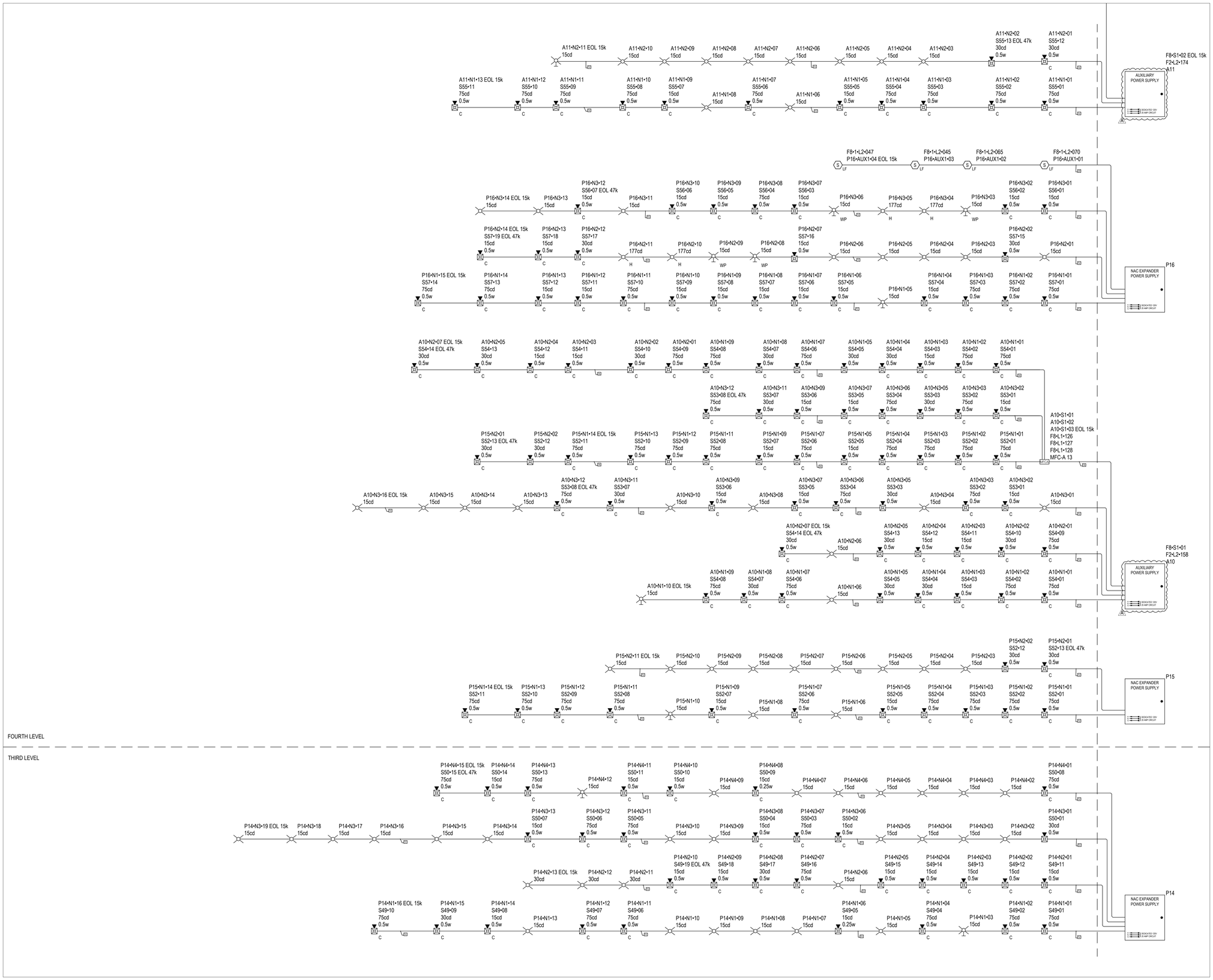
Facility

Project

Title
FIRE ALARM RISER DIAGRAM

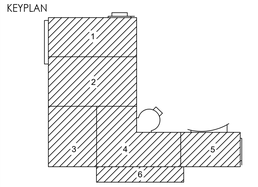
Building ID: Floor Lev:
Scale NTS
Drwn By LW
Chckd By VL
KP Proj. No.
Stantec No.
Sheet
H-FA040



Consultant

Architect / Engineer of Record

KEYPLAN



Revision

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Facility

Project

Title

FIRE ALARM RISER DIAGRAM

Building ID:

Floor Lev:

Scale NTS

Drwn By LW

Chckd By VL

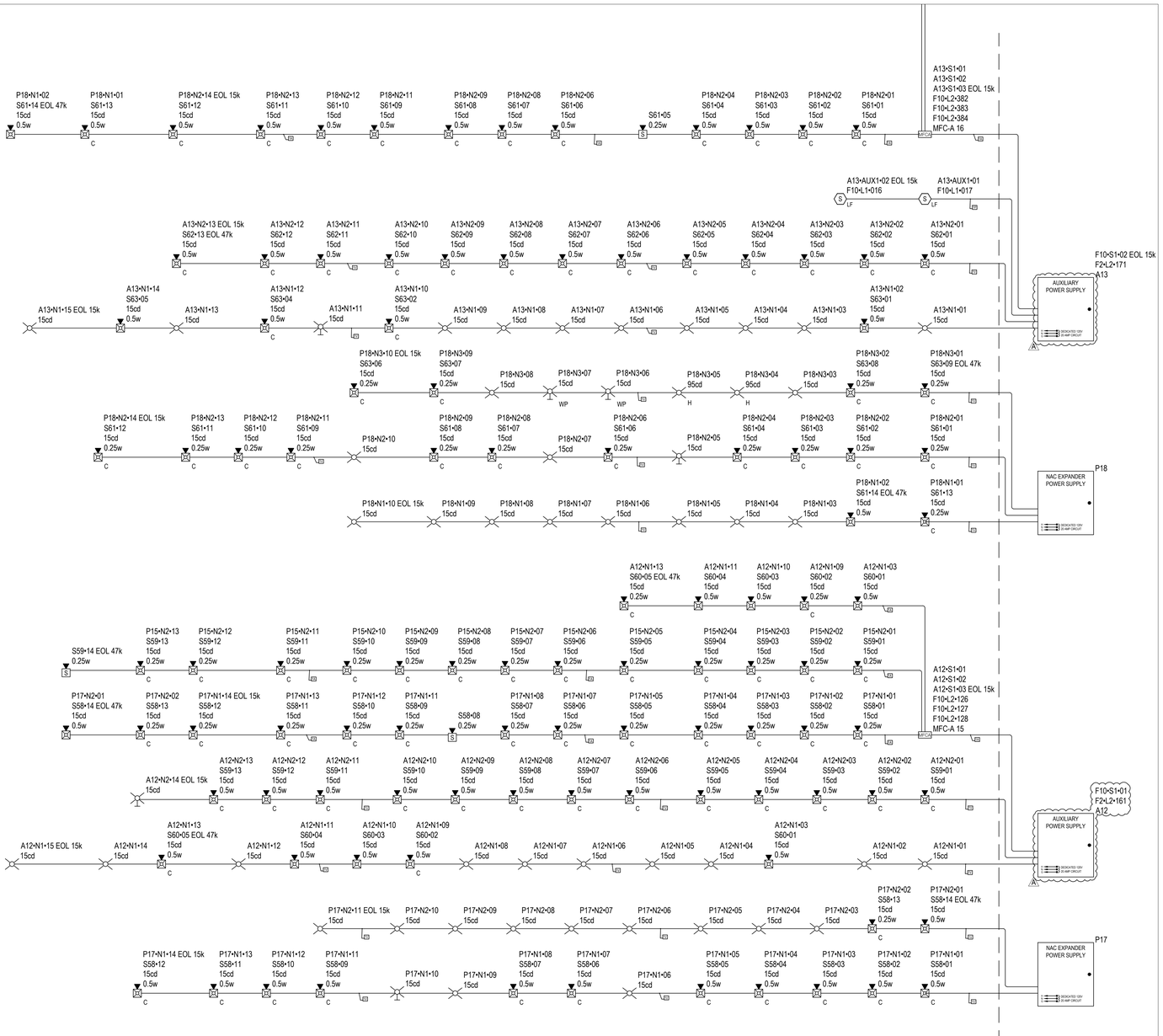
KP Proj. No.

Stantec No.

Sheet

H-FA041

ORIGINAL SHEET - ARCH E1



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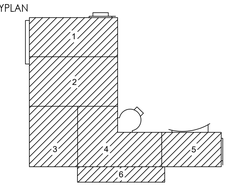

Consultant

Architect / Engineer of Record

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Facility

Project

Title

FIRE ALARM RISER DIAGRAM

Building ID

Floor Lev.

Scale NTS

KP Proj. No.

Drwn By LW

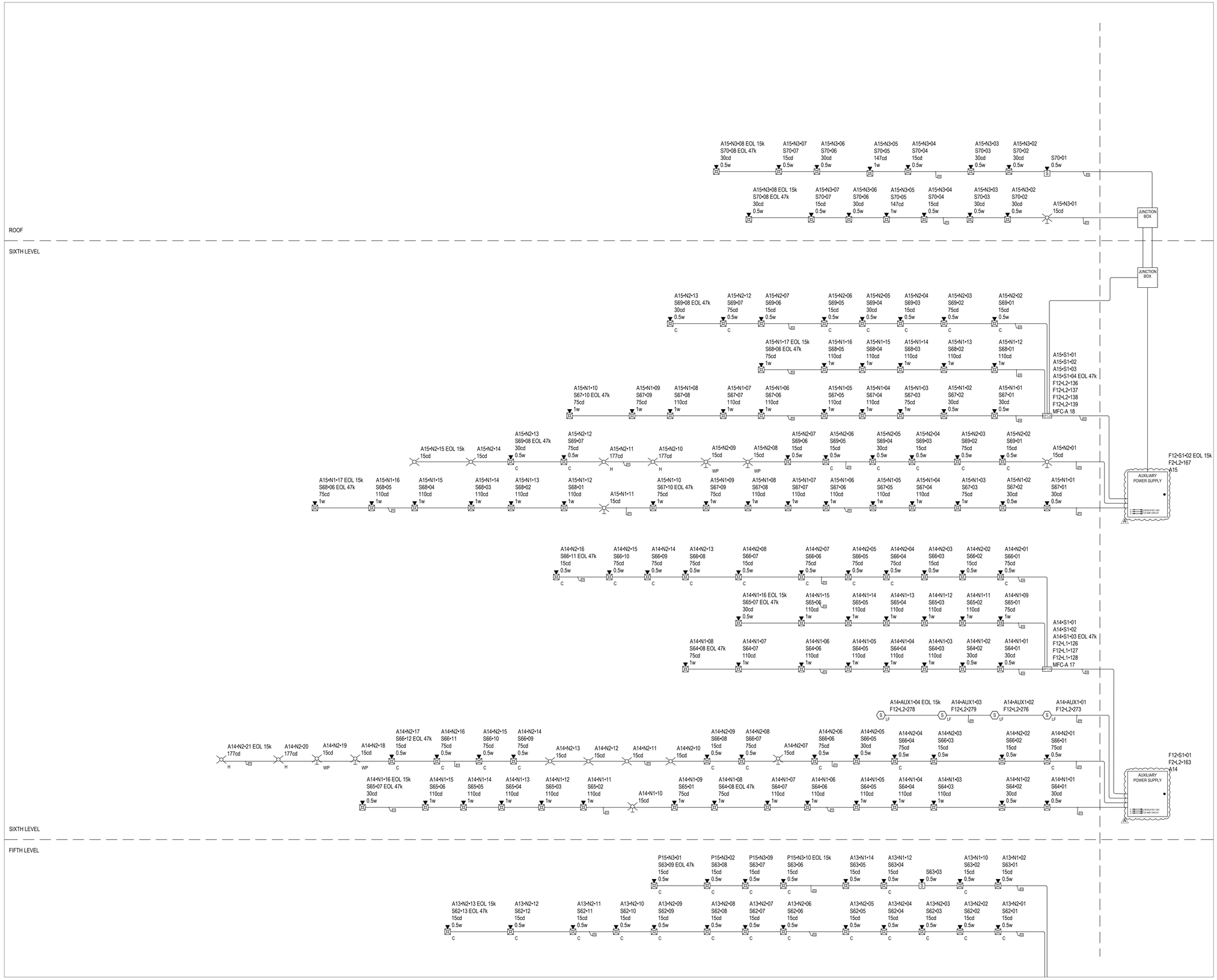
Stantec No.

Chckd By VL

Sheet

H-FA042

ORIGINAL SHEET - ARCH E1



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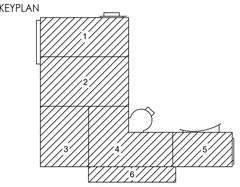

Consultant

Architect / Engineer of Record

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Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Agency Approval

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Facility

Project

Title

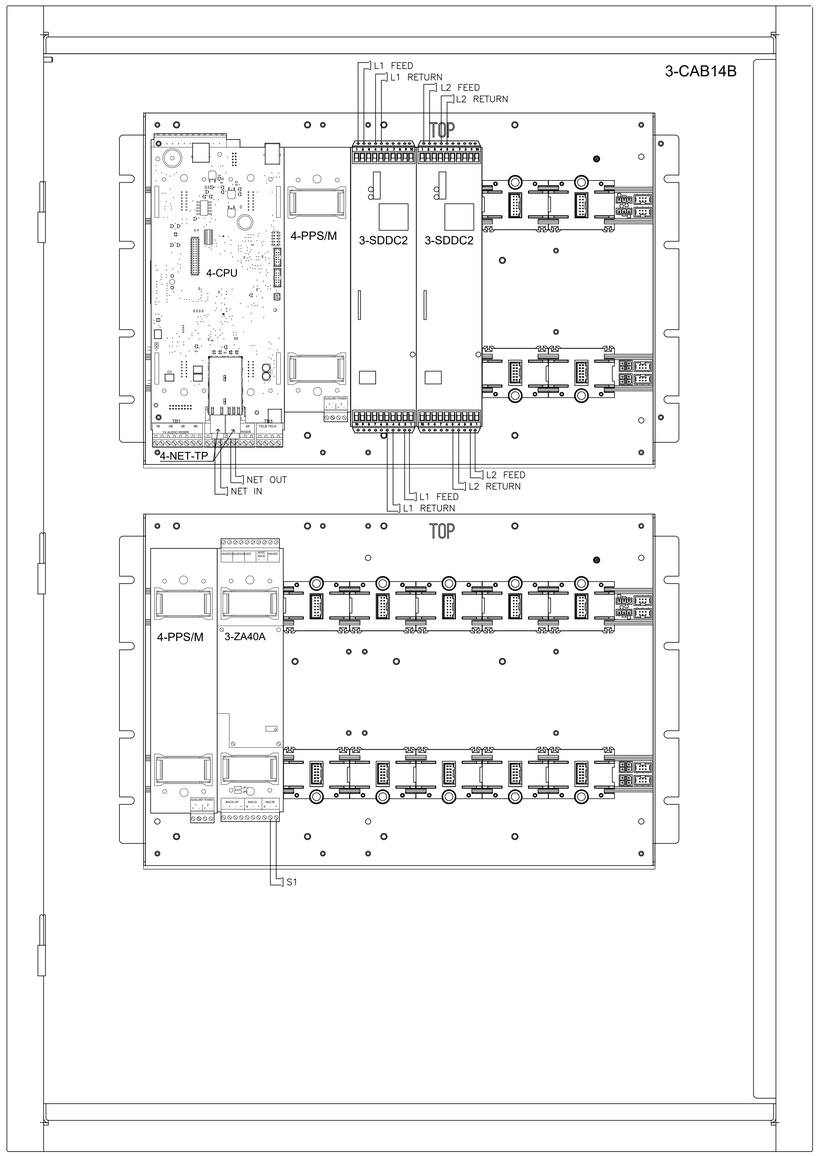
FIRE ALARM RISER DIAGRAM

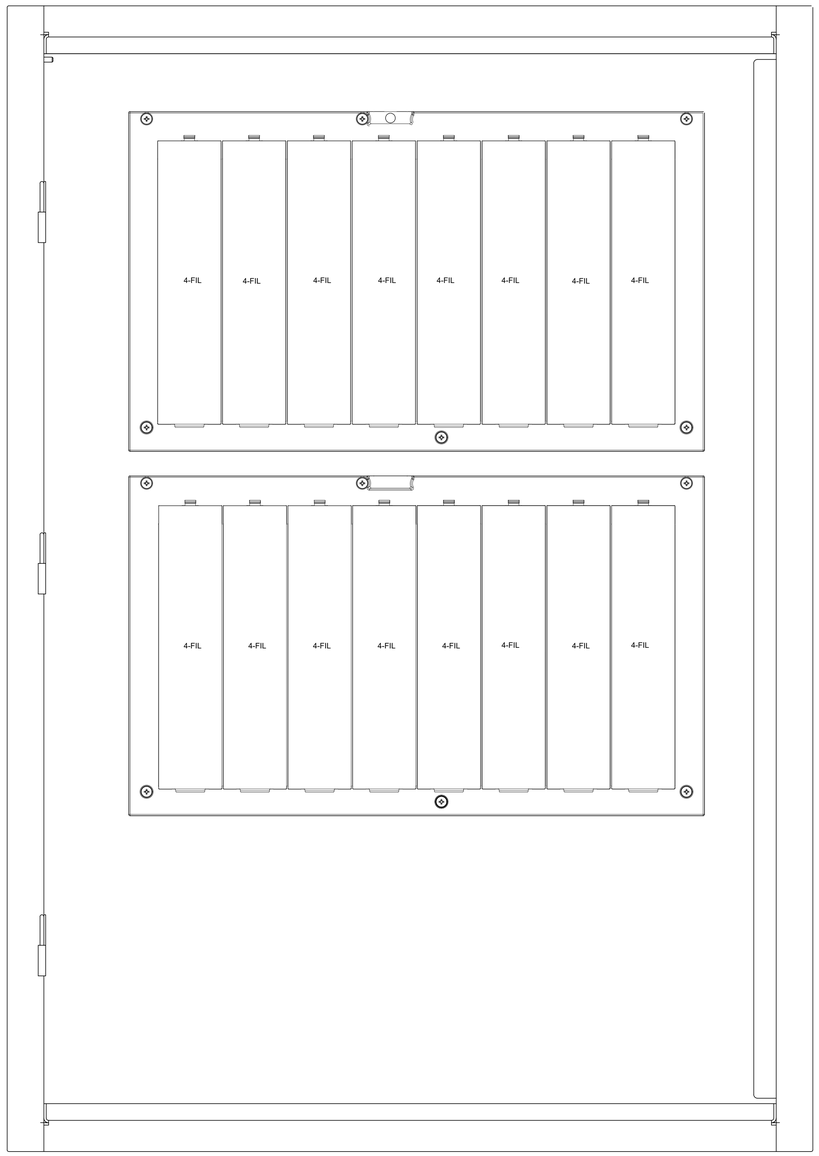
Building ID
Floor Lev.
Scale NTS
Dwn By LW
Chckd By VL
KP Proj. No.
Stantec No.

Sheet

H-FA043

ORIGINAL SHEET - ARCH E1





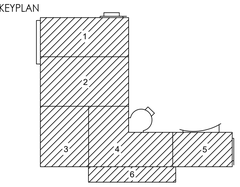
F1/F6/F8/F10/F12 / EST4 FIRE ALARM CONTROL PANEL WIRING

NOT TO SCALE

Consultant

Architect / Engineer of Record

KEYPLAN



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	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Agency Approval

OSHPD No. 123010-43-00
INCREMENT 4 - 123010-43-04

Facility

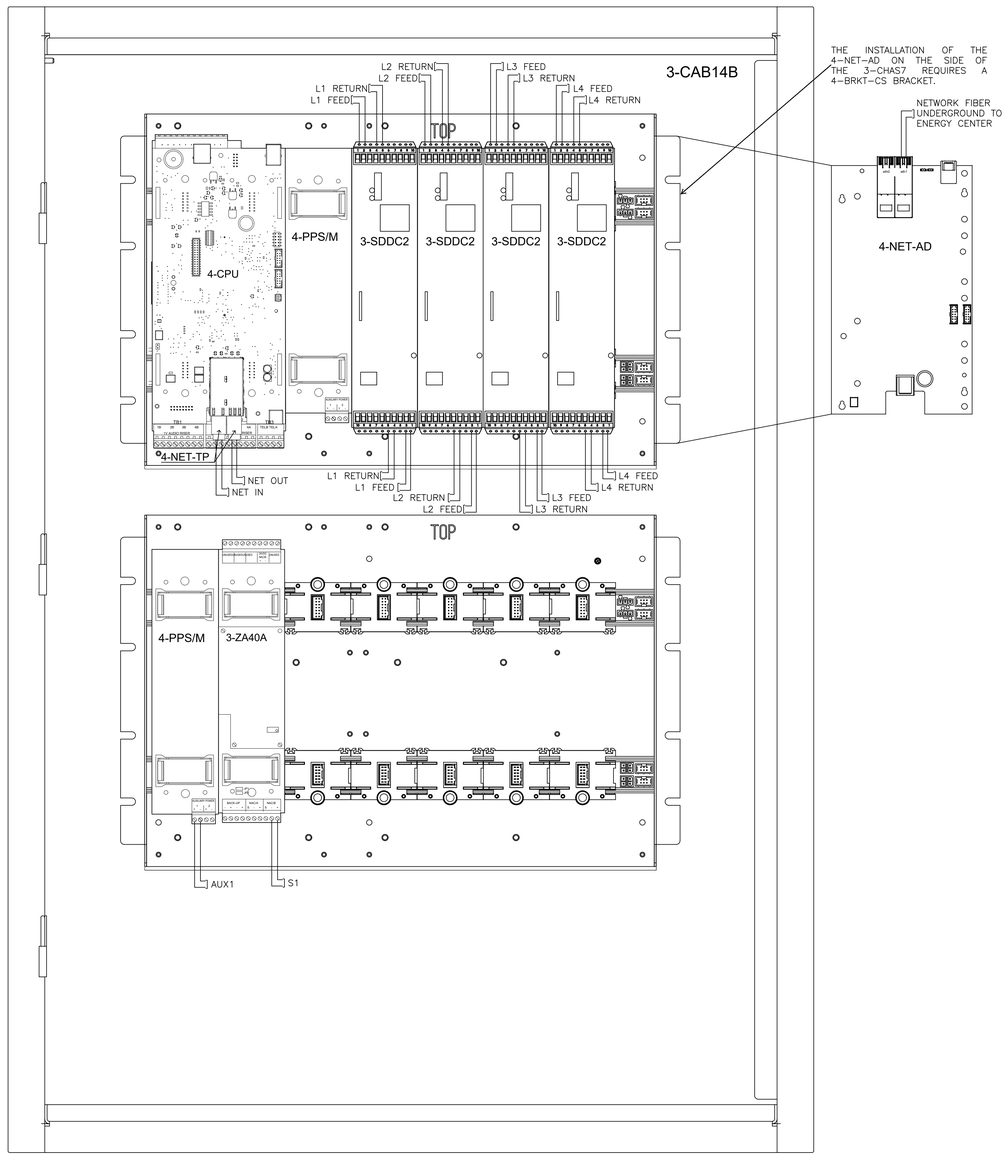
Project

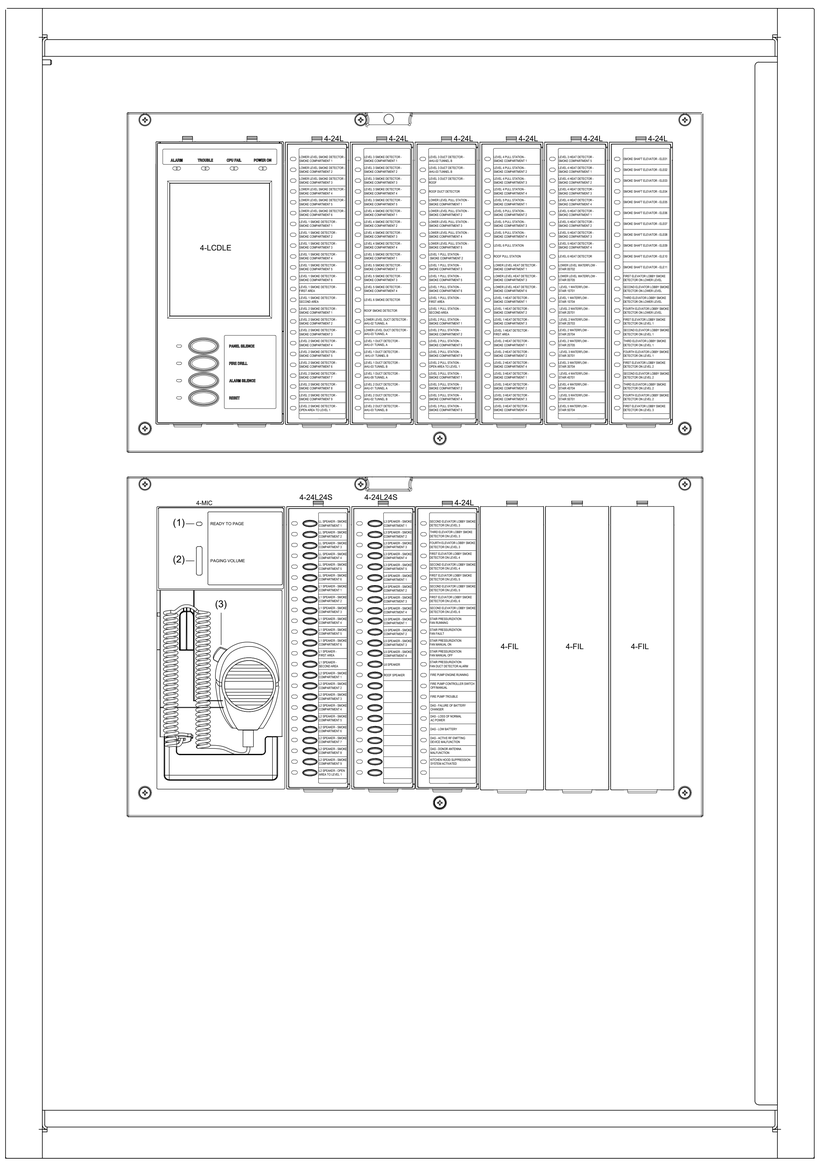
Title

FACU WIRING DETAIL #1

Building ID:	Floor Lev.:
Scale NTS	KP Proj. No.
Dwn By LW	Stantec No.
Chckd By VL	Sheet **H-FA044**

ORIGINAL SHEET - ARCH E1





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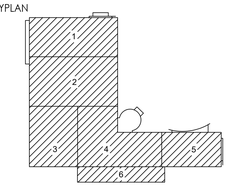
F2 / EST4 FIRE ALARM CONTROL PANEL WIRING

NOT TO SCALE

Consultant

Architect / Engineer of Record

KEYPLAN



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Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd.

Agency Approval

OSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

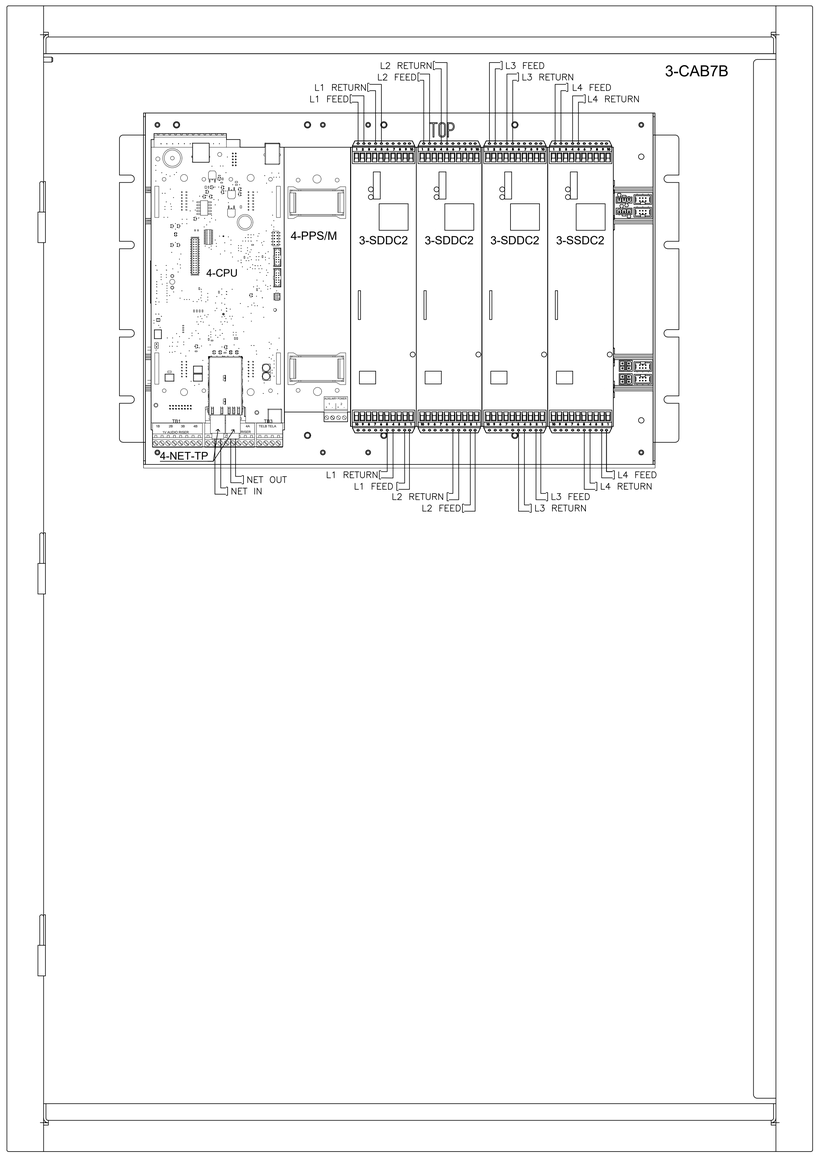
Project

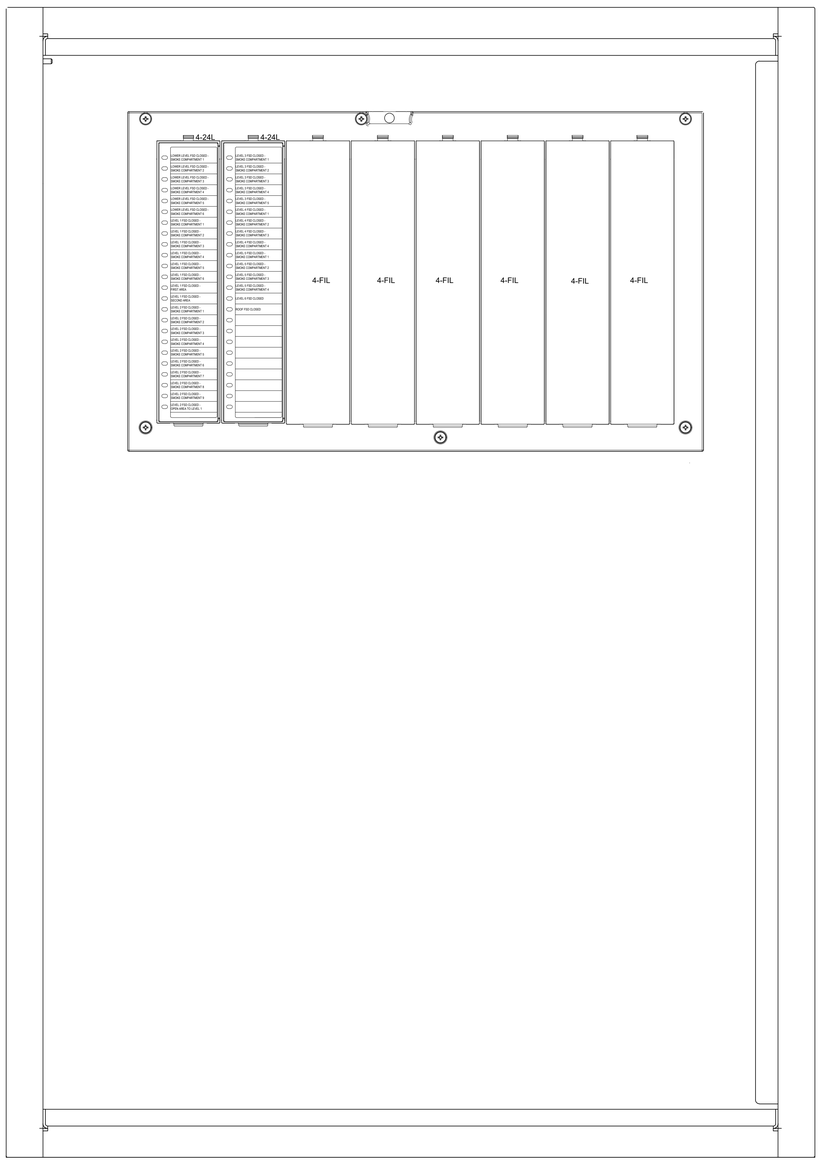
Title
FACU WIRING DETAIL #2

Building ID:	Floor Lev:
Scale: NTS	KP Proj. No.
Drwn By: LW	Stantec No.
Chckd By: VL	Sheet

H-FA045

ORIGINAL SHEET - ARCH E1





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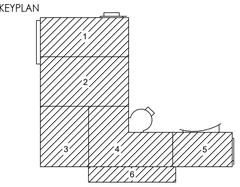
F3 / EST4 FIRE ALARM CONTROL PANEL WIRING

NOT TO SCALE

Consultant

Architect / Engineer of Record

KEYPLAN



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Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Agency Approval

OSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

Project

Title

FACU WIRING DETAIL #3

Building ID: Floor Lev.:

Scale NTS

Dwn By LW

Chckd By VL

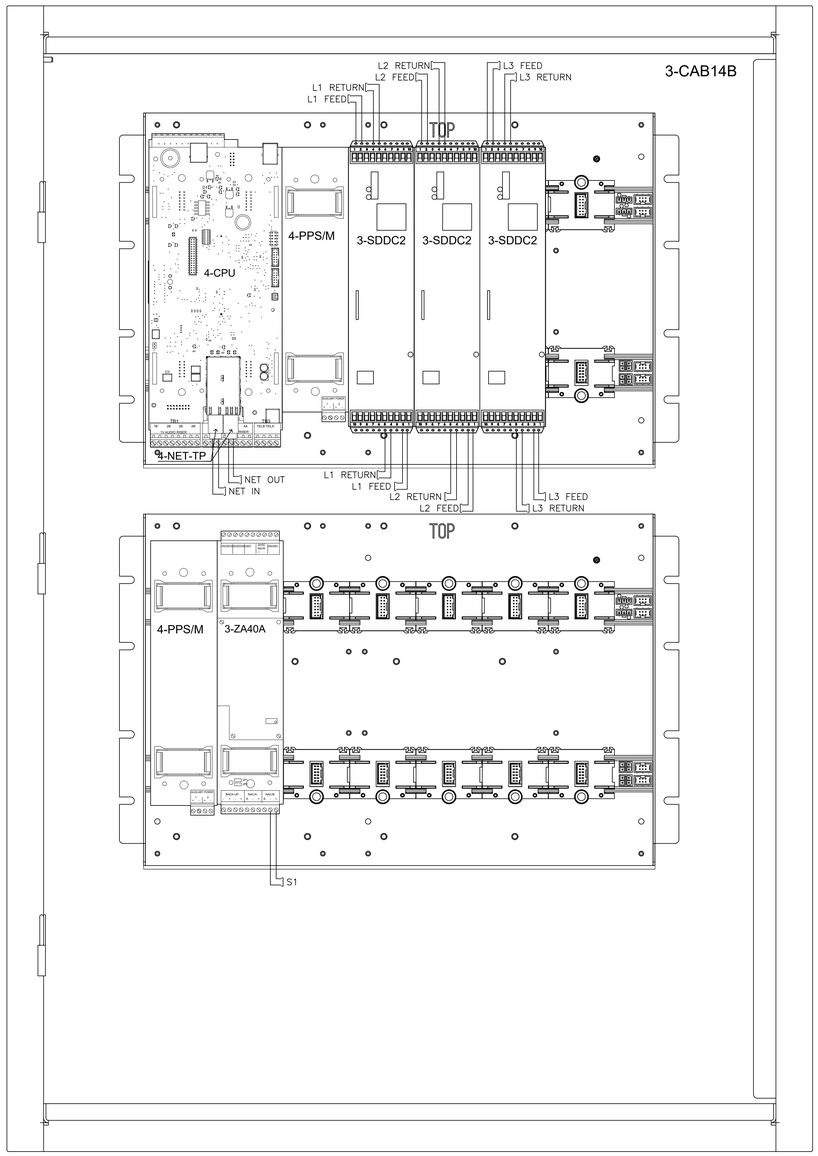
KP Proj. No.

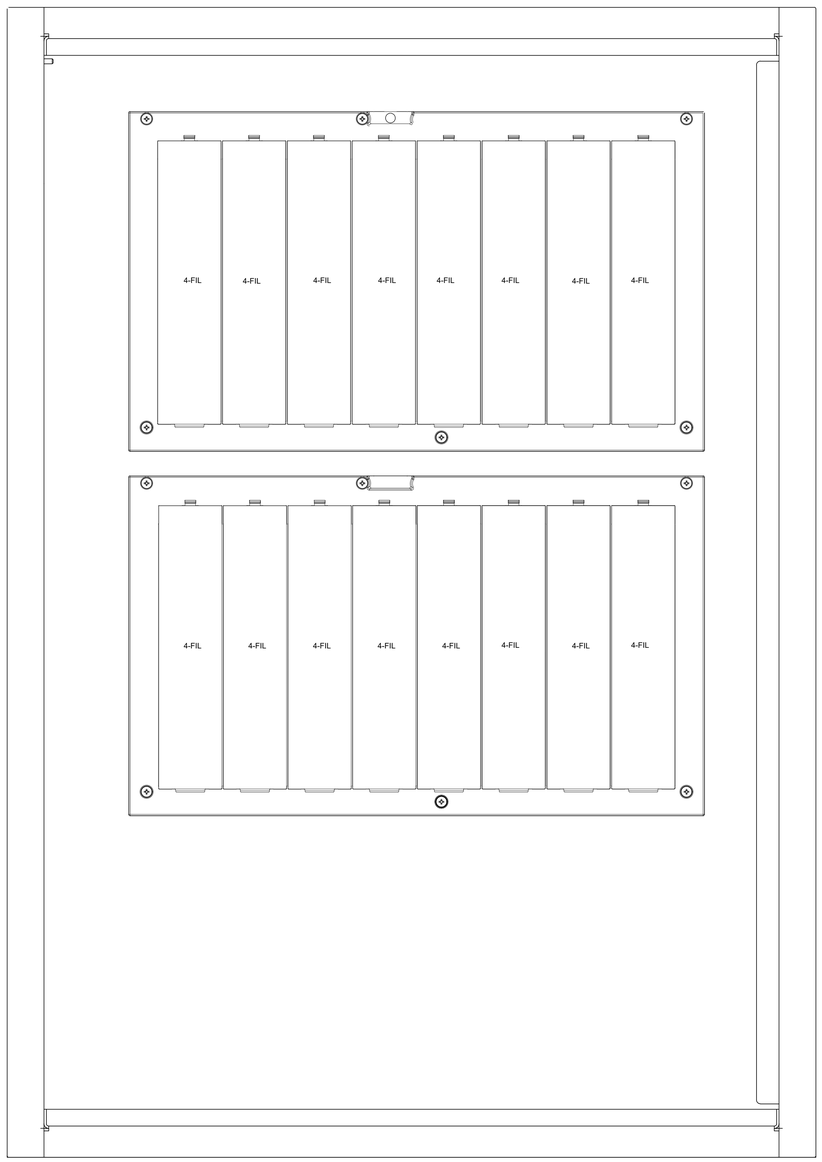
Stantec No.

Sheet

H-FA046

ORIGINAL SHEET - ARCH E1





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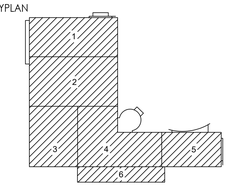
F4 / EST4 FIRE ALARM CONTROL PANEL WIRING

NOT TO SCALE

Consultant

Architect / Engineer of Record

KEYPLAN



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Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd.

Agency Approval

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INCREMENT 4 - I230010-43-04

Facility

Project

Title

FACU WIRING DETAIL #4

Building ID: Floor Lev.:

Scale NTS

Dwn By LW

Chckd By VL

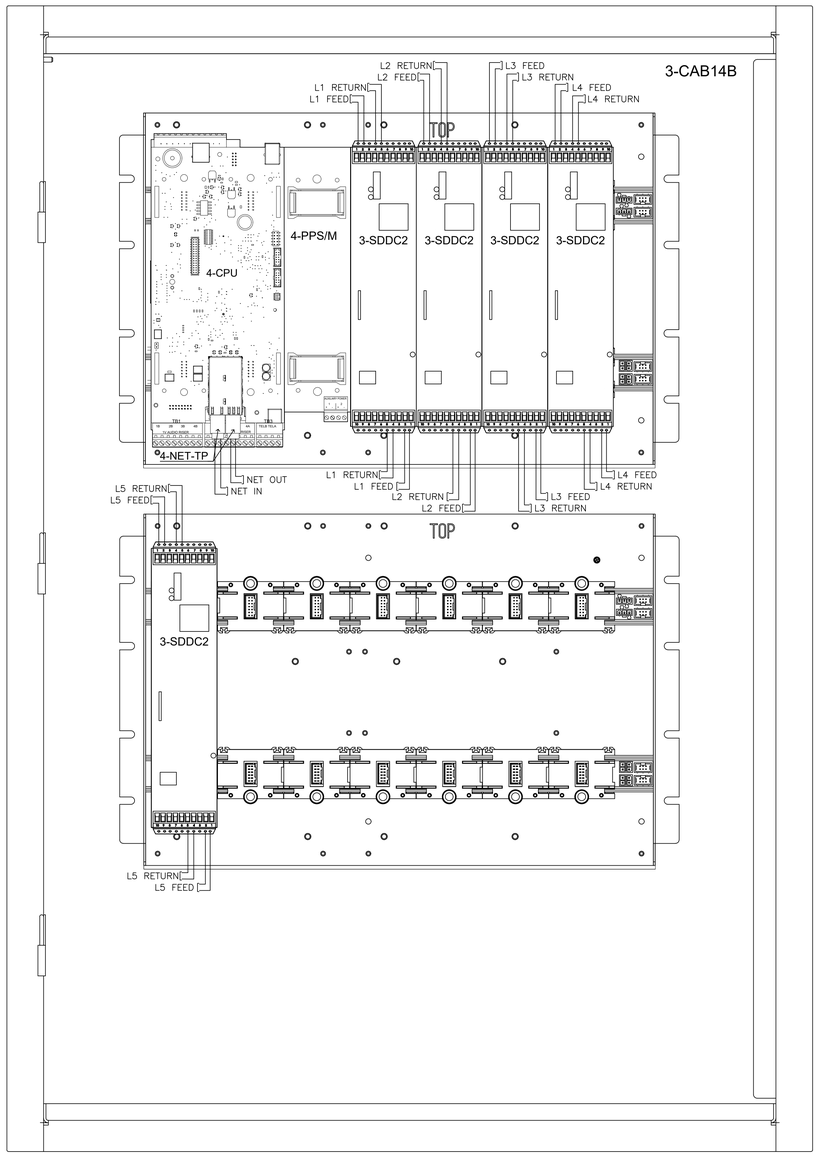
KP Proj. No.

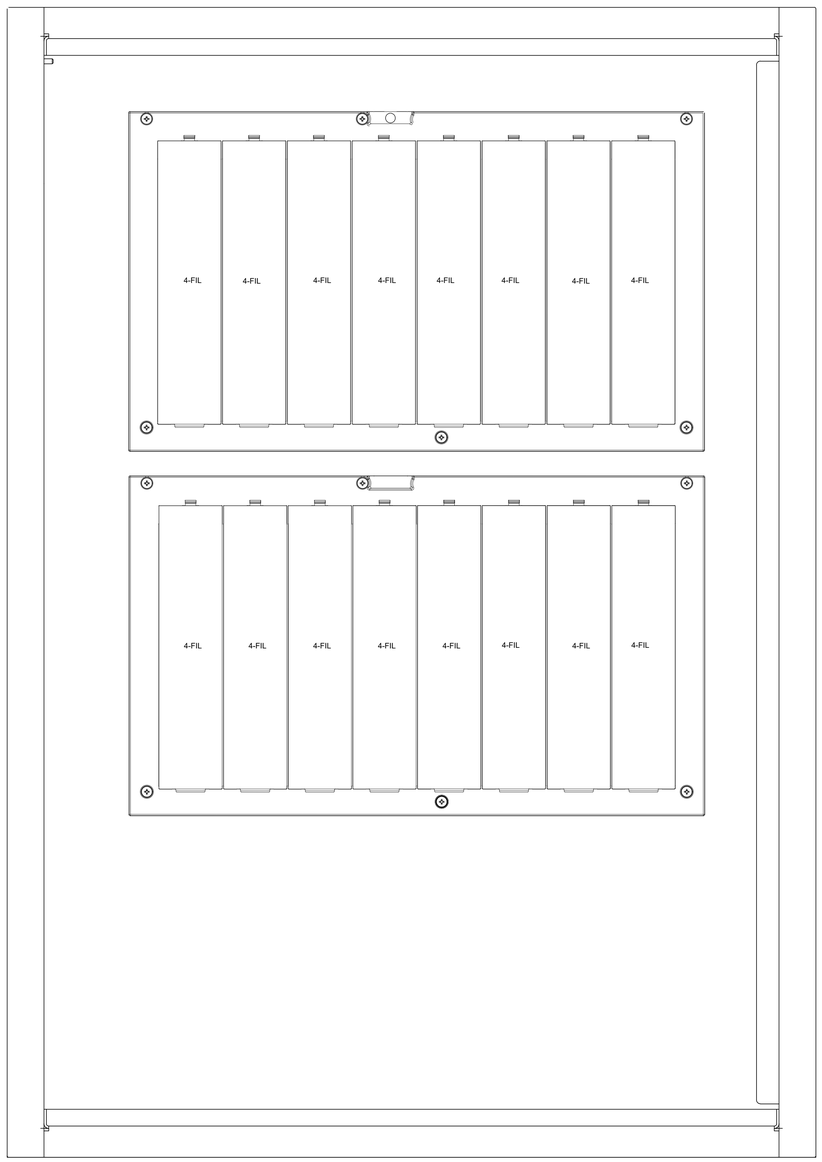
Stantec No.

Sheet

H-FA047

ORIGINAL SHEET - ARCH E1





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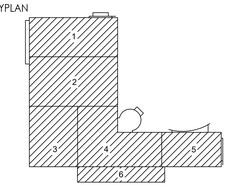
F5 / EST4 FIRE ALARM CONTROL PANEL WIRING

NOT TO SCALE

Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Agency Approval

OSHPD No. 123010-43-00
INCREMENT 4 - 123010-43-04

Facility

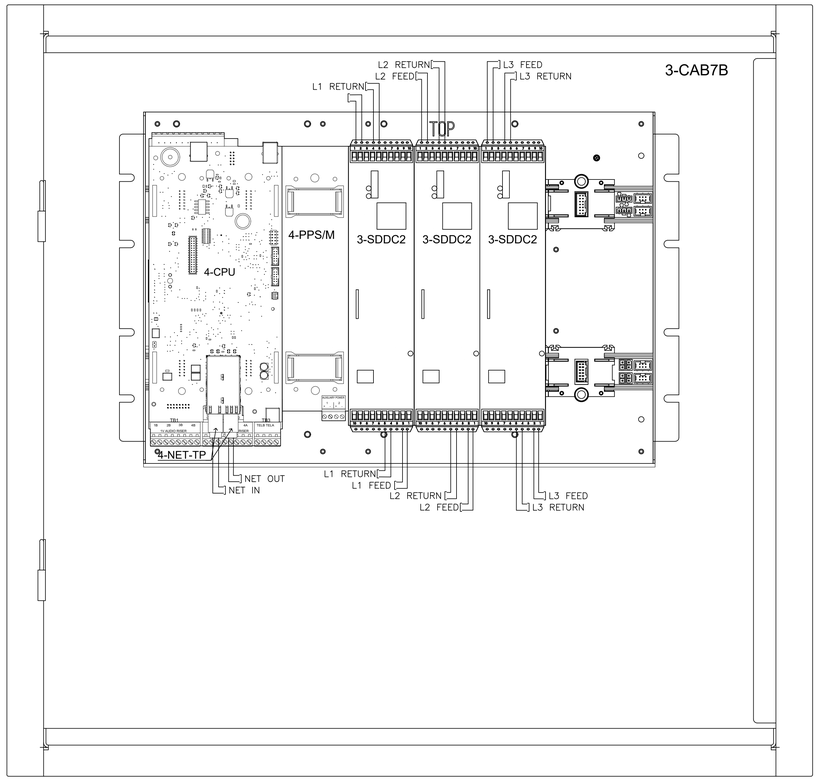
Project

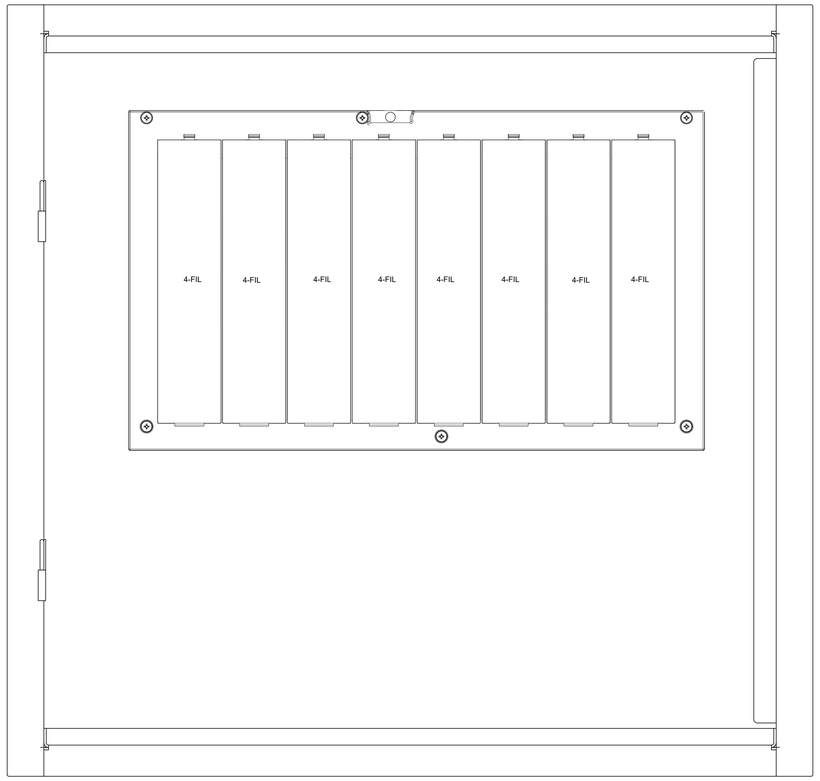
Title

FACU WIRING DETAIL #5

Building ID		Floor Lev.	
Scale	NTS	KP Proj. No.	
Dwn By	LW	Stantec No.	
Chckd By	VL	Sheet	**H-FA048**

ORIGINAL SHEET - ARCH E1

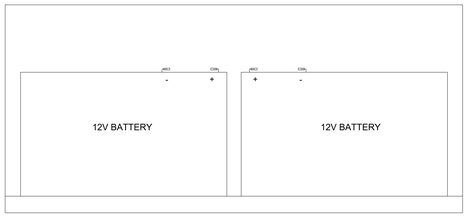




DISPLAY MOUNTED ABOVE

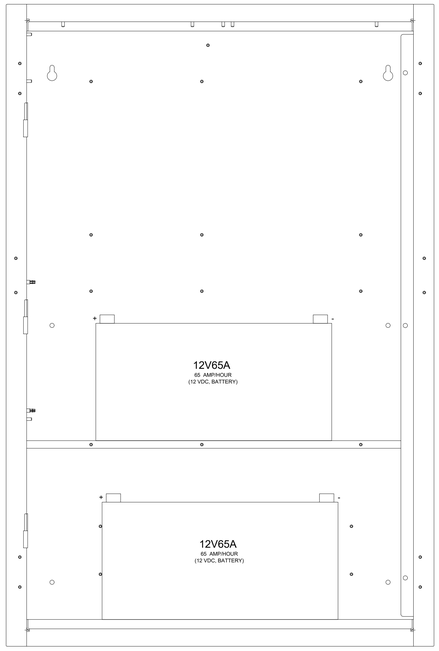
F7/F9/F11 / EST4 FIRE ALARM CONTROL PANEL WIRING

NOT TO SCALE



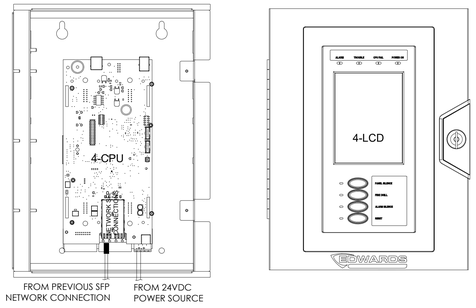
BATT1 / BC-1R BATTERY BOX

NOT TO SCALE



BATT2 / 3-RCC14R BATTERY BOX

NOT TO SCALE



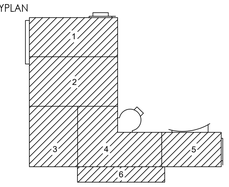
4-2ANN / EST4 LCD ANNUNCIATOR

NOT TO SCALE

Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Agency Approval

OSHPD No. 123010-43-00
INCREMENT 4 - 123010-43-04

Facility

Project

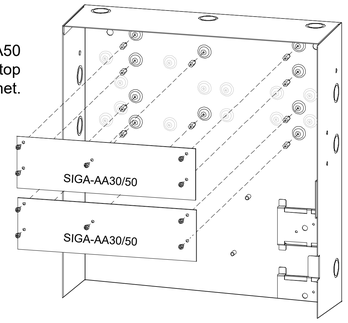
Title

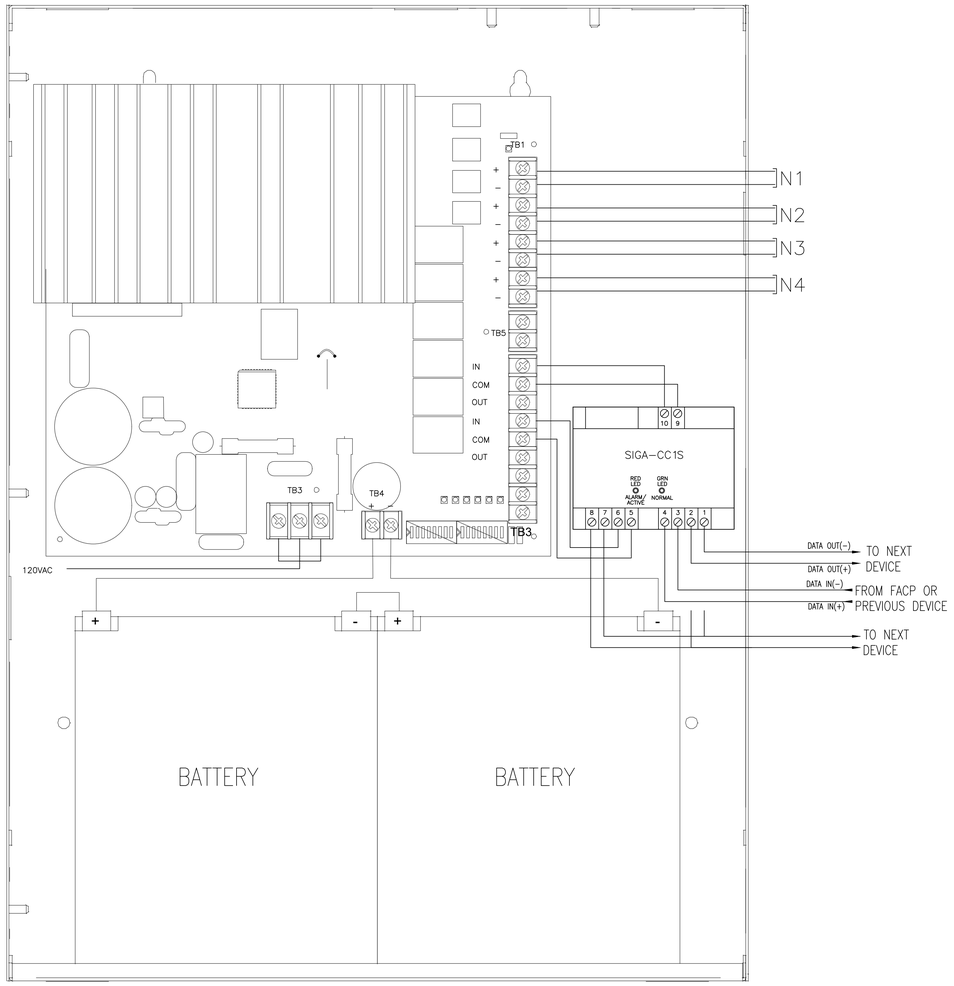
FACU WIRING DETAIL #6
BATTERY BOXES & ANNUNCIATOR DETAILS

Building ID		Floor Lev.	
Scale	NTS	KP Proj. No.	
Dwn By	LW	Stantec No.	
Chckd By	VL	Sheet	**H-FA049**

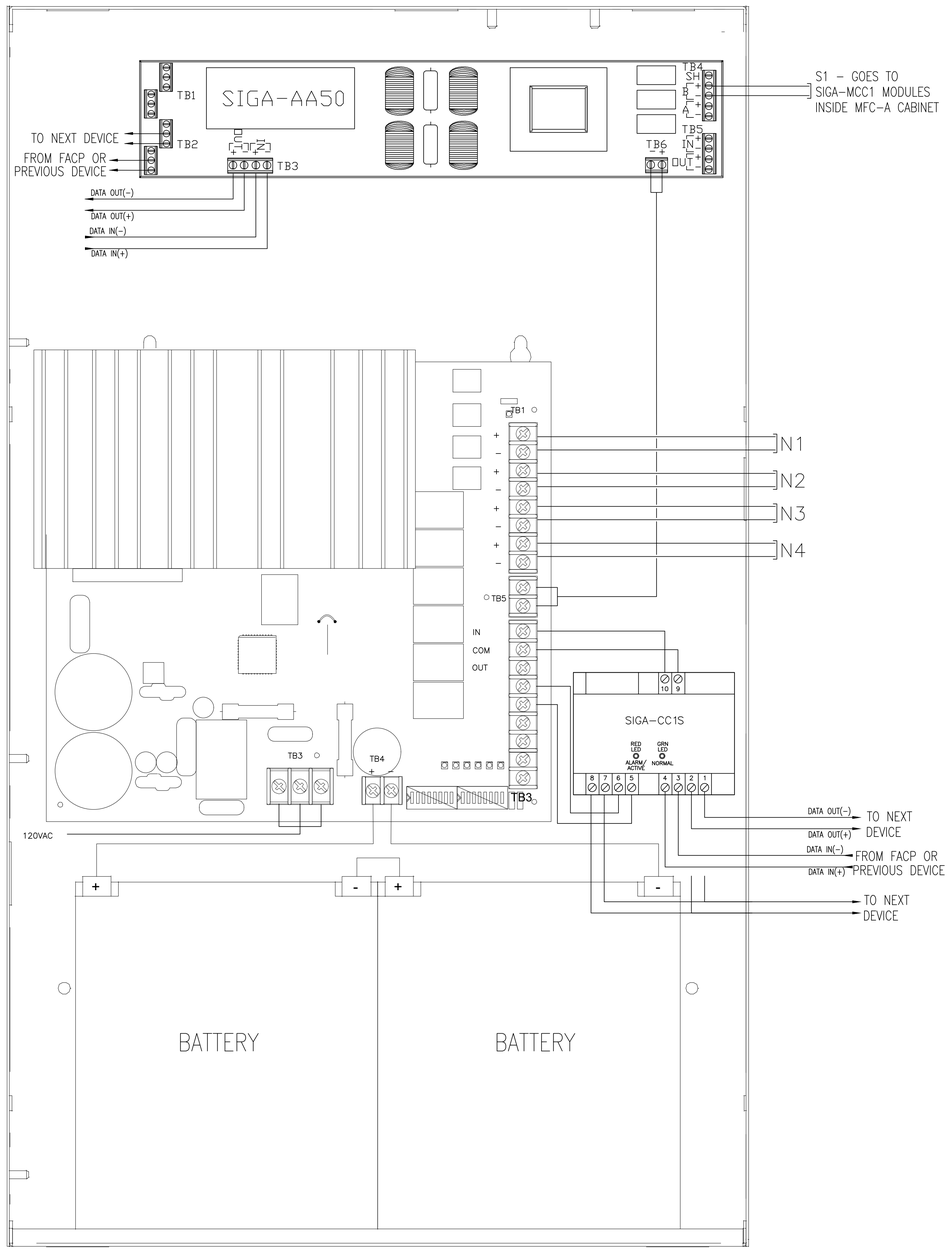
ORIGINAL SHEET - ARCH E1

Mounting detail:
Up two SIGA-AA30 or SIGA-AA50 amplifier modules in the area at the top of the APS Series power supply cabinet.





1 BPS10A WITH CC1S / TYPICAL BPS & SYNCHRONIZATION MODULE WIRING DETAIL N.T.S.

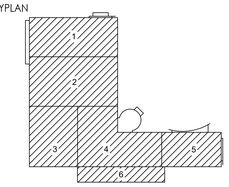


2 APS10A WITH CC1S / TYPICAL BPS & SYNCHRONIZATION MODULE WIRING DETAIL N.T.S.

Consultant

Architect / Engineer of Record

KEYPLAN



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Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Agency Approval
OSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

Project

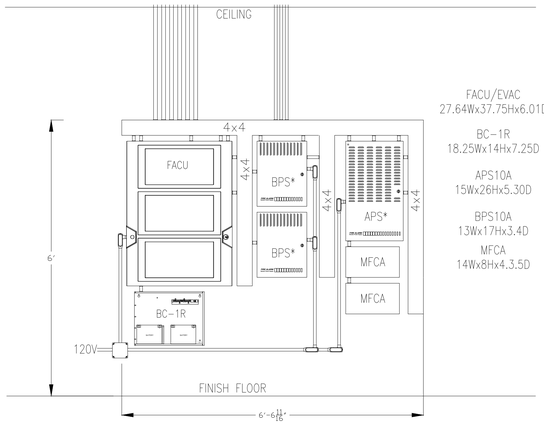
Title
TYPICAL BPS & APS WIRING DETAILS

Building ID Floor Lev.
Scale NTS KP Proj. No.
Drwn By LW Stantec No.
Chckd By VL

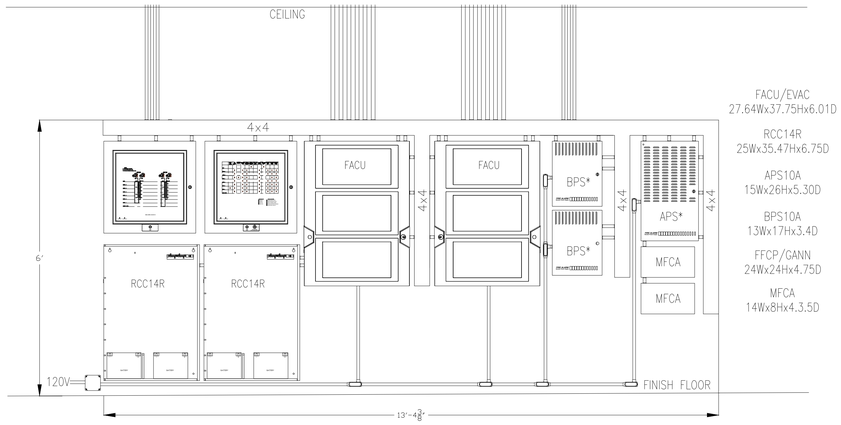
Sheet
H-FA050

ORIGINAL SHEET - ARCH E1

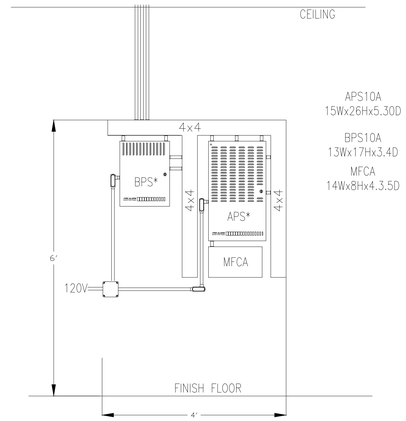
TELECOMMUNICATIONS SERVICE – 01U19



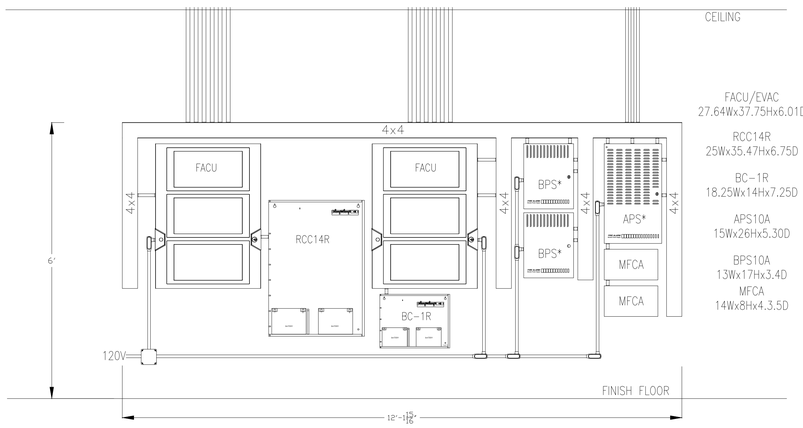
FIRE COMMAND CENTER – 1377



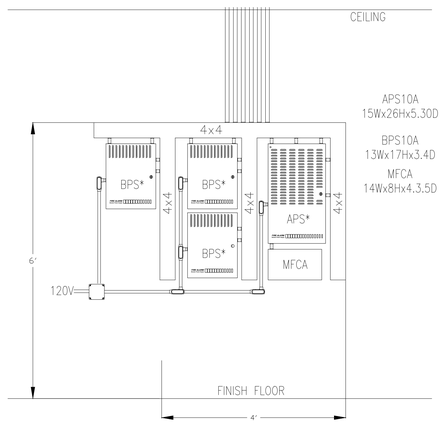
TELECOMMUNICATIONS SERVICE – 10U02/11U10/03U42/32U43/42U58/52U58



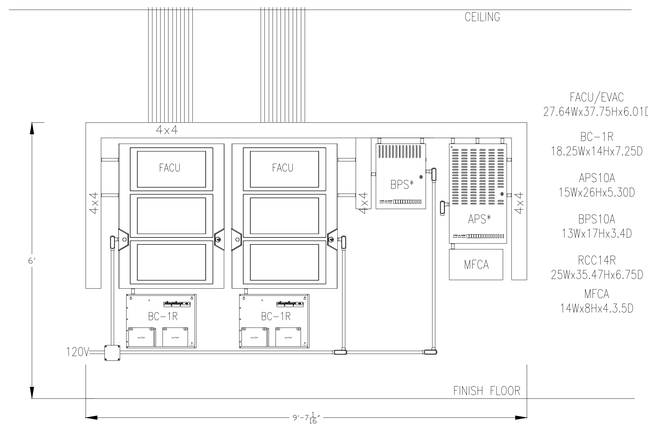
TELECOMMUNICATIONS SERVICE – 21U57



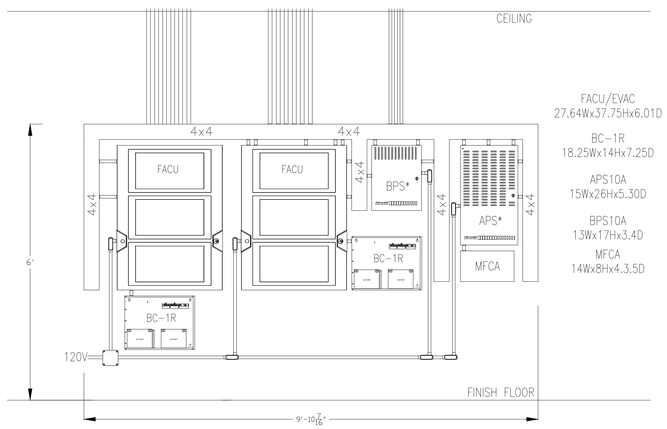
TELECOMMUNICATIONS SERVICE – 26U05



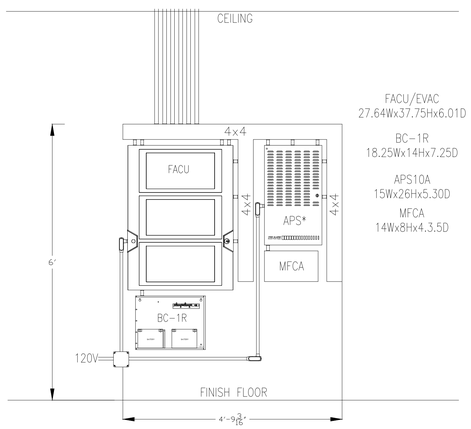
TELECOMMUNICATIONS SERVICE – 31U64/41U57



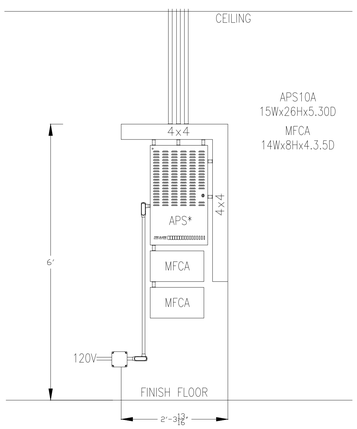
TELECOMMUNICATIONS SERVICE – 51U57



TELECOMMUNICATIONS SERVICE – 61U57



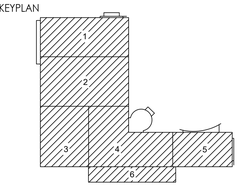
TELECOMMUNICATIONS SERVICE – 62U58



Consultant

Architect / Engineer of Record

KEYPLAN



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INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Agency Approval

DSHPD No. I230010-43-00

INCREMENT 4 - I230010-43-04

Facility

Project

Title

FA PANEL ELEVATION DETAILS

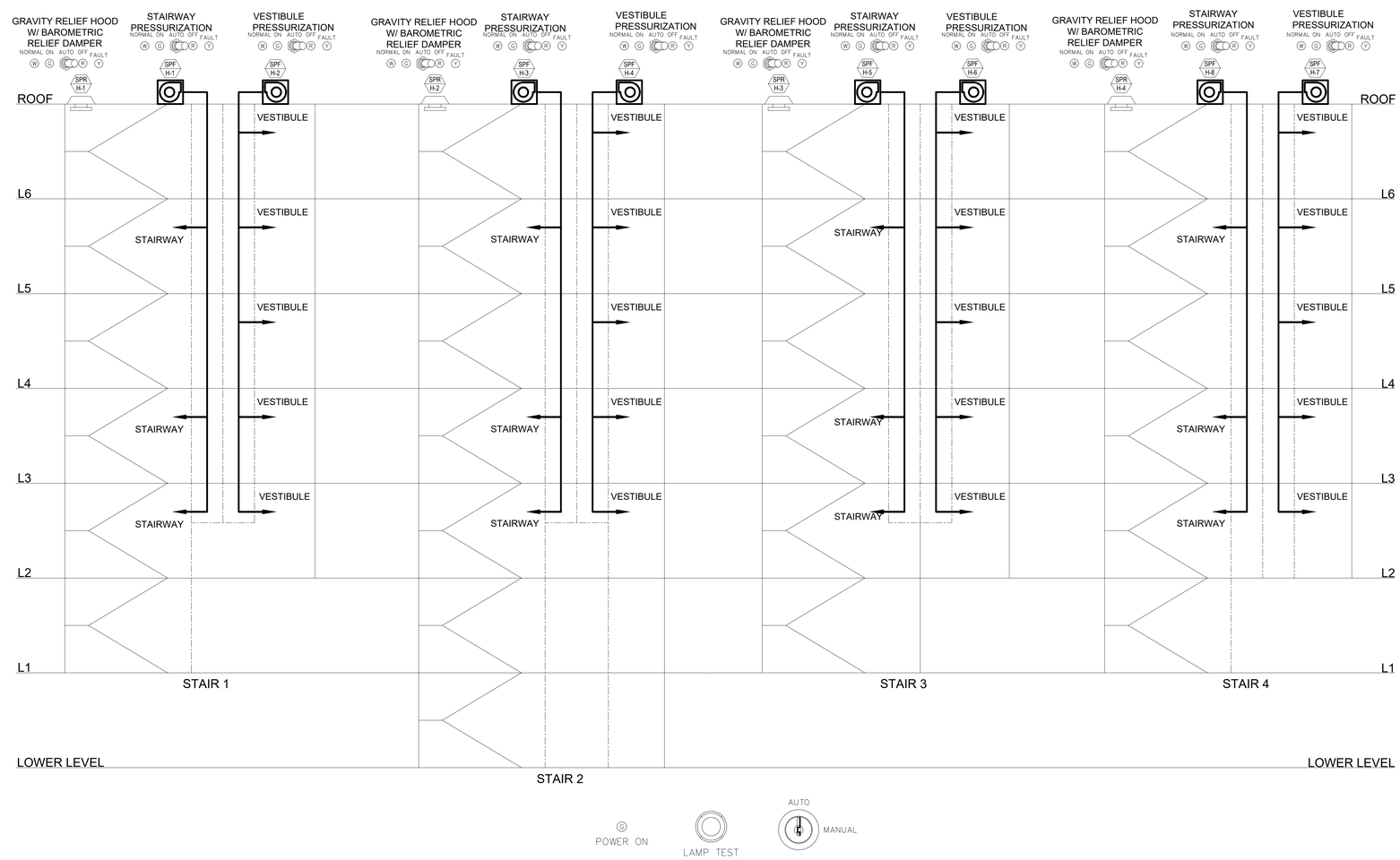
Building ID:	Floor Lev:
Scale NTS	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA051

ORIGINAL SHEET - ARCH E1

TO BE CONFIRMED

SMOKE CONTROL PANEL

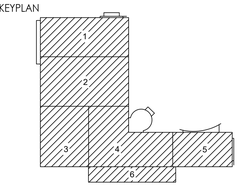


TO BE CONFIRMED

Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd.

Agency Approval

OSHPD No. I230010-43-00

INCREMENT 4 - I230010-43-04

Facility

Project

Title

FA SMOKE CONTROL PANEL

Building ID: Floor Lev:

Scale: NTS

Drwn By: LW

Chckd By: VL

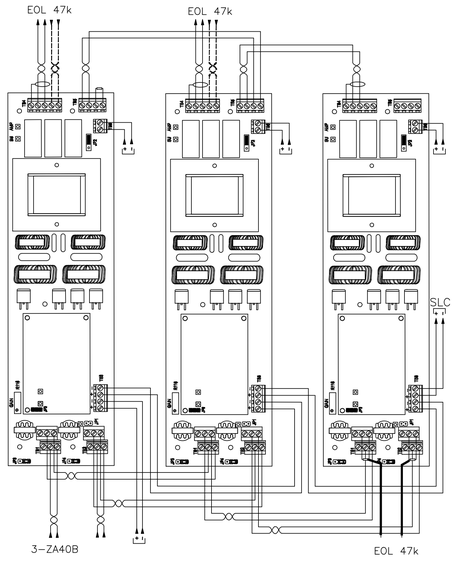
KP Proj. No.

Stantec No.

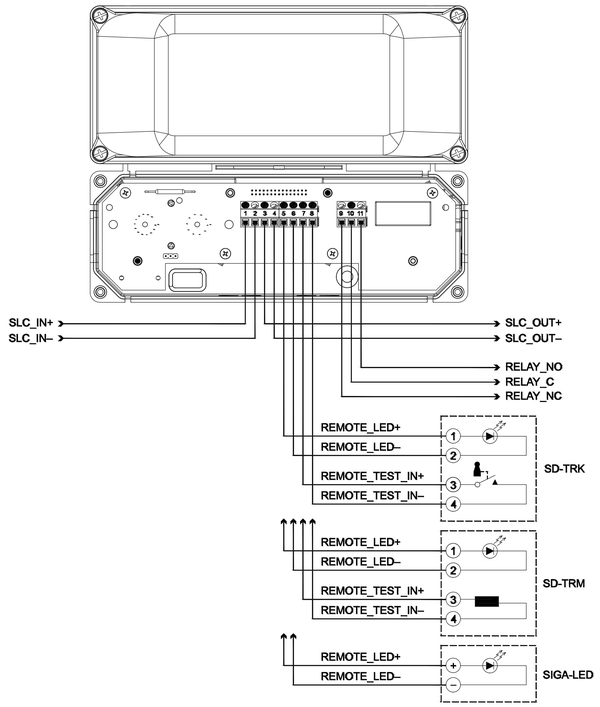
Sheet

H-FA055

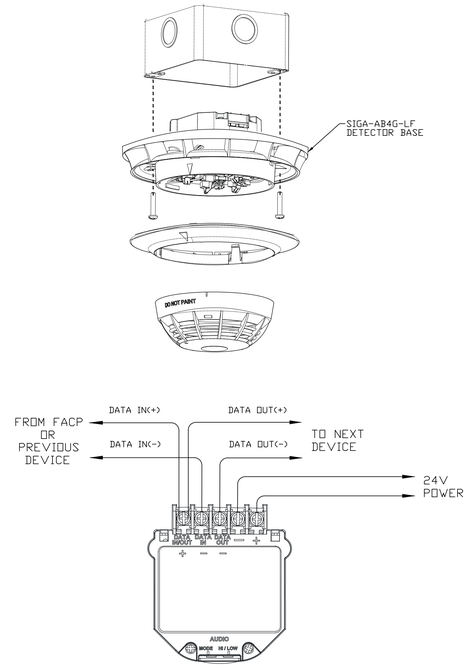
ORIGINAL SHEET - ARCH E1



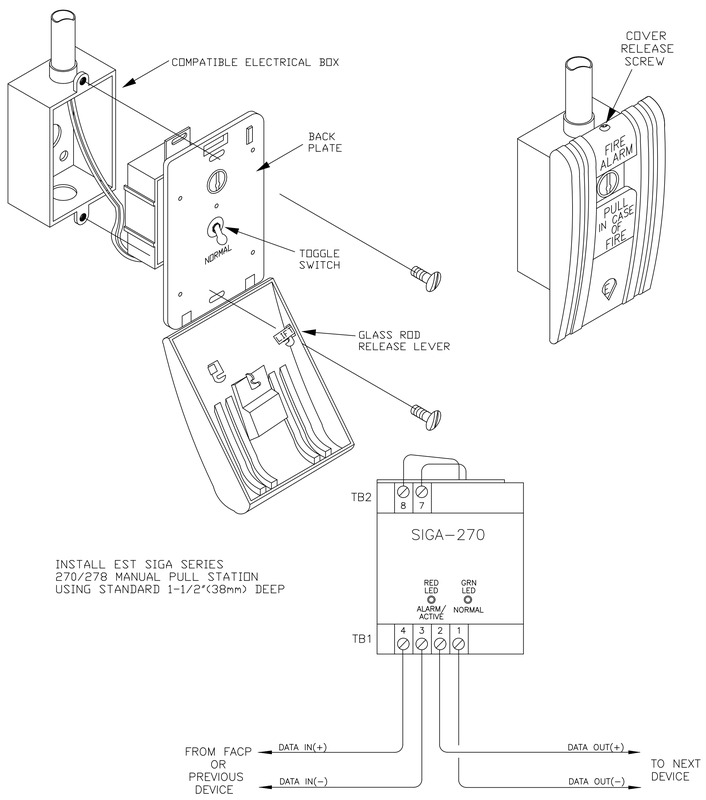
1 CONNECTION BETWEEN ZA40 (EST4)& SIGA AA-50 (APS10A) WIRING DETAIL N.T.S.



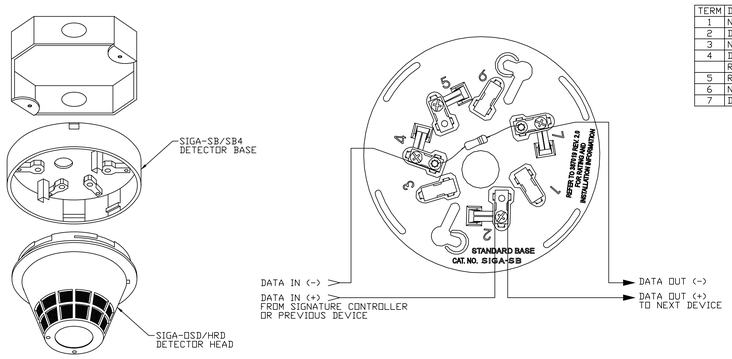
2 SIGA-DDOS OPTICA DUCT SMOKE DETECTOR WIRING DETAIL N.T.S.



3 SIGA-OSD SMOKE DETECTOR WITH SIGA-AB4G-LF LOW FREQUENCE SOUNDER BASE WIRING DETAIL N.T.S.

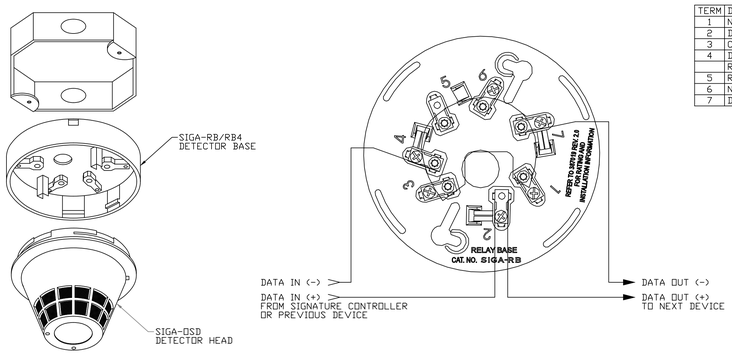


4 SIGA-270 MANUAL PULL STATION WIRING DETAIL N.T.S.



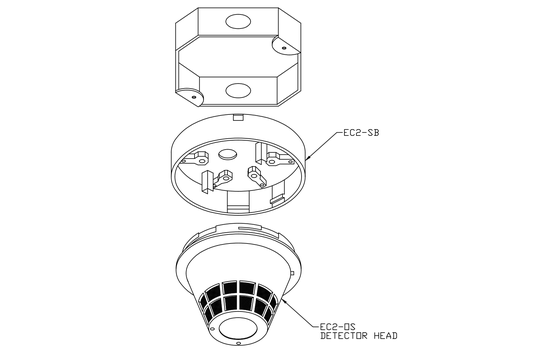
TERM	DESCRIPTION
1	NOT USED
2	DATA IN/OUT (+)
3	NOT USED
4	DATA IN (–)
	REMOTE LED
5	REMOTE LED
6	NOT USED
7	DATA OUT (–)

5 SIGA-OSD SMOKE DETECTOR WITH SIGA-SB/SB4 STANDARD BASE WIRING DETAIL N.T.S.

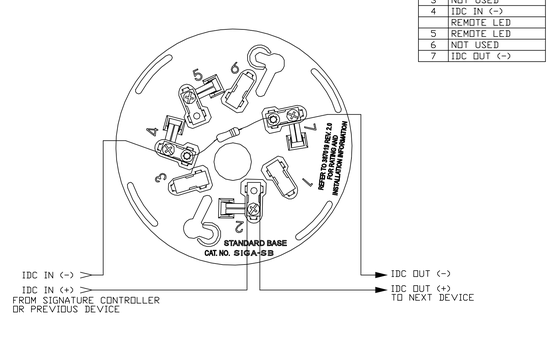


TERM	DESCRIPTION
1	NORMALLY OPEN
2	DATA IN/OUT (+)
3	COMMON
4	DATA IN (–)
	REMOTE LED
5	REMOTE LED
6	NORMALLY CLOSED
7	DATA OUT (–)

6 SIGA-OSD SMOKE DETECTOR WITH SIGA-RB/RB4 RELAY BASE WIRING DETAIL N.T.S.



TERM	DESCRIPTION
1	NOT USED
2	IDC IN/OUT (+)
3	NOT USED
4	IDC IN (–)
	REMOTE LED
5	REMOTE LED
6	NOT USED
7	IDC OUT (–)

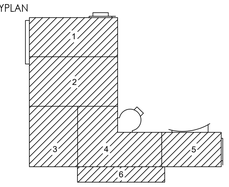


7 EC2-OS SMOKE DETECTOR WITH EC2-SB STANDARD BASE WIRING DETAIL N.T.S.

Consultant

Architect / Engineer of Record

KEYPLAN



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INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04
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	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Agency Approval
OSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

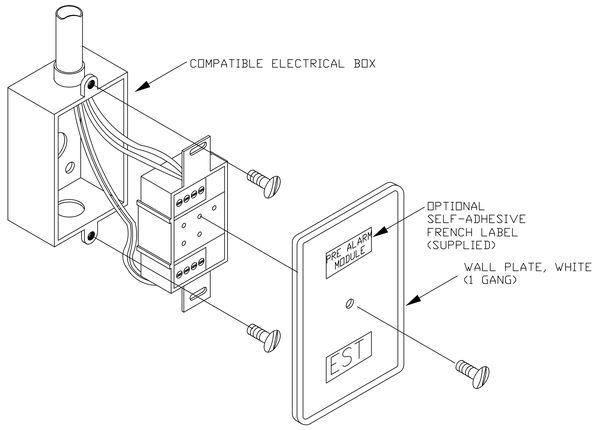
Facility

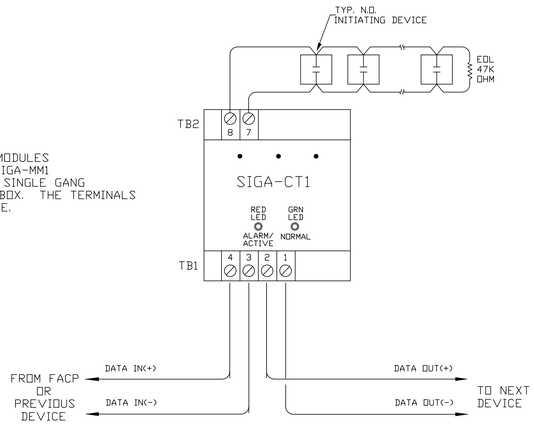
Project

Title
DETAILS SHEET #1

Building ID:
Floor Lev:
Scale NTS
Drwn By LW
Chckd By VL
KP Proj. No.
Stantec No.
Sheet
H-FA053

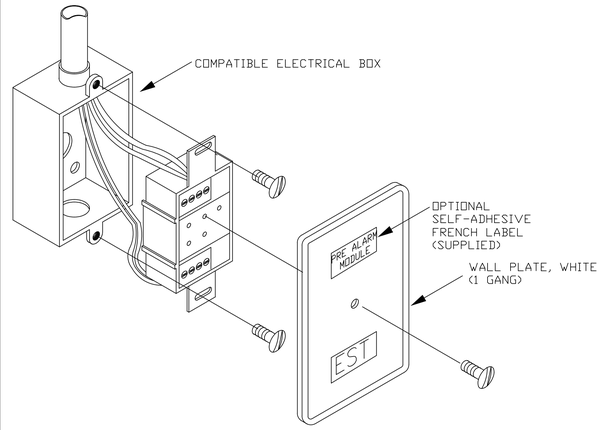
ORIGINAL SHEET - ARCH E1

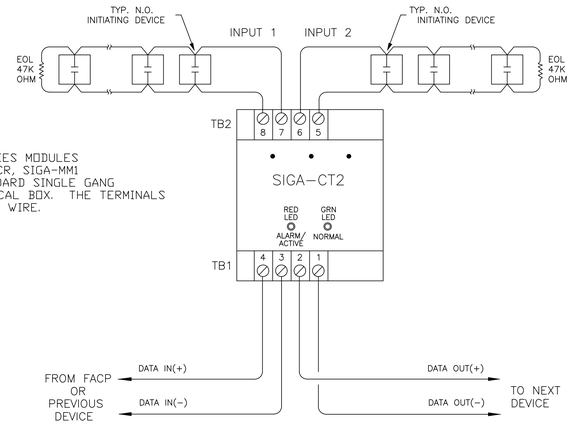




MOUNT EST SIGA SERIES MODULES
SIGA-CT1/CT2, SIGA-CR, SIGA-MM1
SIGA-WTM. TO STANDARD SINGLE GANG
1/1-2" DEEP ELECTRICAL BOX. THE TERMINALS
WILL ACCEPT #14AWG WIRE.

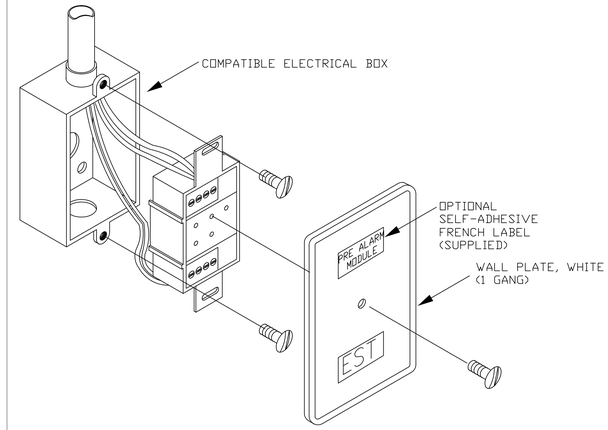
1 TYPICAL SIGA CT-1 INPUT MODULE WIRING DETAIL N.T.S.

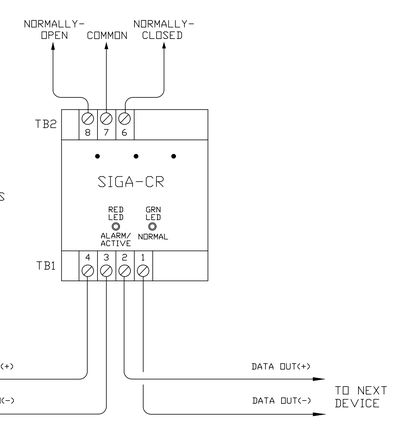




MOUNT EST SIGA SERIES MODULES
SIGA-CT1/CT2, SIGA-CR, SIGA-MM1
SIGA-WTM. TO STANDARD SINGLE GANG
1/1-2" DEEP ELECTRICAL BOX. THE TERMINALS
WILL ACCEPT #14AWG WIRE.

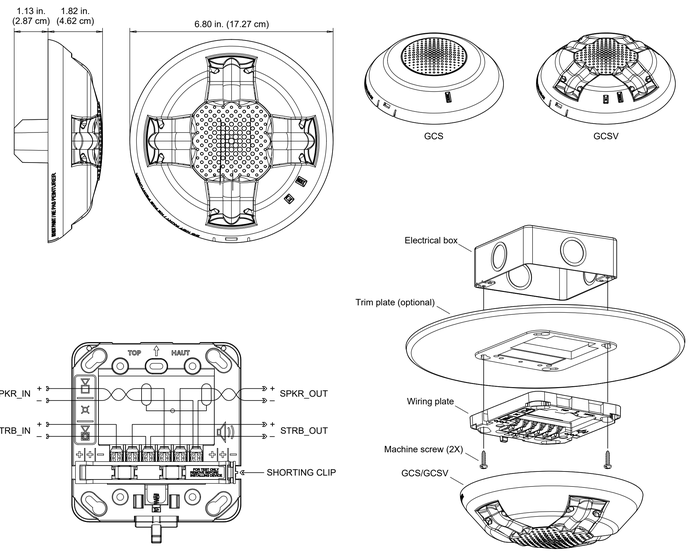
2 TYPICAL SIGA CT-2 INPUT MODULE WIRING DETAIL N.T.S.



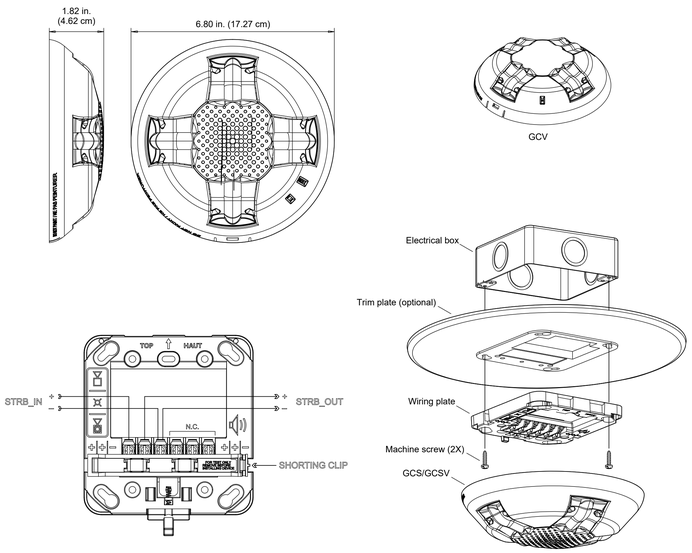


MOUNT EST SIGA SERIES MODULES
SIGA-CT1/CT2, SIGA-CR, SIGA-MM1
SIGA-WTM. TO STANDARD SINGLE GANG
1/1-2" DEEP ELECTRICAL BOX. THE TERMINALS
WILL ACCEPT #14AWG WIRE.

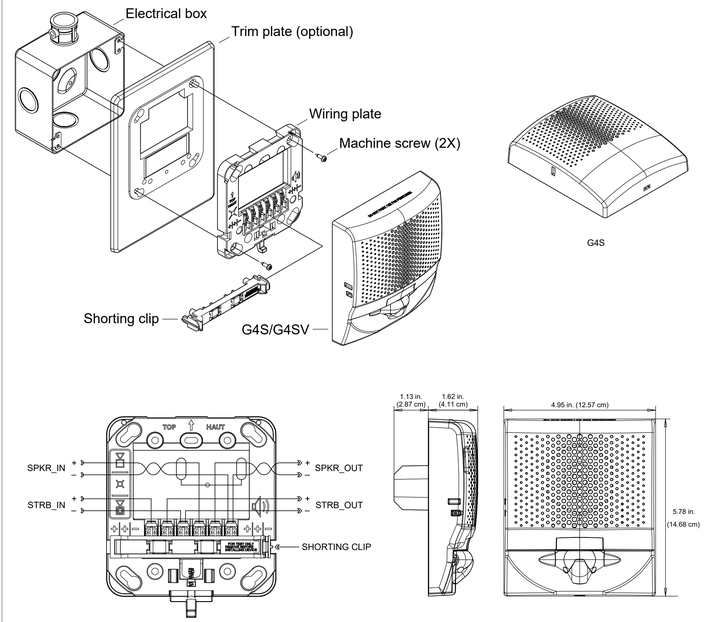
3 TYPICAL SIGA CR INPUT MODULE WIRING DETAIL N.T.S.



4 TYPICAL EST GCS CEILING LED SPEAKER/STROBE WIRING DETAIL N.T.S.



5 TYPICAL EST GC CEILING LED STROBE WIRING DETAIL N.T.S.

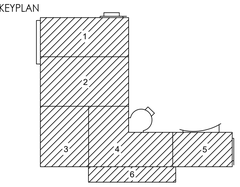


6 TYPICAL EST G4S WALL LED SPEAKER/STROBE WIRING DETAIL N.T.S.

Consultant

Architect / Engineer of Record

KEYPLAN



Revision

	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued

	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Agency Approval

CSHPD No. (23)0010-43-00
INCREMENT 4 - (23)0010-43-04

Facility

Project

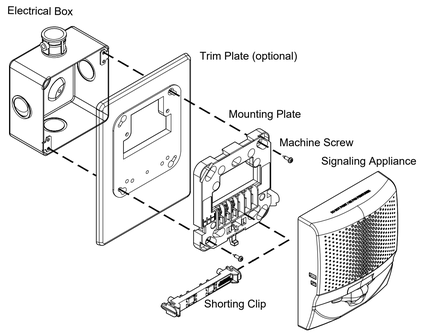
Title
DETAILS SHEET #2

Building ID: Floor Lev:

Scale NTS
Drwn By LW
Chckd By VL

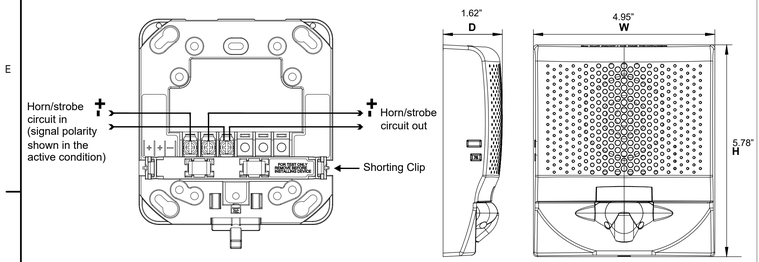
KP Proj. No.
Stantec No.
Sheet
H-FA054

ORIGINAL SHEET - ARCH E1



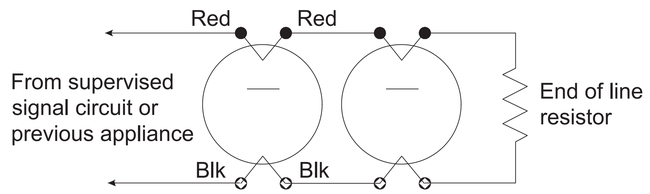
Optional Trim Plate

Using a trim plate is optional.

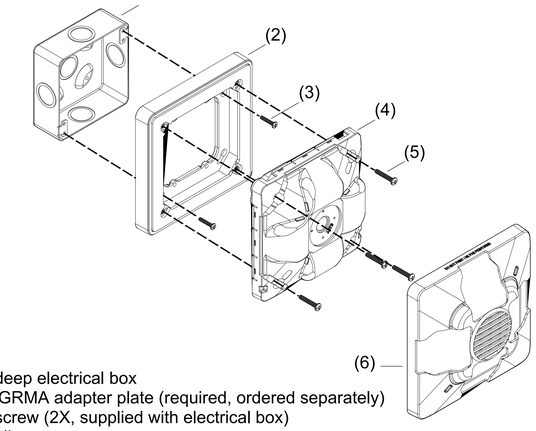


1 TYPICAL EST G4 WALL LED STROBE WIRING DETAIL N.T.S.

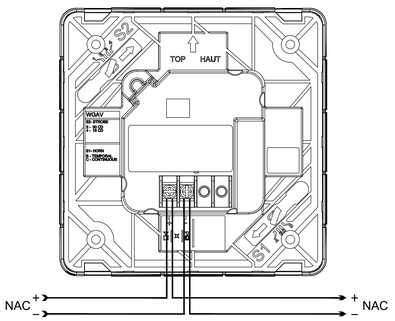
(1)



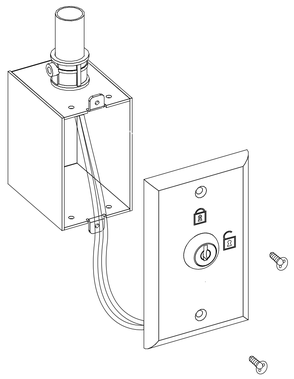
2 TYPICAL 439D-10AWC BELL WIRING DETAIL N.T.S.

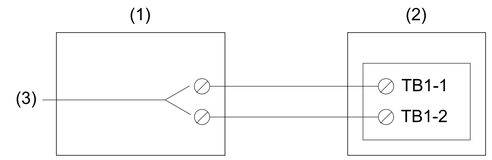


(1) 4-inch square deep electrical box
(2) WGWMA or WGRMA adapter plate (required, ordered separately)
(3) 8-32 machine screw (2X, supplied with electrical box)
(4) Notification appliance
(5) 8-32 machine screws (4X, supplied with appliance)
(6) Cover



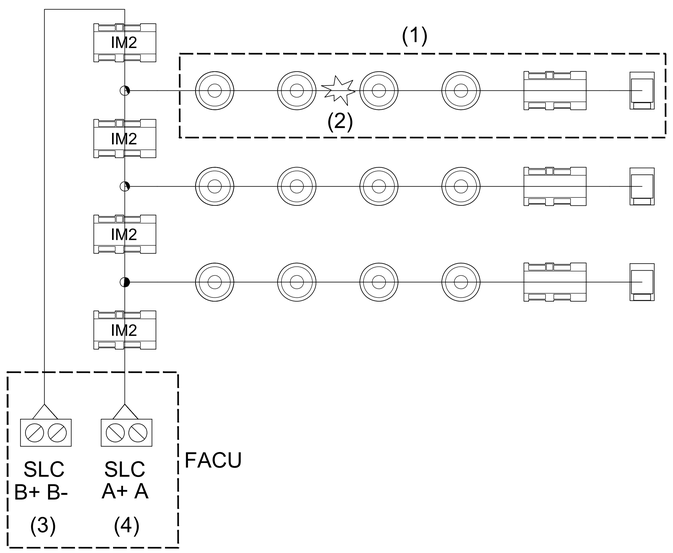
3 TYPICAL WGVRF OUTDOOR STROBE WIRING DETAIL N.T.S.



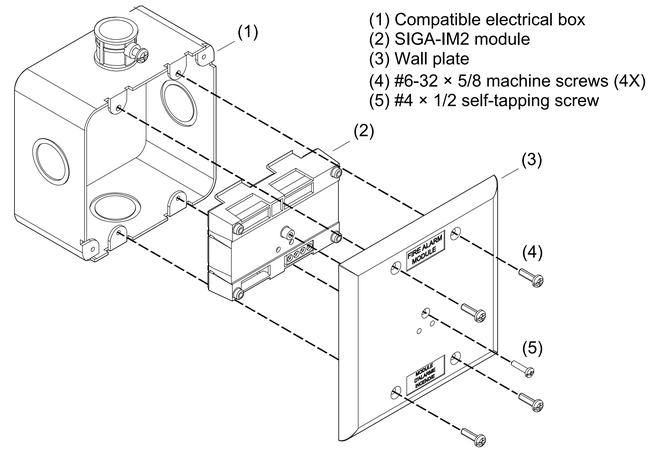


(1)Annunciator
(2)Key switch
(3)External switch terminals or connector

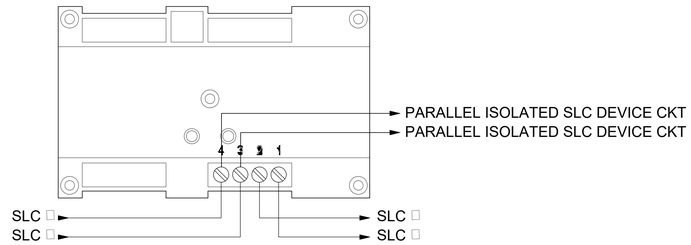
4 TYPICAL RKEY SWITCH WIRING DETAIL N.T.S.



(1) Non-isolated devices effectively removed from the circuit
(2) Short circuit
(3) SLC Class B out
(4) SLC Class A return



(1) Compatible electrical box
(2) SIGA-IM2 module
(3) Wall plate
(4) #6-32 × 5/8 machine screws (4X)
(5) #4 × 1/2 self-tapping screw

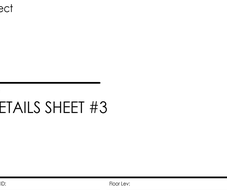


5 TYPICAL SIGA-IM2 ISOLATOR MODULE WIRING AND DETAILS N.T.S.

Consultant

Architect / Engineer of Record

KEYPLAN



Revision

	By	Appd	YYYY.MM.DD

INCREMENT 4 SEG 3B SUBMISSION #1 2025.03.04

Issued

	By	Appd	YYYY.MM.DD
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Agency Approval

OSHPD No. I2300010-43-00
INCREMENT 4 - I2300010-43-04

Facility

Project

Title
DETAILS SHEET #3

Building ID Floor Lev.

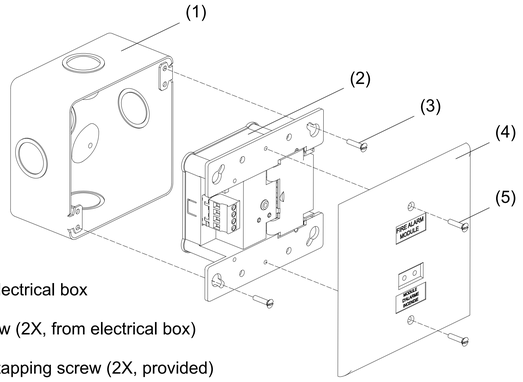
Scale NTS KP Proj. No.

Dwn By LW Stantec No.

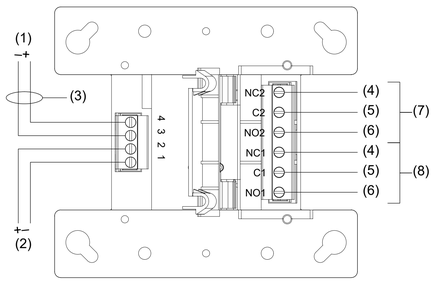
Chckd By VL Sheet

H-FA055

ORIGINAL SHEET - ARCH E1



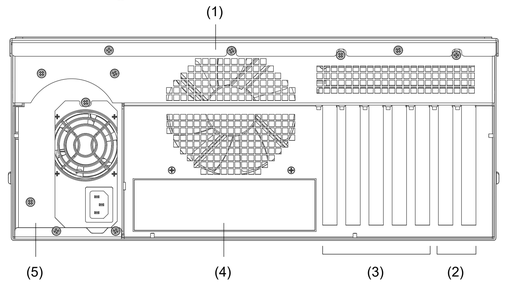
(1) Compatible electrical box
(2) Module
(3) Machine screw (2X, from electrical box)
(4) Wall plate
(5) #4 × 1/2 self-tapping screw (2X, provided)



(1) Signaling line circuit (SLC) from previous device
(2) Signaling line circuit (SLC) to next device
(3) Power-limited and supervised
(4) Normally closed contact (NC)
(5) Common contact (C)
(6) Normally open contact (NO)
(7) Relay terminal set 2.

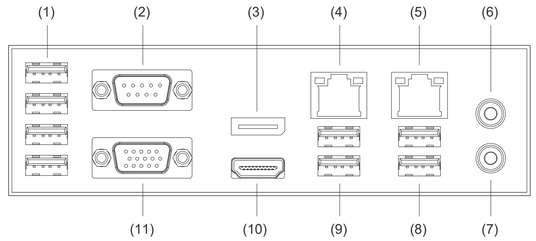
1 TYPICAL SIGA-CRH RELAY MODULE WIRING DETAIL

Figure 6: Rear panel features



(1) Fan 3
(2) PCI expansion card slots
(3) Not used
(4) I/O panel (see Figure 7)
(5) Power supply

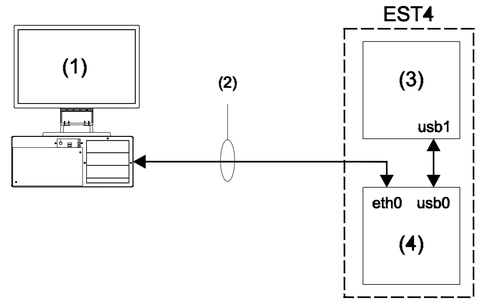
Figure 7: FW-UL7 I/O panel



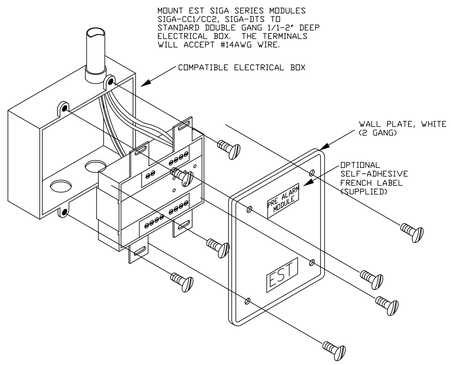
(1) USB 2.0 port (4X)
(2) COM port (not used)
(3) DP++ video port
(4) RJ-45 Ethernet port (LAN 1)
(5) RJ-45 Ethernet port (LAN 2)
(6) Line out (not used)
(7) Mic in (not used)
(8) USB 3.0 Gen2 port (2X)
(9) USB 3.0 Gen1 port (2X)
(10) HDMI video port
(11) VGA video port

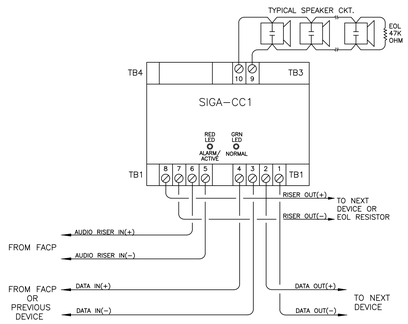
2 TYPICAL FW-UL7W FIREWORKS STATION WIRING DETAIL

Local EST4 Ethernet connection



(1) FW-UL7 and FW-UL6CC1.
(2) RJ-45 Ethernet patch cable, Cat 5e or better. Limit connection to the same room, within 20 ft. (6.1 m) for UL or 59 ft. (18 m) for ULC and enclose in conduit or equivalent protection against mechanical injury.
(3) EST4 CPU card (e.g., 4-CPU, 4-ANNCPU, 4-CPUGRPH).
(4) 4-FWAL1/2/3/4 card and 4-FWAL-CAT SFP module.



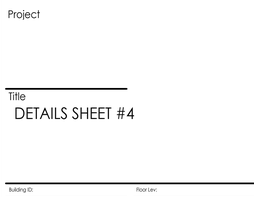


4 TYPICAL SIGA-CC1 MODULE WIRING DETAIL N.T.S.

Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04
Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd.

Agency Approval
OSHPD No. (23)0010-43-00
INCREMENT 4 - (23)0010-43-04

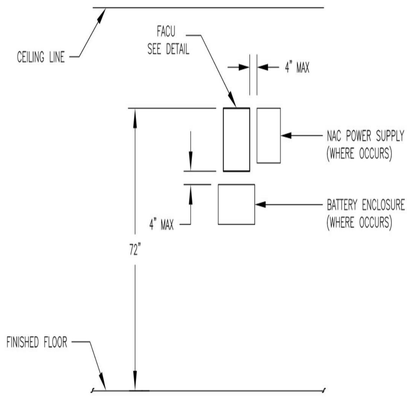
Facility

Project

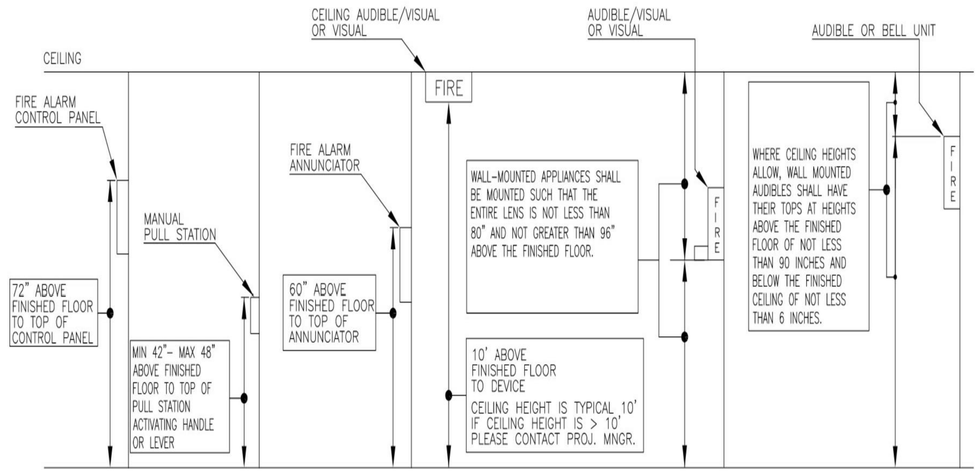
Title
DETAILS SHEET #4

Building ID Floor Lev.
Scale NTS KP Proj. No.
Dwn By LW Stantec No.
Chckd By VL Sheet
H-FA056

ORIGINAL SHEET - ARCH E1



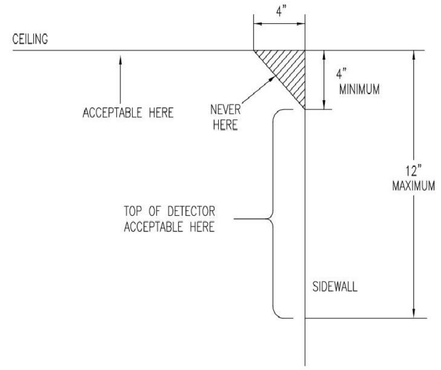
1 FACU AND BPS ELEVATION DETAILS N.T.S.



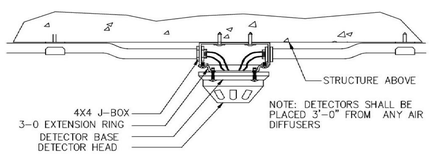
NOTE: THE INSTALLATION BACK BOX DOES NOT ALWAYS CORRESPOND TO THE BOTTOM OR THE TOP OF THE ACTUAL DEVICE. SEE SPECIFIC DEVICE INSTALLATION SHEETS FOR THE CORRESPONDING BACK BOX INSTALLATION HEIGHTS.

2 TYPICAL DEVICE ELEVATION DETAIL N.T.S.

NOTE:
1. MEASUREMENTS SHOWN ARE TO THE CLOSEST EDGE OF THE DETECTOR.
2. DO NOT MOUNT ANY SMOKE DETECTOR WITHIN 3 FEET OF ANY AIR REGISTER.

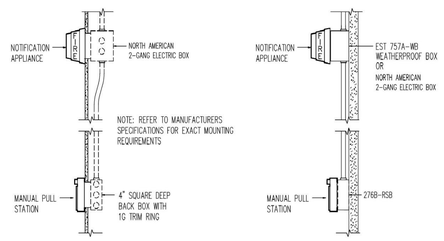


3 TYPICAL SMOKE DETECTOR LOCATION N.T.S.



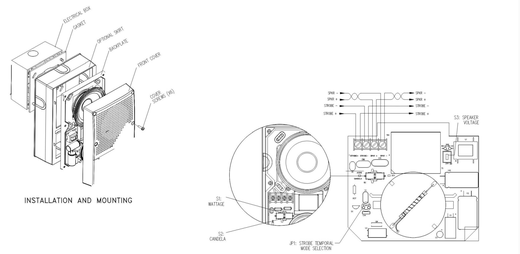
*DETAIL IS TYPICAL FOR DETECTORS AND NOTIFICATION DEVICES

4 SURFACE MOUNT DEVICE



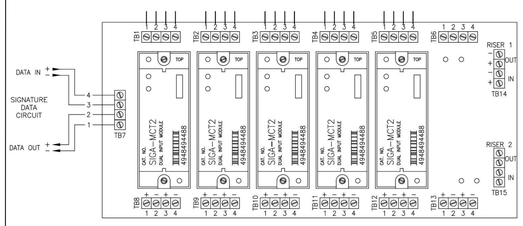
FLUSH MOUNT SURFACE MOUNT

5 DEVICE WALL MOUNT DETAIL N.T.S.



INSTALLATION AND MOUNTING

6 TYPICAL OUTDOOR SPEAKER STROBE N.T.S.



7 MFCA WIRING DETAIL N.T.S.

EXAMPLE OF UTILIZING J-BOX ON PRINT FOR CLASS "B" WIRING CIRCUIT.

NOTE:
CABLE IN JBOX ARE NOT TO BE T-TAPPED OR SPLICED FOR CLASS "B" CIRCUIT: TERMINATIONS ON DEVICE TERMINALS ONLY.

8 WIRE RUN J-BOX DETAIL N.T.S.

OHM VALUE	1ST BAND	2ND BAND	3RD BAND	4TH BAND	WATTAGE VALUE
470	YELLOW	VIOLET	BROWN	GOLD	1 WATT
560	GREEN	BLUE	BROWN	GOLD	1 WATT
1K	BROWN	BLACK	RED	GOLD	1 WATT
3.3K	ORANGE	ORANGE	RED	GOLD	1 WATT
6.8K	BLUE	GRAY	RED	GOLD	1 WATT
10K	BROWN	BLACK	ORANGE	GOLD	1/2 WATT
100K	BROWN	BLACK	YELLOW	GOLD	1/2 WATT

COLOR	NO.
BLACK	0
BROWN	1
RED	2
ORANGE	3
YELLOW	4
GREEN	5
BLUE	6
VIOLET	7
GRAY	8
WHITE	9

NUMBER	NUMBER	NUMBER OF ZEROS	VALUE TOLERANCE
COLOR CODE			

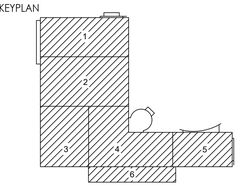
COLOR	TOLERANCE
GOLD	5%
SILVER	10%

9 END-OF-LINE RESISTOR COLOR CODE N.T.S.

Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04
Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Agency Approval

DSHPD No. I2300010-43-00
INCREMENT 4 - I2300010-43-04

Facility

Project

Title
DETAILS SHEET #5

Building ID:	Floor Lev:
Scale NTS	KP Proj. No.
Dwn By LW	Stantec No.
Chckd By VL	Sheet **H-FA057**

ORIGINAL SHEET - ARCH E1

PANEL F1 (EST4 VOICE PANEL) BATTERY CALCULATION

(SECONDARY POWER SOURCE REQUIREMENTS)

		QTY	PART NO.	DESCRIPTION	STANDBY CURRENT CURRENT DRAW (A)	STANDBY CURRENT TOTAL (A)	SECONDARY ALARM CURRENT CURRENT DRAW (A)	SECONDARY ALARM CURRENT TOTAL (A)
PANEL COMPONENTS		1	EST4 VOICE PANEL	FACP VOICE PANEL	0	0	0	0
		1	3-CAB14B	BACK BOX /W 14 LRM SPACE W/O DOOR	0	0	0	0
		1	3-CAB14DR	RED DOOR ASSEMBLY FOR 3-CAB14	0	0	0	0
		2	3-CHAS7	CHASSIS ASSY FOR 7 LRMS	0	0	0	0
		2	3-SDDC2	SIGNATURE DUAL DRIVER CONTROLLER (LRM)	0.264	0.5280	0.336	0.6720
		1	3-ZA40B	40 WATT ZONED AMPLIFIER, CLASS B, 25 OR 70VRMS	0.062	0.062	2.48	2.48
		1	4-CPU	MAIN CPU	0.211	0.211	0.211	0.211
		16	4-FIL	BLANK FILLER	0	0	0	0
		2	4-NET-TP	TWISTED PAIR SFP NETWORK CONTROLLER	0.032	0.064	0.032	0.064
		2	4-PPS/M	PRIMARY POWER SUPPLY 120V	0	0	0	0
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
F1-S1	NAC	2	APS10A	REMOTE AUXILIARY/BOOSTER POWER SUPPLY, 10A, 120VAC, RED	0	0	0	0
F1-1+L1	P	1	SIGA-270	SINGLE ACTION, SINGLE STAGE FIRE ALARM STATION	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	CR	3	SIGA-CR	CONTROL RELAY MODULE				
	CT1	2	SIGA-CT1	SINGLE INPUT MODULE				
		4	SIGA-HRD W/SIGA-SB4 BASE	INTELLIGENT FIXED TEMPERATURE/RATE-OF-RISE HEAT DETECTOR, STANDARD DETECTOR BASE				
	S	57	SIGA-OSD W/SIGA-SB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
F1-1+L1	MFCA	7	MFC-A	MULTI-FUNCTION CABINET W/ UIO6R AND MCT2	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	P	2	SIGA-270	SINGLE ACTION, SINGLE STAGE FIRE ALARM STATION				
	CR	26	SIGA-CR	CONTROL RELAY MODULE				
	CT1	1	SIGA-CT1	SINGLE INPUT MODULE				
		5	SIGA-HRD W/SIGA-SB4 BASE	INTELLIGENT FIXED TEMPERATURE/RATE-OF-RISE HEAT DETECTOR, STANDARD DETECTOR BASE				
	IM	2	SIGA-IM2	ISOLATOR MODULE				
	S	3	SIGA-OSD W/SIGA-AB4G-LF BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
	S	92	SIGA-OSD W/SIGA-SB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
F1-2+L2	MFCA	24	MFC-A	MULTI-FUNCTION CABINET W/ UIO6R AND MCT2	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	P	1	SIGA-270	SINGLE ACTION, SINGLE STAGE FIRE ALARM STATION				
	CR	11	SIGA-CR	CONTROL RELAY MODULE				
	CT1	6	SIGA-CT1	SINGLE INPUT MODULE				
	CT2	1	SIGA-CT2	DUAL INPUT MODULE				
		3	SIGA-HRD W/SIGA-SB4 BASE	INTELLIGENT FIXED TEMPERATURE/RATE-OF-RISE HEAT DETECTOR, STANDARD DETECTOR BASE				
	IM	2	SIGA-IM2	ISOLATOR MODULE				
	S	87	SIGA-OSD W/SIGA-SB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
F1-2+L2	P	1	SIGA-270	SINGLE ACTION, SINGLE STAGE FIRE ALARM STATION	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	CR	5	SIGA-CR	CONTROL RELAY MODULE				
	CT1	1	SIGA-CT1	SINGLE INPUT MODULE				
	CT2	1	SIGA-CT2	DUAL INPUT MODULE				
	S	64	SIGA-OSD W/SIGA-SB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
					TOTAL STANDBY (A)	0.8650	TOTAL ALARM (A)	3.43
					REQUIRED STANDBY TIME (HOURS)		24	
					REQUIRED ALARM TIME (MINUTES)		15	
SECONDARY STANDBY LOAD (A)			0.8650		24		20.76	
SECONDARY ALARM LOAD (A)			3.43		0.25		0.856750	
STANDBY AND ALARM SUBTOTAL (AMP HOURS)					21.62			
DERATING FACTOR					1.25			
SECONDARY LOAD REQUIREMENTS (AMP HOURS)					27.02			
PROVIDE (2) 12V 40AH BATTERIES								

PANEL F2 (EST4 VOICE PANEL) BATTERY CALCULATION

(SECONDARY POWER SOURCE REQUIREMENTS)

		QTY	PART NO.	DESCRIPTION	STANDBY CURRENT CURRENT DRAW (A)	STANDBY CURRENT TOTAL (A)	SECONDARY ALARM CURRENT CURRENT DRAW (A)	SECONDARY ALARM CURRENT TOTAL (A)
PANEL COMPONENTS		1	EST4 VOICE PANEL	FACP VOICE PANEL	0	0	0	0
		1	3-CAB14B	BACK BOX /W 14 LRM SPACE W/O DOOR	0	0	0	0
		1	3-CAB14DR	RED DOOR ASSEMBLY FOR 3-CAB14	0	0	0	0
		2	3-CHAS7	CHASSIS ASSY FOR 7 LRMS	0	0	0	0
		4	3-SDDC2	SIGNATURE DUAL DRIVER CONTROLLER (LRM)	0.264	1.06	0.336	1.34
		1	3-ZA40B	40 WATT ZONED AMPLIFIER, CLASS B, 25 OR 70VRMS	0.062	0.062	2.48	2.48
		8	4-24L	DISPLAY MODULE,24 LED	0.003	0.024	0.0056	0.0448
		2	4-24L24S	CNTRL DISPLAY,24 LED,24 SWITCH	0.003	0.006	0.0056	0.0112
		1	4-AUDTELS	AUDIO/TELEPHONE RISER SOURCE MODULE	0.085	0.085	0.101	0.101
		1	4-CPU	MAIN CPU	0.211	0.211	0.211	0.211
		3	4-FIL	BLANK FILLER	0	0	0	0
		1	4-LCDLE	DISPLAY,MAIN LCD MODULE	0.04	0.04	0.093	0.093
		1	4-MIC	PAGING MICROPHONE	0.008	0.008	0.038	0.038
		1	4-NET-AD	NETWORK EXPANDER MODULE	0.092	0.092	0.092	0.092
		2	4-NET-TP	TWISTED PAIR SFP NETWORK CONTROLLER	0.032	0.064	0.032	0.064
		2	4-PPS/M	PRIMARY POWER SUPPLY 120V	0	0	0	0
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
F2-AUX1	FAA	1	4-2ANN	ANNUNCIATOR ASSEMBLY - CONFIGURATION 2302092	0	0	0	0
F2-S1	NAC	3	APS10A	REMOTE AUXILIARY/BOOSTER POWER SUPPLY, 10A, 120VAC, RED	0	0	0	0
F2-1+L1	P	3	SIGA-270	SINGLE ACTION, SINGLE STAGE FIRE ALARM STATION	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	CR	9	SIGA-CR	CONTROL RELAY MODULE				
	CT1	9	SIGA-CT1	SINGLE INPUT MODULE				
	CT2	2	SIGA-CT2	DUAL INPUT MODULE				
		2	SIGA-HRD W/SIGA-SB4 BASE	INTELLIGENT FIXED TEMPERATURE/RATE-OF-RISE HEAT DETECTOR, STANDARD DETECTOR BASE				
	S	81	SIGA-OSD W/SIGA-SB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
F2-1+L1	MFCA	7	MFC-A	MULTI-FUNCTION CABINET W/ UIO6R AND MCT2	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	P	3	SIGA-270	SINGLE ACTION, SINGLE STAGE FIRE ALARM STATION				
	CR	8	SIGA-CR	CONTROL RELAY MODULE				
	CT1	29	SIGA-CT1	SINGLE INPUT MODULE				
	S	43	SIGA-OSD W/SIGA-SB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
F2-2+L2	NAC	6	APS10A	REMOTE AUXILIARY/BOOSTER POWER SUPPLY, 10A, 120VAC, RED	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	CC1S	13	SIGA-CC1S	SIGNATURE SINGLE INPUT SIGNAL SYNCHRONIZATION MODULE				
	IM	4	SIGA-IM2	ISOLATOR MODULE				
F2-2+L2	P	7	SIGA-270	SINGLE ACTION, SINGLE STAGE FIRE ALARM STATION	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	CC1	1	SIGA-CC1	SIGNAL MODULE /W 1 RISER IN, 1 OUTPUT CKT, CL 'B'				
	CT1	2	SIGA-CT1	SINGLE INPUT MODULE				
	CT2	2	SIGA-CT2	DUAL INPUT MODULE				
	S	49	SIGA-OSD W/SIGA-SB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
F2-3+L3	MFCA	5	MFC-A	MULTI-FUNCTION CABINET W/ UIO6R AND MCT2	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	P	3	SIGA-270	SINGLE ACTION, SINGLE STAGE FIRE ALARM STATION				
	CC1	1	SIGA-CC1	SIGNAL MODULE /W 1 RISER IN, 1 OUTPUT CKT, CL 'B'				
	CR	7	SIGA-CR	CONTROL RELAY MODULE				
	CT1	7	SIGA-CT1	SINGLE INPUT MODULE				
	CT2	1	SIGA-CT2	DUAL INPUT MODULE				
		1	SIGA-HRD W/SIGA-SB4 BASE	INTELLIGENT FIXED TEMPERATURE/RATE-OF-RISE HEAT DETECTOR, STANDARD DETECTOR BASE				
	S	67	SIGA-OSD W/SIGA-SB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
F2-3+L3	MFCA	5	MFC-A	MULTI-FUNCTION CABINET W/ UIO6R AND MCT2	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	P	1	SIGA-270	SINGLE ACTION, SINGLE STAGE FIRE ALARM STATION				
	CR	13	SIGA-CR	CONTROL RELAY MODULE				
	CT1	4	SIGA-CT1	SINGLE INPUT MODULE				
		1	SIGA-HRD W/SIGA-SB4 BASE	INTELLIGENT FIXED TEMPERATURE/RATE-OF-RISE HEAT DETECTOR, STANDARD DETECTOR BASE				
	S	71	SIGA-OSD W/SIGA-SB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
F2-4+L4	P	1	SIGA-270	SINGLE ACTION, SINGLE STAGE FIRE ALARM STATION	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	CR	11	SIGA-CR	CONTROL RELAY MODULE				
	CT1	12	SIGA-CT1	SINGLE INPUT MODULE				
		1	SIGA-HRD W/SIGA-SB4 BASE	INTELLIGENT FIXED TEMPERATURE/RATE-OF-RISE HEAT DETECTOR, STANDARD DETECTOR BASE				
	IM	2	SIGA-IM2	ISOLATOR MODULE				
	S	106	SIGA-OSD W/SIGA-SB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
F2-4+L4	P	1	SIGA-270	SINGLE ACTION, SINGLE STAGE FIRE ALARM STATION	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	CR	9	SIGA-CR	CONTROL RELAY MODULE				
	CT1	3	SIGA-CT1	SINGLE INPUT MODULE				
	CT2	2	SIGA-CT2	DUAL INPUT MODULE				
	IM	2	SIGA-IM2	ISOLATOR MODULE				
	S	102	SIGA-OSD W/SIGA-SB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
					TOTAL STANDBY (A)	1.65	TOTAL ALARM (A)	4.48
					REQUIRED STANDBY TIME (HOURS)		24	
					REQUIRED ALARM TIME (MINUTES)		15	
SECONDARY STANDBY LOAD (A)			1.65		24		39.55	
SECONDARY ALARM LOAD (A)			4.48		0.25		1.12	
STANDBY AND ALARM SUBTOTAL (AMP HOURS)					40.67			
DERATING FACTOR					1.25			
SECONDARY LOAD REQUIREMENTS (AMP HOURS)					50.84			
PROVIDE (2) 12V 65AH BATTERIES								

PANEL F3 (EST4 VOICE PANEL) BATTERY CALCULATION

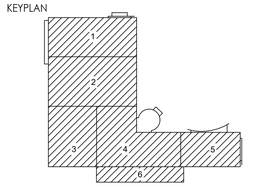
(SECONDARY POWER SOURCE REQUIREMENTS)

		QTY	PART NO.	DESCRIPTION	STANDBY CURRENT CURRENT DRAW (A)	STANDBY CURRENT TOTAL (A)	SECONDARY ALARM CURRENT CURRENT DRAW (A)	SECONDARY ALARM CURRENT TOTAL (A)
PANEL COMPONENTS		1	EST4 VOICE PANEL	FACP VOICE PANEL	0	0	0	0
		1	3-CAB7B	BACK BOX /W 7 LRM SPACE W/O DOOR	0	0	0	0
		1	3-CAB7DR	RED DOOR ASSEMBLY FOR 3-CAB7	0	0	0	0
		1	3-CHAS7	CHASSIS ASSY FOR 7 LRMS	0	0	0	0
		3	3-SDDC2	SIGNATURE DUAL DRIVER CONTROLLER (LRM)	0.264	0.7920	0.336	1.01
		1	3-SSDC2	SIGNATURE SINGLE DRIVER CONTROLLER (LRM)	0.144	0.144	0.204	0.204
		2	4-24L	DISPLAY MODULE,24 LED	0.003	0.006	0.0056	0.0112
		1	4-CPU	MAIN CPU	0.211	0.211	0.211	0.211
		6	4-FIL	BLANK FILLER	0	0	0	0
		2	4-NET-TP	TWISTED PAIR SFP NETWORK CONTROLLER	0.032	0.064	0.032	0.064
		1	4-PPS/M	PRIMARY POWER SUPPLY 120V	0	0	0	0
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
F3-1+L4	CRH	38	SIGA-CRH	CONTROL RELAY MODULE (HIGH CURRENT)	0	0	0	0
	CT2	38	SIGA-CT2	DUAL INPUT MODULE	0.000396	0.015048	0.00068	0.02584
	S	5	SIGA-DDOS	OPTICA DUCT DETECTOR	0.00005	0.00025	0.00006	0.0003
F3-1+L1	CRH	33	SIGA-CRH	CONTROL RELAY MODULE (HIGH CURRENT)	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	CT2	33	SIGA-CT2	DUAL INPUT MODULE				
	S	2	SIGA-DDOS	OPTICA DUCT DETECTOR				
	IM	3	SIGA-IM2	ISOLATOR MODULE				
F3-1+L1	CRH	17	SIGA-CRH	CONTROL RELAY MODULE (HIGH CURRENT)	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	CT2	17	SIGA-CT2	DUAL INPUT MODULE				
	S	5	SIGA-DDOS	OPTICA DUCT DETECTOR				
	IM	2	SIGA-IM2	ISOLATOR MODULE				
F3-2+L2	CRH	41	SIGA-CRH	CONTROL RELAY MODULE (HIGH CURRENT)	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	CT2	41	SIGA-CT2	DUAL INPUT MODULE				
	IM	2	SIGA-IM2	ISOLATOR MODULE				
F3-2+L2	CRH	34	SIGA-CRH	CONTROL RELAY MODULE (HIGH CURRENT)	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	CT2	34	SIGA-CT2	DUAL INPUT MODULE				
	S	5	SIGA-DDOS	OPTICA DUCT DETECTOR				
	IM	3	SIGA-IM2	ISOLATOR MODULE				
F3-3+L3	CRH	31	SIGA-CRH	CONTROL RELAY MODULE (HIGH CURRENT)	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	CT2	31	SIGA-CT2	DUAL INPUT MODULE				
	S	1	SIGA-DDOS	OPTICA DUCT DETECTOR				
	IM	2	SIGA-IM2	ISOLATOR MODULE				
F3-3+L3	CRH	28	SIGA-CRH	CONTROL RELAY MODULE (HIGH CURRENT)	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	CT2	28	SIGA-CT2	DUAL INPUT MODULE				
	S	4	SIGA-DDOS	OPTICA DUCT DETECTOR				
					TOTAL STANDBY (A)	1.23	TOTAL ALARM (A)	1.52
					REQUIRED STANDBY TIME (HOURS)		24	
					REQUIRED ALARM TIME (MINUTES)		15	
SECONDARY STANDBY LOAD (A)			1.23		24		29.58	
SECONDARY ALARM LOAD (A)			1.52		0.25		0.381085	
STANDBY AND ALARM SUBTOTAL (AMP HOURS)					29.96			
DERATING FACTOR					1.25			
SECONDARY LOAD REQUIREMENTS (AMP HOURS)					37.45			
PROVIDE (2) 12V 40AH BATTERIES								

Consultant

Architect / Engineer of Record

KEYPLAN



Revision

	By	Appd	YYYY.MM.DD

INCREMENT 4 SEG 3B SUBMISSION #1 2025.03.04

Issued

	By	Appd	YYYY.MM.DD
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Agency Approval

OSHPD No. I230010-43-00

INCREMENT 4 - I230010-43-04

Facility

Project

Title

CALCULATIONS SHEET #1

Building ID	Floor Lev.
Scale NTS	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	

Sheet

H-FA058

ORIGINAL SHEET - ARCH E1

PANEL F4 (EST4 VOICE PANEL) BATTERY CALCULATION

(SECONDARY POWER SOURCE REQUIREMENTS)

		QTY	PART NO.	DESCRIPTION	STANDBY CURRENT CURRENT DRAW (A)	STANDBY CURRENT TOTAL (A)	SECONDARY ALARM CURRENT CURRENT DRAW (A)	SECONDARY ALARM CURRENT TOTAL (A)
PANEL COMPONENTS		1	EST4 VOICE PANEL	FACP VOICE PANEL	0	0	0	0
		1	3-CAB14B	BACK BOX /W 14 LRM SPACE W/O DOOR	0	0	0	0
		1	3-CAB14DR	RED DOOR ASSEMBLY FOR 3-CAB14	0	0	0	0
		2	3-CHAS7	CHASSIS ASSY FOR 7 LRMS	0	0	0	0
		3	3-SDDC2	SIGNATURE DUAL DRIVER CONTROLLER (LRM)	0.264	0.7920	0.336	1.01
		1	3-ZA40B	40 WATT ZONED AMPLIFIER, CLASS B, 25 OR 70VRMS	0.062	0.062	2.48	2.48
		1	4-CPU	MAIN CPU	0.211	0.211	0.211	0.211
		16	4-FIL	BLANK FILLER	0	0	0	0
		2	4-NET-TP	TWISTED PAIR SFP NETWORK CONTROLLER	0.032	0.064	0.032	0.064
		2	4-PPS/M	PRIMARY POWER SUPPLY 120V	0	0	0	0
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
F4•S1	APS	2	APS10A	REMOTE AUXILIARY/BOOSTER POWER SUPPLY, 10A, 120VAC, RED	0	0	0	0
F4•1•L1	CR	1	SIGA-CR	CONTROL RELAY MODULE	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
		5	SIGA-HRD W/SIGA-SB4 BASE	INTELLIGENT FIXED TEMPERATURE/RATE-OF-RISE HEAT DETECTOR, STANDARD DETECTOR BASE				
	S	10	SIGA-OSD W/SIGA-AB4G-LF BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
	S	74	SIGA-OSD W/SIGA-SB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
F4•1•L2	P	1	SIGA-270	SINGLE ACTION, SINGLE STAGE FIRE ALARM STATION	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	CR	11	SIGA-CR	CONTROL RELAY MODULE				
	IM	3	SIGA-IM2	ISOLATOR MODULE				
	S	93	SIGA-OSD W/SIGA-SB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
F4•2•L1	MFCA	7	MFC-A	MULTI-FUNCTION CABINET	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	P	1	SIGA-270	SINGLE ACTION, SINGLE STAGE FIRE ALARM STATION				
	CR	7	SIGA-CR	CONTROL RELAY MODULE				
	CT1	1	SIGA-CT1	SINGLE INPUT MODULE				
	CT2	1	SIGA-CT2	DUAL INPUT MODULE				
		17	SIGA-HRD W/SIGA-SB4 BASE	INTELLIGENT FIXED TEMPERATURE/RATE-OF-RISE HEAT DETECTOR, STANDARD DETECTOR BASE				
	S R	17	SIGA-OSD W/SIGA-RB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
	S	28	SIGA-OSD W/SIGA-SB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
F4•2•L2	P	1	SIGA-270	SINGLE ACTION, SINGLE STAGE FIRE ALARM STATION	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	CR	10	SIGA-CR	CONTROL RELAY MODULE				
	CT1	1	SIGA-CT1	SINGLE INPUT MODULE				
	CT2	1	SIGA-CT2	DUAL INPUT MODULE				
		7	SIGA-HRD W/SIGA-SB4 BASE	INTELLIGENT FIXED TEMPERATURE/RATE-OF-RISE HEAT DETECTOR, STANDARD DETECTOR BASE				
	S R	7	SIGA-OSD W/SIGA-RB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
	S	62	SIGA-OSD W/SIGA-SB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
F4•3•L3	MFCA	5	MFC-A	MULTI-FUNCTION CABINET	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	P	1	SIGA-270	SINGLE ACTION, SINGLE STAGE FIRE ALARM STATION				
	CR	10	SIGA-CR	CONTROL RELAY MODULE				
	CT1	1	SIGA-CT1	SINGLE INPUT MODULE				
	CT2	1	SIGA-CT2	DUAL INPUT MODULE				
	S	57	SIGA-OSD W/SIGA-SB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
F4•3•L3	P	1	SIGA-270	SINGLE ACTION, SINGLE STAGE FIRE ALARM STATION	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	CR	20	SIGA-CR	CONTROL RELAY MODULE				
	CT1	1	SIGA-CT1	SINGLE INPUT MODULE				
	CT2	1	SIGA-CT2	DUAL INPUT MODULE				
	IM	3	SIGA-IM2	ISOLATOR MODULE				
	S	99	SIGA-OSD W/SIGA-SB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				

TOTAL STANDBY (A)	1.13	TOTAL ALARM (A)	3.76
REQUIRED STANDBY TIME (HOURS)		24	
REQUIRED ALARM TIME (MINUTES)		15	
SECONDARY STANDBY LOAD (A)	1.13	24	27.10
SECONDARY ALARM LOAD (A)	3.76	0.25	0.940750
STANDBY AND ALARM SUBTOTAL (AMP HOURS)		28.04	
DERATING FACTOR		1.25	
SECONDARY LOAD REQUIREMENTS (AMP HOURS)		35.05	
PROVIDE (2) 12V 40AH BATTERIES			

PANEL F5 (EST4 VOICE PANEL) BATTERY CALCULATION

(SECONDARY POWER SOURCE REQUIREMENTS)

		QTY	PART NO.	DESCRIPTION	STANDBY CURRENT CURRENT DRAW (A)	STANDBY CURRENT TOTAL (A)	SECONDARY ALARM CURRENT CURRENT DRAW (A)	SECONDARY ALARM CURRENT TOTAL (A)
PANEL COMPONENTS		1	EST4 VOICE PANEL	FACP VOICE PANEL	0	0	0	0
		1	3-CAB14B	BACK BOX /W 14 LRM SPACE W/O DOOR	0	0	0	0
		1	3-CAB14DR	RED DOOR ASSEMBLY FOR 3-CAB14	0	0	0	0
		2	3-CHAS7	CHASSIS ASSY FOR 7 LRMS	0	0	0	0
		5	3-SDDC2	SIGNATURE DUAL DRIVER CONTROLLER (LRM)	0.264	1.32	0.336	1.68
		1	4-CPU	MAIN CPU	0.211	0.211	0.211	0.211
		16	4-FIL	BLANK FILLER	0	0	0	0
		2	4-NET-TP	TWISTED PAIR SFP NETWORK CONTROLLER	0.032	0.064	0.032	0.064
		1	4-PPS/M	PRIMARY POWER SUPPLY 120V	0	0	0	0
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
F5•1•L1	CRH	22	SIGA-CRH	CONTROL RELAY MODULE (HIGH CURRENT)	0	0	0	0
	CT2	22	SIGA-CT2	DUAL INPUT MODULE	0	0	0	0
	CT2	22	SIGA-CT2	DUAL INPUT MODULE	0.000396	0.008712	0.00068	0.01496
F5•1•L1	CRH	39	SIGA-CRH	CONTROL RELAY MODULE (HIGH CURRENT)	0	0	0	0
	CT2	39	SIGA-CT2	DUAL INPUT MODULE	0	0	0	0
	CT2	39	SIGA-CT2	DUAL INPUT MODULE	0.000396	0.015444	0.00068	0.02652
	IM	2	SIGA-IM2	ISOLATOR MODULE	0	0	0	0
F5•2•L2	CRH	21	SIGA-CRH	CONTROL RELAY MODULE (HIGH CURRENT)	0	0	0	0
	CT2	21	SIGA-CT2	DUAL INPUT MODULE	0	0	0	0
	CT2	21	SIGA-CT2	DUAL INPUT MODULE	0.000396	0.008316	0.00068	0.01428
F5•2•L2	CRH	29	SIGA-CRH	CONTROL RELAY MODULE (HIGH CURRENT)	0	0	0	0
	CT2	29	SIGA-CT2	DUAL INPUT MODULE	0	0	0	0
	CT2	29	SIGA-CT2	DUAL INPUT MODULE	0.000396	0.011484	0.00068	0.01972
	S	4	SIGA-DDOS	OPTICA INTELLIGENT DUCT DETECTOR	0.00005	0.0002	0.00006	0.00024
	IM	2	SIGA-IM2	ISOLATOR MODULE	0	0	0	0
F5•3•L3	CRH	27	SIGA-CRH	CONTROL RELAY MODULE (HIGH CURRENT)	0	0	0	0
	CT2	27	SIGA-CT2	DUAL INPUT MODULE	0	0	0	0
	CT2	27	SIGA-CT2	DUAL INPUT MODULE	0.000396	0.010692	0.00068	0.01836
	S	4	SIGA-DDOS	OPTICA INTELLIGENT DUCT DETECTOR	0.00005	0.0002	0.00006	0.00024
F5•3•L3	CRH	35	SIGA-CRH	CONTROL RELAY MODULE (HIGH CURRENT)	0	0	0	0
	CT2	35	SIGA-CT2	DUAL INPUT MODULE	0	0	0	0
	CT2	35	SIGA-CT2	DUAL INPUT MODULE	0.000396	0.01386	0.00068	0.0238
F5•4•L4	CRH	34	SIGA-CRH	CONTROL RELAY MODULE (HIGH CURRENT)	0	0	0	0
	CT2	34	SIGA-CT2	DUAL INPUT MODULE	0	0	0	0
	CT2	34	SIGA-CT2	DUAL INPUT MODULE	0.000396	0.013464	0.00068	0.02312
	S	1	SIGA-DDOS	OPTICA INTELLIGENT DUCT DETECTOR	0.00005	0.00005	0.00006	0.00006
F5•4•L4	CRH	33	SIGA-CRH	CONTROL RELAY MODULE (HIGH CURRENT)	0	0	0	0
	CT2	33	SIGA-CT2	DUAL INPUT MODULE	0	0	0	0
	CT2	33	SIGA-CT2	DUAL INPUT MODULE	0.000396	0.013068	0.00068	0.02244
	S	6	SIGA-DDOS	OPTICA INTELLIGENT DUCT DETECTOR	0.00005	0.0003	0.00006	0.00036
	IM	2	SIGA-IM2	ISOLATOR MODULE	0	0	0	0
F5•5•L5	CRH	31	SIGA-CRH	CONTROL RELAY MODULE (HIGH CURRENT)	0	0	0	0
	CT2	31	SIGA-CT2	DUAL INPUT MODULE	0	0	0	0
	CT2	31	SIGA-CT2	DUAL INPUT MODULE	0.000396	0.012276	0.00068	0.02108
	S	11	SIGA-DDOS	OPTICA INTELLIGENT DUCT DETECTOR	0.00005	0.00055	0.00006	0.00066
	IM	2	SIGA-IM2	ISOLATOR MODULE	0	0	0	0
F5•5•L5	CRH	27	SIGA-CRH	CONTROL RELAY MODULE (HIGH CURRENT)	0	0	0	0
	CT2	27	SIGA-CT2	DUAL INPUT MODULE	0	0	0	0
	CT2	27	SIGA-CT2	DUAL INPUT MODULE	0.000396	0.010692	0.00068	0.01836
	S	1	SIGA-DDOS	OPTICA INTELLIGENT DUCT DETECTOR	0.00005	0.00005	0.00006	0.00006

TOTAL STANDBY (A)	1.71	TOTAL ALARM (A)	2.16
REQUIRED STANDBY TIME (HOURS)		24	
REQUIRED ALARM TIME (MINUTES)		15	
SECONDARY STANDBY LOAD (A)	1.71	24	41.14
SECONDARY ALARM LOAD (A)	2.16	0.25	0.540
STANDBY AND ALARM SUBTOTAL (AMP HOURS)		41.68	
DERATING FACTOR		1.25	
SECONDARY LOAD REQUIREMENTS (AMP HOURS)		52.11	
PROVIDE (2) 12V 65AH BATTERIES			

PANEL F6 (EST4 VOICE PANEL) BATTERY CALCULATION

(SECONDARY POWER SOURCE REQUIREMENTS)

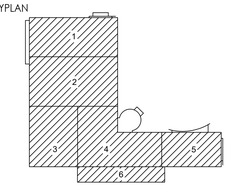
		QTY	PART NO.	DESCRIPTION	STANDBY CURRENT CURRENT DRAW (A)	STANDBY CURRENT TOTAL (A)	SECONDARY ALARM CURRENT CURRENT DRAW (A)	SECONDARY ALARM CURRENT TOTAL (A)
PANEL COMPONENTS		1	EST4 VOICE PANEL	FACP VOICE PANEL	0	0	0	0
		1	3-CAB14B	BACK BOX /W 14 LRM SPACE W/O DOOR	0	0	0	0
		1	3-CAB14DR	RED DOOR ASSEMBLY FOR 3-CAB14	0	0	0	0
		2	3-CHAS7	CHASSIS ASSY FOR 7 LRMS	0	0	0	0
		2	3-SDDC2	SIGNATURE DUAL DRIVER CONTROLLER (LRM)	0.264	0.5280	0.336	0.6720
		1	3-ZA40B	40 WATT ZONED AMPLIFIER, CLASS B, 25 OR 70VRMS	0.062	0.062	2.48	2.48
		1	4-CPU	MAIN CPU	0.211	0.211	0.211	0.211
		16	4-FIL	BLANK FILLER	0	0	0	0
		2	4-NET-TP	TWISTED PAIR SFP NETWORK CONTROLLER	0.032	0.064	0.032	0.064
		2	4-PPS/M	PRIMARY POWER SUPPLY 120V	0	0	0	0
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
F6•S1	APS	2	APS10A	REMOTE AUXILIARY/BOOSTER POWER SUPPLY, 10A, 120VAC, RED	0	0	0	0
F6•1•L1	MFCA	4	MFC-A	MULTI-FUNCTION CABINET	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	P	1	SIGA-270	SINGLE ACTION, SINGLE STAGE FIRE ALARM STATION				
	CR	7	SIGA-CR	CONTROL RELAY MODULE				
	CT1	1	SIGA-CT1	SINGLE INPUT MODULE				
	CT2	1	SIGA-CT2	DUAL INPUT MODULE				
	CT2	1	SIGA-CT2	DUAL INPUT MODULE				
		24	SIGA-HRD W/SIGA-SB4 BASE	INTELLIGENT FIXED TEMPERATURE/RATE-OF-RISE HEAT DETECTOR, STANDARD DETECTOR BASE				
	S R	24	SIGA-OSD W/SIGA-RB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
	S	34	SIGA-OSD W/SIGA-SB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
F6•1•L1	P	1	SIGA-270	SINGLE ACTION, SINGLE STAGE FIRE ALARM STATION	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	CR	17	SIGA-CR	CONTROL RELAY MODULE				
	CT1	1	SIGA-CT1	SINGLE INPUT MODULE				
	S	12	SIGA-DDOS	OPTICA INTELLIGENT DUCT DETECTOR				
		12	SIGA-HRD W/SIGA-SB4 BASE	INTELLIGENT FIXED TEMPERATURE/RATE-OF-RISE HEAT DETECTOR, STANDARD DETECTOR BASE				
	S R	12	SIGA-OSD W/SIGA-RB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
	S	63	SIGA-OSD W/SIGA-SB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
F6•2•L2	CR	11	SIGA-CR	CONTROL RELAY MODULE	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	CT2	1	SIGA-CT2	DUAL INPUT MODULE				
	CT2	1	SIGA-CT2	DUAL INPUT MODULE				
		6	SIGA-HRD W/SIGA-SB4 BASE	INTELLIGENT FIXED TEMPERATURE/RATE-OF-RISE HEAT DETECTOR, STANDARD DETECTOR BASE				
	S	8	SIGA-OSD W/SIGA-AB4G-LF BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
	S R	7	SIGA-OSD W/SIGA-RB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
	S	61	SIGA-OSD W/SIGA-SB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
F6•2•L2	MFCA	3	MFC-A	MULTI-FUNCTION CABINET	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	P	2	SIGA-270	SINGLE ACTION, SINGLE STAGE FIRE ALARM STATION				
	CR	28	SIGA-CR	CONTROL RELAY MODULE				
	CT1	1	SIGA-CT1	SINGLE INPUT MODULE				
	CT2	2	SIGA-CT2	DUAL INPUT MODULE				
		14	SIGA-HRD W/SIGA-SB4 BASE	INTELLIGENT FIXED TEMPERATURE/RATE-OF-RISE HEAT DETECTOR, STANDARD DETECTOR BASE				
	IM	2	SIGA-IM2	ISOLATOR MODULE				
	S R	15	SIGA-OSD W/SIGA-RB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
	S	81	SIGA-OSD W/SIGA-SB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				

TOTAL STANDBY (A)	0.8650	TOTAL ALARM (A)	3.43
REQUIRED STANDBY TIME (HOURS)		24	
REQUIRED ALARM TIME (MINUTES)		15	
SECONDARY STANDBY LOAD (A)	0.8650	24	20.76
SECONDARY ALARM LOAD (A)	3.43	0.25	0.856750
STANDBY AND ALARM SUBTOTAL (AMP HOURS)		21.62	
DERATING FACTOR		1.25	
SECONDARY LOAD REQUIREMENTS (AMP HOURS)		27.02	
PROVIDE (2) 12V 40AH BATTERIES			

Consultant

Architect / Engineer of Record

KEYPLAN



Revision

	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG.3B SUBMISSION #1			2025.03.04

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	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Agency Approval

OSHPD No. I230010-43-00

INCREMENT 4 - I230010-43-04

Facility

Project

Title

CALCULATIONS SHEET #2

Building ID	Floor Lev.
Scale NTS	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA059

ORIGINAL SHEET - ARCH E1

PANEL F7 (EST4 VOICE PANEL) BATTERY CALCULATION

(SECONDARY POWER SOURCE REQUIREMENTS)

					STANDBY CURRENT		SECONDARY ALARM CURRENT	
		QTY	PART NO.	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
PANEL COMPONENTS		1	EST4 VOICE PANEL	FACP VOICE PANEL	0	0	0	0
		1	3-CAB7B	BACK BOX /W 7 LRM SPACE W/O DOOR	0	0	0	0
		1	3-CAB7DR	RED DOOR ASSEMBLY FOR 3-CAB7	0	0	0	0
		1	3-CHAS7	CHASSIS ASSY FOR 7 LRMS	0	0	0	0
		3	3-SDDC2	SIGNATURE DUAL DRIVER CONTROLLER (LRM)	0.264	0.7920	0.336	1.01
		1	4-CPU	MAIN CPU	0.211	0.211	0.211	0.211
		16	4-FIL	BLANK FILLER	0	0	0	0
		2	4-NET-TP	TWISTED PAIR SFP NETWORK CONTROLLER	0.032	0.064	0.032	0.064
		1	4-PPS/M	PRIMARY POWER SUPPLY 120V	0	0	0	0
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
F7•1•L3	CRH	35	SIGA-CRH	CONTROL RELAY MODULE (HIGH CURRENT)	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	CT2	35	SIGA-CT2	DUAL INPUT MODULE				
	CT2	35	SIGA-CT2	DUAL INPUT MODULE				
	S	4	SIGA-DDOS	OPTICA INTELLIGENT DUCT DETECTOR				
F7•1•L3	CRH	39	SIGA-CRH	CONTROL RELAY MODULE (HIGH CURRENT)	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	CT2	39	SIGA-CT2	DUAL INPUT MODULE				
	CT2	39	SIGA-CT2	DUAL INPUT MODULE				
	S	2	SIGA-DDOS	OPTICA INTELLIGENT DUCT DETECTOR				
F7•2•L1	CRH	34	SIGA-CRH	CONTROL RELAY MODULE (HIGH CURRENT)	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	CT2	34	SIGA-CT2	DUAL INPUT MODULE				
	CT2	34	SIGA-CT2	DUAL INPUT MODULE				
F7•2•L1	CRH	32	SIGA-CRH	CONTROL RELAY MODULE (HIGH CURRENT)	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	CT2	32	SIGA-CT2	DUAL INPUT MODULE				
	CT2	32	SIGA-CT2	DUAL INPUT MODULE				
F7•3•L2	CRH	32	SIGA-CRH	CONTROL RELAY MODULE (HIGH CURRENT)	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	CT2	32	SIGA-CT2	DUAL INPUT MODULE				
	CT2	32	SIGA-CT2	DUAL INPUT MODULE				
F7•3•L2	CRH	22	SIGA-CRH	CONTROL RELAY MODULE (HIGH CURRENT)	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	CT2	20	SIGA-CT2	DUAL INPUT MODULE				
	CT2	22	SIGA-CT2	DUAL INPUT MODULE				
	M	2	SIGA-IM2	ISOLATOR MODULE				
					TOTAL STANDBY (A)	1.07	TOTAL ALARM (A)	1.28
					REQUIRED STANDBY TIME (HOURS)		24	
					REQUIRED ALARM TIME (MINUTES)		15	
SECONDARY STANDBY LOAD (A)		1.07			24		25.61	
SECONDARY ALARM LOAD (A)		1.28			0.25		0.32075	
STANDBY AND ALARM SUBTOTAL (AMP HOURS)					25.93			
DERATING FACTOR					1.25			
SECONDARY LOAD REQUIREMENTS (AMP HOURS)					32.41			
PROVIDE (2) 12V 40AH BATTERIES								

PANEL F8 (EST4 VOICE PANEL) BATTERY CALCULATION

(SECONDARY POWER SOURCE REQUIREMENTS)

					STANDBY CURRENT		SECONDARY ALARM CURRENT	
		QTY	PART NO.	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
PANEL COMPONENTS		1	EST4 VOICE PANEL	FACP VOICE PANEL	0	0	0	0
		1	3-CAB14B	BACK BOX /W 14 LRM SPACE W/O DOOR	0	0	0	0
		1	3-CAB14DR	RED DOOR ASSEMBLY FOR 3-CAB14	0	0	0	0
		2	3-CHAS7	CHASSIS ASSY FOR 7 LRMS	0	0	0	0
		2	3-SDDC2	SIGNATURE DUAL DRIVER CONTROLLER (LRM)	0.264	0.5280	0.336	0.6720
		1	3-ZA40B	40 WATT ZONED AMPLIFIER, CLASS B, 25 OR 70VRMS	0.062	0.062	2.48	2.48
		1	4-CPU	MAIN CPU	0.211	0.211	0.211	0.211
		16	4-FIL	BLANK FILLER	0	0	0	0
		2	4-NET-TP	TWISTED PAIR SFP NETWORK CONTROLLER	0.032	0.064	0.032	0.064
		2	4-PPS/M	PRIMARY POWER SUPPLY 120V	0	0	0	0
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
F8•L2	MFCA	3	MFC-A (MCT2)	MULTI-FUNCTION CABINET W/ UI/OR AND MCT2	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	F	1	SIGA-270	SINGLE ACTION, SINGLE STAGE FIRE ALARM STATION				
	CR	7	SIGA-CR	CONTROL RELAY MODULE				
	CT1	2	SIGA-CT1	SINGLE INPUT MODULE				
	CT2	1	SIGA-CT2	DUAL INPUT MODULE				
		24	SIGA-HRD W/SIGA-SB4 BASE	INTELLIGENT FIXED TEMPERATURE/RATE-OF-RISE HEAT DETECTOR, STANDARD DETECTOR BASE				
	S R	24	SIGA-OSD W/SIGA-RB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
	S	32	SIGA-OSD W/SIGA-SB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
F8•L2	F	1	SIGA-270	SINGLE ACTION, SINGLE STAGE FIRE ALARM STATION	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	CR	7	SIGA-CR	CONTROL RELAY MODULE				
		16	SIGA-HRD W/SIGA-SB4 BASE	INTELLIGENT FIXED TEMPERATURE/RATE-OF-RISE HEAT DETECTOR, STANDARD DETECTOR BASE				
	S LF	4	SIGA-OSD W/SIGA-AB4G-LF BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
	S R	12	SIGA-OSD W/SIGA-RB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
	S	43	SIGA-OSD W/SIGA-SB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
F8•L1	F	1	SIGA-270	SINGLE ACTION, SINGLE STAGE FIRE ALARM STATION	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	CR	5	SIGA-CR	CONTROL RELAY MODULE				
		12	SIGA-HRD W/SIGA-SB4 BASE	INTELLIGENT FIXED TEMPERATURE/RATE-OF-RISE HEAT DETECTOR, STANDARD DETECTOR BASE				
	S R	12	SIGA-OSD W/SIGA-RB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
	S	44	SIGA-OSD W/SIGA-SB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
F8•L1	MFCA	3	MFC-A (MCT2)	MULTI-FUNCTION CABINET W/ UI/OR AND MCT2	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	F	1	SIGA-270	SINGLE ACTION, SINGLE STAGE FIRE ALARM STATION				
	CR	7	SIGA-CR	CONTROL RELAY MODULE				
	CT1	1	SIGA-CT1	SINGLE INPUT MODULE				
	CT2	1	SIGA-CT2	DUAL INPUT MODULE				
		24	SIGA-HRD W/SIGA-SB4 BASE	INTELLIGENT FIXED TEMPERATURE/RATE-OF-RISE HEAT DETECTOR, STANDARD DETECTOR BASE				
	S R	24	SIGA-OSD W/SIGA-RB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
	S	33	SIGA-OSD W/SIGA-SB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
					TOTAL STANDBY (A)	0.8650	TOTAL ALARM (A)	3.43
					REQUIRED STANDBY TIME (HOURS)		24	
					REQUIRED ALARM TIME (MINUTES)		15	
SECONDARY STANDBY LOAD (A)		0.8650			24		20.76	
SECONDARY ALARM LOAD (A)		3.43			0.25		0.856750	
STANDBY AND ALARM SUBTOTAL (AMP HOURS)					21.62			
DERATING FACTOR					1.25			
SECONDARY LOAD REQUIREMENTS (AMP HOURS)					27.02			
PROVIDE (2) 12V 40AH BATTERIES								

PANEL F9 (EST4 VOICE PANEL) BATTERY CALCULATION

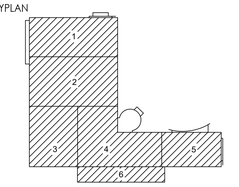
(SECONDARY POWER SOURCE REQUIREMENTS)

					STANDBY CURRENT		SECONDARY ALARM CURRENT	
		QTY	PART NO.	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
PANEL COMPONENTS		1	EST4 VOICE PANEL	FACP VOICE PANEL	0	0	0	0
		1	3-CAB7B	BACK BOX /W 7 LRM SPACE W/O DOOR	0	0	0	0
		1	3-CAB7DR	RED DOOR ASSEMBLY FOR 3-CAB7	0	0	0	0
		1	3-CHAS7	CHASSIS ASSY FOR 7 LRMS	0	0	0	0
		3	3-SDDC2	SIGNATURE DUAL DRIVER CONTROLLER (LRM)	0.264	0.7920	0.336	1.01
		1	4-CPU	MAIN CPU	0.211	0.211	0.211	0.211
		16	4-FIL	BLANK FILLER	0	0	0	0
		2	4-NET-TP	TWISTED PAIR SFP NETWORK CONTROLLER	0.032	0.064	0.032	0.064
		1	4-PPS/M	PRIMARY POWER SUPPLY 120V	0	0	0	0
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
F9•L1	CRH	33	SIGA-CRH	CONTROL RELAY MODULE (HIGH CURRENT)	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	CT2	33	SIGA-CT2	DUAL INPUT MODULE				
F9•L1	CRH	34	SIGA-CRH	CONTROL RELAY MODULE (HIGH CURRENT)	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	CT2	34	SIGA-CT2	DUAL INPUT MODULE				
F9•L2	CRH	22	SIGA-CRH	CONTROL RELAY MODULE (HIGH CURRENT)	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	CT2	22	SIGA-CT2	DUAL INPUT MODULE				
	S	1	SIGA-DDOS	OPTICA DUCT DETECTOR				
	M	2	SIGA-IM2	ISOLATOR MODULE				
F9•L2	CRH	41	SIGA-CRH	CONTROL RELAY MODULE (HIGH CURRENT)	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	CT2	41	SIGA-CT2	DUAL INPUT MODULE				
F9•L3	CRH	34	SIGA-CRH	CONTROL RELAY MODULE (HIGH CURRENT)	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	CT2	34	SIGA-CT2	DUAL INPUT MODULE				
F9•L3	CRH	29	SIGA-CRH	CONTROL RELAY MODULE (HIGH CURRENT)	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	CT2	29	SIGA-CT2	DUAL INPUT MODULE				
					TOTAL STANDBY (A)	1.07	TOTAL ALARM (A)	1.28
					REQUIRED STANDBY TIME (HOURS)		24	
					REQUIRED ALARM TIME (MINUTES)		15	
SECONDARY STANDBY LOAD (A)		1.07			24		25.61	
SECONDARY ALARM LOAD (A)		1.28			0.25		0.32075	
STANDBY AND ALARM SUBTOTAL (AMP HOURS)					25.93			
DERATING FACTOR					1.25			
SECONDARY LOAD REQUIREMENTS (AMP HOURS)					32.41			
PROVIDE (2) 12V 40AH BATTERIES								

Consultant

Architect / Engineer of Record

KEYPLAN



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	Dwn.	Dsgn.	Chkd.

Agency Approval

OSHPD No. 1230010-43-00

INCREMENT 4 - 1230010-43-04

Facility

Project

Title

CALCULATIONS SHEET #3

Building ID		Floor Lev.	
Scale	NTS	KP Proj. No.	
Dwn By	LW	Stantec No.	
Chckd By	VL	Sheet	H-FA060

ORIGINAL SHEET - ARCH E1

PANEL F10 (EST4 VOICE PANEL) BATTERY CALCULATION

(SECONDARY POWER SOURCE REQUIREMENTS)

PANEL COMPONENTS		QTY	PART NO.	DESCRIPTION	STANDBY CURRENT CURRENT DRAW (A)	STANDBY CURRENT TOTAL (A)	SECONDARY ALARM CURRENT CURRENT DRAW (A)	SECONDARY ALARM CURRENT TOTAL (A)
		1	EST4 VOICE PANEL	FACP VOICE PANEL	0	0	0	0
		1	3-CAB14B	BACK BOX /W 14 LRM SPACE W/O DOOR	0	0	0	0
		1	3-CAB14DR	RED DOOR ASSEMBLY FOR 3-CAB14	0	0	0	0
		2	3-CHAS7	CHASSIS ASSY FOR 7 LRMS	0	0	0	0
		2	3-SDDC2	SIGNATURE DUAL DRIVER CONTROLLER (LRM)	0.264	0.5280	0.336	0.6720
		1	3-ZA40B	40 WATT ZONED AMPLIFIER, CLASS B, 25 OR 70VRMS	0.062	0.062	2.48	2.48
		1	4-CPU	MAIN CPU	0.211	0.211	0.211	0.211
		16	4-FIL	BLANK FILLER	0	0	0	0
		2	4-NET-TP	TWISTED PAIR SFP NETWORK CONTROLLER	0.032	0.064	0.032	0.064
		2	4-PPS/M	PRIMARY POWER SUPPLY 120V	0	0	0	0
CIRCUIT	**SYMBOL**	**QTY**	**PART NO**	**DESCRIPTION**	**CURRENT DRAW (A)**	**TOTAL (A)**	**CURRENT DRAW (A)**	**TOTAL (A)**
F10-L1	F	1	SIGA-270	SINGLE ACTION, SINGLE STAGE FIRE ALARM STATION	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	CR	3	SIGA-CR	CONTROL RELAY MODULE				
		12	SIGA-HRD W/SIGA-SB4 BASE	INTELLIGENT FIXED TEMPERATURE/RATE-OF-RISE HEAT DETECTOR, STANDARD DETECTOR BASE				
	S R	12	SIGA-OSD W/SIGA-RB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
	S	45	SIGA-OSD W/SIGA-SB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
F10-L1	F	1	SIGA-270	SINGLE ACTION, SINGLE STAGE FIRE ALARM STATION	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	CR	7	SIGA-CR	CONTROL RELAY MODULE				
		14	SIGA-HRD W/SIGA-SB4 BASE	INTELLIGENT FIXED TEMPERATURE/RATE-OF-RISE HEAT DETECTOR, STANDARD DETECTOR BASE				
	S LF	2	SIGA-OSD W/SIGA-ABAG-LF BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
	S R	12	SIGA-OSD W/SIGA-RB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
	S	49	SIGA-OSD W/SIGA-SB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
F10-L2	MFCA	3	MFC-A (MCT2)	MULTI-FUNCTION CABINET W/ UIOR AND MCT2	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	F	1	SIGA-270	SINGLE ACTION, SINGLE STAGE FIRE ALARM STATION				
	CR	3	SIGA-CR	CONTROL RELAY MODULE				
	CT1	1	SIGA-CT1	SINGLE INPUT MODULE				
	CT2	1	SIGA-CT2	DUAL INPUT MODULE				
		24	SIGA-HRD W/SIGA-SB4 BASE	INTELLIGENT FIXED TEMPERATURE/RATE-OF-RISE HEAT DETECTOR, STANDARD DETECTOR BASE				
	S R	24	SIGA-OSD W/SIGA-RB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
	S	34	SIGA-OSD W/SIGA-SB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
F10-L2	MFCA	3	MFC-A (MCT2)	MULTI-FUNCTION CABINET W/ UIOR AND MCT2	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	F	1	SIGA-270	SINGLE ACTION, SINGLE STAGE FIRE ALARM STATION				
	CR	3	SIGA-CR	CONTROL RELAY MODULE				
	CT1	1	SIGA-CT1	SINGLE INPUT MODULE				
	CT2	1	SIGA-CT2	DUAL INPUT MODULE				
		24	SIGA-HRD W/SIGA-SB4 BASE	INTELLIGENT FIXED TEMPERATURE/RATE-OF-RISE HEAT DETECTOR, STANDARD DETECTOR BASE				
	S R	24	SIGA-OSD W/SIGA-RB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
	S	32	SIGA-OSD W/SIGA-SB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
					TOTAL STANDBY (A)	0.8650	TOTAL ALARM (A)	3.43
					REQUIRED STANDBY TIME (HOURS)		24	
					REQUIRED ALARM TIME (MINUTES)		15	
SECONDARY STANDBY LOAD (A)		0.8650			24		20.76	
SECONDARY ALARM LOAD (A)		3.43			0.25		0.856750	
STANDBY AND ALARM SUBTOTAL (AMP HOURS)					21.62			
DERATING FACTOR					1.25			
SECONDARY LOAD REQUIREMENTS (AMP HOURS)					27.02			
PROVIDE (2) 12V 40AH BATTERIES								

PANEL F11 (EST4 VOICE PANEL) BATTERY CALCULATION

(SECONDARY POWER SOURCE REQUIREMENTS)

PANEL COMPONENTS		QTY	PART NO.	DESCRIPTION	STANDBY CURRENT CURRENT DRAW (A)	STANDBY CURRENT TOTAL (A)	SECONDARY ALARM CURRENT CURRENT DRAW (A)	SECONDARY ALARM CURRENT TOTAL (A)
		1	EST4 VOICE PANEL	FACP VOICE PANEL	0	0	0	0
		1	3-CAB7B	BACK BOX /W 7 LRM SPACE W/O DOOR	0	0	0	0
		1	3-CAB7DR	RED DOOR ASSEMBLY FOR 3-CAB7	0	0	0	0
		1	3-CHAS7	CHASSIS ASSY FOR 7 LRMS	0	0	0	0
		3	3-SDDC2	SIGNATURE DUAL DRIVER CONTROLLER (LRM)	0.264	0.7920	0.336	1.01
		1	4-CPU	MAIN CPU	0.211	0.211	0.211	0.211
		16	4-FIL	BLANK FILLER	0	0	0	0
		2	4-NET-TP	TWISTED PAIR SFP NETWORK CONTROLLER	0.032	0.064	0.032	0.064
		1	4-PPS/M	PRIMARY POWER SUPPLY 120V	0	0	0	0
CIRCUIT	**SYMBOL**	**QTY**	**PART NO**	**DESCRIPTION**	**CURRENT DRAW (A)**	**TOTAL (A)**	**CURRENT DRAW (A)**	**TOTAL (A)**
F11-L3	CRH	29	SIGA-CRH	CONTROL RELAY MODULE (HIGH CURRENT)	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	CT2	29	SIGA-CT2	DUAL INPUT MODULE				
F11-L3	CRH	26	SIGA-CRH	CONTROL RELAY MODULE (HIGH CURRENT)	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	CT2	26	SIGA-CT2	DUAL INPUT MODULE				
	IM	2	SIGA-IM2	ISOLATOR MODULE				
F11-L1	CRH	34	SIGA-CRH	CONTROL RELAY MODULE (HIGH CURRENT)	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	CT2	34	SIGA-CT2	DUAL INPUT MODULE				
F11-L1	CRH	13	SIGA-CRH	CONTROL RELAY MODULE (HIGH CURRENT)	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	CT2	13	SIGA-CT2	DUAL INPUT MODULE				
F11-L2	CRH	29	SIGA-CRH	CONTROL RELAY MODULE (HIGH CURRENT)	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	CT2	29	SIGA-CT2	DUAL INPUT MODULE				
F11-L2	CRH	35	SIGA-CRH	CONTROL RELAY MODULE (HIGH CURRENT)	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	CT2	35	SIGA-CT2	DUAL INPUT MODULE				
					TOTAL STANDBY (A)	1.07	TOTAL ALARM (A)	1.28
					REQUIRED STANDBY TIME (HOURS)		24	
					REQUIRED ALARM TIME (MINUTES)		15	
SECONDARY STANDBY LOAD (A)		1.07			24		25.61	
SECONDARY ALARM LOAD (A)		1.28			0.25		0.32075	
STANDBY AND ALARM SUBTOTAL (AMP HOURS)					25.93			
DERATING FACTOR					1.25			
SECONDARY LOAD REQUIREMENTS (AMP HOURS)					32.41			
PROVIDE (2) 12V 40AH BATTERIES								

PANEL F12 (EST4 VOICE PANEL) BATTERY CALCULATION

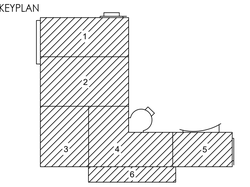
(SECONDARY POWER SOURCE REQUIREMENTS)

PANEL COMPONENTS		QTY	PART NO.	DESCRIPTION	STANDBY CURRENT CURRENT DRAW (A)	STANDBY CURRENT TOTAL (A)	SECONDARY ALARM CURRENT CURRENT DRAW (A)	SECONDARY ALARM CURRENT TOTAL (A)
		1	EST4 VOICE PANEL	FACP VOICE PANEL	0	0	0	0
		1	3-CAB14B	BACK BOX /W 14 LRM SPACE W/O DOOR	0	0	0	0
		1	3-CAB14DR	RED DOOR ASSEMBLY FOR 3-CAB14	0	0	0	0
		2	3-CHAS7	CHASSIS ASSY FOR 7 LRMS	0	0	0	0
		2	3-SDDC2	SIGNATURE DUAL DRIVER CONTROLLER (LRM)	0.264	0.5280	0.336	0.6720
		1	3-ZA40B	40 WATT ZONED AMPLIFIER, CLASS B, 25 OR 70VRMS	0.062	0.062	2.48	2.48
		1	4-CPU	MAIN CPU	0.211	0.211	0.211	0.211
		16	4-FIL	BLANK FILLER	0	0	0	0
		2	4-NET-TP	TWISTED PAIR SFP NETWORK CONTROLLER	0.032	0.064	0.032	0.064
		2	4-PPS/M	PRIMARY POWER SUPPLY 120V	0	0	0	0
CIRCUIT	**SYMBOL**	**QTY**	**PART NO**	**DESCRIPTION**	**CURRENT DRAW (A)**	**TOTAL (A)**	**CURRENT DRAW (A)**	**TOTAL (A)**
F12-S1	APS	2	APS10A	REMOTE AUXILIARY/BOOSTER POWER SUPPLY, 10A, 120VAC, RED	0	0	0	0
F12-L1	F	1	SIGA-270	SINGLE ACTION, SINGLE STAGE FIRE ALARM STATION	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	CR	36	SIGA-CR	CONTROL RELAY MODULE				
	CT1	16	SIGA-CT1	SINGLE INPUT MODULE				
	S	46	SIGA-DDOS	OPTICA DUCT DETECTOR				
	S	7	SIGA-OSD W/SIGA-SB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
F12-L1	MFCA	3	MFC-A (MCT2)	MULTI-FUNCTION CABINET W/ UIOR AND MCT2	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	F	1	SIGA-270	SINGLE ACTION, SINGLE STAGE FIRE ALARM STATION				
	CR	2	SIGA-CR	CONTROL RELAY MODULE				
	CT1	1	SIGA-CT1	SINGLE INPUT MODULE				
	CT2	1	SIGA-CT2	DUAL INPUT MODULE				
	S	81	SIGA-OSD W/SIGA-SB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
F12-L2	F	2	SIGA-270	SINGLE ACTION, SINGLE STAGE FIRE ALARM STATION	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	CR	11	SIGA-CR	CONTROL RELAY MODULE				
	CT2	4	SIGA-CT2	DUAL INPUT MODULE				
		4	SIGA-HRD W/SIGA-SB4 BASE	INTELLIGENT FIXED TEMPERATURE/RATE-OF-RISE HEAT DETECTOR, STANDARD DETECTOR BASE				
	S LF	4	SIGA-OSD W/SIGA-ABAG-LF BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
	S	48	SIGA-OSD W/SIGA-SB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
F12-L2	MFCA	6	MFC-A	MULTIFUNCTION FIRE ALARM CABINET, RED	INCLUDED WITH 3-SDDC2	0	INCLUDED WITH 3-SDDC2	0
	MFCA	4	MFC-A (MCT2)	MULTI-FUNCTION CABINET W/ UIOR AND MCT2				
	F	1	SIGA-270	SINGLE ACTION, SINGLE STAGE FIRE ALARM STATION				
	CR	2	SIGA-CR	CONTROL RELAY MODULE				
	CT1	1	SIGA-CT1	SINGLE INPUT MODULE				
	CT2	1	SIGA-CT2	DUAL INPUT MODULE				
	S	87	SIGA-OSD W/SIGA-SB BASE	INTELLIGENT OPTICAL SMOKE DETECTOR				
					TOTAL STANDBY (A)	0.8650	TOTAL ALARM (A)	3.43
					REQUIRED STANDBY TIME (HOURS)		24	
					REQUIRED ALARM TIME (MINUTES)		15	
SECONDARY STANDBY LOAD (A)		0.8650			24		20.76	
SECONDARY ALARM LOAD (A)		3.43			0.25		0.856750	
STANDBY AND ALARM SUBTOTAL (AMP HOURS)					21.62			
DERATING FACTOR					1.25			
SECONDARY LOAD REQUIREMENTS (AMP HOURS)					27.02			
PROVIDE (2) 12V 40AH BATTERIES								

Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Agency Approval

OSHPD No. 123010-43-00

INCREMENT 4 - 123010-43-04

Facility

Project

Title

CALCULATIONS SHEET #4

Building ID		Floor Lev.	
Scale	NTS	KP Proj. No.	
Dwn By	LW	Stantec No.	
Chckd By	VL	Sheet	H-FA061

ORIGINAL SHEET - ARCH E1

PANEL A1 (APS10A) BATTERY CALCULATION
(SECONDARY POWER SOURCE REQUIREMENTS)

		QTY	PART NO.	DESCRIPTION	STANDBY CURRENT CURRENT DRAW (A)	STANDBY CURRENT TOTAL (A)	SECONDARY ALARM CURRENT CURRENT DRAW (A)	SECONDARY ALARM CURRENT TOTAL (A)
PANEL COMPONENTS		1	APS10A	REMOTE AUXILIARY/BOOSTER POWER SUPPLY, 10A, 120VAC, RED	0	0	0	0
		1	APS10A MAINBOARD	MAINBOARD FOR APS10A ASSEMBLY	0.07	0.07	0.27	0.27
		2	SIGA-AA50	50 WATT INTELLIGENT AUDIO AMPLIFIER	0.002	0.004	2.80	5.60
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
A1-N1		2	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 110CD	0	0	0.028	0.056
		2	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 30CD	0	0	0.028	0.056
		4	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 75CD	0	0	0.028	0.112
	C	2	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.07
		6	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.21
A1-N2		2	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 15CD	0	0	0.028	0.056
	C	4	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.14
	C	2	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.07
	C	6	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD	0	0	0.035	0.21
		3	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.105
A1-S1	MFCA	1	MFC-A	MULTI-FUNCTION CABINET W/ UIO6R AND MCT2	0	0	0	0
A1-S2	MFCA	1	MFC-A	MULTI-FUNCTION CABINET W/ UIO2R AND MCT2	0	0	0	0
					TOTAL STANDBY (A)	0.074	TOTAL ALARM (A)	6.95
					REQUIRED STANDBY TIME (HOURS)		24	
					REQUIRED ALARM TIME (MINUTES)		15	
SECONDARY STANDBY LOAD (A)			0.074		24		1.78	
SECONDARY ALARM LOAD (A)			6.95		0.250		1.729	
STANDBY AND ALARM SUBTOTAL (AMP HOURS)					3.51			
DERATING FACTOR					1.25			
SECONDARY LOAD REQUIREMENTS (AMP HOURS)					4.39			
PROVIDE (2) 12V 7AH BATTERIES								

PANEL A2 (APS10A) BATTERY CALCULATION
(SECONDARY POWER SOURCE REQUIREMENTS)

		QTY	PART NO.	DESCRIPTION	STANDBY CURRENT CURRENT DRAW (A)	STANDBY CURRENT TOTAL (A)	SECONDARY ALARM CURRENT CURRENT DRAW (A)	SECONDARY ALARM CURRENT TOTAL (A)
PANEL COMPONENTS		1	APS10A	REMOTE AUXILIARY/BOOSTER POWER SUPPLY, 10A, 120VAC, RED	0	0	0	0
		1	APS10A MAINBOARD	MAINBOARD FOR APS10A ASSEMBLY	0.07	0.07	0.27	0.27
		1	SIGA-AA50	50 WATT INTELLIGENT AUDIO AMPLIFIER	0.002	0.002	2.80	2.80
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
A2-S1	MFCA	1	MFC-A	MULTI-FUNCTION CABINET W/ UIO6R AND MCT2	0	0	0	0
A2-N1		1	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 15CD	0	0	0.028	0.028
	C	1	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 115CD	0	0	0.035	0.035
	C	4	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.14
	C	4	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.14
	C	4	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD	0	0	0.035	0.14
		5	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.175
A2-N2		1	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 75CD	0	0	0.028	0.028
		1	G4VRF	WALL STROBE, RED, FIRE 15CD	0	0	0.028	0.028
	C	12	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.42
		9	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.315
A2-AUX1	S LF	3	SIGA-OSD W/SIGA-AB4G-LF BASE	INTELLIGENT OPTICAL SMOKE DETECTOR	0	0	0.15	0.45
					TOTAL STANDBY (A)	0.072	TOTAL ALARM (A)	4.97
					REQUIRED STANDBY TIME (HOURS)		24	
					REQUIRED ALARM TIME (MINUTES)		15	
SECONDARY STANDBY LOAD (A)			0.072		24		1.73	
SECONDARY ALARM LOAD (A)			4.97		0.250		1.242	
STANDBY AND ALARM SUBTOTAL (AMP HOURS)					2.97			
DERATING FACTOR					1.25			
SECONDARY LOAD REQUIREMENTS (AMP HOURS)					3.71			
PROVIDE (2) 12V 7AH BATTERIES								

PANEL A3 (APS10A) BATTERY CALCULATION
(SECONDARY POWER SOURCE REQUIREMENTS)

		QTY	PART NO.	DESCRIPTION	STANDBY CURRENT CURRENT DRAW (A)	STANDBY CURRENT TOTAL (A)	SECONDARY ALARM CURRENT CURRENT DRAW (A)	SECONDARY ALARM CURRENT TOTAL (A)
PANEL COMPONENTS		1	APS10A	REMOTE AUXILIARY/BOOSTER POWER SUPPLY, 10A, 120VAC, RED	0	0	0	0
		1	APS10A MAINBOARD	MAINBOARD FOR APS10A ASSEMBLY	0.07	0.07	0.27	0.27
		1	SIGA-AA50	50 WATT INTELLIGENT AUDIO AMPLIFIER	0.002	0.002	2.80	2.80
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
A3-S1	MFCA	1	MFC-A	MULTI-FUNCTION CABINET W/ UIO6R AND MCT2	0	0	0	0
A3-N1	C	1	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 115CD	0	0	0.035	0.035
	C	1	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.035
	C	2	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.07
		2	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.07
A3-N3	CC1	2	SIGA-CC1	SIGNAL MODULE /W 1 RISER IN, 1 OUTPUT CKT, CL 'B'	0	0	0.085	0.17
					TOTAL STANDBY (A)	0.072	TOTAL ALARM (A)	3.45
					REQUIRED STANDBY TIME (HOURS)		24	
					REQUIRED ALARM TIME (MINUTES)		15	
SECONDARY STANDBY LOAD (A)			0.072		24		1.73	
SECONDARY ALARM LOAD (A)			3.45		0.250		0.8625	
STANDBY AND ALARM SUBTOTAL (AMP HOURS)					2.59			
DERATING FACTOR					1.25			
SECONDARY LOAD REQUIREMENTS (AMP HOURS)					3.24			
PROVIDE (2) 12V 7AH BATTERIES								

PANEL A4 (APS10A) BATTERY CALCULATION
(SECONDARY POWER SOURCE REQUIREMENTS)

		QTY	PART NO.	DESCRIPTION	STANDBY CURRENT CURRENT DRAW (A)	STANDBY CURRENT TOTAL (A)	SECONDARY ALARM CURRENT CURRENT DRAW (A)	SECONDARY ALARM CURRENT TOTAL (A)
PANEL COMPONENTS		1	APS10A	REMOTE AUXILIARY/BOOSTER POWER SUPPLY, 10A, 120VAC, RED	0	0	0	0
		1	APS10A MAINBOARD	MAINBOARD FOR APS10A ASSEMBLY	0.07	0.07	0.27	0.27
		2	SIGA-AA50	50 WATT INTELLIGENT AUDIO AMPLIFIER	0.002	0.004	2.80	5.60
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
A4-S1	MFCA	1	MFC-A	MULTI-FUNCTION CABINET W/ UIO6R AND MCT2	0	0	0	0
A4-N1	C	8	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.28
	C	3	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.105
	C	1	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD	0	0	0.035	0.035
		12	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.42
	WP	2	WGVRF	OUTDOOR RATED STROBE, RED, FIRE 15CD	0	0	0.035	0.07
A4-N2	C	4	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.14
	C	3	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD	0	0	0.035	0.105
		16	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.560
A4-N3		1	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 30CD	0	0	0.028	0.028
	C	6	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.21
	C	1	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.035
	C	4	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD	0	0	0.035	0.14
		6	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.21
A4-S2	MFCA	1	MFC-A	MULTI-FUNCTION CABINET W/ UIO6R AND MCT2	0	0	0	0
					TOTAL STANDBY (A)	0.074	TOTAL ALARM (A)	8.21
					REQUIRED STANDBY TIME (HOURS)		24	
					REQUIRED ALARM TIME (MINUTES)		5	
SECONDARY STANDBY LOAD (A)			0.074		24		1.78	
SECONDARY ALARM LOAD (A)			8.21		0.083		0.6840	
STANDBY AND ALARM SUBTOTAL (AMP HOURS)					2.46			
DERATING FACTOR					1.25			
SECONDARY LOAD REQUIREMENTS (AMP HOURS)					3.08			
PROVIDE (2) 12V 7AH BATTERIES								

PANEL A5 (APS10A) BATTERY CALCULATION
(SECONDARY POWER SOURCE REQUIREMENTS)

		QTY	PART NO.	DESCRIPTION	STANDBY CURRENT CURRENT DRAW (A)	STANDBY CURRENT TOTAL (A)	SECONDARY ALARM CURRENT CURRENT DRAW (A)	SECONDARY ALARM CURRENT TOTAL (A)
PANEL COMPONENTS		1	APS10A	REMOTE AUXILIARY/BOOSTER POWER SUPPLY, 10A, 120VAC, RED	0	0	0	0
		1	APS10A MAINBOARD	MAINBOARD FOR APS10A ASSEMBLY	0.07	0.07	0.27	0.27
		1	SIGA-AA50	50 WATT INTELLIGENT AUDIO AMPLIFIER	0.002	0.002	2.80	2.80
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
A5-N1	C	4	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.14
	C	3	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD	0	0	0.035	0.105
		16	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.560
	WP	1	WGVRF	OUTDOOR RATED STROBE, RED, FIRE 15CD	0	0	0.035	0.035
A5-N2	C	8	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.28
	C	4	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD	0	0	0.035	0.14
		9	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.315
		1	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.045	0.045
A5-N3	C	3	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.105
	C	4	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.14
	C	1	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD	0	0	0.035	0.035
		11	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.385
A5-S1	MFCA	5	MFC-A	MULTI-FUNCTION CABINET W/ UIO6R AND MCT2	0	0	0	0
					TOTAL STANDBY (A)	0.072	TOTAL ALARM (A)	5.36
					REQUIRED STANDBY TIME (HOURS)		24	
					REQUIRED ALARM TIME (MINUTES)		15	
SECONDARY STANDBY LOAD (A)			0.072		24		1.73	
SECONDARY ALARM LOAD (A)			5.35		0.250		1.33875	
STANDBY AND ALARM SUBTOTAL (AMP HOURS)					3.07			
DERATING FACTOR					1.25			
SECONDARY LOAD REQUIREMENTS (AMP HOURS)					3.83			
PROVIDE (2) 12V 7AH BATTERIES								

PANEL A6 (APS10A) BATTERY CALCULATION
(SECONDARY POWER SOURCE REQUIREMENTS)

		QTY	PART NO.	DESCRIPTION	STANDBY CURRENT CURRENT DRAW (A)	STANDBY CURRENT TOTAL (A)	SECONDARY ALARM CURRENT CURRENT DRAW (A)	SECONDARY ALARM CURRENT TOTAL (A)
PANEL COMPONENTS		1	APS10A	REMOTE AUXILIARY/BOOSTER POWER SUPPLY, 10A, 120VAC, RED	0	0	0	0
		1	APS10A MAINBOARD	MAINBOARD FOR APS10A ASSEMBLY	0.07	0.07	0.27	0.27
		2	SIGA-AA50	50 WATT INTELLIGENT AUDIO AMPLIFIER	0.002	0.004	2.80	5.60
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
A6-S1	MFCA	4	MFC-A	MULTI-FUNCTION CABINET	0	0	0	0
A6-N1	C	3	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.105
	C	1	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.035
		7	GCVRF	STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.245
A6-N2	C	7	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.245
	C	4	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.14
		10	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.35
A6-N3	C	1	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 115CD	0	0	0.035	0.035
	C	5	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.175
	C	2	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.07
	C	3	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD	0	0	0.035	0.105
		4	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.14
		1	GCVRF	STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.035
	WP	2	WGVRF	OUTDOOR STROBE, 15/30CD, RED, FIRE 15CD	0	0	0.035	0.07
A6-S2	MFCA	3	MFC-A	MULTI-FUNCTION CABINET W/ UIO6R AND MCT2	0	0	0	0
					TOTAL STANDBY (A)	0.074	TOTAL ALARM (A)	7.62
					REQUIRED STANDBY TIME (HOURS)		24	
					REQUIRED ALARM TIME (MINUTES)		15	
SECONDARY STANDBY LOAD (A)			0.074		24		1.78	
SECONDARY ALARM LOAD (A)			7.62		0.25		1.91	
STANDBY AND ALARM SUBTOTAL (AMP HOURS)					3.68			
DERATING FACTOR					1.25			
SECONDARY LOAD REQUIREMENTS (AMP HOURS)					4.60			
PROVIDE (2) 12V 7AH BATTERIES								

PANEL A7 (APS10A) BATTERY CALCULATION
(SECONDARY POWER SOURCE REQUIREMENTS)

		QTY	PART NO.	DESCRIPTION	STANDBY CURRENT CURRENT DRAW (A)	STANDBY CURRENT TOTAL (A)	SECONDARY ALARM CURRENT CURRENT DRAW (A)	SECONDARY ALARM CURRENT TOTAL (A)
PANEL COMPONENTS		1	APS10A	REMOTE AUXILIARY/BOOSTER POWER SUPPLY, 10A, 120VAC, RED	0	0	0	0
		1	APS10A MAINBOARD	MAINBOARD FOR APS10A ASSEMBLY	0.07	0.07	0.27	0.27
		2	SIGA-AA50	50 WATT INTELLIGENT AUDIO AMPLIFIER	0.002	0.004	2.80	5.60
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
A7-N1	C	1	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.035
	C	6	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD	0	0	0.035	0.21
		7	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.245
A7-N2		1	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 30CD	0	0	0.028	0.028
	C	1	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.035
	C	6	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD	0	0	0.035	0.21
		7	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.245
A7-N3	C	1	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 115CD	0	0	0.035	0.035
	C	9	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.315
	C	1	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.035
	C	4	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD	0	0	0.035	0.14
		2	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.07
		1	GCVRF	STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.035
A7-S1	MFCA	3	MFC-A	MULTI-FUNCTION CABINET W/ UIO6R AND MCT2	0	0	0	0
A7-S2	MFCA	2	MFC-A	MULTI-FUNCTION CABINET W/ UIO6R AND MCT2	0	0	0	0
					TOTAL STANDBY (A)	0.074	TOTAL ALARM (A)	7.51
					REQUIRED STANDBY TIME (HOURS)		24	
					REQUIRED ALARM TIME (MINUTES)		15	
SECONDARY STANDBY LOAD (A)			0.074		24		1.78	
SECONDARY ALARM LOAD (A)			7.51		0.25		1.88	
STANDBY AND ALARM SUBTOTAL (AMP HOURS)					3.65			
DERATING FACTOR					1.25			
SECONDARY LOAD REQUIREMENTS (AMP HOURS)					4.57			
PROVIDE (2) 12V 7AH BATTERIES								

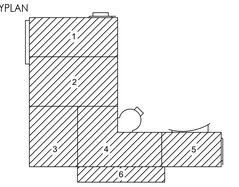
PANEL A8 (APS10A) BATTERY CALCULATION
(SECONDARY POWER SOURCE REQUIREMENTS)

		QTY	PART NO.	DESCRIPTION	STANDBY CURRENT CURRENT DRAW (A)	STANDBY CURRENT TOTAL (A)	SECONDARY ALARM CURRENT CURRENT DRAW (A)	SECONDARY ALARM CURRENT TOTAL (A)
PANEL COMPONENTS		1	APS10A	REMOTE AUXILIARY/BOOSTER POWER SUPPLY, 10A, 120VAC, RED	0	0	0	0
		1	APS10A MAINBOARD	MAINBOARD FOR APS10A ASSEMBLY	0.07	0.07	0.27	0.27
		1	SIGA-AA50	50 WATT INTELLIGENT AUDIO AMPLIFIER	0.002	0.002	2.80	2.80
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
A8-A8-N1	C	3	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.105
	C	2	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.07
	C	3	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD	0	0	0.035	0.105
		9	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.315
		1	GCVRF	STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.035
A8-AUX1	S LF	8	SIGA-OSD W/SIGA-AB4G-LF BASE	INTELLIGENT OPTICAL SMOKE DETECTOR	0	0	0.15	1.20
A8-S1	MFCA	3	MFC-A	MULTI-FUNCTION CABINET W/ UIO6R AND MCT2	0	0	0	0
					TOTAL STANDBY (A)	0.072	TOTAL ALARM (A)	4.90
					REQUIRED STANDBY TIME (HOURS)		24	
					REQUIRED ALARM TIME (MINUTES)		15	
SECONDARY STANDBY LOAD (A)			0.072		24		1.73	
SECONDARY ALARM LOAD (A)			4.90		0.25		1.22	
STANDBY AND ALARM SUBTOTAL (AMP HOURS)					2.95			
DERATING FACTOR					1.25			
SECONDARY LOAD REQUIREMENTS (AMP HOURS)					3.69			
PROVIDE (2) 12V 7AH BATTERIES								

Consultant

Architect / Engineer of Record

KEYPLAN



Revision

	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued

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Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Agency Approval
OSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

Project

Title
CALCULATIONS SHEET #5

Building ID:	Floor Lev:
Scale NTS	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA062

ORIGINAL SHEET - ARCH E1

PANEL A9 (APS10A) BATTERY CALCULATION
(SECONDARY POWER SOURCE REQUIREMENTS)

						STANDBY CURRENT		SECONDARY ALARM CURRENT	
PANEL COMPONENTS		QTY	PART NO.	DESCRIPTION		CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
		1	APS10A	REMOTE AUXILIARY/BOOSTER POWER SUPPLY, 10A, 120VAC, RED		0	0	0	0
		1	APS10A MAINBOARD	MAINBOARD FOR APS10A ASSEMBLY		0.07	0.07	0.27	0.27
		1	SIGA-AA50	50 WATT INTELLIGENT AUDIO AMPLIFIER		0.002	0.002	2.80	2.80
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION		CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
A9-N1		1	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 30CD		0	0	0.028	0.028
	H	4	GCF-VMH	STROBE, CEILING, WHITE, FIRE, HIGH CANDELA 177CD		0	0	0.5650	2.26
	C	2	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD		0	0	0.035	0.07
	WP	4	WGVRF	OUTDOOR STROBE, WALL, RED, FIRE 15CD		0	0	0.035	0.14
A9-N2	H	4	GCF-VMH	STROBE, CEILING, WHITE, FIRE, HIGH CANDELA 177CD		0	0	0.5650	2.26
	C	2	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD		0	0	0.035	0.07
		1	GCVRF	STROBE, CEILING, RED, FIRE 15CD		0	0	0.035	0.035
	WP	2	WGVRF	OUTDOOR STROBE, WALL, RED, FIRE 15CD		0	0	0.035	0.07
A9-N3	C	6	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD		0	0	0.035	0.21
	C	5	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD		0	0	0.035	0.175
		10	GCVRF	STROBE, CEILING, RED, FIRE 15CD		0	0	0.035	0.35
A9-S1	MFCA	3	MFC-A	MULTI-FUNCTION CABINET W/ UI06R AND MCT2		0	0	0	0
					TOTAL STANDBY (A)		0.072	TOTAL ALARM (A)	8.74
					REQUIRED STANDBY TIME (HOURS)		24		15
					REQUIRED ALARM TIME (MINUTES)		15		
SECONDARY STANDBY LOAD (A)			0.072		24		1.73		
SECONDARY ALARM LOAD (A)			8.74		0.25		2.18		
STANDBY AND ALARM SUBTOTAL (AMP HOURS)					3.91				
DERATING FACTOR					1.25				
SECONDARY LOAD REQUIREMENTS (AMP HOURS)					4.89				
PROVIDE (2) 12V 7AH BATTERIES									

PANEL A10 (APS10A) BATTERY CALCULATION
(SECONDARY POWER SOURCE REQUIREMENTS)

						STANDBY CURRENT		SECONDARY ALARM CURRENT	
PANEL COMPONENTS		QTY	PART NO.	DESCRIPTION		CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
		1	APS10A	REMOTE AUXILIARY/BOOSTER POWER SUPPLY, 10A, 120VAC, RED		0	0	0	0
		1	APS10A MAINBOARD	MAINBOARD FOR APS10A ASSEMBLY		0.07	0.07	0.27	0.27
		1	SIGA-AA30	30 WATT INTELLIGENT AUDIO AMPLIFIER		0.002	0.002	1.55	1.55
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION		CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
A10-N1		1	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 30CD		0	0	0.028	0.028
		1	G4VRF	WALL STROBE, RED, FIRE 15CD		0	0	0.036	0.036
	C	1	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD		0	0	0.035	0.035
	C	2	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD		0	0	0.035	0.07
	C	4	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD		0	0	0.035	0.14
		1	GCVRF	STROBE, CEILING, RED, FIRE 15CD		0	0	0.035	0.035
A10-N2	C	2	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD		0	0	0.035	0.07
	C	3	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD		0	0	0.035	0.105
	C	1	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD		0	0	0.035	0.035
		1	GCVRF	STROBE, CEILING, RED, FIRE 15CD		0	0	0.035	0.035
A10-N3	C	1	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD		0	0	0.035	0.035
	C	3	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD		0	0	0.035	0.105
	C	1	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD		0	0	0.035	0.035
	C	3	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD		0	0	0.035	0.105
		8	GCVRF	STROBE, CEILING, RED, FIRE 15CD		0	0	0.035	0.28
A10-S1	MFCA	3	MFC-A (MCT2)	MULTI-FUNCTION CABINET W/ UI06R AND MCT2		0	0	0	0
					TOTAL STANDBY (A)		0.072	TOTAL ALARM (A)	2.96
					REQUIRED STANDBY TIME (HOURS)		24		
					REQUIRED ALARM TIME (MINUTES)		15		
SECONDARY STANDBY LOAD (A)			0.072		24		1.73		
SECONDARY ALARM LOAD (A)			2.96		0.25		0.74050		
STANDBY AND ALARM SUBTOTAL (AMP HOURS)					2.47				
DERATING FACTOR					1.25				
SECONDARY LOAD REQUIREMENTS (AMP HOURS)					3.09				
PROVIDE (2) 12V 7AH BATTERIES									

PANEL A11 (APS10A) BATTERY CALCULATION
(SECONDARY POWER SOURCE REQUIREMENTS)

						STANDBY CURRENT		SECONDARY ALARM CURRENT	
PANEL COMPONENTS		QTY	PART NO.	DESCRIPTION		CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
		1	APS10A	REMOTE AUXILIARY/BOOSTER POWER SUPPLY, 10A, 120VAC, RED		0	0	0	0
		1	APS10A MAINBOARD	MAINBOARD FOR APS10A ASSEMBLY		0.07	0.07	0.27	0.27
		1	SIGA-AA30	30 WATT INTELLIGENT AUDIO AMPLIFIER		0.002	0.002	1.55	1.55
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION		CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
A11-N1	C	2	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD		0	0	0.035	0.07
	C	9	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD		0	0	0.035	0.315
		2	GCVRF	STROBE, CEILING, RED, FIRE 15CD		0	0	0.035	0.07
A11-N2		1	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 30CD		0	0	0.028	0.028
		1	G4VRF	WALL STROBE, RED, FIRE 15CD		0	0	0.036	0.036
	C	1	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD		0	0	0.035	0.035
		8	GCVRF	STROBE, CEILING, RED, FIRE 15CD		0	0	0.035	0.28
A11-S1	MFCA	3	MFC-A (MCT2)	MULTI-FUNCTION CABINET W/ UI06R AND MCT2		0	0	0	0
					TOTAL STANDBY (A)		0.072	TOTAL ALARM (A)	2.65
					REQUIRED STANDBY TIME (HOURS)		24		
					REQUIRED ALARM TIME (MINUTES)		15		
SECONDARY STANDBY LOAD (A)			0.072		24		1.73		
SECONDARY ALARM LOAD (A)			2.65		0.25		0.66350		
STANDBY AND ALARM SUBTOTAL (AMP HOURS)					2.39				
DERATING FACTOR					1.25				
SECONDARY LOAD REQUIREMENTS (AMP HOURS)					2.99				
PROVIDE (2) 12V 7AH BATTERIES									

PANEL A12 (APS10A) BATTERY CALCULATION
(SECONDARY POWER SOURCE REQUIREMENTS)

						STANDBY CURRENT		SECONDARY ALARM CURRENT	
PANEL COMPONENTS		QTY	PART NO.	DESCRIPTION		CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
		1	APS10A	REMOTE AUXILIARY/BOOSTER POWER SUPPLY, 10A, 120VAC, RED		0	0	0	0
		1	APS10A MAINBOARD	MAINBOARD FOR APS10A ASSEMBLY		0.07	0.07	0.27	0.27
		1	SIGA-AA30	30 WATT INTELLIGENT AUDIO AMPLIFIER		0.002	0.002	1.55	1.55
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION		CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
A12-N1		3	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 15CD		0	0	0.036	0.108
	C	1	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD		0	0	0.035	0.035
	C	1	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD		0	0	0.045	0.045
		10	GCVRF	STROBE, CEILING, RED, FIRE 15CD		0	0	0.045	0.45
A12-N2		1	G4VRF	WALL STROBE, RED, FIRE 15CD		0	0	0.036	0.036
	C	13	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD		0	0	0.045	0.5850
A12-S1	MFCA	3	MFC-A (MCT2)	MULTI-FUNCTION CABINET W/ UI06R AND MCT2		0	0	0	0
					TOTAL STANDBY (A)		0.072	TOTAL ALARM (A)	3.08
					REQUIRED STANDBY TIME (HOURS)		24		
					REQUIRED ALARM TIME (MINUTES)		15		
SECONDARY STANDBY LOAD (A)			0.072		24		1.73		
SECONDARY ALARM LOAD (A)			3.08		0.25		0.769750		
STANDBY AND ALARM SUBTOTAL (AMP HOURS)					2.50				
DERATING FACTOR					1.25				
SECONDARY LOAD REQUIREMENTS (AMP HOURS)					3.12				
PROVIDE (2) 12V 7AH BATTERIES									

PANEL A13 (APS10A) BATTERY CALCULATION
(SECONDARY POWER SOURCE REQUIREMENTS)

						STANDBY CURRENT		SECONDARY ALARM CURRENT	
PANEL COMPONENTS		QTY	PART NO.	DESCRIPTION		CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
		1	APS10A	REMOTE AUXILIARY/BOOSTER POWER SUPPLY, 10A, 120VAC, RED		0	0	0	0
		1	APS10A MAINBOARD	MAINBOARD FOR APS10A ASSEMBLY		0.07	0.07	0.27	0.27
		1	SIGA-AA30	30 WATT INTELLIGENT AUDIO AMPLIFIER		0.002	0.002	1.55	1.55
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION		CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
A13-N1		2	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 15CD		0	0	0.036	0.072
		1	G4VRF	WALL STROBE, RED, FIRE 15CD		0	0	0.036	0.036
	C	2	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD		0	0	0.045	0.09
		10	GCVRF	STROBE, CEILING, RED, FIRE 15CD		0	0	0.045	0.45
A13-N2	C	13	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD		0	0	0.045	0.5850
A13-AUX1	LF	2	SIGA-OSD W/SIGA-AB4G-LF BASE	INTELLIGENT OPTICAL SMOKE DETECTOR		0	0	0.15	0.3
A13-S1	MFCA	3	MFC-A (MCT2)	MULTI-FUNCTION CABINET W/ UI06R AND MCT2		0	0	0	0
					TOTAL STANDBY (A)		0.072	TOTAL ALARM (A)	3.35
					REQUIRED STANDBY TIME (HOURS)		24		
					REQUIRED ALARM TIME (MINUTES)		15		
SECONDARY STANDBY LOAD (A)			0.072		24		1.73		
SECONDARY ALARM LOAD (A)			3.35		0.25		0.838250		
STANDBY AND ALARM SUBTOTAL (AMP HOURS)					2.57				
DERATING FACTOR					1.25				
SECONDARY LOAD REQUIREMENTS (AMP HOURS)					3.21				
PROVIDE (2) 12V 7AH BATTERIES									

PANEL A14 (APS10A) BATTERY CALCULATION
(SECONDARY POWER SOURCE REQUIREMENTS)

						STANDBY CURRENT		SECONDARY ALARM CURRENT	
PANEL COMPONENTS		QTY	PART NO.	DESCRIPTION		CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
		1	APS10A	REMOTE AUXILIARY/BOOSTER POWER SUPPLY, 10A, 120VAC, RED		0	0	0	0
		1	APS10A MAINBOARD	MAINBOARD FOR APS10A ASSEMBLY		0.07	0.07	0.27	0.27
		1	SIGA-AA50	50 WATT INTELLIGENT AUDIO AMPLIFIER		0.002	0.002	2.80	2.80
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION		CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
A14-S1	MFCA	3	MFC-A (MCT2)	MULTI-FUNCTION CABINET W/ UI06R AND MCT2		0	0	0	0
A14-N1		10	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 110CD		0	0	0.028	0.28
		3	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 30CD		0	0	0.028	0.084
		2	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 75CD		0	0	0.028	0.056
		1	G4VRF	WALL STROBE, RED, FIRE 15CD		0	0	0.028	0.028
A14-N2		2	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 15CD		0	0	0.028	0.056
		1	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 30CD		0	0	0.028	0.028
		1	G4VRF	WALL STROBE, RED, FIRE 15CD		0	0	0.028	0.028
	H	2	GCF-VMH	STROBE, CEILING, WHITE, FIRE, HIGH CANDELA 177CD		0	0	0.342	0.6840
	C	2	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD		0	0	0.035	0.07
	C	7	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD		0	0	0.035	0.245
		4	GCVRF	STROBE, CEILING, RED, FIRE 15CD		0	0	0.035	0.14
	WP	2	WGVRF	OUTDOOR RATED STROBE, RED, FIRE 15CD		0	0	0.035	0.07
A14-AUX1	LF	4	SIGA-OSD W/SIGA-AB4G-LF BASE	INTELLIGENT OPTICAL SMOKE DETECTOR		0	0	0.15	0.60
					TOTAL STANDBY (A)		0.072	TOTAL ALARM (A)	5.44
					REQUIRED STANDBY TIME (HOURS)		24		
					REQUIRED ALARM TIME (MINUTES)		15		
SECONDARY STANDBY LOAD (A)			0.072		24		1.73		
SECONDARY ALARM LOAD (A)			5.44		0.25		1.36		
STANDBY AND ALARM SUBTOTAL (AMP HOURS)					3.09				
DERATING FACTOR					1.25				
SECONDARY LOAD REQUIREMENTS (AMP HOURS)					3.86				
PROVIDE (2) 12V 7AH BATTERIES									

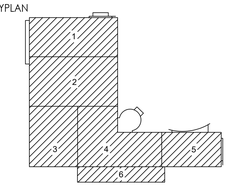
PANEL A15 (APS10A) BATTERY CALCULATION
(SECONDARY POWER SOURCE REQUIREMENTS)

						STANDBY CURRENT		SECONDARY ALARM CURRENT	
PANEL COMPONENTS		QTY	PART NO.	DESCRIPTION		CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
		1	APS10A	REMOTE AUXILIARY/BOOSTER POWER SUPPLY, 10A, 120VAC, RED		0	0	0	0
		1	APS10A MAINBOARD	MAINBOARD FOR APS10A ASSEMBLY		0.07	0.07	0.27	0.27
		1	SIGA-AA50	50 WATT INTELLIGENT AUDIO AMPLIFIER		0.002	0.002	2.80	2.80
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION		CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
A15-S1	MFCA	4	MFC-A (MCT2)	MULTI-FUNCTION CABINET W/ UI06R AND MCT2		0	0	0	0
A15-N1		10	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 110CD		0	0	0.028	0.28
		2	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 30CD		0	0	0.028	0.056
		4	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 75CD		0	0	0.028	0.112
		1	G4VRF	WALL STROBE, RED, FIRE 15CD		0	0	0.028	0.028
A15-N2		1	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 15CD		0	0	0.028	0.028
		1	G4VRF	WALL STROBE, RED, FIRE 15CD		0	0	0.028	0.028
	H	2	GCF-VMH	STROBE, CEILING, WHITE, FIRE, HIGH CANDELA 177CD		0	0	0.342	0.6840
	C	3	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD		0	0	0.035	0.105
	C	2	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD		0	0	0.035	0.07
	C	2	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD		0	0	0.035	0.07
		2	GCVRF	STROBE, CEILING, RED, FIRE 15CD		0	0	0.035	0.07
	WP	2	WGVRF	OUTDOOR RATED STROBE, RED, FIRE 15CD		0	0	0.035	0.07
A15-N3		2	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 15CD		0	0	0.028	0.056
		4	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 30CD		0	0	0.028	0.112
		1	G4VRF	WALL STROBE, RED, FIRE 15CD		0	0	0.028	0.028
	WP	1	WG4RF-SVMHC	25/70V SPEAKER/STROBE, RED, FIRE, CLEAR, 102, 123, 147, 161 CD 147CD		0	0	0.494	0.494
					TOTAL STANDBY (A)		0.072	TOTAL ALARM (A)	5.36
					REQUIRED STANDBY TIME (HOURS)		24		
					REQUIRED ALARM TIME (MINUTES)		15		
SECONDARY STANDBY LOAD (A)			0.072		24		1.73		
SECONDARY ALARM LOAD (A)			5.36		0.25		1.34		
STANDBY AND ALARM SUBTOTAL (AMP HOURS)					3.07				
DERATING FACTOR					1.25				
SECONDARY LOAD REQUIREMENTS (AMP HOURS)					3.84				
PROVIDE (2) 12V 7AH BATTERIES									

Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Agency Approval

OSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

Project

Title
CALCULATIONS SHEET #6

Building ID	Floor Lev.
Scale NTS	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA063

ORIGINAL SHEET - ARCH E1

PANEL P1 (BPS10A) BATTERY CALCULATION

(SECONDARY POWER SOURCE REQUIREMENTS)

PANEL COMPONENTS	QTY	PART NO.	DESCRIPTION	STANDBY CURRENT CURRENT DRAW (A)	STANDBY CURRENT TOTAL (A)	SECONDARY ALARM CURRENT CURRENT DRAW (A)	SECONDARY ALARM CURRENT TOTAL (A)
	1	BPS10A	REMOTE BOOSTER POWER SUPPLY, 10A, 120VAC, RED	0	0	0	0
	1	BPS10A MAINBOARD	MAINBOARD FOR BPS10A ASSEMBLY	0.07	0.07	0.27	0.27

CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
P1-N1		1	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 75CD	0	0	0.028	0.028
	H	3	GCF-VMH	STROBE, CEILING, WHITE, FIRE, HIGH CANDELA 177CD	0	0	0.5650	1.70
	C	3	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.105
	C	1	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.035
	C	1	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD	0	0	0.035	0.035
		5	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.175
	WP	4	WGVRF	OUTDOOR RATED STROBE, RED, FIRE 15CD	0	0	0.035	0.14
P1-N2		2	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 30CD	0	0	0.028	0.056
		9	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 75CD	0	0	0.028	0.252
P1-N3		3	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 15CD	0	0	0.028	0.084
		1	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 30CD	0	0	0.028	0.028
		1	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 75CD	0	0	0.028	0.028
	C	1	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.035
		2	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.07
	WP	1	WGVRF	OUTDOOR RATED STROBE, RED, FIRE 15CD	0	0	0.035	0.035

TOTAL STANDBY (A)	0.07	TOTAL ALARM (A)	3.07
REQUIRED STANDBY TIME (HOURS)		24	
REQUIRED ALARM TIME (MINUTES)		15	
SECONDARY STANDBY LOAD (A)	0.07	24	1.68
SECONDARY ALARM LOAD (A)	3.07	0.250	0.768
STANDBY AND ALARM SUBTOTAL (AMP HOURS)		2.45	
DERATING FACTOR		1.25	
SECONDARY LOAD REQUIREMENTS (AMP HOURS)		3.06	
PROVIDE (2) 12V 7AH BATTERIES			

PANEL P2 (BPS10A) BATTERY CALCULATION

(SECONDARY POWER SOURCE REQUIREMENTS)

PANEL COMPONENTS	QTY	PART NO.	DESCRIPTION	STANDBY CURRENT CURRENT DRAW (A)	STANDBY CURRENT TOTAL (A)	SECONDARY ALARM CURRENT CURRENT DRAW (A)	SECONDARY ALARM CURRENT TOTAL (A)
	1	BPS10A	REMOTE BOOSTER POWER SUPPLY, 10A, 120VAC, RED	0	0	0	0
	1	BPS10A MAINBOARD	MAINBOARD FOR BPS10A ASSEMBLY	0.07	0.07	0.27	0.27

CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
P2-N1		4	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 15CD	0	0	0.028	0.112
	C	10	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.35
	C	1	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.035
		1	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.035
P2-N2		2	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 15CD	0	0	0.028	0.056
	C	3	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.105
	C	5	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.175
	C	4	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD	0	0	0.035	0.14
		8	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.28
P2-N3	WP	2	WG4RF-SVMHC	25/70V SPEAKER/STROBE, RED, FIRE, CLEAR, 102, 123, 147, 161 CD 102CD	0	0	0.324	0.6480
	WP	3	WG4RF-SVMHC	25/70V SPEAKER/STROBE, RED, FIRE, CLEAR, 102, 123, 147, 161 CD 161CD	0	0	0.495	1.49

TOTAL STANDBY (A)	0.07	TOTAL ALARM (A)	3.69
REQUIRED STANDBY TIME (HOURS)		24	
REQUIRED ALARM TIME (MINUTES)		15	
SECONDARY STANDBY LOAD (A)	0.07	24	1.68
SECONDARY ALARM LOAD (A)	3.69	0.250	0.923
STANDBY AND ALARM SUBTOTAL (AMP HOURS)		2.60	
DERATING FACTOR		1.25	
SECONDARY LOAD REQUIREMENTS (AMP HOURS)		3.25	
PROVIDE (2) 12V 7AH BATTERIES			

PANEL P3 (BPS10A) BATTERY CALCULATION

(SECONDARY POWER SOURCE REQUIREMENTS)

PANEL COMPONENTS	QTY	PART NO.	DESCRIPTION	STANDBY CURRENT CURRENT DRAW (A)	STANDBY CURRENT TOTAL (A)	SECONDARY ALARM CURRENT CURRENT DRAW (A)	SECONDARY ALARM CURRENT TOTAL (A)
	1	BPS10A	REMOTE BOOSTER POWER SUPPLY, 10A, 120VAC, RED	0	0	0	0
	1	BPS10A MAINBOARD	MAINBOARD FOR BPS10A ASSEMBLY	0.07	0.07	0.27	0.27

CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
P3-N1		4	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 110CD	0	0	0.028	0.112
		1	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 30CD	0	0	0.028	0.028
		2	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 75CD	0	0	0.028	0.056
	C	1	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 115CD	0	0	0.035	0.035
	C	2	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.07
		5	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.175
P3-N2		1	G4VRF	WALL STROBE, RED, FIRE 15CD	0	0	0.028	0.028
	C	7	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.245
	C	3	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.105
	C	1	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD	0	0	0.035	0.035
		2	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.07
P3-N3		1	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 30CD	0	0	0.028	0.028
	C	7	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.245
	C	1	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.035
	C	3	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD	0	0	0.035	0.105
		4	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.14
	WP	2	WGVRF	OUTDOOR RATED STROBE, RED, FIRE 15CD	0	0	0.035	0.07
P3-N4		1	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 110CD	0	0	0.028	0.028
		1	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 15CD	0	0	0.028	0.028
		1	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 30CD	0	0	0.028	0.028
	C	1	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 115CD	0	0	0.035	0.035
	C	6	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.21
	C	3	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.105
	C	2	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD	0	0	0.035	0.07
		1	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.035

TOTAL STANDBY (A)	0.07	TOTAL ALARM (A)	2.39
REQUIRED STANDBY TIME (HOURS)		24	
REQUIRED ALARM TIME (MINUTES)		15	
SECONDARY STANDBY LOAD (A)	0.07	24	1.68
SECONDARY ALARM LOAD (A)	2.39	0.250	0.59775
STANDBY AND ALARM SUBTOTAL (AMP HOURS)		2.28	
DERATING FACTOR		1.25	
SECONDARY LOAD REQUIREMENTS (AMP HOURS)		2.85	
PROVIDE (2) 12V 7AH BATTERIES			

PANEL P5 (BPS10A) BATTERY CALCULATION

(SECONDARY POWER SOURCE REQUIREMENTS)

PANEL COMPONENTS	QTY	PART NO.	DESCRIPTION	STANDBY CURRENT CURRENT DRAW (A)	STANDBY CURRENT TOTAL (A)	SECONDARY ALARM CURRENT CURRENT DRAW (A)	SECONDARY ALARM CURRENT TOTAL (A)
	1	BPS10A	REMOTE BOOSTER POWER SUPPLY, 10A, 120VAC, RED	0	0	0	0
	1	BPS10A MAINBOARD	MAINBOARD FOR BPS10A ASSEMBLY	0.07	0.07	0.27	0.27

CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
P5-N1	C	4	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.14
	C	2	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.07
	C	8	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD	0	0	0.035	0.28
		8	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.28
P5-N2	C	5	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.175
	C	5	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.175
	C	2	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD	0	0	0.035	0.07
		4	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.14
P5-N3		1	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 30CD	0	0	0.028	0.028
	C	5	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.175
	C	4	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.14
		5	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.175
P5-N4	C	8	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.28
	C	2	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.07
		9	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.315

TOTAL STANDBY (A)	0.07	TOTAL ALARM (A)	2.78
REQUIRED STANDBY TIME (HOURS)		24	
REQUIRED ALARM TIME (MINUTES)		15	
SECONDARY STANDBY LOAD (A)	0.07	24	1.68
SECONDARY ALARM LOAD (A)	2.78	0.250	0.696
STANDBY AND ALARM SUBTOTAL (AMP HOURS)		2.38	
DERATING FACTOR		1.25	
SECONDARY LOAD REQUIREMENTS (AMP HOURS)		2.97	
PROVIDE (2) 12V 7AH BATTERIES			

PANEL P4 (BPS10A) BATTERY CALCULATION

(SECONDARY POWER SOURCE REQUIREMENTS)

PANEL COMPONENTS	QTY	PART NO.	DESCRIPTION	STANDBY CURRENT CURRENT DRAW (A)	STANDBY CURRENT TOTAL (A)	SECONDARY ALARM CURRENT CURRENT DRAW (A)	SECONDARY ALARM CURRENT TOTAL (A)
	1	BPS10A	REMOTE BOOSTER POWER SUPPLY, 10A, 120VAC, RED	0	0	0	0
	1	BPS10A MAINBOARD	MAINBOARD FOR BPS10A ASSEMBLY	0.07	0.07	0.27	0.27

CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
P4-N1		1	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 30CD	0	0	0.028	0.028
		1	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 75CD	0	0	0.028	0.028
	C	4	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.14
	C	3	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.105
	C	3	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD	0	0	0.035	0.105
		13	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.455
	WP	1	WGVRF	OUTDOOR RATED STROBE, RED, FIRE 15CD	0	0	0.035	0.035
P4-N2		1	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 15CD	0	0	0.028	0.028
	C	4	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.14
	C	9	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD	0	0	0.035	0.315
		7	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.245
P4-N3	C	14	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.49
	C	2	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.07
P4-N4	C	7	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.245
	C	5	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.175
	C	3	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD	0	0	0.035	0.105
		5	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.175

TOTAL STANDBY (A)	0.07	TOTAL ALARM (A)	3.15
REQUIRED STANDBY TIME (HOURS)		24	
REQUIRED ALARM TIME (MINUTES)		15	
SECONDARY STANDBY LOAD (A)	0.07	24	1.68
SECONDARY ALARM LOAD (A)	3.15	0.250	0.788
STANDBY AND ALARM SUBTOTAL (AMP HOURS)		2.47	
DERATING FACTOR		1.25	
SECONDARY LOAD REQUIREMENTS (AMP HOURS)		3.09	
PROVIDE (2) 12V 7AH BATTERIES			

PANEL P6 (BPS10A) BATTERY CALCULATION

(SECONDARY POWER SOURCE REQUIREMENTS)

PANEL COMPONENTS	QTY	PART NO.	DESCRIPTION	STANDBY CURRENT CURRENT DRAW (A)	STANDBY CURRENT TOTAL (A)	SECONDARY ALARM CURRENT CURRENT DRAW (A)	SECONDARY ALARM CURRENT TOTAL (A)
	1	BPS10A	REMOTE BOOSTER POWER SUPPLY, 10A, 120VAC, RED	0	0	0	0
	1	BPS10A MAINBOARD	MAINBOARD FOR BPS10A ASSEMBLY	0.07	0.07	0.27	0.27

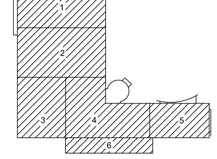
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
P6-N1	C	10	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.35
	C	3	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.105
	C	1	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD	0	0	0.035	0.035
		13	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.455
P6-N2	C	6	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.21
	C	5	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.175
		15	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.5250

TOTAL STANDBY (A)	0.07	TOTAL ALARM (A)	2.13
REQUIRED STANDBY TIME (HOURS)		24	
REQUIRED ALARM TIME (MINUTES)		15	
SECONDARY STANDBY LOAD (A)	0.07	24	1.68
SECONDARY ALARM LOAD (A)	2.13	0.250	0.531
STANDBY AND ALARM SUBTOTAL (AMP HOURS)		2.21	
DERATING FACTOR		1.25	
SECONDARY LOAD REQUIREMENTS (AMP HOURS)		2.76	
PROVIDE (2) 12V 7AH BATTERIES			

Consultant

Architect / Engineer of Record

KEYPLAN



Revision

	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

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Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Agency Approval

OSHPD No. I230010-43-00

INCREMENT 4 - I230010-43-04

Facility

Project

Title

CALCULATIONS SHEET #7

Building ID:	Floor Lev:
Scale: NTS	KP Proj. No.
Drwn By: LW	Stantec No.
Chckd By: VL	

Sheet

H-FA064

ORIGINAL SHEET - ARCH E1

PANEL P7 (BPS10A) BATTERY CALCULATION

(SECONDARY POWER SOURCE REQUIREMENTS)

PANEL COMPONENTS	QTY	PART NO.	DESCRIPTION	STANDBY CURRENT CURRENT DRAW (A)	STANDBY CURRENT TOTAL (A)	SECONDARY ALARM CURRENT CURRENT DRAW (A)	SECONDARY ALARM CURRENT TOTAL (A)
	1	BPS10A	REMOTE BOOSTER POWER SUPPLY, 10A, 120VAC, RED	0	0	0	0
	1	BPS10A MAINBOARD	MAINBOARD FOR BPS10A ASSEMBLY	0.07	0.07	0.27	0.27

CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
P7-N1	C	6	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.21
	C	1	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.035
	C	7	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD	0	0	0.035	0.245
		8	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.28
P7-N2		1	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 30CD	0	0	0.028	0.028
	C	5	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.175
	C	2	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD	0	0	0.035	0.07
		8	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.28
P7-N3	C	2	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.07
	C	2	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.07
		12	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.42
	WP	1	WGVRF	OUTDOOR RATED STROBE, RED, FIRE 15CD	0	0	0.035	0.035
P7-N4		1	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 30CD	0	0	0.028	0.028
		1	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 75CD	0	0	0.028	0.028
	C	5	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.175
	C	4	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.14
		12	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.42

TOTAL STANDBY (A)	0.07	TOTAL ALARM (A)	2.98
REQUIRED STANDBY TIME (HOURS)		24	
REQUIRED ALARM TIME (MINUTES)		15	
SECONDARY STANDBY LOAD (A)	0.07	24	1.68
SECONDARY ALARM LOAD (A)	2.98	0.250	0.74475
STANDBY AND ALARM SUBTOTAL (AMP HOURS)		2.42	
DERATING FACTOR		1.25	
SECONDARY LOAD REQUIREMENTS (AMP HOURS)		3.03	
PROVIDE (2) 12V 7AH BATTERIES			

PANEL P8 (BPS10A) BATTERY CALCULATION

(SECONDARY POWER SOURCE REQUIREMENTS)

PANEL COMPONENTS	QTY	PART NO.	DESCRIPTION	STANDBY CURRENT CURRENT DRAW (A)	STANDBY CURRENT TOTAL (A)	SECONDARY ALARM CURRENT CURRENT DRAW (A)	SECONDARY ALARM CURRENT TOTAL (A)
	1	BPS10A	REMOTE BOOSTER POWER SUPPLY, 10A, 120VAC, RED	0	0	0	0
	1	BPS10A MAINBOARD	MAINBOARD FOR BPS10A ASSEMBLY	0.07	0.07	0.27	0.27

CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
P8-N1		1	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 30CD	0	0	0.028	0.028
		1	G4VRF	WALL STROBE, RED, FIRE 15CD	0	0	0.028	0.028
	C	3	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.105
	C	8	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD	0	0	0.035	0.28
		8	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.28
P8-N2		1	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 30CD	0	0	0.028	0.028
		1	G4VRF	WALL STROBE, RED, FIRE 15CD	0	0	0.028	0.028
	C	10	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.35
	C	4	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.14
	C	4	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD	0	0	0.035	0.14
		5	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.175

TOTAL STANDBY (A)	0.07	TOTAL ALARM (A)	1.85
REQUIRED STANDBY TIME (HOURS)		24	
REQUIRED ALARM TIME (MINUTES)		15	
SECONDARY STANDBY LOAD (A)	0.07	24	1.68
SECONDARY ALARM LOAD (A)	1.85	0.25	0.463
STANDBY AND ALARM SUBTOTAL (AMP HOURS)		2.14	
DERATING FACTOR		1.25	
SECONDARY LOAD REQUIREMENTS (AMP HOURS)		2.68	
PROVIDE (2) 12V 7AH BATTERIES			

PANEL P9 (BPS10A) BATTERY CALCULATION

(SECONDARY POWER SOURCE REQUIREMENTS)

PANEL COMPONENTS	QTY	PART NO.	DESCRIPTION	STANDBY CURRENT CURRENT DRAW (A)	STANDBY CURRENT TOTAL (A)	SECONDARY ALARM CURRENT CURRENT DRAW (A)	SECONDARY ALARM CURRENT TOTAL (A)
	1	BPS10A	REMOTE BOOSTER POWER SUPPLY, 10A, 120VAC, RED	0	0	0	0
	1	BPS10A MAINBOARD	MAINBOARD FOR BPS10A ASSEMBLY	0.07	0.07	0.27	0.27

CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
P9-AUX1	S LF	10	SIGA-OSD W/SIGA-AB4G-LF BASE	INTELLIGENT OPTICAL SMOKE DETECTOR	0	0	0.15	1.50
P9-N1	C	7	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.245
	C	1	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD	0	0	0.035	0.035
		10	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.35
	WP	3	WGVRF	OUTDOOR STROBE, 15/30CD, RED, FIRE 15CD	0	0	0.035	0.105
P9-N2	H	6	GCF-VMH	STROBE, CEILING, WHITE, FIRE, HIGH CANDELA 177CD	0	0	0.342	2.05
P9-N3	H	4	GCF-VMH	STROBE, CEILING, WHITE, FIRE, HIGH CANDELA 177CD	0	0	0.342	1.37
	C	3	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.105
		1	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.035

TOTAL STANDBY (A)	0.07	TOTAL ALARM (A)	6.07
REQUIRED STANDBY TIME (HOURS)		24	
REQUIRED ALARM TIME (MINUTES)		15	
SECONDARY STANDBY LOAD (A)	0.07	24	1.68
SECONDARY ALARM LOAD (A)	6.07	0.25	1.52
STANDBY AND ALARM SUBTOTAL (AMP HOURS)		3.20	
DERATING FACTOR		1.25	
SECONDARY LOAD REQUIREMENTS (AMP HOURS)		4.00	
PROVIDE (2) 12V 7AH BATTERIES			

PANEL P10 (BPS10A) BATTERY CALCULATION

(SECONDARY POWER SOURCE REQUIREMENTS)

PANEL COMPONENTS	QTY	PART NO.	DESCRIPTION	STANDBY CURRENT CURRENT DRAW (A)	STANDBY CURRENT TOTAL (A)	SECONDARY ALARM CURRENT CURRENT DRAW (A)	SECONDARY ALARM CURRENT TOTAL (A)
	1	BPS10A	REMOTE BOOSTER POWER SUPPLY, 10A, 120VAC, RED	0	0	0	0
	1	BPS10A MAINBOARD	MAINBOARD FOR BPS10A ASSEMBLY	0.07	0.07	0.27	0.27

CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
P10-N1		1	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 15CD	0	0	0.028	0.028
		1	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 30CD	0	0	0.028	0.028
		3	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 75CD	0	0	0.028	0.084
	C	6	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.21
	C	1	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.035
	C	1	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD	0	0	0.035	0.035
		6	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.21
P10-N2	C	3	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.105
	C	1	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.035
	C	6	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD	0	0	0.035	0.21
		8	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.28

TOTAL STANDBY (A)	0.07	TOTAL ALARM (A)	1.53
REQUIRED STANDBY TIME (HOURS)		24	
REQUIRED ALARM TIME (MINUTES)		15	
SECONDARY STANDBY LOAD (A)	0.07	24	1.68
SECONDARY ALARM LOAD (A)	1.53	0.25	0.3825
STANDBY AND ALARM SUBTOTAL (AMP HOURS)		2.06	
DERATING FACTOR		1.25	
SECONDARY LOAD REQUIREMENTS (AMP HOURS)		2.58	
PROVIDE (2) 12V 7AH BATTERIES			

PANEL P11 (BPS10A) BATTERY CALCULATION

(SECONDARY POWER SOURCE REQUIREMENTS)

PANEL COMPONENTS	QTY	PART NO.	DESCRIPTION	STANDBY CURRENT CURRENT DRAW (A)	STANDBY CURRENT TOTAL (A)	SECONDARY ALARM CURRENT CURRENT DRAW (A)	SECONDARY ALARM CURRENT TOTAL (A)
	1	BPS10A	REMOTE BOOSTER POWER SUPPLY, 10A, 120VAC, RED	0	0	0	0
	1	BPS10A MAINBOARD	MAINBOARD FOR BPS10A ASSEMBLY	0.07	0.07	0.27	0.27

CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
P11-N1		1	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 30CD	0	0	0.028	0.028
	C	2	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.07
	C	6	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD	0	0	0.035	0.21
		10	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.35
		2	GCVRF	STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.07
P11-N2		1	G4VRF	WALL STROBE, RED, FIRE 15CD	0	0	0.028	0.028
	C	2	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 115CD	0	0	0.035	0.07
	C	2	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.07
	C	2	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.07
	C	4	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD	0	0	0.035	0.14
		3	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.105

TOTAL STANDBY (A)	0.07	TOTAL ALARM (A)	1.48
REQUIRED STANDBY TIME (HOURS)		24	
REQUIRED ALARM TIME (MINUTES)		15	
SECONDARY STANDBY LOAD (A)	0.07	24	1.68
SECONDARY ALARM LOAD (A)	1.48	0.25	0.37025
STANDBY AND ALARM SUBTOTAL (AMP HOURS)		2.05	
DERATING FACTOR		1.25	
SECONDARY LOAD REQUIREMENTS (AMP HOURS)		2.56	
PROVIDE (2) 12V 7AH BATTERIES			

PANEL P12 (BPS10A) BATTERY CALCULATION

(SECONDARY POWER SOURCE REQUIREMENTS)

PANEL COMPONENTS	QTY	PART NO.	DESCRIPTION	STANDBY CURRENT CURRENT DRAW (A)	STANDBY CURRENT TOTAL (A)	SECONDARY ALARM CURRENT CURRENT DRAW (A)	SECONDARY ALARM CURRENT TOTAL (A)
	1	BPS10A	REMOTE BOOSTER POWER SUPPLY, 10A, 120VAC, RED	0	0	0	0
	1	BPS10A MAINBOARD	MAINBOARD FOR BPS10A ASSEMBLY	0.07	0.07	0.27	0.27

CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
P12-N1		1	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 15CD	0	0	0.028	0.028
		1	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 30CD	0	0	0.028	0.028
		1	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 75CD	0	0	0.028	0.028
		1	G4VRF	WALL STROBE, RED, FIRE 30CD	0	0	0.028	0.028
	C	4	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.14
	C	1	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.035
	C	2	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD	0	0	0.035	0.07
		2	GCVRF	STROBE, CEILING, RED, FIRE 115CD	0	0	0.035	0.07
P12-N2		2	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 75CD	0	0	0.028	0.056
	C	1	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.035
	C	7	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD	0	0	0.035	0.245
		3	GCVRF	STROBE, CEILING, RED, FIRE 115CD	0	0	0.035	0.105
		4	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.14

TOTAL STANDBY (A)	0.07	TOTAL ALARM (A)	1.28
REQUIRED STANDBY TIME (HOURS)		24	
REQUIRED ALARM TIME (MINUTES)		15	
SECONDARY STANDBY LOAD (A)	0.07	24	1.68
SECONDARY ALARM LOAD (A)	1.28	0.25	0.3195
STANDBY AND ALARM SUBTOTAL (AMP HOURS)		2.00	
DERATING FACTOR		1.25	
SECONDARY LOAD REQUIREMENTS (AMP HOURS)		2.50	
PROVIDE (2) 12V 7AH BATTERIES			

PANEL P13 (BPS10A) BATTERY CALCULATION

(SECONDARY POWER SOURCE REQUIREMENTS)

PANEL COMPONENTS	QTY	PART NO.	DESCRIPTION	STANDBY CURRENT CURRENT DRAW (A)	STANDBY CURRENT TOTAL (A)	SECONDARY ALARM CURRENT CURRENT DRAW (A)	SECONDARY ALARM CURRENT TOTAL (A)
	1	BPS10A	REMOTE BOOSTER POWER SUPPLY, 10A, 120VAC, RED	0	0	0	0
	1	BPS10A MAINBOARD	MAINBOARD FOR BPS10A ASSEMBLY	0.07	0.07	0.27	0.27

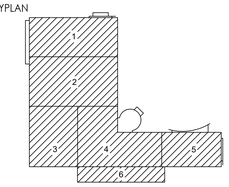
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
P13-N1		1	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 15CD	0	0	0.028	0.028
		1	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 30CD	0	0	0.028	0.028
		1	G4VRF	WALL STROBE, RED, FIRE 15CD	0	0	0.028	0.028
	C	1	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.035
	C	4	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD	0	0	0.035	0.14
		5	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.175
P13-N2	C	1	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.035
	C	1	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.035
	C	5	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD	0	0	0.035	0.175
		4	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.14
P13-N3		1	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 30CD	0	0	0.028	0.028
	C	5	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.175
	C	1	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.035
	C	7	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD	0	0	0.035	0.245
		9	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.315
P13-N4		1	G4SVRF	SPEAKER/STROBE, WALL, RED, FIRE 30CD	0	0	0.028	0.028
		1	G4VRF	WALL STROBE, RED, FIRE 15CD	0	0	0.028	0.028
	C	6	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.21
	C	5	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.175
	C	3	GCSVRF	SPEAKER/STROBE, CEILING, RED, FIRE 75CD	0	0	0.035	0.105
		4	GCVRF	STROBE, CEILING, RED, FIRE 15CD	0	0	0.035	0.14
		1	GCVRF	STROBE, CEILING, RED, FIRE 30CD	0	0	0.035	0.035

TOTAL STANDBY (A)	0.07	TOTAL ALARM (A)	2.61
REQUIRED STANDBY TIME (HOURS)		24	
REQUIRED ALARM TIME (MINUTES)		15	
SECONDARY STANDBY LOAD (A)	0.07	24	1.68
SECONDARY ALARM LOAD (A)	2.61	0.25	0.6520
STANDBY AND ALARM SUBTOTAL (AMP HOURS)		2.33	
DERATING FACTOR		1.25	
SECONDARY LOAD REQUIREMENTS (AMP HOURS)		2.91	
PROVIDE (2) 12V 7AH BATTERIES			

Consultant

Architect / Engineer of Record

KEYPLAN



Revision

	By	Appd	YYYY.MM.DD
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By	Appd	YYYY.MM.DD
Dwn.	Dsgn.	Chkd.

Agency Approval

OSHPD No. 123010-43-00
INCREMENT 4 - 123010-43-04

Facility

Project

Title

CALCULATIONS SHEET #8

Building ID:	Floor Lev.:
Scale NTS	KP Proj. No.
Dwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA065

ORIGINAL SHEET - ARCH E1

LUMP SUM REPORT SUMMARY

SOURCE	CIRCUIT	PART NO	MAX. CARD CURRENT (A)	TOTAL CARD CURRENT (A)	SPARE CARD CURRENT (A)	SPARE CARD CURRENT %	MAX. CIRCUIT CURRENT (A)	TOTAL CIRCUIT CURRENT (A)	SPARE CIRCUIT CURRENT (A)	SPARE CIRCUIT CURRENT %	WIRE GAUGE	WIRE RESISTANCE (Ω/KFT)	TOTAL CIRCUIT LENGTH (FT)	TOTAL CIRCUIT RESISTANCE (Ω)	STARTING CALCULATION VOLTAGE	MIN. OPERATIONAL VOLTAGE	MAX. VOLTAGE DROP	END OF LINE VOLTAGE	VOLTAGE DROP %
A1 (APS10A)	A1•N1	APS10A MAINBOARD	10	1.09	8.91	89.15 %	3	0.5040	2.50	83.20 %	12	1.80	724	2.61	20.40	16	1.31	19.09	6.44 %
	A1•N2						3	0.5810	2.42	80.63 %	12	1.80	710	2.56	20.40	16	1.49	18.91	7.28 %
A2 (APS10A)	A2•N1	APS10A MAINBOARD	10	1.90	8.10	81.01 %	3	0.6580	2.34	78.07 %	12	1.80	433	1.56	20.40	16	1.03	19.37	5.02 %
	A2•N2						3	0.7910	2.21	73.63 %	12	1.80	642	2.31	20.40	16	1.83	18.57	8.97 %
	AUX1						3	0.45	2.55	85.00 %	12	1.80	378	1.36	20.40	16	0.612730	19.79	3.00 %
A3 (APS10A)	A3•N1	APS10A MAINBOARD	10	0.38	9.62	96.20 %	3	0.21	2.79	93.00 %	12	1.80	354	1.27	20.40	16	0.26754	20.13	1.31 %
	A3•N3						3	0.17	2.83	94.33 %	12	1.80	783	2.82	20.40	16	0.47938	19.92	2.35 %
A4 (APS10A)	A4•N1	APS10A MAINBOARD	10	2.34	7.66	76.62 %	3	0.910	2.09	69.67 %	12	1.80	462	1.66	20.40	16	1.51	18.89	7.42 %
	A4•N2						3	0.8050	2.20	73.17 %	12	1.80	513	1.85	20.40	16	1.49	18.91	7.29 %
	A4•N3						3	0.6230	2.38	79.23 %	12	1.80	624	2.25	20.40	16	1.40	19.00	6.86 %
A5 (APS10A)	A5•N1	APS10A MAINBOARD	10	2.29	7.72	77.15 %	3	0.840	2.16	72.00 %	12	1.80	491	1.77	20.40	16	1.49	18.91	7.28 %
	A5•N2						3	0.780	2.22	74.00 %	12	1.80	550	1.98	20.40	16	1.54	18.86	7.57 %
	A5•N3						3	0.6650	2.34	77.83 %	12	1.80	450	1.62	20.40	16	1.08	19.32	5.29 %
P1 (BPS10A)	P1•N1	BPS10A MAINBOARD	10	2.80	7.20	71.99 %	3	2.21	0.7870	26.23 %	12	1.80	247	0.888	20.40	16	1.96	18.44	9.63 %
	P1•N2						3	0.308	2.69	89.73 %	12	1.80	420	1.51	20.40	16	0.46617	19.93	2.29 %
	P1•N3						3	0.28	2.72	90.67 %	12	1.80	357	1.29	20.40	16	0.35994	20.04	1.76 %
P2 (BPS10A)	P2•N1	BPS10A MAINBOARD	10	3.42	6.58	65.79 %	3	0.5320	2.47	82.27 %	12	1.80	572	2.06	20.40	16	1.10	19.30	5.37 %
	P2•N2						3	0.7560	2.24	74.80 %	12	1.80	575	2.07	20.40	16	1.56	18.84	7.67 %
	P2•N3						3	2.13	0.8670	28.90 %	12	1.80	323	1.16	20.40	16	2.48	17.92	12.17 %
P3 (BPS10A)	P3•N1	BPS10A MAINBOARD	10	2.12	7.88	78.79 %	3	0.476	2.52	84.13 %	12	1.80	452	1.63	20.40	16	0.775040	19.62	3.80 %
	P3•N2						3	0.483	2.52	83.90 %	12	1.80	395	1.42	20.40	16	0.686030	19.71	3.36 %
	P3•N3						3	0.6230	2.38	79.23 %	12	1.80	451	1.63	20.40	16	1.01	19.39	4.96 %
	P3•N4						3	0.5390	2.46	82.03 %	12	1.80	445	1.60	20.40	16	0.863190	19.54	4.23 %
P4 (BPS10A)	P4•N1	BPS10A MAINBOARD	10	2.88	7.12	71.16 %	3	0.8960	2.10	70.13 %	12	1.80	407	1.46	20.40	16	1.31	19.09	6.43 %
	P4•N2						3	0.7280	2.27	75.73 %	12	1.80	540	1.95	20.40	16	1.42	18.98	6.94 %
	P4•N3						3	0.560	2.44	81.33 %	12	1.80	716	2.58	20.40	16	1.44	18.96	7.07 %
	P4•N4						3	0.70	2.30	76.67 %	12	1.80	457	1.65	20.40	16	1.15	19.25	5.65 %
P5 (BPS10A)	P5•N1	BPS10A MAINBOARD	10	2.51	7.49	74.87 %	3	0.770	2.23	74.33 %	12	1.80	454	1.64	20.40	16	1.26	19.14	6.17 %
	P5•N2						3	0.560	2.44	81.33 %	12	1.80	282	1.01	20.40	16	0.56770	19.83	2.78 %
	P5•N3						3	0.5180	2.48	82.73 %	12	1.80	370	1.33	20.40	16	0.690120	19.71	3.38 %
	P5•N4						3	0.6650	2.34	77.83 %	12	1.80	435	1.57	20.40	16	1.04	19.36	5.11 %
P6 (BPS10A)	P6•N1	BPS10A MAINBOARD	10	1.86	8.15	81.45 %	3	0.9450	2.06	68.50 %	12	1.80	473	1.70	20.40	16	1.61	18.79	7.89 %
	P6•N2						3	0.910	2.09	69.67 %	12	1.80	486	1.75	20.40	16	1.59	18.81	7.80 %
P7 (BPS10A)	P7•N1	BPS10A MAINBOARD	10	2.71	7.29	72.91 %	3	0.770	2.23	74.33 %	12	1.80	516	1.86	20.40	16	1.43	18.97	7.01 %
	P7•N2						3	0.5530	2.45	81.57 %	12	1.80	337	1.21	20.40	16	0.670290	19.73	3.29 %
	P7•N3						3	0.5950	2.41	80.17 %	12	1.80	325	1.17	20.40	16	0.695310	19.70	3.41 %
	P7•N4						3	0.7910	2.21	73.63 %	12	1.80	515	1.85	20.40	16	1.47	18.93	7.19 %

CALCULATION METHODS:
TOTAL RESISTANCE (Ω) = WIRE RESISTANCE (Ω/FT) X 2 X TOTAL CIRCUIT LENGTH (FT)
TOTAL VOLTAGE DROP = TOTAL RESISTANCE (Ω) X TOTAL CIRCUIT CURRENT (A)

SPEAKER SCHEDULE SUMMARY

SOURCE	CIRCUIT	PART NO	MAX. CARD WATTS	TOTAL CARD WATTS	SPARE CARD WATTS	SPARE CARD CURRENT %	MAX. CIRCUIT WATTS	TOTAL CIRCUIT WATTS	SPARE CIRCUIT WATTS	SPARE CIRCUIT WATTS %	WIRE GAUGE	WIRE RESISTANCE (Ω/KFT)	TOTAL CIRCUIT LENGTH (FT)	TOTAL CIRCUIT RESISTANCE (Ω)	STARTING CALCULATION VOLTAGE	MIN. OPERATIONAL VOLTAGE	MAX. DB LOSS	END OF LINE VOLTAGE	VOLTAGE DROP %
A1 (APS10A)	S1	SIGA-AA50	50	46.25	3.75	7.50 %	50	46.25	3.75	7.50 %	16	4.10	3	0.0246	24.80	22.30	-0.016	24.76	0.18 %
	S2	SIGA-AA50	50	10	40	80.00 %	50	10	40	80.00 %	16	4.10	2	0.0164	24.80	22.30	-0.002	24.80	0.03 %
A2 (APS10A)	S1	SIGA-AA50	50	39.50	10.50	21.00 %	50	39.50	10.50	21.00 %	16	4.10	3	0.0246	19.91	22.30	-0.017	19.87	0.20 %
A3 (APS10A)	S1	SIGA-AA50	50	38.75	11.25	22.50 %	50	38.75	11.25	22.50 %	16	4.10	3	0.02665	-10.63	22.30	0.033686	-10.67	-0.39 %
A4 (APS10A)	S1	SIGA-AA50	50	22.75	27.25	54.50 %	50	22.75	27.25	54.50 %	16	4.10	1	0.01025	24.15	22.30	-0.003	24.14	0.04 %
	S2	SIGA-AA50	50	29	21	42.00 %	50	29	21	42.00 %	16	4.10	2	0.01845	24.15	22.30	-0.008	24.13	0.09 %
A5 (APS10A)	S1	SIGA-AA50	50	162.50	-112.50	-225.00 %	50	162.50	-112.50	-225.00 %	16	4.10	3	0.025967	-3.85	22.30	0.37247	-4.020	-4.38 %
MFC-A 1 (MFC-A)	S1	SIGA-MCC1	50	5.75	44.25	88.50 %	50	5.75	44.25	88.50 %	16	4.10	538	4.41	24.95	22.30	-0.196	24.40	2.23 %
	S2	SIGA-MCC1	50	9	41	82.00 %	50	9	41	82.00 %	16	4.10	415	3.41	24.95	22.30	-0.269	24.19	3.05 %
	S3	SIGA-MCC1	50	7.50	42.50	85.00 %	50	7.50	42.50	85.00 %	16	4.10	578	4.74	24.95	22.30	-0.255	24.23	2.89 %
	S4	SIGA-MCC1	50	7.50	42.50	85.00 %	50	7.50	42.50	85.00 %	16	4.10	557	4.57	24.95	22.30	-0.311	24.08	3.52 %
	S5	SIGA-MCC1	50	8	42	84.00 %	50	8	42	84.00 %	16	4.10	677	5.55	24.95	22.30	-0.404	23.82	4.54 %
	S6	SIGA-MCC1	50	8.50	41.50	83.00 %	50	8.50	41.50	83.00 %	16	4.10	713	5.85	24.95	22.30	-0.525132	23.49	5.87 %
MFC-A 2 (MFC-A)	S7	SIGA-MCC1	50	10	40	80.00 %	50	10	40	80.00 %	16	4.10	334	2.74	24.99	22.30	-0.228	24.35	2.59 %
MFC-A 3 (MFC-A)	S10	SIGA-MCC1	50	7.50	42.50	85.00 %	50	7.50	42.50	85.00 %	16	4.10	450	3.69	24.96	22.30	-0.215	24.35	2.44 %
	S11	SIGA-MCC1	50	5	45	90.00 %	50	5	45	90.00 %	16	4.10	374	3.07	24.96	22.30	-0.103	24.67	1.18 %
	S12	SIGA-MCC1	50	5.50	44.50	89.00 %	50	5.50	44.50	89.00 %	16	4.10	453	3.72	24.96	22.30	-0.147	24.54	1.68 %
	S13	SIGA-MCC1	50	7.50	42.50	85.00 %	50	7.50	42.50	85.00 %	16	4.10	447	3.66	24.96	22.30	-0.234	24.30	2.66 %
	S8	SIGA-MCC1	50	7.75	42.25	84.50 %	50	7.75	42.25	84.50 %	16	4.10	430	3.52	24.96	22.30	-0.229470	24.31	2.61 %
	S9	SIGA-MCC1	50	6.25	43.75	87.50 %	50	6.25	43.75	87.50 %	16	4.10	639	5.24	24.96	22.30	-0.199	24.40	2.26 %
MFC-A 4 (MFC-A)	S14	SIGA-MCC1	50	6.50	43.50	87.00 %	50	6.50	43.50	87.00 %	16	4.10	411	3.37	24.96	22.30	-0.160	24.50	1.82 %
	S15	SIGA-MCC1	50	8	42	84.00 %	50	8	42	84.00 %	16	4.10	713	5.84	24.96	22.30	-0.341	24	3.85 %
	S16	SIGA-MCC1	50	12	38	76.00 %	50	12	38	76.00 %	16	4.10	547	4.49	24.96	22.30	-0.488	23.59	5.47 %
	S17	SIGA-MCC1	50	8.75	41.25	82.50 %	50	8.75	41.25	82.50 %	16	4.10	462	3.79	24.96	22.30	-0.289	24.14	3.27 %
	S18	SIGA-MCC1	50	3.50	46.50	93.00 %	50	3.50	46.50	93.00 %	16	4.10	355	2.91	24.96	22.30	-0.109	24.65	1.25 %
MFC-A 5 (MFC-A)	S19	SIGA-MCC1	50	7	43	86.00 %	50	7	43	86.00 %	16	4.10	438	3.59	24.99	22.30	-0.192	24.45	2.18 %
	S20	SIGA-MCC1	50	6	44	88.00 %	50	6	44	88.00 %	16	4.10	258	2.12	24.99	22.30	-0.102	24.70	1.16 %
	S21	SIGA-MCC1	50	9.75	40.25	80.50 %	50	9.75	40.25	80.50 %	16	4.10	647	5.30	24.99	22.30	-0.433	23.78	4.86 %
MFC-A 6 (MFC-A)	S22	SIGA-MCC1	50	10	40	80.00 %	50	10	40	80.00 %	16	4.10	817	6.70	24.98	22.30	-0.464	23.68	5.20 %
	S23	SIGA-MCC1	50	6.50	43.50	87.00 %	50	6.50	43.50	87.00 %	16	4.10	638	5.23	24.98	22.30	-0.352	23.99	3.98 %
	S24	SIGA-MCC1	50	7	43	86.00 %	50	7	43	86.00 %	16	4.10	471	3.86	24.98	22.30	-0.219	24.36	2.49 %
	S25	SIGA-MCC1	50	5.50	44.50	89.00 %	50	5.50	44.50	89.00 %	16	4.10	480	3.93	24.98	22.30	-0.194	24.43	2.20 %
MFC-A 7 (MFC-A)	S26	SIGA-MCC1	50	8.50	41.50	83.00 %	50	8.50	41.50	83.00 %	16	4.10	522	4.28	24.83	22.30	-0.338	23.88	3.81 %
	S27	SIGA-MCC1	50	5.75	44.25	88.50 %	50	5.75	44.25	88.50 %	16	4.10	521	4.27	24.83	22.30	-0.185	24.31	2.11 %
	S28	SIGA-MCC1	50	5.50	44.50	89.00 %	50	5.50	44.50	89.00 %	16	4.10	517	4.24	24.83	22.30	-0.199	24.27	2.26 %
	S29	SIGA-MCC1	50	9.25	40.75	81.50 %	50	9.25	40.75	81.50 %	16	4.10	877	7.19	24.83	22.30	-0.567035	23.26	6.32 %
	S30	SIGA-MCC1	50	3.50	46.50	93.00 %	50	3.50	46.50	93.00 %	16	4.10	421	3.45	24.83	22.30	-0.120	24.49	1.38 %

CALCULATION METHODS:
WATTS TO AMPS CONVERSION = DEVICE WATTS / VOLTAGE
RESISTANCE FROM PREVIOUS (Ω) = WIRE RESISTANCE (Ω/FT) X 2 X DIST. FROM PREVIOUS (FT)
VOLTAGE DROP FROM PREVIOUS = RESISTANCE FROM PREVIOUS (Ω) X REMAINING CURRENT (A)
DB LOSS FROM PREVIOUS = 20 × LOG (VOLTAGE AT PREVIOUS DEVICE / VOLTAGE AT DEVICE)
MAX. DB LOSS = 20 × LOG (VOLTAGE AT LAST DEVICE / START VOLTAGE)

LUMP SUM REPORT SUMMARY

SOURCE	CIRCUIT	PART NO	MAX. CARD CURRENT (A)	TOTAL CARD CURRENT (A)	SPARE CARD CURRENT (A)	SPARE CARD CURRENT %	MAX. CIRCUIT CURRENT (A)	TOTAL CIRCUIT CURRENT (A)	SPARE CIRCUIT CURRENT (A)	SPARE CIRCUIT CURRENT %	WIRE GAUGE	WIRE RESISTANCE (Ω/KFT)	TOTAL CIRCUIT LENGTH (FT)	TOTAL CIRCUIT RESISTANCE (Ω)	STARTING CALCULATION VOLTAGE	MIN. OPERATIONAL VOLTAGE	MAX. VOLTAGE DROP	END OF LINE VOLTAGE	VOLTAGE DROP %
A6 (APS10A)	A6•N1	APS10A MAINBOARD	10	1.75	8.25	82.50 %	3	0.385	2.62	87.17 %	12	1.80	450	1.62	20.40	16	0.623470	19.78	3.06 %
	A6•N2						3	0.7350	2.27	75.50 %	12	1.80	568	2.04	20.40	16	1.50	18.90	7.37 %
	A6•N3						3	0.630	2.37	79.00 %	12	1.80	676	2.43	20.40	16	1.53	18.87	7.52 %
A7 (APS10A)	A7•N1	APS10A MAINBOARD	10	1.64	8.36	83.62 %	3	0.49	2.51	83.67 %	12	1.80	389	1.40	20.40	16	0.685370	19.71	3.36 %
	A7•N2						3	0.5180	2.48	82.73 %	12	1.80	480	1.73	20.40	16	0.894890	19.51	4.39 %
	A7•N3						3	0.630	2.37	79.00 %	12	1.80	749	2.69	20.40	16	1.70	18.70	8.32 %
A8 (APS10A)	A8•N1	APS10A MAINBOARD	10	1.83	8.17	81.70 %	3	0.630	2.37	79.00 %	12	1.80	575	2.07	20.40	16	1.30	19.10	6.39 %
	AUX1						3	1.20	1.80	60.00 %	12	1.80	436	1.57	20.40	16	1.88	18.52	9.24 %
A9 (APS10A)	A9•N1	APS10A MAINBOARD	10	5.67	4.33	43.32 %	3	2.50	0.5020	16.73 %	12	1.80	197	0.710	20.40	16	1.77	18.63	8.70 %
	A9•N2						3	2.44	0.5650	18.83 %	12	1.80	212	0.764	20.40	16	1.86	18.54	9.12 %
	A9•N3						3	0.7350	2.27	75.50 %	12	1.80	434	1.56	20.40	16	1.15	19.25	5.63 %
P8 (BPS10A)	P8•N1	BPS10A MAINBOARD	10	1.58	8.42	84.18 %	3	0.7210	2.28	75.97 %	12	1.80	529	1.91	20.40	16	1.37	19.03	6.74 %
	P8•N2						3	0.8610	2.14	71.30 %	12	1.80	640	2.31	20.40	16	1.98	18.42	9.73 %
P9 (BPS10A)	AUX1	BPS10A MAINBOARD	10	5.80	4.21	42.05 %	3	1.50	1.50	50.00 %	12	1.80	354	1.28	20.40	16	1.91	18.49	9.38 %
	P9•N1						3	0.7350	2.27	75.50 %	12	1.80	574	2.07	20.40	16	1.52	18.88	7.45 %
	P9•N2						3	2.05	0.9480	31.60 %	12	1.80	338	1.22	20.40	16	2.49	17.91	12.22 %
	P9•N3						3	1.51	1.49	49.73 %	12	1.80	360	1.29	20.40	16	1.95	18.45	9.57 %
P10 (BPS10A)	P10•N1	BPS10A MAINBOARD	10	1.26	8.74	87.40 %	3	0.630	2.37	79.00 %	12	1.80	597	2.15	20.40	16	1.35	19.05	6.63 %
	P10•N2						3	0.630	2.37	79.00 %	12	1.80	429	1.54	20.40	16	0.973160	19.43	4.77 %
P11 (BPS10A)	P11•N1	BPS10A MAINBOARD	10	1.21	8.79	87.89 %	3	0.7280	2.27	75.73 %	12	1.80	852	3.07	20.40	16	2.23	18.17	10.95 %
	P11•N2						3	0.483	2.52	83.90 %	12	1.80	651	2.34	20.40	16	1.13	19.27	5.55 %
P12 (BPS10A)	P12•N1	BPS10A MAINBOARD	10	1.01	8.99	89.92 %	3	0.427	2.57	85.77 %	12	1.80	375	1.35	20.40	16	0.575720	19.82	2.82 %
	P12•N2						3	0.5810	2.42	80.63 %	12	1.80	470	1.69	20.40	16	0.983390	19.42	4.82 %
P13 (BPS10A)	P13•N1	BPS10A MAINBOARD	10	2.34	7.66	76.62 %	3	0.434	2.57	85.53 %	12	1.80	295	1.06	20.40	16	0.46069	19.94	2.26 %
	P13•N2						3	0.385	2.62	87.17 %	12	1.80	323	1.16	20.40	16	0.4473	19.95	2.19 %
	P13•N3						3	0.7980	2.20	73.40 %	12	1.80	553	1.99	20.40	16	1.59	18.81	7.79 %
	P13•N4						3	0.7210	2.28	75.97 %	12	1.80	451	1.62	20.40	16	1.17	19.23	5.73 %
P14 (BPS10A)	P14•N1	BPS10A MAINBOARD	10	2.18	7.82	78.23 %	3	0.5460	2.45	81.80 %	12	1.80	441	1.59	20.40	16	0.866250	19.53	4.25 %
	P14•N2						3	0.455	2.55	84.83 %	12	1.80	381	1.37	20.40	16	0.62450	19.78	3.06 %
	P14•N3						3	0.6580	2.34	78.07 %	12	1.80	365	1.32	20.40	16	0.865710	19.53	4.24 %
	P14•N4						3	0.5180	2.48	82.73 %	12	1.80	358	1.29	20.40	16	0.667630	19.73	3.27 %

CALCULATION METHODS:
TOTAL RESISTANCE (Ω) = WIRE RESISTANCE (Ω/FT) X 2 X TOTAL CIRCUIT LENGTH (FT)
TOTAL VOLTAGE DROP = TOTAL RESISTANCE (Ω) X TOTAL CIRCUIT CURRENT (A)

SPEAKER SCHEDULE SUMMARY

SOURCE	CIRCUIT	PART NO	MAX. CARD WATTS	TOTAL CARD WATTS	SPARE CARD WATTS	SPARE CARD CURRENT %	MAX. CIRCUIT WATTS	TOTAL CIRCUIT WATTS	SPARE CIRCUIT WATTS	SPARE CIRCUIT WATTS %	WIRE GAUGE	WIRE RESISTANCE (Ω/KFT)	TOTAL CIRCUIT LENGTH (FT)	TOTAL CIRCUIT RESISTANCE (Ω)	STARTING CALCULATION VOLTAGE	MIN. OPERATIONAL VOLTAGE	MAX. DB LOSS	END OF LINE VOLTAGE	VOLTAGE DROP %
A6 (APS10A)	S1	SIGA-AA50	50	25.50	24.50	49.00 %	50	25.50	24.50	49.00 %	16	4.10	4	0.0328	25	22.30	-0.012	24.97	0.13 %
	S2	SIGA-AA50	50	19	31	62.00 %	50	19	31	62.00 %	16	4.10	3	0.0246	25	22.30	-0.006	24.98	0.07 %
A7 (APS10A)	S1	SIGA-AA50	50	42.25	7.75	15.50 %	50	42.25	7.75	15.50 %	16	4.10	4	0.0328	25	22.30	-0.019280	24.94	0.22 %
	S2	SIGA-AA50	50	42.25	7.75	15.50 %	50	42.25	7.75	15.50 %	16	4.10	4	0.0328	25	22.30	-0.019280	24.94	0.22 %
A8 (APS10A)	S1	SIGA-AA50	50	26.75	23.25	46.50 %	50	26.75	23.25	46.50 %	16	4.10	3	0.02665	25	22.30	-0.010	24.97	0.11 %
A9 (APS10A)	S1	SIGA-AA50	50	24.50	25.50	51.00 %	50	24.50	25.50	51.00 %	16	4.10	3	0.02665	25	22.30	-0.009	24.97	0.10 %
MFC-A-8 (MFC-A)	S33	SIGA-MCC1	50	6	44	88.00 %	50	6	44	88.00 %	16	4.10	496	4.07	24.97	22.30	-0.181030	24.45	2.06 %
	S34	SIGA-MCC1	50	9	41	82.00 %	50	9	41	82.00 %	16	4.10	623	5.11	24.97	22.30	-0.359	23.96	4.05 %
	S35	SIGA-MCC1	50	4.50	45.50	91.00 %	50	4.50	45.50	91.00 %	16	4.10	387	3.18	24.97	22.30	-0.113	24.64	1.29 %
	S36	SIGA-MCC1	50	6	44	88.00 %	50	6	44	88.00 %	16	4.10	513	4.21	24.97	22.30	-0.215530	24.35	2.45 %
MFC-A-9 (MFC-A)	S37	SIGA-MCC1	50	2	48	96.00 %	50	2	48	96.00 %	16	4.10	428	3.51	24.98	22.30	-0.075	24.77	0.86 %
	S38	SIGA-MCC1	50	11.25	38.75	77.50 %	50	11.25	38.75	77.50 %	16	4.10	922	7.56	24.98	22.30	-0.796233	22.79	8.76 %
	S39	SIGA-MCC1	50	5.75	44.25	88.50 %	50	5.75	44.25	88.50 %	16	4.10	653	5.35	24.98	22.30	-0.317	24.09	3.58 %
MFC-A-10 (MFC-A)	S40	SIGA-MCC1	50	11	39	78.00 %	50	11	39	78.00 %	16	4.10	811	6.65	24.94	22.30	-0.516954	23.50	5.78 %
	S41	SIGA-MCC1	50	9.50	40.50	81.00 %	50	9.50	40.50	81.00 %	16	4.10	607	4.98	24.94	22.30	-0.406	23.81	4.56 %
	S42	SIGA-MCC1	50	5	45	90.00 %	50	5	45	90.00 %	16	4.10	386	3.17	24.94	22.30	-0.147	24.53	1.67 %
	S43	SIGA-MCC1	50	7.50	42.50	85.00 %	50	7.50	42.50	85.00 %	16	4.10	727	5.96	24.94	22.30	-0.363	23.92	4.09 %
	S44	SIGA-MCC1	50	9.25	40.75	81.50 %	50	9.25	40.75	81.50 %	16	4.10	728	5.97	24.94	22.30	-0.455	23.67	5.10 %
MFC-A-11 (MFC-A)	S45	SIGA-MCC1	50	7.50	42.50	85.00 %	50	7.50	42.50	85.00 %	16	4.10	671	5.50	24.97	22.30	-0.298	24.13	3.37 %
	S46	SIGA-MCC1	50	7.50	42.50	85.00 %	50	7.50	42.50	85.00 %	16	4.10	548	4.49	24.97	22.30	-0.286	24.16	3.24 %
	S47	SIGA-MCC1	50	8	42	84.00 %	50	8	42	84.00 %	16	4.10	476	3.90	24.97	22.30	-0.288	24.16	3.26 %
	S48	SIGA-MCC1	50	3.75	46.25	92.50 %	50	3.75	46.25	92.50 %	16	4.10	576	4.72	24.97	22.30	-0.185	24.45	2.11 %
MFC-A-12 (MFC-A)	S49	SIGA-MCC1	50	9.25	40.75	81.50 %	50	9.25	40.75	81.50 %	16	4.10	670	5.50	24.97	22.30	-0.432	23.76	4.85 %
	S50	SIGA-MCC1	50	7.25	42.75	85.50 %	50	7.25	42.75	85.50 %	16	4.10	619	5.07	24.97	22.30	-0.296	24.14	3.35 %
	S51	SIGA-MCC1	50	8	42	84.00 %	50	8	42	84.00 %	16	4.10	538	4.41	24.97	22.30	-0.291	24.15	3.30 %

CALCULATION METHODS:
WATTS TO AMPS CONVERSION = DEVICE WATTS / VOLTAGE
RESISTANCE FROM PREVIOUS (Ω) = WIRE RESISTANCE (Ω/FT) X 2 X DIST. FROM PREVIOUS (FT)
VOLTAGE DROP FROM PREVIOUS = RESISTANCE FROM PREVIOUS (Ω) X REMAINING CURRENT (A)
DB LOSS FROM PREVIOUS = 20 × LOG (VOLTAGE AT PREVIOUS DEVICE / VOLTAGE AT DEVICE)
MAX. DB LOSS = 20 × LOG (VOLTAGE AT LAST DEVICE / START VOLTAGE)

LUMP SUM REPORT SUMMARY

SOURCE	CIRCUIT	PART NO	MAX. CARD CURRENT (A)	TOTAL CARD CURRENT (A)	SPARE CARD CURRENT (A)	SPARE CARD CURRENT %	MAX. CIRCUIT CURRENT (A)	TOTAL CIRCUIT CURRENT (A)	SPARE CIRCUIT CURRENT (A)	SPARE CIRCUIT CURRENT %	WIRE GAUGE	WIRE RESISTANCE (Ω/KFT)	TOTAL CIRCUIT LENGTH (FT)	TOTAL CIRCUIT RESISTANCE (Ω)	STARTING CALCULATION VOLTAGE	MIN. OPERATIONAL VOLTAGE	MAX. VOLTAGE DROP	END OF LINE VOLTAGE	VOLTAGE DROP %
A10 (APS10A)	A10•N1	APS10A MAINBOARD	10	1.14	8.86	88.58 %	3	0.344	2.66	88.53 %	12	1.80	337	1.21	20.40	16	0.41755	19.98	2.05 %
	A10•N2						3	0.245	2.76	91.83 %	12	1.80	342	1.23	20.40	16	0.30202	20.10	1.48 %
	A10•N3						3	0.5530	2.45	81.57 %	12	1.80	315	1.13	20.40	16	0.627620	19.77	3.08 %
A11 (APS10A)	A11•N1	APS10A MAINBOARD	10	0.8340	9.17	91.66 %	3	0.455	2.55	84.83 %	12	1.80	465	1.67	20.40	16	0.761010	19.64	3.73 %
	A11•N2						3	0.379	2.62	87.37 %	12	1.80	213	0.765	20.40	16	0.28997	20.11	1.42 %
A12 (APS10A)	A12•N1	APS10A MAINBOARD	10	1.26	8.74	87.41 %	3	0.6380	2.36	78.73 %	12	1.80	436	1.57	20.40	16	1.00	19.40	4.91 %
	A12•N2						3	0.6210	2.38	79.30 %	12	1.80	537	1.93	20.40	16	1.20	19.20	5.88 %
A13 (APS10A)	A13•N1	APS10A MAINBOARD	10	1.53	8.47	84.67 %	3	0.6480	2.35	78.40 %	12	1.80	327	1.18	20.40	16	0.763820	19.64	3.74 %
	A13•N2						3	0.5850	2.42	80.50 %	12	1.80	475	1.71	20.40	16	1.00	19.40	4.90 %
	AUX1						3	0.3	2.70	90.00 %	12	1.80	234	0.841	20.40	16	0.25219	20.15	1.24 %
A14 (APS10A)	A14•N1	APS10A MAINBOARD	10	2.37	7.63	76.31 %	3	0.448	2.55	85.07 %	12	1.80	904	3.26	19.70	16	1.46	18.24	7.40 %
	A14•N2						3	1.32	1.68	55.97 %	12	1.80	516	1.86	19.70	16	2.46	17.24	12.47 %
	AUX1						3	0.60	2.40	80.00 %	12	1.80	318	1.14	19.70	16	0.686270	19.01	3.48 %
A15 (APS10A)	A15•N1	APS10A MAINBOARD	10	2.29	7.71	77.09 %	3	0.476	2.52	84.13 %	12	1.80	992	3.57	19.70	16	1.70	18.00	8.63 %
	A15•N2						3	1.13	1.88	62.50 %	12	1.80	439	1.58	19.70	16	1.78	17.92	9.03 %
	A15•N3						3	0.690	2.31	77.00 %	12	1.80	300	1.08	19.70	16	0.745380	18.95	3.78 %
P15 (BPS10A)	P15•N1	BPS10A MAINBOARD	10	0.8690	9.13	91.31 %	3	0.491	2.51	83.63 %	12	1.80	464	1.67	20.40	16	0.821030	19.58	4.02 %
	P15•N2						3	0.378	2.62	87.40 %	12	1.80	239	0.861	20.40	16	0.32529	20.07	1.59 %
P16 (BPS10A)	AUX1	BPS10A MAINBOARD	10	3.19	6.81	68.06 %	3	0.60	2.40	80.00 %	12	1.80	230	0.827	20.40	16	0.49628	19.90	2.43 %
	P16•N1						3	0.5260	2.47	82.47 %	12	1.80	527	1.90	20.40	16	0.99720	19.40	4.89 %
	P16•N2						3	1.03	1.97	65.77 %	12	1.80	307	1.10	20.40	16	1.13	19.27	5.56 %
	P16•N3						3	1.04	1.96	65.30 %	12	1.80	351	1.26	20.40	16	1.31	19.09	6.45 %
P17 (BPS10A)	P17•N1	BPS10A MAINBOARD	10	1.11	8.89	88.93 %	3	0.6210	2.38	79.30 %	12	1.80	469	1.69	20.40	16	1.05	19.35	5.14 %
	P17•N2						3	0.486	2.51	83.80 %	12	1.80	225	0.808	20.40	16	0.3928	20.01	1.93 %
P18 (BPS10A)	P18•N1	BPS10A MAINBOARD	10	2.06	7.94	79.38 %	3	0.441	2.56	85.30 %	12	1.80	203	0.731	20.40	16	0.32259	20.08	1.58 %
	P18•N2						3	0.6210	2.38	79.30 %	12	1.80	478	1.72	20.40	16	1.07	19.33	5.24 %
	P18•N3						3	1	2	66.67 %	12	1.80	307	1.10	20.40	16	1.10	19.30	5.41 %

CALCULATION METHODS:
TOTAL RESISTANCE (Ω) = WIRE RESISTANCE (Ω/FT) X 2 X TOTAL CIRCUIT LENGTH (FT)
TOTAL VOLTAGE DROP = TOTAL RESISTANCE (Ω) X TOTAL CIRCUIT CURRENT (A)

SPEAKER SCHEDULE SUMMARY

SOURCE	CIRCUIT	PART NO	MAX. CARD WATTS	TOTAL CARD WATTS	SPARE CARD WATTS	SPARE CARD CURRENT %	MAX. CIRCUIT WATTS	TOTAL CIRCUIT WATTS	SPARE CIRCUIT WATTS	SPARE CIRCUIT WATTS %	WIRE GAUGE	WIRE RESISTANCE (Ω/KFT)	TOTAL CIRCUIT LENGTH (FT)	TOTAL CIRCUIT RESISTANCE (Ω)	STARTING CALCULATION VOLTAGE	MIN. OPERATIONAL VOLTAGE	MAX. DB LOSS	END OF LINE VOLTAGE	VOLTAGE DROP %
A10 (APS10A)	S1	SIGA-AA30	30	17.50	12.50	41.67 %	30	17.50	12.50	41.67 %	16	4.10	3	0.0246	24.95	22.30	-0.006	24.93	0.07 %
A11 (APS10A)	S1	SIGA-AA30	30	19.50	10.50	35.00 %	30	19.50	10.50	35.00 %	16	4.10	3	0.0246	22.36	22.30	-0.007	22.35	0.09 %
A12 (APS10A)	S1	SIGA-AA30	30	16	14	46.67 %	30	16	14	46.67 %	16	4.10	3	0.0246	24.95	22.30	-0.005	24.94	0.06 %
A13 (APS10A)	S1	SIGA-AA30	30	17.50	12.50	41.67 %	30	17.50	12.50	41.67 %	16	4.10	3	0.0246	22.72	22.30	-0.007	22.70	0.08 %
A14 (APS10A)	S1	SIGA-AA50	50	19	31	62.00 %	50	19	31	62.00 %	16	4.10	4	0.0287	24.97	22.30	-0.008	24.95	0.09 %
A15 (APS10A)	S1	SIGA-AA50	50	23.50	26.50	53.00 %	50	23.50	26.50	53.00 %	16	4.10	3	0.0205	21.67	22.30	-0.008	21.65	0.09 %
MFC-A 13 (MFC-A)	S52	SIGA-MCC1	50	6.50	43.50	87.00 %	50	6.50	43.50	87.00 %	16	4.10	559	4.58	24.98	22.30	-0.222	24.35	2.53 %
	S53	SIGA-MCC1	50	4	46	92.00 %	50	4	46	92.00 %	16	4.10	267	2.19	24.98	22.30	-0.077	24.76	0.88 %
	S54	SIGA-MCC1	50	7	43	86.00 %	50	7	43	86.00 %	16	4.10	458	3.75	24.98	22.30	-0.237	24.31	2.69 %
MFC-A 14 (MFC-A)	S55	SIGA-MCC1	50	6.50	43.50	87.00 %	50	6.50	43.50	87.00 %	16	4.10	492	4.03	24.98	22.30	-0.204	24.40	2.32 %
	S56	SIGA-MCC1	50	3.50	46.50	93.00 %	50	3.50	46.50	93.00 %	16	4.10	329	2.70	24.98	22.30	-0.106330	24.68	1.22 %
	S57	SIGA-MCC1	50	9.50	40.50	81.00 %	50	9.50	40.50	81.00 %	16	4.10	805	6.60	24.98	22.30	-0.441120	23.74	4.95 %
MFC-A 15 (MFC-A)	S58	SIGA-MCC1	50	6.75	43.25	86.50 %	50	6.75	43.25	86.50 %	16	4.10	560	4.59	24.98	22.30	-0.236	24.31	2.68 %
	S59	SIGA-MCC1	50	6.75	43.25	86.50 %	50	6.75	43.25	86.50 %	16	4.10	548	4.50	24.98	22.30	-0.230	24.33	2.61 %
	S60	SIGA-MCC1	50	2.50	47.50	95.00 %	50	2.50	47.50	95.00 %	16	4.10	379	3.11	24.98	22.30	-0.069320	24.79	0.79 %
MFC-A 16 (MFC-A)	S61	SIGA-MCC1	50	6.75	43.25	86.50 %	50	6.75	43.25	86.50 %	16	4.10	509	4.18	24.98	22.30	-0.215	24.37	2.45 %
	S62	SIGA-MCC1	50	6.50	43.50	87.00 %	50	6.50	43.50	87.00 %	16	4.10	473	3.88	24.98	22.30	-0.187	24.45	2.13 %
	S63	SIGA-MCC1	50	4.25	45.75	91.50 %	50	4.25	45.75	91.50 %	16	4.10	540	4.43	24.98	22.30	-0.172	24.49	1.96 %
MFC-A 17 (MFC-A)	S64	SIGA-MCC1	50	7	43	86.00 %	50	7	43	86.00 %	16	4.10	469	3.85	24.98	22.30	-0.236	24.31	2.69 %
	S65	SIGA-MCC1	50	6.50	43.50	87.00 %	50	6.50	43.50	87.00 %	16	4.10	457	3.74	24.98	22.30	-0.223	24.35	2.53 %
	S66	SIGA-MCC1	50	6	44	88.00 %	50	6	44	88.00 %	16	4.10	477	3.91	24.98	22.30	-0.218	24.36	2.47 %
MFC-A 18 (MFC-A)	S67	SIGA-MCC1	50	9	41	82.00 %	50	9	41	82.00 %	16	4.10	649	5.32	24.98	22.30	-0.419	23.80	4.71 %
	S68	SIGA-MCC1	50	6	44	88.00 %	50	6	44	88.00 %	16	4.10	381	3.12	24.98	22.30	-0.175	24.48	2.00 %
	S69	SIGA-MCC1	50	4	46	92.00 %	50	4	46	92.00 %	16	4.10	389	3.19	24.98	22.30	-0.140	24.58	1.59 %
	S70	SIGA-MCC1	50	4.50	45.50	91.00 %	50	4.50	45.50	91.00 %	16	4.10	310	2.54	24.98	22.30	-0.139	24.58	1.59 %

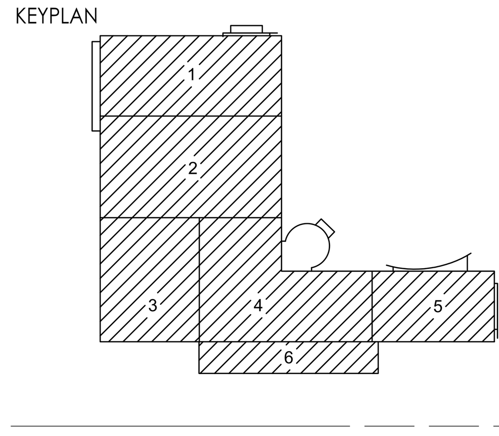
CALCULATION METHODS:
WATTS TO AMPS CONVERSION = DEVICE WATTS / VOLTAGE
RESISTANCE FROM PREVIOUS (Ω) = WIRE RESISTANCE (Ω/FT) X 2 X DIST. FROM PREVIOUS (FT)
VOLTAGE DROP FROM PREVIOUS = RESISTANCE FROM PREVIOUS (Ω) X REMAINING CURRENT (A)
DB LOSS FROM PREVIOUS = 20 × LOG (VOLTAGE AT PREVIOUS DEVICE / VOLTAGE AT DEVICE)
MAX. DB LOSS = 20 × LOG (VOLTAGE AT LAST DEVICE / START VOLTAGE)

ORIGINAL SHEET - ARCH E1

Consultant

Architect / Engineer of Record

KEYPLAN



Revision — By — Appd — YYYY.MM.DD

INCREMENT 4 SEG 3B SUBMISSION #1 — 2025.03.04

Issued — By — Appd — YYYY.MM.DD

Dwn. — Dsgn. — Chkd. — YYYY.MM.DD

Agency Approval
OSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

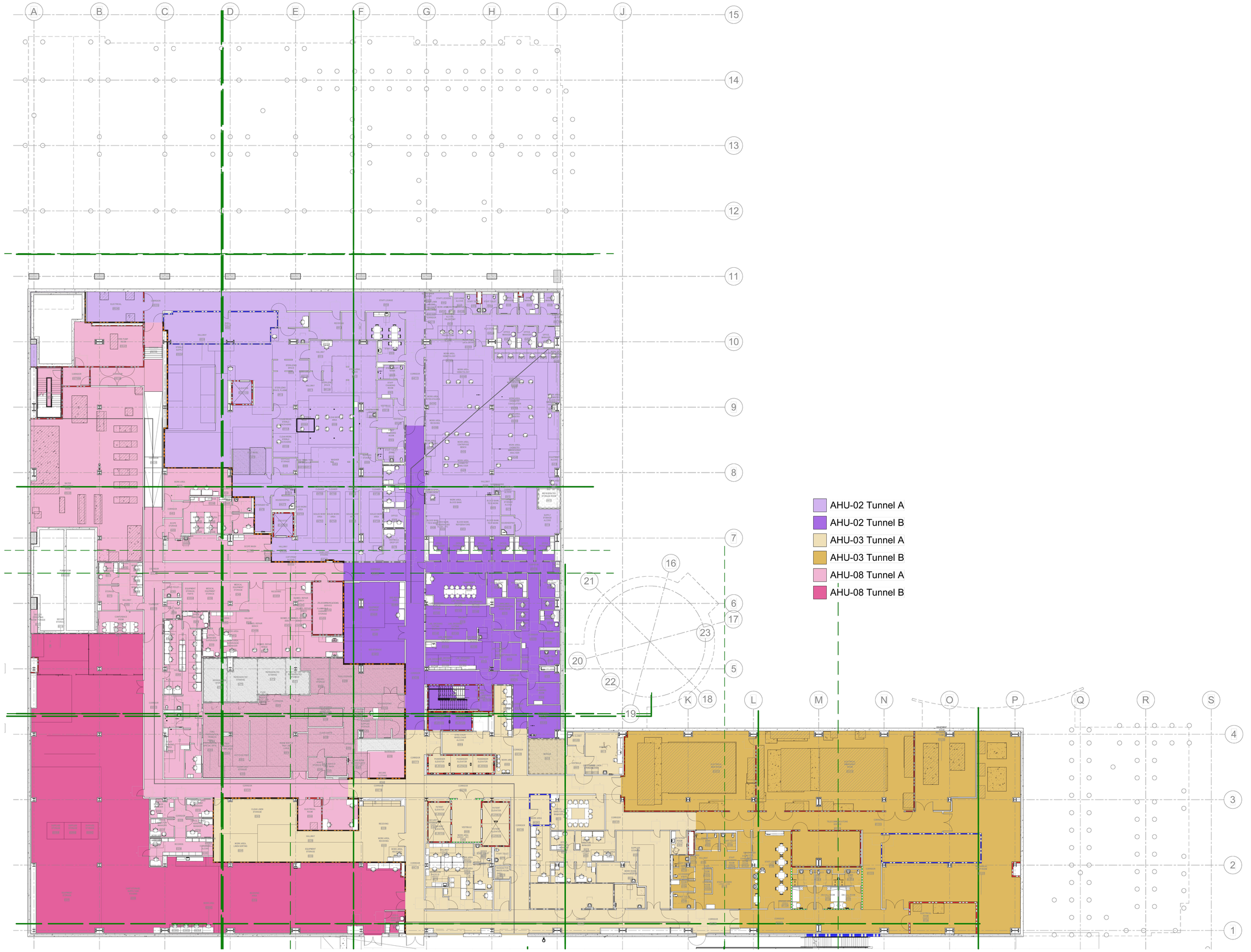
Facility

Project

Title
CALCULATIONS SHEET #9

Building ID: — Floor Lev:
Scale NTS — KP Proj. No.
Drwn By LW — Stantec No.
Chckd By VL

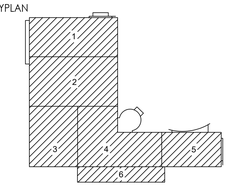
Sheet
H-FA066



Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04
Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Agency Approval

OSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

Project

Title

AHU ZONING PLAN #1

Building ID: Floor Lev:

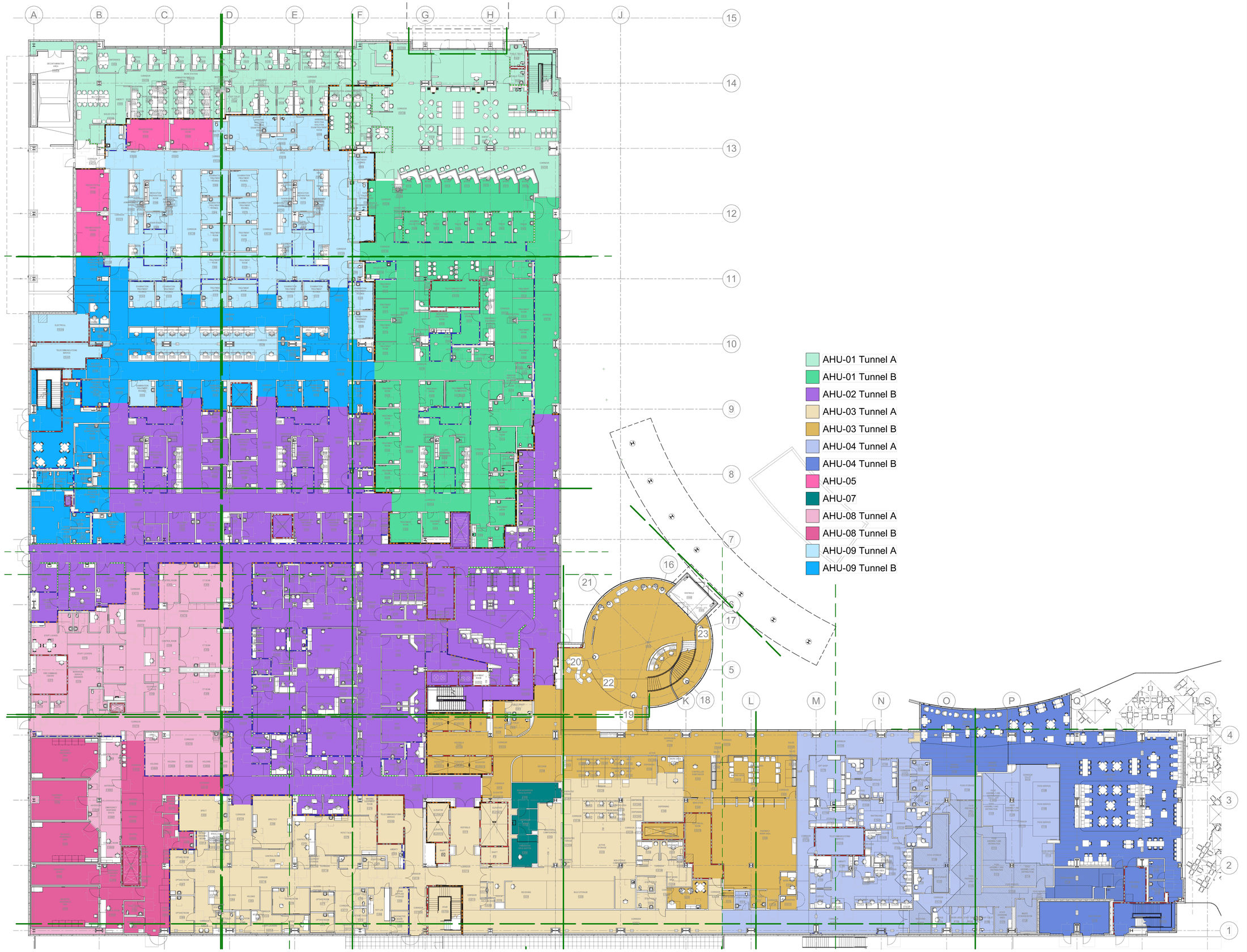
Scale NTS
Drwn By LW
Chckd By VL

KP Proj. No.
Stantec No.

Sheet

H-FA067

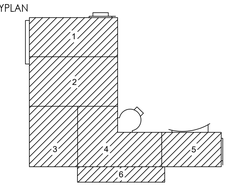
ORIGINAL SHEET - ARCH E1



Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Agency Approval

OSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

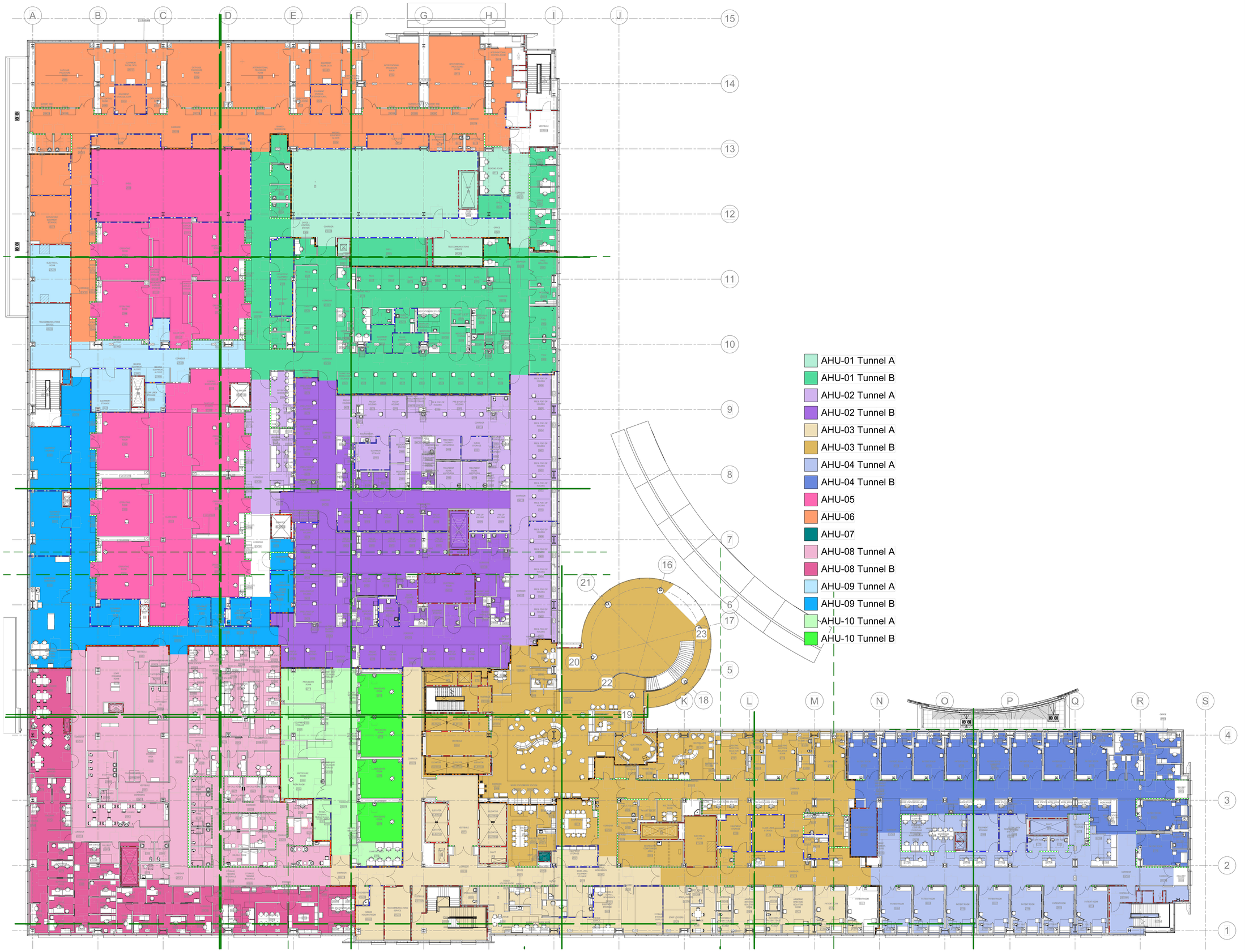
Project

Title

AHU ZONING PLAN #2

Building ID:	Floor Lev:
Scale NTS	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet **H-FA068**

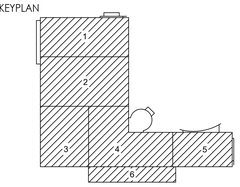
ORIGINAL SHEET - ARCH E1



Consultant

Architect / Engineer of Record

KEYPLAN



Revision

	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued

	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd.

Agency Approval

OSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

Project

Title

AHU ZONING PLAN #3

Building ID: Floor Lev:

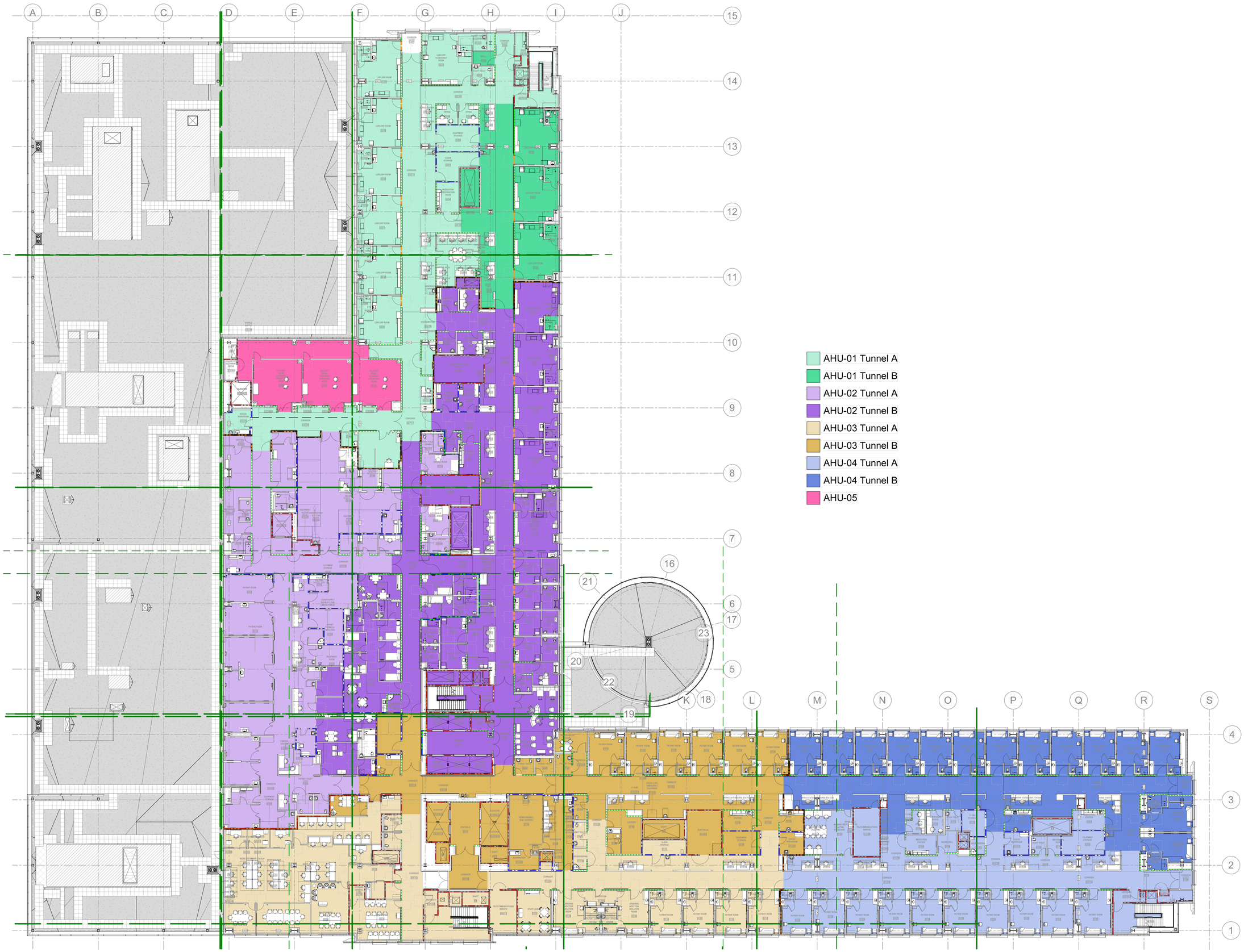
Scale NTS
Drwn By LW
Chckd By VL

KP Proj. No.
Stantec No.

Sheet

H-FA069

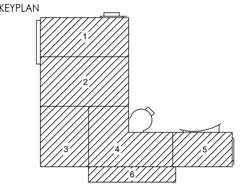
ORIGINAL SHEET - ARCH E1



Consultant

Architect / Engineer of Record

KEYPLAN



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INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued

	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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OSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

Project

Title

AHU ZONING PLAN #4

Building ID:	Floor Lev:
Scale NTS	KP Proj. No.
Dwn By LW	Stantec No.
Chckd By VL	

Sheet

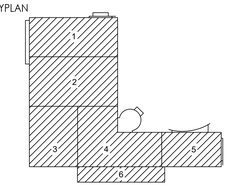
H-FA070

ORIGINAL SHEET - ARCH E1

Consultant

Architect / Engineer of Record

KEYPLAN



Revision

	By	Appd	YYYY.MM.DD

INCREMENT 4 SEG 3B SUBMISSION #1 2025.03.04

Issued

	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd.

Agency Approval

OSHPD No. I230010-43-00

INCREMENT 4 - I230010-43-04

Facility

Project

Title

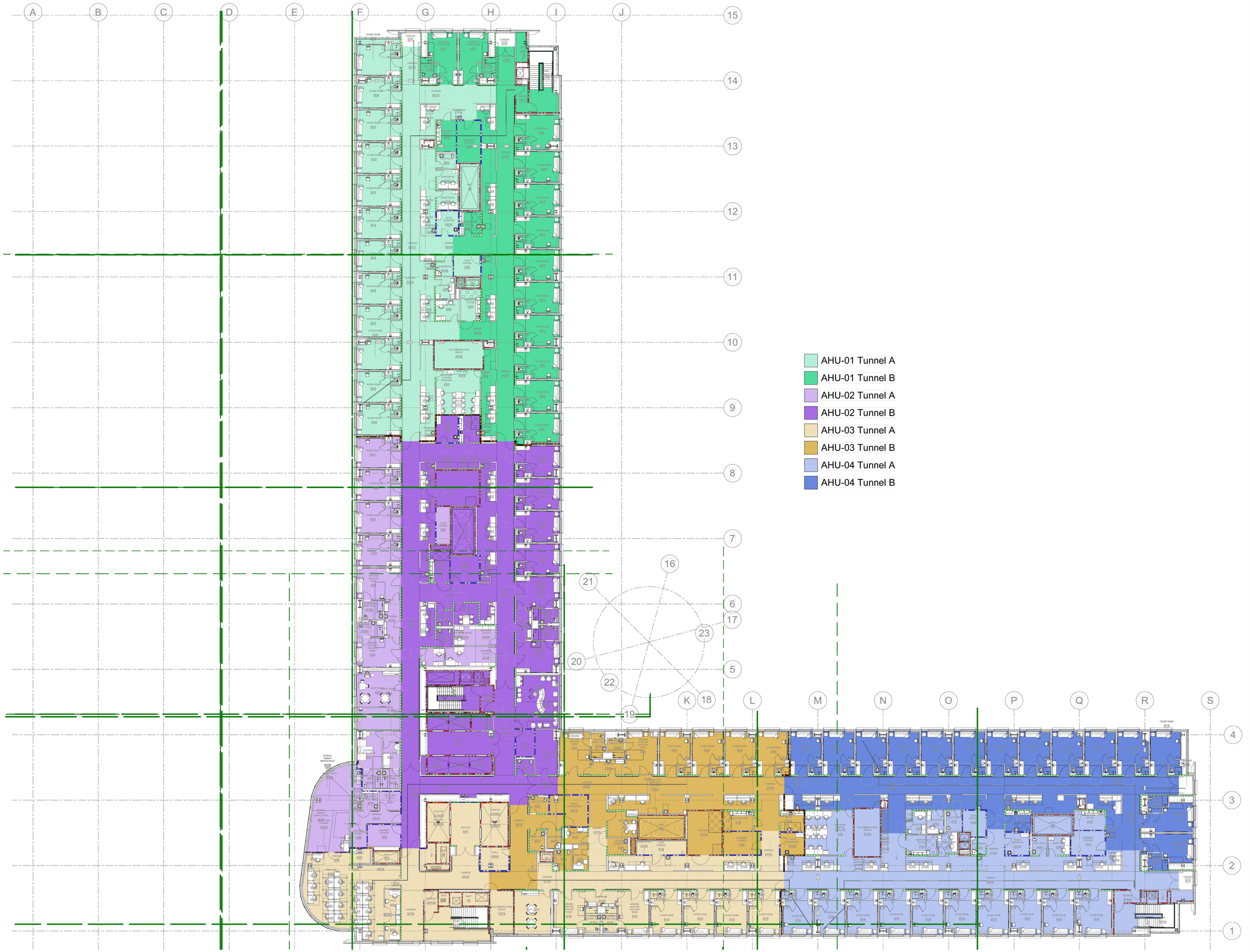
AHU ZONING PLAN #5

Building ID:	Floor Lev:
Scale NTS	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	

Sheet

H-FA071

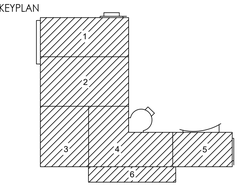
ORIGINAL SHEET - ARCH E1



Consultant

Architect / Engineer of Record

KEYPLAN



Revision

	By	Appd	YYYY.MM.DD

INCREMENT 4 SEG 3B SUBMISSION #1 2025.03.04

Issued

	By	Appd	YYYY.MM.DD

Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Agency Approval

OSHPD No. I230010-43-00

INCREMENT 4 - I230010-43-04

Facility

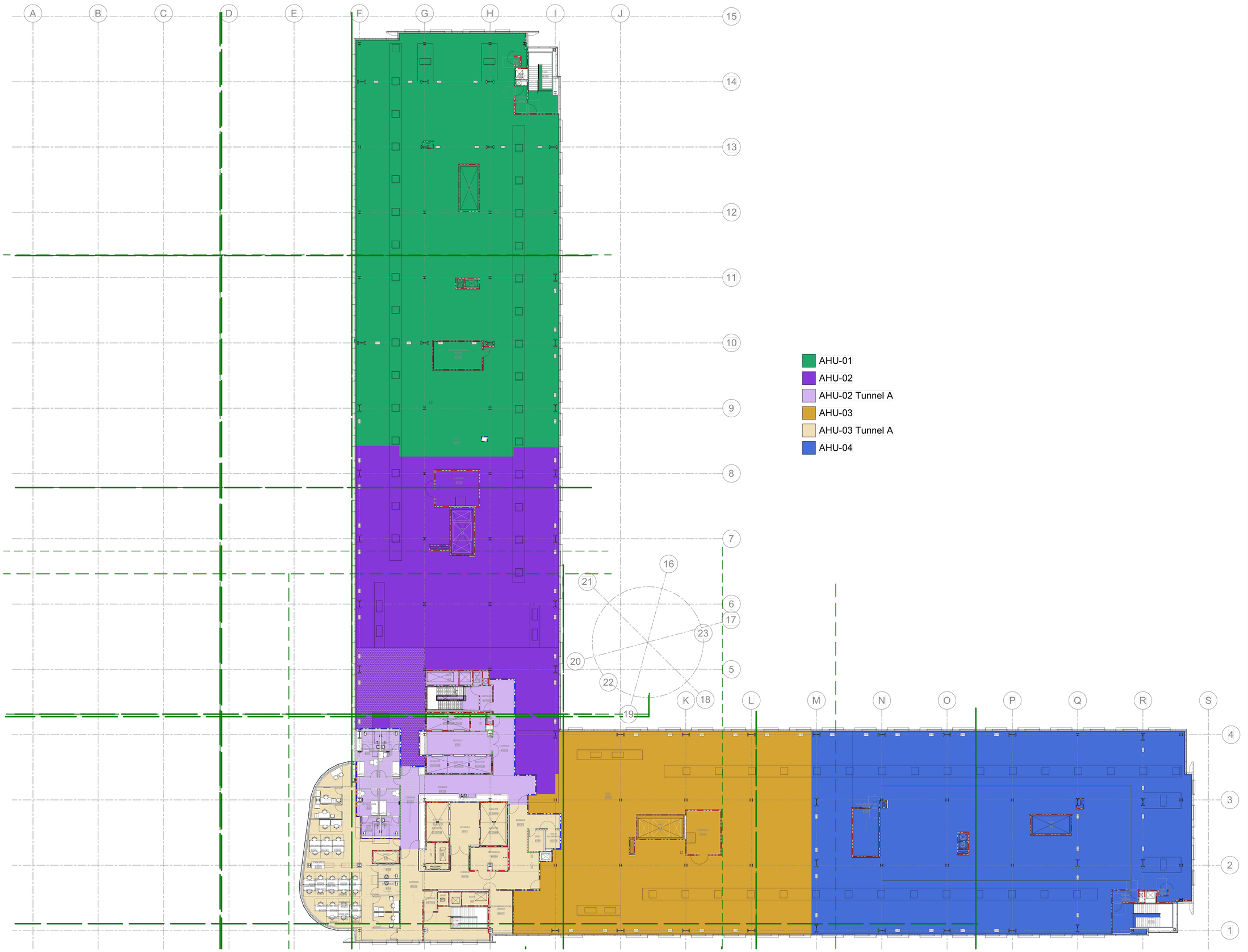
Project

Title

AHU ZONING PLAN #6

Building ID:		Floor Lev:	
Scale	NTS	KP Proj. No.	
Drwn By	LW	Stantec No.	
Chckd By	VL	Sheet	**H-FA072**

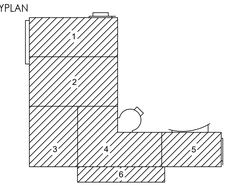
ORIGINAL SHEET - ARCH E1



Consultant

Architect / Engineer of Record

KEYPLAN



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INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04
Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Agency Approval

OSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

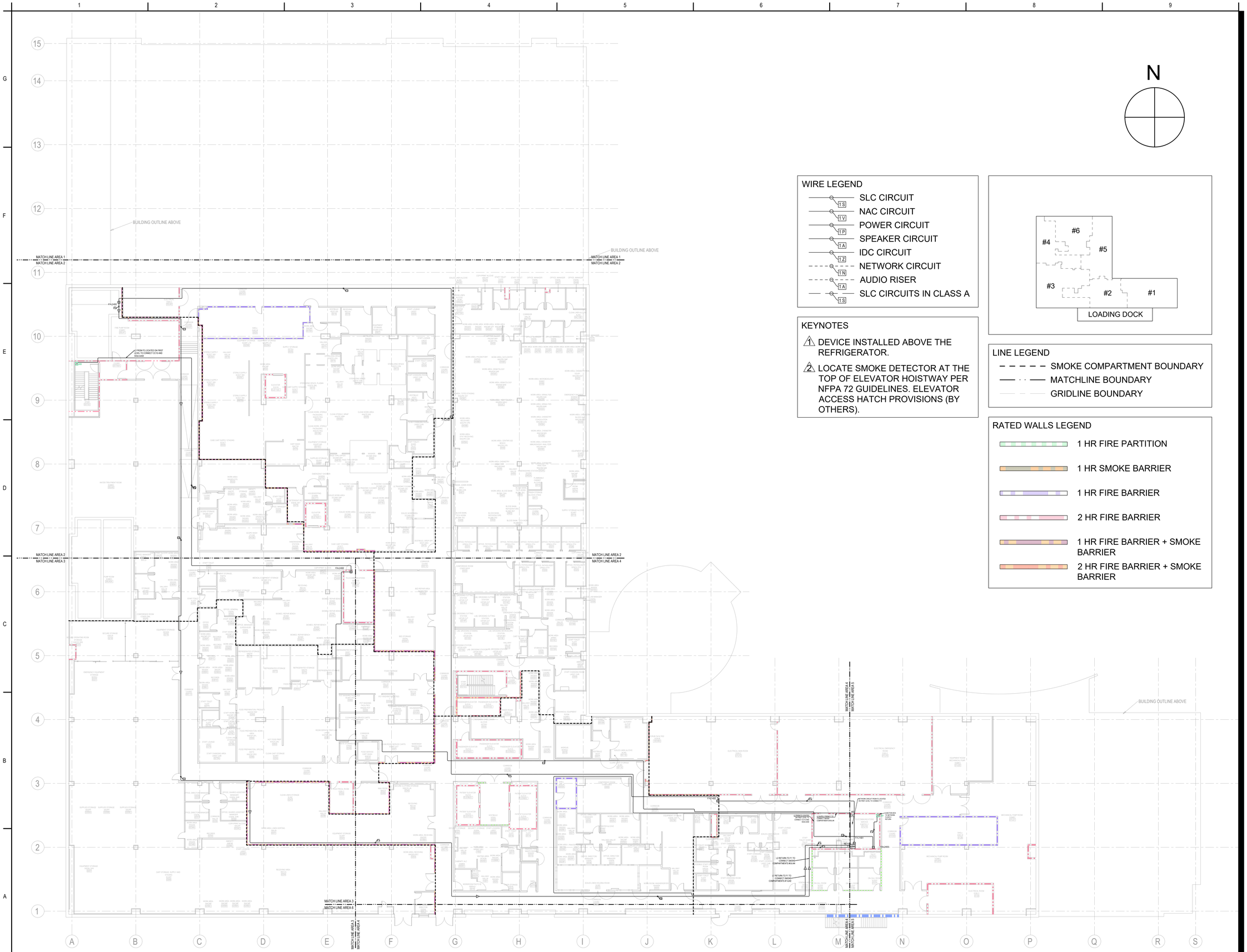
Project

Title

AHU ZONING PLAN #7

Building ID		Floor Lev.	
Scale	NTS	KP Proj. No.	
Drwn By	LW	Stantec No.	
Chckd By	VL	Sheet	**H-FA073**

ORIGINAL SHEET - ARCH E1



N

WIRE LEGEND

- SLC CIRCUIT (1 S)
- NAC CIRCUIT (1 V)
- POWER CIRCUIT (1 P)
- SPEAKER CIRCUIT (1 A)
- IDC CIRCUIT (1 Z)
- NETWORK CIRCUIT (1 N)
- AUDIO RISER (1 A)
- SLC CIRCUITS IN CLASS A (1 S)

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

#1 #2 #3 #4 #5 #6 LOADING DOCK

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

LOWER LEVEL ISOLATORS LAYOUT

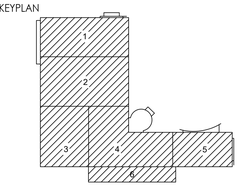
SCALE 1/16" = 1'

Consultant

Architect / Engineer of Record

PRELIMINARY NOT FOR CONSTRUCTION

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd.

Agency Approval

OSHPD No. 123001S-43-00
INCREMENT 4 - 123001D-43-04

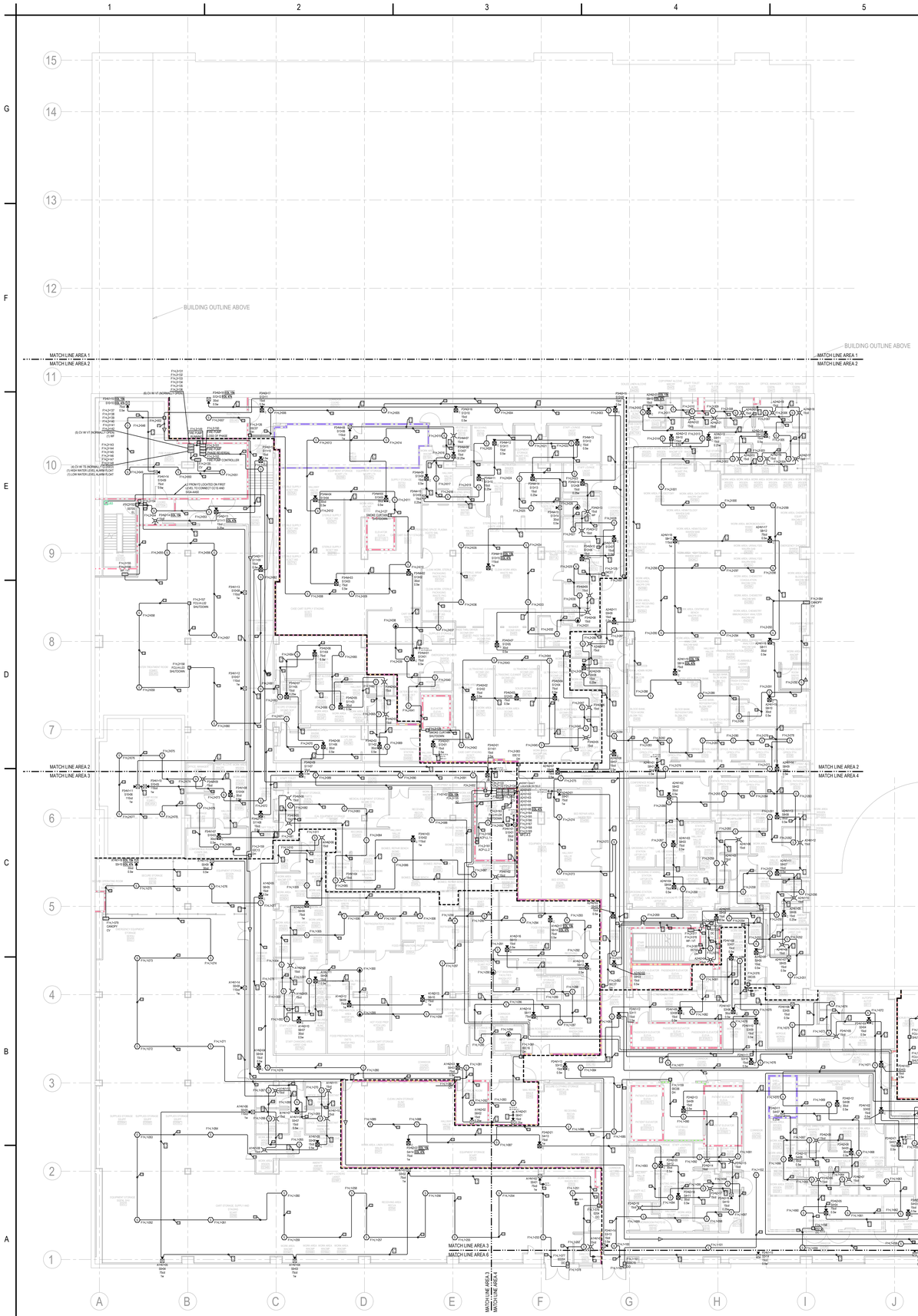
Facility

Project

Title
LOWER LEVEL ISOLATORS LAYOUT

Building ID:	Floor Lev:
Scale 1/16 = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet **H-FA100.A**

ORIGINAL SHEET - ARCH E1



LOWER LEVEL GENERAL DEVICES LAYOUT

SCALE 1/16" = 1'

N

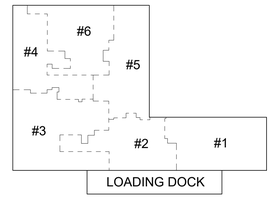
WIRE LEGEND

- 1 S — SLC CIRCUIT
- 1 V — NAC CIRCUIT
- 1 P — POWER CIRCUIT
- 1 A — SPEAKER CIRCUIT
- 1 Z — IDC CIRCUIT
- 1 N — NETWORK CIRCUIT
- 1 A — AUDIO RISER
- 1 S — SLC CIRCUITS IN CLASS A

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

SMOKE COMPARTMENT KEYPLAN



LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

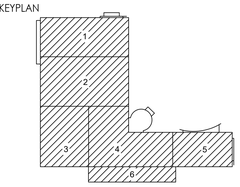
- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

Consultant

Architect / Engineer of Record

PRELIMINARY NOT FOR CONSTRUCTION

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd.

Agency Approval

OSHPD No. 123010-43-00
INCREMENT 4 - 123010-43-04

Facility

Project

Title

LOWER LEVEL GENERAL DEVICES LAYOUT

Building ID	Floor Lev:
Scale 1/16 = 1'-0"	KP Proj. No.
Dwn By LW	Stantec No.
Chckd By VL	Sheet **H-FA100.B**

ORIGINAL SHEET - ARCH E1

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

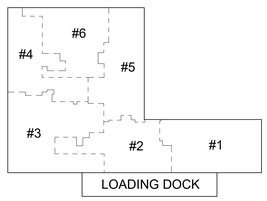
MATCH LINE AREA 1
MATCH LINE AREA 2

MATCH LINE AREA 2
MATCH LINE AREA 3

MATCH LINE AREA 1
MATCH LINE AREA 2

MATCH LINE AREA 2
MATCH LINE AREA 4

SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- SLC CIRCUIT
- NAC CIRCUIT
- POWER CIRCUIT
- SPEAKER CIRCUIT
- IDC CIRCUIT
- NETWORK CIRCUIT
- AUDIO RISER
- SLC CIRCUITS IN CLASS A

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LOWER LEVEL - AREA 2

SCALE 1/8" = 1'

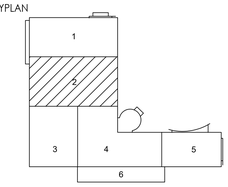
N

Consultant

Architect / Engineer of Record

PRELIMINARY NOT FOR CONSTRUCTION

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04
Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Agency Approval

OSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

Project

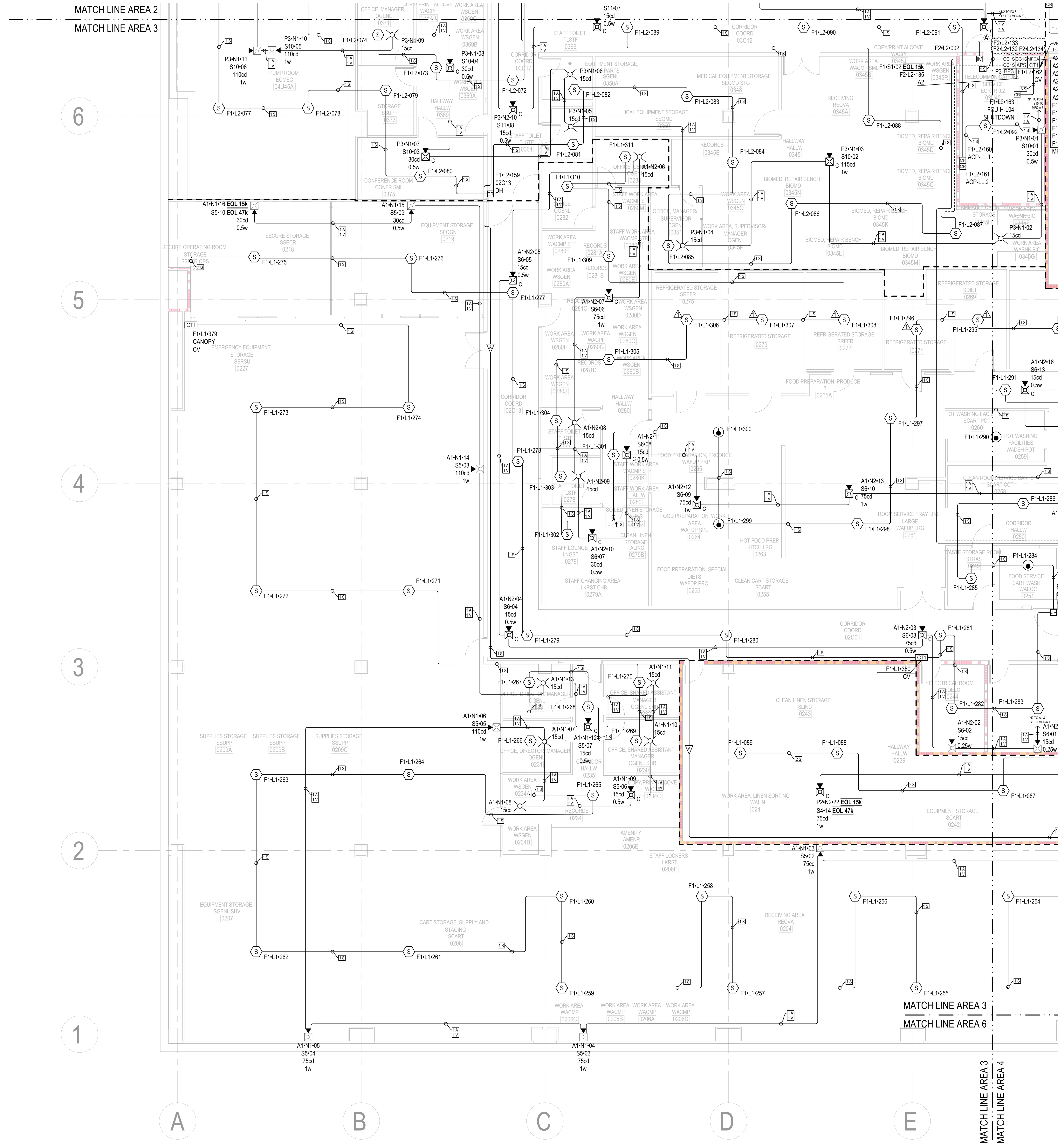
Title

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LOWER LEVEL - AREA 2

Building ID:	Floor Lev:
Scale 1/8" = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet **H-FA200.2.B**

ORIGINAL SHEET - ARCH E1

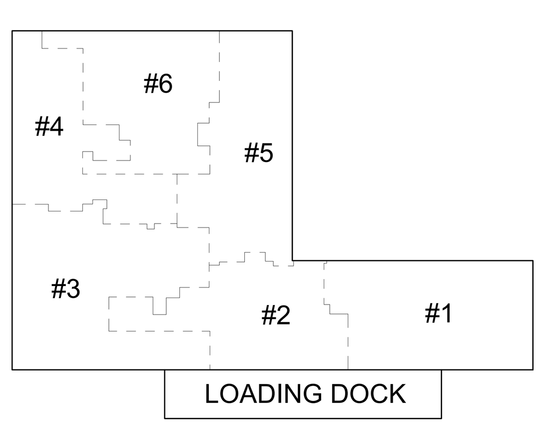
1 2 3 4 5 6 7 8 9



KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

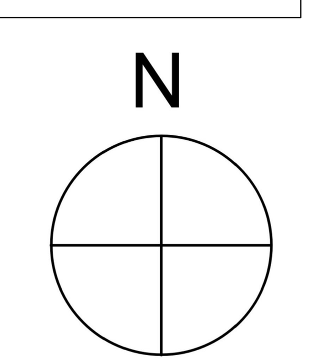
1S	SLC CIRCUIT
1V	NAC CIRCUIT
1P	POWER CIRCUIT
1A	SPEAKER CIRCUIT
1Z	IDC CIRCUIT
1N	NETWORK CIRCUIT
1A	AUDIO RISER
1S	SLC CIRCUITS IN CLASS A

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LOWER LEVEL - AREA 3

SCALE 1/8" = 1'

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY



RATED WALLS LEGEND

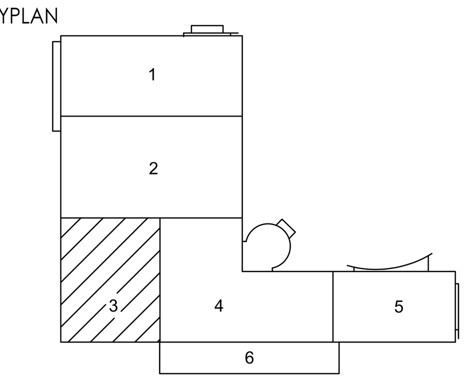
- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

Consultant

Architect / Engineer of Record

PRELIMINARY NOT FOR CONSTRUCTION

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04
Issued	By	Appd	YYYY.MM.DD

Dwn. Dsgn. Chkd. YYYY.MM.DD

Agency Approval
OSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

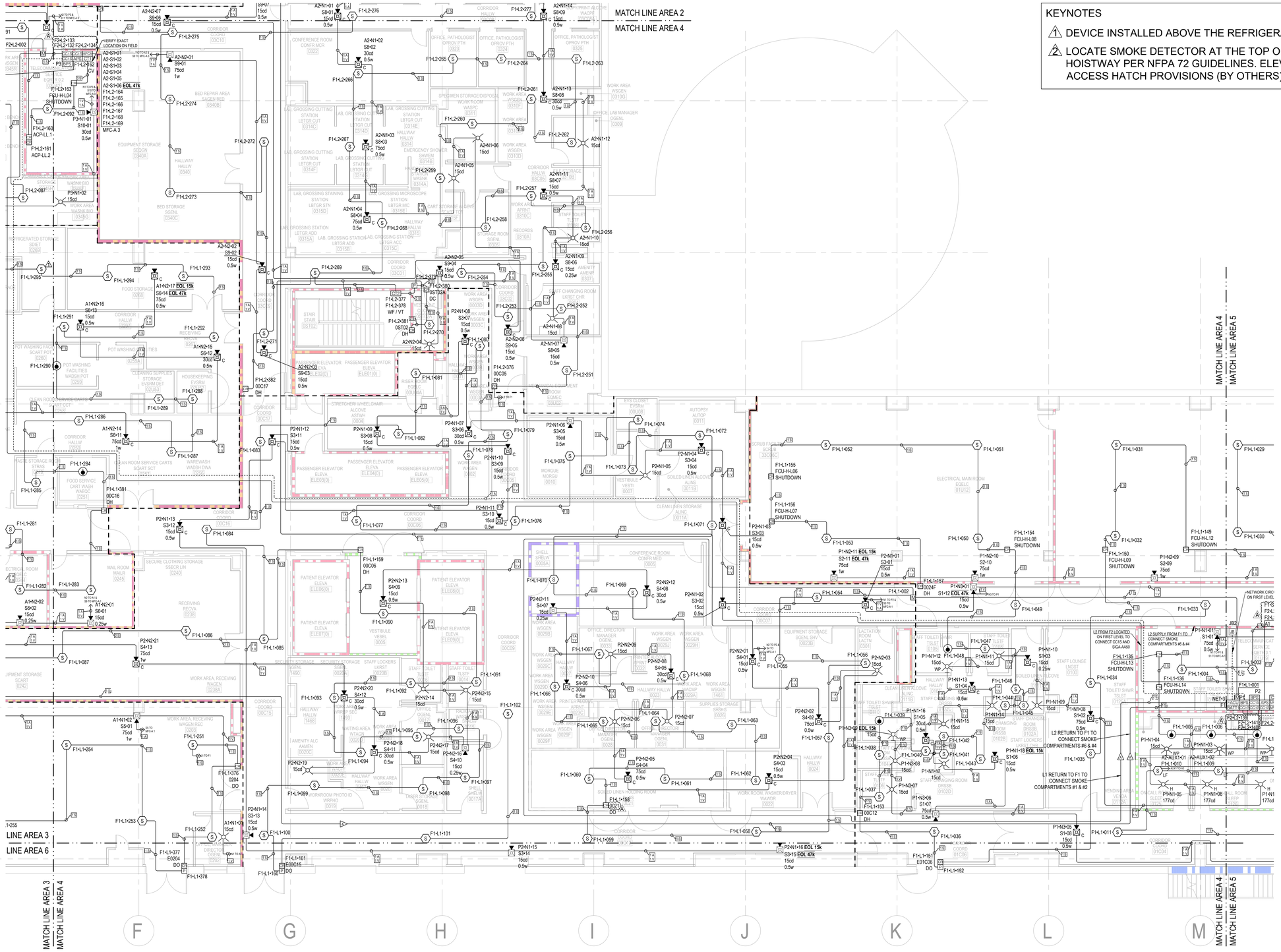
Facility

Project

Title
PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LOWER LEVEL - AREA 3

Building ID: Floor Lev:
Scale 1/8 = 1'-0"
Drwn By LW
Chckd By VL
KP Proj. No.
Stantec No.
Sheet
H-FA200.3.B

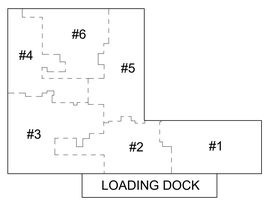
ORIGINAL SHEET - ARCH E1



KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- SLC CIRCUIT
- NAC CIRCUIT
- POWER CIRCUIT
- SPEAKER CIRCUIT
- IDC CIRCUIT
- NETWORK CIRCUIT
- AUDIO RISER
- SLC CIRCUITS IN CLASS A

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LOWER LEVEL - AREA 4

SCALE 1/8" = 1'

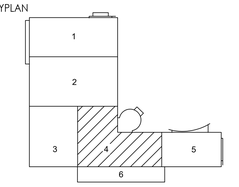
N

Consultant

Architect / Engineer of Record

PRELIMINARY NOT FOR CONSTRUCTION

KEYPLAN



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INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

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	Dwn.	Dsgn.	Chkd.

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INCREMENT 4 - I230010-43-04

Facility

Project

Title

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LOWER LEVEL - AREA 4

Building ID.	Floor Lev.
Scale 1/8" = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	

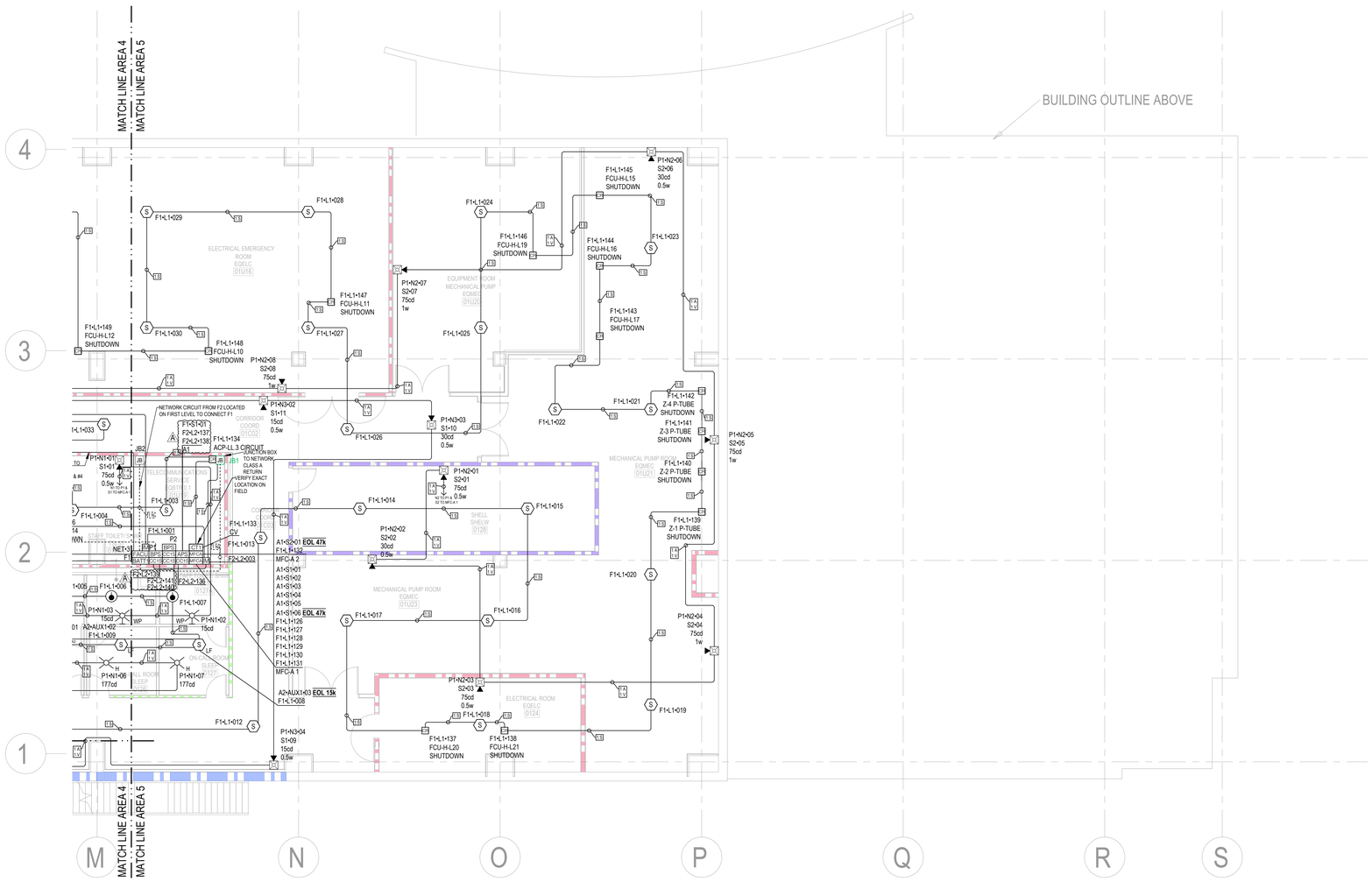
Sheet

H-FA200.4.B

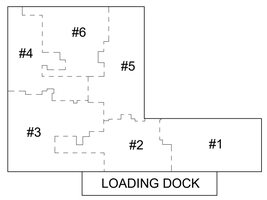
ORIGINAL SHEET - ARCH E1

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).



SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- SLC CIRCUIT (1 S)
- NAC CIRCUIT (1 V)
- POWER CIRCUIT (1 P)
- SPEAKER CIRCUIT (1 A)
- IDC CIRCUIT (1 Z)
- NETWORK CIRCUIT (1 N)
- AUDIO RISER (1 A)
- SLC CIRCUITS IN CLASS A (1 S)

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LOWER LEVEL - AREA 5

SCALE 1/8" = 1'

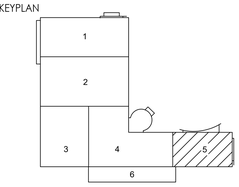
N

Consultant

Architect / Engineer of Record

PRELIMINARY NOT FOR CONSTRUCTION

KEYPLAN



Revision

	By	Appd	YYYY.MM.DD

INCREMENT 4 SEG 3B SUBMISSION #1 — 2025.03.04

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	By	Appd	YYYY.MM.DD
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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OSHPD No. 123010-43-00
INCREMENT 4 - 123010-43-04

Facility

Project

Title

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LOWER LEVEL - AREA 5

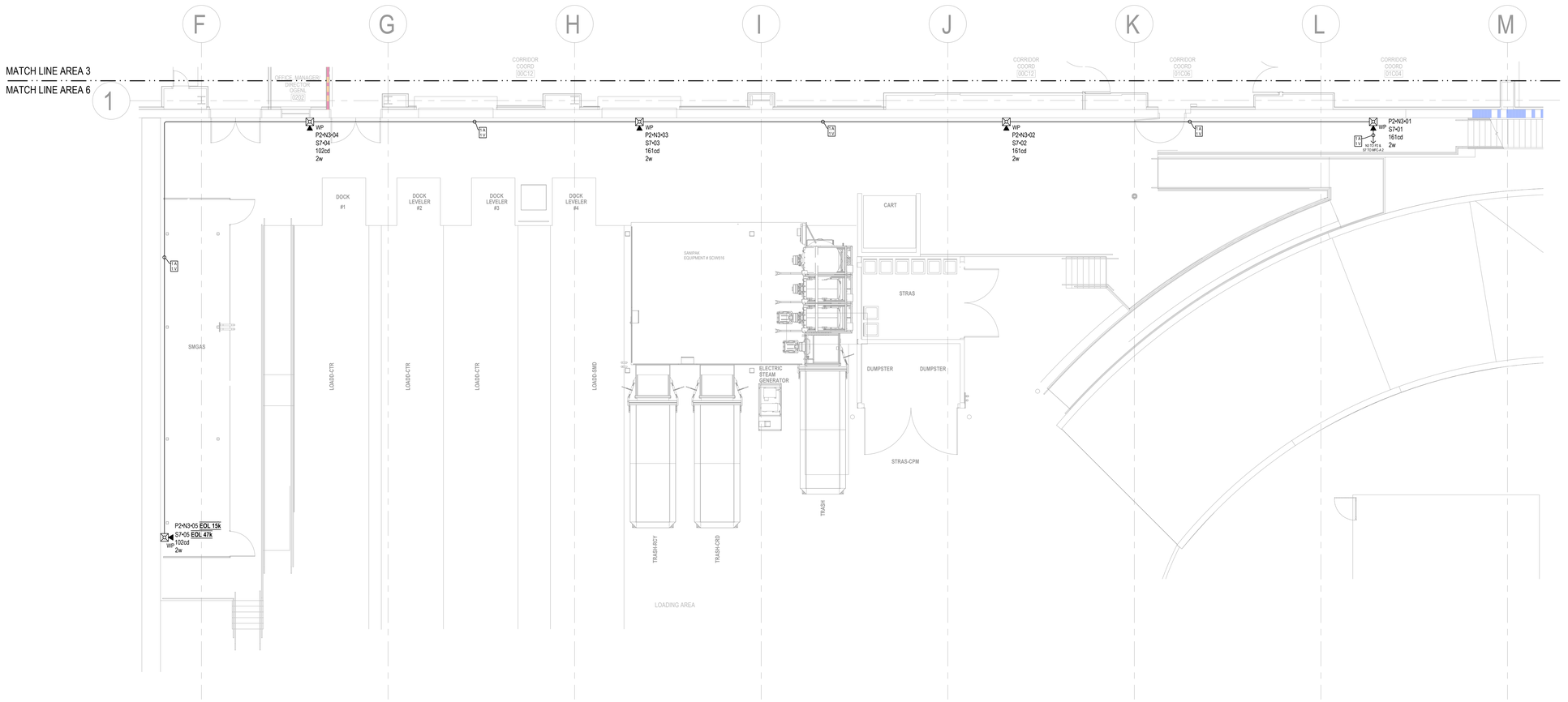
Building ID:	Floor Lev:
Scale 1/8" = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA200.5.B

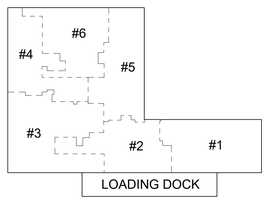
ORIGINAL SHEET - ARCH E1

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).



SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- SLC CIRCUIT
- NAC CIRCUIT
- POWER CIRCUIT
- SPEAKER CIRCUIT
- IDC CIRCUIT
- NETWORK CIRCUIT
- AUDIO RISER
- SLC CIRCUITS IN CLASS A

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LOWER LEVEL - AREA 6

SCALE 1/8" = 1'

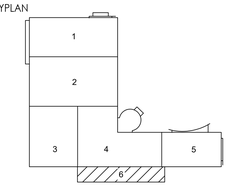
N

Consultant

Architect / Engineer of Record

PRELIMINARY NOT FOR CONSTRUCTION

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

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Agency Approval

OSHPD No. I2300I0-43-00
INCREMENT 4 - I2300I0-43-04

Facility

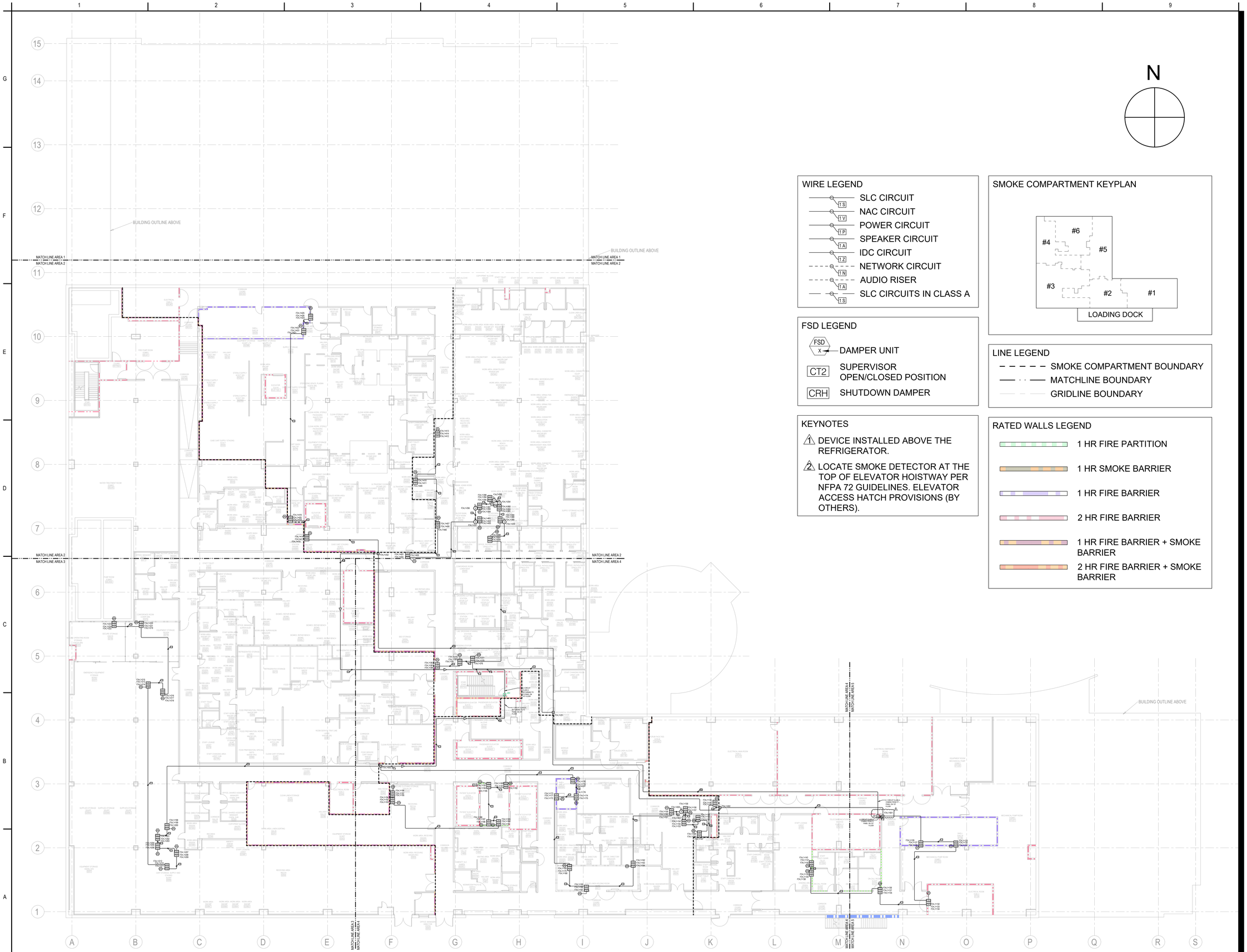
Project

Title

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LOWER LEVEL - AREA 6

Building ID:		Floor Lev.:	
Scale	1/8" = 1'-0"	KP Proj. No.	
Dwn By	LW	Stantec No.	
Chckd By	VL	Sheet	H-FA200.6.B

ORIGINAL SHEET - ARCH E1



N

WIRE LEGEND

- SLC CIRCUIT
- NAC CIRCUIT
- POWER CIRCUIT
- SPEAKER CIRCUIT
- IDC CIRCUIT
- NETWORK CIRCUIT
- AUDIO RISER
- SLC CIRCUITS IN CLASS A

FSD LEGEND

- DAMPER UNIT
- SUPERVISOR OPEN/CLOSED POSITION
- SHUTDOWN DAMPER

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

SMOKE COMPARTMENT KEYPLAN

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

LOWER LEVEL FSDs DEVICES LAYOUT

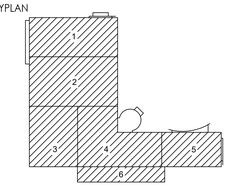
SCALE 1/16" = 1'

Consultant

Architect / Engineer of Record

PRELIMINARY NOT FOR CONSTRUCTION

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued

	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Agency Approval

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INCREMENT 4 - I230010-43-04

Facility

Project

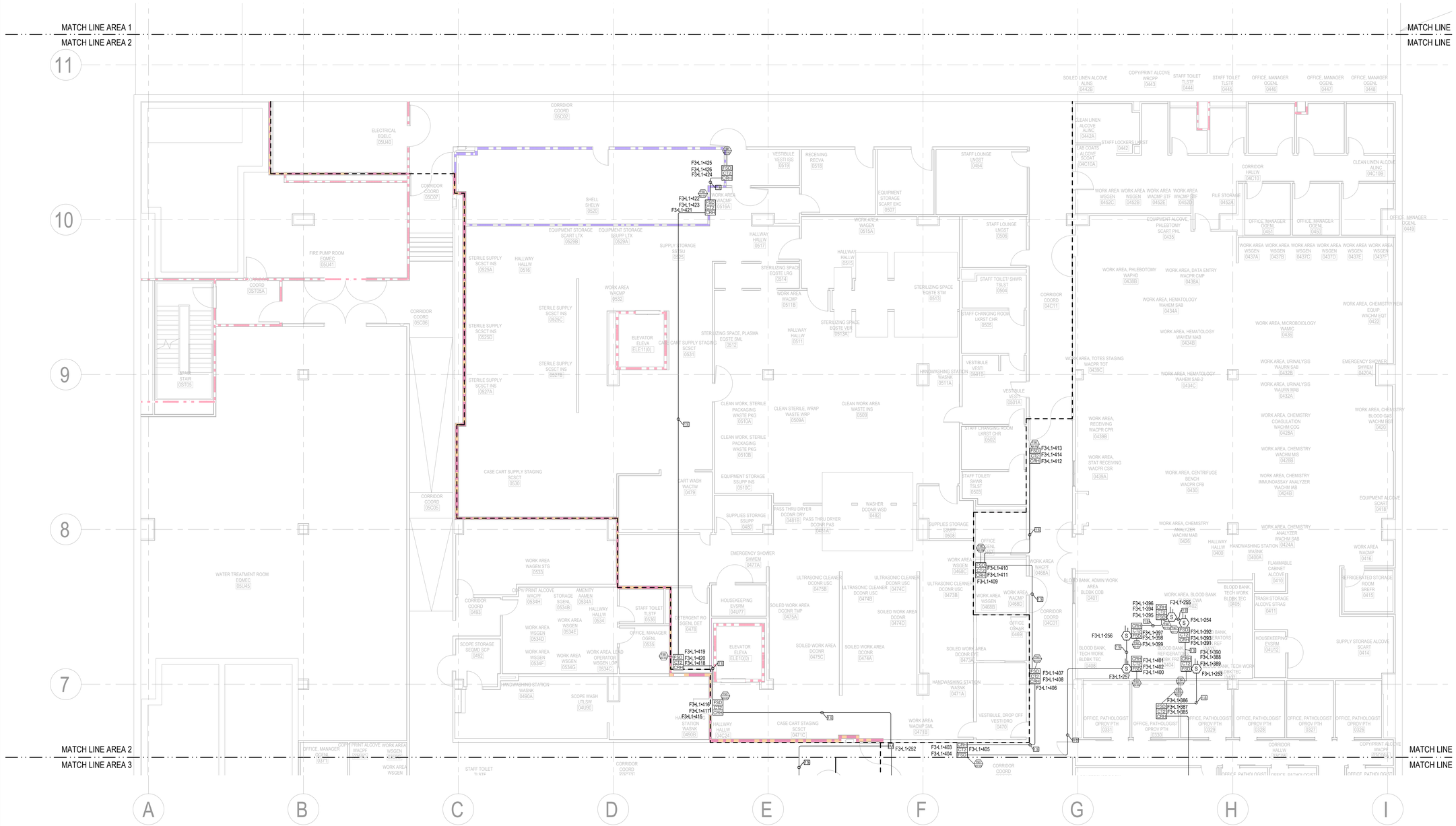
Title
LOWER LEVEL FSDs DEVICES LAYOUT

Building ID:		Floor Lev:	
Scale	1/16 = 1'-0"	KP Proj. No.	
Drwn By	LW	Stantec No.	
Chckd By	VL	Sheet	**H-FA100.C**

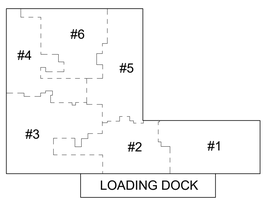
ORIGINAL SHEET - ARCH E1

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).



SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- SLC CIRCUIT (1 S)
- NAC CIRCUIT (1 V)
- POWER CIRCUIT (1 P)
- SPEAKER CIRCUIT (1 A)
- IDC CIRCUIT (1 Z)
- NETWORK CIRCUIT (1 N)
- AUDIO RISER (1 A)
- SLC CIRCUITS IN CLASS A (1 S)

PARTIAL FIRE ALARM FSDs DEVICES PLAN - LOWER LEVEL - AREA 2

SCALE 1/8" = 1'

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

N

FSD LEGEND

- FSD / X — DAMPER UNIT
- CT2 — SUPERVISOR OPEN/ CLOSED POSITION
- CRH — SHUTDOWN DAMPER

RATED WALLS LEGEND

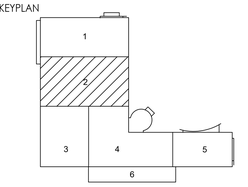
- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

Consultant

Architect / Engineer of Record

PRELIMINARY NOT FOR CONSTRUCTION

KEYPLAN



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Facility

Project

Title

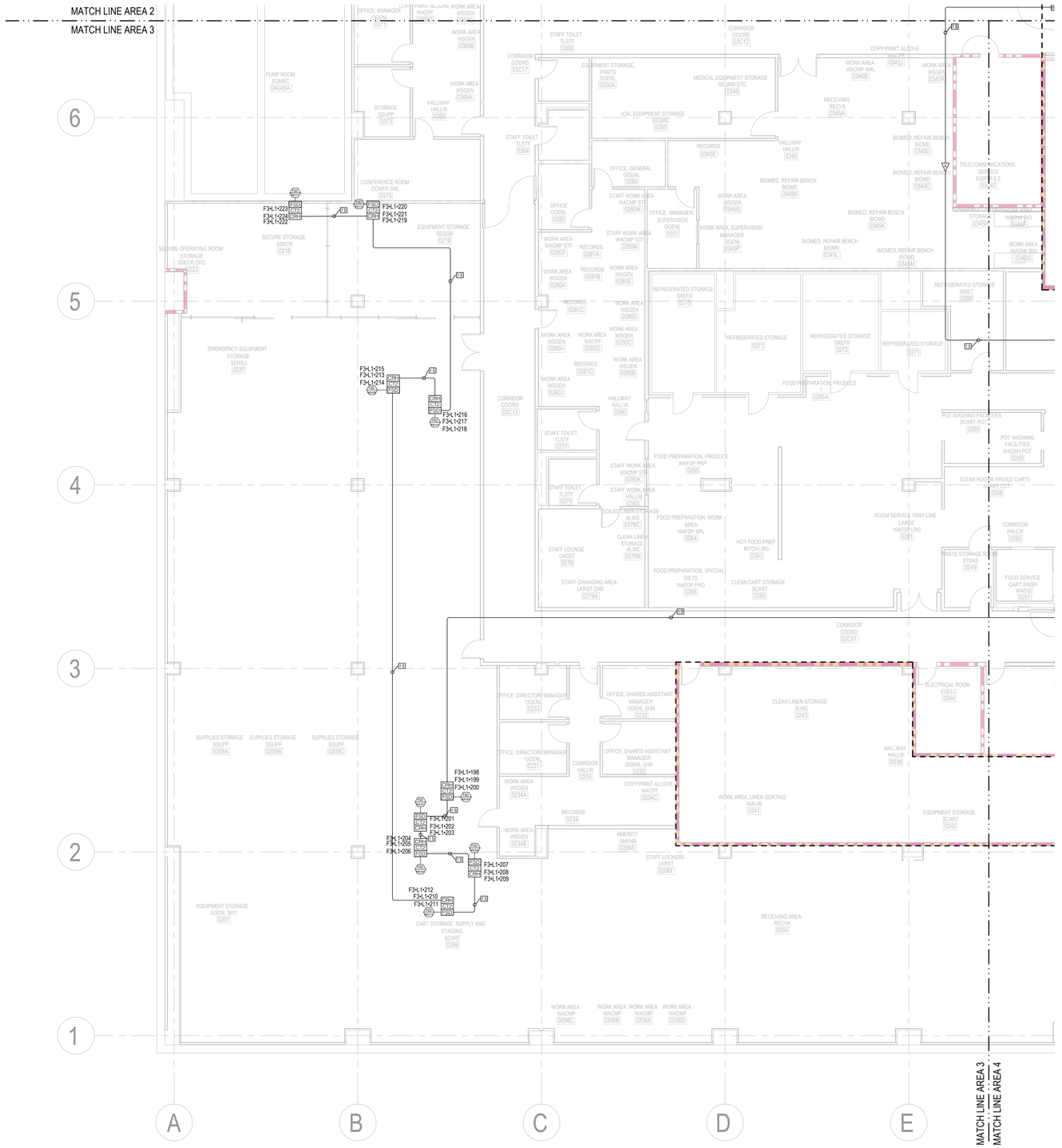
PARTIAL FIRE ALARM FSDs DEVICES PLAN - LOWER LEVEL - AREA 2

Building ID:	Floor Lev:
Scale 1/8" = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	

Sheet

H-FA200.2.C

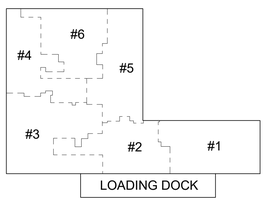
ORIGINAL SHEET - ARCH E1



KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- SLC CIRCUIT (1 S)
- NAC CIRCUIT (1 V)
- POWER CIRCUIT (1 P)
- SPEAKER CIRCUIT (1 A)
- IDC CIRCUIT (1 Z)
- NETWORK CIRCUIT (1 N)
- AUDIO RISER (1 A)
- SLC CIRCUITS IN CLASS A (1 S)

PARTIAL FIRE ALARM FSDs DEVICES PLAN - LOWER LEVEL - AREA 3

SCALE 1/8" = 1'

N

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

FSD LEGEND

- FSD X — DAMPER UNIT
- CT2 — SUPERVISOR OPEN/ CLOSED POSITION
- CRH — SHUTDOWN DAMPER

RATED WALLS LEGEND

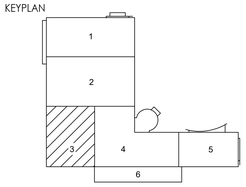
- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

Consultant

Architect / Engineer of Record

PRELIMINARY NOT FOR CONSTRUCTION

KEYPLAN



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Issued	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Facility

Project

Title

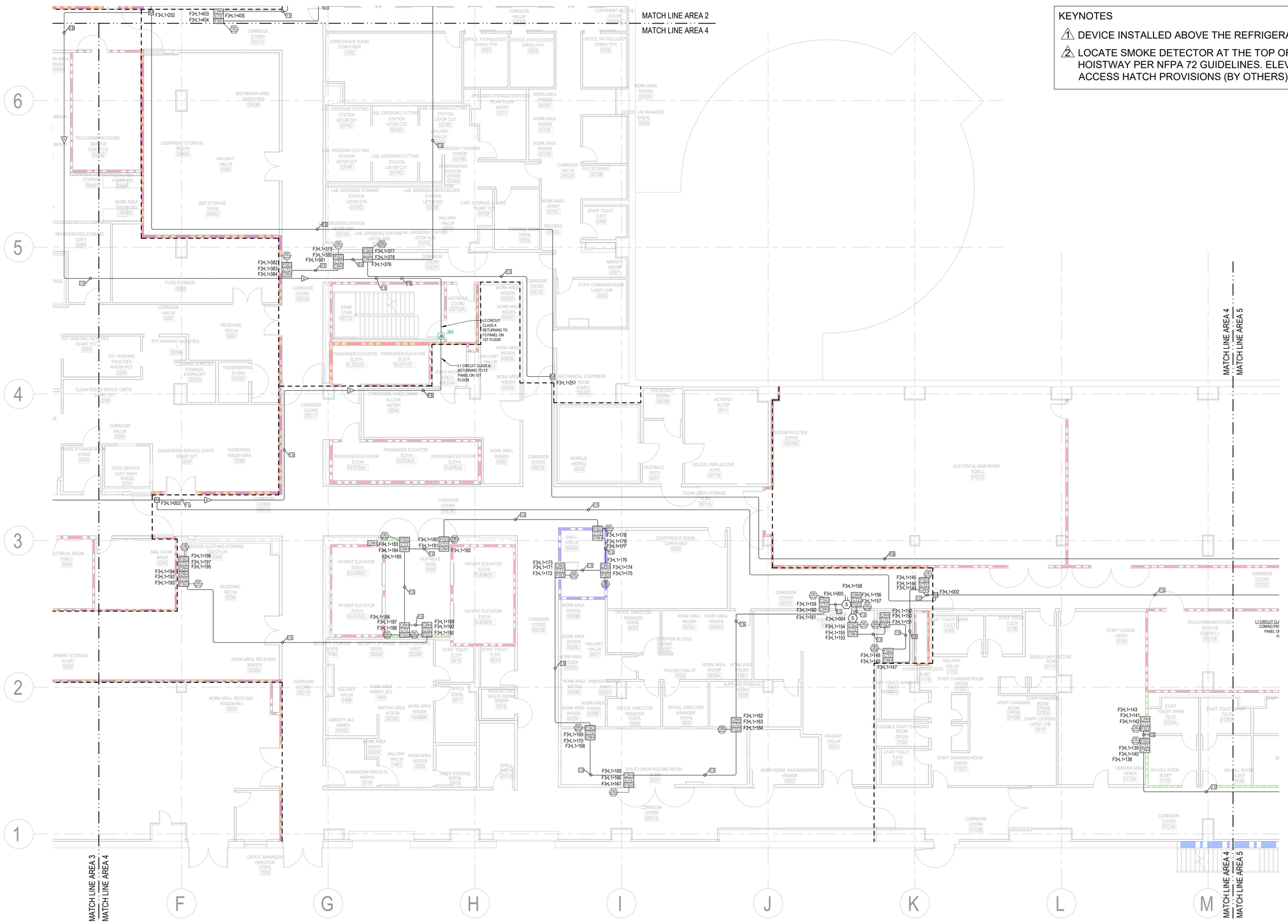
PARTIAL FIRE ALARM FSDs DEVICES PLAN - LOWER LEVEL - AREA 3

Building ID	Floor Lev.
Scale 1/8" = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	

Sheet

H-FA200.3.C

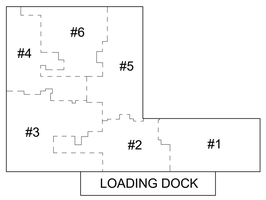
ORIGINAL SHEET - ARCH E1



KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- 1 S — SLC CIRCUIT
- 1 V — NAC CIRCUIT
- 1 P — POWER CIRCUIT
- 1 A — SPEAKER CIRCUIT
- 1 Z — IDC CIRCUIT
- 1 N — NETWORK CIRCUIT
- 1 A — AUDIO RISER
- 1 S — SLC CIRCUITS IN CLASS A

PARTIAL FIRE ALARM FSDs DEVICES PLAN - LOWER LEVEL - AREA 4

SCALE 1/8" = 1'

N

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

FSD LEGEND

- FSD / X — DAMPER UNIT
- CT2 — SUPERVISOR OPEN/ CLOSED POSITION
- CRH — SHUTDOWN DAMPER

RATED WALLS LEGEND

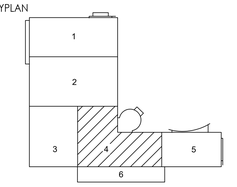
- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

Consultant

Architect / Engineer of Record

PRELIMINARY NOT FOR CONSTRUCTION

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
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Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd.

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Facility

Project

Title

PARTIAL FIRE ALARM FSDs DEVICES PLAN - LOWER LEVEL - AREA 4

Building ID		Floor Lev.	
Scale	1/8" = 1'-0"	KP Proj. No.	
Dwn By	LW	Stantec No.	
Chckd By	VL		

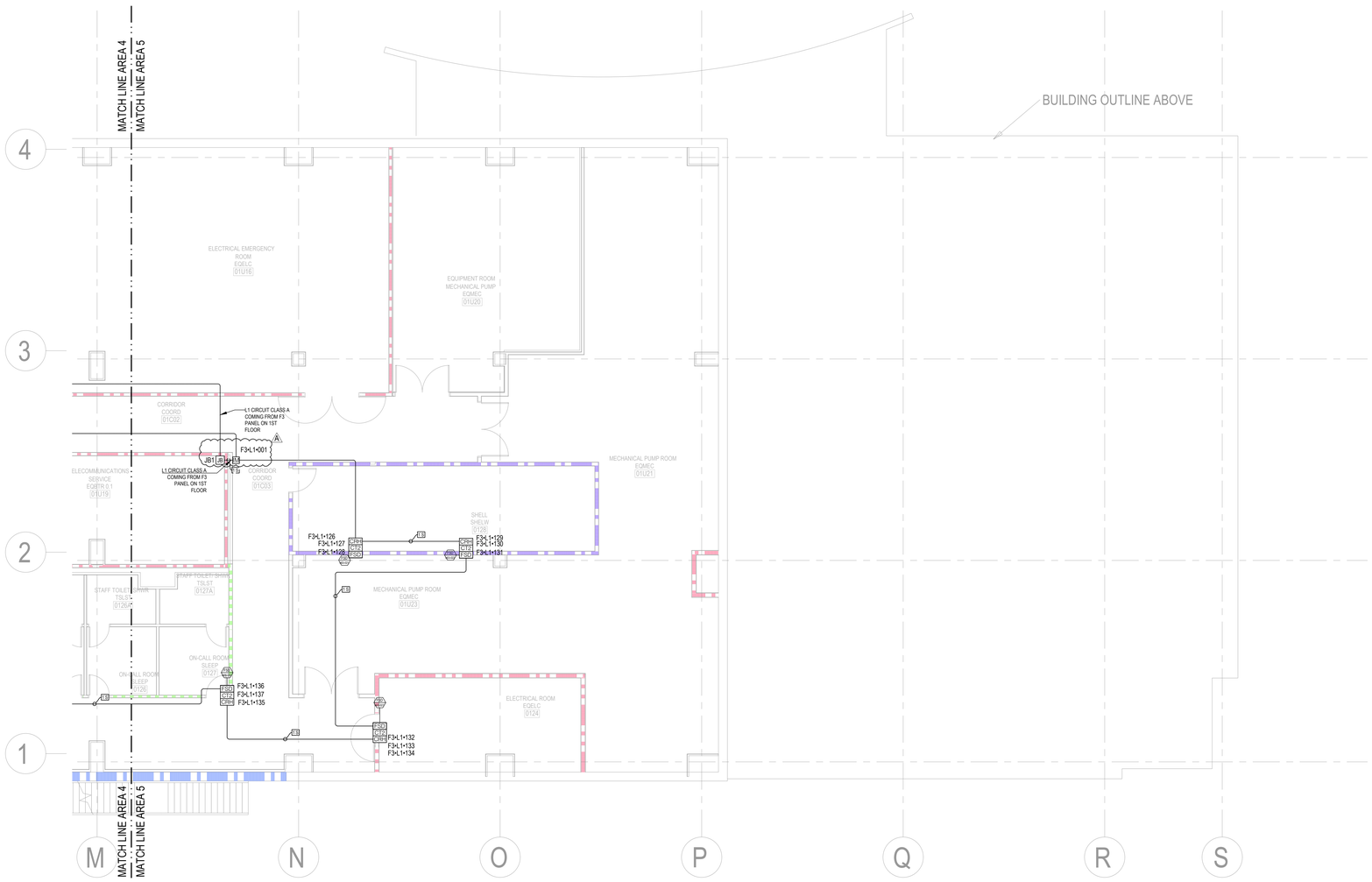
Sheet

H-FA200.4.C

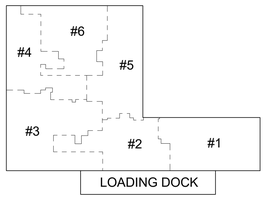
ORIGINAL SHEET - ARCH E1

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).



SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- SLC CIRCUIT (1 S)
- NAC CIRCUIT (1 V)
- POWER CIRCUIT (1 P)
- SPEAKER CIRCUIT (1 A)
- IDC CIRCUIT (1 Z)
- NETWORK CIRCUIT (1 N)
- AUDIO RISER (1 A)
- SLC CIRCUITS IN CLASS A (1 S)

PARTIAL FIRE ALARM FSDs DEVICES PLAN - LOWER LEVEL - AREA 5

SCALE 1/8" = 1'

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

N

FSD LEGEND

- FSD X — DAMPER UNIT
- CT2 — SUPERVISOR OPEN/ CLOSED POSITION
- CRH — SHUTDOWN DAMPER

RATED WALLS LEGEND

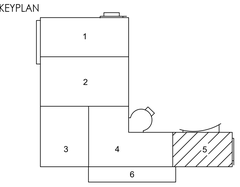
- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

Consultant

Architect / Engineer of Record

PRELIMINARY NOT FOR CONSTRUCTION

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04
Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

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INCREMENT 4 - I2300010-43-04

Facility

Project

Title

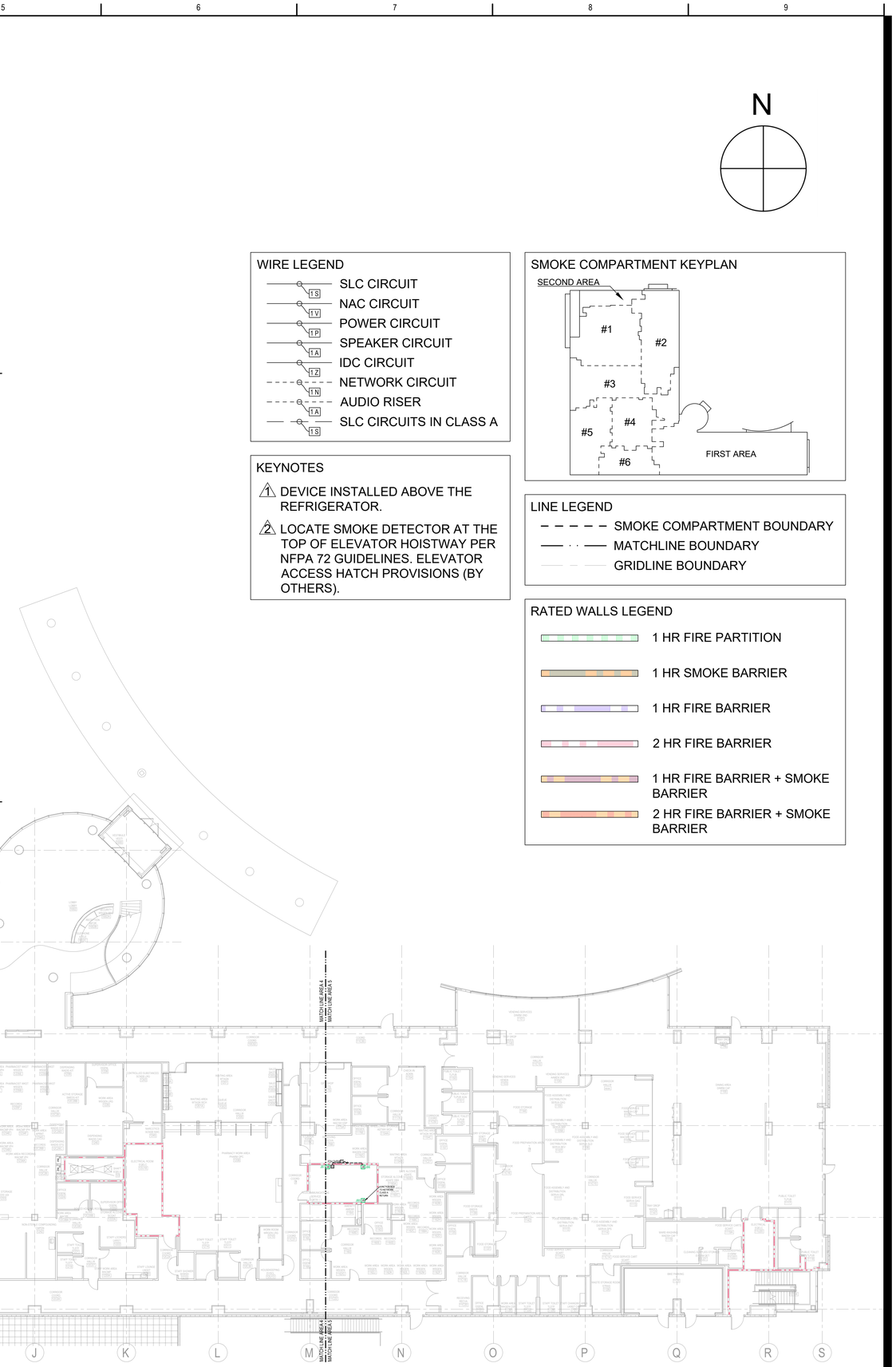
PARTIAL FIRE ALARM FSDs DEVICES PLAN - LOWER LEVEL - AREA 5

Building ID	Floor Lev.
Scale 1/8" = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	

Sheet

H-FA200.5.C

ORIGINAL SHEET - ARCH E1



LEVEL 1 ISOLATORS LAYOUT

SCALE 1/16" = 1'

N

WIRE LEGEND

- 1 S — SLC CIRCUIT
- 1 V — NAC CIRCUIT
- 1 P — POWER CIRCUIT
- 1 A — SPEAKER CIRCUIT
- 1 Z — IDC CIRCUIT
- 1 N — NETWORK CIRCUIT
- 1 A — AUDIO RISER
- 1 S — SLC CIRCUITS IN CLASS A

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

SMOKE COMPARTMENT KEYPLAN

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

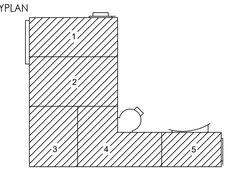
RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Agency Approval

DSHPD No.: I230010-43-00
INCREMENT 4 - I230010-43-04

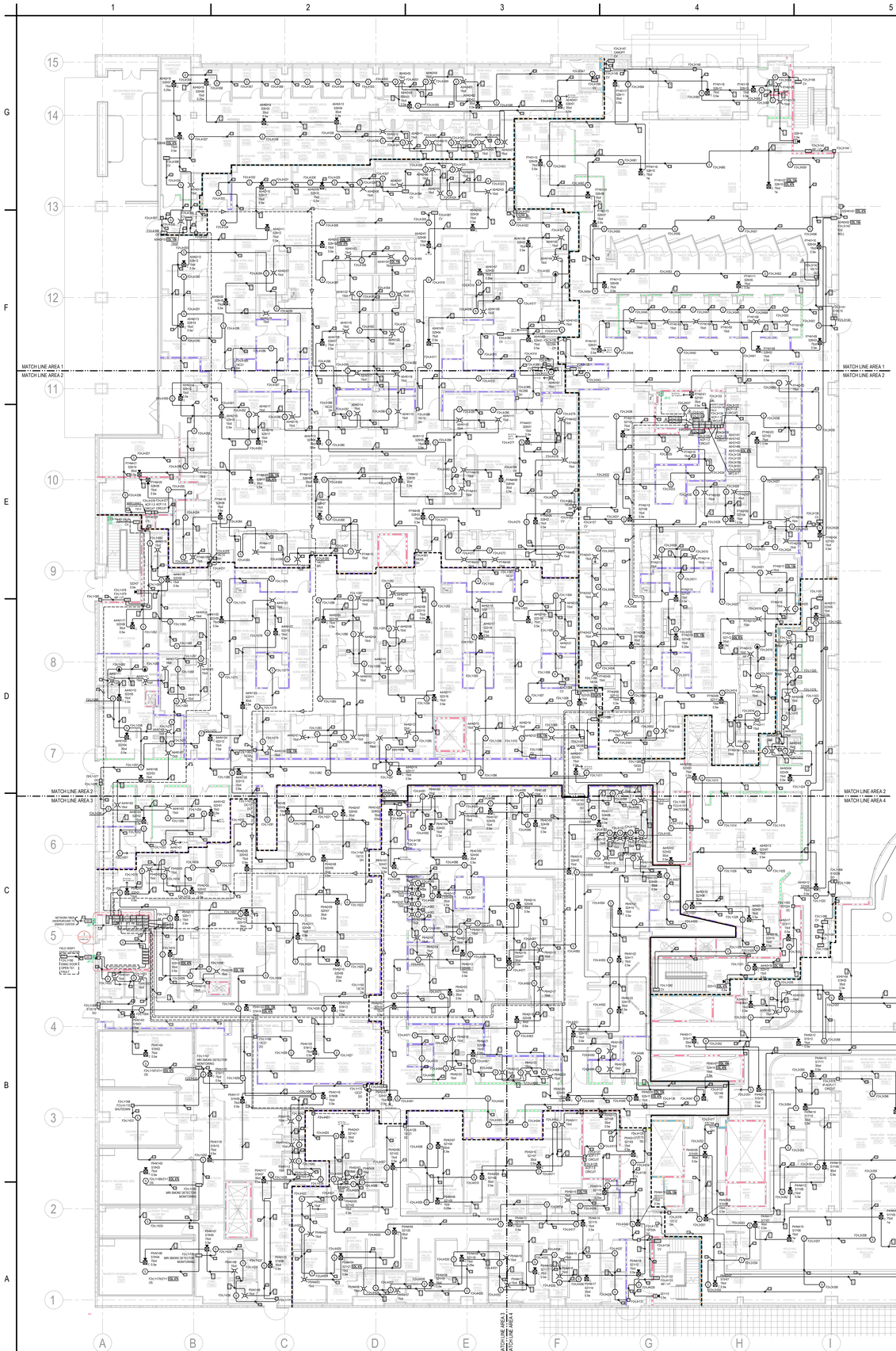
Facility

Project

Title
LEVEL 1 ISOLATORS LAYOUT

Building ID:		Floor Lev:	
Scale	1/16 = 1'-0"	KP Proj. No.	
Drwn By	LW	Stantec No.	
Chckd By	VL	Sheet	**H-FA101.A**

ORIGINAL SHEET - ARCH E1



LEVEL 1 GENERAL DEVICES LAYOUT

SCALE 1/16" = 1'

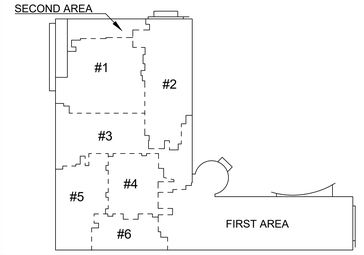
WIRE LEGEND

- SLC CIRCUIT
- NAC CIRCUIT
- POWER CIRCUIT
- SPEAKER CIRCUIT
- IDC CIRCUIT
- NETWORK CIRCUIT
- AUDIO RISER
- SLC CIRCUITS IN CLASS A

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

SMOKE COMPARTMENT KEYPLAN



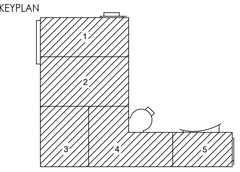
LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

KEYPLAN



Consultant

Architect / Engineer of Record

Revision

	By	Appd	YYYY.MM.DD

INCREMENT 4 SEG 3B SUBMISSION #1 — 2025.03.04

Issued

	By	Appd	YYYY.MM.DD
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Agency Approval

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INCREMENT 4 - 123010-43-04

Facility

Project

Title
LEVEL 1 GENERAL DEVICES LAYOUT

Building ID:	Floor Lev.:
Scale 1/16 = 1'-0"	KP Proj. No.
Dwn By LW	Stantec No.
Chckd By VL	Sheet **H-FA101.B**

ORIGINAL SHEET - ARCH E1

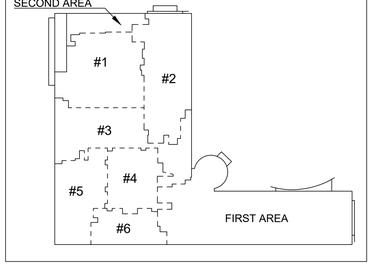
KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

MATCH LINE AREA 1
MATCH LINE AREA 2

MATCH LINE AREA 1
MATCH LINE AREA 2

SMOKE COMPARTMENT KEYPLAN
SECOND AREA



WIRE LEGEND

- SLC CIRCUIT (1S)
- NAC CIRCUIT (1V)
- POWER CIRCUIT (1P)
- SPEAKER CIRCUIT (1A)
- IDC CIRCUIT (1Z)
- NETWORK CIRCUIT (1N)
- AUDIO RISER (1A)
- SLC CIRCUITS IN CLASS A (1S)

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 1 - AREA 1

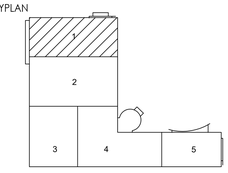
SCALE 1/8" = 1'

N

Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2023.03.04
Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Agency Approval

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INCREMENT 4 - 1230010-43-04

Facility

Project

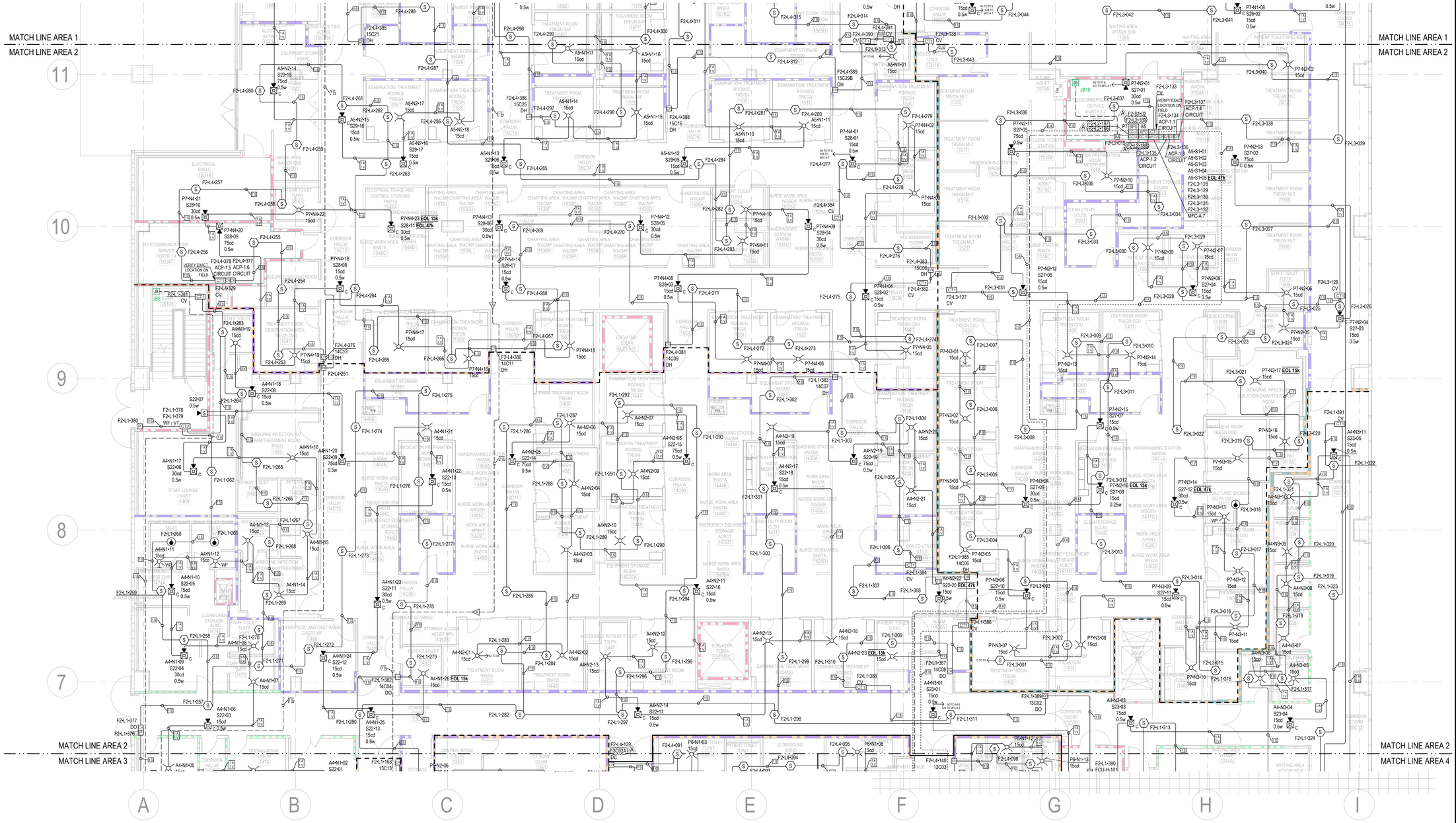
Title
PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 1 - AREA 1

Building ID		Floor Lev.	
Scale	1/8" = 1'-0"	KP Proj. No.	
Drwn By	LW	Stantec No.	
Chckd By	VL	Sheet	**H-FA201.1.B**

ORIGINAL SHEET - ARCH E1

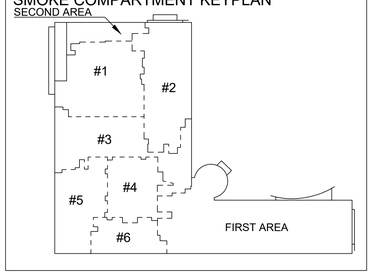
KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).



SMOKE COMPARTMENT KEYPLAN

SECOND AREA



WIRE LEGEND

- SLC CIRCUIT
- NAC CIRCUIT
- POWER CIRCUIT
- SPEAKER CIRCUIT
- IDC CIRCUIT
- NETWORK CIRCUIT
- AUDIO RISER
- SLC CIRCUITS IN CLASS A

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 1 - AREA 2

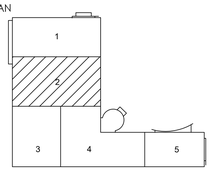
SCALE 1/8" = 1'

N

Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04
Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Agency Approval

DSHPD No.: I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

Project

Title

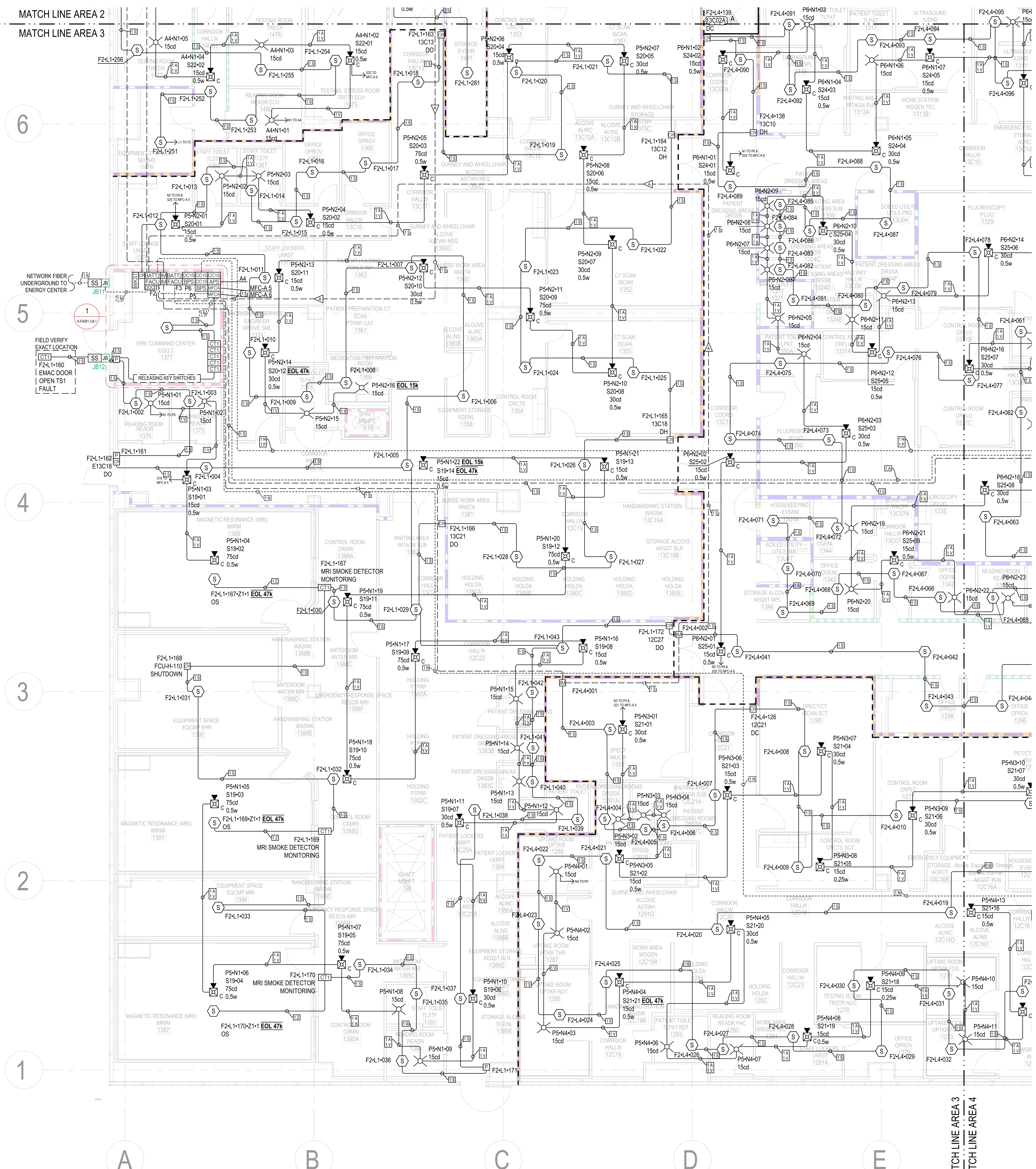
PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 1 - AREA 2

Building ID:	Floor Lev:
Scale 1/8" = 1'-0"	KP Proj. No.
Dwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA201.2.B

ORIGINAL SHEET - ARCH E1

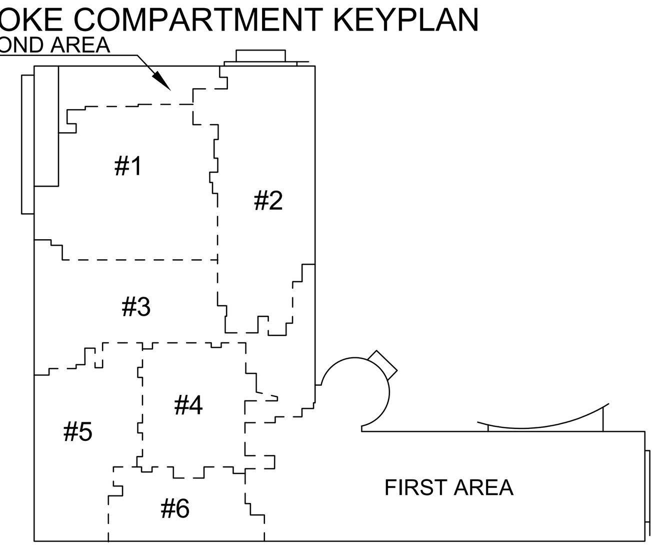
1	2	3	4	5	6	7	8	9



KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

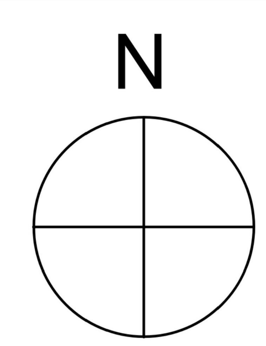
- 1S — SLC CIRCUIT
- 1V — NAC CIRCUIT
- 1P — POWER CIRCUIT
- 1A — SPEAKER CIRCUIT
- 1Z — IDC CIRCUIT
- 1N — NETWORK CIRCUIT
- 1A — AUDIO RISER
- 1S — SLC CIRCUITS IN CLASS A

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 1 - AREA 3

SCALE 1/8" = 1'

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY



RATED WALLS LEGEND

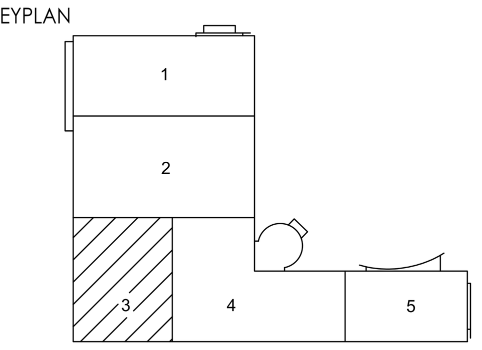
- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

ORIGINAL SHEET - ARCH E1

Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Agency Approval
OSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

Project

Title
PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 1 - AREA 3

Building ID:		Floor Lev:	
Scale	1/8 = 1'-0"	KP Proj. No.	
Drwn By	LW	Stantec No.	
Chckd By	VL		

Sheet
H-FA201.3.B

KEYNOTES

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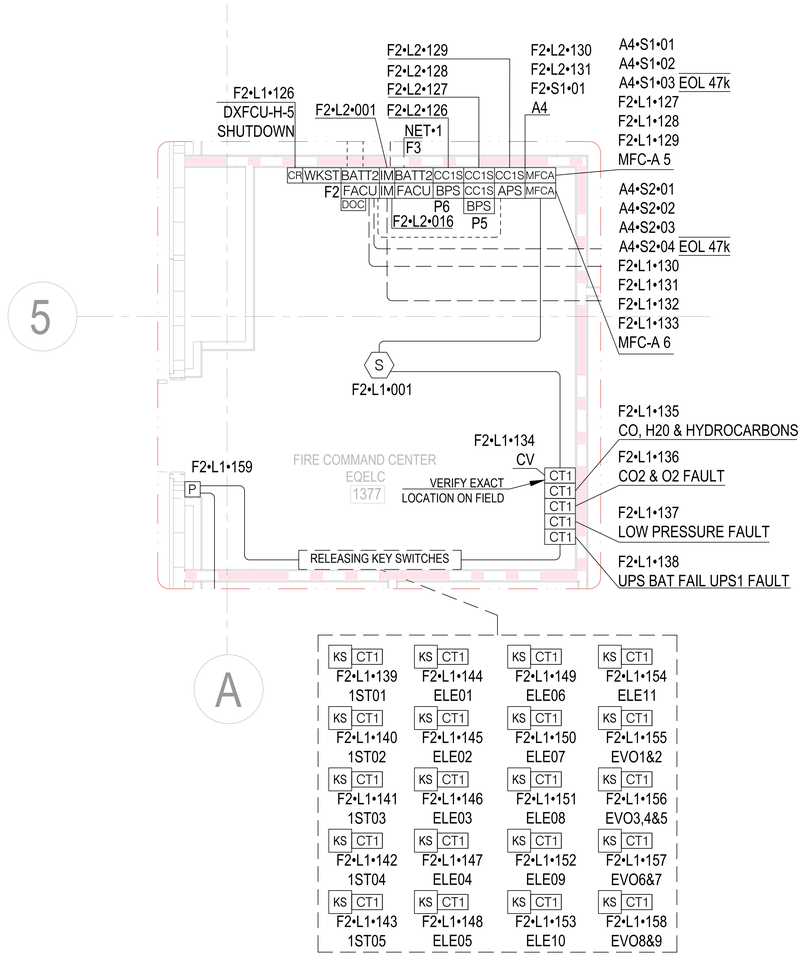
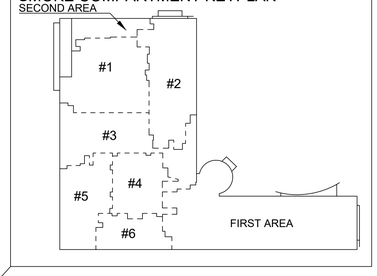


SMOKE COMPARTMENT KEYPLAN
SECOND AREA



WIRE LEGEND

- SLC CIRCUIT (1 S)
- NAC CIRCUIT (1 V)
- POWER CIRCUIT (1 P)
- SPEAKER CIRCUIT (1 A)
- IDC CIRCUIT (1 Z)
- NETWORK CIRCUIT (1 N)
- AUDIO RISER (1 A)
- SLC CIRCUITS IN CLASS A (1 S)

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

N

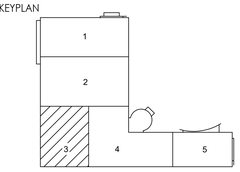
FIRE COMMAND CENTER - EQELC - 1377 - DETAIL

SCALE 3/8" = 1'

Consultant

Architect / Engineer of Record

KEYPLAN



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INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1				2025.03.04

Agency Approval
OSHPD No. I2300010-43-00
INCREMENT 4 - I2300010-43-04

Facility

Project

Title
FIRE COMMAND CENTER - EQELC - 1377 - DETAIL

Building ID:	Floor Lev:
Scale 1/8" = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA201.3.B.1

ORIGINAL SHEET - ARCH E1

MATCH LINE AREA 2
MATCH LINE AREA 4

MATCH LINE AREA 4
MATCH LINE AREA 5

MATCH LINE AREA 3
MATCH LINE AREA 4

MATCH LINE AREA 4
MATCH LINE AREA 5

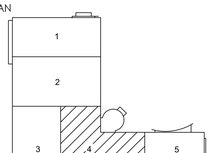
NETWORK FIBER UNDERGROUND TO ENERGY CENTER

FIELD VERIFY EXACT LOCA

KEYNOTES

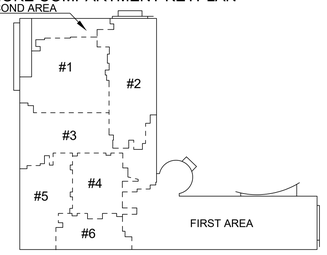
1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

KEYPLAN



SMOKE COMPARTMENT KEYPLAN

SECOND AREA



WIRE LEGEND

- SLC CIRCUIT
- NAC CIRCUIT
- POWER CIRCUIT
- SPEAKER CIRCUIT
- IDC CIRCUIT
- NETWORK CIRCUIT
- AUDIO RISER
- SLC CIRCUITS IN CLASS A

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 1 - AREA 4

SCALE 1/8" = 1'

N

Consultant

Architect / Engineer of Record

Revision

	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued

	By	Appd	YYYY.MM.DD
Dwn.	Dsgn.	Chkd.	

Agency Approval

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INCREMENT 4 - I230010-43-04

Facility

Project

Title

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 1 - AREA 4

Building ID:	Floor Lev:
Scale: 1/8" = 1'-0"	KP Proj. No.
Drwn By: LW	Stantec No.
Chckd By: VL	Sheet

H-FA201.4.B

ORIGINAL SHEET - ARCH E1

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
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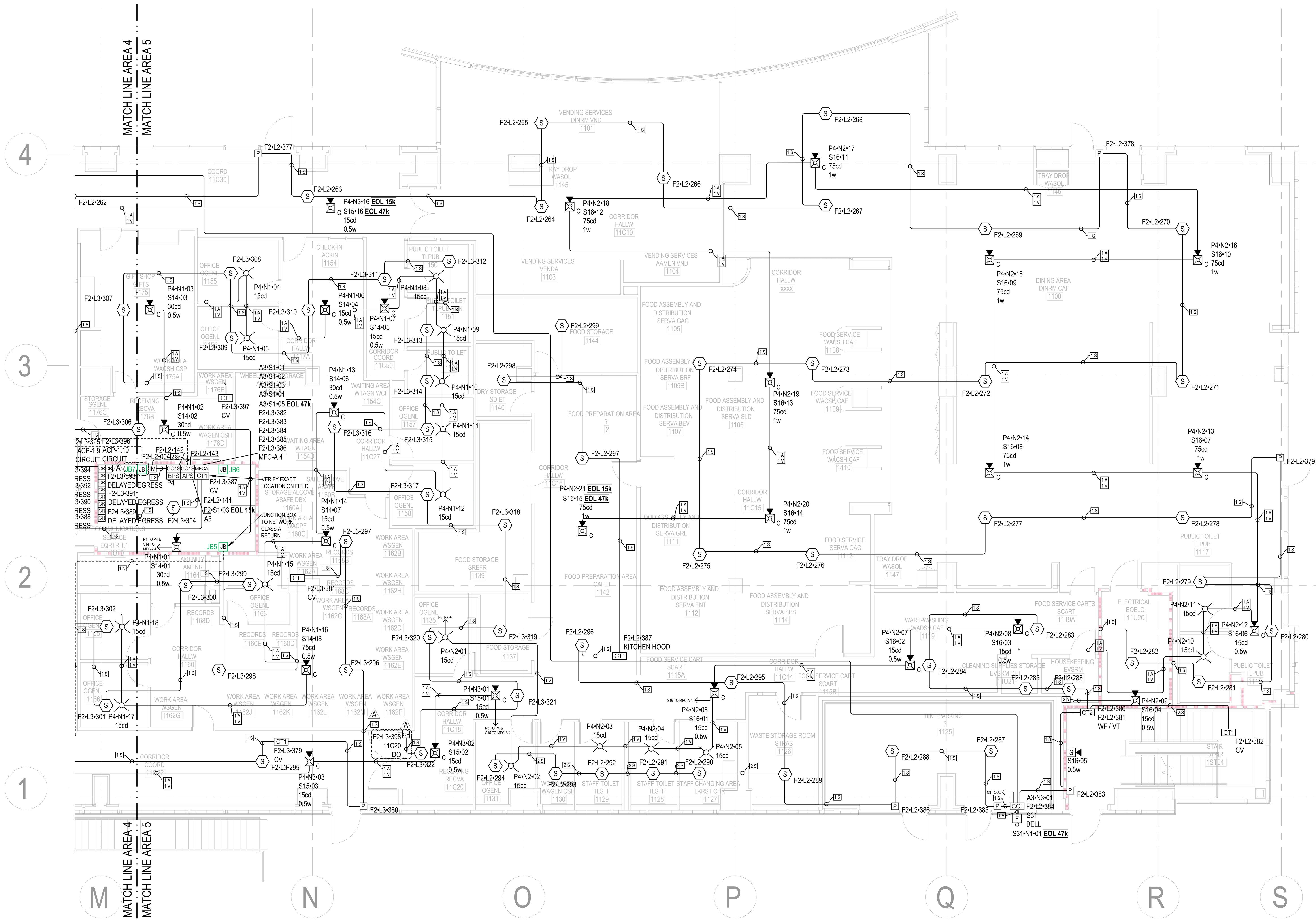
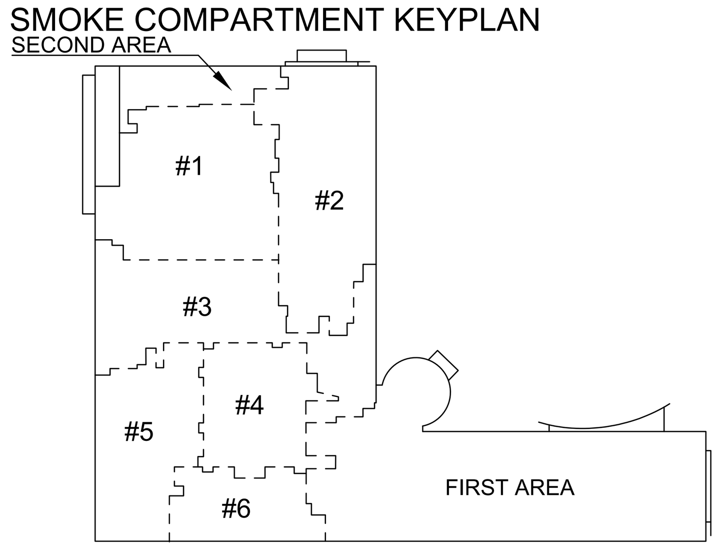


SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

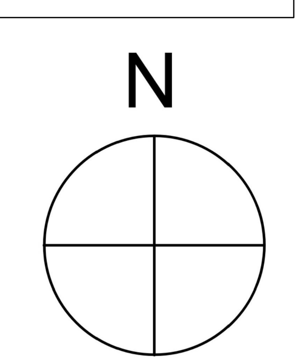
- 1S — SLC CIRCUIT
- 1V — NAC CIRCUIT
- 1P — POWER CIRCUIT
- 1A — SPEAKER CIRCUIT
- 1Z — IDC CIRCUIT
- 1N — NETWORK CIRCUIT
- 1A — AUDIO RISER
- 1S — SLC CIRCUITS IN CLASS A

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 1 - AREA 5

SCALE 1/8" = 1'

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY



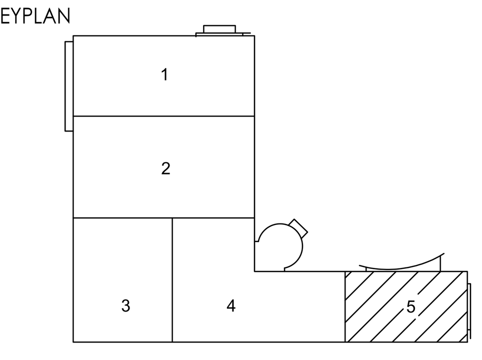
RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

Consultant

Architect / Engineer of Record

KEYPLAN



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Issued	By	Appd	YYYY.MM.DD

	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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INCREMENT 4 - I230010-43-04

Facility

Project

Title
PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 1 - AREA 5

Building ID:
Floor Lev:
Scale 1/8 = 1'-0"
Drwn By LW
Chckd By VL
KP Proj. No.
Stantec No.

Sheet
H-FA201.5.B

ORIGINAL SHEET - ARCH E1

LEVEL 1 FSDs DEVICES LAYOUT

SCALE 1/16" = 1'

N

WIRE LEGEND

- 1 S — SLC CIRCUIT
- 1 V — NAC CIRCUIT
- 1 P — POWER CIRCUIT
- 1 A — SPEAKER CIRCUIT
- 1 Z — IDC CIRCUIT
- 1 N — NETWORK CIRCUIT
- 1 A — AUDIO RISER
- 1 S — SLC CIRCUITS IN CLASS A

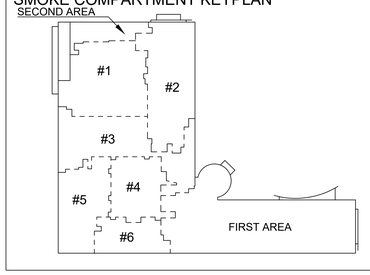
FSD LEGEND

- FSD / X — DAMPER UNIT
- CT2 — SUPERVISOR OPEN/CLOSED POSITION
- CRH — SHUTDOWN DAMPER

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

SMOKE COMPARTMENT KEYPLAN



LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

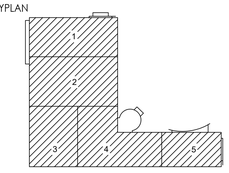
RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

Consultant

Architect / Engineer of Record

KEYPLAN



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	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Agency Approval

DSHPD No.: I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

Project

Title

LEVEL 1 FSDs DEVICES LAYOUT

Building ID:		Floor Lev:	
Scale	1/16 = 1'-0"	KP Proj. No.	
Drwn By	LW	Stantec No.	
Chckd By	VL	Sheet	**H-FA101.C**

ORIGINAL SHEET - ARCH E1

KEYNOTES

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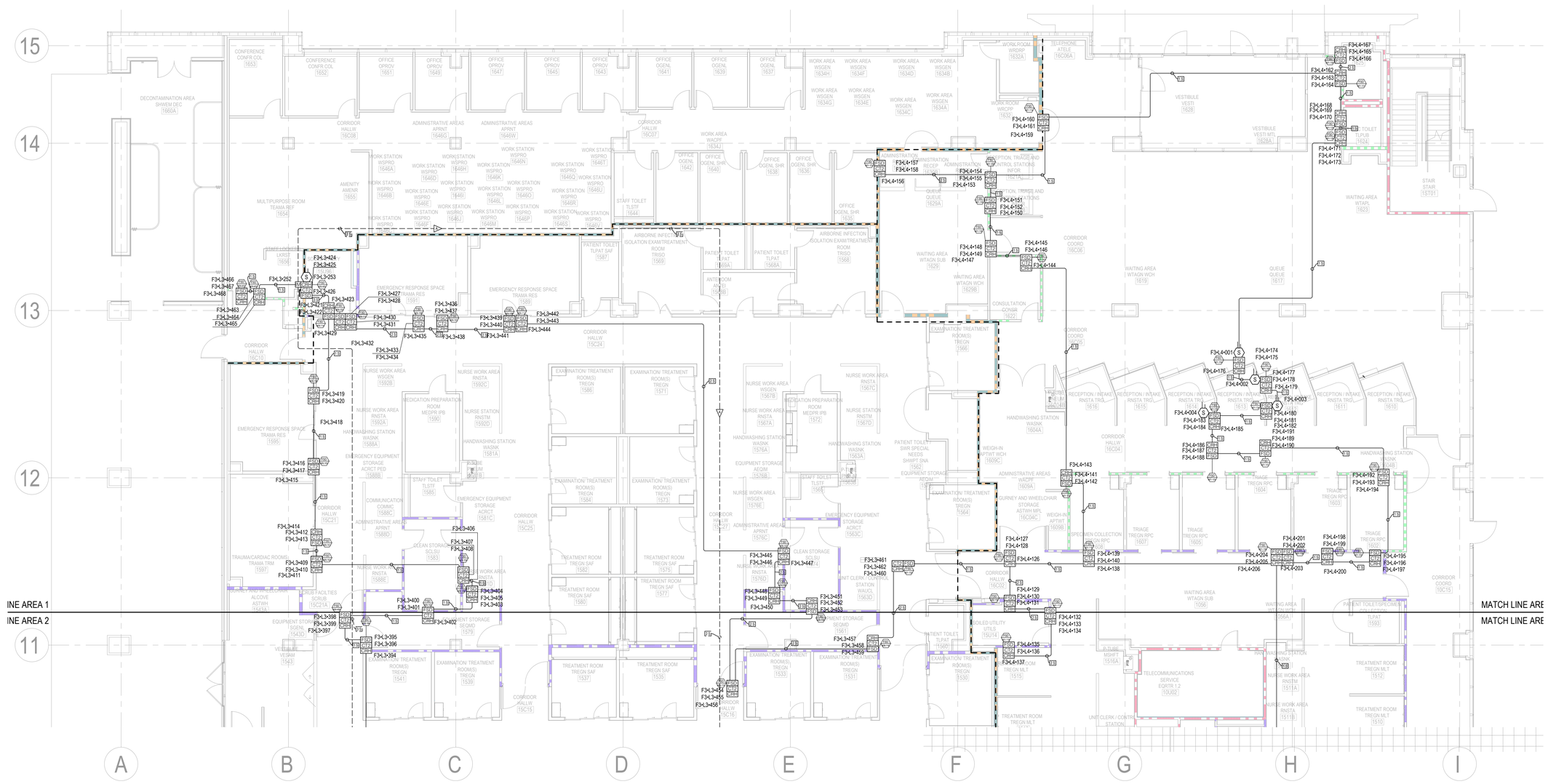
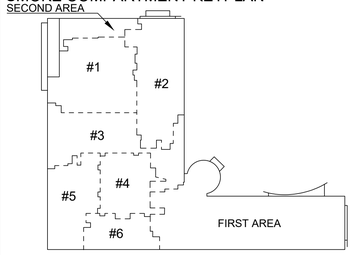


SMOKE COMPARTMENT KEYPLAN

SECOND AREA



WIRE LEGEND

- 1S — SLC CIRCUIT
- 1V — NAC CIRCUIT
- 1P — POWER CIRCUIT
- 1A — SPEAKER CIRCUIT
- 1Z — IDC CIRCUIT
- 1N — NETWORK CIRCUIT
- 1A — AUDIO RISER
- 1S — SLC CIRCUITS IN CLASS A

PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 1 - AREA 1

SCALE 1/8" = 1'

N

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

FSD LEGEND

- FSD x — DAMPER UNIT
- CT2 — SUPERVISOR OPEN/ CLOSED POSITION
- CRH — SHUTDOWN DAMPER

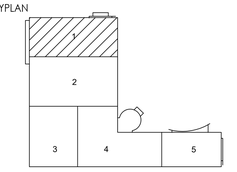
RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

Consultant

Architect / Engineer of Record

KEYPLAN



Revision

	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued

	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Agency Approval

DSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

Project

Title

PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 1 - AREA 1

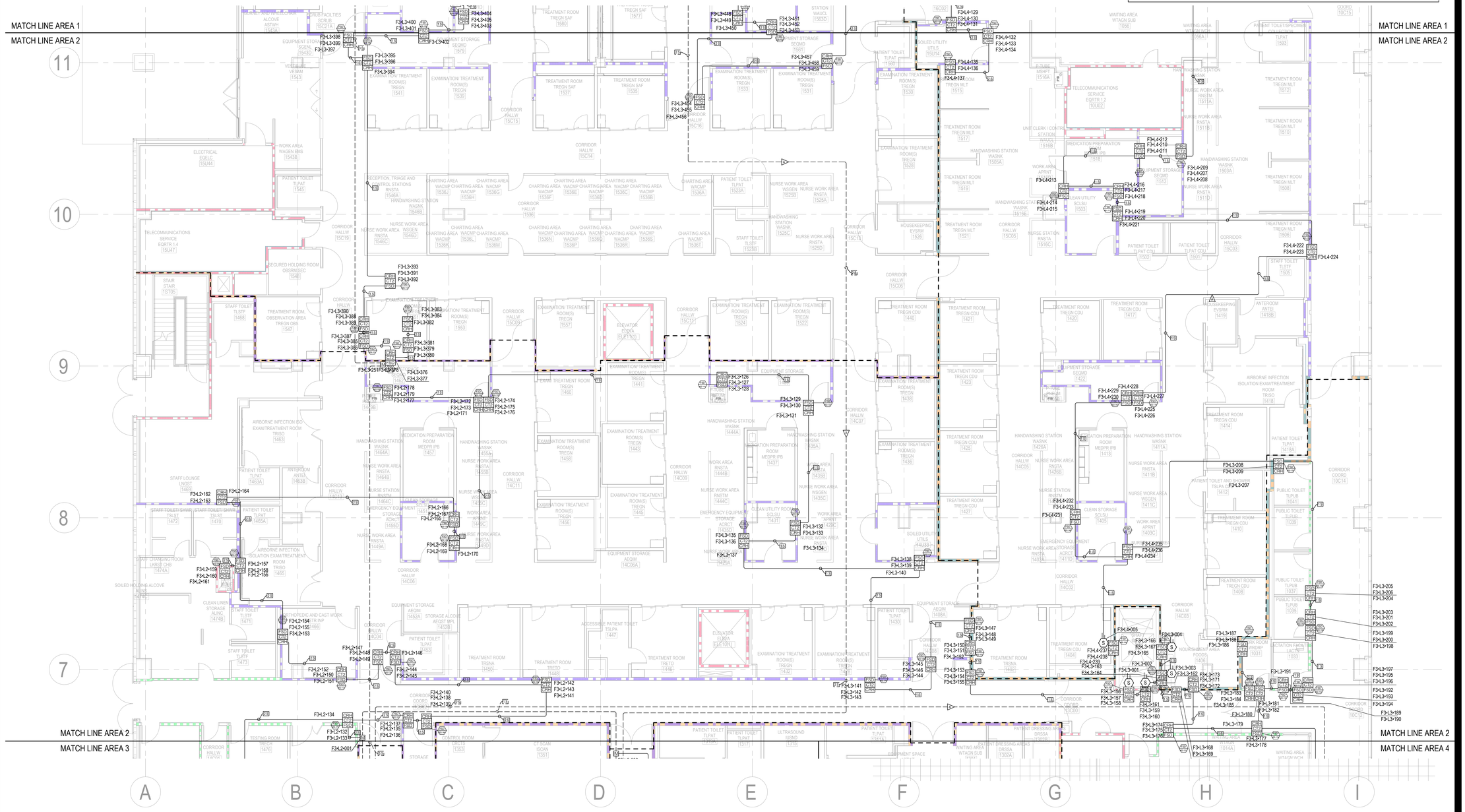
Building ID:	Floor Lev:
Scale 1/8" = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	

Sheet

H-FA201.1.C

ORIGINAL SHEET - ARCH E1

MATCH LINE AREA 1
MATCH LINE AREA 2



KEYNOTES

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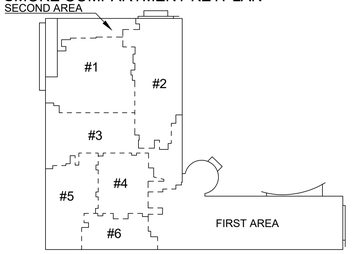
SMOKE COMPARTMENT KEYPLAN

SECOND AREA



WIRE LEGEND

- SLC CIRCUIT (1S)
- NAC CIRCUIT (1V)
- POWER CIRCUIT (1P)
- SPEAKER CIRCUIT (1A)
- IDC CIRCUIT (1Z)
- NETWORK CIRCUIT (1N)
- AUDIO RISER (1A)
- SLC CIRCUITS IN CLASS A (1S)

PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 1 - AREA 2

SCALE 1/8" = 1'

N

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

FSD LEGEND

- FSD X — DAMPER UNIT
- CT2 — SUPERVISOR OPEN/ CLOSED POSITION
- CRH — SHUTDOWN DAMPER

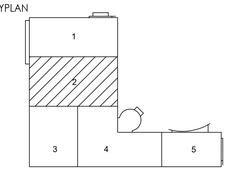
RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

Consultant

Architect / Engineer of Record

KEYPLAN



Revision

	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued

Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Agency Approval

OSHPD No. 1230010-43-00
INCREMENT 4 - 1230010-43-04

Facility

Project

Title

PARTIAL FIRE ALARM FSDs DEVICE PLAN - LEVEL 1 - AREA 2

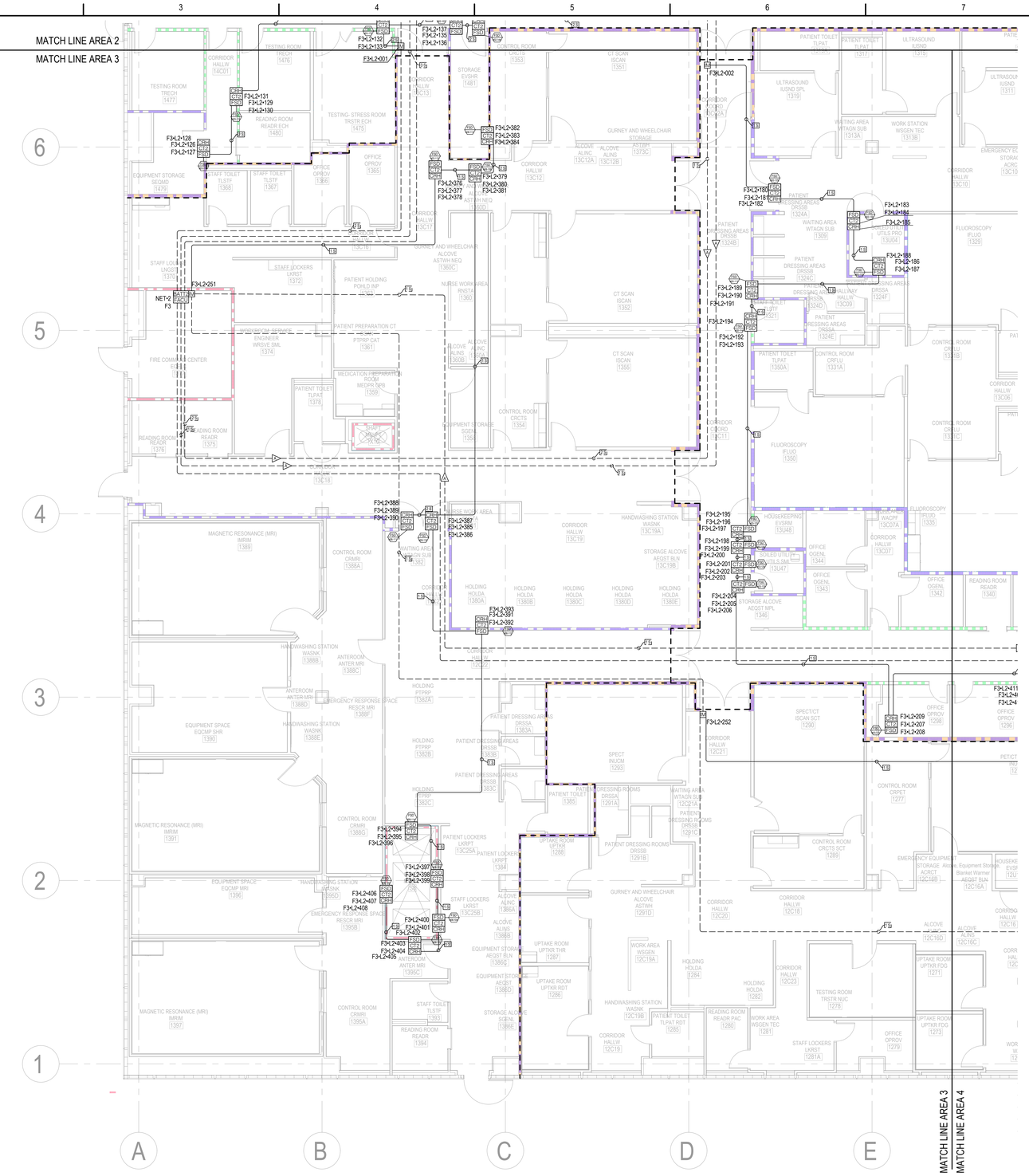
Building ID:	Floor Lev:
Scale 1/8" = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA201.2.C

ORIGINAL SHEET - ARCH E1

MATCH LINE AREA 2

MATCH LINE AREA 3



KEYNOTES

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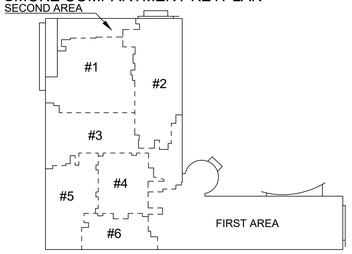
SMOKE COMPARTMENT KEYPLAN
SECOND AREA



WIRE LEGEND

- SLC CIRCUIT
- NAC CIRCUIT
- POWER CIRCUIT
- SPEAKER CIRCUIT
- IDC CIRCUIT
- NETWORK CIRCUIT
- AUDIO RISER
- SLC CIRCUITS IN CLASS A

PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 1 - AREA 3

SCALE 1/8" = 1'

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

N

FSD LEGEND

- FSD / X — DAMPER UNIT
- CT2 — SUPERVISOR OPEN/ CLOSED POSITION
- CRH — SHUTDOWN DAMPER

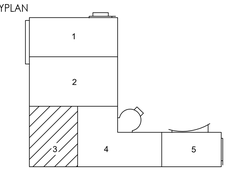
RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEQ 38 SUBMISSION #1			2025.03.04

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	Dwn.	Dsgn.	Chkd.

Agency Approval
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INCREMENT 4 - I230010-43-04

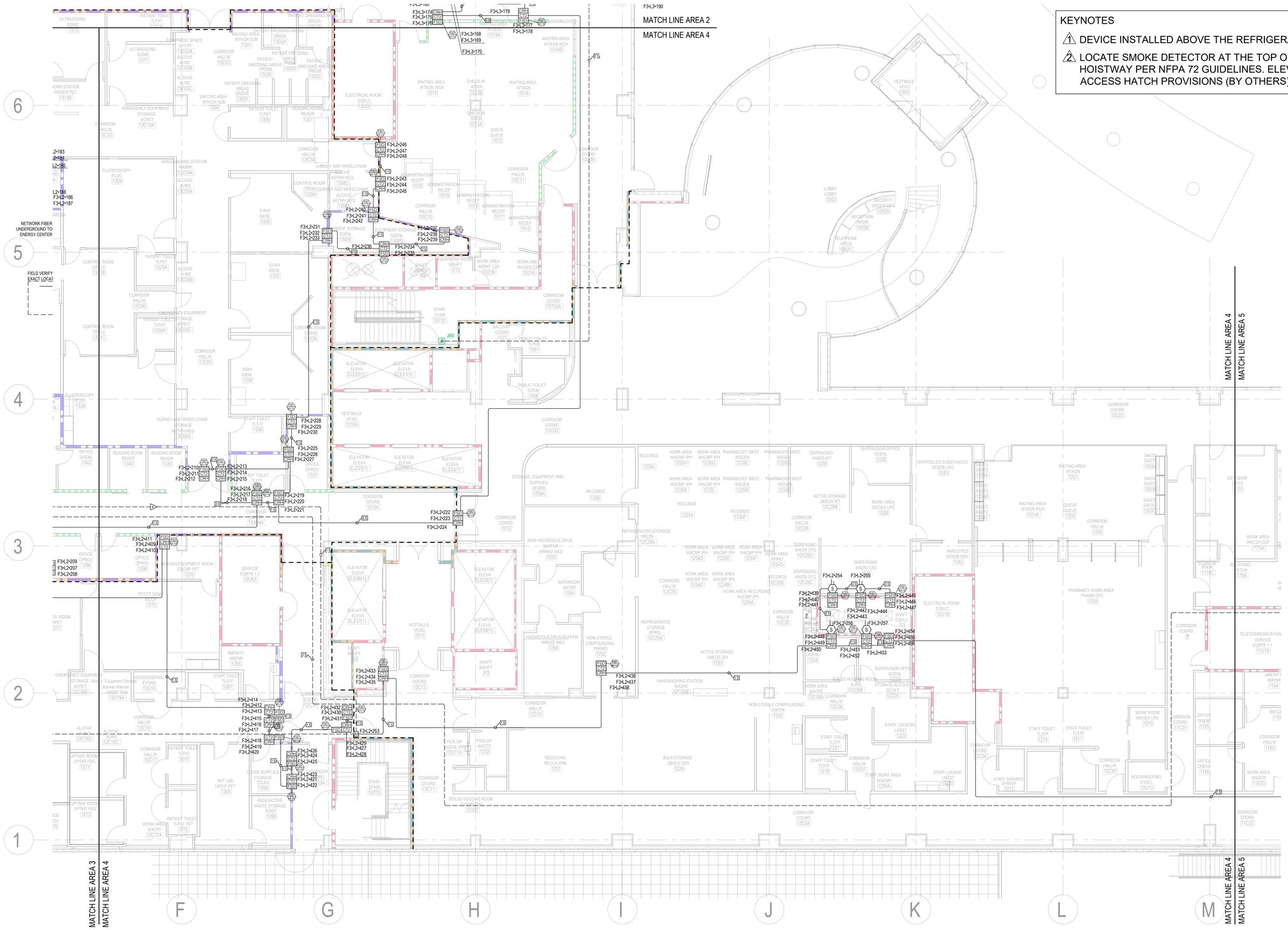
Facility

Project

Title
PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 1 - AREA 3

Building ID		Floor Lev:	
Scale	1/8" = 1'-0"	KP Proj. No.	
Drwn By	LW	Stantec No.	
Chckd By	VL	Sheet	H-FA201.3.C

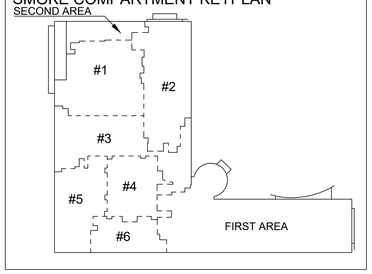
ORIGINAL SHEET - ARCH E1



KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

SMOKE COMPARTMENT KEYPLAN
SECOND AREA



WIRE LEGEND

- SLC CIRCUIT
- NAC CIRCUIT
- POWER CIRCUIT
- SPEAKER CIRCUIT
- IDC CIRCUIT
- NETWORK CIRCUIT
- AUDIO RISER
- SLC CIRCUITS IN CLASS A

PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 1 - AREA 4

SCALE 1/8" = 1'

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

N

FSD LEGEND

- DAMPER UNIT
- SUPERVISOR OPEN/ CLOSED POSITION
- SHUTDOWN DAMPER

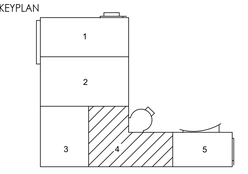
RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

Consultant

Architect / Engineer of Record

KEYPLAN



Revision

	By	Appd	YYYY.MM.DD
INCREMENT 4 SEQ 3B SUBMISSION #1			2025.03.04

Issued

Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Agency Approval

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INCREMENT 4 - I230010-43-04

Facility

Project

Title

PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 1 - AREA 4

Building ID.	Floor Lev.
Scale 1/8" = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet

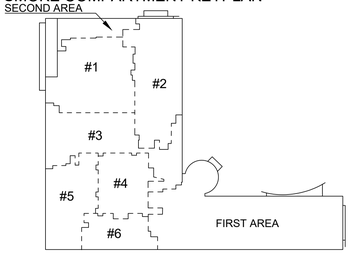
H-FA201.4.C

ORIGINAL SHEET - ARCH E1

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

SMOKE COMPARTMENT KEYPLAN
SECOND AREA



WIRE LEGEND

- SLC CIRCUIT (TS)
- NAC CIRCUIT (TV)
- POWER CIRCUIT (TP)
- SPEAKER CIRCUIT (TA)
- IDC CIRCUIT (TZ)
- NETWORK CIRCUIT (TN)
- AUDIO RISER (TA)
- SLC CIRCUITS IN CLASS A (TS)

PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 1 - AREA 5

SCALE 1/8" = 1'

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

N

FSD LEGEND

- FSD X — DAMPER UNIT
- CT2 — SUPERVISOR OPEN/ CLOSED POSITION
- CRH — SHUTDOWN DAMPER

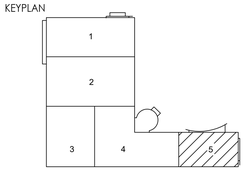
RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Facility

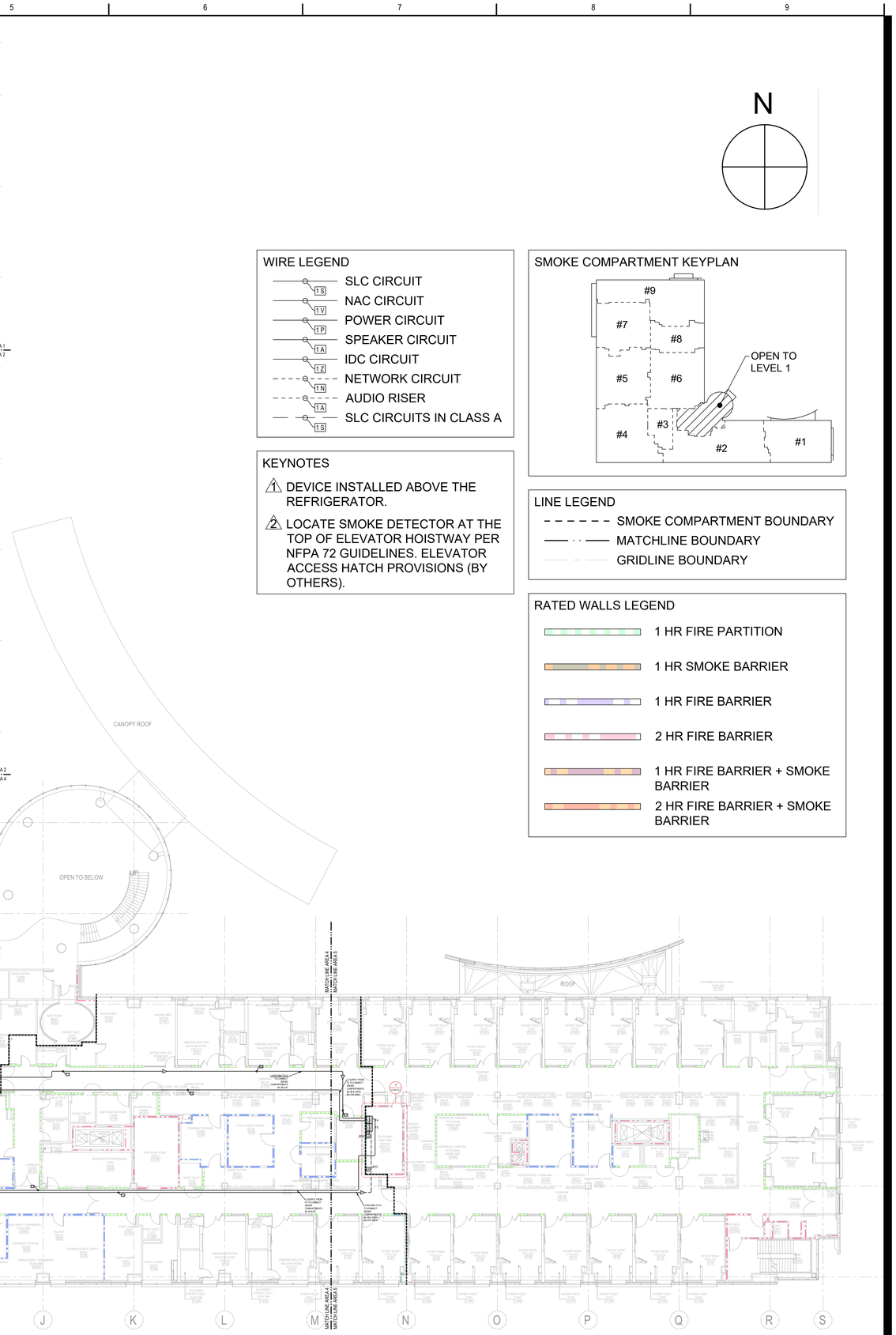
Project

Title
PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 1 - AREA 5

Building ID		Floor Lev.	
Scale	1/8" = 1'-0"	KP Proj. No.	
Drwn By	LW	Stantec No.	
Chckd By	VL		

Sheet
H-FA201.5.C

ORIGINAL SHEET - ARCH E1



N

WIRE LEGEND

- 1 S — SLC CIRCUIT
- 1 V — NAC CIRCUIT
- 1 P — POWER CIRCUIT
- 1 A — SPEAKER CIRCUIT
- 1 Z — IDC CIRCUIT
- 1 N — NETWORK CIRCUIT
- 1 A — AUDIO RISER
- 1 S — SLC CIRCUITS IN CLASS A

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

SMOKE COMPARTMENT KEYPLAN

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

LEVEL 2 ISOLATORS LAYOUT

SCALE 1/16" = 1'

ORIGINAL SHEET - ARCH E1

Consultant

Architect / Engineer of Record

KEYPLAN

Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Agency Approval

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INCREMENT 4 - I230010-43-04

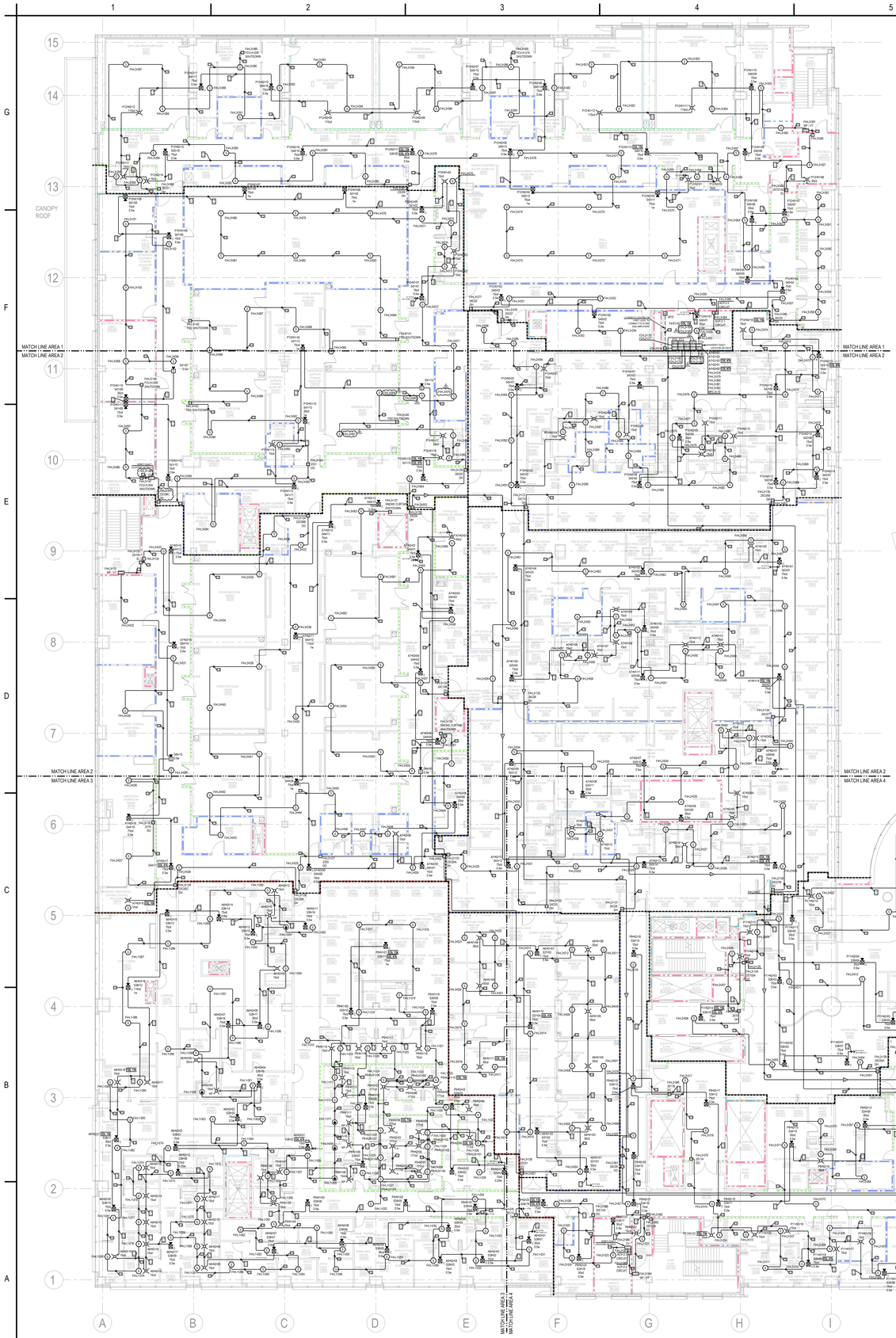
Facility

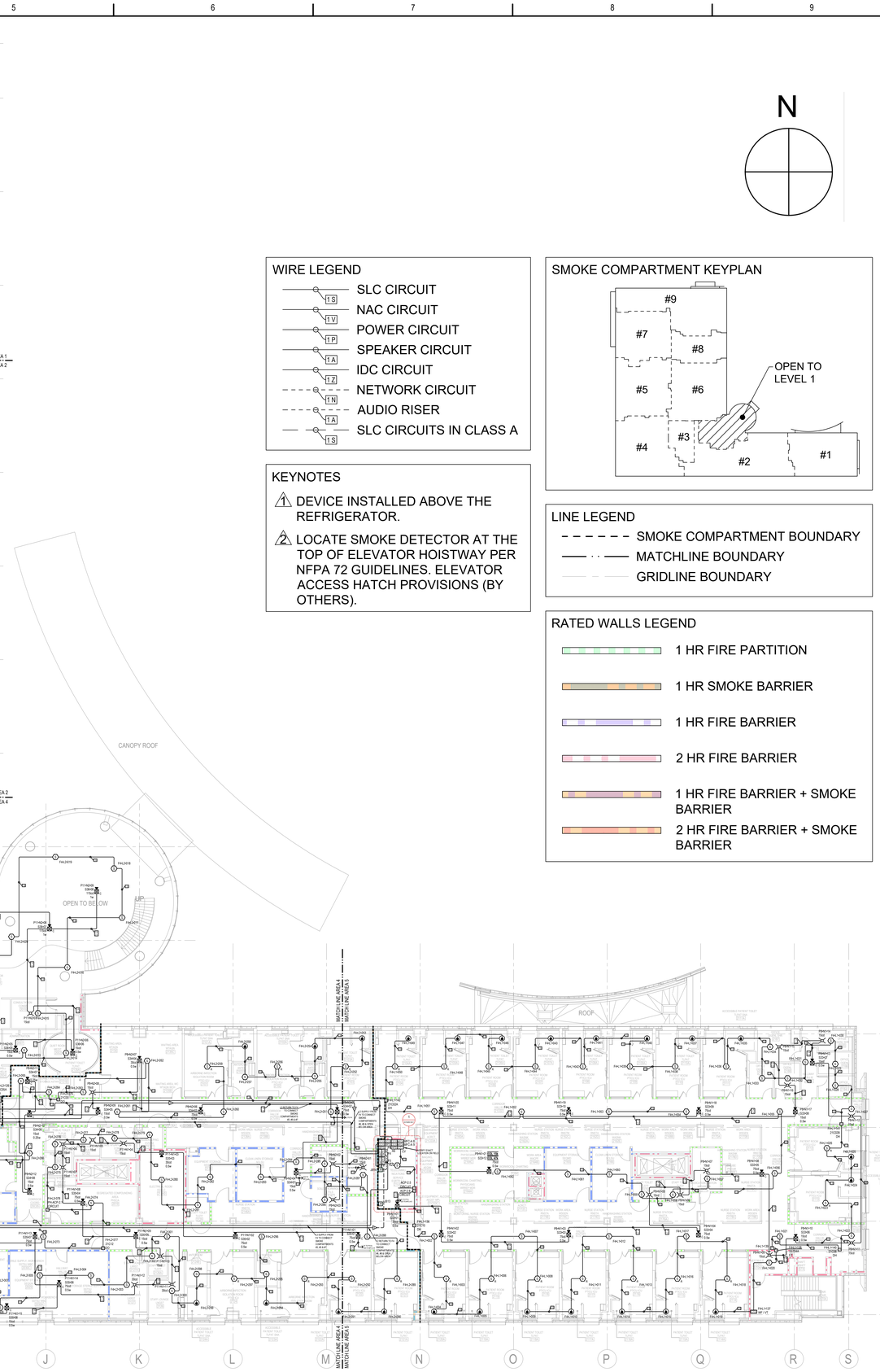
Project

Title
LEVEL 2 ISOLATORS LAYOUT

Building ID:	Floor Lev.:
Scale 1/16 = 1'-0"	KP Proj. No.
Dwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA102.A





N

WIRE LEGEND

- SLC CIRCUIT
- NAC CIRCUIT
- POWER CIRCUIT
- SPEAKER CIRCUIT
- IDC CIRCUIT
- NETWORK CIRCUIT
- AUDIO RISER
- SLC CIRCUITS IN CLASS A

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

SMOKE COMPARTMENT KEYPLAN

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

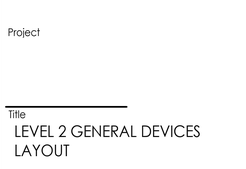
LEVEL 2 DEVICE LAYOUT

SCALE 1/16" = 1'

Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

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	Dwn.	Dsgn.	Chkd.

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INCREMENT 4 - I230010-43-04

Facility

Project

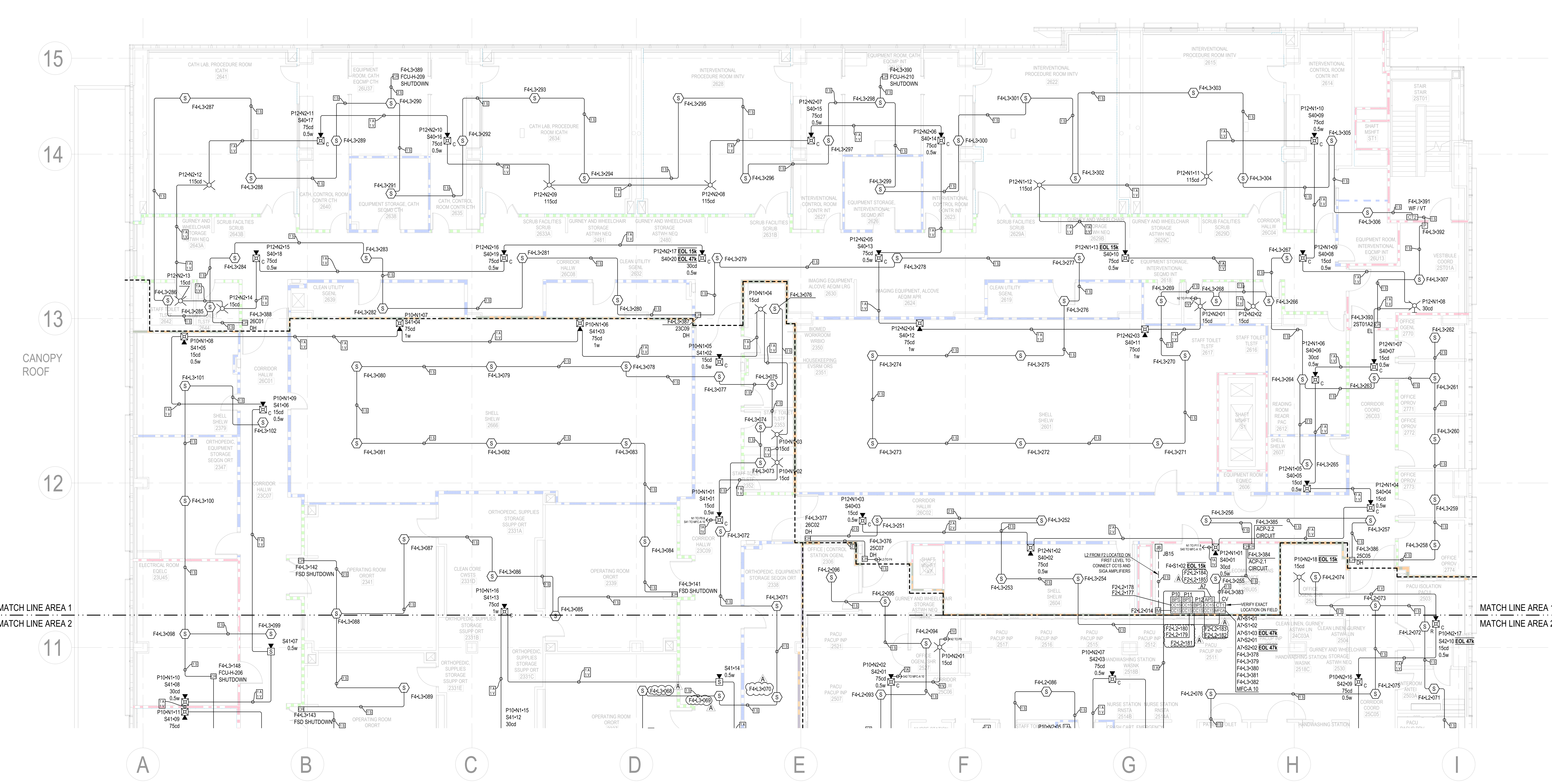
Title
LEVEL 2 GENERAL DEVICES LAYOUT

Building ID:	Floor Lev:
Scale 1/16 = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet **H-FA102.B**

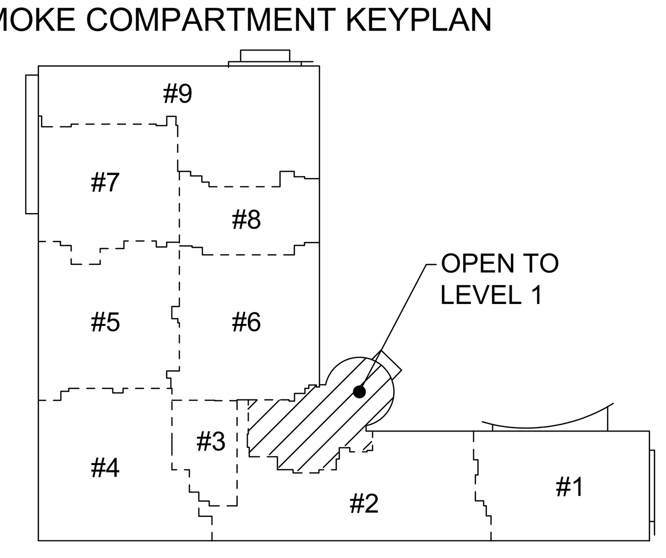
ORIGINAL SHEET - ARCH E1

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).



SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- 1S — SLC CIRCUIT
- 1V — NAC CIRCUIT
- 1P — POWER CIRCUIT
- 1A — SPEAKER CIRCUIT
- 1Z — IDC CIRCUIT
- 1N — NETWORK CIRCUIT
- 1A — AUDIO RISER
- 1S — SLC CIRCUITS IN CLASS A

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 2 - AREA 1

SCALE 1/8" = 1'

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

N

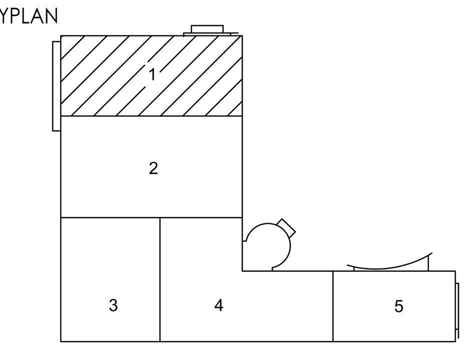
RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04
Issued	By	Appd	YYYY.MM.DD

Dwn. Dsgn. Chkd. YYYY.MM.DD

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INCREMENT 4 - I230010-43-04

Facility

Project

Title
PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 2 - AREA 1

Building ID: Floor Lev:
Scale 1/8 = 1'-0"
Drwn By LW
Chckd By VL
KP Proj. No.
Stantec No.
Sheet
H-FA202.1.B

ORIGINAL SHEET - ARCH E1

KEYNOTES

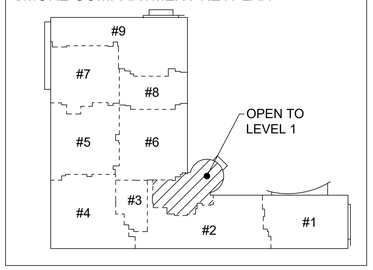
1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

MATCH LINE AREA 1 / MATCH LINE AREA 2

MATCH LINE AREA 2 / MATCH LINE AREA 3

MATCH LINE AREA 2 / MATCH LINE AREA 4

SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- SLC CIRCUIT (1S)
- NAC CIRCUIT (1V)
- POWER CIRCUIT (1P)
- SPEAKER CIRCUIT (1A)
- IDC CIRCUIT (1Z)
- NETWORK CIRCUIT (1N)
- AUDIO RISER (1A)
- SLC CIRCUITS IN CLASS A (1S)

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

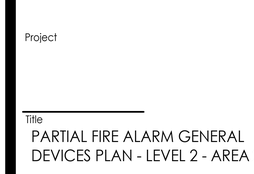
- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 2 - AREA 2

SCALE 1/8" = 1'

N

KEYPLAN



Consultant

Architect / Engineer of Record

Revision

	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued

Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Agency Approval

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INCREMENT 4 - I230010-43-04

Facility

Project

Title

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 2 - AREA 2

Building ID:	Floor Lev:
Scale 1/8 = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	

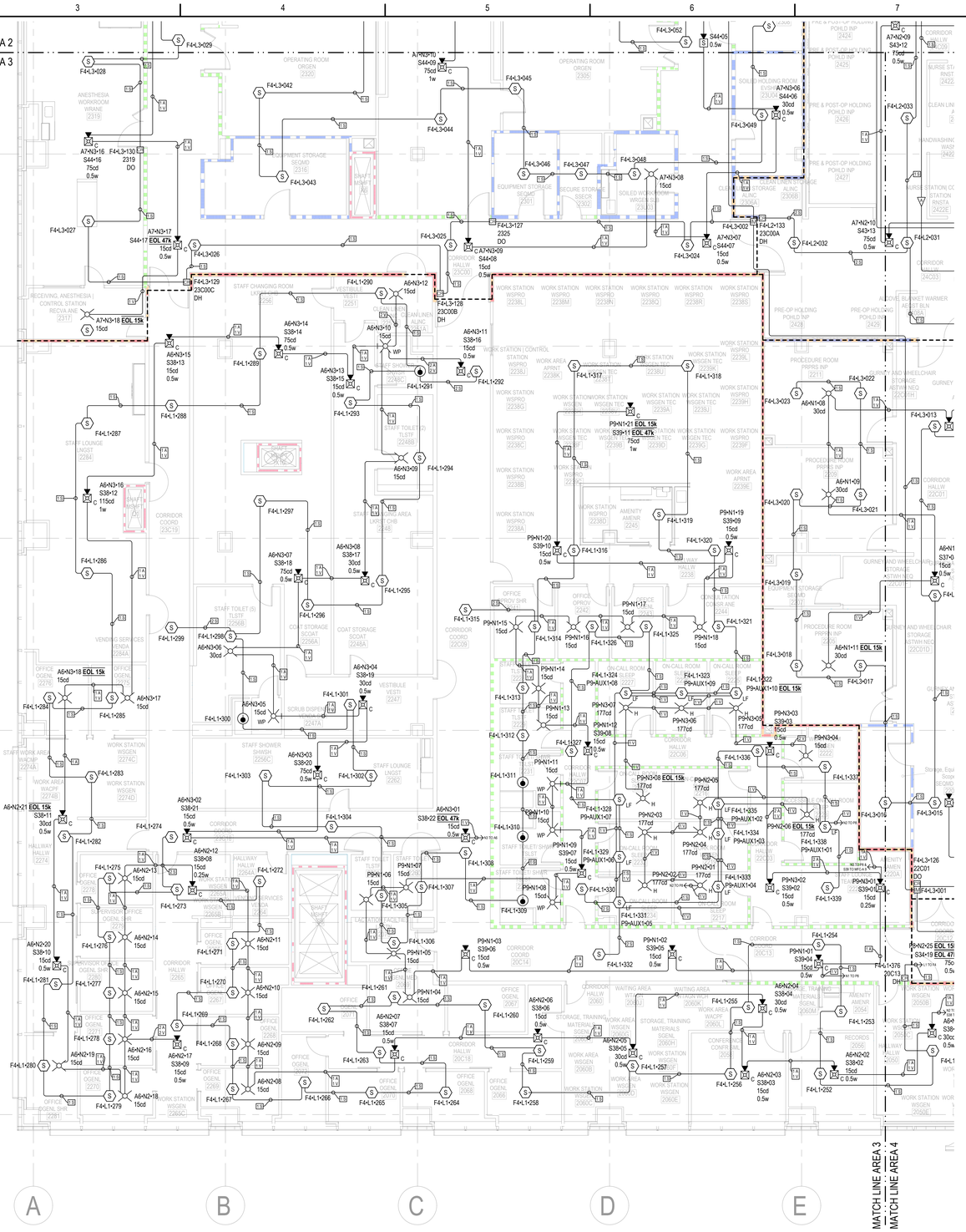
Sheet

H-FA202.2.B

ORIGINAL SHEET - ARCH E1

MATCH LINE AREA 2

MATCH LINE AREA 3



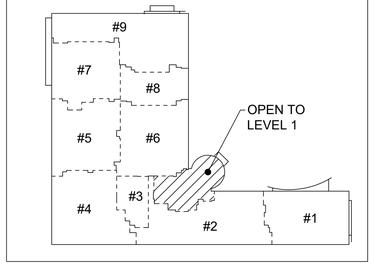
MATCH LINE AREA 3

MATCH LINE AREA 4

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- SLC CIRCUIT (1S)
- NAC CIRCUIT (1V)
- POWER CIRCUIT (1P)
- SPEAKER CIRCUIT (1A)
- IDC CIRCUIT (1Z)
- NETWORK CIRCUIT (1N)
- AUDIO RISER (1A)
- SLC CIRCUITS IN CLASS A (1S)

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 2 - AREA 3

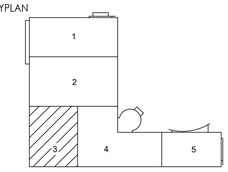
SCALE 1/8" = 1'

N

Consultant

Architect / Engineer of Record

KEYPLAN



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Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd.

Agency Approval

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INCREMENT 4 - I230010-43-04

Facility

Project

Title

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 2 - AREA 3

Building ID

Floor Lev.

Scale 1/8 = 1'-0"

Dwn By LW

Chckd By VL

KP Proj. No.

Stantec No.

Sheet

H-FA202.3B

ORIGINAL SHEET - ARCH E1

MATCH LINE AREA 2
MATCH LINE AREA 4

MATCH LINE AREA 4
MATCH LINE AREA 5

MATCH LINE AREA 3
MATCH LINE AREA 4

MATCH LINE AREA 4
MATCH LINE AREA 5

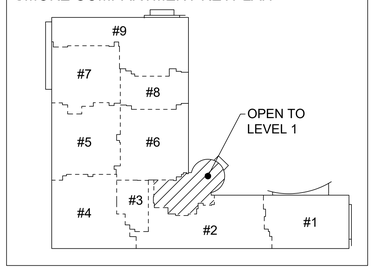
OPEN TO BELOW

UP

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- SLC CIRCUIT
- NAC CIRCUIT
- POWER CIRCUIT
- SPEAKER CIRCUIT
- IDC CIRCUIT
- NETWORK CIRCUIT
- AUDIO RISER
- SLC CIRCUITS IN CLASS A

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

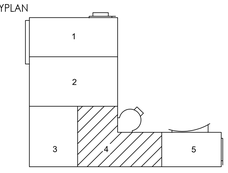
- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 2 - AREA 4

SCALE 1/8" = 1'

N

KEYPLAN



Consultant

Architect / Engineer of Record

Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04
Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Agency Approval

OSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

Project

Title

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 2 - AREA 4

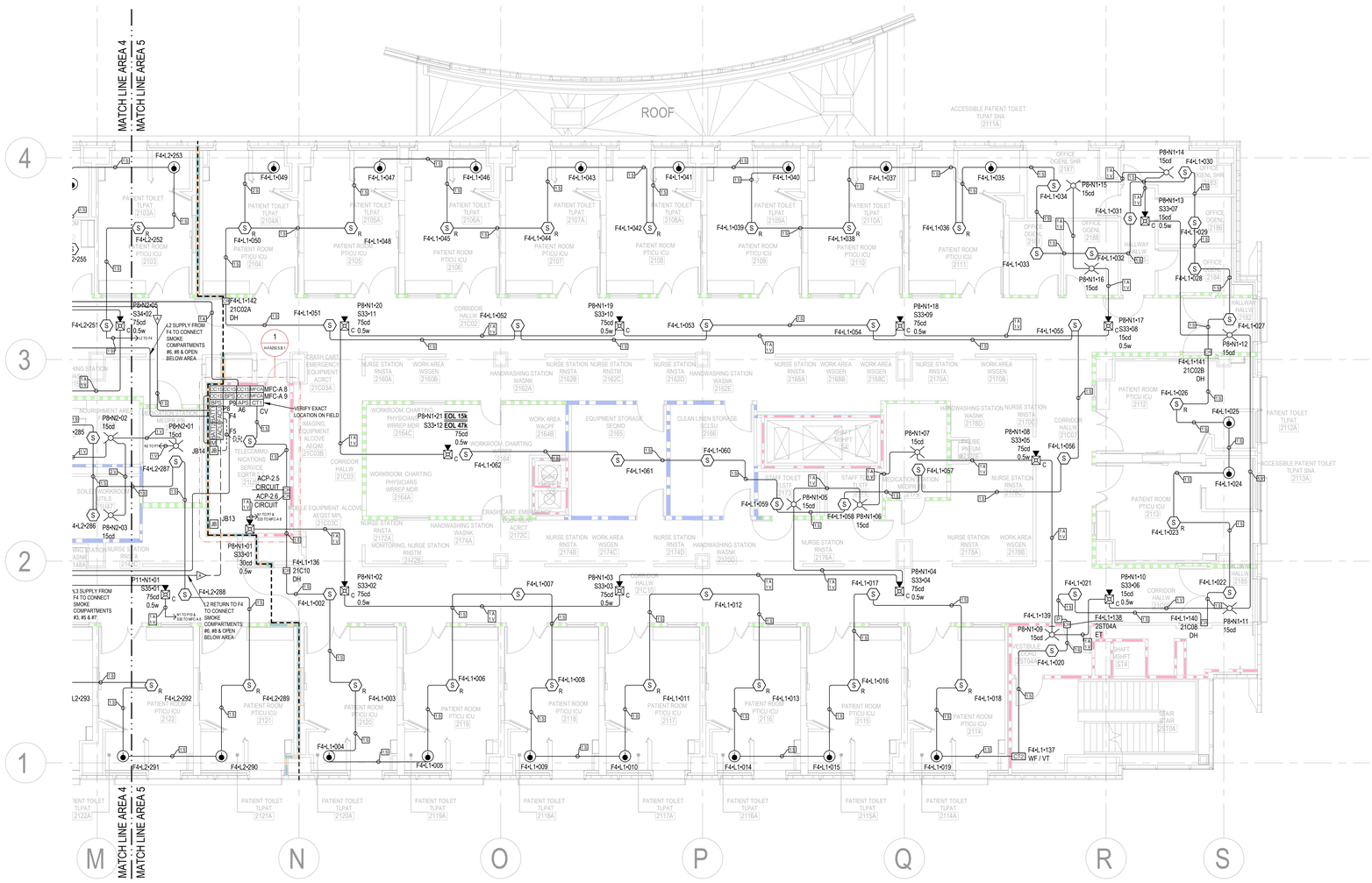
Building ID:	Floor Lev:
Scale 1/8" = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA202.4.B

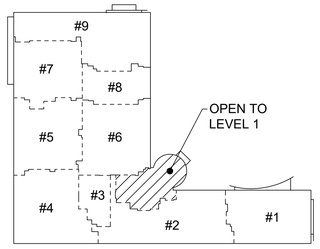
ORIGINAL SHEET - ARCH E1

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).



SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- 1S SLC CIRCUIT
- 1V NAC CIRCUIT
- 1P POWER CIRCUIT
- 1A SPEAKER CIRCUIT
- 1Z IDC CIRCUIT
- 1N NETWORK CIRCUIT
- 1N AUDIO RISER
- 1A SLC CIRCUITS IN CLASS A
- 1S

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 2 - AREA 5

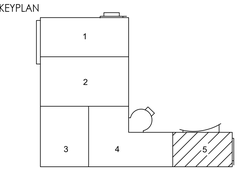
SCALE 1/8" = 1'

N

Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd.

Agency Approval

DSHPD No. I2300010-43-00
INCREMENT 4 - I2300010-43-04

Facility

Project

Title

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 2 - AREA 5

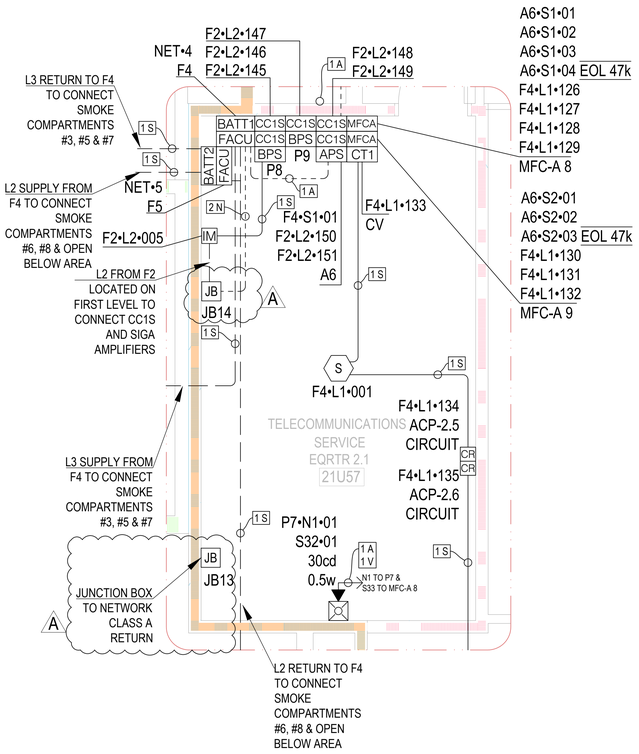
Building ID:	Floor Lev:
Scale 1/8" = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA202.5.B

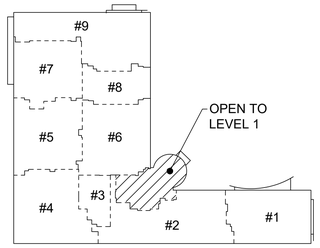
ORIGINAL SHEET - ARCH E1

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).



SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- 1 S — SLC CIRCUIT
- 1 V — NAC CIRCUIT
- 1 P — POWER CIRCUIT
- 1 A — SPEAKER CIRCUIT
- 1 Z — IDC CIRCUIT
- 1 N — NETWORK CIRCUIT
- 1 A — AUDIO RISER
- 1 S — SLC CIRCUITS IN CLASS A

TELECOMMUNICATIONS SERVICE - EQRTR2.1 - DETAIL

SCALE 1/8" = 1'

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

N

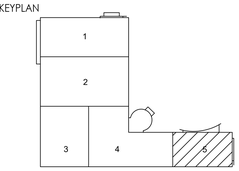
RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Agency Approval

CSHPO No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

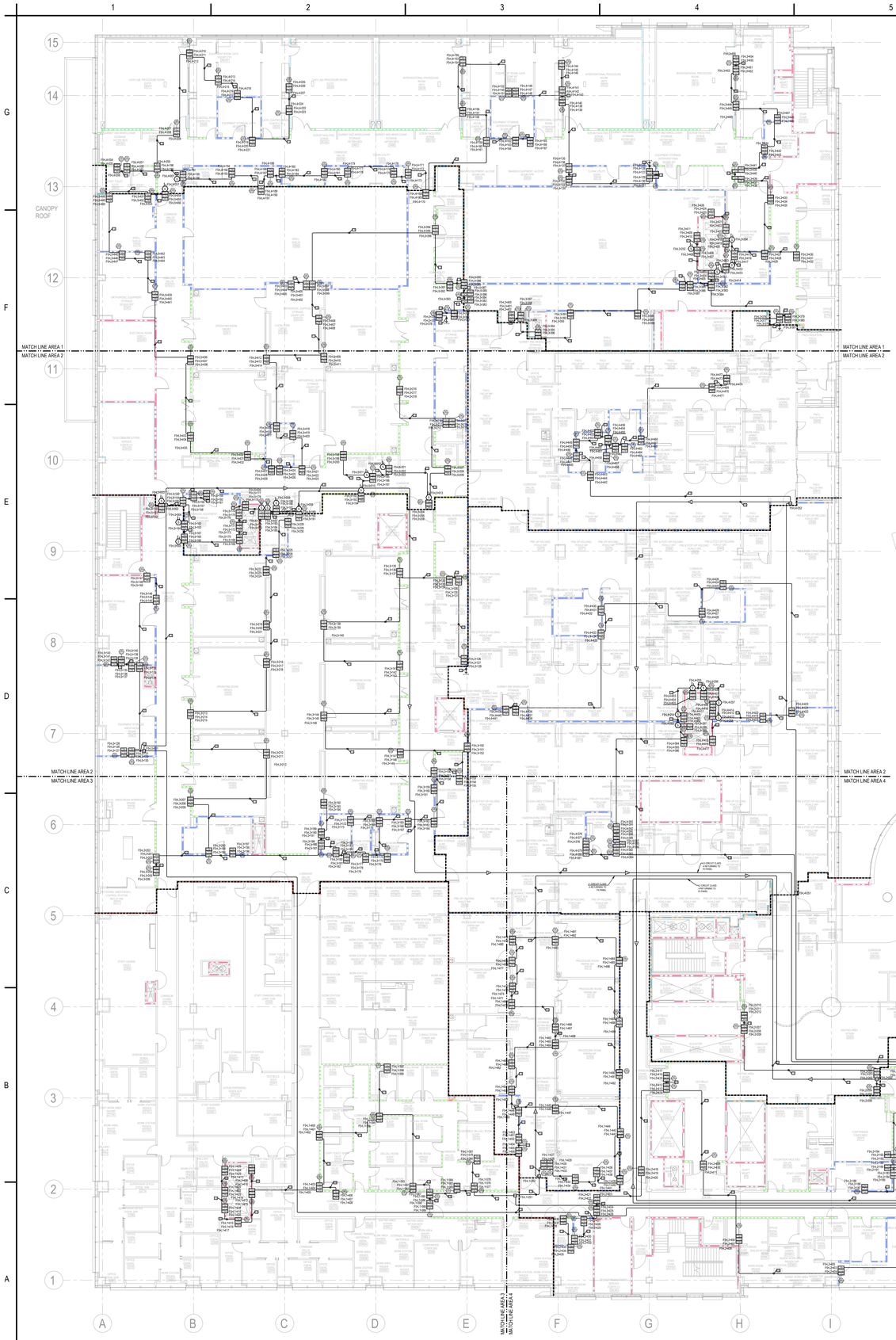
Project

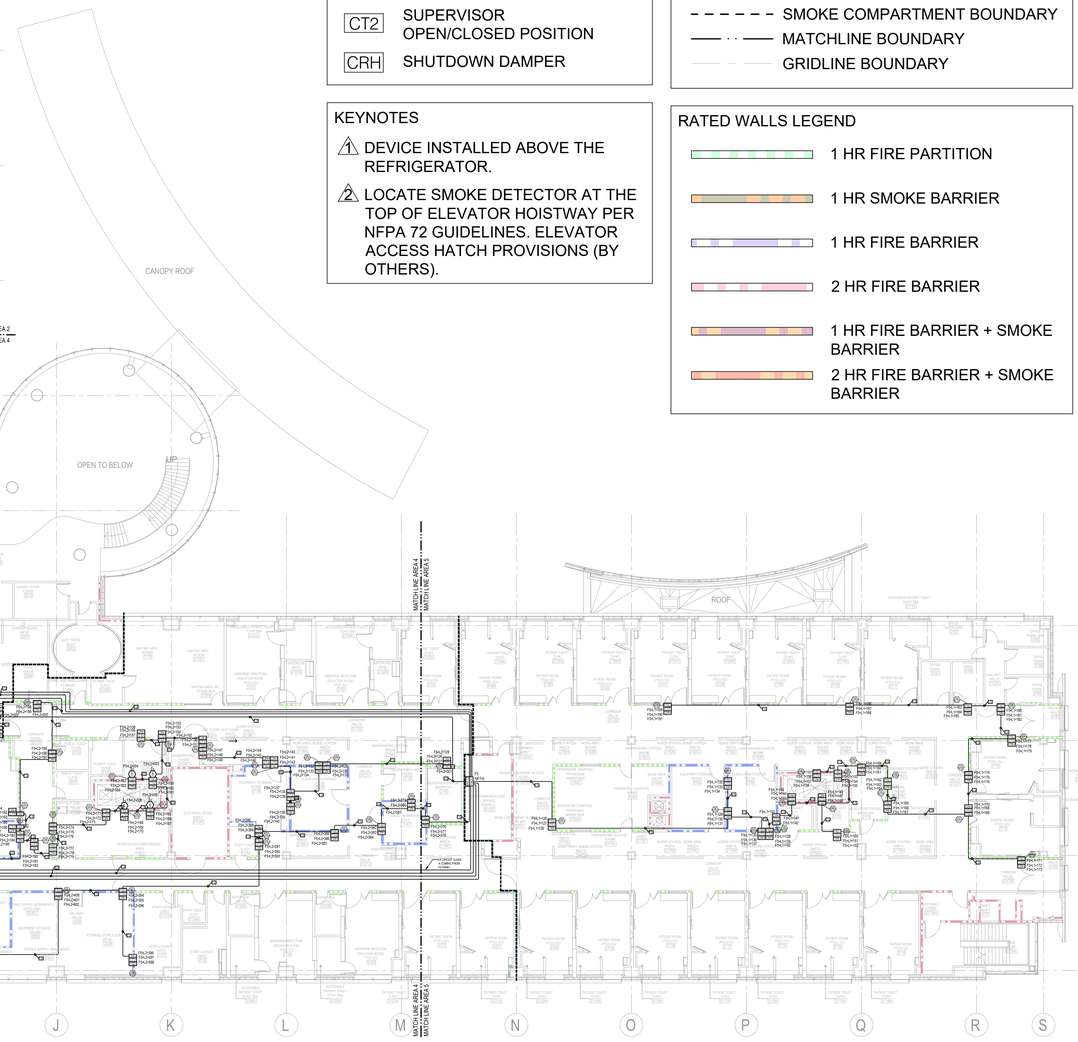
Title
TELECOMMUNICATIONS SERVICE - EQRTR2.1 - DETAIL

Building ID:		Floor Lev:
Scale	1/8" = 1'-0"	KP Proj. No.
Drwn By	LW	Stantec No.
Chckd By	VL	Sheet

H-FA202.5.B.1

ORIGINAL SHEET - ARCH E1





WIRE LEGEND

- 1 S — SLC CIRCUIT
- 1 V — NAC CIRCUIT
- 1 P — POWER CIRCUIT
- 1 A — SPEAKER CIRCUIT
- 1 Z — IDC CIRCUIT
- 1 N — NETWORK CIRCUIT
- 1 A — AUDIO RISER
- 1 S — SLC CIRCUITS IN CLASS A

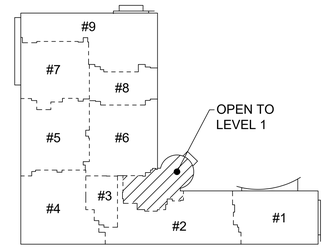
FSD LEGEND

- FSD / X — DAMPER UNIT
- CT2 — SUPERVISOR OPEN/CLOSED POSITION
- CRH — SHUTDOWN DAMPER

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

SMOKE COMPARTMENT KEYPLAN



LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

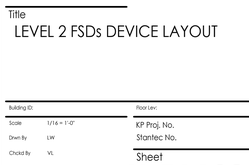
LEVEL 2 FSDs DEVICES LAYOUT

SCALE 1/16" = 1'

Consultant

Architect / Engineer of Record

KEYPLAN



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Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Agency Approval

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INCREMENT 4 - I230010-43-04

Facility

Project

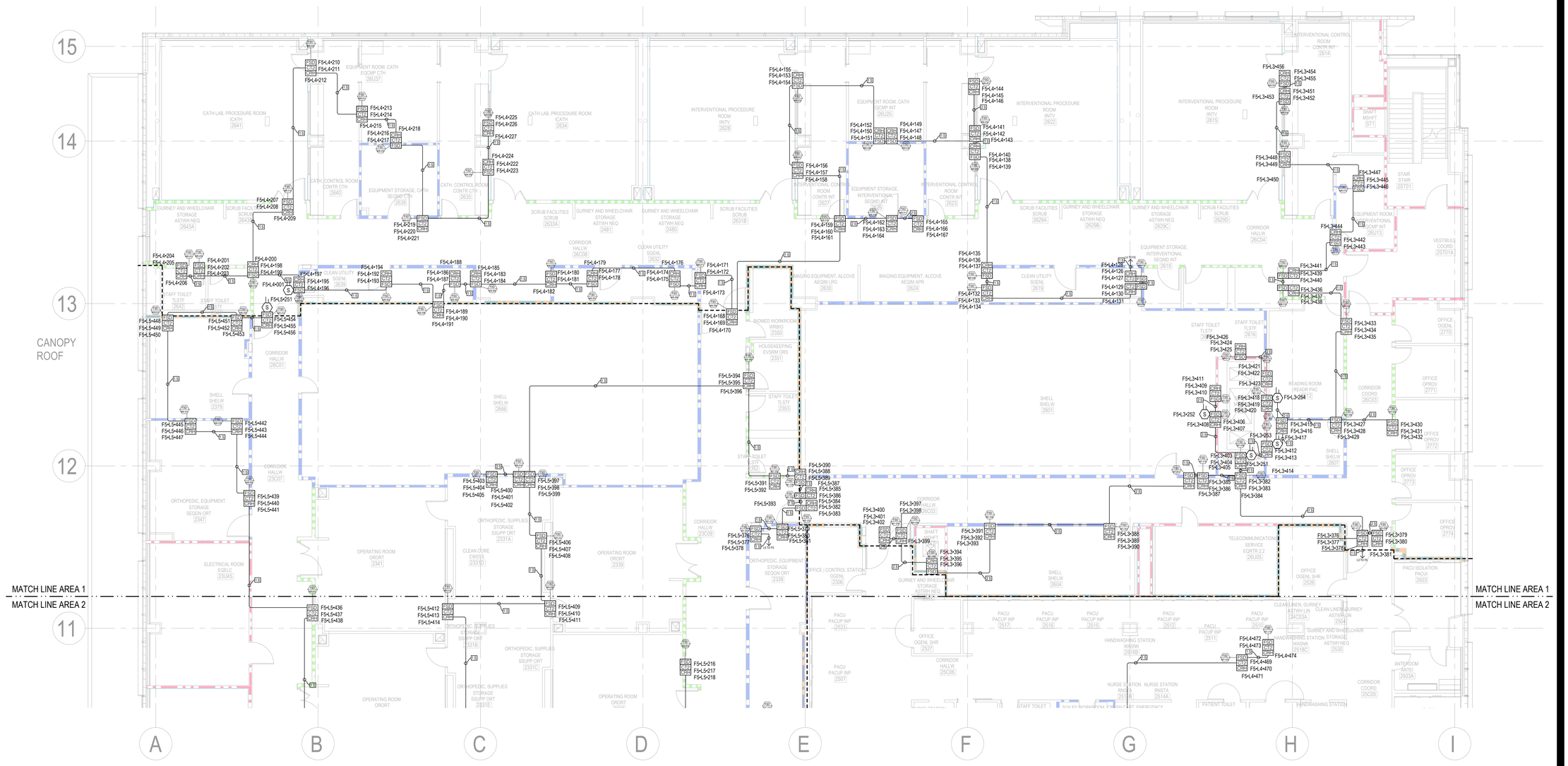
Title
LEVEL 2 FSDs DEVICE LAYOUT

Building ID:		Floor Lev:	
Scale	1/16 = 1'-0"	KP Proj. No.	
Drwn By	LW	Stantec No.	
Chckd By	VL	Sheet	H-FA102.C

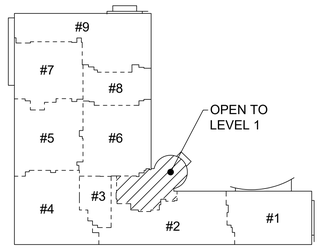
ORIGINAL SHEET - ARCH E1

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).



SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- SLC CIRCUIT (1S)
- NAC CIRCUIT (1V)
- POWER CIRCUIT (1P)
- SPEAKER CIRCUIT (1A)
- IDC CIRCUIT (1Z)
- NETWORK CIRCUIT (1N)
- AUDIO RISER (1A)
- SLC CIRCUITS IN CLASS A (1S)

PARTIAL FIRE ALARM FSDs DEVICE PLAN - LEVEL 2 - AREA 1

SCALE 1/8" = 1'

N

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

FSD LEGEND

- FSD X — DAMPER UNIT
- CT2 — SUPERVISOR OPEN/ CLOSED POSITION
- CRH — SHUTDOWN DAMPER

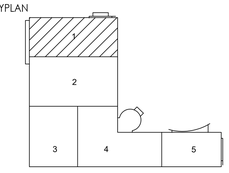
RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

Consultant

Architect / Engineer of Record

KEYPLAN



Revision

	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

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Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Agency Approval

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INCREMENT 4 - I230010-43-04

Facility

Project

Title

PARTIAL FIRE ALARM FSDs DEVICE PLAN - LEVEL 2 - AREA 1

Building ID	Floor Lev:
Scale 1/8" = 1'-0"	KP Proj. No.
Dwn By LW	Stantec No.
Chckd By VL	

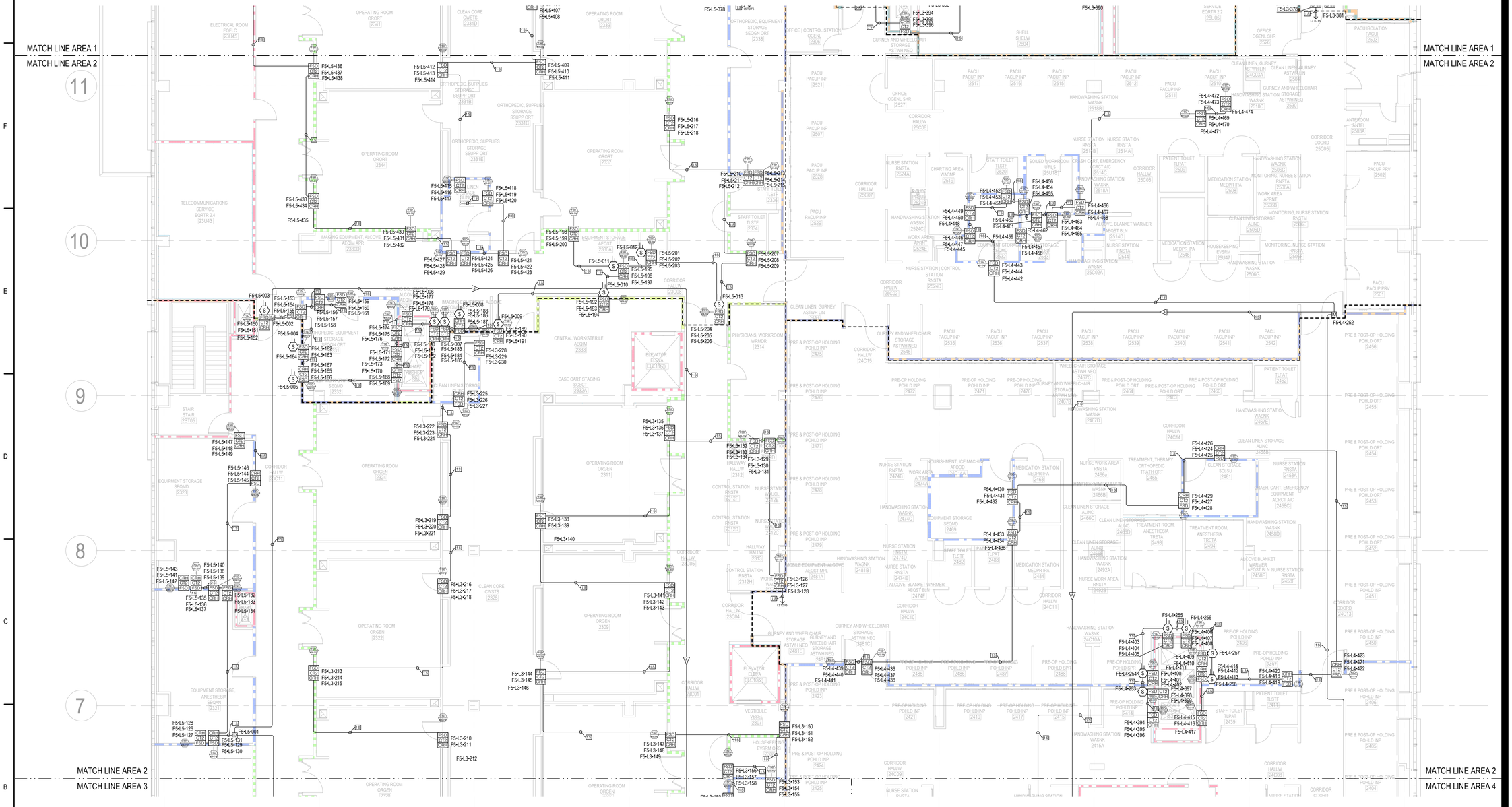
Sheet

H-FA202.1.C

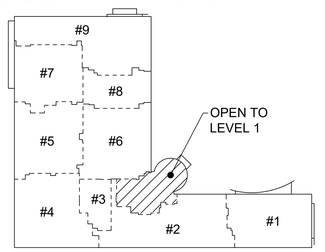
ORIGINAL SHEET - ARCH E1

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).



SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- SLC CIRCUIT
- NAC CIRCUIT
- POWER CIRCUIT
- SPEAKER CIRCUIT
- IDC CIRCUIT
- NETWORK CIRCUIT
- AUDIO RISER
- SLC CIRCUITS IN CLASS A

PARTIAL FIRE ALARM FSDs DEVICE PLAN - LEVEL 2 - AREA 2

SCALE 1/8" = 1'

N

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

FSD LEGEND

- DAMPER UNIT
- CT2 SUPERVISOR OPEN/ CLOSED POSITION
- CRH SHUTDOWN DAMPER

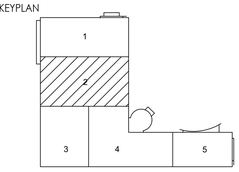
RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd.

Agency Approval

OSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

Project

Title

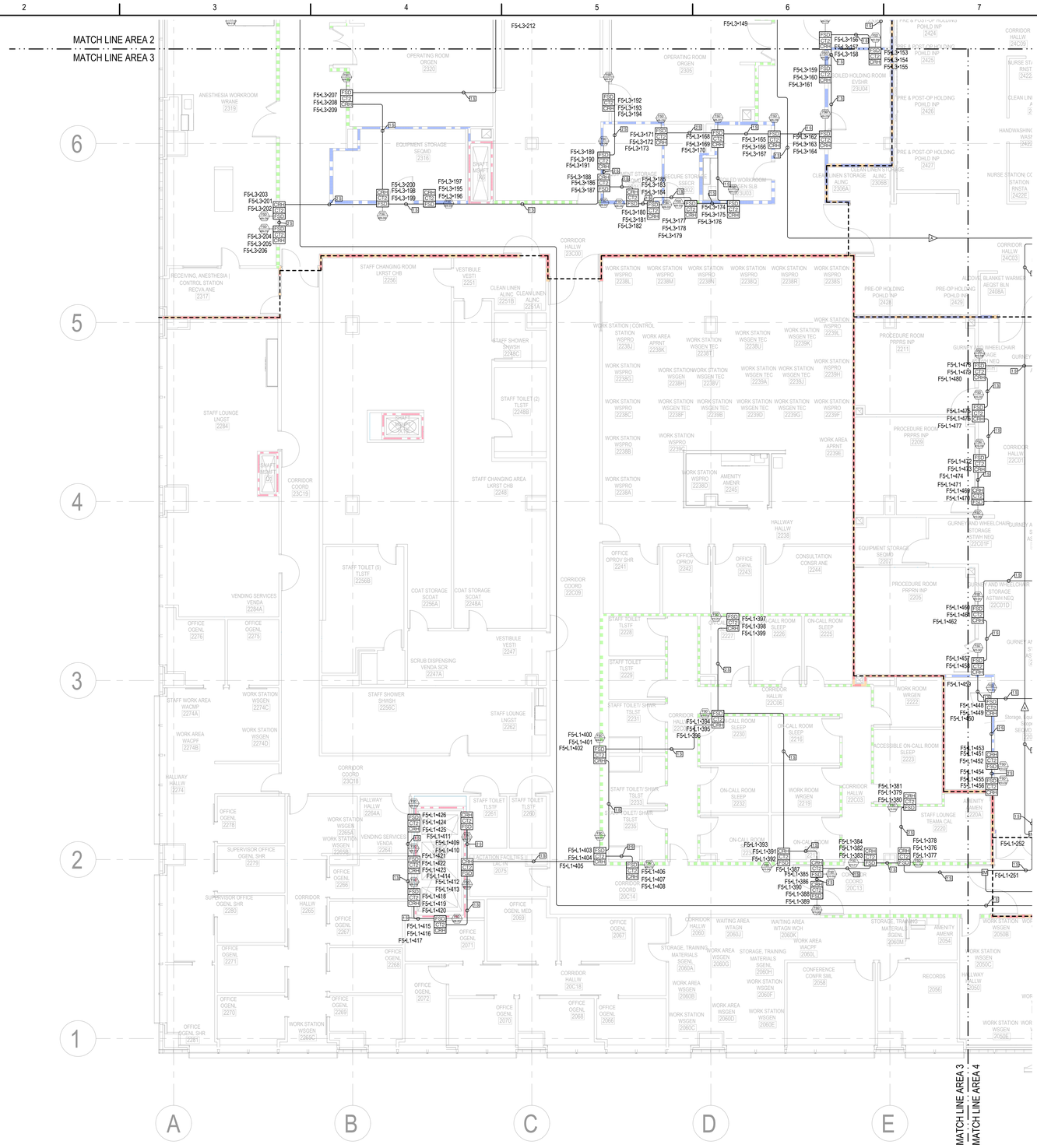
PARTIAL FIRE ALARM FSDs DEVICE PLAN - LEVEL 2 - AREA 2

Building ID:	Floor Lev:
Scale 1/8" = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	

Sheet

H-FA202.2.C

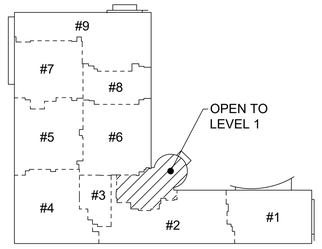
ORIGINAL SHEET - ARCH E1



KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- SLC CIRCUIT (1S)
- NAC CIRCUIT (1V)
- POWER CIRCUIT (1P)
- SPEAKER CIRCUIT (1A)
- IDC CIRCUIT (1Z)
- NETWORK CIRCUIT (1N)
- AUDIO RISER (1A)
- SLC CIRCUITS IN CLASS A (1S)

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

PARTIAL FIRE ALARM FSDs DEVICE PLAN - LEVEL 2 - AREA 3

SCALE 1/8" = 1'

N

FSD LEGEND

- FSD X — DAMPER UNIT
- CT2 — SUPERVISOR OPEN/ CLOSED POSITION
- CRH — SHUTDOWN DAMPER

Consultant

Architect / Engineer of Record

KEYPLAN

Revision

	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued

	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Agency Approval

OBHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

Project

Title

PARTIAL FIRE ALARM FSDs DEVICE PLAN - LEVEL 2 - AREA 3

Building ID:	Floor Lev:
Scale 1/8" = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	

Sheet

H-FA202.3.C

ORIGINAL SHEET - ARCH E1

MATCH LINE AREA 2
MATCH LINE AREA 4

MATCH LINE AREA 4
MATCH LINE AREA 5

MATCH LINE AREA 3
MATCH LINE AREA 4

MATCH LINE AREA 4
MATCH LINE AREA 5

OPEN TO BELOW

UP

L5 CIRCUIT CLASS A RETURNING TO F5 PANEL

L1 CIRCUIT CLASS A RETURNING TO F5 PANEL

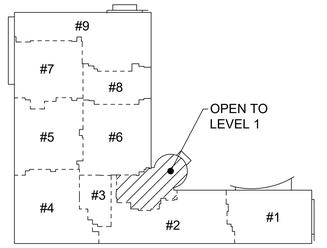
L2 CIRCUIT CLASS A RETURNING TO F5 PANEL

L4 CIRCUIT CLA
A COMING FRO
F5 PANEL

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- SLC CIRCUIT (1S)
- NAC CIRCUIT (1V)
- POWER CIRCUIT (1P)
- SPEAKER CIRCUIT (1A)
- IDC CIRCUIT (1Z)
- NETWORK CIRCUIT (1N)
- AUDIO RISER (1A)
- SLC CIRCUITS IN CLASS A (1S)

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

FSD LEGEND

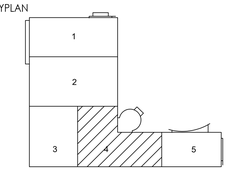
- FSD X — DAMPER UNIT
- CT2 — SUPERVISOR OPEN/ CLOSED POSITION
- CRH — SHUTDOWN DAMPER

PARTIAL FIRE ALARM FSDs DEVICE PLAN - LEVEL 2 - AREA 4

SCALE 1/8" = 1'

N

KEYPLAN



Consultant

Architect / Engineer of Record

Revision

	By	Appd	YYYY.MM.DD

INCREMENT 4 SEG 3B SUBMISSION #1

Issued

	By	Appd	2025.03.04
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Agency Approval

OSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

Project

Title

PARTIAL FIRE ALARM FSDs DEVICE PLAN - LEVEL 2 - AREA 4

Building ID: Floor Lev:
Scale 1/8 = 1'-0"
Drwn By LW
Chckd By VL
KP Proj. No.
Stantec No.

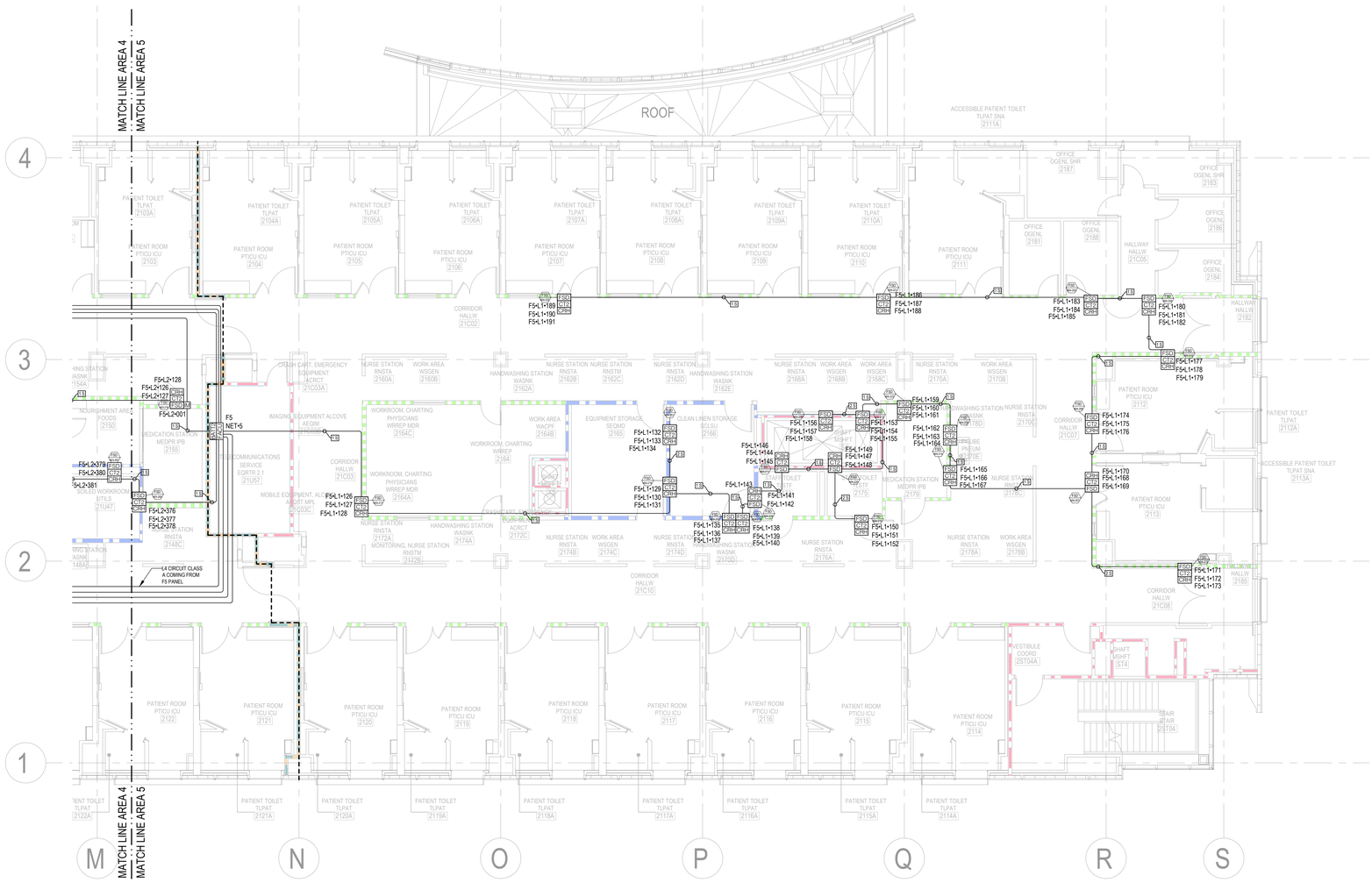
Sheet

H-FA202.4.C

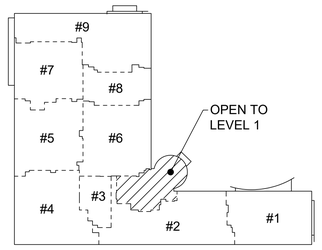
ORIGINAL SHEET - ARCH E1

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).



SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- SLC CIRCUIT (1S)
- NAC CIRCUIT (1V)
- POWER CIRCUIT (1P)
- SPEAKER CIRCUIT (1A)
- IDC CIRCUIT (1Z)
- NETWORK CIRCUIT (1N)
- AUDIO RISER (1A)
- SLC CIRCUITS IN CLASS A (1S)

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

FSD LEGEND

- FSD X — DAMPER UNIT
- CT2 — SUPERVISOR OPEN/ CLOSED POSITION
- CRH — SHUTDOWN DAMPER

PARTIAL FIRE ALARM FSDs DEVICE PLAN - LEVEL 2 - AREA 5

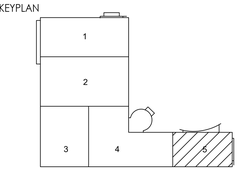
SCALE 1/8" = 1'

N

Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued

Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Agency Approval

CDHPD No. I2300103-43-00
INCREMENT 4 - I2300103-43-04

Facility

Project

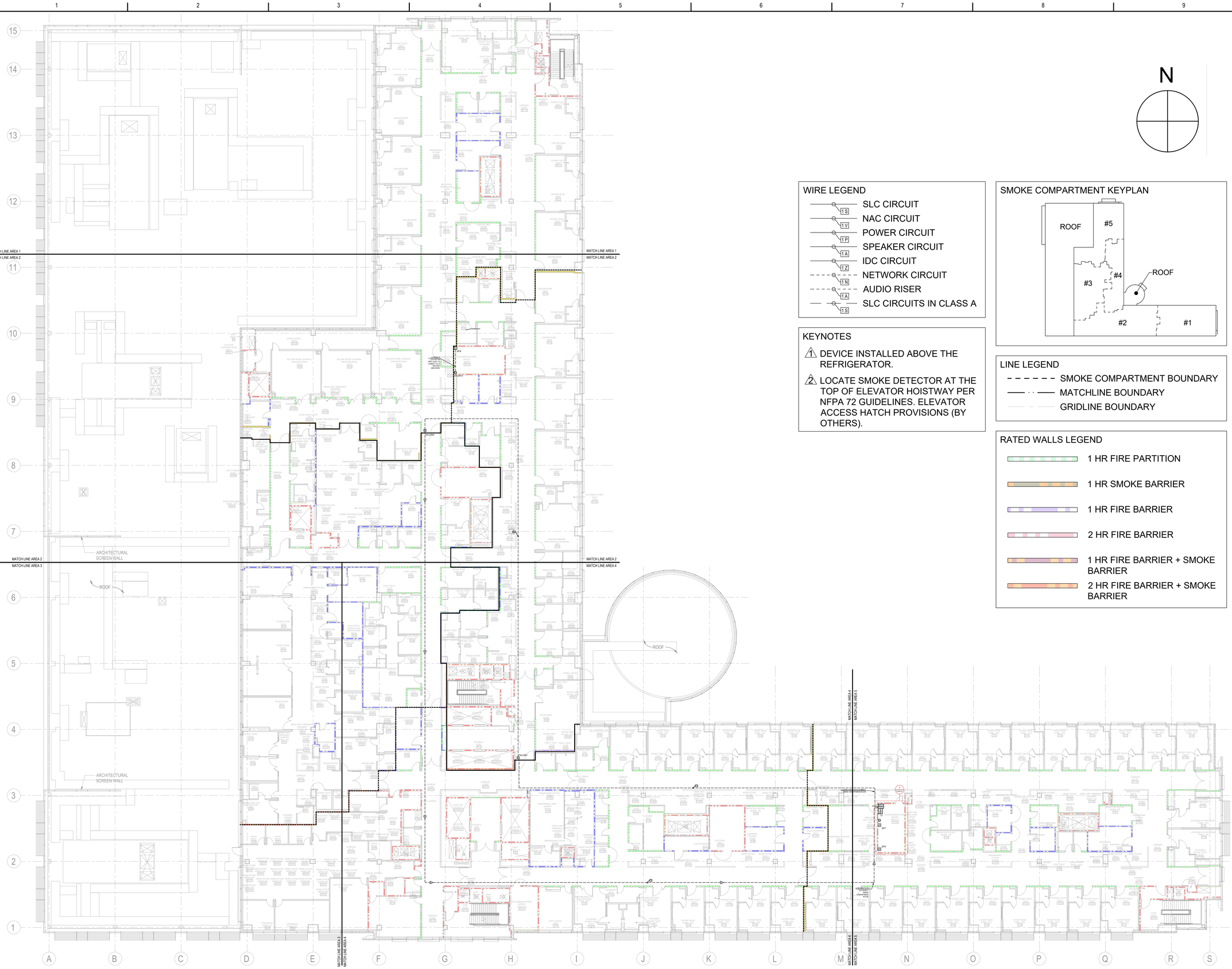
Title

PARTIAL FIRE ALARM FSDs DEVICE PLAN - LEVEL 2 - AREA 5

Building ID:	Floor Lev:
Scale 1/8" = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA202.5.C

ORIGINAL SHEET - ARCH E1



WIRE LEGEND

- SLC CIRCUIT (1 S)
- NAC CIRCUIT (1 V)
- POWER CIRCUIT (1 P)
- SPEAKER CIRCUIT (1 A)
- IDC CIRCUIT (1 Z)
- NETWORK CIRCUIT (1 N)
- AUDIO RISER (1 A)
- SLC CIRCUITS IN CLASS A (1 S)

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

SMOKE COMPARTMENT KEYPLAN

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

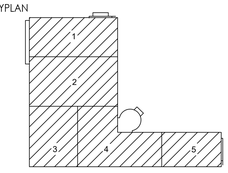
LEVEL 3 ISOLATORS LAYOUT

SCALE 1/16" = 1'

Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd.

Agency Approval

DSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

Project

Title
LEVEL 3 ISOLATORS LAYOUT

Building ID:		Floor Lev:	
Scale	1/8 = 1'-0"	KP Proj. No.	
Drwn By	LW	Stantec No.	
Chckd By	VL	Sheet	**H-FA103.A**

ORIGINAL SHEET - ARCH E1

N

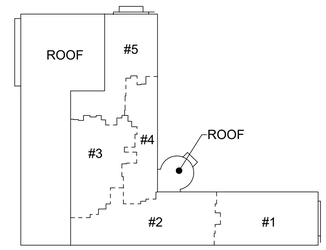
WIRE LEGEND

- SLC CIRCUIT (1 S)
- NAC CIRCUIT (1 V)
- POWER CIRCUIT (1 P)
- SPEAKER CIRCUIT (1 A)
- IDC CIRCUIT (1 Z)
- NETWORK CIRCUIT (1 N)
- AUDIO RISER (1 A)
- SLC CIRCUITS IN CLASS A (1 S)

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

SMOKE COMPARTMENT KEYPLAN



LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

LEVEL 3 GENERAL DEVICES LAYOUT

SCALE 1/16" = 1'

Consultant

Architect / Engineer of Record

KEYPLAN

Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Agency Approval

OSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

Project

Title

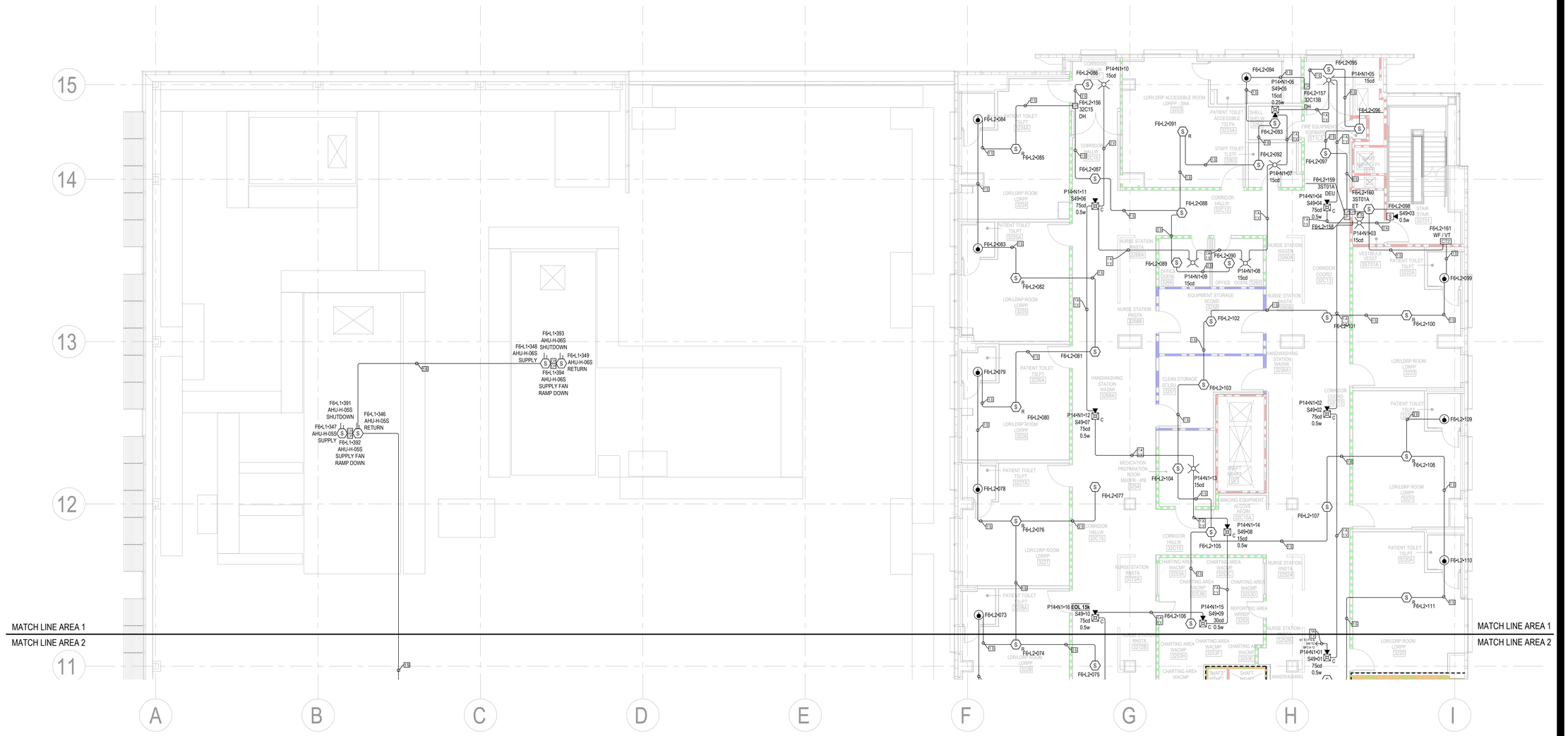
LEVEL 3 GENERAL DEVICES LAYOUT

Building ID	Floor Lev.
Scale 1/8 = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet **H-FA103.B**

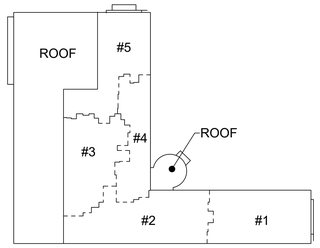
ORIGINAL SHEET - ARCH E1

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).



SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- SLC CIRCUIT
- NAC CIRCUIT
- POWER CIRCUIT
- SPEAKER CIRCUIT
- IDC CIRCUIT
- NETWORK CIRCUIT
- AUDIO RISER
- SLC CIRCUITS IN CLASS A

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

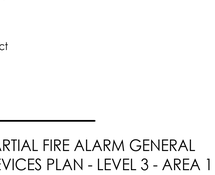
- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 3 - AREA 1

SCALE 1/8" = 1'

N

KEYPLAN



Consultant

Architect / Engineer of Record

Revision

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Agency Approval

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INCREMENT 4 - I230010-43-04

Facility

Project

Title

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 3 - AREA 1

Building ID	Floor Lev.
Scale 1/8" = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	

Sheet

H-FA203.1.B

ORIGINAL SHEET - ARCH E1

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

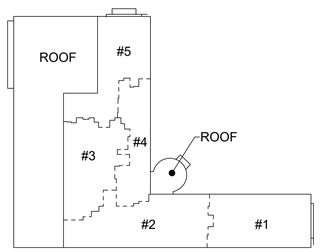
MATCH LINE AREA 1
MATCH LINE AREA 2

MATCH LINE AREA 2
MATCH LINE AREA 3

MATCH LINE AREA 2
MATCH LINE AREA 4

ARCHITECTURAL SCREEN WALL

SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- SLC CIRCUIT (1S)
- NAC CIRCUIT (1V)
- POWER CIRCUIT (1P)
- SPEAKER CIRCUIT (1A)
- IDC CIRCUIT (1Z)
- NETWORK CIRCUIT (1N)
- AUDIO RISER (1A)
- SLC CIRCUITS IN CLASS A (1S)

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 3 - AREA 2

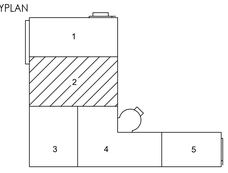
SCALE 1/8" = 1'

N

Consultant

Architect / Engineer of Record

KEYPLAN



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	Dwn.	Dsgn.	Chkd.

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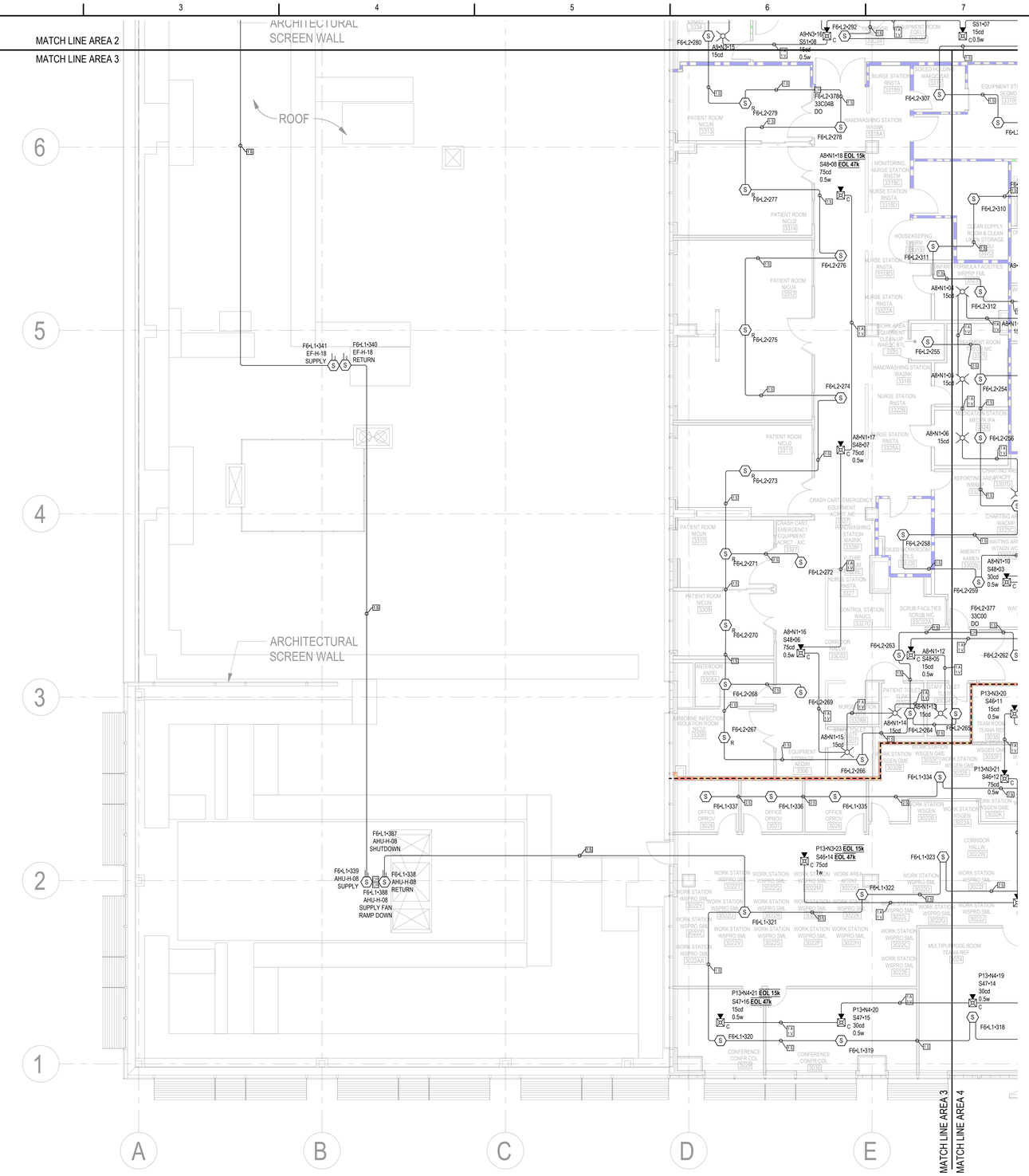
Facility

Project

Title
PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 3 - AREA 2

Building ID:	Floor Lev:
Scale 1/8" = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet H-FA203.2.B

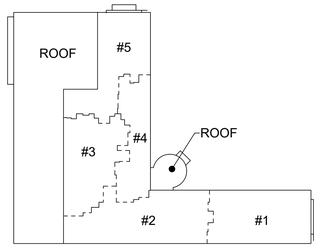
ORIGINAL SHEET - ARCH E1



KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- SLC CIRCUIT
- NAC CIRCUIT
- POWER CIRCUIT
- SPEAKER CIRCUIT
- IDC CIRCUIT
- NETWORK CIRCUIT
- AUDIO RISER
- SLC CIRCUITS IN CLASS A

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

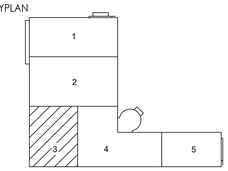
- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 3 - AREA 3

SCALE 1/8" = 1'

N

KEYPLAN



Consultant

Architect / Engineer of Record

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Facility

Project

Title

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 3 - AREA 3

Building ID:	Floor Lev:
Scale 1/8 = 1'-0"	KP Proj. No.
Dwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA203.3.B

ORIGINAL SHEET - ARCH E1

MATCH LINE AREA 2

MATCH LINE AREA 4

ROOF

MATCH LINE AREA 4

MATCH LINE AREA 5

MATCH LINE AREA 3

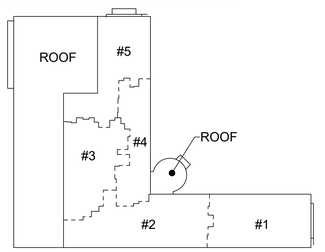
MATCH LINE AREA 4

MATCH LINE AREA 5

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- SLC CIRCUIT
- NAC CIRCUIT
- POWER CIRCUIT
- SPEAKER CIRCUIT
- IDC CIRCUIT
- NETWORK CIRCUIT
- AUDIO RISER
- SLC CIRCUITS IN CLASS A

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

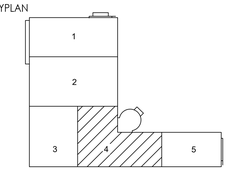
- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 3 - AREA 4

SCALE 1/8" = 1'

N

KEYPLAN



Consultant

Architect / Engineer of Record

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INCREMENT 4 SEQ 3B SUBMISSION #1			2025.03.04
Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

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Facility

Project

Title

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 3 - AREA 4

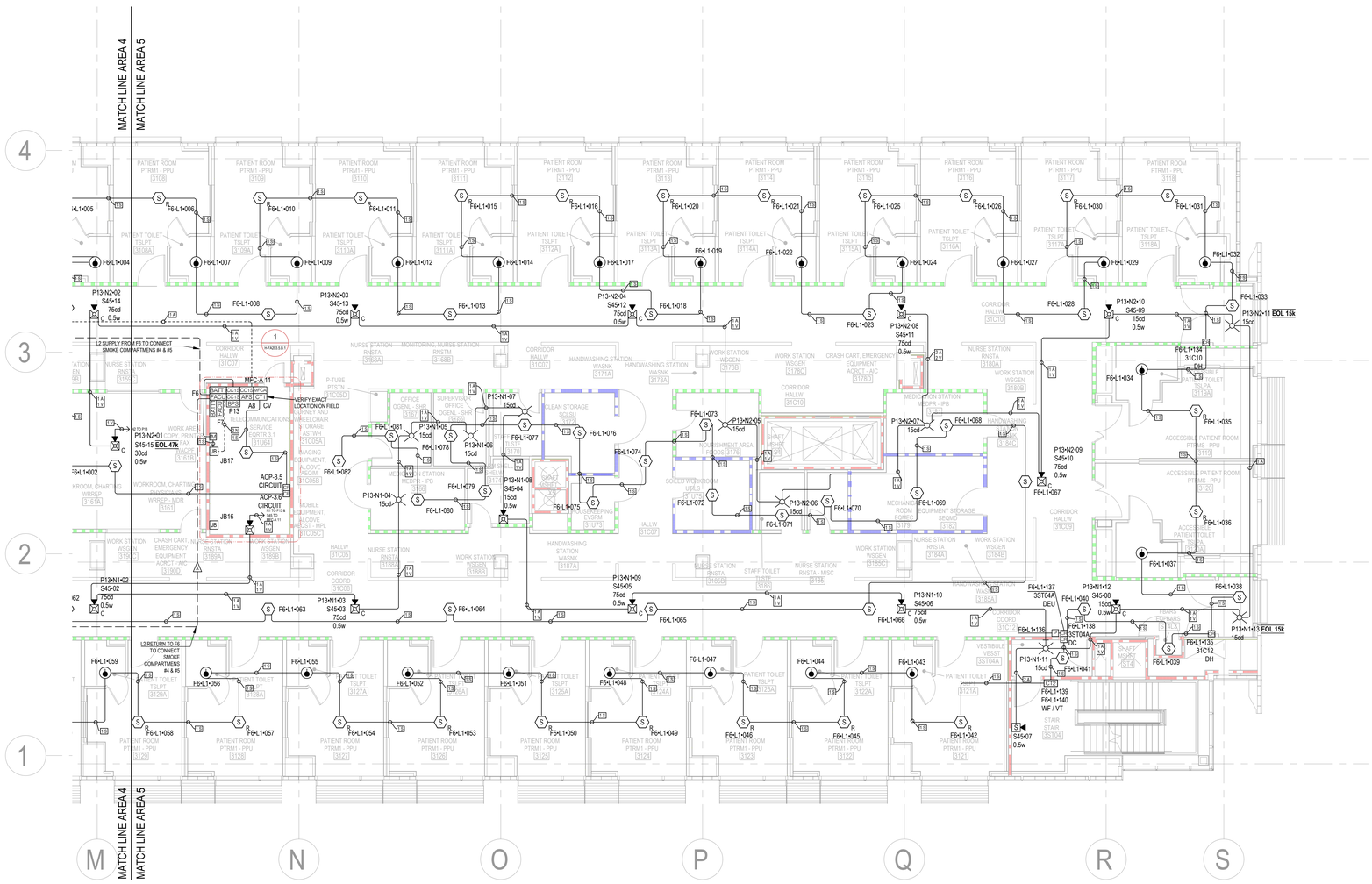
Building ID.	Floor Lev.
Scale 1/8 = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA203.4.B

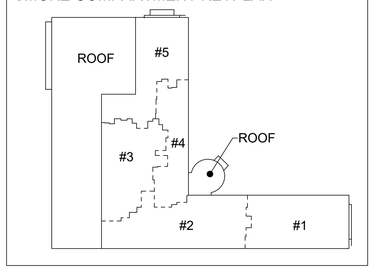
ORIGINAL SHEET - ARCH E1

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).



SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- 1 S — SLC CIRCUIT
- 1 V — NAC CIRCUIT
- 1 P — POWER CIRCUIT
- 1 A — SPEAKER CIRCUIT
- 1 A — IDC CIRCUIT
- 1 Z — NETWORK CIRCUIT
- 1 N — AUDIO RISER
- 1 A — SLC CIRCUITS IN CLASS A
- 1 S — SLC CIRCUITS IN CLASS A

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 3 - AREA 5

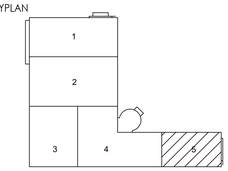
SCALE 1/8" = 1'

N

Consultant

Architect / Engineer of Record

KEYPLAN



Revision

	By	Appd	YYYY.MM.DD

INCREMENT 4 SEG 3B SUBMISSION #1 — 2025.03.04

Issued

	By	Appd	YYYY.MM.DD

Dwn.	Dsgn.	Chkd.

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Facility

Project

Title

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 3 - AREA 5

Building ID:		Floor Lev:
Scale	1/8" = 1'-0"	KP Proj. No.
Dwn By	LW	Stantec No.
Chckd By	VL	

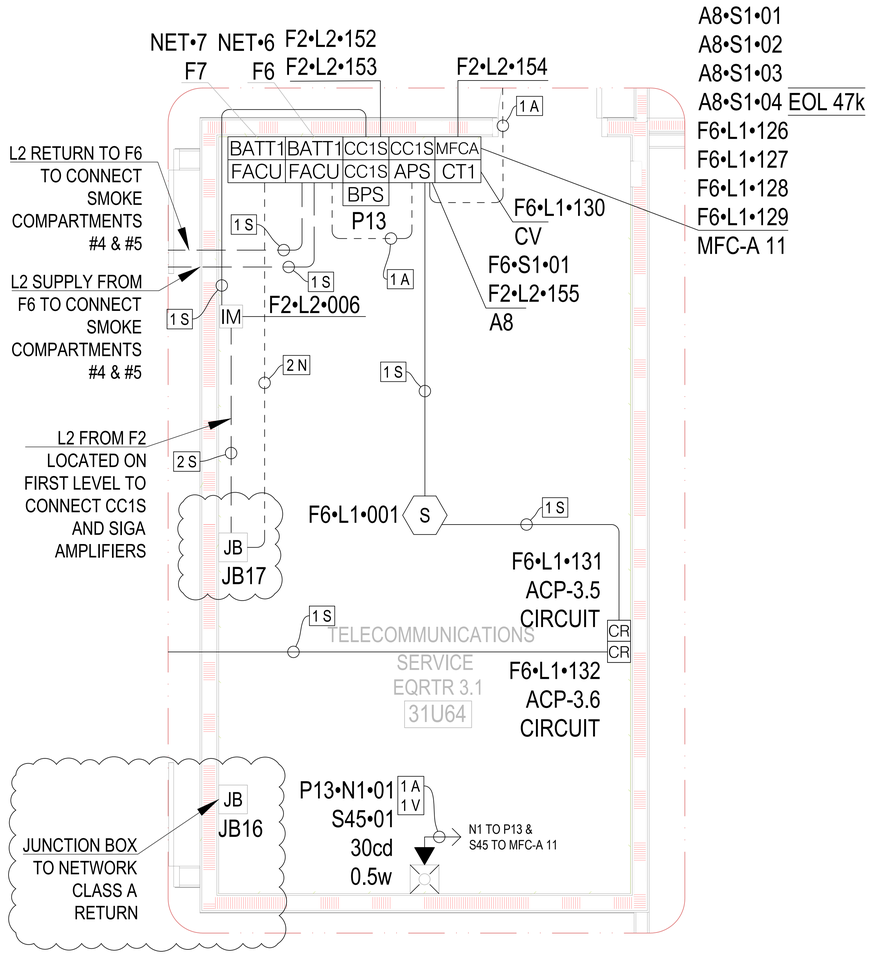
Sheet

H-FA203.5.B

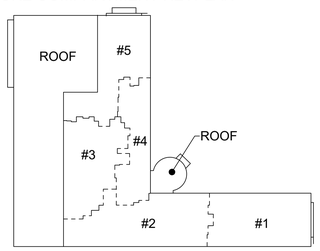
ORIGINAL SHEET - ARCH E1

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).



SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- 1 S — SLC CIRCUIT
- 1 V — NAC CIRCUIT
- 1 P — POWER CIRCUIT
- 1 A — SPEAKER CIRCUIT
- 1 Z — IDC CIRCUIT
- 1 N — NETWORK CIRCUIT
- 1 A — AUDIO RISER
- 1 S — SLC CIRCUITS IN CLASS A

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

N

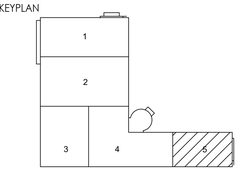
TELECOMMUNICTIONS SERVICE - EQRTR3.1 - DETAIL

SCALE 3/8" = 1'

Consultant

Architect / Engineer of Record

KEYPLAN



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	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Agency Approval

OSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

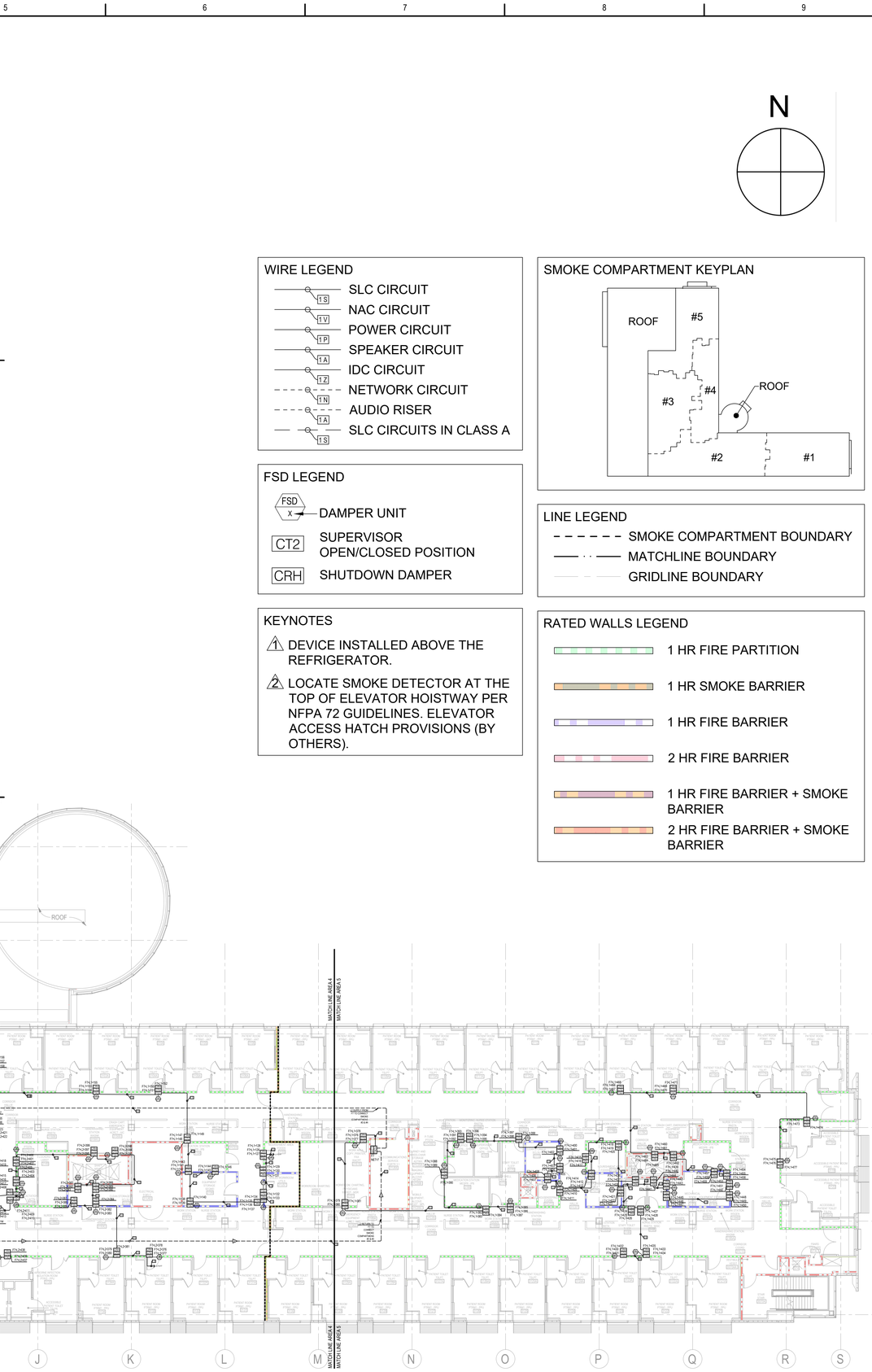
Project

Title
TELECOMMUNICATIONS SERVICE - EQRTR3.1 - DETAIL

Building ID:	Floor Lev:
Scale 1/8 = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA203.5.B.1

ORIGINAL SHEET - ARCH E1



LEVEL 3 FSDs DEVICES LAYOUT

SCALE 1/16" = 1'

N

WIRE LEGEND

- 1 S — SLC CIRCUIT
- 1 V — NAC CIRCUIT
- 1 P — POWER CIRCUIT
- 1 A — SPEAKER CIRCUIT
- 1 Z — IDC CIRCUIT
- 1 N — NETWORK CIRCUIT
- 1 A — AUDIO RISER
- 1 S — SLC CIRCUITS IN CLASS A

FSD LEGEND

- FSD / X — DAMPER UNIT
- CT2 — SUPERVISOR OPEN/CLOSED POSITION
- CRH — SHUTDOWN DAMPER

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

SMOKE COMPARTMENT KEYPLAN

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

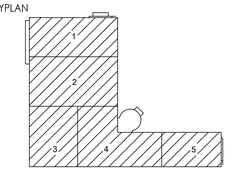
RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04
Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Agency Approval

DSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

Project

Title

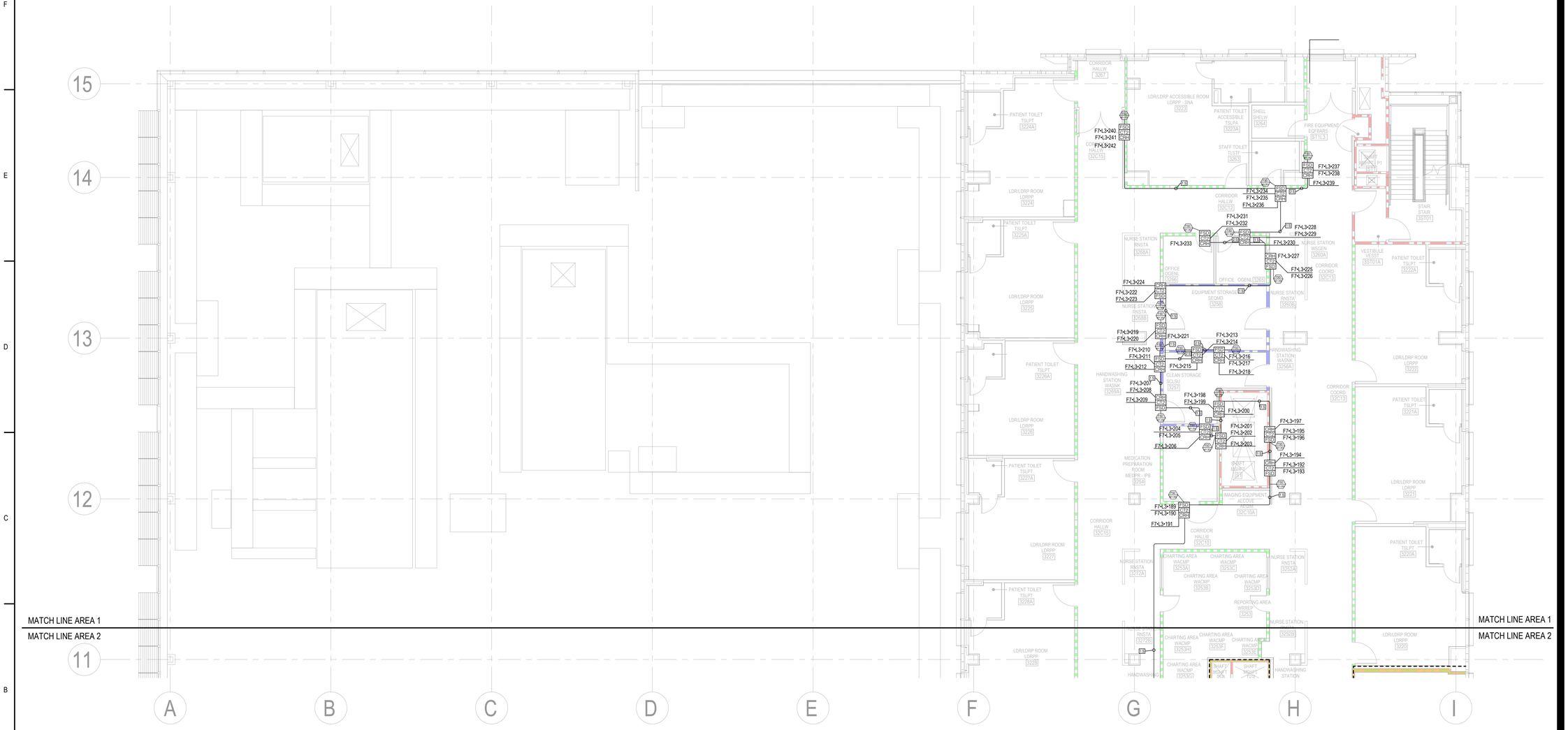
LEVEL 3 FSDs DEVICES LAYOUT

Building ID:	Floor Lev:
Scale 1/8 = 1'-0"	KP Proj. No.
Dwn By LW	Stantec No.
Chckd By VL	Sheet **H-FA103.C**

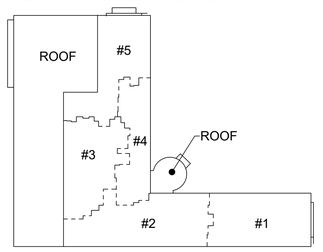
ORIGINAL SHEET - ARCH E1

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).



SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- SLC CIRCUIT
- NAC CIRCUIT
- POWER CIRCUIT
- SPEAKER CIRCUIT
- IDC CIRCUIT
- NETWORK CIRCUIT
- AUDIO RISER
- SLC CIRCUITS IN CLASS A

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

FSD LEGEND

- DAMPER UNIT
- CT2 — SUPERVISOR OPEN/ CLOSED POSITION
- CRH — SHUTDOWN DAMPER

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 3 - AREA 1

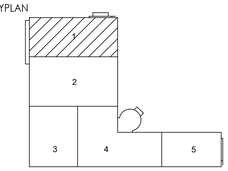
SCALE 1/8" = 1'

N

Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd.

Agency Approval

DSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

Project

Title

PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 3 - AREA 1

Building ID:	Floor Lev:
Scale 1/8" = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA203.1.C

ORIGINAL SHEET - ARCH E1

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

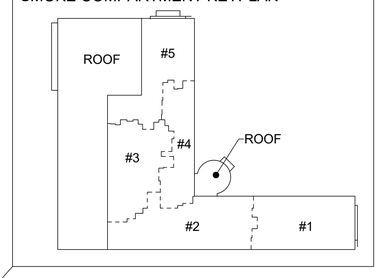
MATCH LINE AREA 1
MATCH LINE AREA 2

MATCH LINE AREA 2
MATCH LINE AREA 3

MATCH LINE AREA 2
MATCH LINE AREA 4

ARCHITECTURAL SCREEN WALL

SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- SLC CIRCUIT
- NAC CIRCUIT
- POWER CIRCUIT
- SPEAKER CIRCUIT
- IDC CIRCUIT
- NETWORK CIRCUIT
- AUDIO RISER
- SLC CIRCUITS IN CLASS A

PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 3 - AREA 2

SCALE 1/8" = 1'

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

N

FSD LEGEND

- FSD X — DAMPER UNIT
- CT2 — SUPERVISOR OPEN/ CLOSED POSITION
- CRH — SHUTDOWN DAMPER

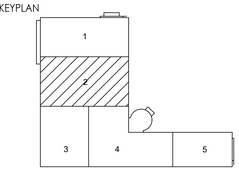
RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

Consultant

Architect / Engineer of Record

KEYPLAN



Revision

	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued

	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Agency Approval

OSHPD No. 123C010-43-00
INCREMENT 4 - 123C010-43-04

Facility

Project

Title

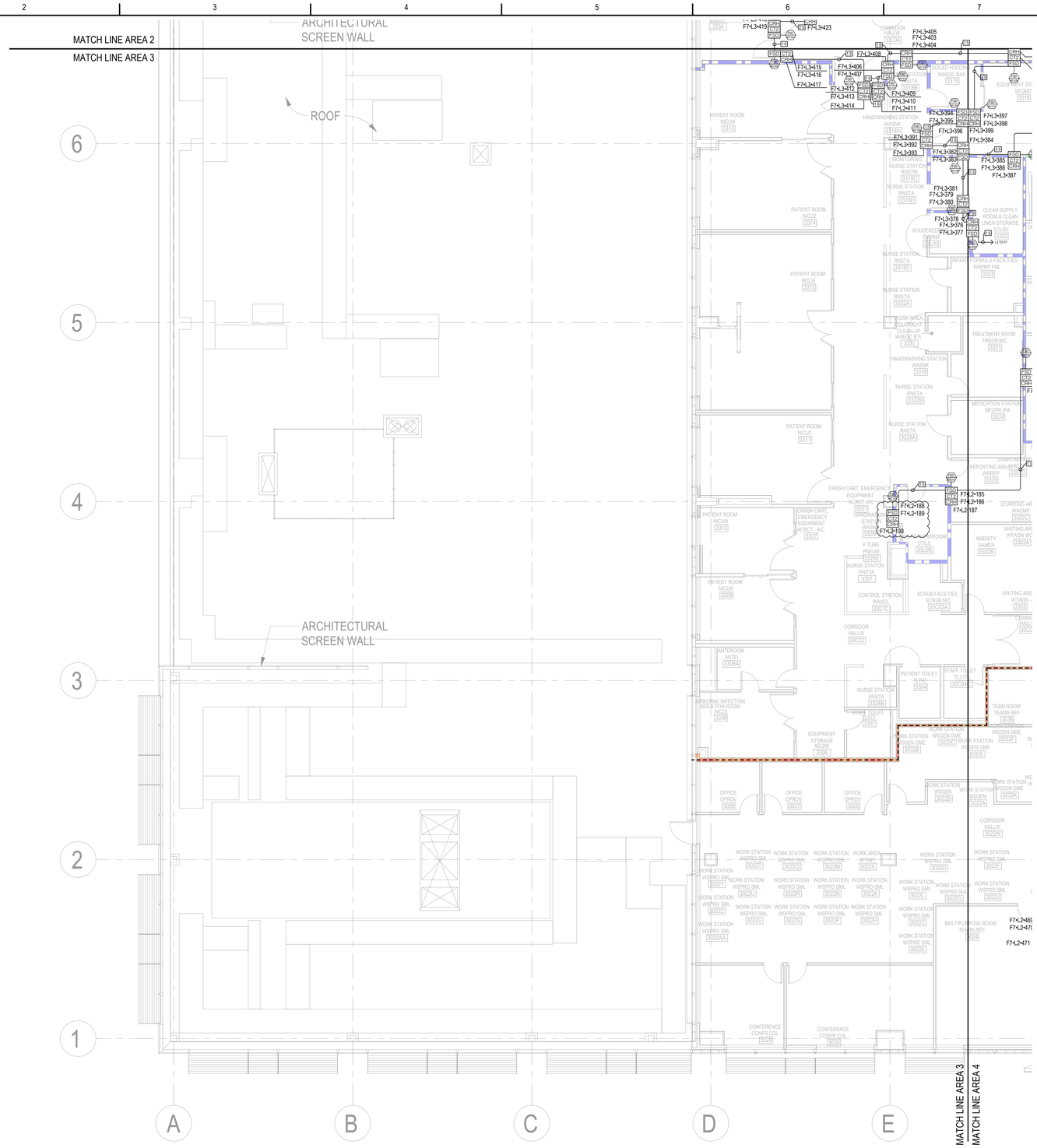
PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 3 - AREA 2

Building ID		Floor Lev.	
Scale	1/8 = 1'-0"	KP Proj. No.	
Dwn By	LW	Stantec No.	
Chckd By	VL		

Sheet

H-FA203.2.C

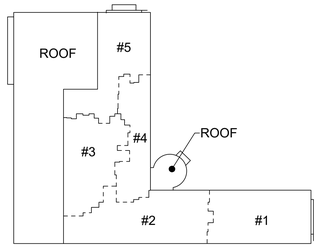
ORIGINAL SHEET - ARCH 81



KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- SLC CIRCUIT
- NAC CIRCUIT
- POWER CIRCUIT
- SPEAKER CIRCUIT
- IDC CIRCUIT
- NETWORK CIRCUIT
- AUDIO RISER
- SLC CIRCUITS IN CLASS A

PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 3 - AREA 3

SCALE 1/8" = 1'

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

N

FSD LEGEND

- FSD / X — DAMPER UNIT
- CT2 — SUPERVISOR OPEN/ CLOSED POSITION
- CRH — SHUTDOWN DAMPER

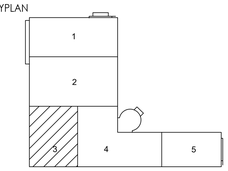
RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

Consultant

Architect / Engineer of Record

KEYPLAN



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Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd.

Agency Approval

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INCREMENT 4 - I230010-43-04

Facility

Project

Title

PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 3 - AREA 3

Building ID:		Floor Lev:
Scale	1/8" = 1'-0"	KP Proj. No.
Drwn By	LW	Stantec No.
Chckd By	VL	

Sheet

H-FA203.3.C

ORIGINAL SHEET - ARCH E1

MATCH LINE AREA 2

MATCH LINE AREA 4

ROOF

MATCH LINE AREA 4

MATCH LINE AREA 5

MATCH LINE AREA 3

MATCH LINE AREA 4

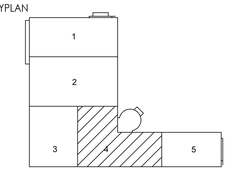
MATCH LINE AREA 4

MATCH LINE AREA 5

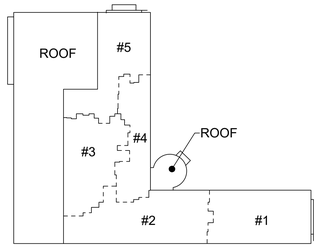
KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

KEYPLAN



SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- SLC CIRCUIT (1S)
- NAC CIRCUIT (1V)
- POWER CIRCUIT (1P)
- SPEAKER CIRCUIT (1A)
- IDC CIRCUIT (1Z)
- NETWORK CIRCUIT (1N)
- AUDIO RISER (1A)
- SLC CIRCUITS IN CLASS A (1S)

PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 3 - AREA 4

SCALE 1/8" = 1'

N

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

FSD LEGEND

- FSD X — DAMPER UNIT
- CT2 — SUPERVISOR OPEN/ CLOSED POSITION
- CRH — SHUTDOWN DAMPER

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

Consultant

Architect / Engineer of Record

Revision

	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

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	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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INCREMENT 4 - 1230010-43-04

Facility

Project

Title

PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 3 - AREA 4

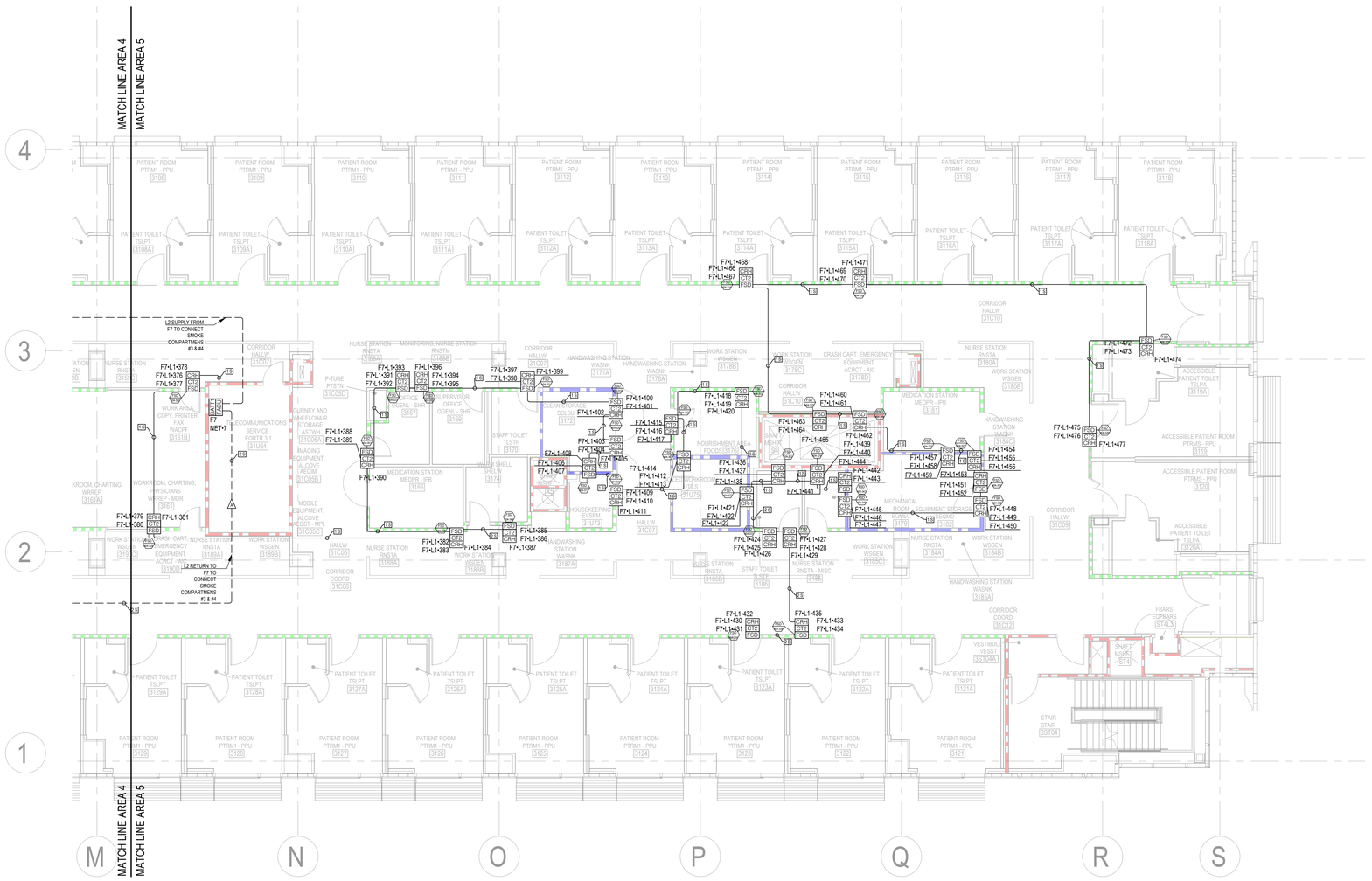
Building ID	Floor Lev.
Scale 1/8" = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA203.4.C

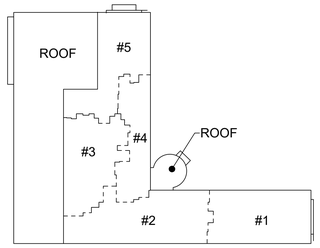
ORIGINAL SHEET - ARCH E1

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).



SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- SLC CIRCUIT (1 S)
- NAC CIRCUIT (1 V)
- POWER CIRCUIT (1 P)
- SPEAKER CIRCUIT (1 A)
- IDC CIRCUIT (1 Z)
- NETWORK CIRCUIT (1 N)
- AUDIO RISER (1 A)
- SLC CIRCUITS IN CLASS A (1 S)

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 3 - AREA 5

SCALE 1/8" = 1'

N

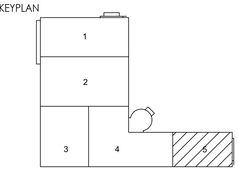
FSD LEGEND

- FSD X — DAMPER UNIT
- CT2 — SUPERVISOR OPEN/ CLOSED POSITION
- CRH — SHUTDOWN DAMPER

Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd.

Agency Approval

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INCREMENT 4 - I230010-43-04

Facility

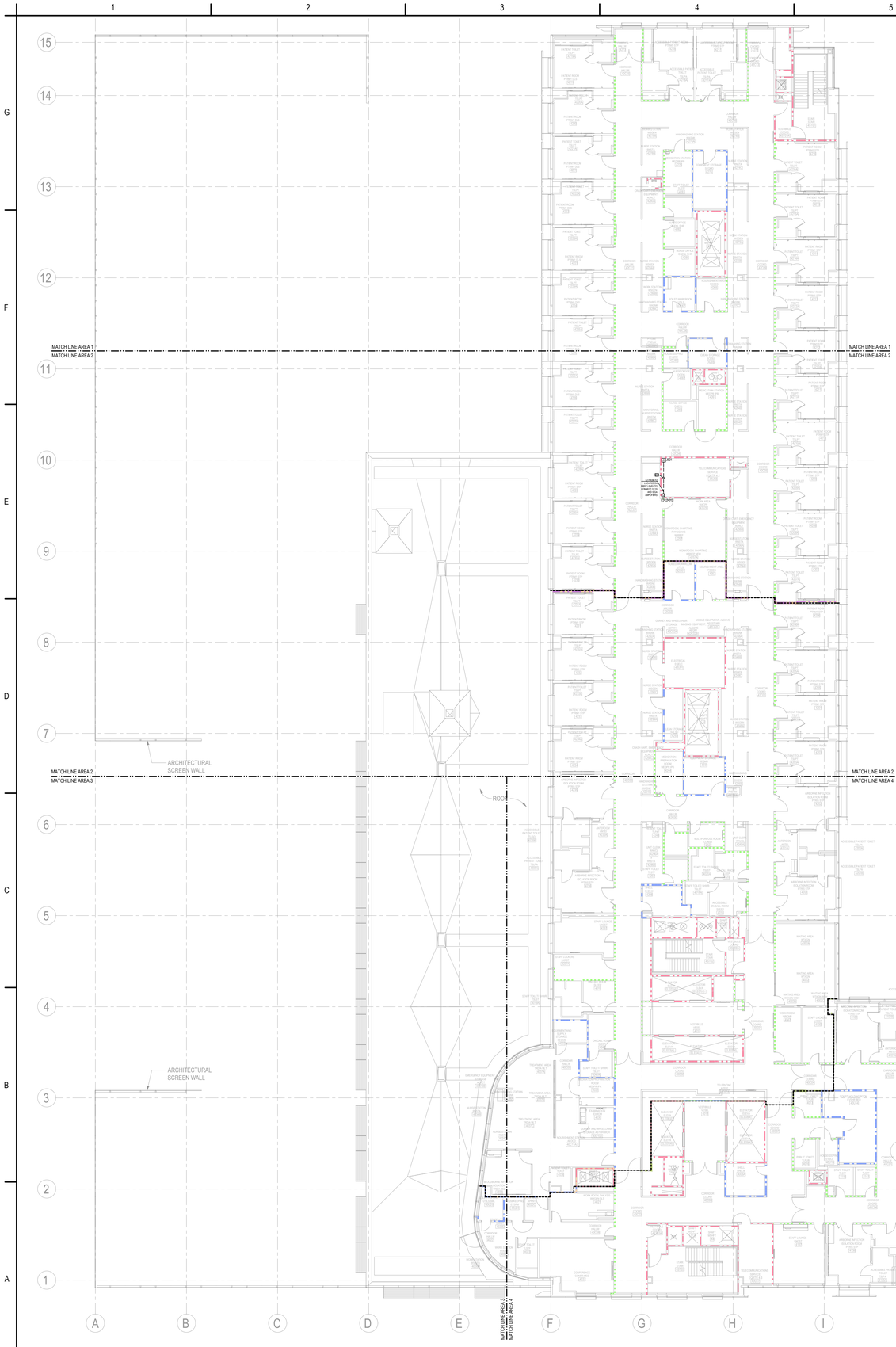
Project

Title

PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 3 - AREA 5

Building ID		Floor Lev:	
Scale	1/8 = 1'-0"	KP Proj. No.	
Drwn By	LW	Stantec No.	
Chckd By	VL	Sheet	H-FA203.5.C

ORIGINAL SHEET - ARCH E1



N

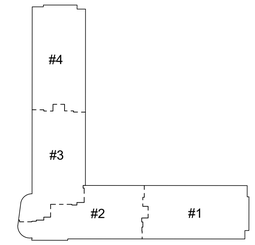
WIRE LEGEND

- 1 S — SLC CIRCUIT
- 1 V — NAC CIRCUIT
- 1 P — POWER CIRCUIT
- 1 A — SPEAKER CIRCUIT
- 1 Z — IDC CIRCUIT
- 1 N — NETWORK CIRCUIT
- 1 A — AUDIO RISER
- 1 S — SLC CIRCUITS IN CLASS A

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

SMOKE COMPARTMENT KEYPLAN



LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

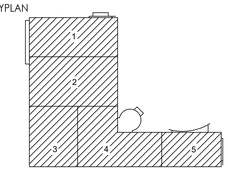
LEVEL 4 ISOLATORS LAYOUT

SCALE 1/16" = 1'

Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04
Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd.

Agency Approval

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INCREMENT 4 - 123001O-43-04

Facility

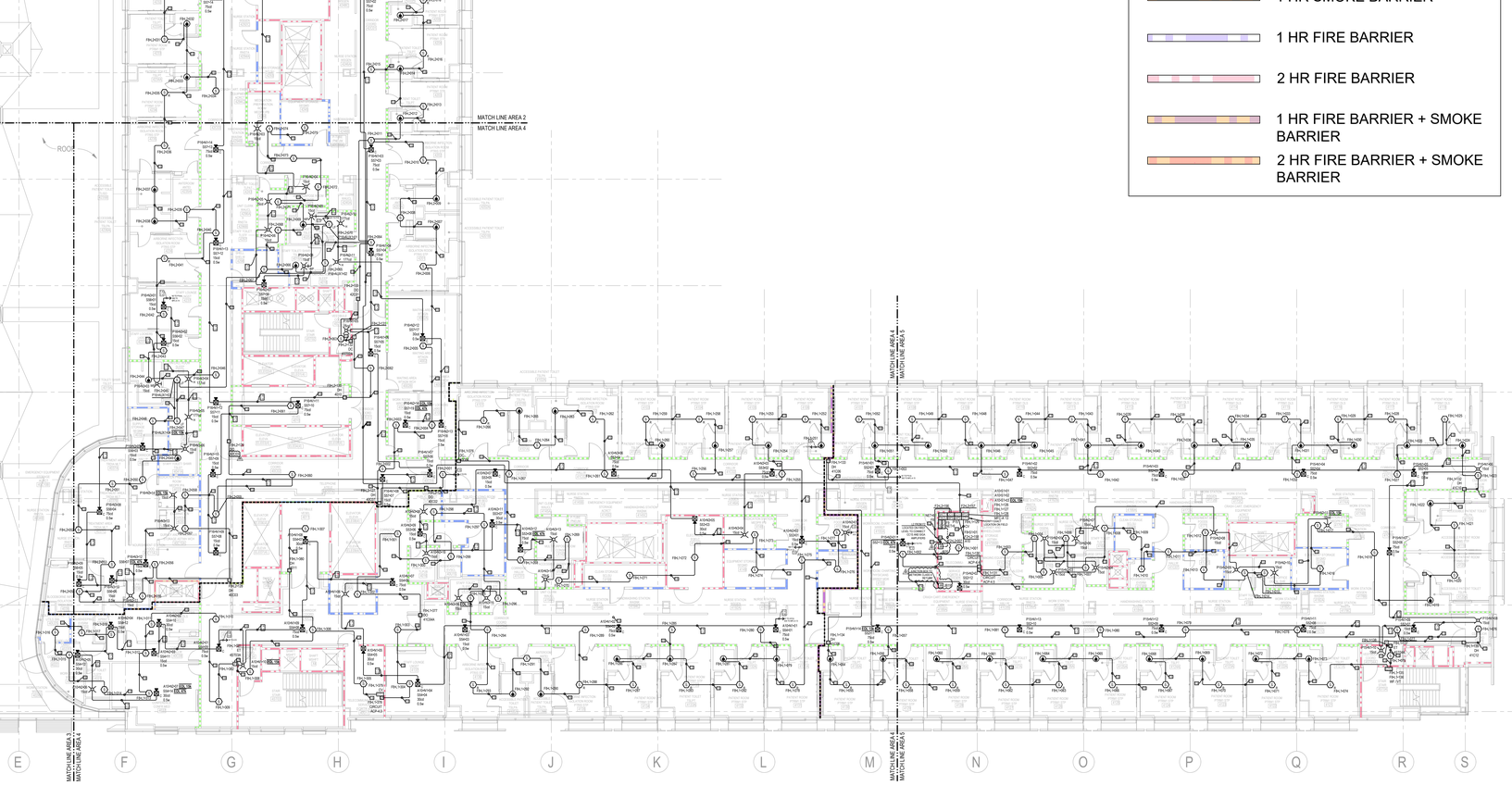
Project

Title
LEVEL 4 ISOLATORS LAYOUT

Building ID:	Floor Lev:
Scale 1/16 = 1'-0"	KP Proj. No.
Dwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA104-A

ORIGINAL SHEET - ARCH E1



LEVEL 4 DEVICE LAYOUT

SCALE 1/16" = 1'

N

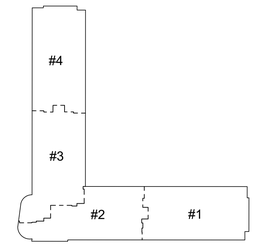
WIRE LEGEND

- 1 S — SLC CIRCUIT
- 1 V — NAC CIRCUIT
- 1 P — POWER CIRCUIT
- 1 A — SPEAKER CIRCUIT
- 1 Z — IDC CIRCUIT
- 1 N — NETWORK CIRCUIT
- 1 A — AUDIO RISER
- 1 S — SLC CIRCUITS IN CLASS A

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

SMOKE COMPARTMENT KEYPLAN



LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

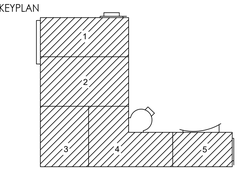
RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04
Issued	By	Appd	YYYY.MM.DD

Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Agency Approval

OSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

Project

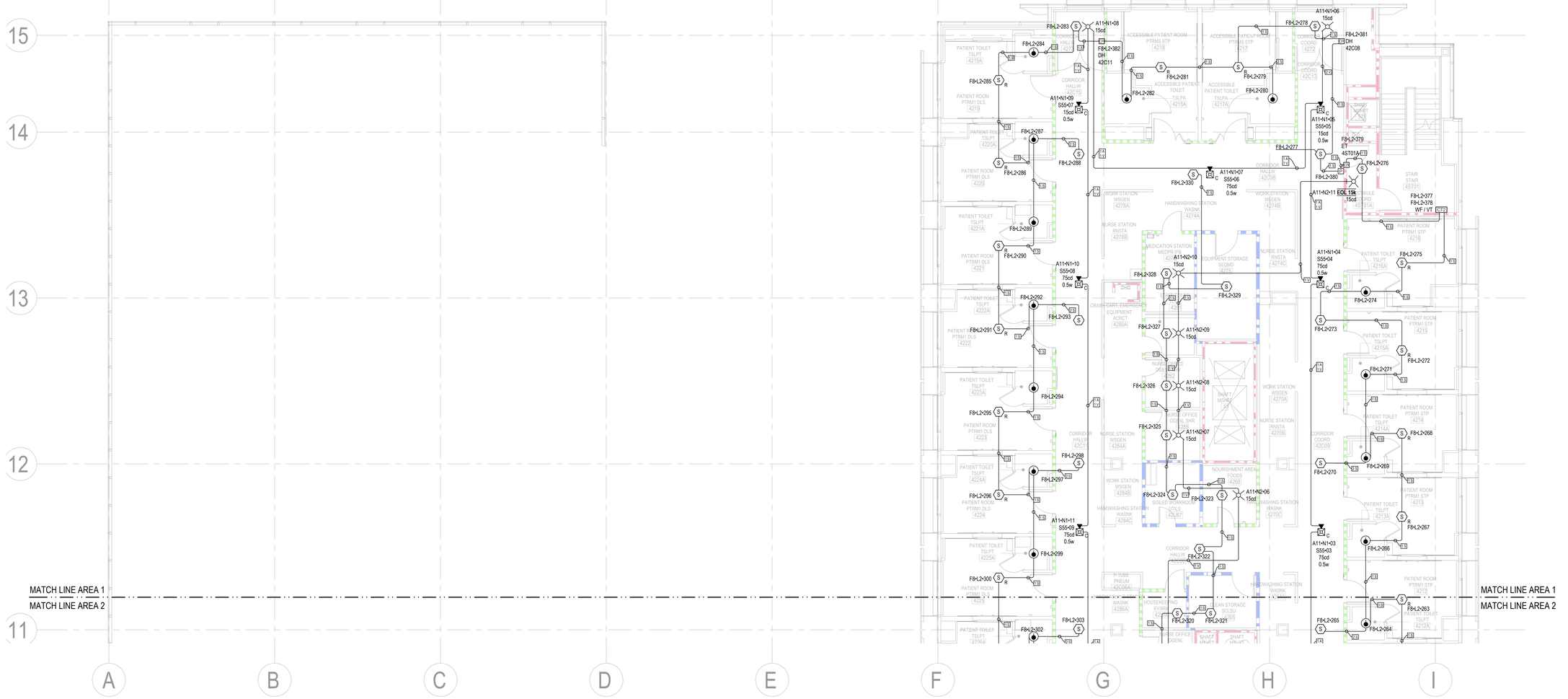
Title
LEVEL 4 GENERAL DEVICES LAYOUT

Building ID:		Floor Lev:	
Scale	1/16 = 1'-0"	KP Proj. No.	
Drwn By	LW	Stantec No.	
Chckd By	VL	Sheet	**H-FA104-B**

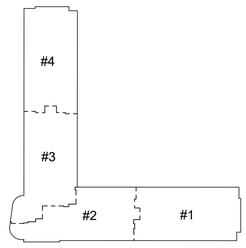
ORIGINAL SHEET - ARCH E1

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).



SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- 1 S — SLC CIRCUIT
- 1 V — NAC CIRCUIT
- 1 P — POWER CIRCUIT
- 1 A — SPEAKER CIRCUIT
- 1 Z — IDC CIRCUIT
- 1 N — NETWORK CIRCUIT
- 1 A — AUDIO RISER
- 1 S — SLC CIRCUITS IN CLASS A

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 4 - AREA 1

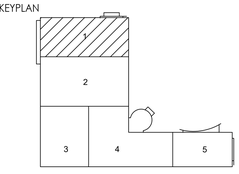
SCALE 1/8" = 1'

N

Consultant

Architect / Engineer of Record

KEYPLAN



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Issued	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Agency Approval

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INCREMENT 4 - I230010-43-04

Facility

Project

Title

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 4 - AREA 1

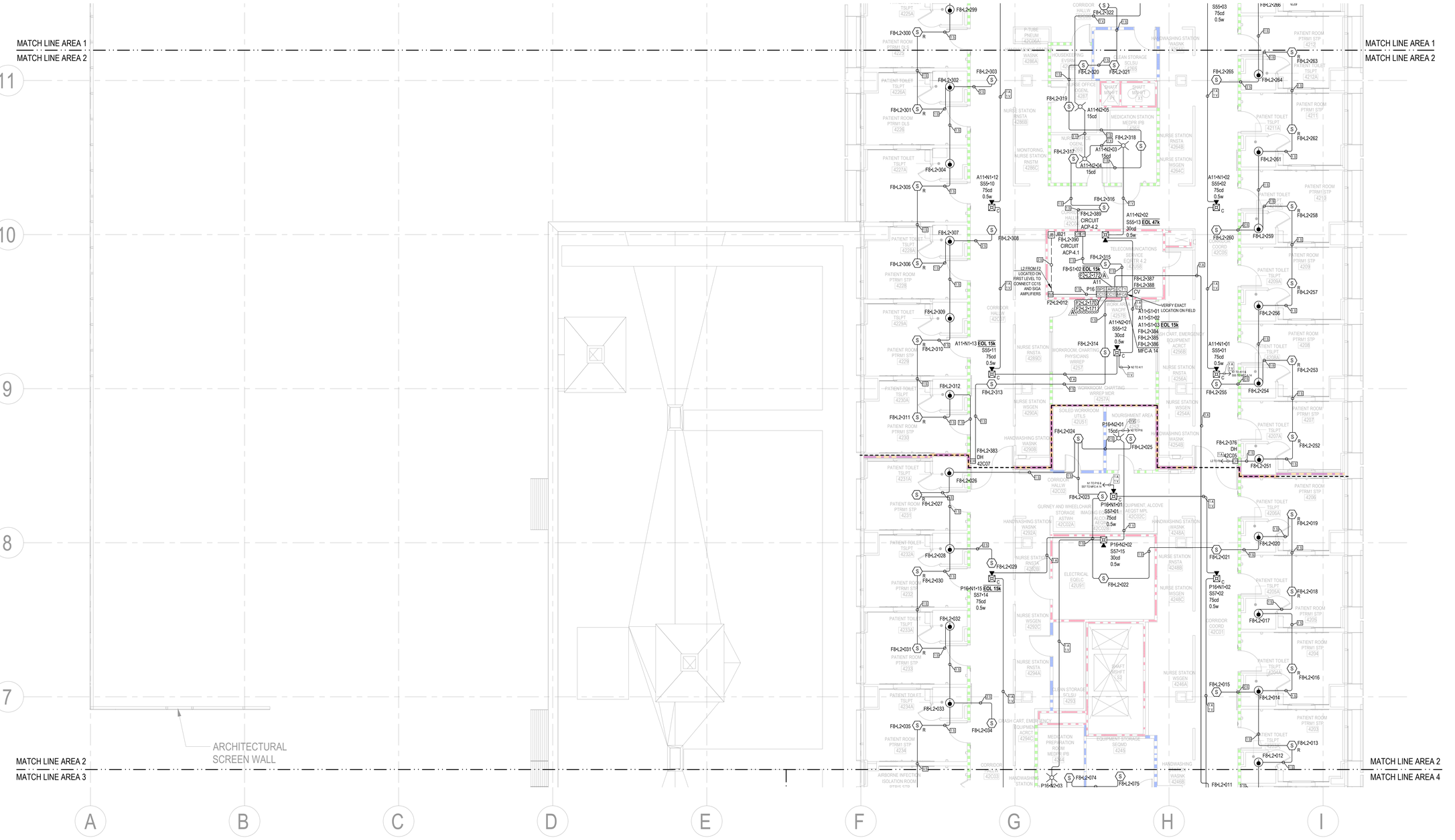
Building ID:	Floor Lev:
Scale 1/8" = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chkd By VL	Sheet

H-FA204.1.B

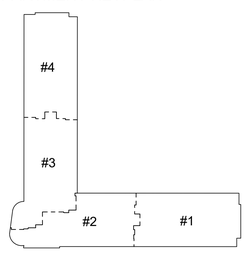
ORIGINAL SHEET - ARCH E1

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).



SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- SLC CIRCUIT
- NAC CIRCUIT
- POWER CIRCUIT
- SPEAKER CIRCUIT
- IDC CIRCUIT
- NETWORK CIRCUIT
- AUDIO RISER
- SLC CIRCUITS IN CLASS A

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

N

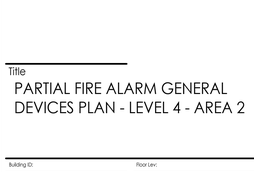
PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 4 - AREA 2

SCALE 1/8" = 1'

Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04
Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

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INCREMENT 4 - 1230010-43-04

Facility

Project

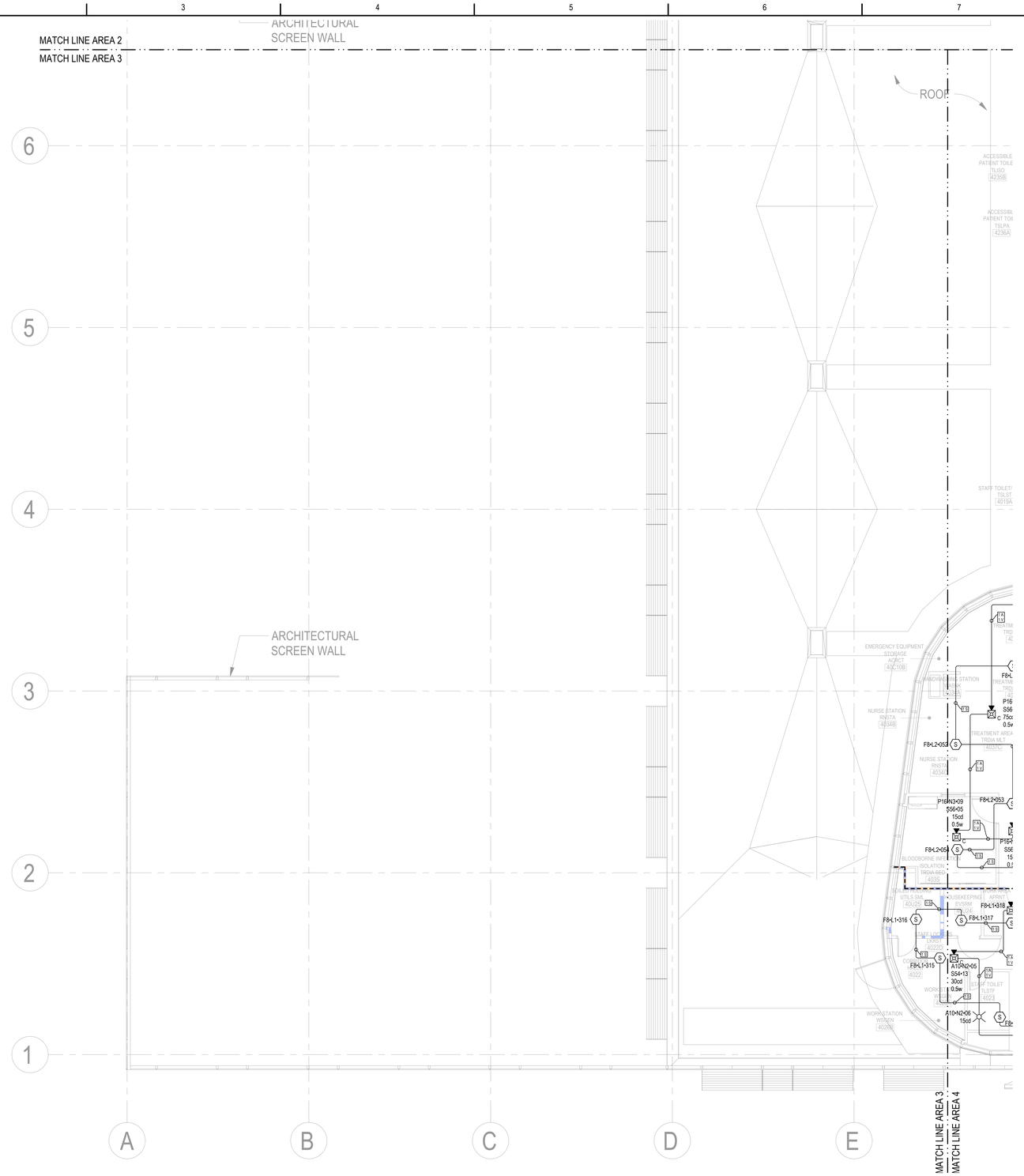
Title

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 4 - AREA 2

Building ID:	Floor Lev.:
Scale 1/8" = 1'-0"	KP Proj. No.
Dwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA204.2.B

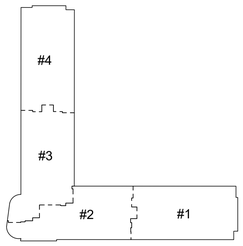
ORIGINAL SHEET - ARCH 01



KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- SLC CIRCUIT (T S)
- NAC CIRCUIT (T V)
- POWER CIRCUIT (T P)
- SPEAKER CIRCUIT (T A)
- IDC CIRCUIT (T Z)
- NETWORK CIRCUIT (T N)
- AUDIO RISER (T A)
- SLC CIRCUITS IN CLASS A (T S)

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 4 - AREA 3

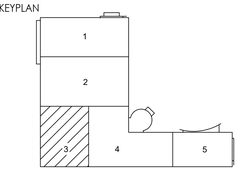
SCALE 1/8" = 1'

N

Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Agency Approval

DSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

Project

Title

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 4 - AREA 3

Building ID:	Floor Lev:
Scale 1/8 = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA204.3.B

ORIGINAL SHEET - ARCH E1

MATCH LINE AREA 2
MATCH LINE AREA 4

MATCH LINE AREA 4
MATCH LINE AREA 5

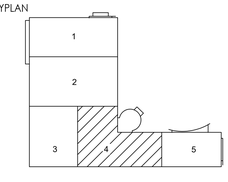
MATCH LINE AREA 3
MATCH LINE AREA 4

MATCH LINE AREA 4
MATCH LINE AREA 5

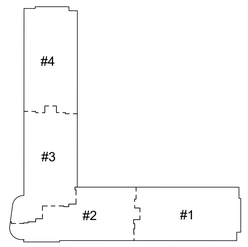
KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

KEYPLAN



SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- SLC CIRCUIT
- NAC CIRCUIT
- POWER CIRCUIT
- SPEAKER CIRCUIT
- IDC CIRCUIT
- NETWORK CIRCUIT
- AUDIO RISER
- SLC CIRCUITS IN CLASS A

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 4 - AREA 4

SCALE 1/8" = 1'

N

Consultant

Architect / Engineer of Record

Revision

	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued

	By	Appd	YYYY.MM.DD
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Agency Approval

OSHPD No. 123010-43-00
INCREMENT 4 - 123010-43-04

Facility

Project

Title

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 4 - AREA 4

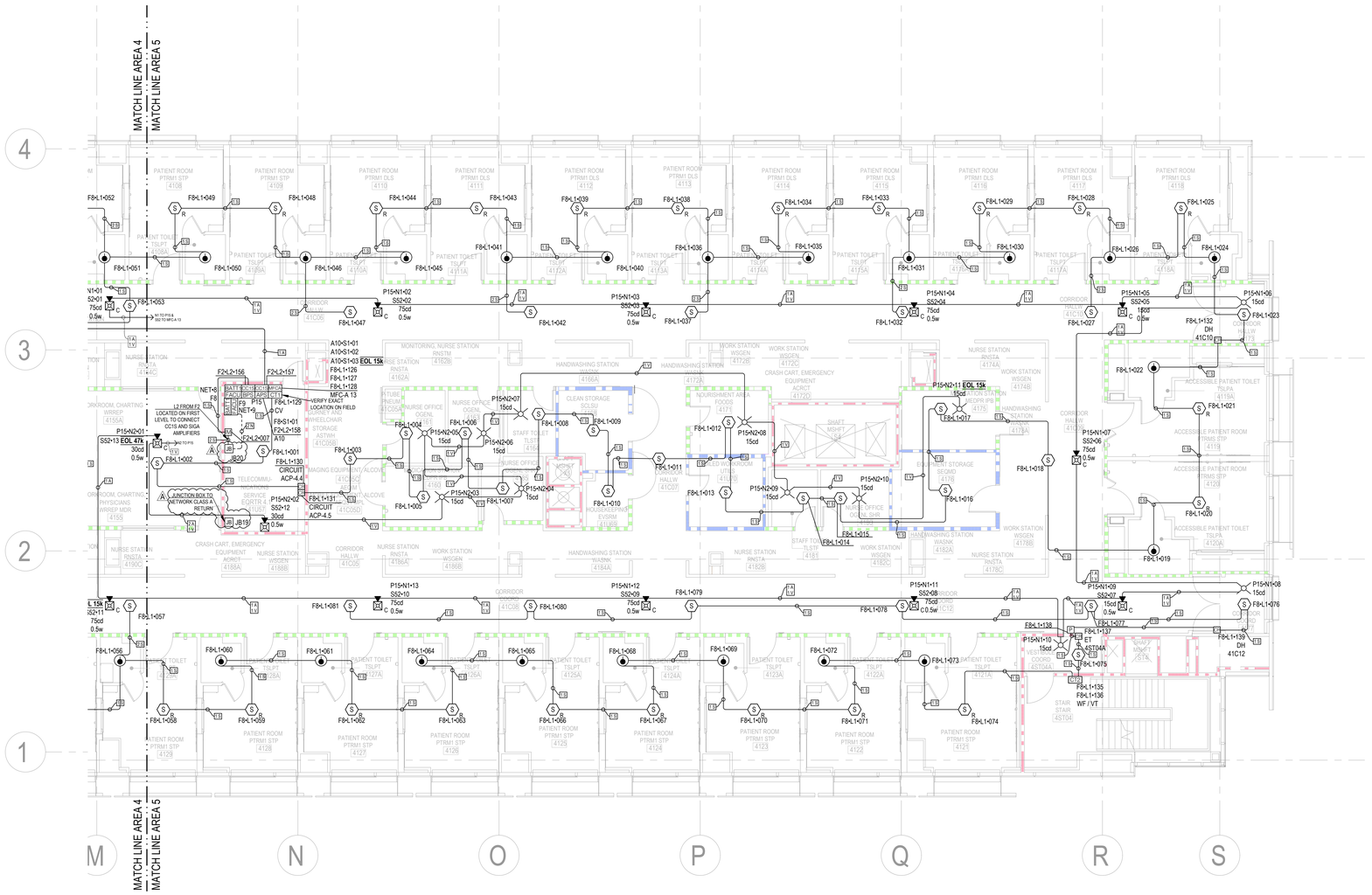
Building ID	Floor Lev.
Scale 1/8" = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA204.4.B

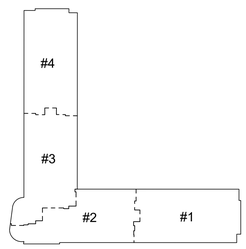
ORIGINAL SHEET - ARCH E1

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).



SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- SLC CIRCUIT
- NAC CIRCUIT
- POWER CIRCUIT
- SPEAKER CIRCUIT
- IDC CIRCUIT
- NETWORK CIRCUIT
- AUDIO RISER
- SLC CIRCUITS IN CLASS A

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 4 - AREA 5

SCALE 1/8" = 1'

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

N

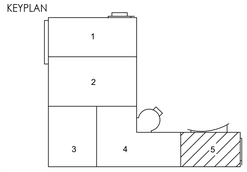
RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04
Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Agency Approval

CSHPD No.: I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

Project

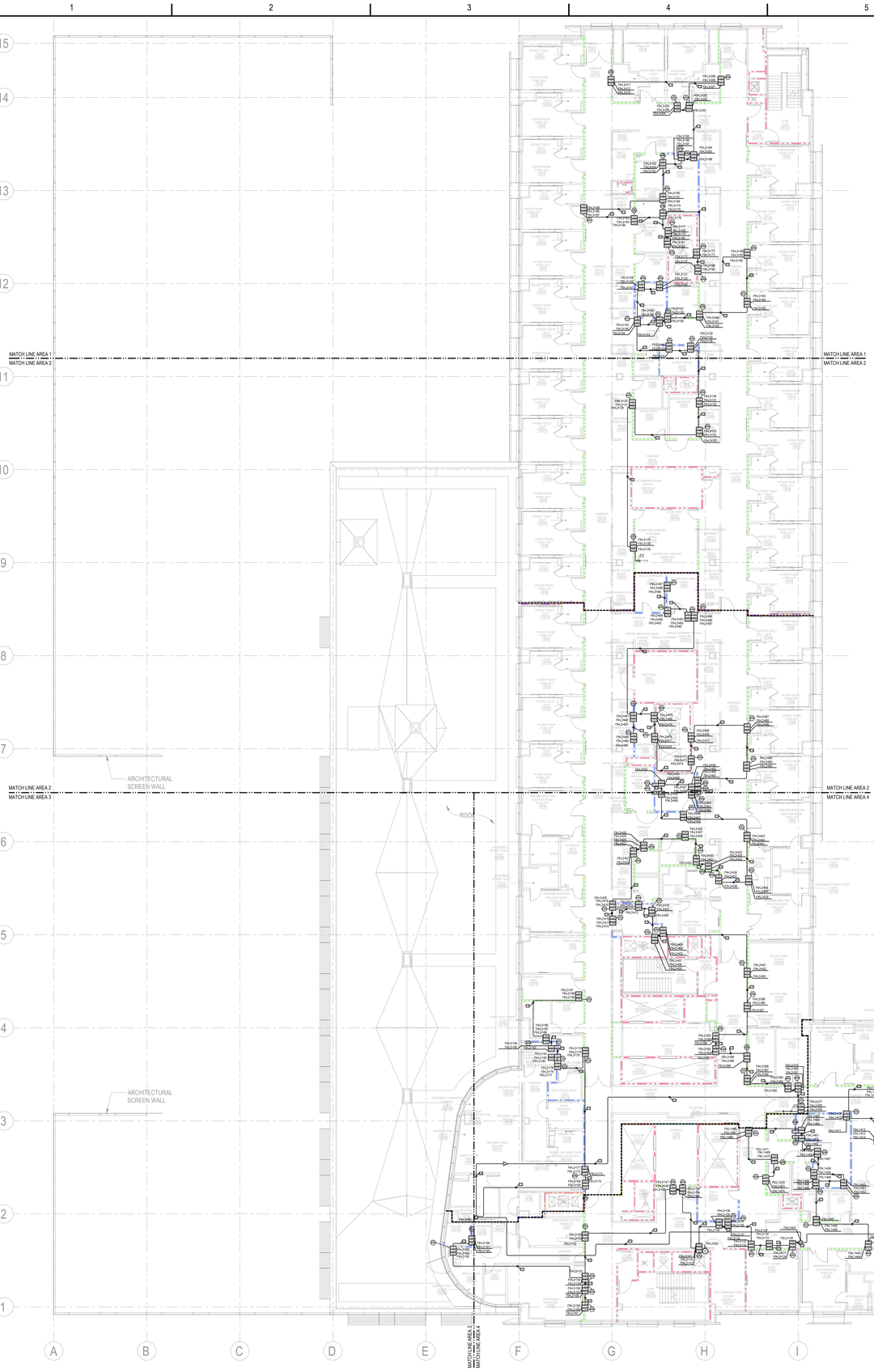
Title

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 4 - AREA 5

Building ID:	Floor Lev:
Scale 1/8 = 1'-0"	KP Proj. No.
Dwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA204.5.B

ORIGINAL SHEET - ARCH E1



N

WIRE LEGEND

- 1 S — SLC CIRCUIT
- 1 V — NAC CIRCUIT
- 1 P — POWER CIRCUIT
- 1 A — SPEAKER CIRCUIT
- 1 Z — IDC CIRCUIT
- 1 N — NETWORK CIRCUIT
- 1 A — AUDIO RISER
- 1 S — SLC CIRCUITS IN CLASS A

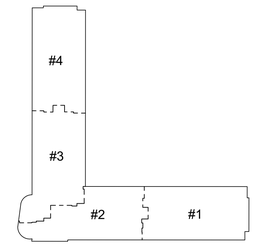
FSD LEGEND

- FSD / X — DAMPER UNIT
- CT2 — SUPERVISOR OPEN/CLOSED POSITION
- CRH — SHUTDOWN DAMPER

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

SMOKE COMPARTMENT KEYPLAN



LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

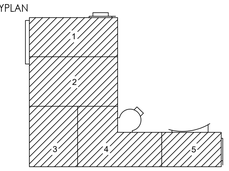
LEVEL 4 FSDs DEVICES LAYOUT

SCALE 1/16" = 1'

Consultant

Architect / Engineer of Record

KEYPLAN



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	Dwn.	Dsgn.	Chkd.

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INCREMENT 4 - I230010-43-04

Facility

Project

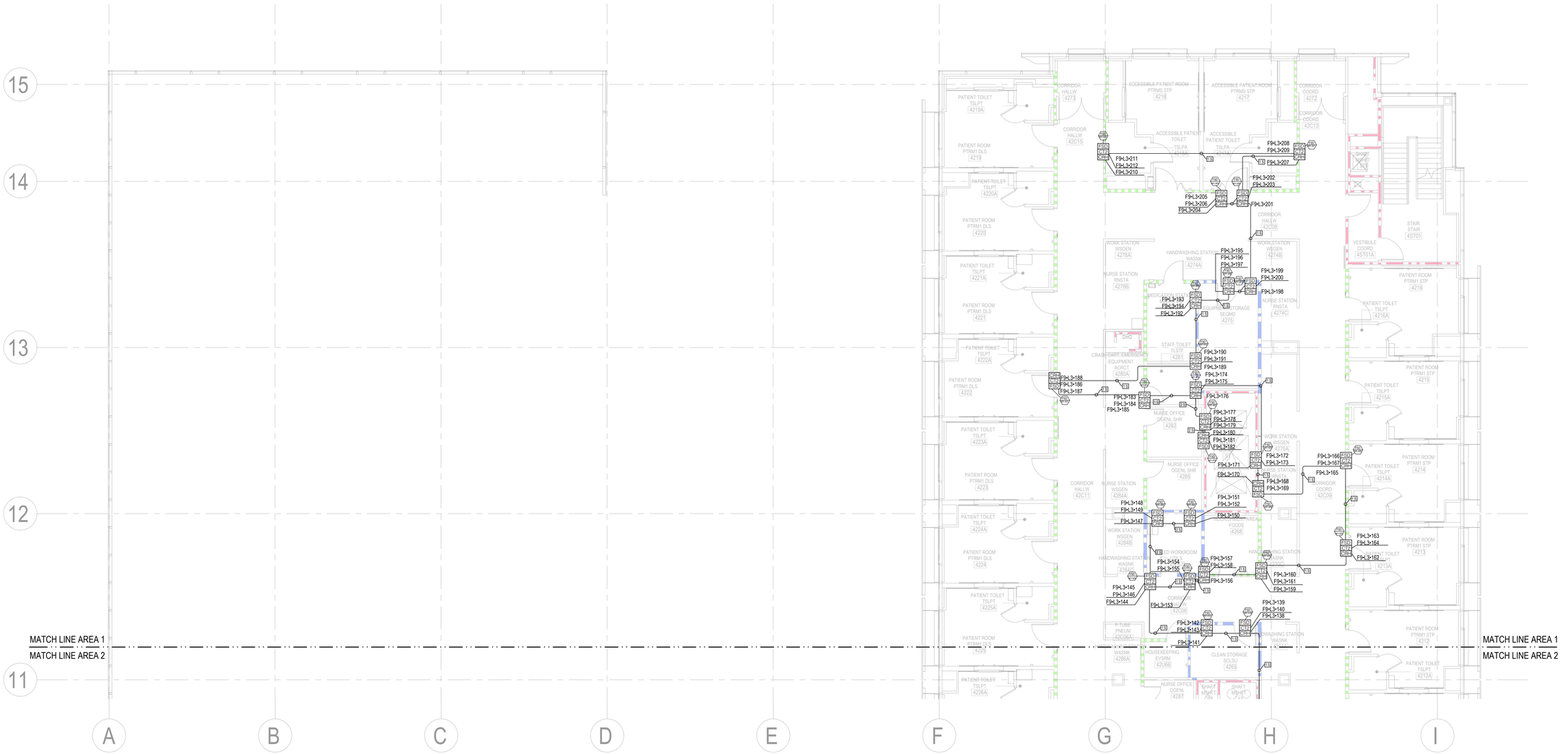
Title
LEVEL 4 FSDs DEVICES LAYOUT

Building ID:	Floor Lev:
Scale 1/16 = 1'-0"	KP Proj. No.
Dwn By LW	Stantec No.
Chckd By VL	Sheet **H-FA104.C**

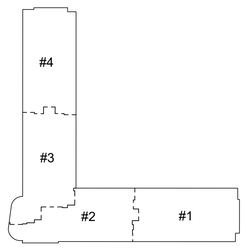
ORIGINAL SHEET - ARCH E1

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).



SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- SLC CIRCUIT (1 S)
- NAC CIRCUIT (1 V)
- POWER CIRCUIT (1 P)
- SPEAKER CIRCUIT (1 A)
- IDC CIRCUIT (1 Z)
- NETWORK CIRCUIT (1 N)
- AUDIO RISER (1 A)
- SLC CIRCUITS IN CLASS A (1 S)

PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 4 - AREA 1

SCALE 1/8" = 1'

N

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

FSD LEGEND

- FSD X — DAMPER UNIT
- CT2 — SUPERVISOR OPEN/ CLOSED POSITION
- CRH — SHUTDOWN DAMPER

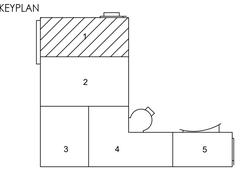
RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

Consultant

Architect / Engineer of Record

KEYPLAN



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INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Agency Approval

OSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

Project

Title

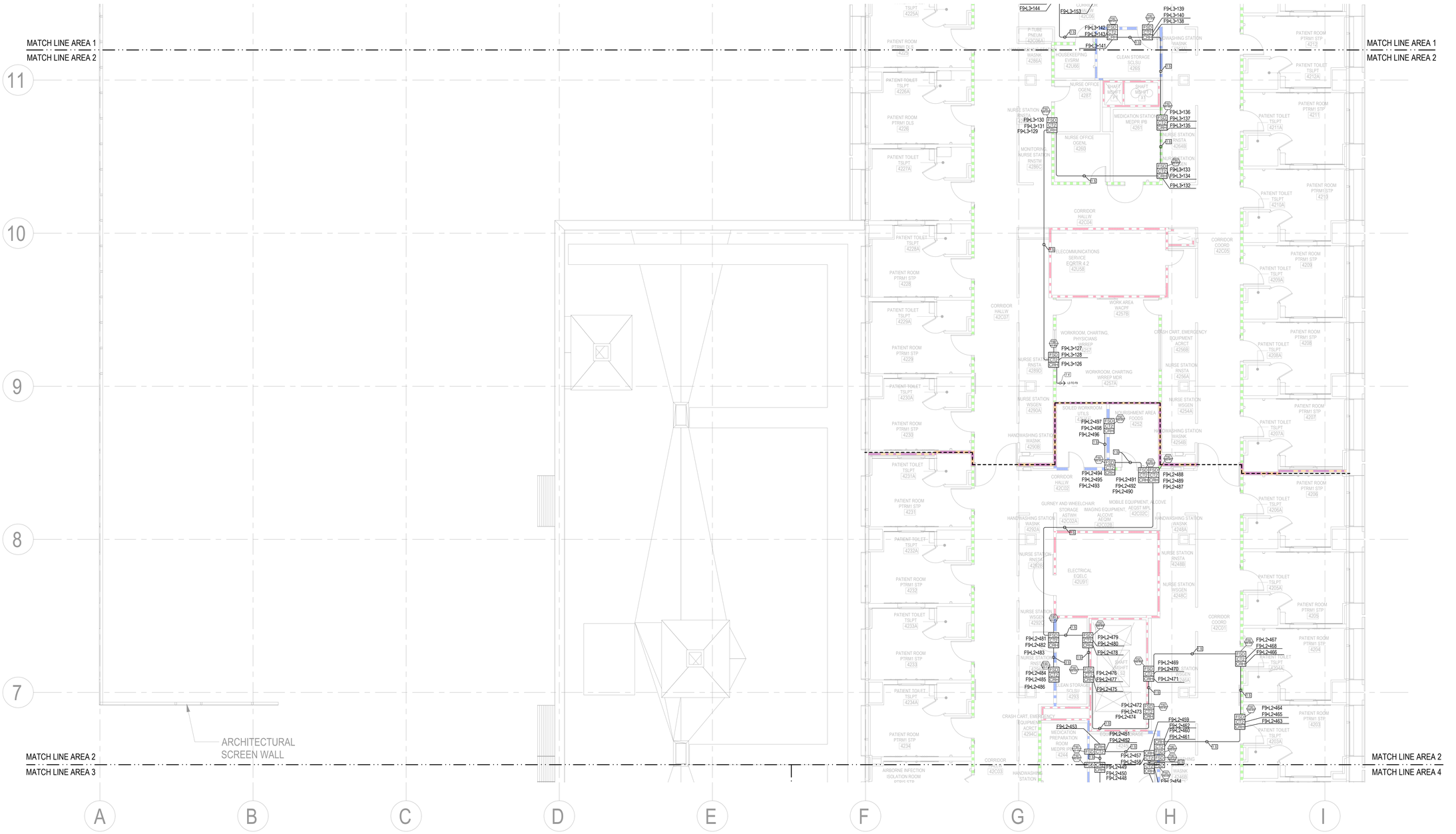
PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 4 - AREA 1

Building ID:		Floor Lev:	
Scale	1/8" = 1'-0"	KP Proj. No.	
Drwn By	LW	Stantec No.	
Chckd By	VL	Sheet	H-FA204.1.C

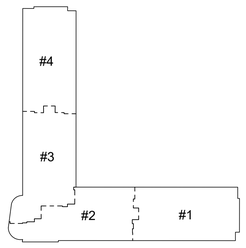
ORIGINAL SHEET - ARCH E1

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).



SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- SLC CIRCUIT (1 S)
- NAC CIRCUIT (1 V)
- POWER CIRCUIT (1 P)
- SPEAKER CIRCUIT (1 A)
- IDC CIRCUIT (1 Z)
- NETWORK CIRCUIT (1 N)
- AUDIO RISER (1 A)
- SLC CIRCUITS IN CLASS A (1 S)

PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 4 - AREA 2

SCALE 1/8" = 1'

N

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

FSD LEGEND

- FSD / X — DAMPER UNIT
- CT2 — SUPERVISOR OPEN/ CLOSED POSITION
- CRH — SHUTDOWN DAMPER

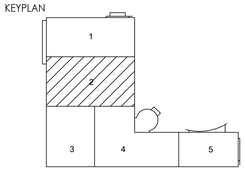
RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04
Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Agency Approval

OSHPD No. 1230010-43-00
INCREMENT 4 - I230010-43-04

Facility

Project

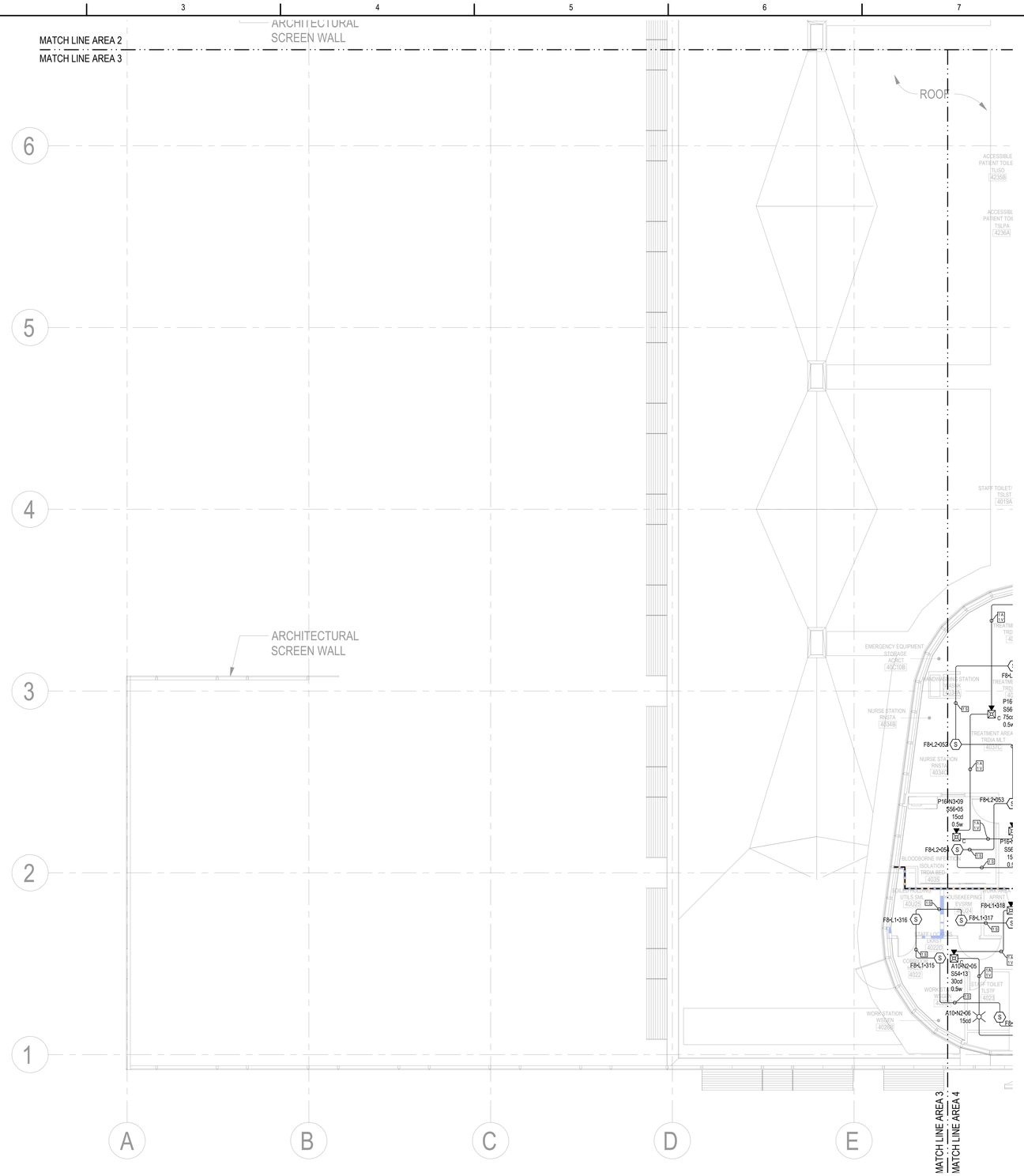
Title

PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 4 - AREA 2

Building ID:	Floor Lev:
Scale 1/8" = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA204.2.C

ORIGINAL SHEET - ARCH E1



KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
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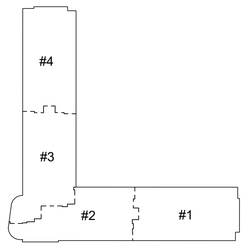
SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- SLC CIRCUIT
- NAC CIRCUIT
- POWER CIRCUIT
- SPEAKER CIRCUIT
- IDC CIRCUIT
- NETWORK CIRCUIT
- AUDIO RISER
- SLC CIRCUITS IN CLASS A

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 4 - AREA 3

SCALE 1/8" = 1'

N

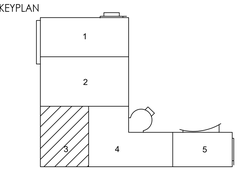
FSD LEGEND

- FSD X — DAMPER UNIT
- CT2 — SUPERVISOR OPEN/ CLOSED POSITION
- CRH — SHUTDOWN DAMPER

Consultant

Architect / Engineer of Record

KEYPLAN



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INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

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Agency Approval

DSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

Project

Title

PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 4 - AREA 3

Building ID:	Floor Lev:
Scale 1/8" = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA204.3.C

ORIGINAL SHEET - ARCH E1

MATCH LINE AREA 2
MATCH LINE AREA 4

MATCH LINE AREA 4
MATCH LINE AREA 5

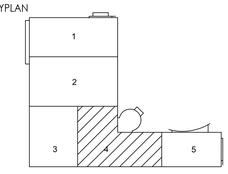
MATCH LINE AREA 3
MATCH LINE AREA 4

MATCH LINE AREA 4
MATCH LINE AREA 5

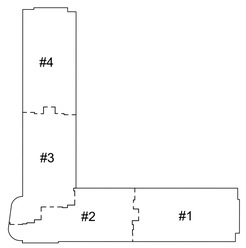
KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

KEYPLAN



SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- SLC CIRCUIT (1S)
- NAC CIRCUIT (1V)
- POWER CIRCUIT (1P)
- SPEAKER CIRCUIT (1A)
- IDC CIRCUIT (1Z)
- NETWORK CIRCUIT (1N)
- AUDIO RISER (1A)
- SLC CIRCUITS IN CLASS A (1S)

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

FSD LEGEND

- FSD X — DAMPER UNIT
- CT2 — SUPERVISOR OPEN/ CLOSED POSITION
- CRH — SHUTDOWN DAMPER

PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 4 - AREA 4

SCALE 1/8" = 1'

N

Consultant

Architect / Engineer of Record

Revision

	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued

	By	Appd	YYYY.MM.DD
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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INCREMENT 4 - I2300010-43-04

Facility

Project

Title

PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 4 - AREA 4

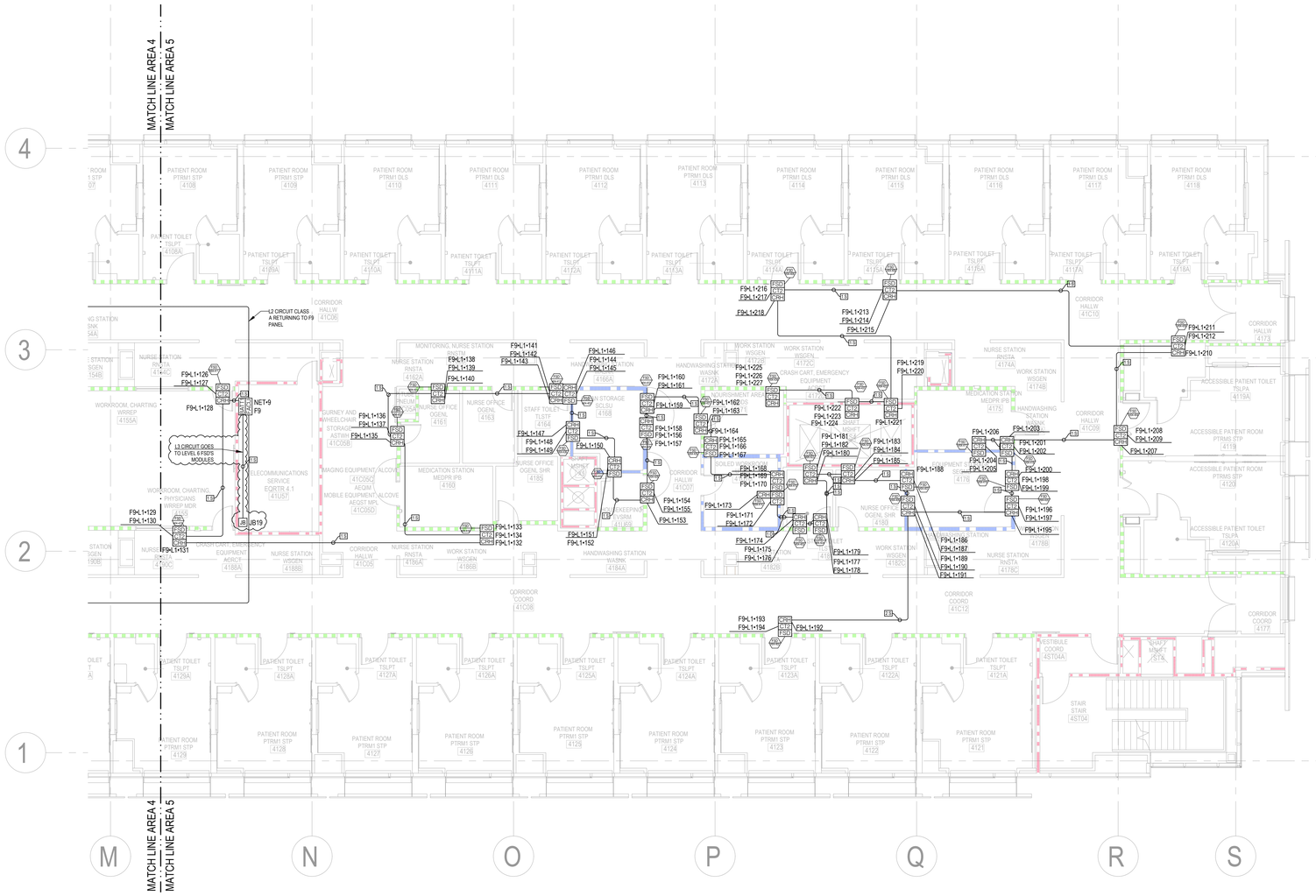
Building ID:	Floor Lev:
Scale 1/8 = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA204.4.C

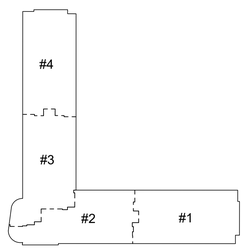
ORIGINAL SHEET - ARCH E1

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).



SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- SLC CIRCUIT
- NAC CIRCUIT
- POWER CIRCUIT
- SPEAKER CIRCUIT
- IDC CIRCUIT
- NETWORK CIRCUIT
- AUDIO RISER
- SLC CIRCUITS IN CLASS A

PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 4 - AREA 5

SCALE 1/8" = 1'

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

N

FSD LEGEND

- DAMPER UNIT
- CT2 SUPERVISOR OPEN/ CLOSED POSITION
- CRH SHUTDOWN DAMPER

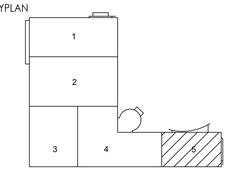
RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04
Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd.

Agency Approval

QSHPD No. I2300103-43-00
INCREMENT 4 - I2300103-43-04

Facility

Project

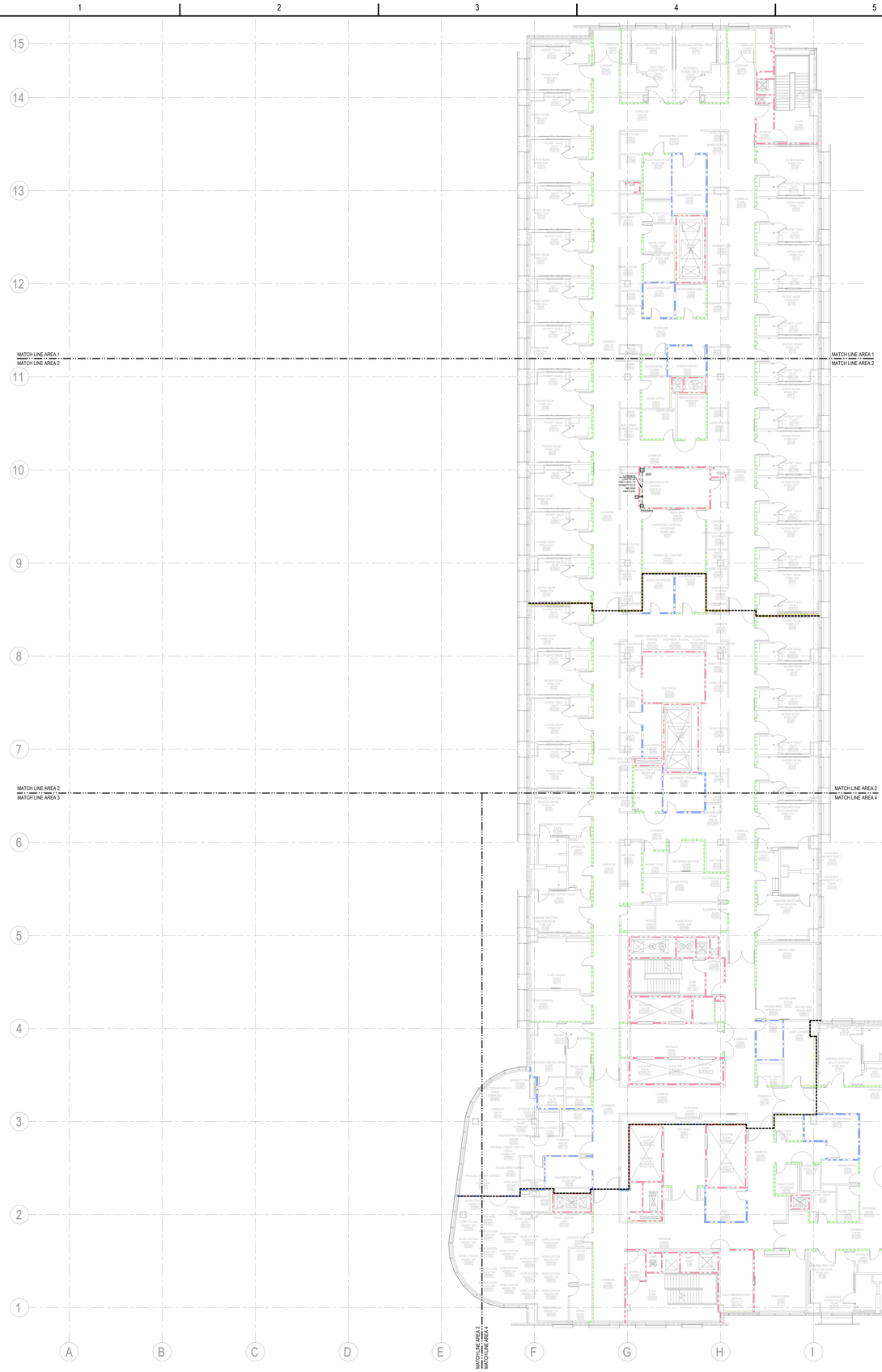
Title

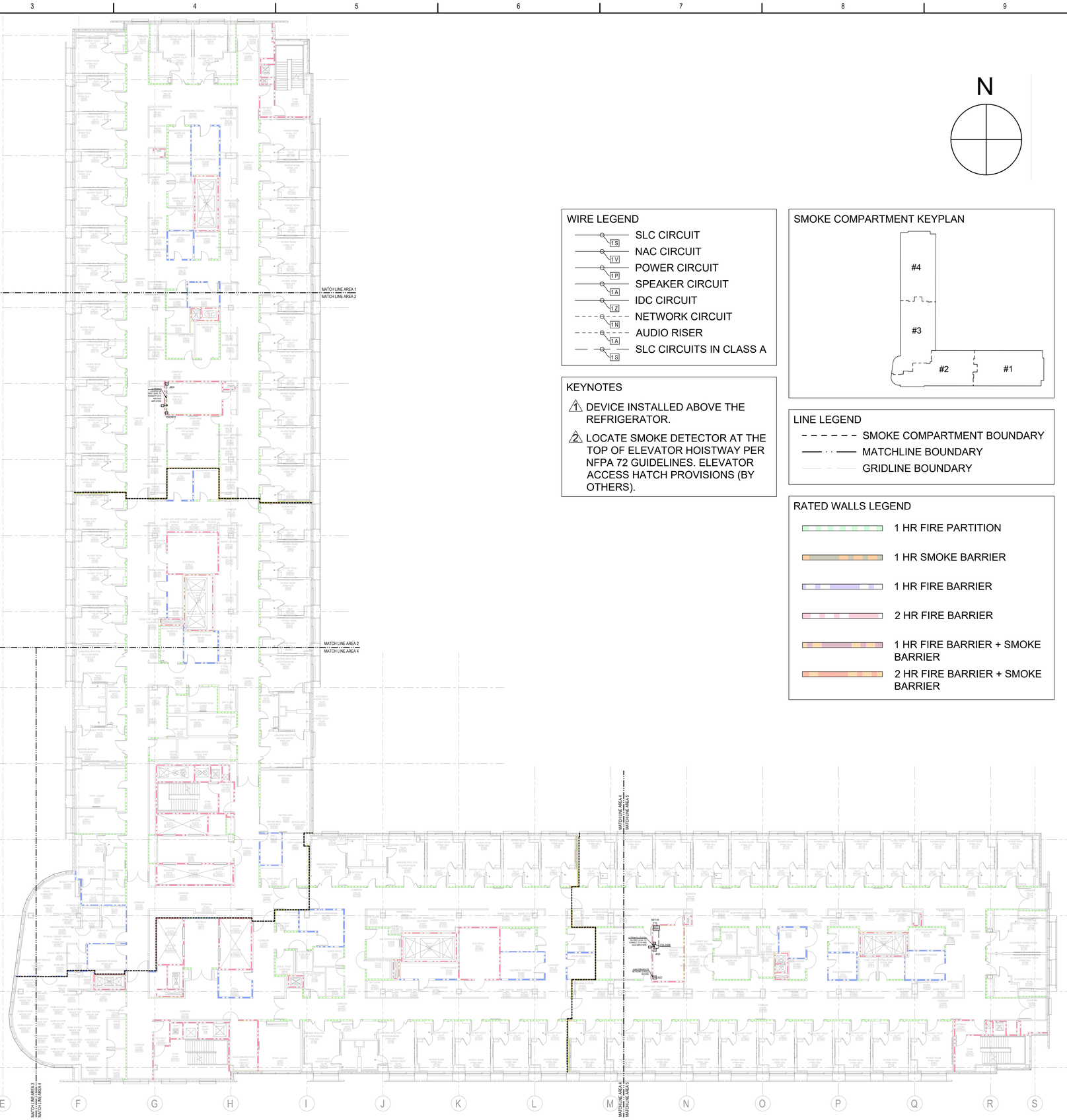
PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 4 - AREA 5

Building ID:	Floor Lev:
Scale 1/8" = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA204.5.C

ORIGINAL SHEET - ARCH E1





N

WIRE LEGEND

- 1 S — SLC CIRCUIT
- 1 V — NAC CIRCUIT
- 1 P — POWER CIRCUIT
- 1 A — SPEAKER CIRCUIT
- 1 Z — IDC CIRCUIT
- 1 N — NETWORK CIRCUIT
- 1 A — AUDIO RISER
- 1 S — SLC CIRCUITS IN CLASS A

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

SMOKE COMPARTMENT KEYPLAN

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

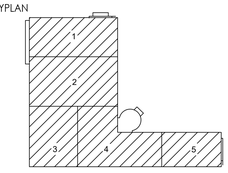
LEVEL 5 ISOLATORS LAYOUT

SCALE 1/16" = 1'

Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04
Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Agency Approval

DSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

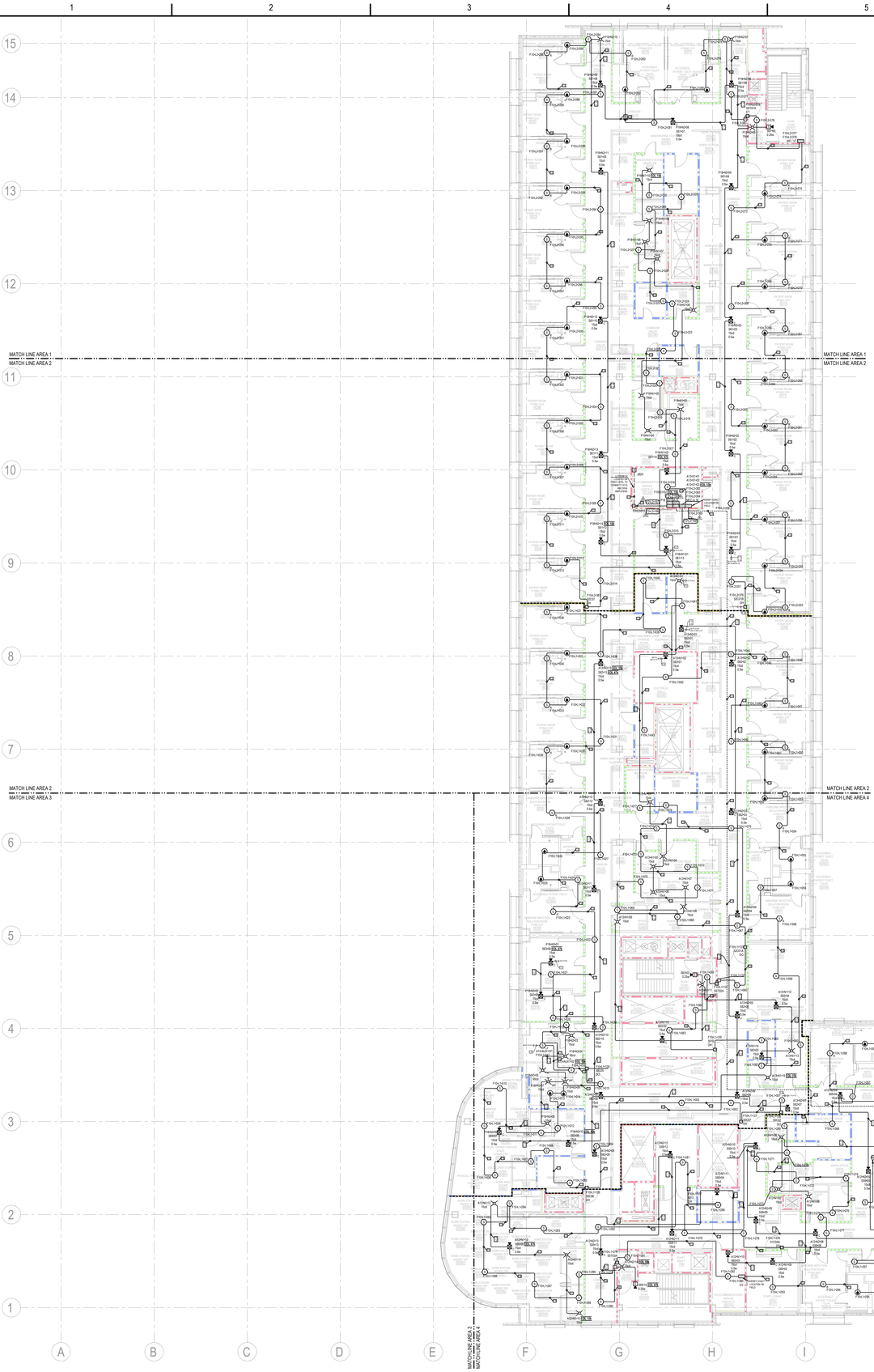
Project

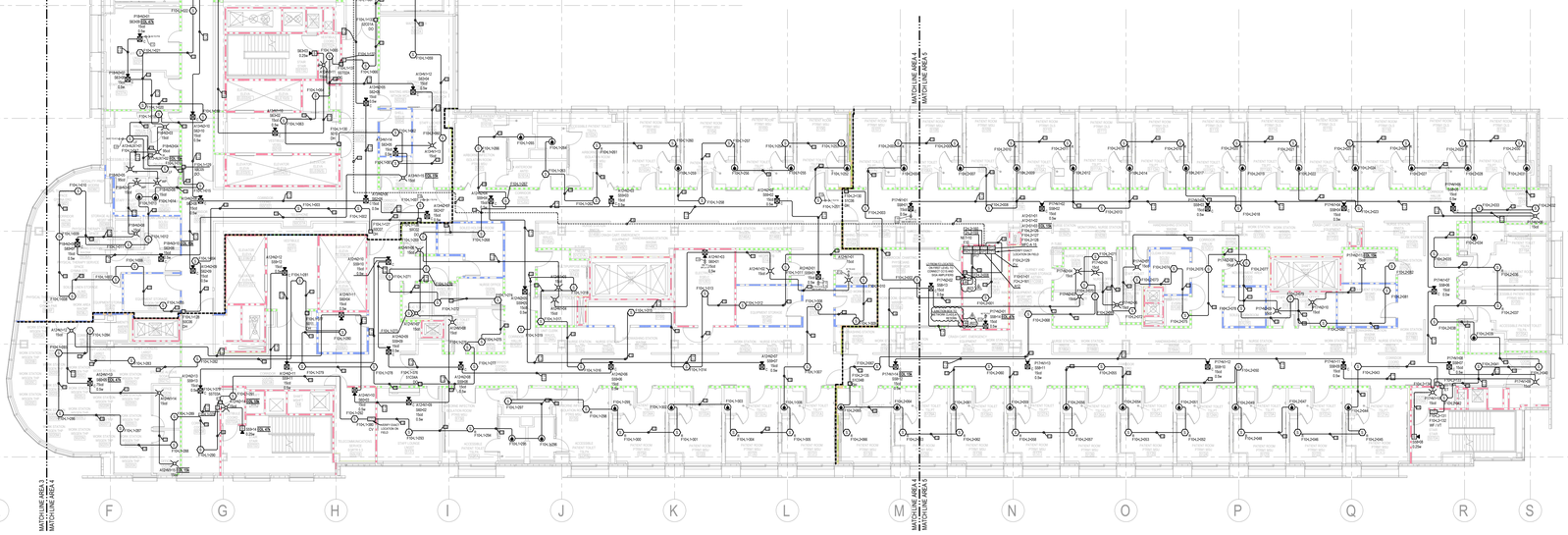
Title
LEVEL 5 ISOLATORS LAYOUT

Building ID:	Floor Lev:
Scale 1/16 = 1'-0"	KP Proj. No.
Dwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA105.A

ORIGINAL SHEET - ARCH E1





N

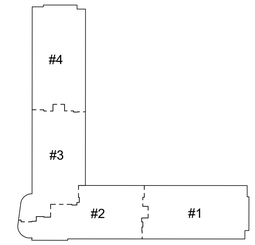
WIRE LEGEND

- SLC CIRCUIT
- NAC CIRCUIT
- POWER CIRCUIT
- SPEAKER CIRCUIT
- IDC CIRCUIT
- NETWORK CIRCUIT
- AUDIO RISER
- SLC CIRCUITS IN CLASS A

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

SMOKE COMPARTMENT KEYPLAN



LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

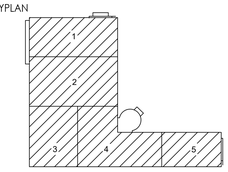
LEVEL 5 DEVICE LAYOUT

SCALE 1/16" = 1'

Consultant

Architect / Engineer of Record

KEYPLAN



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INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04
Issued	By	Appd	YYYY.MM.DD

Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Agency Approval

OSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

Project

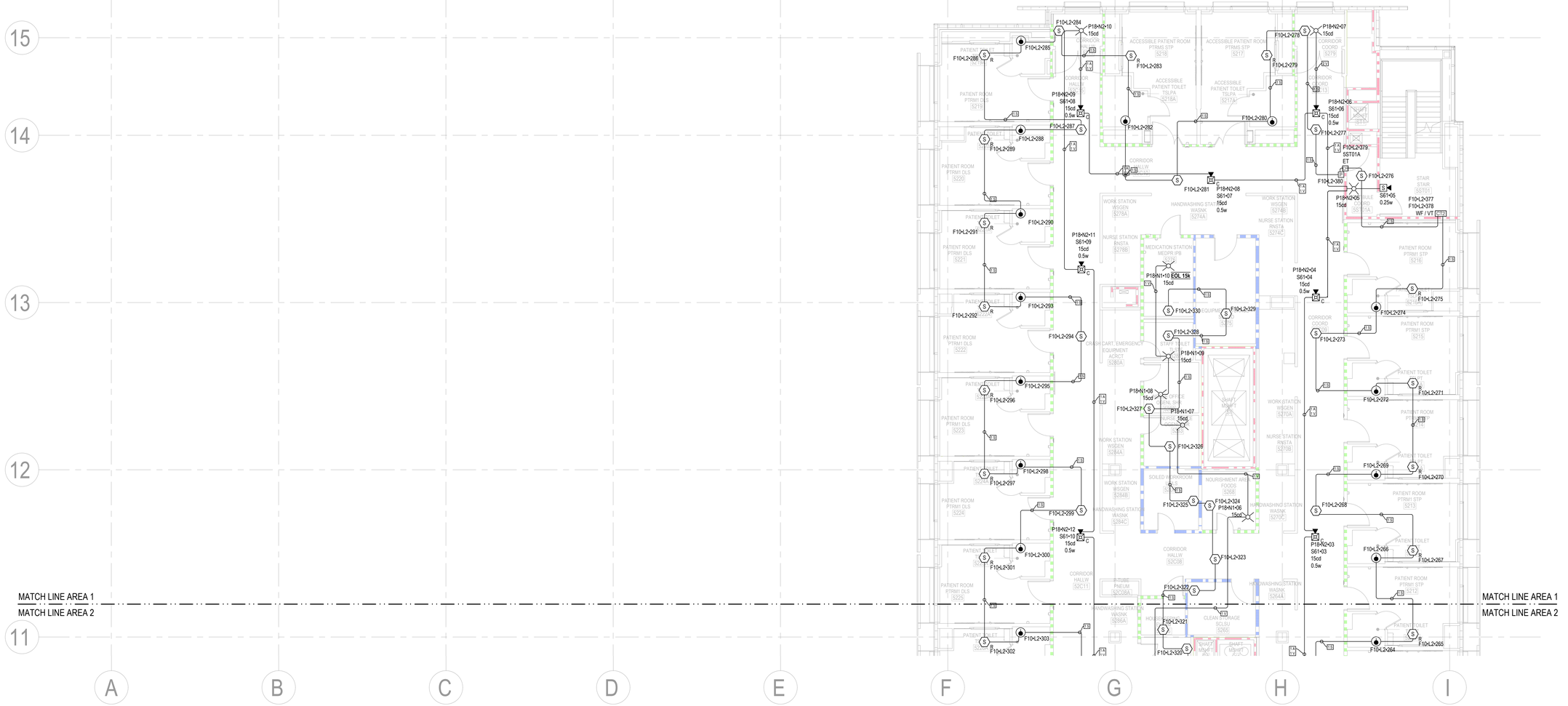
Title
LEVEL 5 GENERAL DEVICES LAYOUT

Building ID	Floor Lev.
Scale 1/16 = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet **H-FA105.B**

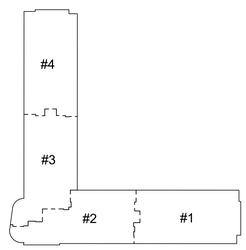
ORIGINAL SHEET - ARCH E1

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).



SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- SLC CIRCUIT
- NAC CIRCUIT
- POWER CIRCUIT
- SPEAKER CIRCUIT
- IDC CIRCUIT
- NETWORK CIRCUIT
- AUDIO RISER
- SLC CIRCUITS IN CLASS A

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 5 - AREA 1

SCALE 1/8" = 1'

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

N

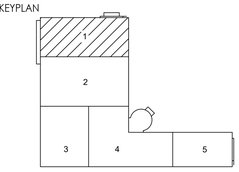
RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

Consultant

Architect / Engineer of Record

KEYPLAN



Revision

	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued

	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Agency Approval

DSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

Project

Title

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 5 - AREA 1

Building ID:	Floor Lev:
Scale 1/8 = 1'-0"	KP Proj. No.
Dwn By LW	Stantec No.
Chckd By VL	Sheet

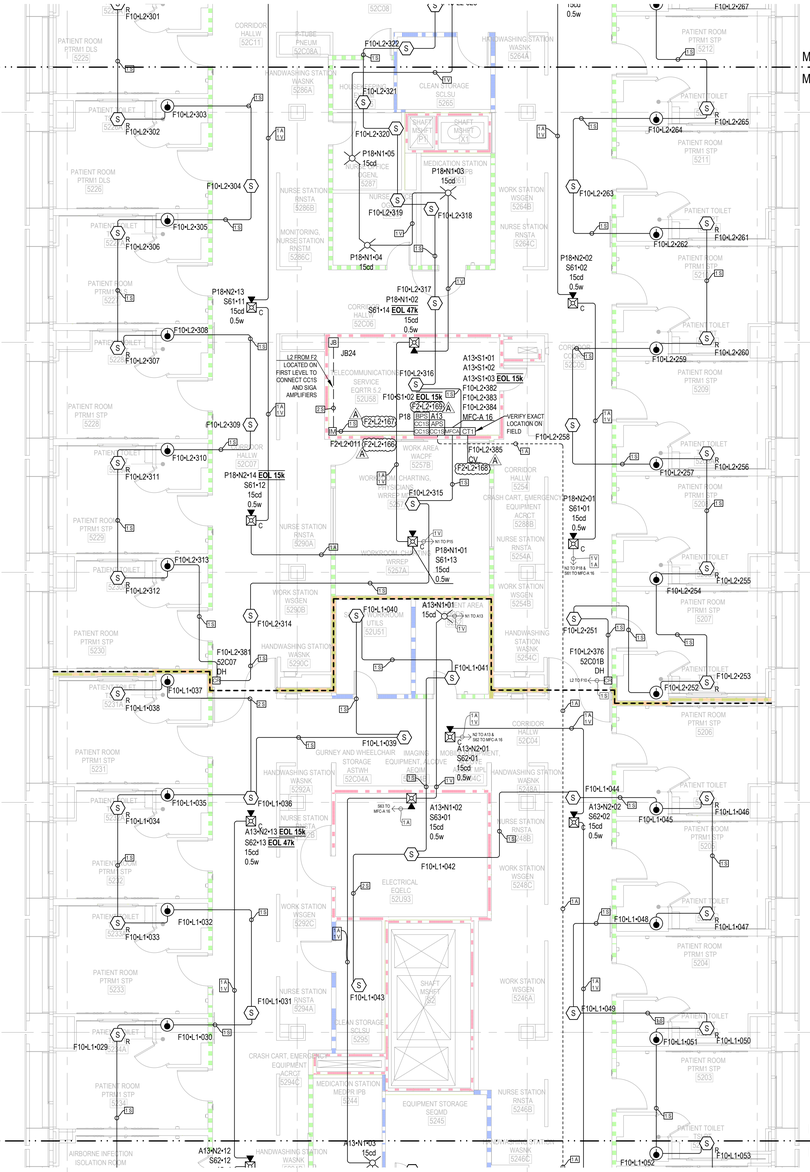
H-FA205.1.B

ORIGINAL SHEET - ARCH E1

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

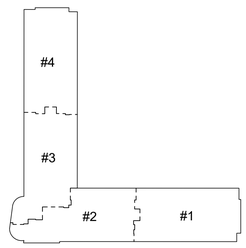
MATCH LINE AREA 1
MATCH LINE AREA 2



MATCH LINE AREA 2
MATCH LINE AREA 3

MATCH LINE AREA 2
MATCH LINE AREA 4

SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- SLC CIRCUIT (1 S)
- NAC CIRCUIT (1 V)
- POWER CIRCUIT (1 P)
- SPEAKER CIRCUIT (1 A)
- IDC CIRCUIT (1 Z)
- NETWORK CIRCUIT (1 N)
- AUDIO RISER (1 A)
- SLC CIRCUITS IN CLASS A (1 S)

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 5 - AREA 2

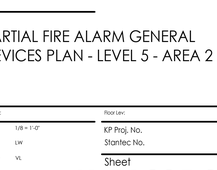
SCALE 1/8" = 1'

N

Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd.

Agency Approval

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INCREMENT 4 - I230010-43-04

Facility

Project

Title
PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 5 - AREA 2

Building ID:	Floor Lev:
Scale 1/8" = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA205.2.B

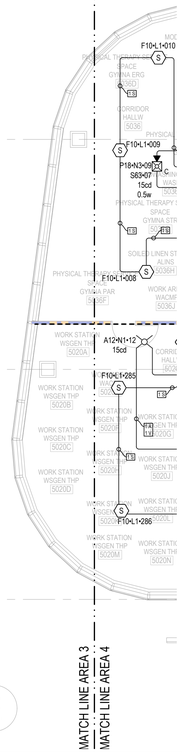
ORIGINAL SHEET - ARCH E1

MATCH LINE AREA 2

MATCH LINE AREA 3

KEYNOTES

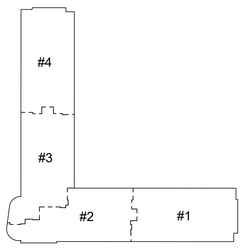
1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).



MATCH LINE AREA 3

MATCH LINE AREA 4

SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- 1 S — SLC CIRCUIT
- 1 V — NAC CIRCUIT
- 1 P — POWER CIRCUIT
- 1 A — SPEAKER CIRCUIT
- 1 Z — IDC CIRCUIT
- 1 N — NETWORK CIRCUIT
- 1 A — AUDIO RISER
- 1 S — SLC CIRCUITS IN CLASS A

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 5 - AREA 3

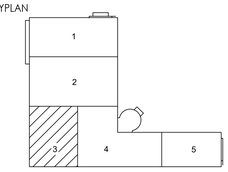
SCALE 1/8" = 1'

N

Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04
Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Agency Approval

OSHPD No. I230010-43-00

INCREMENT 4 - I230010-43-04

Facility

Project

Title

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 5 - AREA 3

Building ID:	Floor Lev:
Scale 1/8" = 1'-0"	KP Proj. No.
Dwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA205.3.B

ORIGINAL SHEET - ARCH E1

MATCH LINE AREA 2
MATCH LINE AREA 4

MATCH LINE AREA 4
MATCH LINE AREA 5

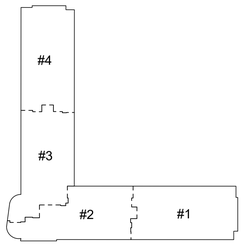
MATCH LINE AREA 3
MATCH LINE AREA 4

MATCH LINE AREA 4
MATCH LINE AREA 5

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- SLC CIRCUIT (1S)
- NAC CIRCUIT (1V)
- POWER CIRCUIT (1P)
- SPEAKER CIRCUIT (1A)
- IDC CIRCUIT (1Z)
- NETWORK CIRCUIT (1N)
- AUDIO RISER (1A)
- SLC CIRCUITS IN CLASS A (1S)

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 5 - AREA 4

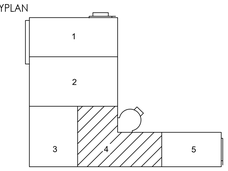
SCALE 1/8" = 1'

N

Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd.

Agency Approval
OSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

Project

Title
PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 5 - AREA 4

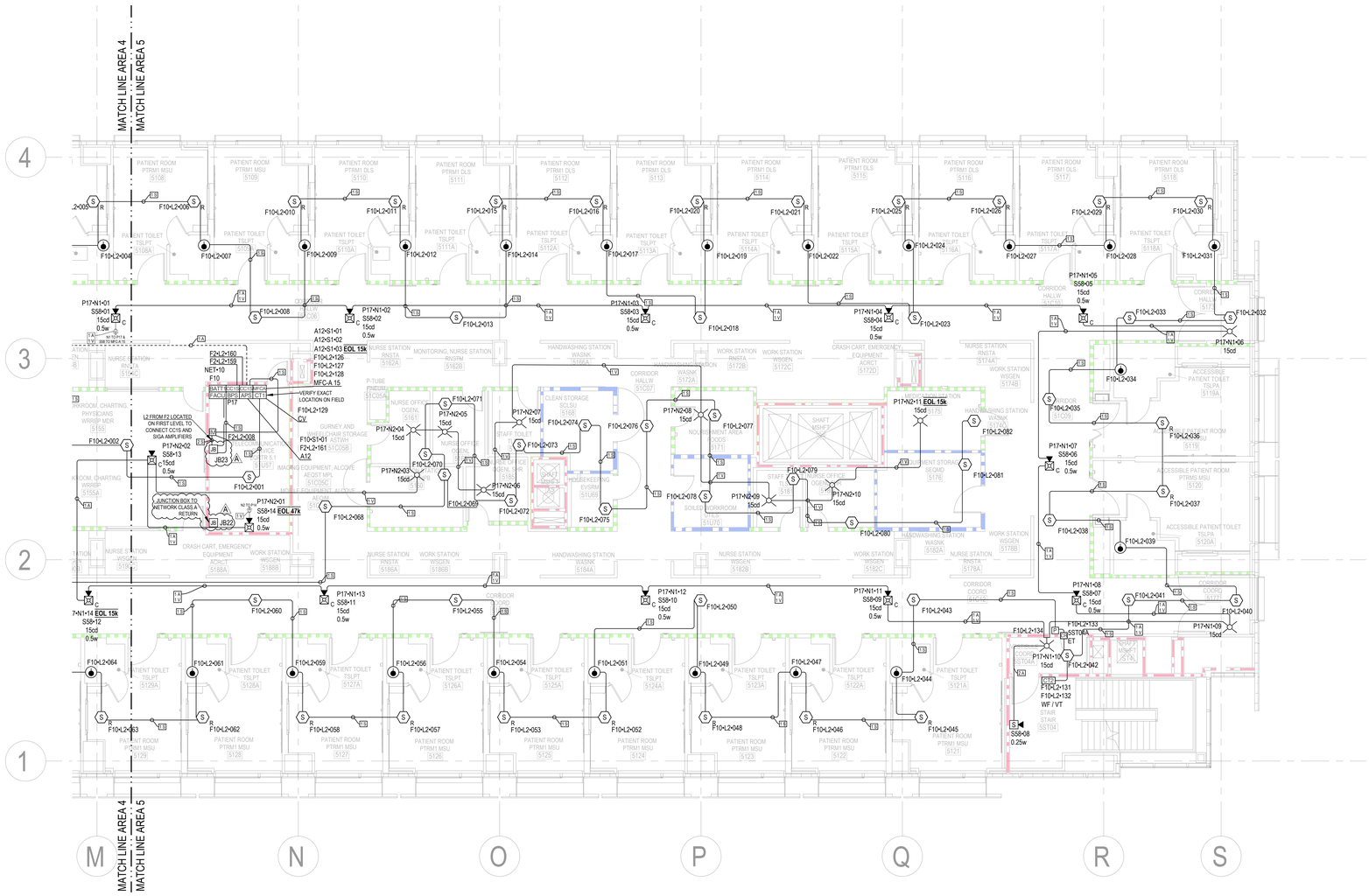
Building ID:	Floor Lev:
Scale 1/8" = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA205.4.B

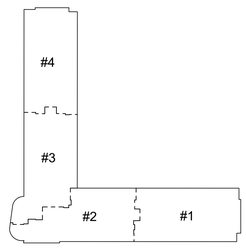
ORIGINAL SHEET - ARCH E1

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).



SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- SLC CIRCUIT
- NAC CIRCUIT
- POWER CIRCUIT
- SPEAKER CIRCUIT
- IDC CIRCUIT
- NETWORK CIRCUIT
- AUDIO RISER
- SLC CIRCUITS IN CLASS A

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

N

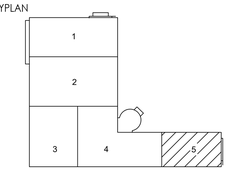
PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 5 - AREA 5

SCALE 1/8" = 1'

Consultant

Architect / Engineer of Record

KEYPLAN



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INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd.

Agency Approval

OSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

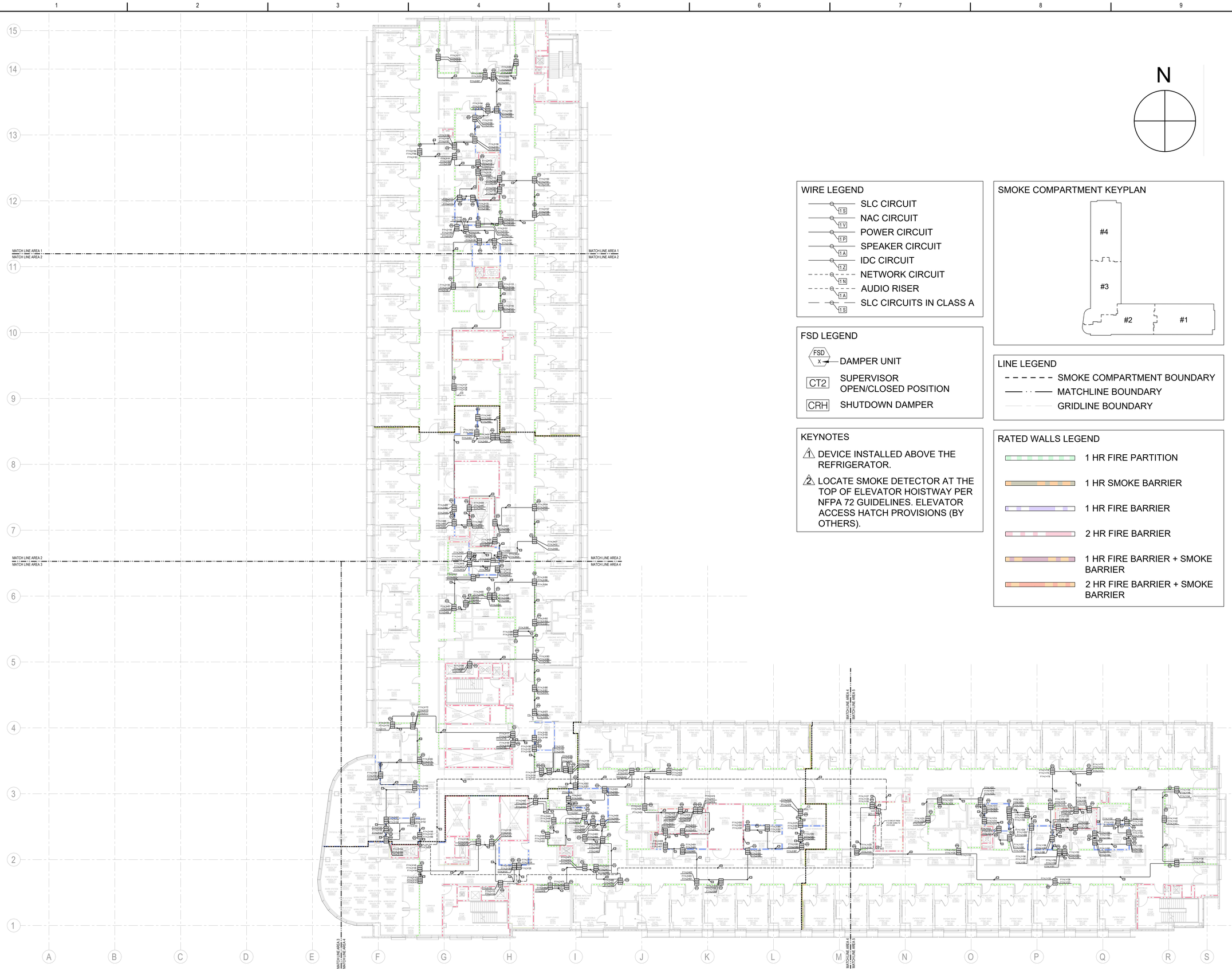
Project

Title

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 5 - AREA 5

Building ID:		Floor Lev:	
Scale	1/8" = 1'-0"	KP Proj. No.	
Drwn By	LW	Stantec No.	
Chckd By	VL	Sheet	H-FA205.5.B

ORIGINAL SHEET - ARCH 81



N

WIRE LEGEND

- SLC CIRCUIT (1 S)
- NAC CIRCUIT (1 V)
- POWER CIRCUIT (1 P)
- SPEAKER CIRCUIT (1 A)
- IDC CIRCUIT (1 Z)
- NETWORK CIRCUIT (1 N)
- AUDIO RISER (1 A)
- SLC CIRCUITS IN CLASS A (1 S)

FSD LEGEND

- FSD / X — DAMPER UNIT
- CT2 — SUPERVISOR OPEN/CLOSED POSITION
- CRH — SHUTDOWN DAMPER

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

SMOKE COMPARTMENT KEYPLAN

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

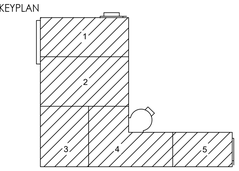
LEVEL 5 FSDs DEVICES LAYOUT

SCALE 1/16" = 1'

Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04
Issued	By	Appd	YYYY.MM.DD

Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Agency Approval

OSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

Project

Title
LEVEL 5 FSDs DEVICES LAYOUT

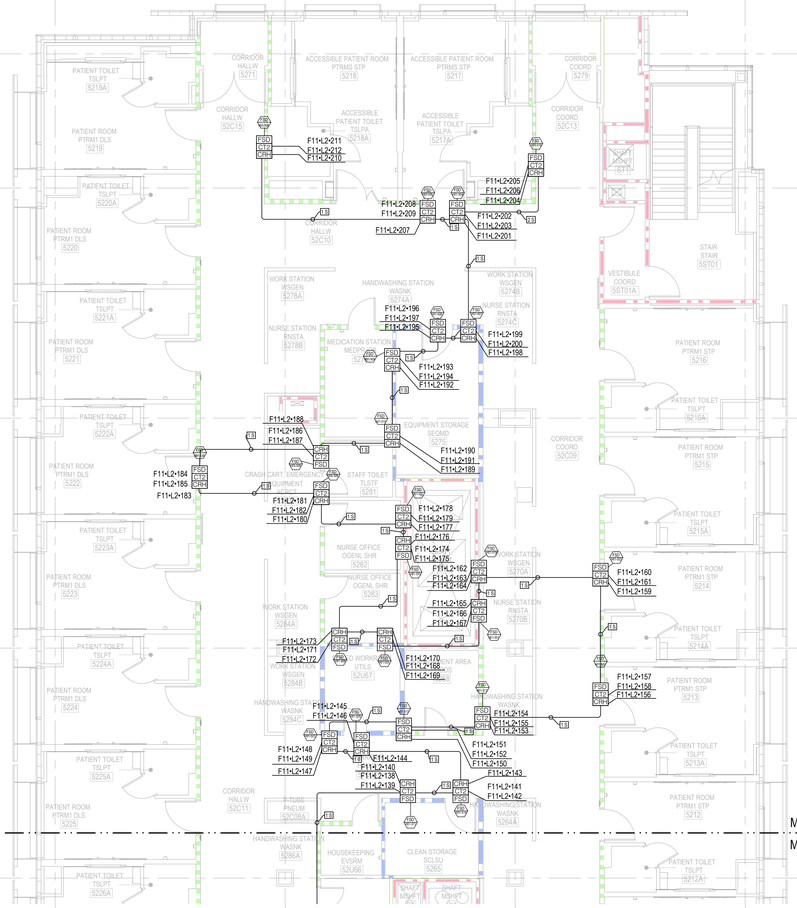
Building ID:	Floor Lev:
Scale 1/16 = 1'-0"	KP Proj. No.
Dwn By LW	Stantec No.
Chkd By VL	Sheet

H-FA105.C

ORIGINAL SHEET - ARCH E1

KEYNOTES

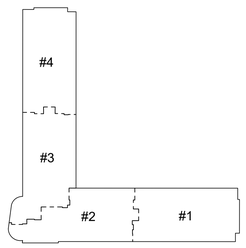
1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).



MATCH LINE AREA 1
MATCH LINE AREA 2

MATCH LINE AREA 1
MATCH LINE AREA 2

SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- SLC CIRCUIT (1 S)
- NAC CIRCUIT (1 V)
- POWER CIRCUIT (1 P)
- SPEAKER CIRCUIT (1 A)
- IDC CIRCUIT (1 Z)
- NETWORK CIRCUIT (1 N)
- AUDIO RISER (1 A)
- SLC CIRCUITS IN CLASS A (1 S)

PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 5 - AREA 1

SCALE 1/8" = 1'

N

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

FSD LEGEND

- FSD X — DAMPER UNIT
- CT2 — SUPERVISOR OPEN/ CLOSED POSITION
- CRH — SHUTDOWN DAMPER

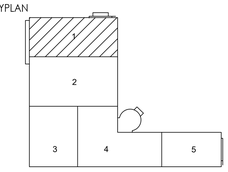
RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

Consultant

Architect / Engineer of Record

KEYPLAN



Revision

	By	Appd	YYYY.MM.DD

INCREMENT 4 SEG 3B SUBMISSION #1 — 2025.03.04

Issued

	By	Appd	YYYY.MM.DD
Dwn.	Dsgn.	Chkd.	

Agency Approval

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INCREMENT 4 - I230010-43-04

Facility

Project

Title

PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 5 - AREA 1

Building ID:	Floor Lev:
Scale 1/8" = 1'-0"	KP Proj. No.
Dwn By LW	Stantec No.
Chckd By VL	Sheet

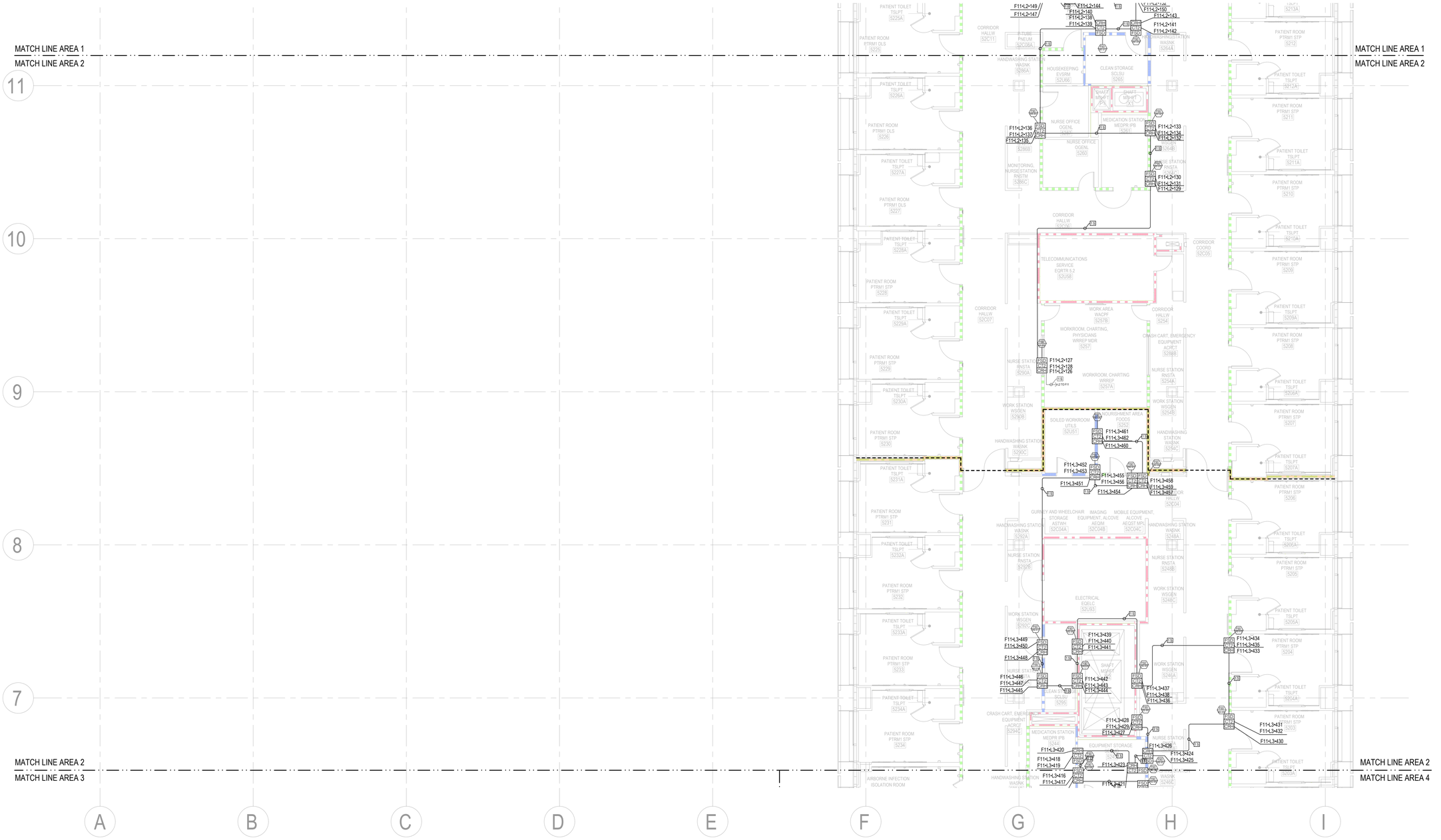
H-FA205.1.C

ORIGINAL SHEET - ARCH 01

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

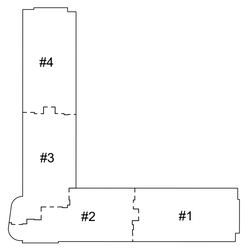
MATCH LINE AREA 1
MATCH LINE AREA 2



MATCH LINE AREA 2
MATCH LINE AREA 3

MATCH LINE AREA 2
MATCH LINE AREA 4

SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- T S — SLC CIRCUIT
- T V — NAC CIRCUIT
- T P — POWER CIRCUIT
- T A — SPEAKER CIRCUIT
- T Z — IDC CIRCUIT
- T N — NETWORK CIRCUIT
- T A — AUDIO RISER
- T S — SLC CIRCUITS IN CLASS A

PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 5 - AREA 2

SCALE 1/8" = 1'

N

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

FSD LEGEND

- FSD / X — DAMPER UNIT
- CT2 — SUPERVISOR OPEN/ CLOSED POSITION
- CRH — SHUTDOWN DAMPER

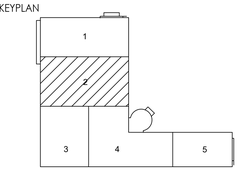
RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

Consultant

Architect / Engineer of Record

KEYPLAN



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Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Agency Approval

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INCREMENT 4 - I230010-43-04

Facility

Project

Title
PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 5 - AREA 2

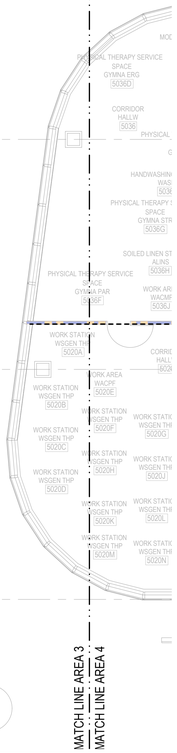
Building ID:	Floor Lev:
Scale 1/8 = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA205.2.C

ORIGINAL SHEET - ARCH E1

MATCH LINE AREA 2

MATCH LINE AREA 3



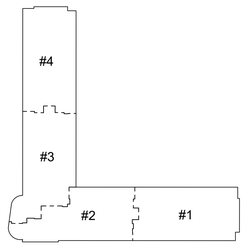
MATCH LINE AREA 3

MATCH LINE AREA 4

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- SLC CIRCUIT (1 S)
- NAC CIRCUIT (1 V)
- POWER CIRCUIT (1 P)
- SPEAKER CIRCUIT (1 A)
- IDC CIRCUIT (1 Z)
- NETWORK CIRCUIT (1 N)
- AUDIO RISER (1 A)
- SLC CIRCUITS IN CLASS A (1 S)

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 5 - AREA 3

SCALE 1/8" = 1'

N

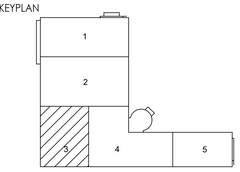
FSD LEGEND

- FSD / X — DAMPER UNIT
- CT2 — SUPERVISOR OPEN/ CLOSED POSITION
- CRH — SHUTDOWN DAMPER

Consultant

Architect / Engineer of Record

KEYPLAN



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INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

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Agency Approval

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INCREMENT 4 - I230010-43-04

Facility

Project

Title

PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 5 - AREA 3

Building ID:	Floor Lev:
Scale 1/8" = 1'-0"	KP Proj. No.
Dwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA205.3.C

ORIGINAL SHEET - ARCH E1

MATCH LINE AREA 2
MATCH LINE AREA 4

MATCH LINE AREA 4
MATCH LINE AREA 5

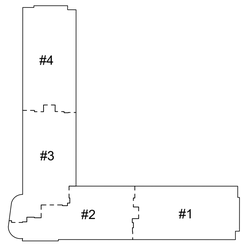
MATCH LINE AREA 3
MATCH LINE AREA 4

MATCH LINE AREA 4
MATCH LINE AREA 5

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- SLC CIRCUIT
- NAC CIRCUIT
- POWER CIRCUIT
- SPEAKER CIRCUIT
- IDC CIRCUIT
- NETWORK CIRCUIT
- AUDIO RISER
- SLC CIRCUITS IN CLASS A

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

FSD LEGEND

- DAMPER UNIT
- CT2 SUPERVISOR OPEN/ CLOSED POSITION
- CRH SHUTDOWN DAMPER

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 5 - AREA 4

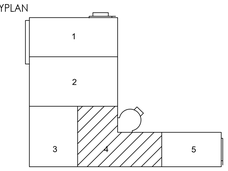
SCALE 1/8" = 1'

N

Consultant

Architect / Engineer of Record

KEYPLAN



Revision

	By	Appd	YYYY.MM.DD

INCREMENT 4 SEG 3B SUBMISSION #1

Issued

	By	Appd	2025.03.04
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

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INCREMENT 4 - I230010-43-04

Facility

Project

Title

PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 5 - AREA 4

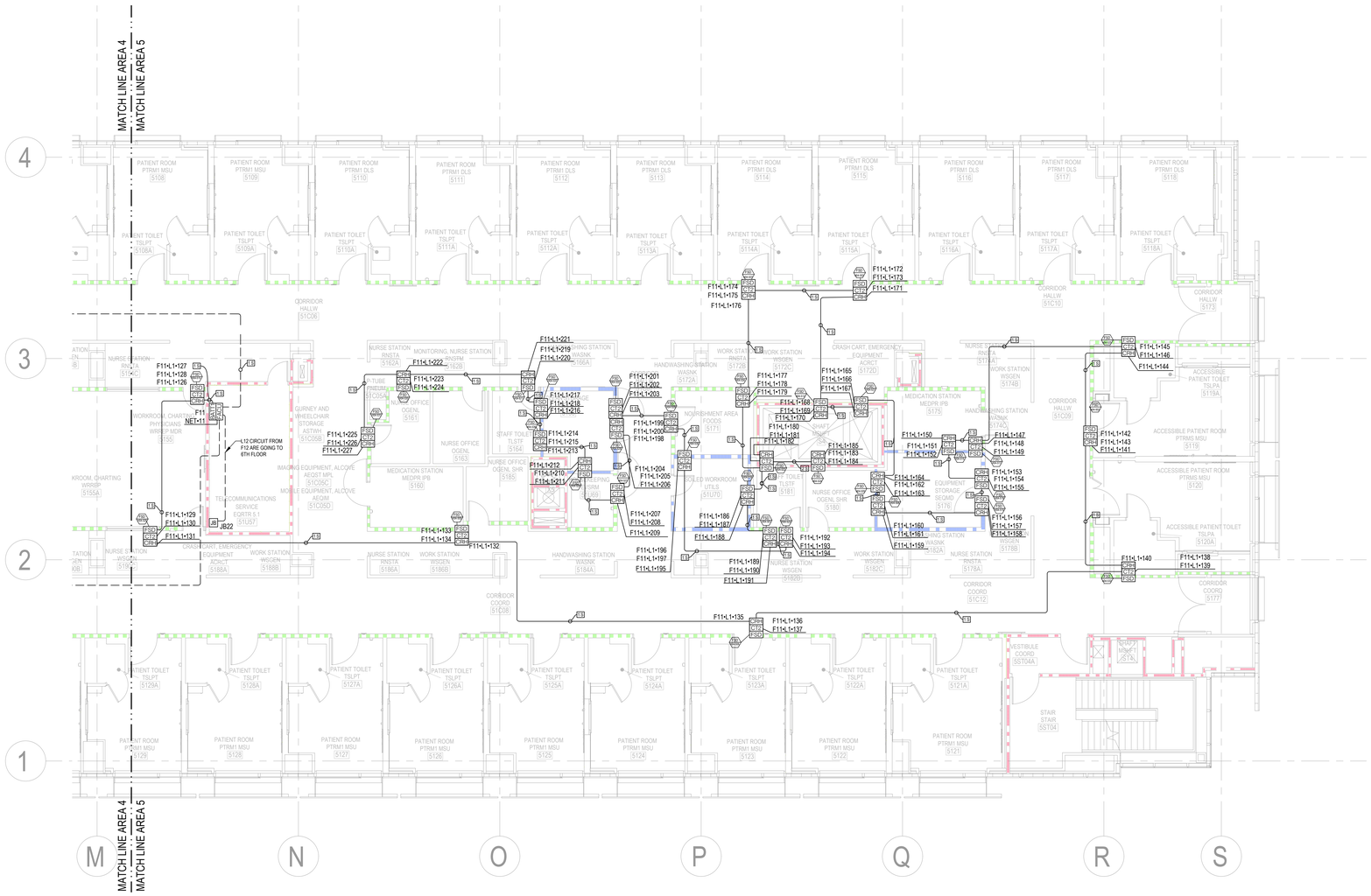
Building ID:	Floor Lev:
Scale 1/8" = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA205.4.C

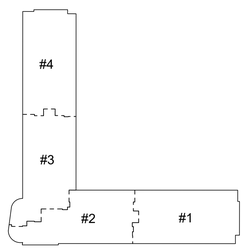
ORIGINAL SHEET - ARCH E1

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).



SMOKE COMPARTMENT KEYPLAN



WIRE LEGEND

- SLC CIRCUIT (1S)
- NAC CIRCUIT (1V)
- POWER CIRCUIT (1P)
- SPEAKER CIRCUIT (1A)
- IDC CIRCUIT (1Z)
- NETWORK CIRCUIT
- AUDIO RISER (1N)
- SLC CIRCUITS IN CLASS A (1A)
- (1S)

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

FSD LEGEND

- FSD X — DAMPER UNIT
- CT2 — SUPERVISOR OPEN/ CLOSED POSITION
- CRH — SHUTDOWN DAMPER

PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 5 - AREA 5

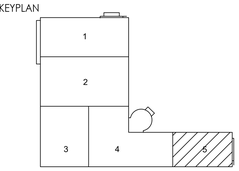
SCALE 1/8" = 1'

N

Consultant

Architect / Engineer of Record

KEYPLAN



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INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

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	Dwn.	Dsgn.	Chkd.

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INCREMENT 4 - I2300I0-43-04

Facility

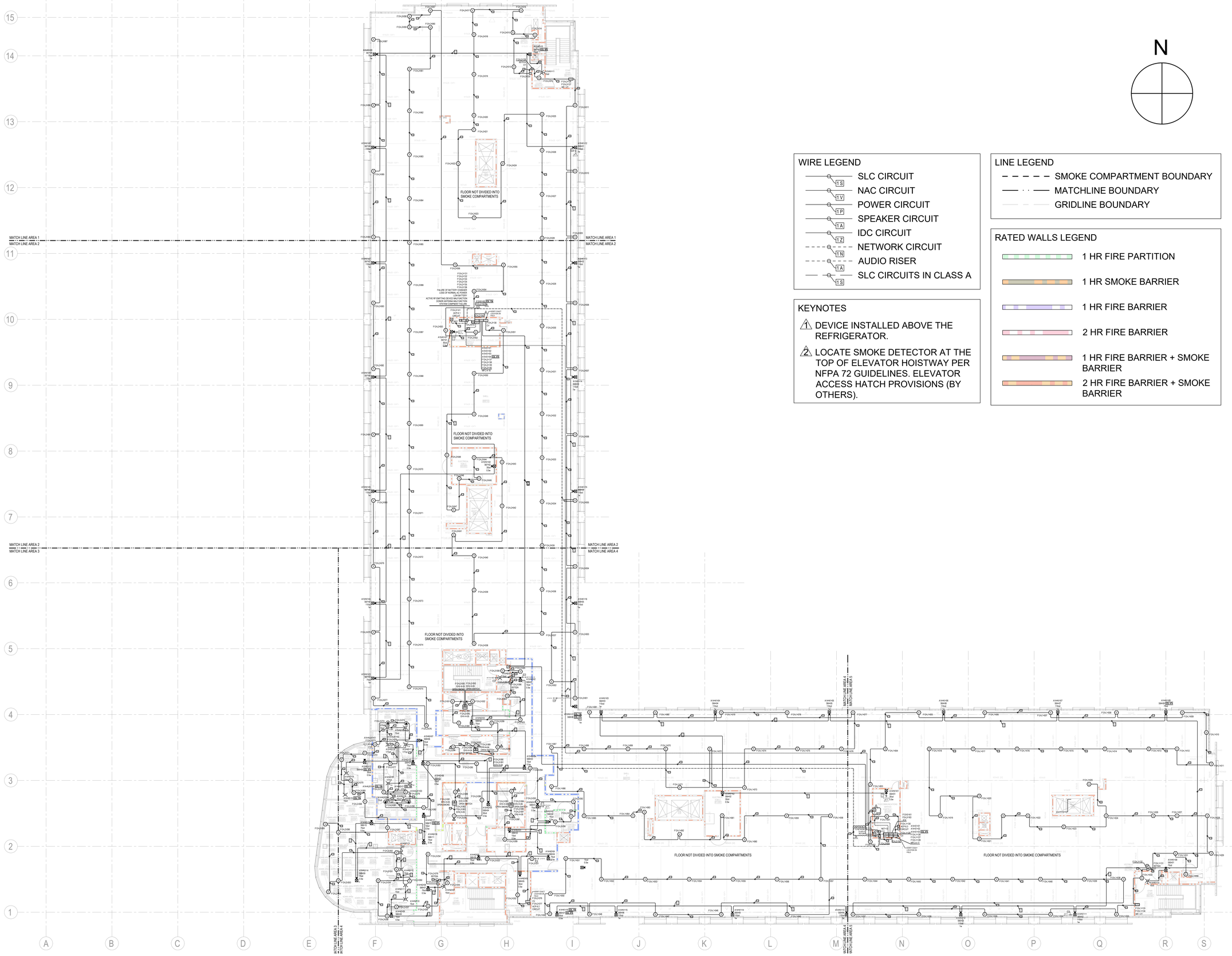
Project

Title
PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 5 - AREA 5

Building ID: | Floor Lev:
Scale 1/8 = 1'-0" | KP Proj. No.
Dwn By LW | Stantec No.
Chckd By VL | Sheet

H-FA205.5.C

ORIGINAL SHEET - ARCH E1



N

WIRE LEGEND

- SLC CIRCUIT (1 S)
- NAC CIRCUIT (1 V)
- POWER CIRCUIT (1 P)
- SPEAKER CIRCUIT (1 A)
- IDC CIRCUIT (1 Z)
- NETWORK CIRCUIT (1 N)
- AUDIO RISER (1 A)
- SLC CIRCUITS IN CLASS A (1 S)

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

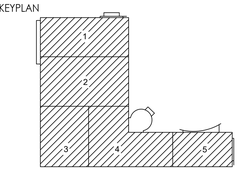
LEVEL 6 DEVICE LAYOUT

SCALE 1/16" = 1'

Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd.

Agency Approval

OSHPD No. 123010-43-00
INCREMENT 4 - 123010-43-04

Facility

Project

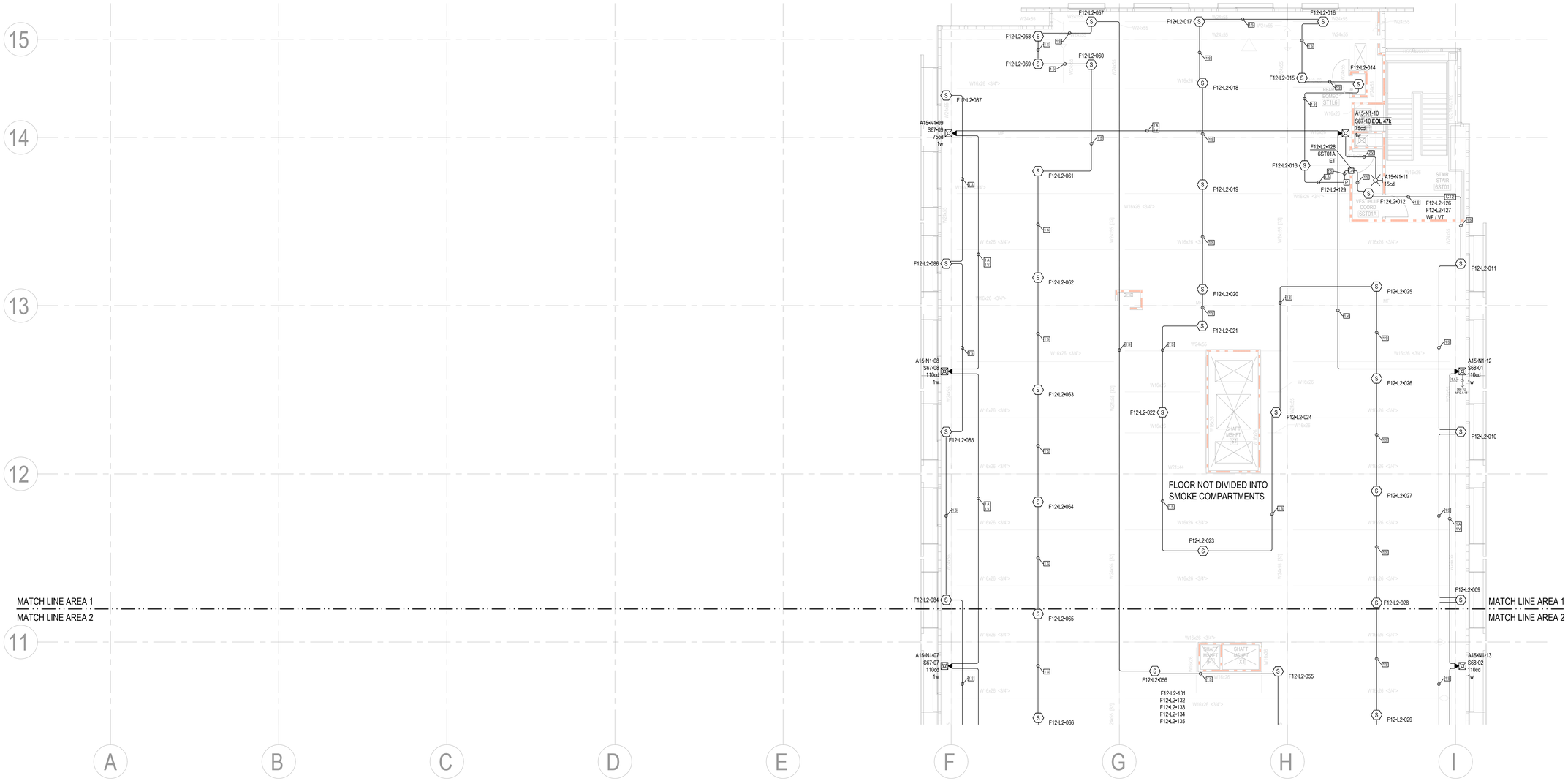
Title
LEVEL 6 GENERAL DEVICES LAYOUT

Building ID: Floor Lev.:
Scale 1/16 = 1'-0"
Drwn By LW
Chckd By VL
KP Proj. No.
Stantec No.
Sheet
H-FA106.A

ORIGINAL SHEET - ARCH E1

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).



WIRE LEGEND

- SLC CIRCUIT
- NAC CIRCUIT
- POWER CIRCUIT
- SPEAKER CIRCUIT
- IDC CIRCUIT
- NETWORK CIRCUIT
- AUDIO RISER
- SLC CIRCUITS IN CLASS A

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

N

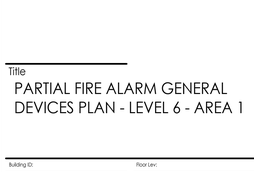
PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 6 - AREA 1

SCALE 1/8" = 1'

Consultant

Architect / Engineer of Record

KEYPLAN



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	Dwn.	Dsgn.	Chkd.

Agency Approval

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INCREMENT 4 - I230010-43-04

Facility

Project

Title

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 6 - AREA 1

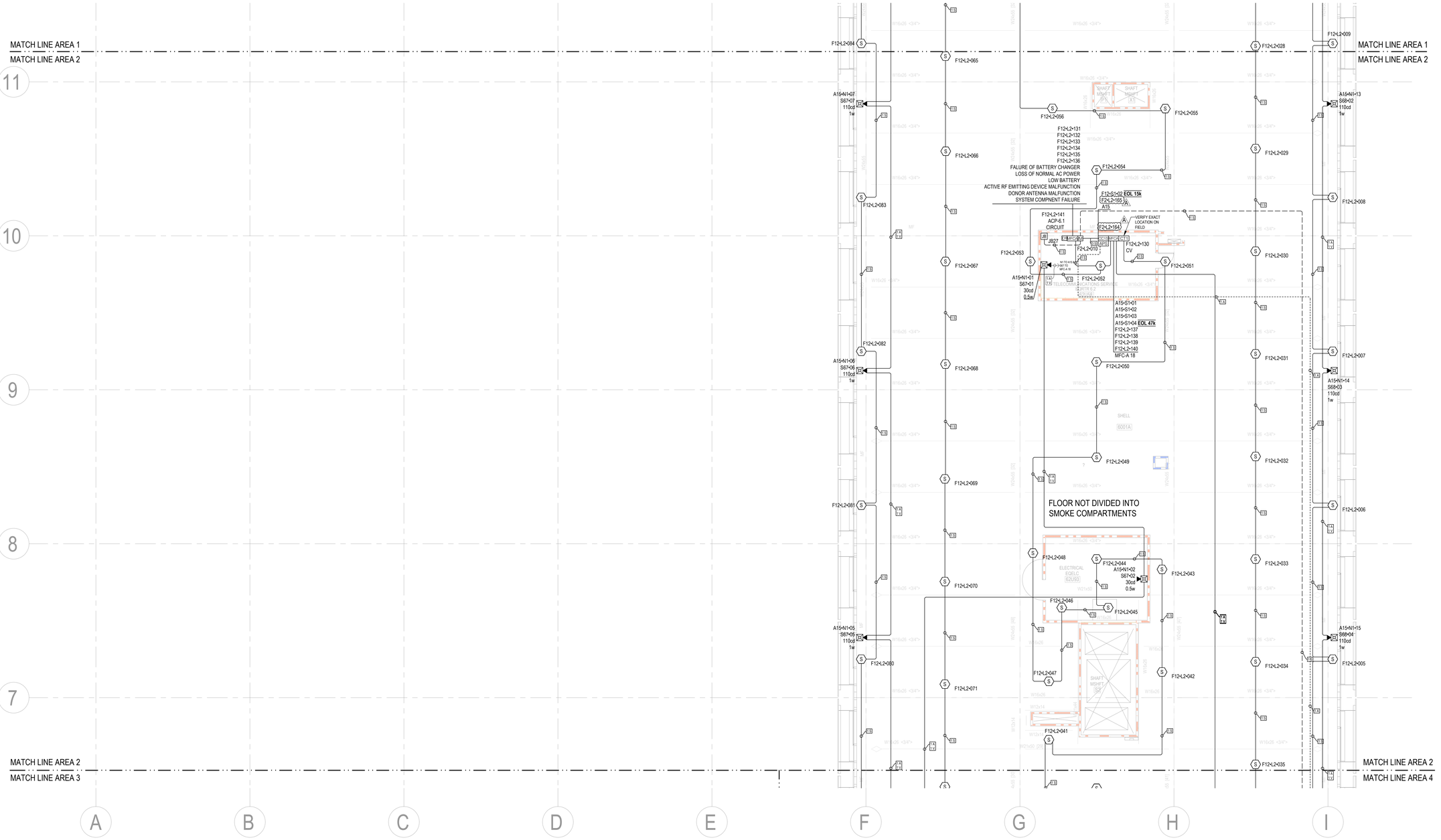
Building ID:	Floor Lev.:
Scale 1/8" = 1'-0"	KP Proj. No.
Dwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA206.1.A

ORIGINAL SHEET - ARCH E1

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).



WIRE LEGEND

- SLC CIRCUIT (1 S)
- NAC CIRCUIT (1 V)
- POWER CIRCUIT (1 P)
- SPEAKER CIRCUIT (1 A)
- IDC CIRCUIT (1 Z)
- NETWORK CIRCUIT (1 N)
- AUDIO RISER (1 A)
- SLC CIRCUITS IN CLASS A (1 S)

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 6 - AREA 2

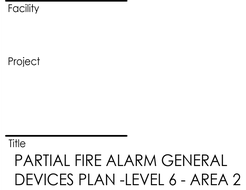
SCALE 1/8" = 1'

N

Consultant

Architect / Engineer of Record

KEYPLAN



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	Dwn.	Dsgn.	Chkd.

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INCREMENT 4 - I230010-43-04

Facility

Project

Title

PARTIAL FIRE ALARM GENERAL DEVICES PLAN -LEVEL 6 - AREA 2

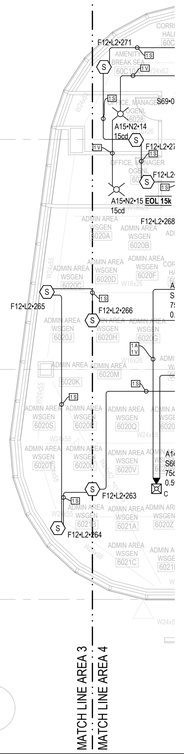
Building ID:	Floor Lev:
Scale 1/8" = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA206.2.A

ORIGINAL SHEET - ARCH E1

MATCH LINE AREA 2

MATCH LINE AREA 3



MATCH LINE AREA 3

MATCH LINE AREA 4

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

WIRE LEGEND

- SLC CIRCUIT (T S)
- NAC CIRCUIT (T V)
- POWER CIRCUIT (T P)
- SPEAKER CIRCUIT (T A)
- IDC CIRCUIT (T Z)
- NETWORK CIRCUIT (T N)
- AUDIO RISER (T A)
- SLC CIRCUITS IN CLASS A (T S)

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

N

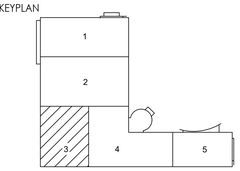
PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 6 - AREA 3

SCALE 1/8" = 1'

Consultant

Architect / Engineer of Record

KEYPLAN



Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04

Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Agency Approval

OSHPD No. 123001D-43-00
INCREMENT 4 - 123001D-43-04

Facility

Project

Title

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 6 - AREA 3

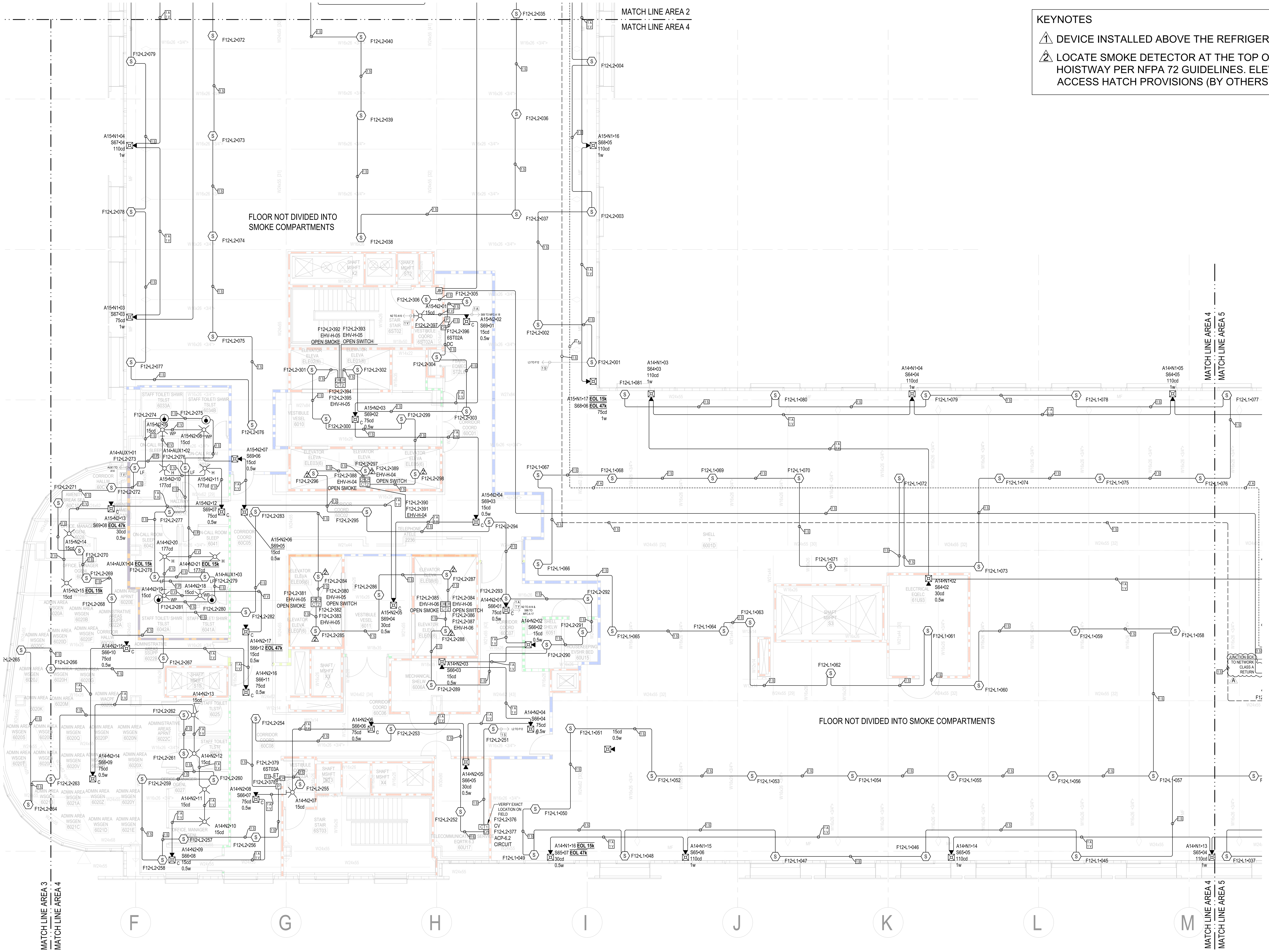
Building ID:	Floor Lev:
Scale 1/8" = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA206.3.A

ORIGINAL SHEET - ARCH E1

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).



WIRE LEGEND

1S	SLC CIRCUIT
1V	NAC CIRCUIT
1P	POWER CIRCUIT
1A	SPEAKER CIRCUIT
1Z	IDC CIRCUIT
1N	NETWORK CIRCUIT
1A	AUDIO RISER
1S	SLC CIRCUITS IN CLASS A

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 6 - AREA 4

SCALE 1/8" = 1'

N

ORIGINAL SHEET - ARCH E1

Consultant

Architect / Engineer of Record

KEYPLAN

Revision	By	Appd	YYYY.MM.DD
INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04
Issued	By	Appd	YYYY.MM.DD
	Dwn. Dsgn.	Chkd.	YYYY.MM.DD

Agency Approval
OSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

Project

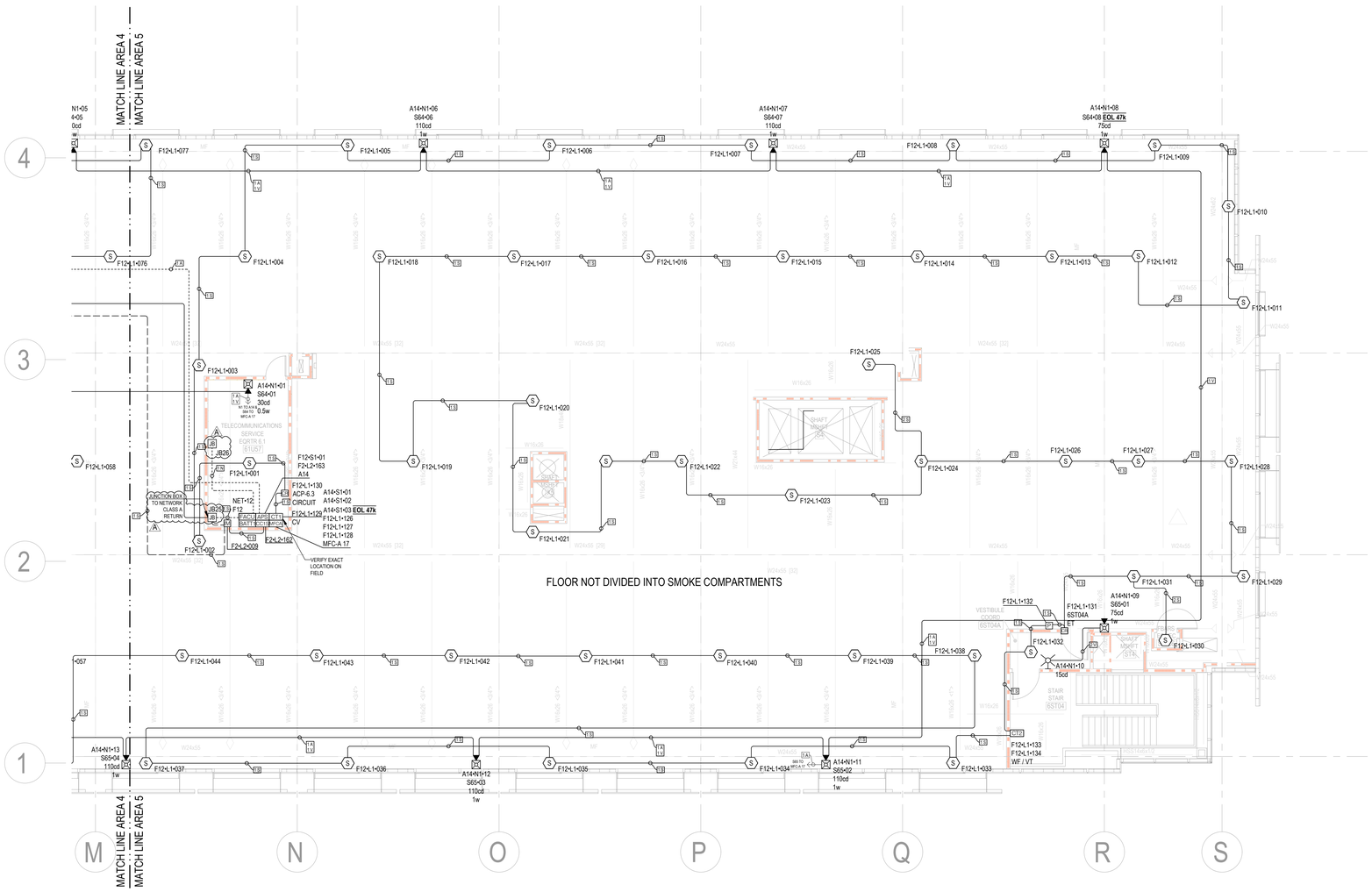
Title
PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 6 - AREA 4

Building ID: Floor Lev:
Scale 1/8 = 1'-0"
Drwn By LW
Chckd By VL
KP Proj. No.
Stantec No.

Sheet
H-FA206.4.A

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).



WIRE LEGEND

- SLC CIRCUIT (1S)
- NAC CIRCUIT (1V)
- POWER CIRCUIT (1P)
- SPEAKER CIRCUIT (1A)
- IDC CIRCUIT (1Z)
- NETWORK CIRCUIT (1N)
- AUDIO RISER (1A)
- SLC CIRCUITS IN CLASS A (1S)

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 6 - AREA 5

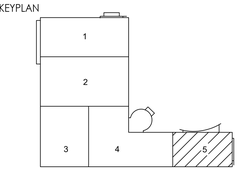
SCALE 1/8" = 1'

N

Consultant

Architect / Engineer of Record

KEYPLAN



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OSHPD No. I230010-43-00
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Facility

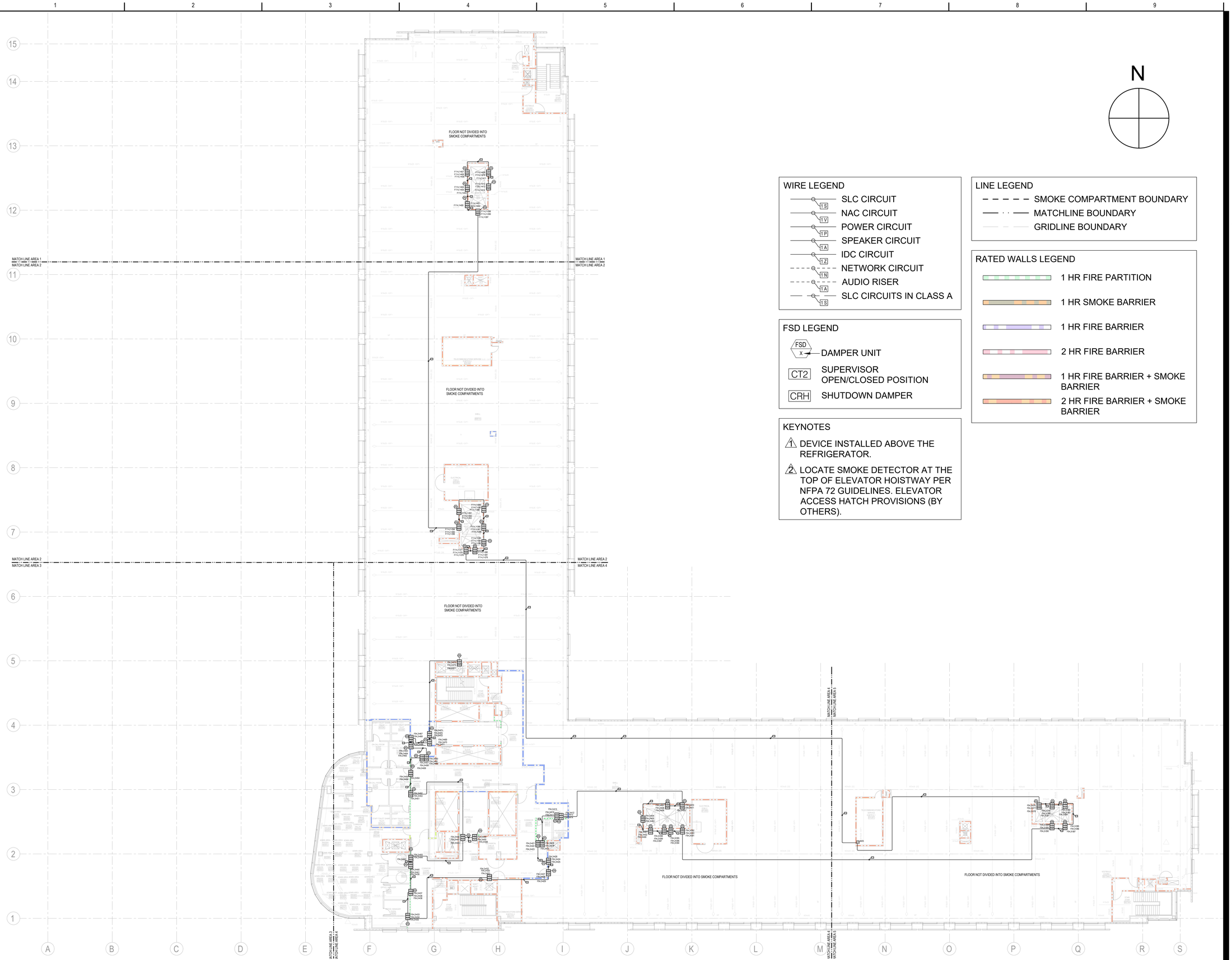
Project

Title
PARTIAL FIRE ALARM GENERAL DEVICES PLAN - LEVEL 6 - AREA 5

Building ID	Floor Lev.
Scale 1/8 = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA206.5.A

ORIGINAL SHEET - ARCH E1



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WIRE LEGEND

- 1 S — SLC CIRCUIT
- 1 V — NAC CIRCUIT
- 1 P — POWER CIRCUIT
- 1 A — SPEAKER CIRCUIT
- 1 Z — IDC CIRCUIT
- 1 N — NETWORK CIRCUIT
- 1 A — AUDIO RISER
- 1 S — SLC CIRCUITS IN CLASS A

FSD LEGEND

- FSD / X — DAMPER UNIT
- CT2 — SUPERVISOR OPEN/CLOSED POSITION
- CRH — SHUTDOWN DAMPER

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

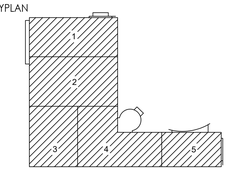
LEVEL 6 FSDs DEVICES LAYOUT

SCALE 1/16" = 1'

Consultant

Architect / Engineer of Record

KEYPLAN



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	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

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Facility

Project

Title
LEVEL 6 FSDs DEVICES LAYOUT

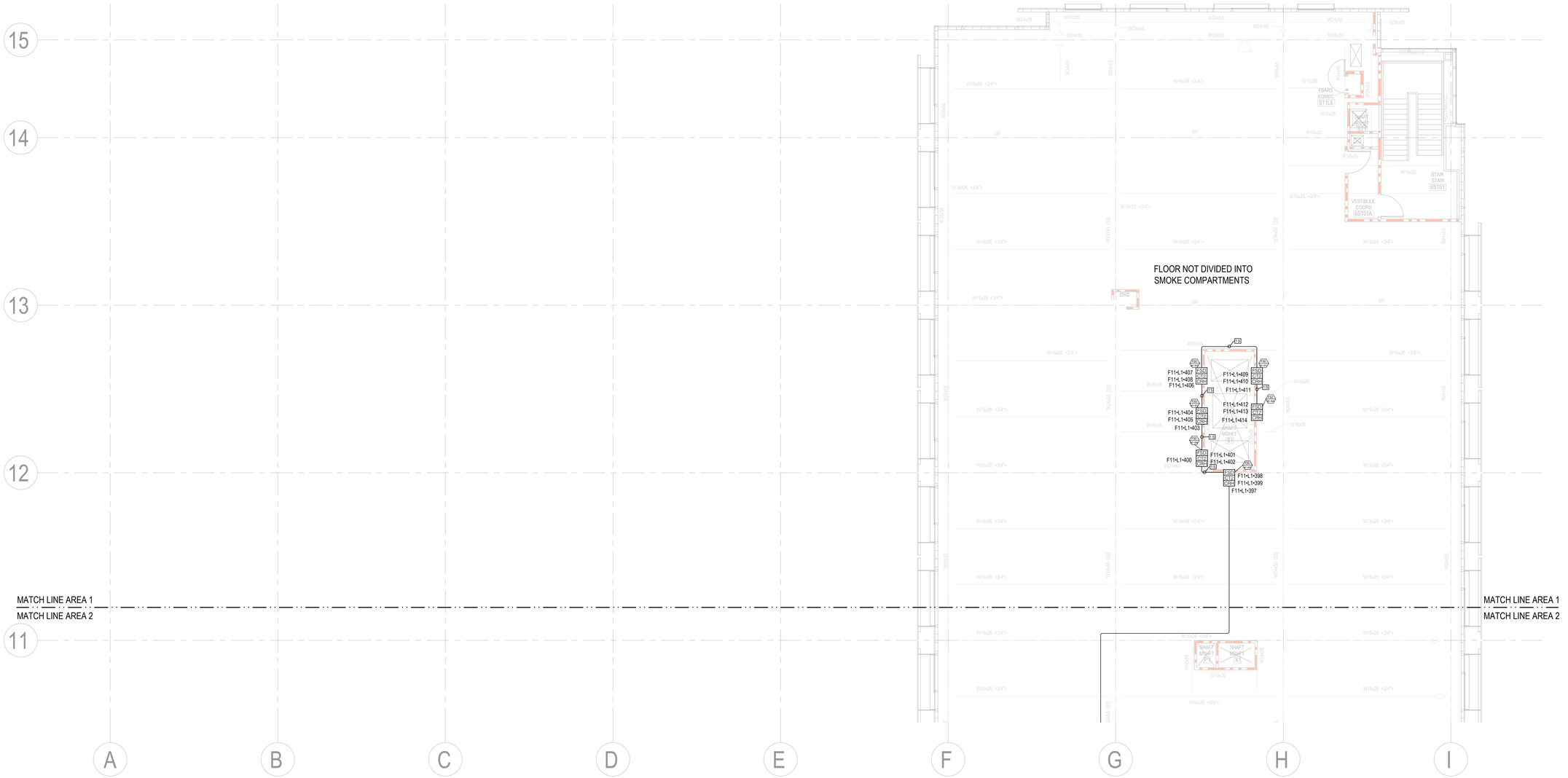
Building ID:	Floor Lev:
Scale 1/16 = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA106.B

ORIGINAL SHEET - ARCH E1

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).



WIRE LEGEND

- SLC CIRCUIT
- NAC CIRCUIT
- POWER CIRCUIT
- SPEAKER CIRCUIT
- IDC CIRCUIT
- NETWORK CIRCUIT
- AUDIO RISER
- SLC CIRCUITS IN CLASS A

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

FSD LEGEND

- DAMPER UNIT
- CT2 SUPERVISOR OPEN/ CLOSED POSITION
- CRH SHUTDOWN DAMPER

N

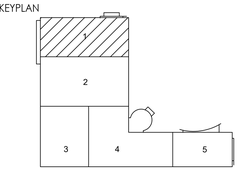
PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 6 - AREA 1

SCALE 1/8" = 1'

Consultant

Architect / Engineer of Record

KEYPLAN



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	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

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Facility

Project

Title
PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 6 - AREA 1

Building ID:	Floor Lev:
Scale 1/8" = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA206.1.B

ORIGINAL SHEET - ARCH E1

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
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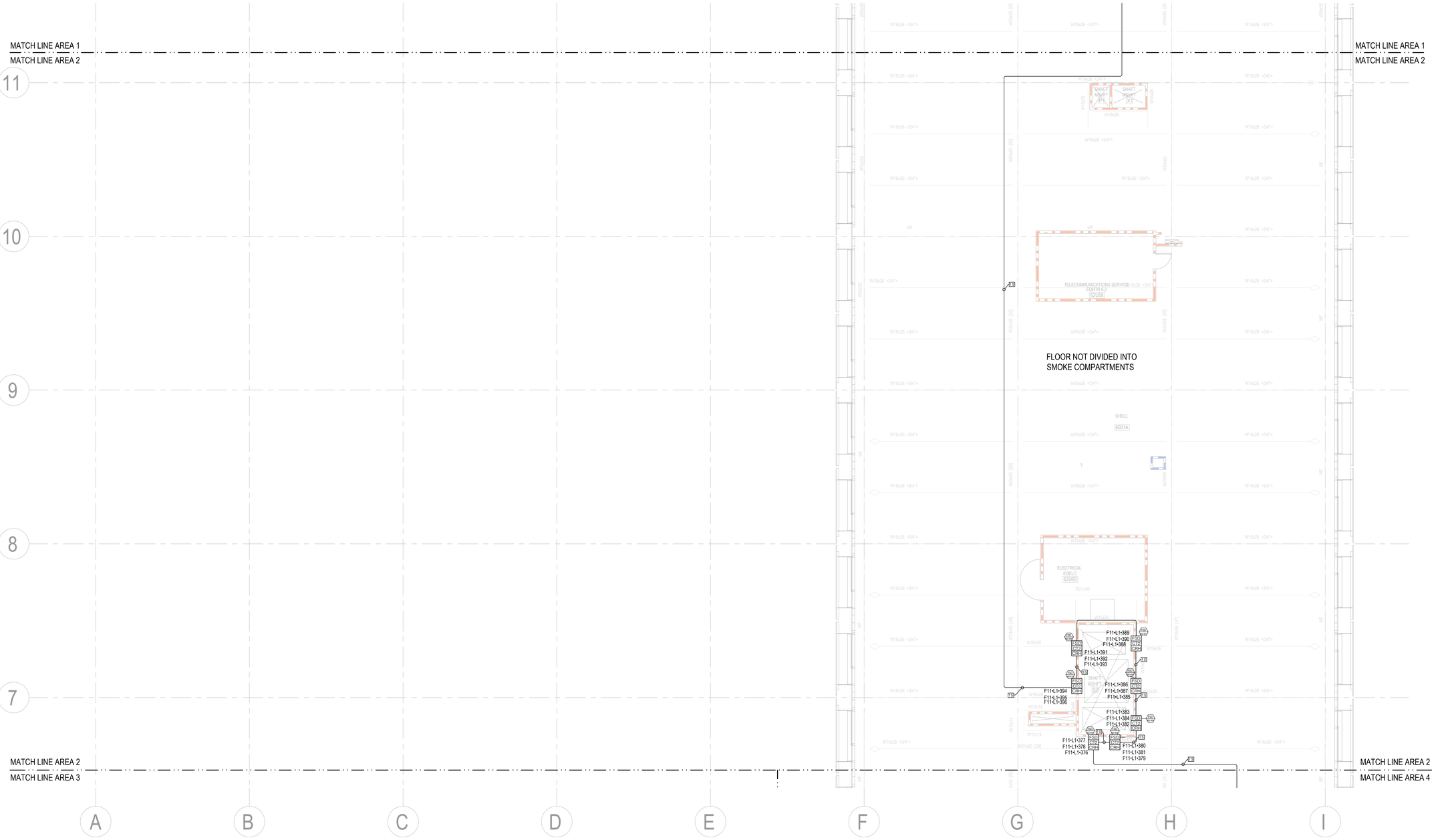


WIRE LEGEND

- SLC CIRCUIT
- NAC CIRCUIT
- POWER CIRCUIT
- SPEAKER CIRCUIT
- IDC CIRCUIT
- NETWORK CIRCUIT
- AUDIO RISER
- SLC CIRCUITS IN CLASS A

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

FSD LEGEND

- FSD / X — DAMPER UNIT
- CT2 — SUPERVISOR OPEN/ CLOSED POSITION
- CRH — SHUTDOWN DAMPER

PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 6 - AREA 2

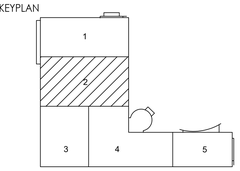
SCALE 1/8" = 1'

N

Consultant

Architect / Engineer of Record

KEYPLAN



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Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Agency Approval

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Facility

Project

Title

PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 6 - AREA 2

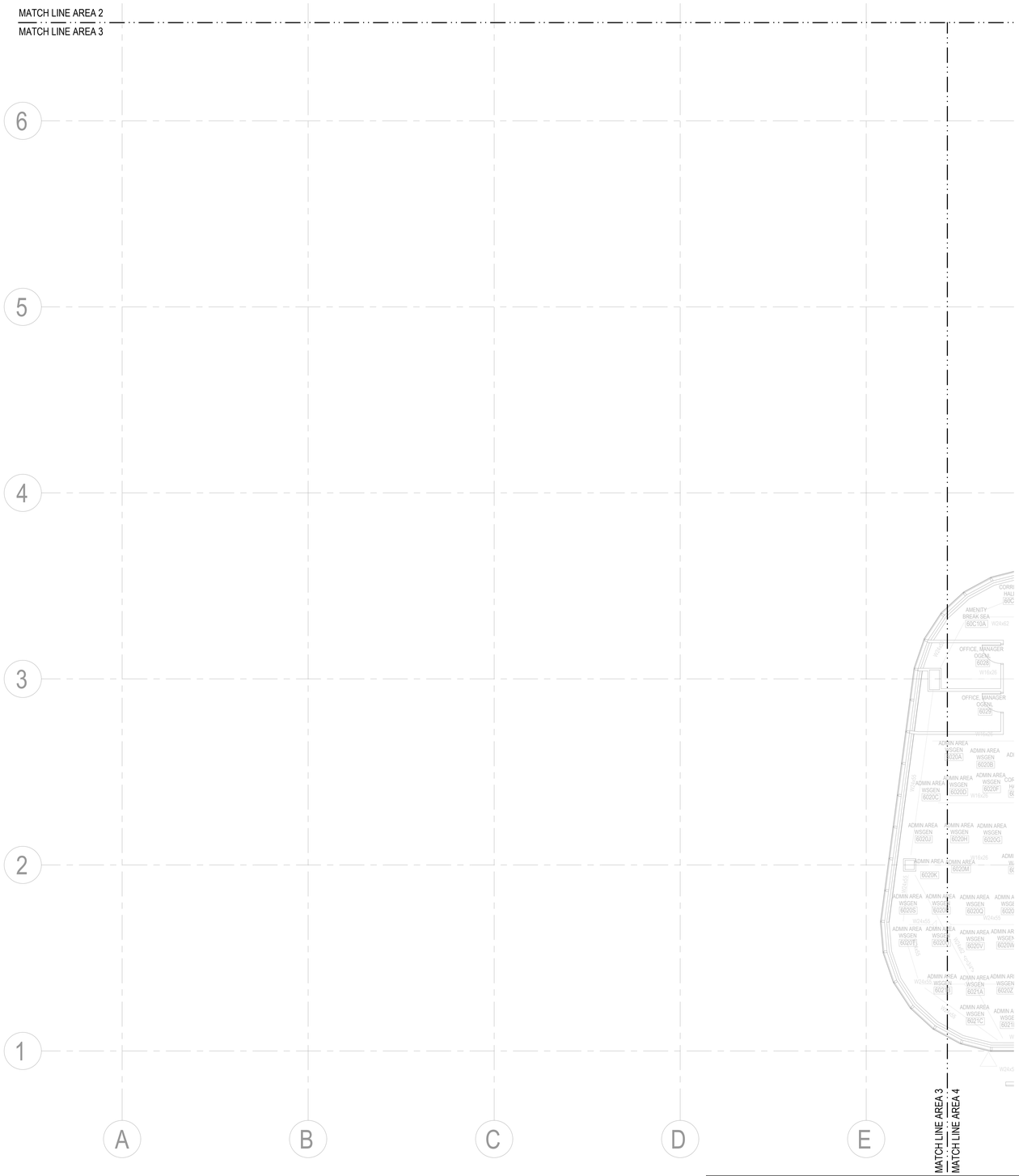
Building ID	Floor Lev.
Scale 1/8" = 1'-0"	KP Proj. No.
Dwn By LW	Stantec No.
Chckd By VL	Sheet

H-FA206.2.B

ORIGINAL SHEET - ARCH E1

MATCH LINE AREA 2

MATCH LINE AREA 3



KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

WIRE LEGEND

- SLC CIRCUIT (1S)
- NAC CIRCUIT (1V)
- POWER CIRCUIT (1P)
- SPEAKER CIRCUIT (1A)
- IDC CIRCUIT (1Z)
- NETWORK CIRCUIT (1N)
- AUDIO RISER (1A)
- SLC CIRCUITS IN CLASS A (1S)

PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 6 - AREA 3

SCALE 1/8" = 1'

N

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

FSD LEGEND

- FSD / X — DAMPER UNIT
- CT2 — SUPERVISOR OPEN/ CLOSED POSITION
- CRH — SHUTDOWN DAMPER

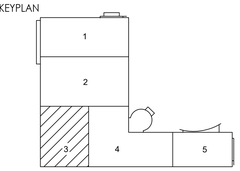
RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

Consultant

Architect / Engineer of Record

KEYPLAN



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INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04
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	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Agency Approval

DSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

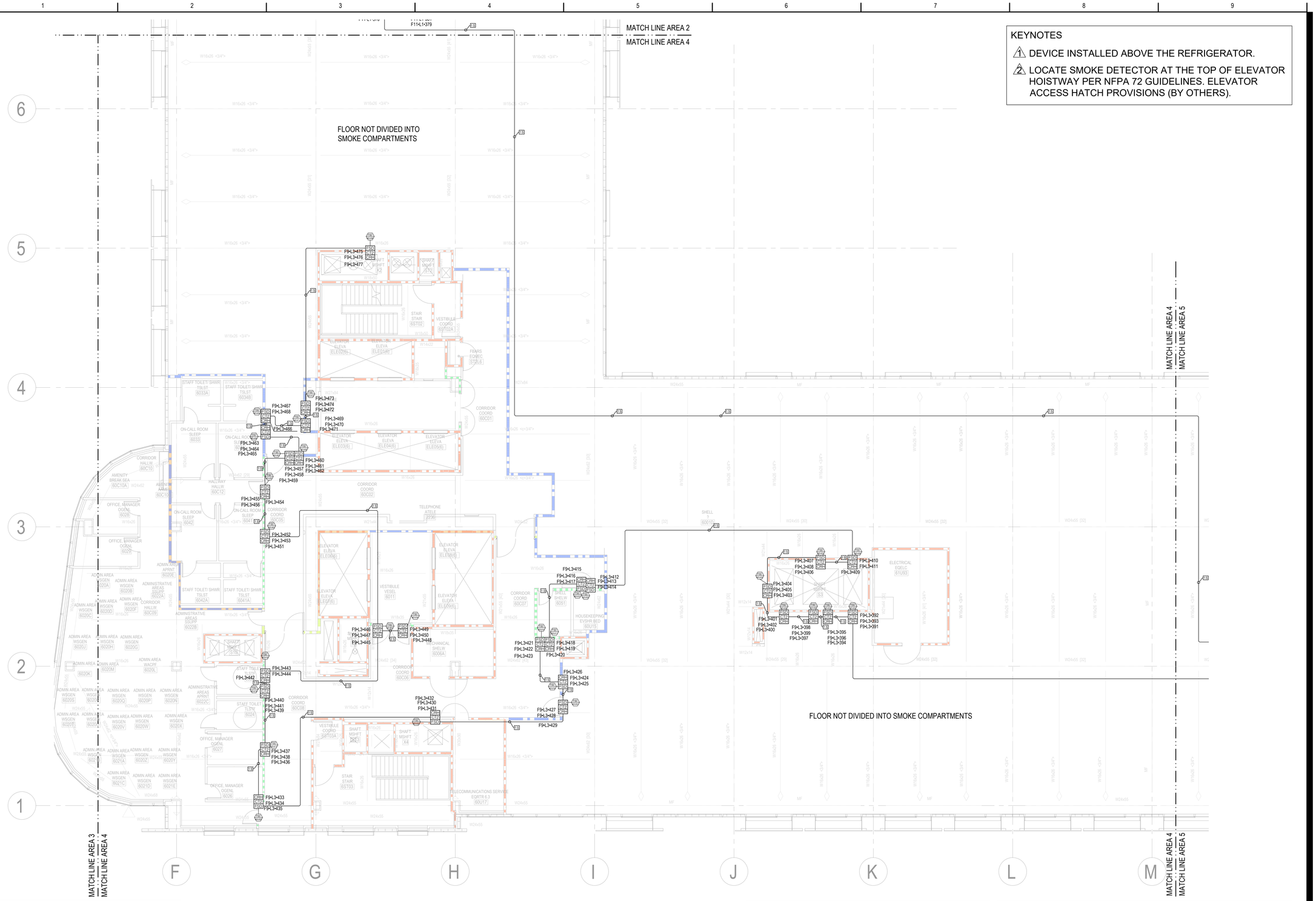
Project

Title

PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 6 - AREA 3

Building ID:		Floor Lev:	
Scale	1/8" = 1'-0"	KP Proj. No.	
Drwn By	LW	Stantec No.	
Chckd By	VL	Sheet	**H-FA206.3.B**

ORIGINAL SHEET - ARCH E1



KEYNOTES

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2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

WIRE LEGEND

- SLC CIRCUIT
- NAC CIRCUIT
- POWER CIRCUIT
- SPEAKER CIRCUIT
- IDC CIRCUIT
- NETWORK CIRCUIT
- AUDIO RISER
- SLC CIRCUITS IN CLASS A

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

FSD LEGEND

- DAMPER UNIT
- CT2 SUPERVISOR OPEN/ CLOSED POSITION
- CRH SHUTDOWN DAMPER

RATED WALLS LEGEND

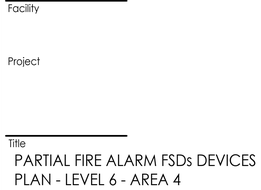
- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 6 - AREA 4

SCALE 1/8" = 1'

N

KEYPLAN



Consultant

Architect / Engineer of Record

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	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Agency Approval

OSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

Project

Title

PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 6 - AREA 4

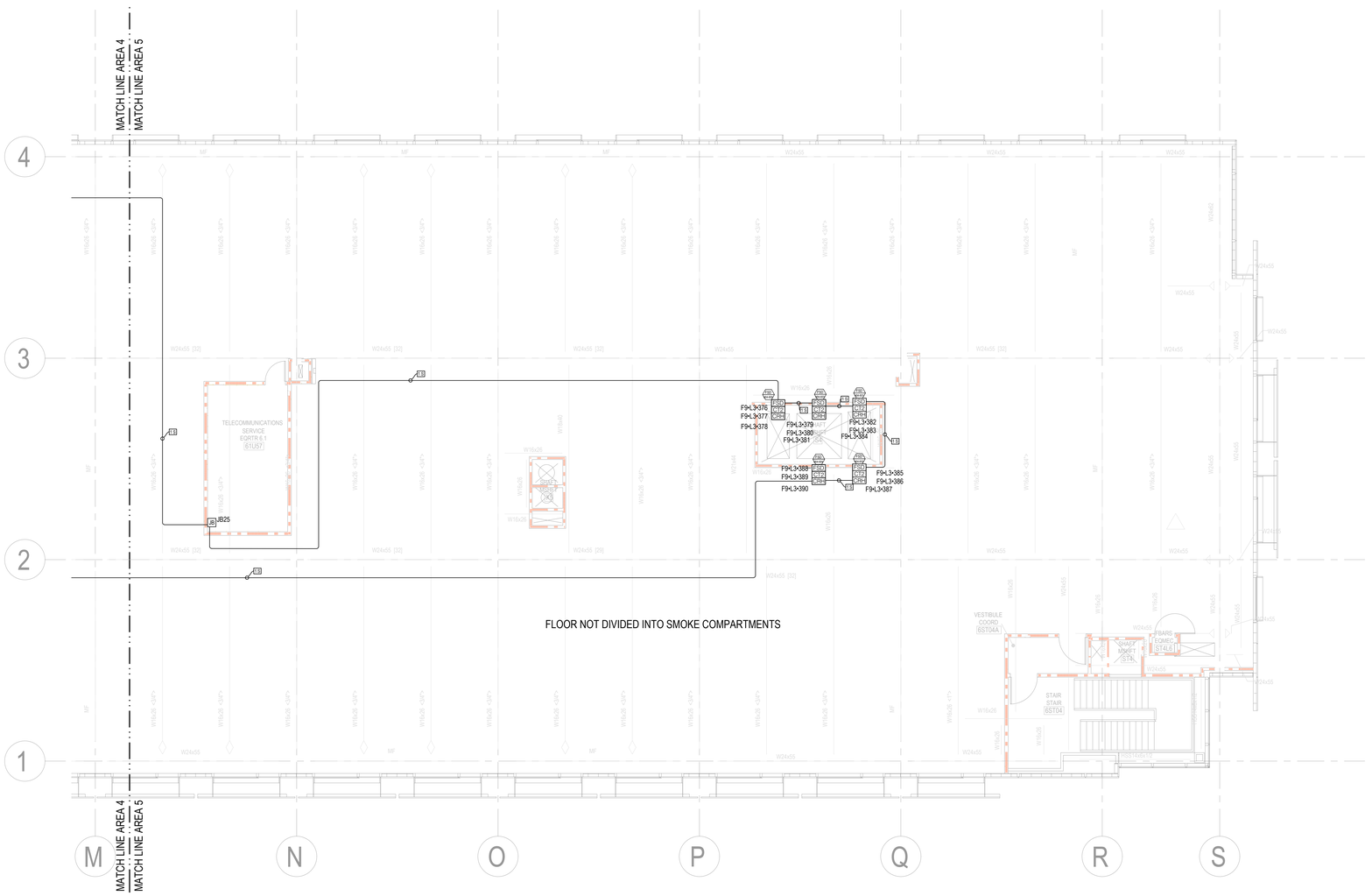
Building ID:		Floor Lev:	
Scale	1/8" = 1'-0"	KP Proj. No.	
Drwn By	LW	Stantec No.	
Chckd By	VL	Sheet	

H-FA206.4.B

ORIGINAL SHEET - ARCH E1

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).



WIRE LEGEND

- SLC CIRCUIT (1 S)
- NAC CIRCUIT (1 V)
- POWER CIRCUIT (1 P)
- SPEAKER CIRCUIT (1 A)
- IDC CIRCUIT (1 Z)
- NETWORK CIRCUIT (1 N)
- AUDIO RISER (1 A)
- SLC CIRCUITS IN CLASS A (1 S)

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

FSD LEGEND

- FSD / X — DAMPER UNIT
- CT2 — SUPERVISOR OPEN/ CLOSED POSITION
- CRH — SHUTDOWN DAMPER

PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 6 - AREA 5

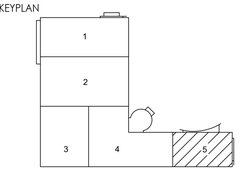
SCALE 1/8" = 1'

N

Consultant

Architect / Engineer of Record

KEYPLAN



Revision

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Issued

Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Agency Approval

QSHPD No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

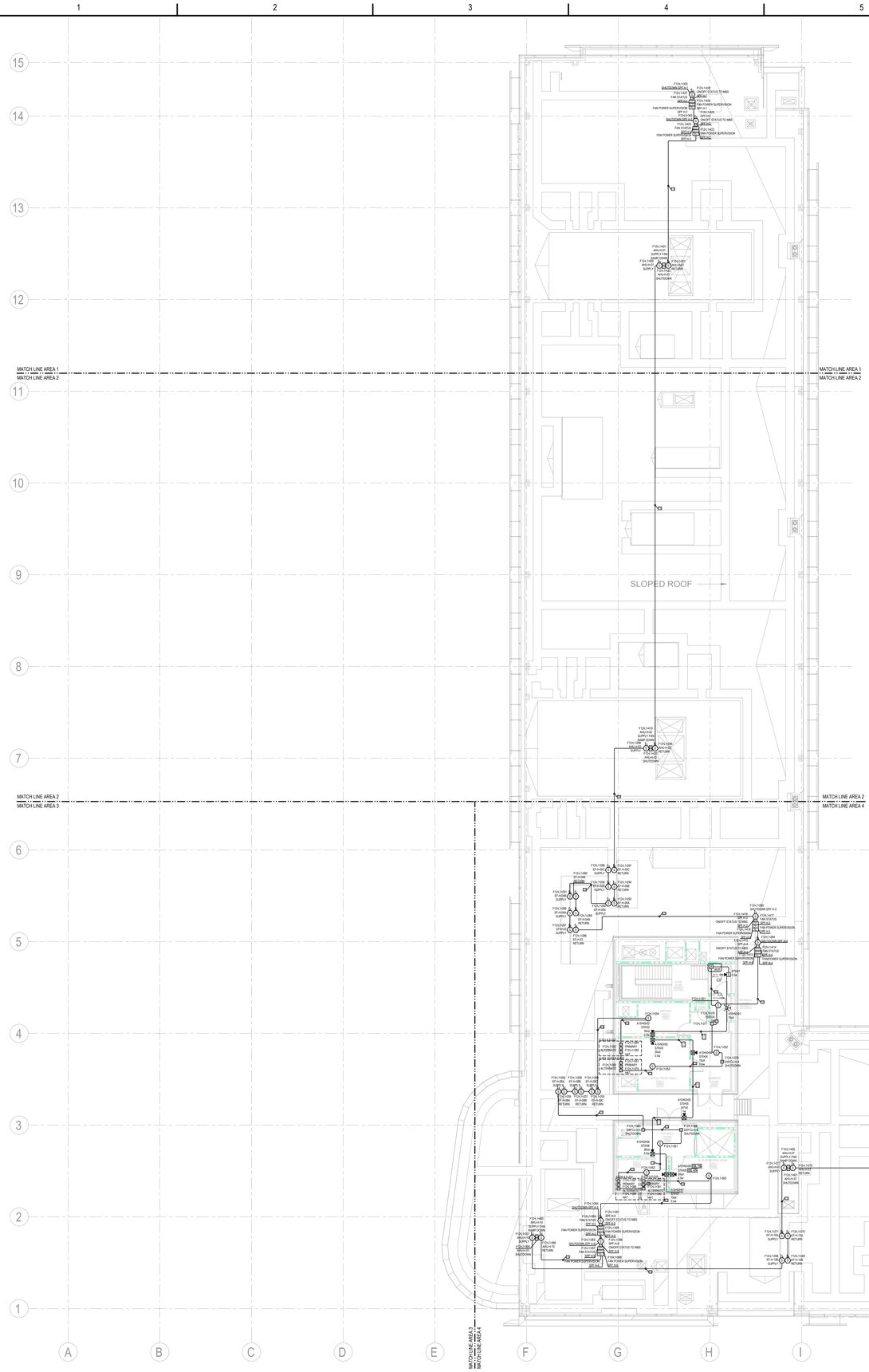
Project

Title
PARTIAL FIRE ALARM FSDs DEVICES PLAN - LEVEL 6 - AREA 5

Building ID	Floor Lev.
Scale 1/8" = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	

Sheet
H-FA206.5.B

ORIGINAL SHEET - ARCH E1



ROOF DEVICE LAYOUT

SCALE 1/16" = 1'

N

WIRE LEGEND

- 1 S — SLC CIRCUIT
- 1 V — NAC CIRCUIT
- 1 P — POWER CIRCUIT
- 1 A — SPEAKER CIRCUIT
- 1 Z — IDC CIRCUIT
- 1 N — NETWORK CIRCUIT
- 1 A — AUDIO RISER
- 1 S — SLC CIRCUITS IN CLASS A

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

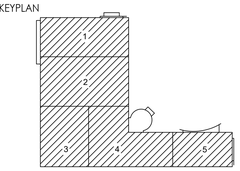
RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

Consultant

Architect / Engineer of Record

KEYPLAN



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INCREMENT 4 SEG 3B SUBMISSION #1			2025.03.04
Issued	By	Appd	YYYY.MM.DD
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Agency Approval

DSH/PD No. I230010-43-00
INCREMENT 4 - I230010-43-04

Facility

Project

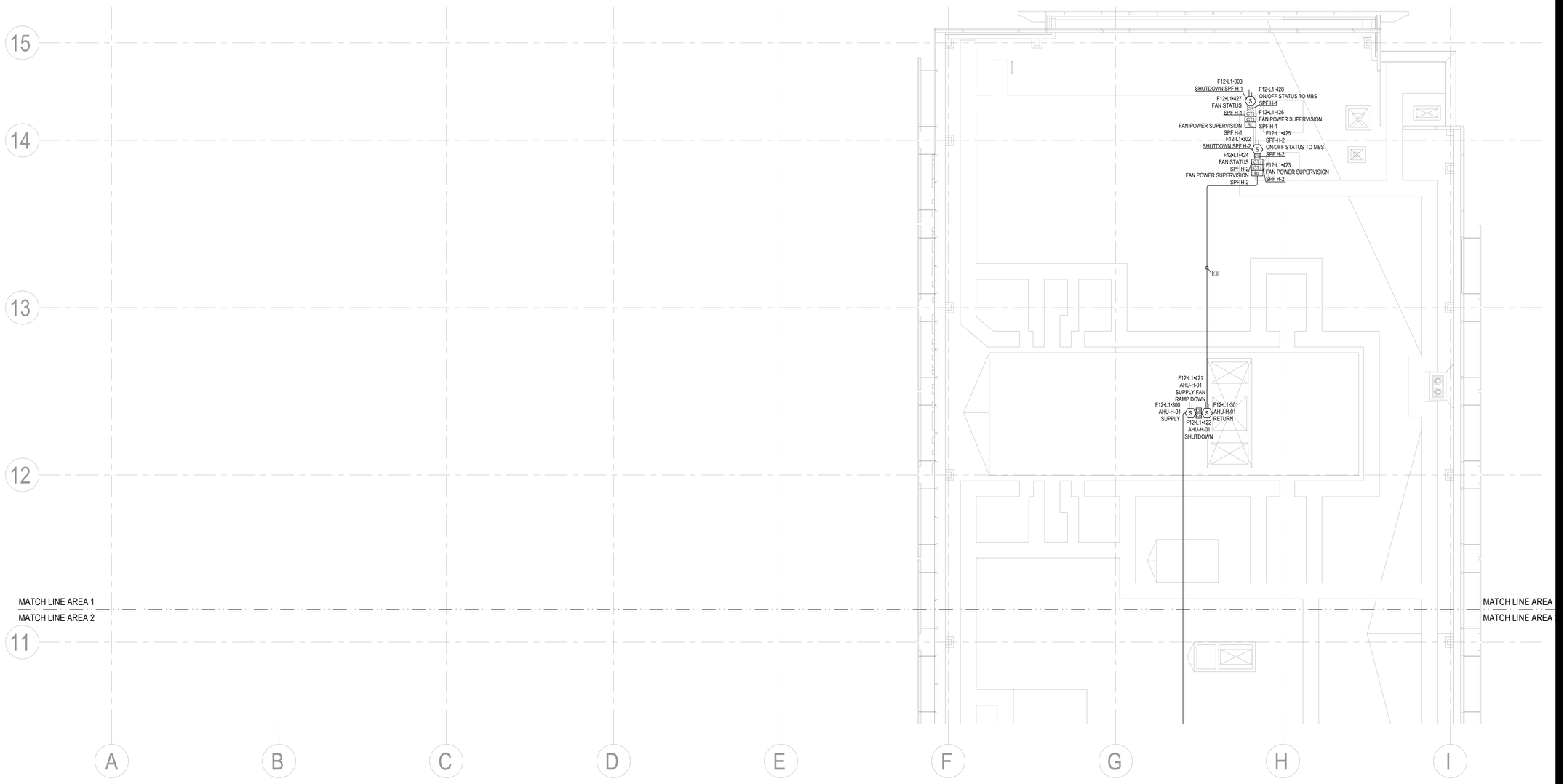
Title
ROOF DEVICE LAYOUT

Building ID:	Floor Lev:
Scale 1/16 = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet **H-FA107**

ORIGINAL SHEET - ARCH E1

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).



WIRE LEGEND

- SLC CIRCUIT
- NAC CIRCUIT
- POWER CIRCUIT
- SPEAKER CIRCUIT
- IDC CIRCUIT
- NETWORK CIRCUIT
- AUDIO RISER
- SLC CIRCUITS IN CLASS A

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

N

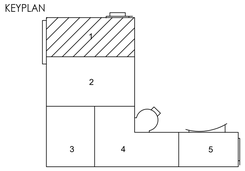
PARTIAL FIRE ALARM DEVICE PLAN ROOF - AREA 1

SCALE 1/8" = 1'

Consultant

Architect / Engineer of Record

KEYPLAN



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INCREMENT 4 - I230010-43-04

Facility

Project

Title

PARTIAL FIRE ALARM DEVICE PLAN - ROOF - AREA 1

Building ID:	Floor Lev:
Scale 1/8" = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	

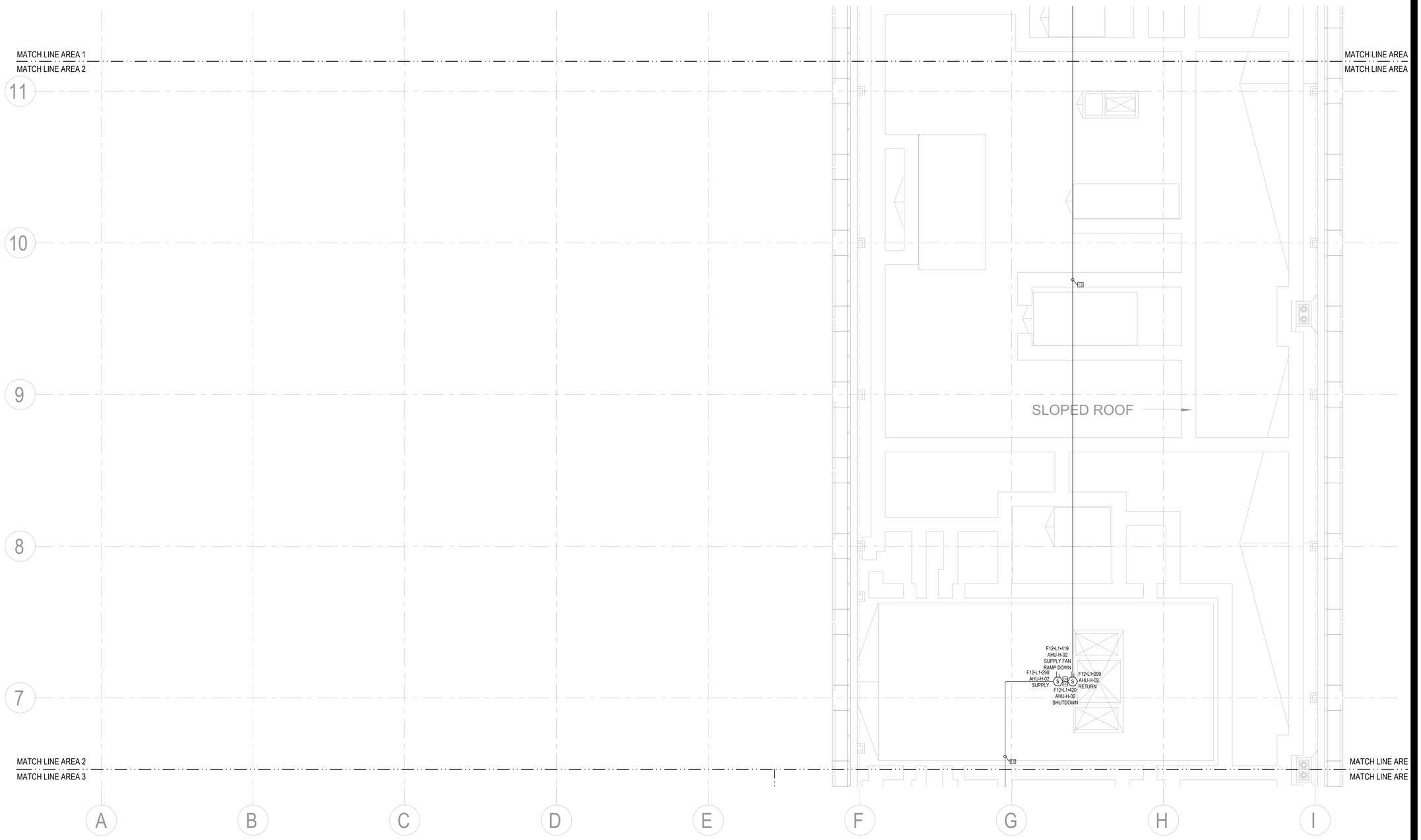
Sheet

H-FA207.1

ORIGINAL SHEET - ARCH E1

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).



WIRE LEGEND

- SLC CIRCUIT (1 S)
- NAC CIRCUIT (1 V)
- POWER CIRCUIT (1 P)
- SPEAKER CIRCUIT (1 A)
- IDC CIRCUIT (1 Z)
- NETWORK CIRCUIT (1 N)
- AUDIO RISER (1 A)
- SLC CIRCUITS IN CLASS A (1 S)

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

N

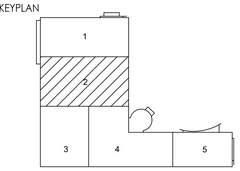
PARTIAL FIRE ALARM DEVICE PLAN ROOF - AREA 2

SCALE 1/8" = 1'

Consultant

Architect / Engineer of Record

KEYPLAN



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INCREMENT 4 - I230010-43-04

Facility

Project

Title

PARTIAL FIRE ALARM DEVICE PLAN - ROOF - AREA 2

Building ID:	Floor Lev:
Scale 1/8" = 1'-0"	KP Proj. No.
Drwn By LW	Stantec No.
Chckd By VL	Sheet

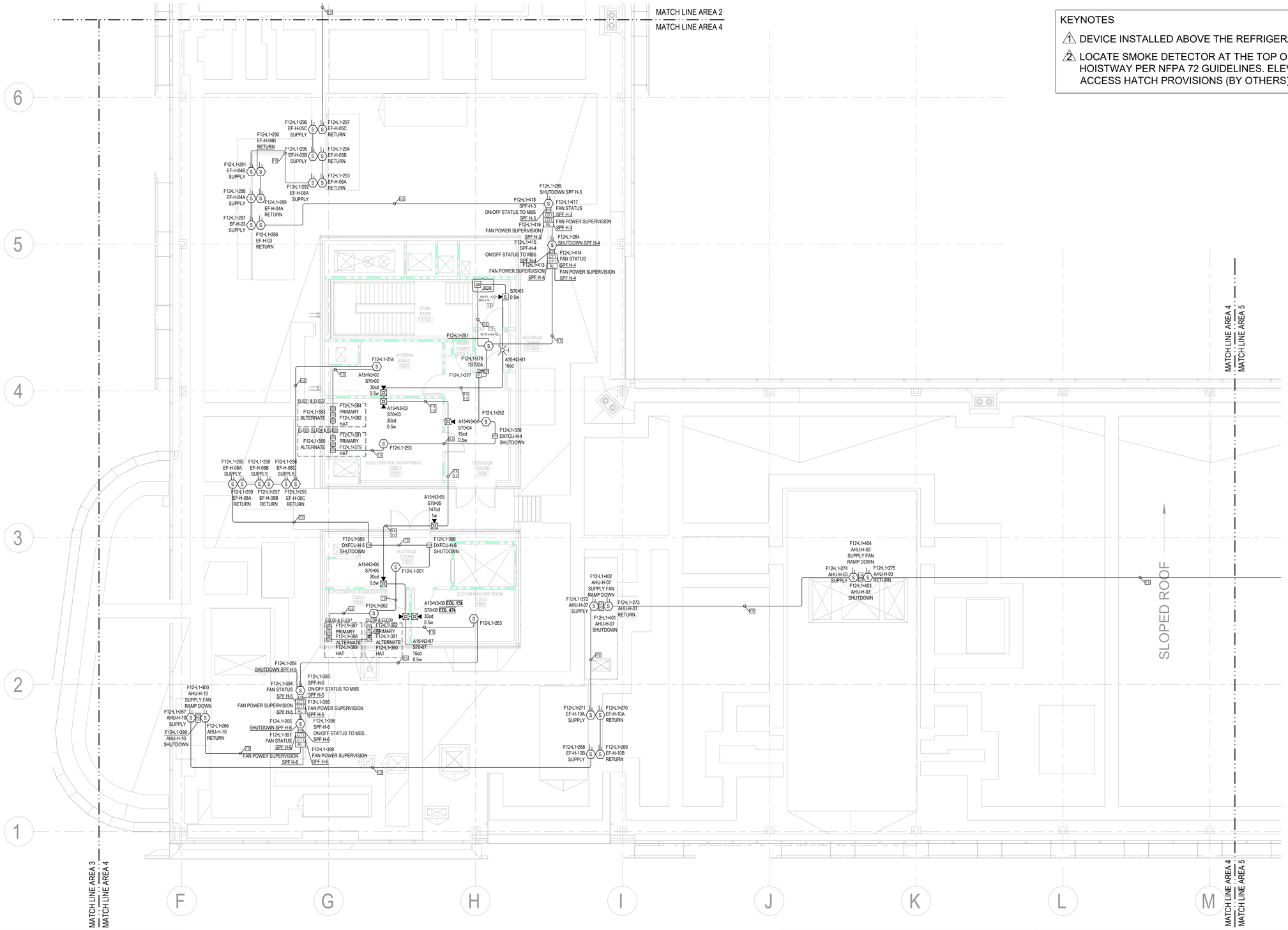
H-FA207.2

ORIGINAL SHEET - ARCH E1

MATCH LINE AREA 2
MATCH LINE AREA 4

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).



WIRE LEGEND

- SLC CIRCUIT
- NAC CIRCUIT
- POWER CIRCUIT
- SPEAKER CIRCUIT
- IDC CIRCUIT
- NETWORK CIRCUIT
- AUDIO RISER
- SLC CIRCUITS IN CLASS A

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

PARTIAL FIRE ALARM DEVICE PLAN ROOF - AREA 4

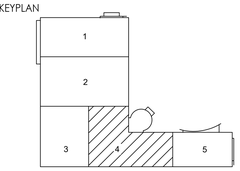
SCALE 1/8" = 1'

N

Consultant

Architect / Engineer of Record

KEYPLAN



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INCREMENT 4 - I230010-43-04

Facility

Project

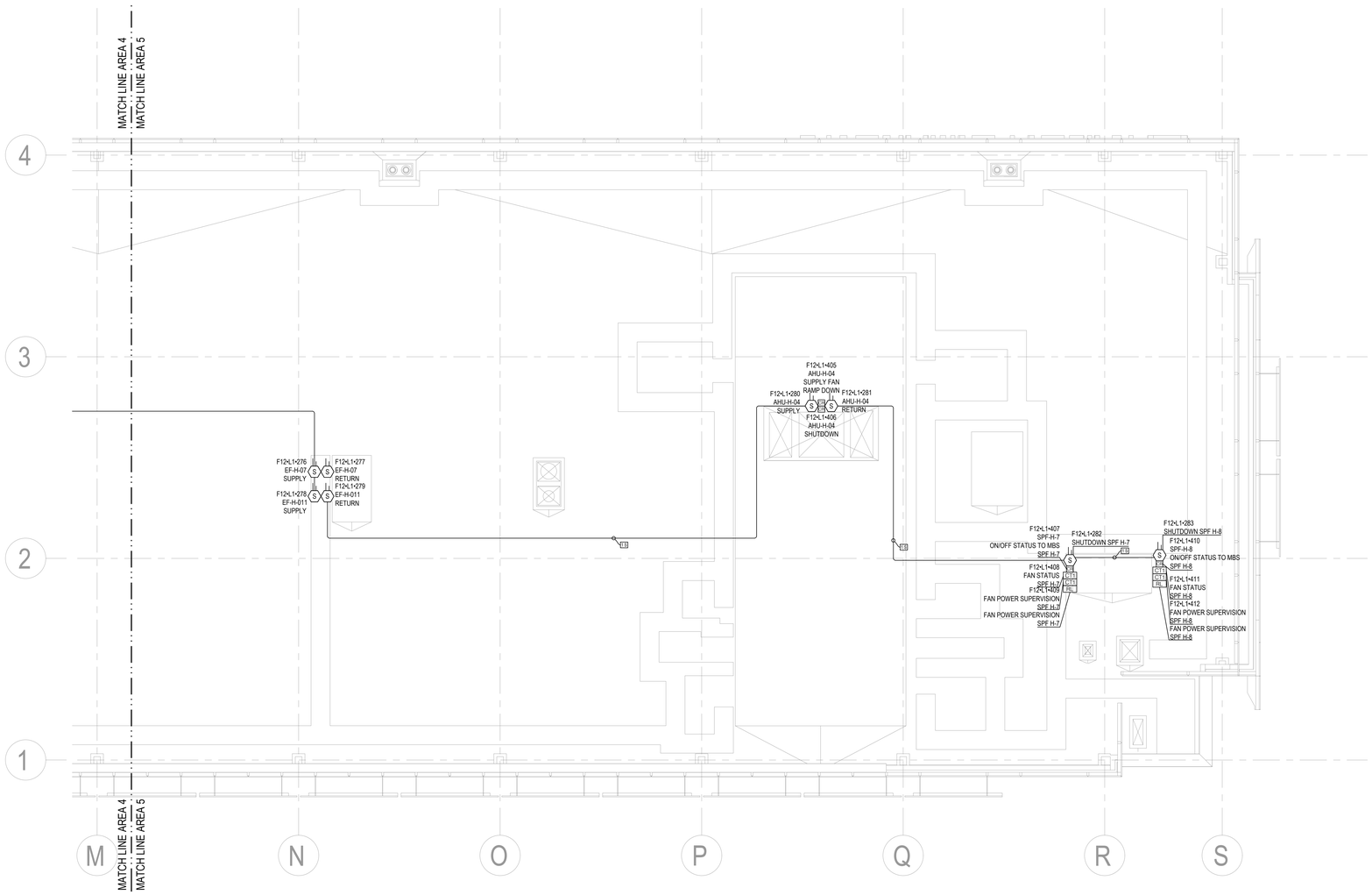
Title
PARTIAL FIRE ALARM DEVICE PLAN - ROOF - AREA 4

Building ID:		Floor Lev:	
Scale	1/8" = 1'-0"	KP Proj. No.	
Drwn By	LW	Stantec No.	
Chckd By	VL	Sheet	H-FA207.4

ORIGINAL SHEET - ARCH E1

KEYNOTES

1. DEVICE INSTALLED ABOVE THE REFRIGERATOR.
2. LOCATE SMOKE DETECTOR AT THE TOP OF ELEVATOR HOISTWAY PER NFPA 72 GUIDELINES. ELEVATOR ACCESS HATCH PROVISIONS (BY OTHERS).



WIRE LEGEND

- SLC CIRCUIT
- NAC CIRCUIT
- POWER CIRCUIT
- SPEAKER CIRCUIT
- IDC CIRCUIT
- NETWORK CIRCUIT
- AUDIO RISER
- SLC CIRCUITS IN CLASS A

LINE LEGEND

- SMOKE COMPARTMENT BOUNDARY
- MATCHLINE BOUNDARY
- GRIDLINE BOUNDARY

RATED WALLS LEGEND

- 1 HR FIRE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER + SMOKE BARRIER
- 2 HR FIRE BARRIER + SMOKE BARRIER

N

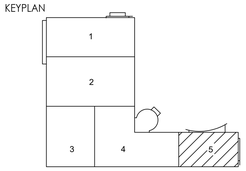
PARTIAL FIRE ALARM DEVICE PLAN ROOF - AREA 5

SCALE 1/8" = 1'

Consultant

Architect / Engineer of Record

KEYPLAN



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Facility

Project

Title

PARTIAL FIRE ALARM DEVICE PLAN - ROOF - AREA 5

Building ID:	Floor Lev:
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Drwn By LW	Stantec No.
Chckd By VL	Sheet H-FA207.5

ORIGINAL SHEET - ARCH E1