California Pacific Medical Center

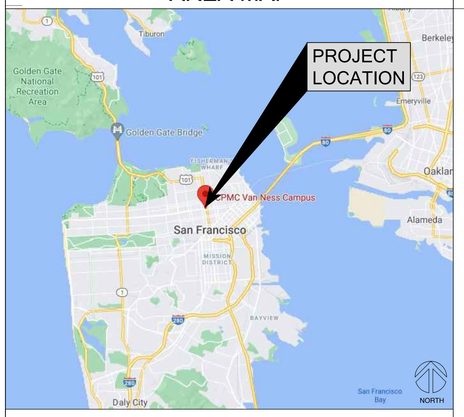
SUTTER HEALTH AFFILIATE

CPMC VAN NESS CAMPUS

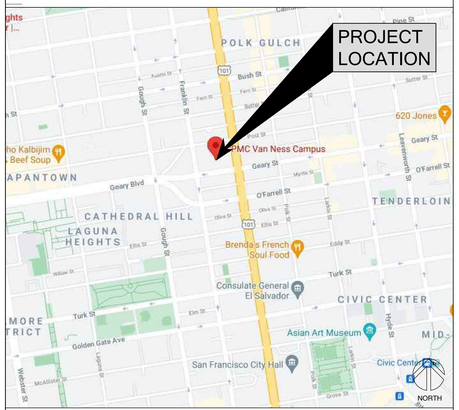
1101 VAN NESS AVE, SAN FRANCISCO, CA 94109

4TH FLOOR ACU AUTOMATIC DOOR OPERATORS

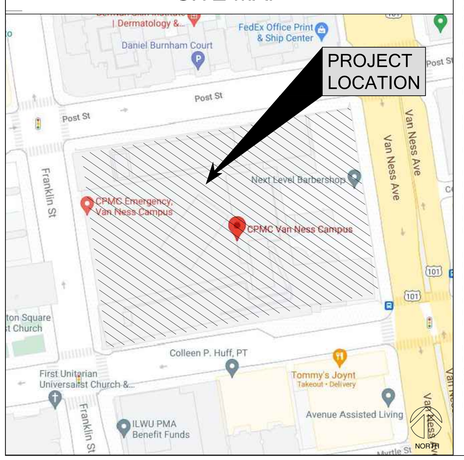
AREA MAP



VICINITY MAP



SITE MAP



ABBREVIATIONS

NOT ALL ABBREVIATIONS ARE USED

ABV	ABOVE
ACT	ACOUSTICAL CEILING TILE
ADJ	ADJUSTABLE
ADDL	ADDITIONAL
AFF	ABOVE FINISHED FLOOR
ALUM	ALUMINUM
ALT	ALTERNATE
@	AT
ARCH	ARCHITECTURAL
APPROX	APPROXIMATE
BKNG	BACKING
BD	BOARD
BET	BETWEEN
BLDG	BUILDING
BM	BEAM
BOTT	BOTTOM
BSMT	BASEMENT
CO	CLEAN OUT
CONC	CONCRETE
CAB	CABINET
CG	CORNER GUARD
CLO	CLOSET
℄	CENTERLINE
CLG	CEILING
CLR	CLEAR
CONT	CONTINUOUS/CONTINUATION
CPU	COMPUTER PROCESSING UNIT
DEG	DEGREE
DEMO	DEMOLITION
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DIA / Ø	DIAMETER
DIM	DIMENSION
DISP	DISPENSER
DN	DOWN
DWG	DRAWING
DTL	DETAIL
(E)	EXISTING
EA	EACH
EQPT	EQUIPMENT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMBD	EMBEDMENT
EMT	ELECTRICAL METALLIC TUBING
EQ	EQUAL
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXT	EXTERIOR
EXP	EXPANSION
FHWS	FLATHEAD WOOD SCREW
FOS	FACE OF STUD
FOF	FACE OF FINISH
FURR	FURRING
FD	FLOOR DRAIN
FEC	FIRE EXTINGUISHER CABINET
FHC	FIRE HOSE CABINET
FIN	FINISH
FLR	FLOOR
FOC	FACE OF CONCRETE
FS	FLOOR SINK
FSD	FIRE AND SMOKE DAMPER
FTG	FOOTING
FT	FEET
GA	GAUGE
GALV	GALVANIZED
GL	GLASS
GWB	GYPSUM WALL BOARD
HR	HOUR
HDW	HARDWARE
HT	HEIGHT
HM	HOLLOW METAL
HSS	HOLLOW STRUCTURAL SECTION
IN	INCH(ES)
INSUL	INSULATION
KIT	KITCHEN
LAB	LABORATORY
LAM	LAMINATE, LAMINATION
LAV	LAVATORY
LOC	LOCATION
LT	LIGHT
LWC	LIGHTWEIGHT CONCRETE
MA	MEDICAL AIR
MECH	MECHANICAL
MTL	METAL
MIN	MINIMUM
MISC	MISCELLANEOUS
MAX	MAXIMUM
MTD	MOUNTED
N2	NITROGEN
NIC	NOT IN CONTRACT
(N)	NEW
NO	NUMBER
NTS	NOT TO SCALE
NWC	NORMAL WEIGHT CONCRETE
OC	ON CENTER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFVI	OWNER FURNISHED VENDOR INSTALLED
OVHD	OVERHEAD
O2	OXYGEN
PL/ ℙ	PLATE
PLYWD	PLYWOOD
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
PTD	PAPER TOWEL DISPENSER
(R)	RELOCATE
R	RADIUS / RISER
RM	ROOM
REFR	REFRIGERATOR
REINF	REINFORCED
REQD	REQUIRED
RO	ROUGH OPENING
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SMS	SHEET METAL SCREW
SPEC	SPECIFICATION
SQ	SQUARE
SF	SQUARE FEET
SST	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STO	STORAGE
STRUCT	STRUCTURAL
STS	SELF-TAPPING SCREW
SUSP	SUSPENDED, SUSPENSION
SYS	SYSTEM
T	TREAD
TEL	TELEPHONE
THK	THICK
TS	TUBE STEEL
TYP	TYPICAL
T & B	TOP AND BOTTOM
UON	UNLESS OTHERWISE NOTED
UTIL	UTILITY
VAC	VACUUM
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WAGD	WASTE ANESTHETIC GAS DISPOSAL
WD	WOOD
WO	WHEREVER OCCURS
WP	WALL PROTECTION
WR	WATER RESISTANT
WT	WEIGHT

GENERAL NOTES

1. ALL WORK SHALL CONFORM TO THE CODES LISTED IN THESE CONTRACT DOCUMENTS AND ALL OTHER APPLICABLE CODES. GOVERNING AUTHORITIES AND CODES TAKE PRECEDENCE OVER DRAWINGS AND SPECIFICATIONS. REPORT DISCREPANCIES TO THE ARCHITECT PRIOR TO PERFORMANCE OF WORK.
2. VERIFY DIMENSIONS, EXISTING TO REMAIN UTILITIES AND CRITICAL ELEMENTS, SUCH AS STRUCTURE AND STRUCTURAL SUPPORTS, BEFORE COMMENCING WORK AFFECTED BY THEM. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO PERFORMANCE OF WORK.
3. DIMENSIONS:
   IN GENERAL, DIMENSIONS ARE TO THE FINISHED FACE OF A PARTITION, FURRING, OR TO THE FINISHED FACE OF A MANUFACTURE PRODUCT. DIMENSIONS TO CENTERLINES WILL BE INDICATED AS SUCH BY NOTE. DIMENSIONS TAKE PRECEDENCE OVER ANY GRAPHICAL REPRESENTATION SHOWN ON THE DRAWINGS. DRAWINGS ARE NOT TO BE SCALED, AND QUANTITIES CANNOT BE INFERRED BY SCALING THE DRAWINGS. IF QUANTITIES ARE NOT SHOWN BY NUMERICAL REPRESENTATION OR DIMENSIONING ON THE CONTRACT DOCUMENTS,CLARIFICATION MUST BE OBTAINED FROM THE ARCHITECT.
4. CONTRACTOR SHALL THOROUGHLY REVIEW CONTRACT DOCUMENTS AND EXISTING SITE CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES, ERRORS OR OMISSIONS BETWEEN CONTRACT DOCUMENTS AND THE EXISTING CONDITION PRIOR TO THE PERFORMANCE OF WORK OR CONSTRUCTION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING ALL WORK REQUIRED FOR A COMPLETELY FINISHED PROJECT.
6. INSTALL ALL MATERIALS AND PRODUCTS IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE ICC-ES REPORTS.
7. THE CONSTRUCTION DOCUMENTS SHOW PRINCIPAL AREAS WHERE WORK MUST BE ACCOMPLISHED UNDER THIS CONTRACT. INCIDENTAL WORK MAY ALSO BE NECESSARY IN AREAS NOT SHOWN ON THE DRAWINGS DUE TO CHANGES AFFECTING EXISTING MECHANICAL, ELECTRICAL, PLUMBING OR OTHER SYSTEMS. SUCH INCIDENTAL WORK IS ALSO PART OF THIS PROJECT.
8. PREPARE, SUBMIT AND RECEIVE APPROVAL OF SLEEVE AND OPENING DRAWINGS BEFORE LOCATING SLEEVES AND OPENINGS IN FIRE-RATED CONSTRUCTION AND BEFORE CUTTING FIRE-RATED CONSTRUCTION.
9. WHERE "MATCH EXISTING" IS INDICATED, NEW CONSTRUCTION AND/OR NEW FINISHES SHALL MATCH EXISTING CONSTRUCTION AND FINISHES TO THE SATISFACTION OF THE ARCHITECT.
10. THE CONTRACTOR SHALL COORDINATE THE TEMPORARY RELOCATION OF ALL EQUIPMENT WITH THE CLIENT PRIOR TO THE START OF DEMOLITION OR NEW CONSTRUCTION, INCLUDING THE LENGTH OF TIME THE EQUIPMENT WILL BE UNAVAILABLE. CONTRACTOR MUST INFORM THE CLIENT AND ARCHITECT PRIOR TO CONSTRUCTION IF ANY EQUIPMENT MAY BE IMPACTED BY ADJACENT CONSTRUCTION.
11. ALL SLOPES SHALL BE MEASURED USING A 2' SMART LEVEL TO ENSURE CODE COMPLIANCE.
12. "WHERE PROVIDED, THROUGH PENETRATION FIRESTOP SYSTEM AND MEMBRANE PENETRATIONS DETAILS ARE REFERENCE ONLY. THROUGH PENETRATIONS AND MEMBRANE PENETRATIONS SHALL BE PROTECTED BY AN APPROVED PENETRATION FIRESTOP SYSTEM OR MEMBRANE PENETRATION FIRESTOP SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E814 OR UL 1479, WITH A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH (2.49 PA) OF WATER OR OTHERWISE PERMITTED BY CBC SECTION 714. LISTED THROUGH PENETRATION FIRESTOP SYSTEMS AND MEMBRANE PENETRATIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE INSTALLATION DETAILS FOR THE LISTED SYSTEMS. LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS, MEMBRANE PENETRATION PROTECTION AND OTHER PERMITTED MEANS AND METHODS OF PENETRATION PROTECTION SHALL BE SUBMITTED FOR HCAI FDD REVIEW AND APPROVAL PRIOR TO INSTALLATION. 2019 CALIFORNIA BUILDING CODE (CBC) SECTION107.2.1"
13. PRIOR TO CONSTRUCTION STARTING HCAI FIELD FIRE MARSHAL AND LOCAL FIRE AUTHORITY SHALL REVIEW AND APPROVE THE MEANS OF EGRESS AND HOW IT WILL BE MAINTAINED DURING CONSTRUCTION OF THE MEANS OF EGRESS, INCLUDING TO THE PUBLIC WAY. PER 2019 C.F.C. SECTION 3311.2 AND CAN 9-3301

APPLICABLE CODE INFORMATION

THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COMPLETING THE CONSTRUCTION OF THIS PROJECT IN ACCORDANCE WITH THE FOLLOWING FEDERAL, STATE, AND LOCAL CODES INCLUDING THEIR MOST RECENT AMENDMENTS AND REVISIONS:

CALIFORNIA CODE OF REGULATIONS TITLE 8
CALIFORNIA CODE OF REGULATIONS TITLE 19
CALIFORNIA CODE OF REGULATIONS TITLE 22
CALIFORNIA CODE OF REGULATIONS TITLE 23
CALIFORNIA CODE OF REGULATIONS TITLE 24

2019 CALIFORNIA ADMINISTRATIVE CODE (CAC)
PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
2019 CALIFORNIA BUILDING CODE (CBC)
PART 2, TITLE 24, CCR (BASED ON THE 2018 INTERNATIONAL BUILDING CODE (IBC))
2019 CALIFORNIA ELECTRICAL CODE (CEC)
PART 3, TITLE 24, CCR (BASED ON THE 2017 NATIONAL ELECTRICAL CODE (NEC))
2019 CALIFORNIA EXISTING BUILDING CODE (CEBC)
PART 10, TITLE 24, CCR (BASED ON 2018 INTERNATIONAL BUILDING CODE)
2019 CALIFORNIA MECHANICAL CODE (CMC)
PART 4, TITLE 24, CCR (BASED ON THE 2018 UNIFORM MECHANICAL CODE (UMC))
2019 CALIFORNIA PLUMBING CODE (CPC)
PART 5, TITLE 24, CCR (BASED ON THE 2018 UNIFORM PLUMBING CODE (UPC))
2019 CALIFORNIA FIRE CODE (CFC)
PART 9, TITLE 24, CCR (BASED ON THE 2015 INTERNATIONAL FIRE CODE (IFC))
2019 CALIFORNIA GREEN BUILDING STANDARD CODE
2010 ADA STANDARDS FOR ACCESSIBILITY DESIGN

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARDS

UNLESS OTHERWISE STATED, IT IS INTENDED THAT THE ABOVE CODES AND REGULATIONS REFER TO THE LATEST EDITION OR REVISION IN EFFECT ON THE DATE OF THE CONTRACT. NOTHING ON THE DRAWINGS IS TO BE CONSTRUED AS REQUIRING OR PERMITTING WORK THAT IS CONTRARY TO THE ABOVE LISTED CODES AND REGULATIONS, OR OTHER LOCAL, STATE OR FEDERAL CODES OR REGULATIONS WHICH MAY BE APPLICABLE.

PROJECT TEAM

PROJECT TEAM CONTACT:

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PROJECT DESCRIPTION

INSTALLATION OF AUTOMATIC DOOR OPERATORS TO DOORS C441-B AND C491-A, AS WELL AS ASSOCIATED ELECTRICAL AND FIRE ALARM MODIFICATION WORK.

INTENT OF DRAWINGS

THE INTENT OF THE CONSTRUCTION DOCUMENTS IS TO RECONSTRUCT WITH IN THE HOSPITAL BUILDING IN ACCORDANCE WITH THE 2019 CBSC. SHOULD ANY CONDITION DEVELOP NOT COVERED BY THE APPROVED CONSTRUCTION DOCUMENTS, WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH THE 2019 CBSC, AMENDED CONSTRUCTION DOCUMENTS (ACDS) DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY HCAI BEFORE PROCEEDING WITH THE WORK.

(REFERENCE: 2019 CAC SECTION 7-109 AND 2019 CBC SECTIONS 107 AND 116)

BUILDING INFORMATION

HCAI FACILITY NO.:	18165 CALIFORNIA PACIFIC MEDICAL CENTER - VAN NESS CAMPUS
HCAI BUILDING NO.:	BLD-03801 - NEW ACUTE CARE HOSPITAL - BLDG 01
CONSTRUCTION YEAR:	2020 (UNDER CBC 2007)
OCCUPANCY:	GROUP A-2; NO CHANGE
CONSTRUCTION TYPE:	TYPE IA
NUMBER OF STORIES:	13 LEVELS ABOVE GRADE AND 2 LEVELS (PARKING) BELOW GRADE
FIRE PROTECTION:	FULLY SPRINKLERED (NO WORK)
FIRE ALARM:	FULL COVERAGE (NO WORK)
SPC CLASSIFICATION:	SPC = 5S
NPC CLASSIFICATION:	NPC = 4S

SYMBOLS

COLUMN GRIDS REFERENCE	NORTH ARROW INDICATOR
KEY NOTE DESIGNATION RE: KEY NOTE LEGEND	CEILING HEIGHT AT DESIGNATED LOCATIONS / AREAS
EQUIPMENT OR FURNITURE TYPE SYMBOL	ROOM NAME DESIGNATION; ROOM NUMBER DESIGNATION; CEILING HEIGHT AT DESIGNATED LOCATIONS / AREAS
DOOR TYPE SYMBOL SEE DOOR SCHEDULE	
ALIGN FACE OF FINISH WITH ADJACENT FACE OF FINISH	REVISION NUMBER SYMBOL; REVISION CLOUD SYMBOL
LARGE SCALE PLAN OR ENLARGED SECTIONAL DETAIL: DETAIL NUMBER TO BE REFERENCED; SHEET NUMBER TO BE REFERENCED	MATCH LINE, DARK SIDE IS THE AREA CONSIDERED
DETAIL DRAWING REFERENCE SYMBOL: DETAIL NUMBER TO BE REFERENCED; SHEET NUMBER TO BE REFERENCED	INTERIOR ELEVATION SYMBOL: SHEET NUMBER TO BE REF.; ELEV NUMBER
PARTITION TYPE DESIGNATION; ACOUSTICAL INSULATION	DOOR MARK SEE SCHEDULE: DOOR TYPE SYMBOL
NAME: ROOM NAME DESIGNATION; CLASS: OCCUPANCY CLASSIFICATION; FUNCTION: FUNCTION OF SPACE PER CBC 2019 TABLE 1004.5; ###: LOAD FACTOR PER CBC 2019 TABLE 1004.5; ###: AREA; ###: OCCUPANT LOAD	

SHEET INDEX

ARCHITECTURAL

A0.0	COVER SHEET, GENERAL NOTES, ABBREV. & PROJECT INFORMATION
A2.1	LEVEL 4 FIRE AND LIFE SAFETY PLAN
A4.0	ENLARGED PLANS & INTERIOR ELEVATIONS

ELECTRICAL

E0.0	ELECTRICAL SYMBOLS, SPECIFICATIONS, DETAIL
E2.0	COORDINATION STUDY
E1.0	AREA G & B ELECTRICAL POWER PLAN, PARTIAL ONE LINE, PANEL SCHEDULE

FIRE ALARM

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FA.0.01A	FIRE ALARM PLAN SEQUENCE OF OPERATION MATRIX A
FA.0.01B	FIRE ALARM PLAN SEQUENCE OF OPERATION MATRIX B
FA.0.01C	FIRE ALARM PLAN SEQUENCE OF OPERATION MATRIX C
FA.0.01D	FIRE ALARM PLAN SEQUENCE OF OPERATION MATRIX D
FA.0.01E	FIRE ALARM PLAN SEQUENCE OF OPERATION MATRIX E
FA.0.01F	FIRE ALARM PLAN SEQUENCE OF OPERATION MATRIX F
FA.0.02	FIRE ALARM PLAN LEGENDS
FA.0.03	FIRE ALARM PLAN DOOR SCHEDULE
FA.04.0	FIRE ALARM PLAN LEVEL 4 OVERALL
FA.04.1	FIRE ALARM PLAN LEVEL 4 ZONE 1
FA.2.08B	INITIATING DEVICE RISER DIAGRAM LEVEL 4
FA.4.13	DEVICE DETAILS
FA.6.01	PRODUCT DATA SUBMITTALS & CSFM LISTING SHEETS

FIRE SAFETY DURING CONSTRUCTION, ALTERATIONS AND DEMOLITION

1. SMOKING IS PROHIBITED. "NO SMOKING" SIGNS SHALL BE POSTED. CFC-2019: SEC.3304.1
2. COMBUSTIBLE DEBRIS SHALL NOT ACCUMULATE WITHIN BUILDINGS. CFC-2019: SEC. 3304.2
3. CUTTING AND WELDING OPERATIONS SHALL BE IN ACCORDANCE WITH CFC-2019: CHAPTER 26 & SEC. 3304.6
4. WHEN REQUIRED BY THE FIRE CODE OFFICIAL FOR BUILDING DEMOLITION THAT IS HAZARDOUS IN NATURE, QUALIFIED PERSONNEL SHALL BE PROVIDED TO SERVE AS AN ON-SITE FIRE WATCH. CFC-2019: SEC. 3304.5
5. THE STORAGE, USE AND HANDLING OF FLAMMABLE LIQUIDS SHALL BE IN ACCORDANCE WITH CFC-2019, CHAPTER 57. STORAGE, USE AND HANDLING OF OTHER HAZARDOUS MATERIALS SHALL BE IN ACCORDANCE WITH CFC-2019: SEC. 3305
6. THE OWNER SHALL DESIGNATE A PERSON TO BE THE FIRE PREVENTION PROGRAM SUPERINTENDENT WHO SHALL BE RESPONSIBLE FOR THE FIRE PREVENTION PROGRAM AND ENSURE THAT IT IS CARRIED OUT THROUGH COMPLETION OF THE PROJECT. CFC-2019: SEC. 3308.1
7. WHERE A REQUIRED FIRE PROTECTION SYSTEM IS OUT OF SERVICE, THE FIRE DEPARTMENT AND THE FIRE CODE OFFICIAL SHALL BE NOTIFIED IMMEDIATELY AND, WHERE REQUIRED BY THE FIRE CODE OFFICIAL, THE BUILDING SHALL EITHER BE EVACUATED OR AN APPROVED FIRE WATCH SHALL BE PROVIDED FOR ALL OCCUPANTS LEFT UNPROTECTED BY THE SHUTDOWN UNTIL THE FIRE PROTECTION SYSTEM HAS BEEN RETURNED TO SERVICE. CFC-2019: SEC 901.7
8. COVERINGS PLACED ON OR OVER FIRE PROTECTION DEVICES TO PROTECT THEM FROM DAMAGE DURING CONSTRUCTION PROCESSES SHALL BE IMMEDIATELY REMOVED UPON THE COMPLETION OF THE CONSTRUCTION PROCESSES IN THE ROOM OR AREA IN WHICH THE DEVICES ARE INSTALLED. CFC-2019: SEC. 3308.7
9. READILY ACCESSIBLE EMERGENCY TELEPHONE FACILITIES SHALL BE PROVIDED IN AN APPROVED LOCATION AT THE CONSTRUCTION SITE. CFC-2019: SEC. 3309.1
10. FIRE DEPARTMENT ACCESS ROADS SHALL BE ESTABLISHED AND MAINTAINED AT ALL TIMES. CFC-2019: SEC. 3310
11. REQUIRED MEANS OF EGRESS SHALL BE MAINTAINED DURING CONSTRUCTION AND DEMOLITION, REMODELING OR ALTERATIONS AND ADDITIONS TO ANY BUILDING. CFC-2019: SEC. 3311.2. ALL TEMPORARY EXITS AND EXIT MODIFICATIONS SHALL BE APPROVED BY THE FIELD FIRE AND LIFE SAFETY OFFICER.
12. FIRE DEPARTMENT WATER MAINS AND FIRE HYDRANTS SHALL BE OPERATIONAL AT ALL TIMES AND SHALL BE IN ACCORDANCE WITH CFC-2019: SEC. 507 & SEC. 3312.1
13. IN BUILDINGS REQUIRED TO HAVE STANDPIPES BY CFC-2019: SEC. 905.3, NOT LESS THAN ONE STANDPIPE SHALL BE PROVIDED FOR USE DURING CONSTRUCTION. CFC-2019: SEC. 3313.1
14. FIRE PROTECTION SYSTEMS SHALL BE MAINTAINED OPERATIONAL AT ALL TIMES. CFC-2019: SEC. 3314
15. IN BUILDINGS WHERE AN AUTOMATIC SPRINKLER SYSTEM IS REQUIRED BY THIS CODE, IT SHALL BE UNLAWFUL TO OCCUPY ANY PORTION OF A BUILDING OR STRUCTURE UNTIL THE AUTOMATIC SPRINKLER SYSTEM INSTALLATION HAS BEEN TESTED AND APPROVED. CBC-2019: SEC. 3312.1 & CFC-2019: SEC. 3314.1
16. FIRE EXTINGUISHERS SHALL BE PROVIDED FOR BUILDINGS UNDER CONSTRUCTION. THE NUMBER AND TYPE OF EXTINGUISHERS SHALL BE AS REQUIRED BY THE HCAI FIRE MARSHAL OR LOCAL FIRE DEPARTMENT. CFC-2019: SEC. 906 & 3315.1
17. SMOKE DETECTORS SHALL BE COVERED DURING ALTERATIONS. CFC-2019: SEC338.7.1; NFPA 72-2019, SEC. 17.7.1.11
18. PEDESTRIANS SHALL BE PROTECTED DURING CONSTRUCTION, REMODELING AND DEMOLITION ACTIVITIES AS REQUIRED BY THE CBC-2019: CHAPTER 33 & TABLE 3306.1. SIGNS SHALL BE PROVIDED TO DIRECT PEDESTRIAN TRAFFIC.
19. CONSTRUCTION MATERIALS AND EQUIPMENT SHALL NOT BE PLACED OR STORED SO AS TO OBSTRUCT ACCESS TO FIRE HYDRANTS, STANDPIPES, FIRE OR POLICE ALARM BOXES, CATCH BASINS OR MANHOLES. CBC-2019: SEC. 3308.1.1.
20. WHERE PROVIDED, THROUGH PENETRATION FIRESTOP AND MEMBRANE PENETRATIONS DETAILS ARE REFERENCE ONLY. THROUGH PENETRATION AND MEMBRANE PENETRATIONS SHALL BE PROTECTED BY AN APPROVED PENETRATION FIRESTOP SYSTEM OR MEMBRANE PENETRATION FIRESTOP SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E814 OR UL 1479, WITH A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH (2.49 PA) OF WATER OR OTHERWISE PERMITTED BY CBC SECTION 714. LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS, MEMBRANE PENETRATION PROTECTION AND OTHER PERMITTED MEANS AND METHODS OF PENETRATION PROTECTION SHALL BE SUBMITTED FOR HCAI FDD REVIEW AND APPROVAL PRIOR TO INSTALLATION. 2019 CALIFORNIA BUILDING CODE (CBC) SECTION 107.2.1.
20. WHERE A FIRE WATCH IS REQUIRED DURING CONSTRUCTION, THE OWNER SHALL OBSERVE THE REQUIREMENT PER HCAI PIN 14

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Consultant

SKA Project Number
2219

HCAI Number
S221127-38-00

HCAI seal/signature
REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
FACILITIES DEVELOPMENT DIVISION
9/27/2022, 7:48:26 AM
S221127-38-00
Pedar Pemme

Seal/Signature
REGISTERED ARCHITECT
MADELYN MCCLELLAN
C37097
EXP. 9/30/2023
STATE OF CALIFORNIA

Issued for
HCAI PLAN REVIEW

1 BACKCHECK #1 - JS	09/21/2022

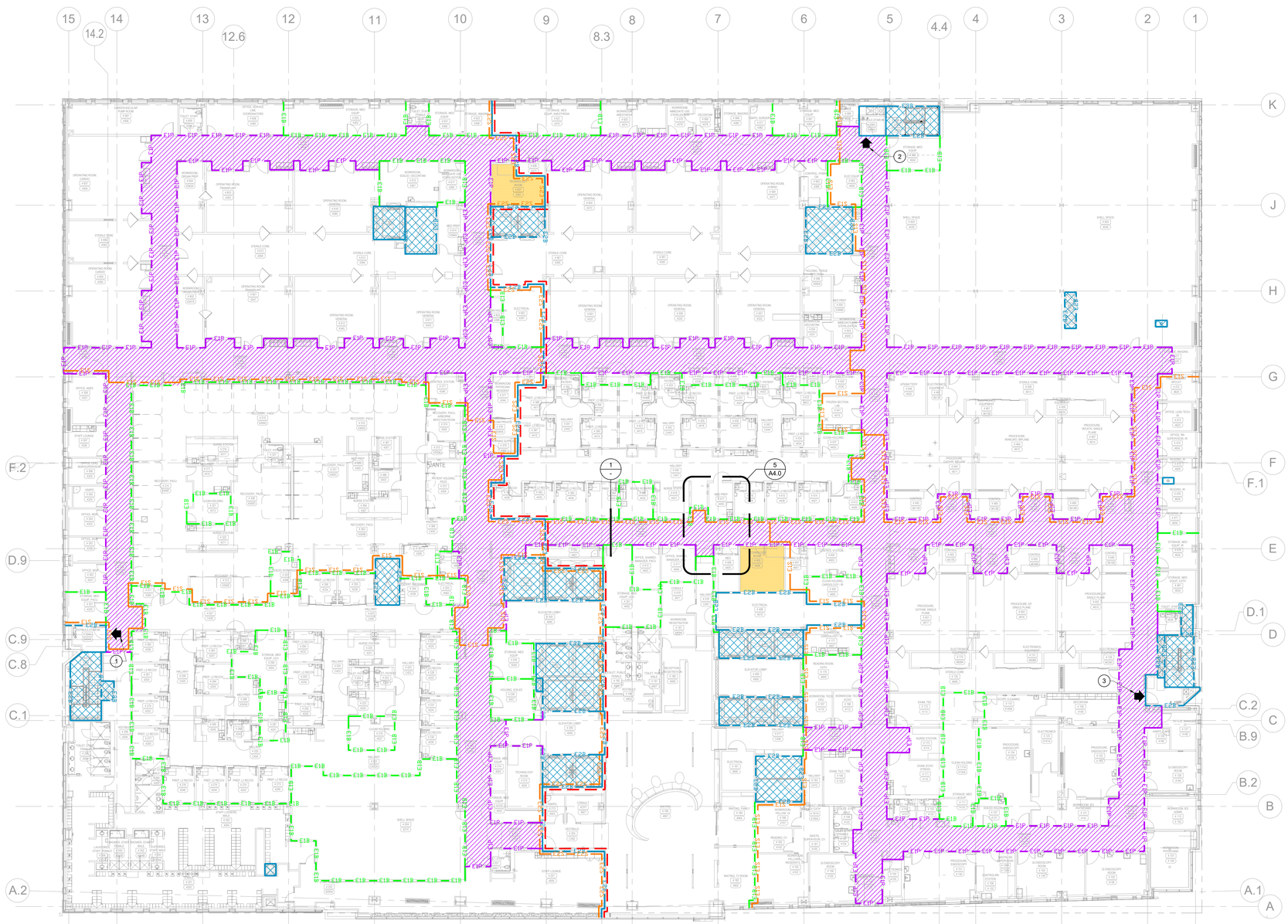
Drawn by JS
Checked by CL

Project Name
4TH FLOOR ACU AUTOMATIC DOOR OPERATORS

Sheet Title
COVER SHEET, GENERAL NOTES, ABBREVIATIONS & PROJECT INFORMATION

Date 07/06/2022
Scale AS NOTED
Sheet Number
A0.0

30 X 42



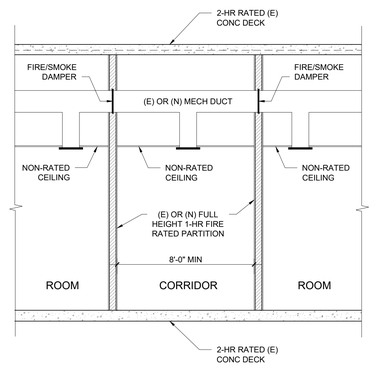
17 LEVEL 4 FIRE & LIFE SAFETY PLAN
SCALE: 1/8" = 1'-0"

LEGEND:

- (E) TECHNOLOGY ROOM WITH (E) SECURITY EQUIPMENT NOTE: NO NEW EQUIPMENT
- (E) INTERIOR EXIT STAIRWAY OR SHAFT ENCLOSURE WITH 2-HR FIRE BARRIER PER CBC 707.3.1, 707.3.2, 713, 1023.2 AND 1024.3
- (E) CORRIDOR WITH 1-HR FIRE PARTITION PER CBC 708
- (E) SMOKE BARRIER PER CBC 707
- (E) 1-HR FIRE BARRIER PER CBC 707
- (E) 2-HR FIRE BARRIER PER CBC 707
- (E) 4-HR FIRE BARRIER PER CBC 707
- (E) 1-HR FIRE RATED PARTITION PER CBC 708
- (E) HORIZONTAL EXIT DESIGNATION
- (E) EXIT @ GRADE
- (E) EXIT

FLS PLAN KEYNOTES:

1. EXIT DISCHARGE AT GRADE 1 LEVEL DOWN ON LEVEL 3
2. EXIT DISCHARGE AT GRADE 2 LEVELS DOWN ON LEVEL 2
3. EXIT DISCHARGE AT GRADE 3 LEVELS DOWN ON LEVEL 1



1 TYP CORRIDOR SECTION
SCALE: 1/4" = 1'-0"

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SKA Project Number
2219

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S221127-38-00

HCAI seal/signature

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9/27/2022, 7:48:26 AM
S221127-38-00
Pedar Bemme

Seal/Signature

REGISTERED ARCHITECT
SHOUSHUN MOSS
C37097
EXP. 9/30/2023
STATE OF CALIFORNIA

Issued for
HCAI PLAN REVIEW

Drawn by JS
Checked by CL

Project Name
4TH FLOOR ACU AUTOMATIC DOOR OPERATORS

Sheet Title
LEVEL 4 FIRE & LIFE SAFETY PLAN

Date 07/06/2022
Scale AS NOTED
Sheet Number
A2.1

30 X 42

DOOR SCHEDULE

ID	ROOM NAME	ROOM NUMBER	DOOR						FRAME			DETAILS			STC RATING	FIRE RATING	GLAZING	HDWE GROUP	ACCESS CONTROL	REMARKS
			WIDTH	HEIGHT	THICK	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD	JAMB	THRESH						
C491-A	HALLWAY	4 018	3'-6"	7'-9 1/2"	1 3/4"	1	SC	WV	-	HM	PT	13/-	-	-	-	45	-	1	KEY	1, 2
C441-B	NURSE STATION	4 418	3'-6"	7'-9 1/2"	1 3/4"	2	SC	WV	-	HM	PT	14/-	-	-	-	45	-	2	CR	1, 2, 3

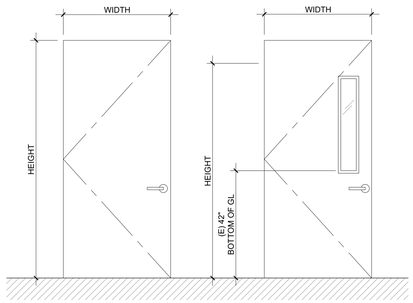
DOOR HARDWARE GROUPS

GROUP 01		C491-A	ENTRANCE			45 MIN FR
1	-	ELECTRIC DOOR STRIKE	VON DUPRIN	6113 X 24VDC X FSE	US32D	3
2	-	ACTUATOR	BEA	10MS41-SA	US32D	3
1	-	POWER TRANSFER	ASSA ABLOY	ADAPTOR KIT FOR SW60	-	3
1	-	OPERATOR	ASSA ABLOY	SW60 42"	-	3, 4
4	-	BUTT HINGE	-	-	-	1
1	-	ELECTRIFIED PANIC DEVICE	-	-	-	1, 5
1	-	CYLINDER	-	-	-	1
1	-	CORE	-	-	-	1
1	-	WALL STOP	-	-	-	1
1	-	THRESHOLD	-	-	-	1
1	SET	GASKETS	-	-	-	1
1	-	DOOR CONTACT	-	-	-	1, 5
1	-	POWER SUPPLY	-	-	-	1, 5
1	-	CARD READER	-	-	-	1, 5, 6
1	-	DOOR CLOSER	-	-	-	2

1. EXISTING TO REMAIN
2. EXISTING TO BE REMOVED
3. NEW HARDWARE. PROVIDE AND INSTALL. MODIFY (E) DOOR OR FRAME AS REQUIRED.
4. OPENING PUSH SIDE MOUNT
5. REWIRE AND RECONFIGURE AS REQUIRED FOR DOOR OPERATOR FUNCTION. COORDINATE WITH FIRE ALARM WORK FOR DELAYED EGRESS FUNCTION. 1
6. EXISITING CARD READER TO ACTUATE DOOR OPERATOR AND DEACTIVATE DELAYED EGRESS. 1

GROUP 02		C441-B	ENTRANCE			45 MIN FR
1	-	ELECTRIC DOOR STRIKE	VON DUPRIN	6113 X 24VDC X FSE	US32D	3
2	-	ACTUATOR	BEA	10MS41-SA	US32D	3
1	-	MISCELLANEOUS	LCN	9530-18.628X42	-	3
1	-	OPERATOR	LCN	9531.STDTRKARM.628.42	-	3, 4
1	-	ELECTRIFIED PANIC DEVICE	-	-	-	1, 5
1	-	CORE	-	-	-	1
1	-	KICK PLATE	-	-	-	1
1	-	WALL STOP	-	-	-	1
1	-	GASKETS	-	-	-	1
1	-	DOOR CLOSER	-	-	-	2

1. EXISTING TO REMAIN
2. EXISTING TO BE REMOVED
3. NEW HARDWARE. PROVIDE AND INSATLL. MODIFY (E) DOOR OR FRAME AS REQUIRED.
4. PULL SIDE MOUNT
5. REWIRE AND RECONFIGURE AS REQUIRED FOR DOOR OPERATOR FUNCTION.



7 DOOR TYPES
SCALE: 1/2" = 1'-0"

TYPICAL DOOR/ HARDWARE NOTES:

1. DIMENSION FOR WIDTH IS CLEAR DIMENSION OF OPENING. PROVIDE DOOR OF APPROPRIATE WIDTH FOR SCHEDULED OPENING.
2. RATED DOORS TO PROVIDE POSITIVE LATCHING. 20-MINUTE ASSEMBLIES SHALL BE PROVIDED WITH APPROVED GASKETING MATERIAL INSTALLED TO PROVIDE A SEAL WHERE THE DOOR MEETS THE STOP ON BOTH SIDES AND THE TOP (CBC 716). MANUFACTURERS' INSTALLATION INSTRUCTIONS SHALL BE AVAILABLE ON THE JOB SIDE FOR ALL RATED DOOR ASSEMBLIES.
3. INSTALLATION INSTRUCTIONS MUST BE PROVIDED AT JOB SITE.
4. INSTALLATION INSTRUCTIONS SHALL CONTAIN INFORMATION REGARDING THE USE OF APPROVED COMPONENTS IN THE OPENING.
5. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 POUNDS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS, SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING DOOR OR FOLDING DOOR. FOR REQUIRED FIRE DOORS, THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 POUNDS. (CBC 11B-404.2.9)
6. IF A DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM. IF A DOOR HAS SPRING HINGES, IT SHALL BE ADJUSTED SO THAT FROM THE OPEN POSITION OF 70 DEGREES, THE DOOR SHALL MOVE TO THE CLOSED POSITION IN 1.5 SECONDS MINIMUM. (CBC 11B-404.2.8)
7. FIRE DOOR ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF THE 2019 CBC, SECTION 716 AND NFPA 80.
8. BACKSET TO BE SCHLAGE PRIMUS CYLINDER LOCK STANDARDS. CONTRACTOR TO COORDINATE EXACT TYPE WITH FACILITY ENGINEERING.

DOOR CONSTRUCTION TYPE LEGEND
HM = HOLLOW METAL
WD = WOOD
SC = SOLID CORE WOOD DOOR
HC = HOLLOW CORE WOOD DOOR
SS = STAINLESS STEEL CLEAN ROOM DOOR

FINISH LEGEND
PT = PAINTED
PL = PLASTIC LAMINATED
WV = WOOD VENEERED
SS = STAINLESS STEEL

GLASS TYPE LEGEND
S = SAFETY GLAZING
T = TEMPERED, 1/4" THICK SET IN STEEL FRAME
CW90 = DOOR VISION PANEL WITH FIRE RATED — GLAZING MARKING D-H-90
CW45 = DOOR VISION PANEL WITH FIRE RATED — GLAZING MARKING D-H-NT-45
CW20 = DOOR VISION PANEL WITH FIRE RATED — GLAZING MARKING D-20

FPG45G = FIRE-RATED LAMINATED GLASS, PIKLINGTON PYROSTOP WITH SMARTGUARD BY TGP

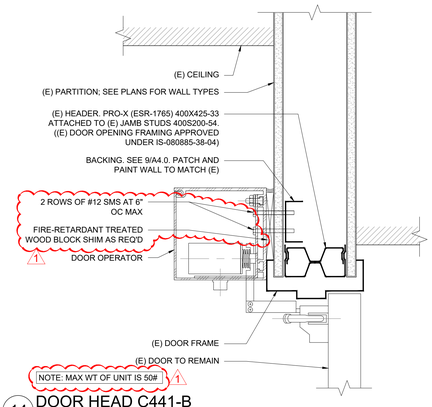
CR = CARD READER
KEY = KEYED
PV = PRIVACY

GENERAL NOTES:

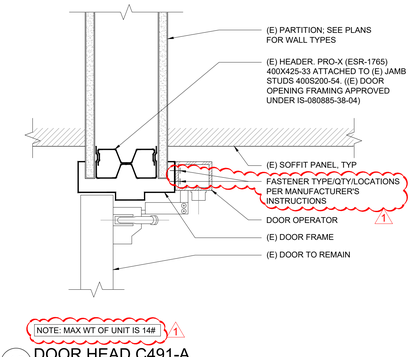
1. INSTALLATION OF AUTOMATIC DOOR OPERATOR AND ASSOCIATED WORK ONLY. (E) CONSTRUCTION SHALL REMAIN AND BE PROTECTED FROM DAMAGE.
2. PATCH AND FINISH EXISTING DOOR TO CLOSELY MATCH (E) FINISH AFTER REMOVAL OF (E) HARDWARE.

KEYNOTES:

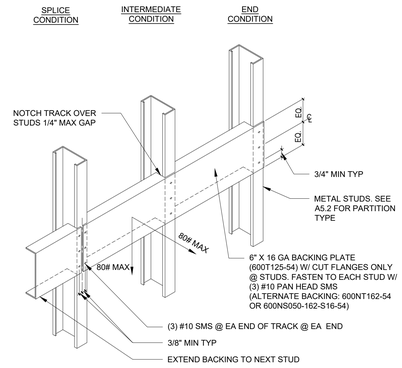
1. (E) NURSE STATION MILLWORK
2. (E) CARD READER TO ACTUATE DOOR OPERATOR
3. DOOR ACTUATOR; CL AT 45" AFF



14 DOOR HEAD C441-B
SCALE: 3" = 1'-0"



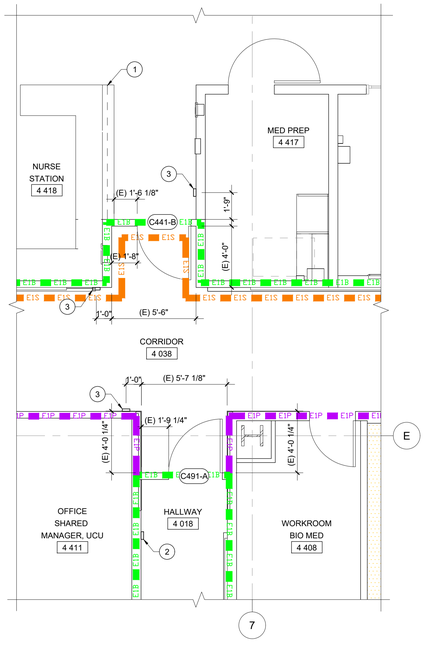
13 DOOR HEAD C491-A
SCALE: 3" = 1'-0"



NOTES:

1. USE #12 SMS WHEN ATTACHING ITEMS TO BACKING PLATE.COORDINATION LOCATION, LENGTH, HEIGHT, WIDTH AND NUMBER OF BACKING PLATES W/ ITEMS INDICATED IN THE DRAWINGS AND SPECIFICATIONS.
2. FOR THE PROPER METHOD OF ATTACHMENT REFER TO THE DETAILS IN THESE DRAWINGS. IF NOT SHOWN REFER TO MANUFACTURERS SPECIFICATIONS FOR PROPER ATTACHMENT .
3. BACKING PLATES SHALL BE TYPICALLY MEASURED TO THE CENTERLINE.
4. REMOVE ANY EXISTING FINISH AND INSTALL BACKING PLATES AS INDICATED. PATCH AND PAINT TO MATCH ADJACENT FINISH.
5. BACKING PLATE SHALL BE EXTENDED ONE STUD BAY BEYOND EDGE OF HUNG ITEM OR CABINETRY.
6. NOTCHING OR CUTTING OF BACKING PLATE IS NOT PERMITTED EXCEPT AS SHOWN.

9 TYP BACKING PLATE DETAIL TYPE 2
SCALE: NTS



5 ENLARGED PLAN
SCALE: 1/4" = 1'-0"

Architect
SKA
SMITH-KARNG ARCHITECTURE
800 Haight Street
San Francisco, CA 94117
Office: 415.552.3600

Owner
Sutter Health
We Plus You
CALIFORNIA PACIFIC MEDICAL CENTER
VAN NESS CAMPUS
1101 VAN NESS AVENUE
SAN FRANCISCO, CA 94109

Consultant

SKA Project Number
2219

HCAI Number
S221127-38-00

HCAI seal/signature
REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF 7 CAL CCR
APPROVED
Department of Health Care Access and Information
FACILITIES DEVELOPMENT DIVISION
9/27/2022, 7:48:28 AM
S221127-38-00
Pedar Bemme

Seal/Signature
REGISTERED ARCHITECT
CHRISTOPHER MCCOY
C 037097
EXP. 9/30/2023
STATE OF CALIFORNIA

Issued for
HCAI PLAN REVIEW

1 BACKCHECK #1 - JS	09/21/2022

Drawn by JS
Checked by CL

Project Name
4TH FLOOR ACU AUTOMATIC DOOR OPERATORS

Sheet Title
ENLARGED PLANS & INTERIOR ELEVATIONS

Date 07/06/2022
Scale AS NOTED
Sheet Number
A4.0

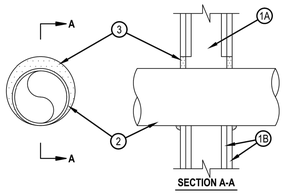
30 X 42

System No. W-L-1054

WL 1054

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings —1 and 2 Hr (See Items 1 and 3)	F Ratings — 1 and 2 Hr (See Items 1 and 3)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating (Without Movement) at Ambient — Less Than 1 CFM/sq ft	FH Ratings —1 and 2 Hr (See Items 1 and 3)
L Rating (Without Movement) at 400°F — Less Than 1 CFM/sq ft	FTH Rating — 0 Hr
M Rating (Movement) — See Table 1	FTH Rating — 0 Hr
	L Rating at Ambient — Less Than 5.1 L/s/m2
	L Rating at 204°C — Less Than 5.1 L/s/m2



SECTION A-A

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. For M Rating, steel studs to be min 3-5/8 in. (92 mm) wide. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.
   B. Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. (819 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls.

The F and FH Ratings of the firestop system are equal to the fire rating of the wall assembly. The M Rating is applicable only to 1 hr rated walls.

Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 21, 2020

System No. W-L-1054

WL 1054

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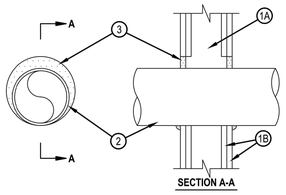

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Hilti Firestop Systems

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Page: 1 of 2

FIRE PENETRATION GENERAL NOTE:

WHERE PROVIDED, THROUGH-PENETRATION FIRESTOP SYSTEM AND MEMBRANE PENETRATION DETAILS ARE FOR REFERENCE ONLY.
THROUGH-PENETRATIONS AND MEMBRANE PENETRATIONS SHALL BE PROTECTED BY AN APPROVED PENETRATION FIRESTOP SYSTEM OR MEMBRANE PENETRATION FIRESTOP SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E 814 OR UL 1479, WITH A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH (2.49 PA) OF WATER OR AS OTHERWISE PERMITTED BY CBC, SECTION 714. LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS AND MEMBRANE PENETRATIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE INSTALLATION DETAILS FOR LISTED SYSTEMS.
LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS, MEMBRANE PENETRATION PROTECTION AND OTHER PERMITTED MEANS AND METHODS OF PENETRATION PROTECTION SHALL BE SUBMITTED FOR OSHPD FDD REVIEW AND APPROVAL PRIOR TO INSTALLATION.

ELECTRICAL SPECIFICATIONS

SECTION 16010

ELECTRICAL WORK PART 1. – GENERAL

1.01 GENERAL REQUIREMENTS
A. See Architectural contract drawings for Special Conditions that apply to this section
1.02 WORK REQUIRED
A. Furnish and install all electrical systems as shown and specified, including wiring and connections to certain equipment furnished under other sections and any work not specifically noted but that can be reasonably assumed to be necessary to provide a complete and functional system.
1.03 RULES AND REGULATIONS
A. All work and materials shall be in full accordance with the rules and regulations of the latest codes, and applicable regulations of local utility companies.:
2019 CALIFORNIA ADMINISTRATIVE CODE Part 1, Title 24, California Code of Regulations
2019 CALIFORNIA BUILDING CODE Part 2, Title 24, California Code of Regulations
2019 CALIFORNIA ELECTRICAL CODE Part 3, Title 24, California Code of Regulations
2019 CALIFORNIA FIRE CODE Part 9, Title 24, California Code of Regulations
2019 CALIFORNIA ENERGY CODE
B. Nothing in these drawings or specifications is to be construed to permit work not conforming to the above codes.
C. Drawings and/or specifications shall take precedence when work and material called for exceed code requirements.
1.04 RELATED WORK SPECIFIED ELSEWHERE
A. Furnishing of motors, fans, compressors, heaters, and controls included under Mechanical Work, General Requirements.
B. Finish painting of exposed metal surfaces, included under Painting Section.
1.05 PRODUCT HANDLING
A. Contractor shall be responsible for delivery, storage, protection and placement of all equipment and materials.
B. Protection: Contractor shall protect from damages during construction work and materials of other trades as well as electrical work and material. Electrical equipment stored and installed on job site shall be protected from, dust, water, or any other damage.
1.06 PERMITS, FEES, AND INSPECTIONS
A. Refer to General Conditions.
1.07 DRAWINGS AND SPECIFICATIONS
A. Information presented in the specifications and on the drawings is as exact as could be secured, but its extreme accuracy is not guaranteed. The drawings and specifications are for the assistance and guidance of the Contractor, and exact locations, distances, levels, etc., will be governed by the building, and the Contractor shall accept same with this understanding.
B. The drawings indicate schematically the layouts of equipment, accessories and wiring systems and shall be followed as closely as possible. Other drawings and actual field conditions shall be examined, noting all conditions to the Architect for adjustment before proceeding with work.
C. Minor changes may be made, providing change is made before equipment and wiring systems or work directly connected to same is installed and no extra materials are required.
1.08 EXAMINATION OF SITE
A. The Contractor shall be held to have visited the site, checked existing conditions, and satisfied himself as to the conditions under which the work is to be performed before submitting his bid. No allowances shall be made in his behalf for any extra expense to which he may be put due to failure or neglect to discover conditions affecting his work.
1.09 SHOP DRAWINGS AND SUBMITTALS
A. Within 10 days after award of contract submit for approval PDF copies of complete submittal data containing complete information and catalog cuts on all equipment, including equipment which is to be furnished as specified. The submittal shall be complete for the project and submitted at one time. Samples of materials shall be furnished when requested.
B. All submittals shall be checked by the Contractor for conformance to the requirements of the Construction Documents before forwarding for approval. Contractor shall be responsible for all quantities and errors and omissions of submittals.
C. Submittal List:
1. Devices
2. Conduit and Wire
1.10 WORKMANSHIP
A. Good workmanship shall be evidenced in the installation of all electrical materials and equipment. Equipment shall be level, plumb, and true with the structure and other equipment. All materials shall be firmly secured in place and adequately supported and permanent. The requirements of the codes are minimum standards. The recommendations of the National Electrical Contractors Association Standard of Installation shall be followed except where otherwise specifically directed.
1.11 CLEANING
A. After all other work such as plastering, painting, etc., has been accomplished, lighting fixtures, panelboards, switchboards and all other electrical equipment shall be cleaned of all dirt grease, plaster, paint or other marks.
1.12 ELECTRICAL WORK FOR EQUIPMENT PROVIDED BY OTHERS
A. Provide all necessary electrical connections to all equipment provided by Varian. Obtain specific power and control wiring requirements and connection points from others to perform electrical work. Contractor shall assist in testing equipment but responsibility is limited to correctly installing electrical wiring and connections.
1.13 MANUFACTURER'S DIRECTIONS
A. Follow manufacturer's directions where these directions cover points not included on the drawings or the specifications.
1.14 MISCELLANEOUS EQUIPMENT
A. This Contractor shall provide all conduit, conductors, disconnects, and connections for power to equipment requiring electrical services.
1.15 WARRANTIES
A. Per Contract with general contractor.
1.16 RECORD DRAWINGS
A. Provide red lined set of latest Electrical Contract Drawing to General Contractor for preparation of formal record drawings by Electrical Engineer.
1.17 INTERRUPTION OF SERVICE OR SHUTDOWN
A. Any required interruption of circuits, feeders, signal systems, or service shall meet the specific approval and requirement of the Owner. When deemed necessary, such work shall be scheduled with the Owner at the Owner's convenience.

PART 2. – PRODUCTS

2.01 GENERAL
A. Unless otherwise noted, all material and equipment shall be new, of the type, capacity and quality specified and free from defects. Material shall bear the label of, or be listed by, the Underwriters' Laboratories unless of a type for which label listing service is not provided.
2.02 ELECTRIC METALLIC TUBING (EMT)
A. Shall be galvanized steel, thin wall. Maximum trade size used shall be 4 inches. May be used concealed in dry wall partitions, above furred ceiling, and for indoor surface installation in mechanical equipment rooms or where exposed runs are specifically noted on drawings. May not be used underground, under floor, in concrete, or in any location subject to physical damage. MFGR: Allied Tube & Conduit, Western Tube & Conduit Corp. or equal.
B. Connectors shall be Steel City or equal steel set screw with insulated throats. Couplings shall be steel set screw or compression type.
C. Provide custom snap around conduit marker sleeves, mfgr by Seton, with voltage identification and feed source on feeder conduit runs.
D. Conduit used for fire alarm systems shall be red.
2.03 FLEXIBLE METAL CONDUIT
A. Shall be galvanized steel with minimum trade size of 1/2" as permitted by CEC, maximum of 6ft length. In wet and corrosive locations or outside shall be liquid-tight.
2.04 CONDUCTORS
A. All conductors shall be in raceways. Conductors shall be 600V, 90 degree minimum, Stranded copper, 98% conductivity, color coded by phase, dedicated neutral, ground, type THHN/THWN-2/MTW/T90, except as noted Drawings. Minimum size shall be No. 12 AWG except for NO. 14 AWG min. control circuits. MFGR: Southwire SimPull, Cerro Wire, United Copper Industries, or equal. Signal conductors shall be as indicated on Drawings or as required by equipment manufacturers.
B. Color code all branch circuits and feeders as follows:

277/480 VOLT		120/208 VOLT	
Phase A	Brown	Phase A	Black
Phase B	Orange	Phase B	Red
Phase C	Yellow	Phase C	Blue
Neutral	Gray	Neutral	White
Ground	Green	Ground	Green

C. Phasing: Terminals in panelboards and other equipment shall be phased A, B, C, reading left to right or top to bottom looking into the front of the equipment.
D. Circuit Identification: Each branch circuit, control and signal conductor shall be labeled with the circuit number or system name and terminal number it is connected to. Use T&B vinyl or Brady Permashield mylar markers. Conductors shall be labeled at each panelboard, switchboard, terminal cabinet, pull box, and at each point of utilization such as fixture, motors, speakers, etc. Labeling shall correspond to control diagrams where applicable.
E. Splices: For conductors No. 10 and smaller, preinsulated type connectors, 3M Scotchlocks, or equal. Splices No. 8 and larger use compression type connector, insulated with Scotchtape No. 88 or equal. Use Scotchfill or equal around large or irregularly shaped splices for insulation build-up and Scotchtape No. 88. Wire splicing devices shall be sizes according to manufacturer's recommendations. larger splices as recommended by 3M Company. All splices to be prepared as hereinbefore specified before resin kits are applied. Wire splicing devices shall be sized according to manufacturer's recommendations.
F. Cable Ties: For wire training and clamping in cabinets and enclosures use nylon cable ties, TY-RAP or equal.
G. Swab conduits before installing cables, and exercise care in pulling to avoid damage or disarrangement of conductors; use approved grips.
2.05 BOXES
A. Shall be of size and shape best suited for particular application, properly code-sized for number of wires and conduits passing through or terminating therein, but in no case less than four inches square or octagon. Telephone outlet boxes shall be 4-11/16 in. square by 2-1/8 in. deep, minimum. Support boxes directly to structural members, framing or blocking by means of screws, anchors, bolts, embedded in masonry or concrete.
B. Outlet Boxes: Shall be one-piece pressed or welded steel, sherardized or galvanized. Boxes shall be fitted with flush device covers and "Plaster Rings", or tile rings in masonry or concrete. Surface covers shall be used where exposed wiring is permissible. Boxes in damp or outdoor locations shall be malleable iron with threaded hubs, fitted with gasket and cast cover. MFGR: Steel City or equal.
1. Fire alarm boxes shall be red. Label cover with circuit description.
C. Pull Boxes: Indoor pull boxes fabricated of code gauge steel, of size shown or as required, complete with screw covers, flush type in finished areas, surface type in unfinished areas, shop primed, and job painted to match adjacent finish. MFGR: Cooper B-Line or equal.
2.06 DEVICES
A. Device Plates: Shall be Leviton or equal: smooth nylon in interior areas.
B. Toggle Switches: Heavy duty, quiet type, rated 20 amperes at 120/277 volts A.C. Coverplate color shall match existing in room, except emergency powered shall be red unless entire hospital is on emergency power-then circuit label shall be red. Leviton 1221-2W series.
C. Receptacles: Hospital Grade rated 20 amperes as indicated at 125 volts A.C., double sided contacts, back and side wired. Receptacle and coverplate color shall match existing in room, except emergency powered shall be red unless entire hospital is on emergency power-then circuit label shall be red. Receptacle shall fit flush with cover plate. Leviton 8300 series.
D. Device cover plates: Leviton ABS plastic cover plates to match receptacle or switch color except emergency powered shall be red unless entire hospital is on emergency power-then circuit label shall be red. Label device with circuit in black, i.e.: CRC-3.
E. Manual Motor Starter switch/disconnect:
2HP, 120v, NEMA 1 rated Leviton N1302-DS, NEMA 3R N3302-DS.
F. Special Purpose Outlets and Receptacles: Leviton or equal-as indicated on Drawings.

Hospital Grade Receptacles	Leviton 8300-W
Hospital Grade GFI Receptacle	Leviton N7899-HGW
Hospital Grade GFI Tamper-resistant	Leviton X7899-HGW
Hospital Grade GFI Weather-resistant	Leviton WT899-HGW
IN-Use Extra Duty Weather Proof Cover	Hubbell Taymac MM720C

G. Heavy Duty Safety Switches: Square D Class 3110. NEMA 1 at interior, NEMA 3R at exterior, non-fuseable or fusible per contract drawings, fuse rating per equipment manufacturer requirements. Provide Cooper Bussman time delay fuses where required. Use engraved label with unit name and circuit. White background and black letters for normal power. Red background and white letters for emergency power.
2.07 PANELBOARDS
A. Revise panelboard directories typewritten, to conform to new circuit assignment at time of occupancy, stating type of load and location. Use room numbers and/or designations actually appearing on room door nameplates, or used by the Owner.
2.08 FIRE ALARM MODIFICATIONS
A. See Fire Alarm drawings for all new scope of work with floor plan, devices, wiring, equipment schedule, sequence of operation, voltage drop calculations, details, riser diagram, new devices as required per current applicable codes.
B. All work shall comply with applicable codes. Add address to all devices.
C. All fire alarm cables run without conduit to be red fire listed plenum rated cables. all splices to be completed to red steel electrical box and labeled.
D. Test new device operation in presence of Authority having jurisdiction for sign off.
E. Coordinate fire alarm work with new Auto door hardware, and required function.

PART 3. – EXECUTION

3.01 COOPERATION
A. Coordinate work with that of all contractors on the job for an efficient and effective completion of the project. Refer to the contract documents of other trades for construction details.
3.02 WORKING SPACE
A. Adequate working space shall be provided around electrical equipment in strict compliance with the Electrical Safety Orders. In general, provide six and one-half feet (6' – 6") of headroom and thirty-six inches (36") minimum clear work space in front of panelboards and controls for one hundred and twenty (120) volts to ground, and forty-eight inches (48") for (277) volts to ground.
3.03 GROUNDING AND BONDING
A. Provide grounding and bonding for all electrical equipment in accordance with the applicable codes, rules and regulations. Permanently and effectively ground all raceway systems, supports, cabinets, panels, motor frames, lighting fixtures, grounding type receptacles and utilization apparatus. Obtain good contact between conduit, tubing and fittings, cabinets, outlet boxes and equipment.
3.04 TESTS
A. Test all wiring and connections for continuity and grounds before any fixtures or equipment are connected; where such tests indicate faulty insulation or other defects they shall be located, repaired, and tested again at the Contractor's expense. Electrical loads shall be balanced at the panelboards and motors shall be checked for correct rotation.
3.05 WALL BOXES
A. Set flush and level with finished surface, provide proper extension rings where necessary and anchor securely to structure.
3.06 LABELING
A. Label all receptacles and switches with black letters on clear background labeler noting panel and circuit (I.E. 2Y2D-2)
B. Label all junction boxes and pull boxes with circuits or description of cabling running thru.
C. Retype any revised panel schedules on door of panel affected.

End of section

ELECTRICAL SYMBOLS

	EXISTING JUNCTION BOX
CR	EXISTING CARD READER TO REMAIN
	EXISTING BRANCH CIRCUIT PANEL, SEE PANEL SCHEDULES
	JUNCTION BOX, SIZE AND TYPE AS REQUIRED PER CEC
ADO	AUTO-DOOR OPENER POWER JUNCTION BOX
PP	ELECTRIC DOOR ACTUATOR, HT PER ARCH DETAIL. PROVIDE 1 GANG BOX WITH 3/4"C UP TO CEILING SPACE/DOOR CONTROLLER, ACTUATOR PROVIDED BY GC UNDER ARCH DOOR HARDWARE
1	NUMBERED NOTE TAG – SEE NUMBERED NOTES, SAME SHEET
1 E1.1	INDICATES DETAIL "1" AT SHEET "E1.1"

ABBREVIATIONS LIST

A	AMPERE	NTS	NOT TO SCALE
A.F.F.	ABOVE FINISHED FLOOR	PRI	PRIMARY
B.C.	BARE COPPER	SEC	SECONDARY
C.O.	CONDUIT ONLY, WITH PULL LINE	TTB	TELEPHONE TERMINAL BOARD
CU	COPPER	TYP	TYPICAL
CR BR	CRITICAL BRANCH	UON	UNLESS OTHERWISE NOTED
LS BR	LIFE SAFETY BRANCH	V	VOLTS
EQ BR	EQUIPMENT EM BRANCH	WP	WEATHERPROOF
EC	ELECTRICAL CONTRACTOR	W	WIRE
FA	FIRE ALARM	ø	PHASE
GND/G	GROUND	(D)	DISCONNECT AND REMOVE
J-BOX	JUNCTION BOX	(E)	EXISTING
KVA	KILO VOLT AMP	(F)	FUTURE
MSB	MAIN SWITCHBOARD	(ER)	EXISTING TO REMAIN
MC	MECHANICAL CONTRACTOR	(N)	NEW
		(R)	RELOCATED DEVICE

WIRE AND CONDUIT LEGEND

	(E) CONDUIT RUN
	CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING
	HOME RUN TO PANEL OR OTHER TERMINATION POINT NOTED,
	FLEXIBLE METAL CONDUIT
	3/4"C-2#12,1#12 G CIRCUITRY, DEDICATED NEUTRAL PER CKT, CONDUCTOR SIZE OTHER THAN #12 NOTED ON DRAWING, WITH CODE SIZED GROUND UON. CONDUIT SIZE OTHER THAN 3/4" C NOTED ON DRAWING.
	CONDUIT UP
#10 #10 3/4" C.	EXAMPLE: TWO CIRCUITS IN HOME RUN – 4 #10 AWG, 1 #10 GROUNDING CONDUCTOR (G) IN 3/4" CONDUIT, RUN CONCEALED IN WALL OR ABOVE CEILING.

DRAWING LIST

E0.0	ELECTRICAL SYMBOLS, SPECIFICATIONS, DETAIL
E1.0	AREA G & B ELECTRICAL POWER PLAN, PARTIAL ONE LINE, PANEL SCHEDULE

Architect
SKA
SMITH-KARNG ARCHITECTURE
800 Haight Street
San Francisco, CA 94117
Office: 415.552.3600

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Job No. 22201

SKA Project Number
2219/SEC 22201

HCAI Number
S221127-38-00

HCAI seal/signature

Seal/Signature

REGISTERED ARCHITECT JOHN WEBB JR. C37067 Exp. 9/30/2023 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER RICHARD C. HOWARD No. E-26-2023 Exp. 6-30-2023 ELECTRICAL STATE OF CALIFORNIA

Date Signed: 4.7.2022

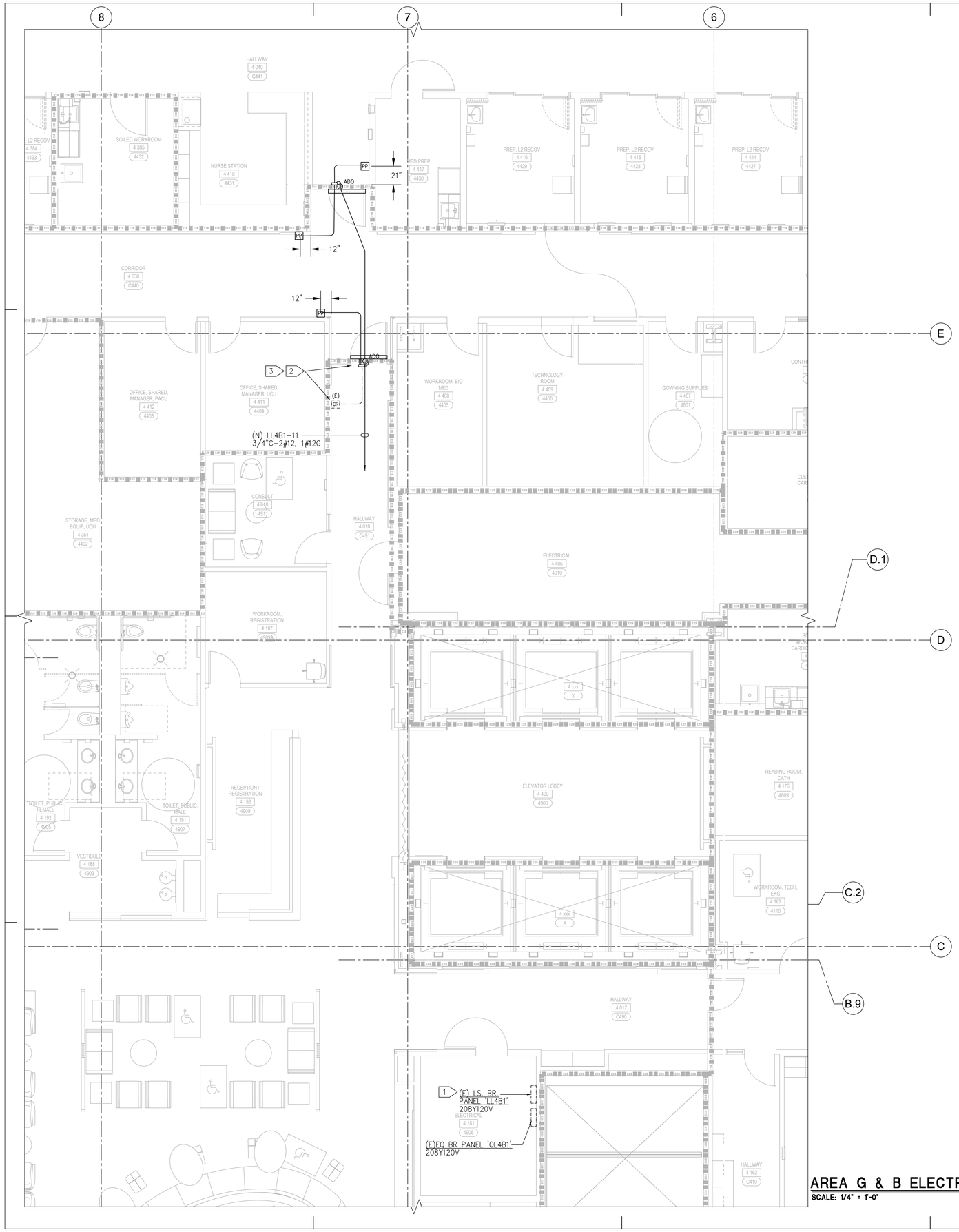
Issued for
HCAI PLAN REVIEW

Drawn by RY/JS
Checked by JS/RH
Project Name
4TH FLOOR ACU AUTOMATIC DOOR OPERATORS

Sheet Title
ELECTRICAL SYMBOLS, SPECIFICATIONS, DETAIL

Date 07/06/2022
Scale AS NOTED
Sheet Number
E0.0

30 X 42



AREA G & B ELECTRICAL POWER PLAN

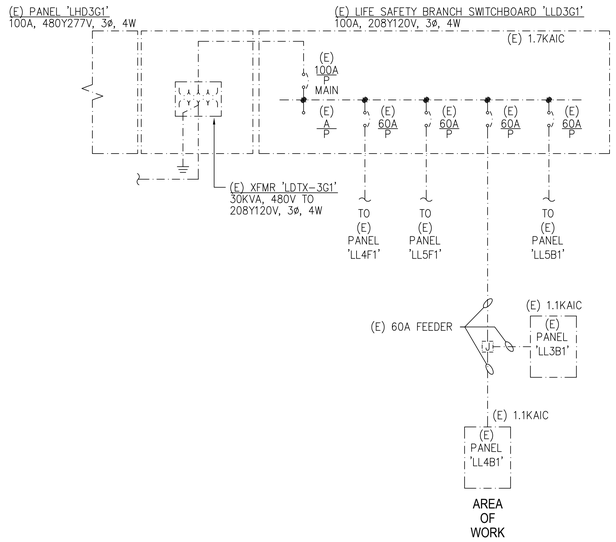
SCALE: 1/4" = 1'-0"

1 / E1.0

N

NUMBERED NOTES

1. CONNECT NEW LS BR CIRCUIT TO SPARE 20A/1P BREAKER #11. RUN NEW LS BR CIRCUIT THROUGH NEW FA RELAY AT EACH DOOR OPENER. SEE FA DRAWINGS.
2. DOOR C491-A: CARD READER TO RELEASE AND ACTIVATE DOOR OPENER WITHOUT DELAY ACTION. DELAY ACTION ON THE PANIC DEVICE IS EXISTING FUNCTION TO REMAIN.
3. DISCONNECT (E) EQUIPMENT BR 20A,120V CIRCUIT QL4B1-5 TO DELAY ACTION, PROVIDE CONTINUED OPERATION OF CIRCUIT TO REMAINDER OF DOORS.



PARTIAL LIFE SAFETY ELECTRICAL ONE LINE DIAGRAM

SCALE: NONE

1 / E5.0

(E) LIFE SAFTEY BRANCH PANEL 'LL4B1'

MAIN: 60A CB — 120/208V, 3 Ph. 4W. — FED FROM: SWBD LLD3G1 VIA SB
MFGR: EATON, TYPE: PRL1A — SURFACE MOUNTED
LOC: ELECT RM. 4181 (4906) — 60 AMP BUS — 10K ISC — NEMA 1

DESCRIPTION	KVA	BKR	CKT	Ph. A	Ph. B	Ph. C	CKT	BKR	KVA	DESCRIPTION
SPARE		20/1	1				2	20/1		SPARE
SPARE		20/1	3				4	20/1		SPARE
SPARE		20/1	5				6	20/1		SPARE
(E) MGA PNL 4603,4128,4114	0.43	20/1	7	0.43			8	20/1		SPARE
(E) AUTO DOORS C4111,C413,4014	1.01	20/1	9		1.01		10	20/1		SPARE
(N) AUTO DOORS *	**0.72**	20/1	11			0.72	12	20/1		SPARE
SPARE		20/1	13				14	20/1		SPARE
SPARE		20/1	15				16	20/1		SPARE
SPARE		20/1	17				18	20/1		SPARE
SUBTOTAL:				0.4	1.0	0.7				
CONNECTED LOAD	2.2 KVA									*** CONNECT TO SPARE BREAKER SHOWN**
TOTAL LOAD	2.2 KVA / 0.360 FACTOR =				6 AMPS					**60 AMP FEEDER IS ADEQUATE**

(E) PANEL 'LL4B1' & 'LL3B1' LOAD SUMMARY - LEVEL II

(E) PANEL LL4B1: LOAD SUMMARY WITH ADDED LOAD = 2.2 KVA
(E) PANEL LL3B1: LOAD SUMMARY = 1.9 KVA
TOTAL REVISED LOAD = 4.1 KVA
11.4 AMPS ON 60AMP FEEDER

60AMP FEEDER IS ADEQUATE FOR ADDED LOAD

Architect

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Owner

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HCAI seal/signature

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
FACILITIES DEVELOPMENT DIVISION
9/27/2022, 7:48:28 AM
S221127-38-00
Pedar Remme

Seal/Signature

REGISTERED ARCHITECT — C37087 — EXP. 9/30/2023 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — JAMES C. HOWARD — NO. E-20629 — EXP. 6-30-2023 — ELECTRICAL — STATE OF CALIFORNIA

Date Signed: 4.7.2022

Issued for
HCAI PLAN REVIEW

Drawn by RY/JS
Checked by JS/RH

Project Name
4TH FLOOR ACU AUTOMATIC DOOR OPERATORS

Sheet Title
AREA G & B ELECTRICAL POWER PLAN, PARTIAL ONE LINE, PANEL SCHEDULE

Date 07/06/2022
Scale AS NOTED
Sheet Number E1.0

30 X 42

Fire Alarm System Tenant Improvement

CALIFORNIA PACIFIC MEDICAL CENTER CATHEDRAL HILL HOSPITAL
4TH FLOOR ACU AUTOMATIC DOOR OPERATORS ADDITION

VAN NESS AND GEARY CAMPUS
SAN FRANCISCO, CA

PROJECT INFORMATION

BUILDING OWNER
SUTTER HEALTH
2280 GATEWAY OAKS DRIVE, SUITE 220
SACRAMENTO, CA 95833

AUTOMATIC SPRINKLER SYSTEM
FULLY SPRINKLERED BUILDING

CONSTRUCTION CLASSIFICATION
TYPE 1-A FIRE RESISTIVE

BUILDING OCCUPANCY
PRIMARY CARE HOSPITAL - GROUP I-2 OCCUPANCY FOR ALL TREATMENT AND NURSING LEVELS 1-10

BELOW-GRADE PARKING - GROUP S-2 OCCUPANCY FOR LEVELS P1, P2 AND P3

PUBLIC, OFFICE AND SUPPORT SPACES - GROUP B OCCUPANCY FOR LEVELS 1, 2 AND 11

LARGE DINING AREA - GROUP A-2 OCCUPANCY

LARGE CONFERENCE ASSEMBLIES - GROUP A-3 OCCUPANCY

CENTRAL PLANT AND OTHER MAIN MECHANICAL AND ELECTRICAL ROOMS - GROUP F-2 OCCUPANCY

CENTRAL STATION

MONITORING INFORMATION
RAPID RESPONSE MONITORING SERVICES
400 E RINCON
CORONA, CA 92879
(800) 932-3822
UUFX.S3282-3

ALARM SERVICE COMPANY
CONVERGINT TECHNOLOGIES
5860 WEST LAS POSITAS DRIVE, SUITE 7
PLEASANTON, CA. 94588
(510) 300-2800

SCOPE OF WORK

THE SCOPE OF WORK IS TO PROVIDE SEVERAL AUTOMATIC DOOR OPERATORS IN VARIOUS LOCATIONS THROUGHOUT THE EXISTING CATHEDRAL HILL HOSPITAL. THE FIRE ALARM SYSTEM WILL INCLUDE THE FOLLOWING:

1. ADDING AUTOMATIC DOOR OPERATORS PER DOOR SCHEDULE LIST AS SPECIFIED ON SHEET FA.0.03

GENERAL NOTES

1. ALL DEVICE LOCATIONS, WIRING, CONDUITS SHOWN ON DRAWINGS ARE SUBJECT TO FIELD VERIFICATION. ANY DEVIATION MUST BE APPROVED BY THE FIRE ALARM CONTRACTOR AND MUST COMPLY WITH THE NATIONAL AND LOCAL CODES LISTED ON THIS SHEET.
2. 120VAC PRIMARY POWER SOURCE TO FIRE ALARM PANELS AND POWER SUPPLIES MUST BE ON A MECHANICALLY PROTECTED DEDICATED BRANCH CIRCUIT WITH DISCONNECTING MEANS PERMANENTLY IDENTIFIED AT THE CONTROL UNIT. DISCONNECTING MEANS TO BE IDENTIFIED AS "FIRE ALARM CIRCUIT" IN RED MARKING AND ACCESSIBLE ONLY TO AN AUTHORIZED PERSONNEL.
3. 120VAC AND FIRE ALARM CIRCUITS MUST MAINTAIN A 1/4" SEPARATION. NEVER RUN IN SAME RACEWAY.
4. AFTER COMPLETION OF WORK, ELECTRICAL CONTRACTOR MUST PROVIDE TO THE FIRE ALARM CONTRACTOR A COMPLETE SET OF "RECORD DRAWINGS" SHOWING ALL DEVICE LOCATIONS, DEVICE ADDRESSES, CIRCUIT NUMBERS AND WIRING (IF APPLICABLE).
5. SEE DETAIL SHEETS FOR DEVICE MOUNTING HEIGHTS AND INSTALLATION INFORMATION. ANY DEVIATION MUST BE APPROVED BY THE FIRE ALARM CONTRACTOR AND MUST COMPLY WITH THE NATIONAL AND LOCAL CODES LISTED ON THIS SHEET.
6. BACKBOXES, JUNCTION BOXES AND TERMINAL CABINETS TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR. TERMINAL CABINETS FOR FIRE ALARM USE MUST BE LABELED "FATC" AND JUNCTION BOXES TO HAVE RED COVERS.

APPLICABLE CODES

2019 CALIFORNIA BUILDING CODE
(2018 IBC AND 2019 CALIFORNIA AMENDMENTS)
(2018 NFPA 101 AS REFERENCED BY CBC)

2019 CALIFORNIA ELECTRICAL CODE
(2017 NEC AND 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA MECHANICAL CODE
(2018 UMC AND 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA FIRE CODE
(2018 IFC AND 2019 CALIFORNIA AMENDMENTS)

2018 NFPA 101 LIFE SAFETY CODE

2016 NFPA 72 NATIONAL FIRE PROTECTION ASSOCIATION

OSHPD POLICY INTENT AND CODE APPLICATION NOTICES

FIRESTOPPING

PENETRATIONS THRU WALLS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. FIRE STOP MATERIAL SHALL BE A UL LISTED ASSEMBLY INSTALLED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS. SEE DRAWING A9.0.01 AND "THROUGH PENETRATIONS FIRESTOP" BINDER FOR INFORMATION AND DETAILS

SEISMIC ANCHORAGE INFORMATION

EQUIPMENT	ROOM #	DIMENSIONS (in) H x W x D	CABINET	OPERATING WEIGHT (LBS)	STRUCTURAL DETAIL / DRAWING NUMBER
LEVEL P3					
FATC 128	P3102	23.5" x 23.5" x 5.5"	-	40 (CABINET ONLY)	E8.24 / 9
BPS-B1	P3102	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
BPS-B2	P3102	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
BPS-B3	P3102	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
BPS-B4	P3102	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
UIO RCC CABINET	P3102	47.75" x 25" x 6.75"	3-RCC21R	80	E8.24 / 11
BPS-B5	P3313	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
LEVEL 1					
FACP-01	1901	49.75" x 27.34" x 5.51"	3-CAB21B	250	E8.24 / 11
BATTERY CABINET	1901	36.125" x 25" x 8.0"	3-RCC14R	135	E8.24 / 11
NODE-02	1901	47.75" x 25" x 6.75"	3-RCC21R	200	E8.24 / 11
NODE-03	1901	47.75" x 25" x 6.75"	3-RCC21R	200	E8.24 / 11
FATC 128	1901	23.5" x 23.5" x 5.5"	-	40 (CABINET ONLY)	E8.24 / 9
BPS-B7	1901	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
BPS-B8	1901	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
UIO RCC CABINET	1901	47.75" x 25" x 6.75"	3-RCC21R	120	E8.24 / 11
UIO RCC CABINET	1901	47.75" x 25" x 6.75"	3-RCC21R	120	E8.24 / 11
FAN-13	1901	41.225" x 29.413" x 4.625"	RSF-L-GR	150	E8.24 / 11
GANN-14	1901	40.412" x 52.224" x 4.625"	RSG-GR	275	E8.24 / 11
BPS-B6	1500	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
BPS-B9	1500	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
BPS-B10	1500	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
LEVEL 2					
NODE-04	2282	47.75" x 25" x 6.75"	3-RCC21R	200	E8.24 / 11
FATC 128	2282	23.5" x 23.5" x 5.5"	-	40 (CABINET ONLY)	E8.24 / 9
BPS-B11	2282	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
BPS-B12	2282	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
BPS-B13	2929	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
BPS-B14	2929	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
LEVEL 3					
NODE-05	3910	47.75" x 25" x 6.75"	3-RCC21R	220	E8.24 / 11
FATC 128	3910	23.5" x 23.5" x 5.5"	-	40 (CABINET ONLY)	E8.24 / 9
BPS-B15	3910	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
BPS-B16	3910	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
BPS-B17	3910	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
BPS-B18	3910	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
BPS-B19	3910	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
BPS-B20	3910	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
BPS-B21	3910	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
LEVEL 4					
NODE-06	4910	47.75" x 25" x 6.75"	3-RCC21R	220	E8.24 / 11
FATC 128	4910	23.5" x 23.5" x 5.5"	-	40 (CABINET ONLY)	E8.24 / 9
BPS-B22	4910	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
BPS-B23	4910	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
BPS-B24	4910	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
BPS-B25	4910	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
BPS-B26	4910	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
BPS-B27	4910	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9

SMOKE DETECTION

SMOKE DETECTION IS REQUIRED IN PATIENT AND CLIENT SLEEPING ROOMS, FOR THE PURPOSES OF CAUSING VISUAL DISPLAY ON THE CORRIDOR SIDE OF THE ROOM AND AN AUDIBLE AND VISUAL ALARM AT THE NURSE'S STATION. SMOKE DETECTORS ARE ALSO REQUIRED FOR THE PURPOSES OF ELEVATOR RECALL AND ACTUATION OF AUTOMATIC CLOSING, FIRE SEPARATION DOORS INSTALLED IN SMOKE BARRIERS, ACROSS CORRIDORS AND LOCATIONS OUTLINED IN SECTION 715.4.7.3 OF 2007 CBC.

FOR CONTROL OF SPREAD OF SMOKE, SMOKE DAMPERS CAN BE CONTROLLED BY THE SMOKE DETECTION SYSTEM PROVIDED THAT A TOTAL COVERAGE SMOKE DETECTION SYSTEM IS INSTALLED WITHIN THE AREAS SERVED BY THE HEATING, VENTILATION AND AIR CONDITIONING SYSTEM. 2007 CBC 716.3.2.1, ITEM 5. THE DESIGN INTENT OF THIS PROJECT IS TO PROVIDE TOTAL COVERAGE SMOKE DETECTORS IN THE I-2 OCCUPANCY AREA THAT ARE SERVED DIRECTLY BY THE AIR-SUPPLY SYSTEM, PROVIDED THAT EXHAUST AIR DUCTS OPEN DIRECTLY TO THE EXTERIOR. THIS COVERAGE IS BEING PLACED SPECIFICALLY FOR SMOKE DAMPER AND ANY DELAYED EGRESS AREAS. IT IS OUR UNDERSTANDING THAT THE DEFINITION OF TOTAL COVERAGE DETECTION AS DEFINED BY NFPA 72 (2007 EDITION) IS NOT APPLICABLE WHEN DISCUSSING THE ITEMS LISTED ABOVE THAT REFERENCE TOTAL COVERAGE FOR AREAS SERVED BY THE HVAC SYSTEMS.

PATIENT ROOM SMOKE DETECTOR ANNUNCIATION

PATIENT ROOM SMOKE DETECTORS ARE EQUIPPED WITH A RELAY BASE TO INTERFACE WITH A RAULAND RESPONDER 5 NURSE CALL SYSTEM VIA THE DOME LIGHT. ANNUNCIATION AT THE DOME LIGHT AND AT THE NURSE STATION WILL BE HANDLED THROUGH THE RAULAND NURSE CALL SYSTEM. PLEASE SEE DETAIL J ON SHEET FA.4.14 FOR THE UL LISTING FOR THIS SYSTEM.

SEISMIC ANCHORAGE INFORMATION

EQUIPMENT	ROOM #	DIMENSIONS (in) H x W x D	CABINET	OPERATING WEIGHT (LBS)	STRUCTURAL DETAIL / DRAWING NUMBER
LEVEL 5					
NODE-07	5910	47.75" x 25" x 6.75"	3-RCC21R	220	E8.24 / 11
FATC 128	5910	23.5" x 23.5" x 5.5"	-	40 (CABINET ONLY)	E8.24 / 9
BPS-B28	5910	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
BPS-B29	5910	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
BPS-B30	5910	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
BPS-B31	5910	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
BPS-B32	5910	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
BPS-B33	5910	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
LEVEL 6					
NODE-08	6910	47.75" x 25" x 6.75"	3-RCC21R	220	E8.24 / 11
FATC 128	6910	23.5" x 23.5" x 5.5"	-	40 (CABINET ONLY)	E8.24 / 9
BPS-B34	6910	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
BPS-B35	6910	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
BPS-B36	6910	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
BPS-B37	6910	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
BPS-B38	6910	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
LEVEL 7					
NODE-09	7910	47.75" x 25" x 6.75"	3-RCC21R	220	E8.24 / 11
FATC 128	7910	23.5" x 23.5" x 5.5"	-	40 (CABINET ONLY)	E8.24 / 9
BPS-B39	7910	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
BPS-B40	7910	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
BPS-B41	7910	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
LEVEL 8					
FATC 128	8910	23.5" x 23.5" x 5.5"	-	40 (CABINET ONLY)	E8.24 / 9
BPS-B42	8910	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
BPS-B43	8910	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
BPS-B44	8910	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
LEVEL 9					
NODE-10	9910	47.75" x 25" x 6.75"	3-RCC21R	220	E8.24 / 11
FATC 128	9910	23.5" x 23.5" x 5.5"	-	40 (CABINET ONLY)	E8.24 / 9
BPS-B45	9910	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
BPS-B46	9910	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
BPS-B47	9910	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
LEVEL 10					
FATC 128	10910	23.5" x 23.5" x 5.5"	-	40 (CABINET ONLY)	E8.24 / 9
BPS-B48	10910	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
BPS-B49	10910	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
BPS-B50	10910	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
LEVEL 11					
FATC 128	11910	23.5" x 23.5" x 5.5"	-	40 (CABINET ONLY)	E8.24 / 9
BPS-B51	11910	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
BPS-B52	11910	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
LEVEL 12					
NODE-11	12308	47.75" x 25" x 6.75"	3-RCC21R	220	E8.24 / 11
FATC 128	12311	23.5" x 23.5" x 5.5"	-	40 (CABINET ONLY)	E8.24 / 9
BPS-B53	12311	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
BPS-B54	12311	17" x 13" x 3.375"	BPS6A	33	E8.24 / 9
UIO RCC CABINET	12311	47.75" x 25" x 6.75"	3-RCC21R	120	E8.24 / 11

SHEET SCHEDULE

SHEET NO.	TITLE	SHEET NO.	TITLE
FA.0.01	FIRE ALARM COVER SHEET	FA.08.2	LEVEL 8 AREAS C, D, E & F - ZONE 2
FA.0.01A	FIRE ALARM SEQUENCE OF OPERATION MATRIX A	FA.09.0	LEVEL 9 OVERALL PLAN
FA.0.01B	FIRE ALARM SEQUENCE OF OPERATION MATRIX B	FA.09.1	LEVEL 9 AREAS A, B, G & H - ZONE 1
FA.0.01C	FIRE ALARM SEQUENCE OF OPERATION MATRIX C	FA.09.2	LEVEL 9 AREAS C, D, E & F - ZONE 2
FA.0.01D	FIRE ALARM SEQUENCE OF OPERATION MATRIX D	FA.10.0	LEVEL 10 OVERALL PLAN
FA.0.01E	FIRE ALARM SEQUENCE OF OPERATION MATRIX E	FA.10.1	LEVEL 10 AREAS A, B, G & H - ZONE 1
FA.0.01F	FIRE ALARM SEQUENCE OF OPERATION MATRIX F	FA.10.2	LEVEL 10 AREAS C, D, E & F - ZONE 2
FA.0.01G	FIRE ALARM VOICE AND PAGING ZONE MATRIX	FA.11.0	LEVEL 11 OVERALL PLAN
FA.0.01H	FIRE ALARM ELEVATOR CONTROL FUNCTION - ELEV. GROUP 1,2,6,7,8	FA.11.1	LEVEL 11 AREAS A, B, G & H - ZONE 1
FA.0.01I	FIRE ALARM ELEVATOR CONTROL FUNCTION - ELEV. GROUP 3,4,5,9,10	FA.11.2	LEVEL 11 AREAS C, D, E & F - ZONE 2
FA.0.02	FIRE ALARM PLAN LEGENDS	FA.12.0	LEVEL 12 OVERALL PLAN
FA.0.03	FIRE ALARM PLAN DOOR SCHEDULE	FA.12.1	LEVEL 12 AREAS A, B, G & H - ZONE 1
FA.0.04	FIRE ALARM PLAN MECHANICAL OPERATIONAL MATRIX	FA.12.2	LEVEL 12 AREAS C, D, E & F - ZONE 2
FA.0.04A	FIRE ALARM PLAN MECHANICAL KITCHEN HOOD & FCU MATRIX	FA.13.0	LEVEL 13 OVERALL PLAN
FA.0.04B	FIRE ALARM PLAN MECHANICAL GARAGE VENTILATION CONTROL DIAGRAM	FA.13.1	LEVEL 13 AREAS A, B, G & H - ZONE 1
FA.0.05	FIRE ALARM MECHANICAL FSD SCHEDULE	FA.13.2	LEVEL 13 AREAS C, D, E & F - ZONE 2
FA.0.06	FIRE ALARM MECHANICAL FSD SCHEDULE CONTINUED and FAN MATRIX	FA.2.01	SYSTEM RISER DIAGRAM
FA.0.07	FIRE ALARM AND BMS CLARIFICATION AND COORDINATION A	FA.2.02	STAIR & ELEVATOR RISER DIAGRAM
FA.0.08	FIRE ALARM AND BMS CLARIFICATION AND COORDINATION B	FA.2.03	NETWORK DATA, AUDIO DATA AND 24VDC POWER SCHEMATICS
FA.P3.0	LEVEL P3 OVERALL PLAN	FA.2.04	NOTIFICATION AND INITIATING DEVICE RISER DIAGRAM - LEVELS P3 - P2
FA.P3.1	LEVEL P3 AREAS A, B, G & H - ZONE 1	FA.2.05	NOTIFICATION AND INITIATING DEVICE RISER DIAGRAM - LEVEL 1
FA.P3.2	LEVEL P3 AREAS C, D, E & F - ZONE 2	FA.2.06	NOTIFICATION AND INITIATING DEVICE RISER DIAGRAM - LEVEL 2
FA.P3.3	LEVEL P3 AREAS K & J - ZONE 3	FA.2.07A	NOTIFICATION DEVICE RISER DIAGRAM - LEVEL 3
FA.P3.4	LEVEL P3 AREAS M & L - ZONE 4	FA.2.07B	INITIATING DEVICE RISER DIAGRAM - LEVEL 3
FA.P2.0	LEVEL P2 OVERALL PLAN	FA.2.08A	NOTIFICATION AND INITIATING DEVICE RISER DIAGRAM - LEVEL 4
FA.P2.1	LEVEL P2 AREAS A, B, G & H - ZONE 1	FA.2.08B	INITIATING DEVICE RISER DIAGRAM - LEVEL 4
FA.P2.2	LEVEL P2 AREAS C, D, E & F - ZONE 2	FA.2.09A	NOTIFICATION DEVICE RISER DIAGRAM - LEVEL 5
FA.P2.3	LEVEL P2 AREAS K & J - ZONE 3	FA.2.09B	INITIATING DEVICE RISER DIAGRAM - LEVEL 5
FA.P2.4	LEVEL P2 AREAS M & L - ZONE 4	FA.2.10A	NOTIFICATION DEVICE RISER DIAGRAM - LEVEL 6
FA.01.0	LEVEL 1 / P1 OVERALL PLAN	FA.2.10B	INITIATING DEVICE RISER DIAGRAM - LEVEL 6
FA.01.1	LEVEL 1 / P1 AREAS A, B, G & H - ZONE 1	FA.2.11	NOTIFICATION AND INITIATING DEVICE RISER DIAGRAM - LEVEL 7
FA.01.2	LEVEL 1 / P1 AREAS C, D, E & F - ZONE 2	FA.2.12	NOTIFICATION AND INITIATING DEVICE RISER DIAGRAM - LEVEL 8
FA.01.3	LEVEL 1 / P1 AREAS K & J - ZONE 3	FA.2.13	NOTIFICATION AND INITIATING DEVICE RISER DIAGRAM - LEVEL 9
FA.01.4	LEVEL 1 / P1 AREAS M & L - ZONE 4	FA.2.14	NOTIFICATION AND INITIATING DEVICE RISER DIAGRAM - LEVEL 10
FA.02.0	LEVEL 2 OVERALL PLAN	FA.2.15	NOTIFICATION AND INITIATING DEVICE RISER DIAGRAM - LEVEL 11
FA.02.1	LEVEL 2 AREAS A, B, G & H - ZONE 1	FA.2.16	NOTIFICATION AND INITIATING DEVICE RISER DIAGRAM - LEVELS 12 - 13
FA.02.2	LEVEL 2 AREAS C, D, E & F - ZONE 2	FA.3.01	FIRE ALARM CONTROL ROOM ELEVATIONS
FA.02.3	LEVEL 2 AREAS K & J - ZONE 3	FA.4.01	NODE HARDWARE LAYERS
FA.02.4	LEVEL 2 AREAS M & L - ZONE 4	FA.4.02	FACP 01 - NODE 03 LRM LAYERS
FA.03.0	LEVEL 3 OVERALL PLAN	FA.4.03	NODE 04 - NODE 06 LRM LAYERS
FA.03.1	LEVEL 3 AREAS A, B, G & H - ZONE 1	FA.4.03A	FATC 1 - FATC 4 WIRING DETAIL
FA.03.2	LEVEL 3 AREAS C, D, E & F - ZONE 2	FA.4.04	NODE 07 - NODE 09 LRM LAYERS
FA.03.3	LEVEL 3 AREAS K & J - ZONE 3	FA.4.04A	FATC 5 - FATC 8 WIRING DETAIL
FA.03.4	LEVEL 3 AREAS M & L - ZONE 4	FA.4.05	NODE 10 - NODE 11 LRM LAYERS
FA.04.0	LEVEL 4 OVERALL PLAN (FOR REFERENCE ONLY)	FA.4.05A	FATC 9 - FATC 11 WIRING DETAIL
FA.04.1	LEVEL 4 AREAS A, B, G & H - ZONE 1	FA.4.05B	FATC 12 - FATC 13 WIRING DETAIL
FA.04.2	LEVEL 4 AREAS C, D, E & F - ZONE 2	FA.4.06	NODE USER LAYERS
FA.04.3	LEVEL 4 AREAS K & J - ZONE 3	FA.4.07	REMOTE ANNUNCIATOR DETAILS
FA.04.4	LEVEL 4 AREAS M & L - ZONE4	FA.4.08	GRAPHIC FAN CONTROL PANEL DETAILS
FA.05.0	LEVEL 5 OVERALL PLAN	FA.4.09	GRAPHIC ANNUNCIATOR FRONT
FA.05.1	LEVEL 5 AREAS A, B, G & H - ZONE 1	FA.4.10	SIGA-UIO DETAILS
FA.05.2	LEVEL 5 AREAS C, D, E & F - ZONE 2	FA.4.10A	SIGA-UIO DETAILS CONTINUED
FA.05.3	LEVEL 5 AREAS K & J - ZONE 3	FA.4.11	SIGA-UIO DETAILS CONTINUED
FA.05.4	LEVEL 5 AREAS M & L - ZONE 4	FA.4.11A	SIGA-UIO DETAILS CONTINUED
FA.06.0	LEVEL 6 OVERALL PLAN	FA.4.12	NOTIFICATION APPLIANCE DETAILS
FA.06.1	LEVEL 6 AREAS A, B, G & H - ZONE 1	FA.4.13	DEVICE DETAILS
FA.06.2	LEVEL 6 AREAS C, D, E & F - ZONE 2	FA.4.14	DEVICE DETAILS CONTINUED
FA.06.3	LEVEL 6 AREAS K - ZONE 3	FA.5.01	FACP & NODE BATTERY AND SPEAKER CIRCUIT CALCULATIONS
FA.06.4	LEVEL 6 AREAS M & L - ZONE 4	FA.5.02	BPS6A BATTERY CALCULATIONS
FA.07.0	LEVEL 7 OVERALL PLAN	FA.5.03	BPS6A BATTERY CALCULATIONS CONTINUED
FA.07.1	LEVEL 7 AREAS A, B, G & H - ZONE 1	FA.5.04	BPS6A BATTERY CALCULATIONS CONTINUED
FA.07.2	LEVEL 7 AREAS C, D, E & F - ZONE 2	FA.5.05	VOLTAGE DROP CALCULATIONS
FA.08.0	LEVEL 8 OVERALL PLAN	FA.5.06	VOLTAGE DROP CALCULATIONS CONTINUED
FA.08.1	LEVEL 8 AREAS A, B, G & H - ZONE 1	FA.6.01	PRODUCT DATA SUBMITTALS & CSFM LISTINGS SHEETS

ALL CHANGES TO THE INFORMATION IN THIS DOCUMENT MUST BE APPROVED BY RFI OR ACD AND BY THE SYSTEM DESIGNER (CONVERGINT TECHNOLOGIES) PRIOR TO MAKING CHANGES IN THE FIELD.

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Owner
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C10 License No: 986407

SKA Project Number
2219

HCAI Number
S221127-38-00

HCAI seal/signature
REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF 7.01 CCR
APPROVED
Department of Health Care Access and Information
FACILITIES DEVELOPMENT DIVISION
9/27/2022, 7:48:28 AM
S221127-38-00
Pedar Remme

Seal/Signature
LICENSED ARCHITECT STATE OF CALIFORNIA
REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA
Date Signed: 7.13.2022

Issued for
HCAI PLAN REVIEW

Drawn by KWS
Checked by JS

Project Name
4TH FLOOR ACU AUTOMATIC DOOR OPERATORS

Sheet Title
FIRE ALARM PLAN COVER SHEET

Date 07/06/2022
Scale NONE
Sheet Number
FA.0.01

30 X 42

3/28/2018-Fred Michel

convergint

VNGC Expanded Matrix

			Fire Command Center Control Unit Annunciation				Remote Annunciation				Notification					Nurse Call	Elev	Door Control						FSD Control (For Fan Control see Fan control Matrix)																																					
			Activate Common Alarm Signal Indicators at FCC Panel	Activate Common Trouble Signal Indicators at FCC Panel	Activate Common Supervisory Signal Indicators at FCC Panel	Activate Common Monitor Signal Indicators at FCC Panel	Display on Graphic Annunciator (GFAA) (Node 13)	Display on Fan Control Panel (GFCP) (Node 12)	Display at plant operations (FAA) (Node 15)L12	Display at PBX L P1/1 (Node 14)	Alarm Sent to Central station	Trouble Sent to Central station	Supervisory Sent to Central station	Audibles and Visual Notifications	Display Condition at Printer	Activate signal to Nurse call	Activate Elevator Function	Unlock Stairway doors	Unlock interior doors/ Deactivate Auto Door Controllers on Floor of Alarm (Doors listed on PA 0.03)	Release Door Holders on Floor of Alarm	Drop smoke guard doors at elevators	Drop accordion doors	Close FSDs Level P3 (except 10 in fuel tank rooms)	Close FSDs and stop fan in P3 Fuel Storage Rooms	Close FSDs Level P2	Close FSDs Level P1/1 (except those in the Special Kitchen Sequence)	Close FSDs in the P1/1 Special Kitchen Sequence	Close FSDs and stop fans in SC FC-1/2	Close FSDs Level 02 S.C. 1.1 (except those in the Special Kitchen Sequence)	Close FSDs in the 02 Special Kitchen Sequence	Close FSDs Level 02 S.C. 1.2	Close FSDs Level 02 S.C. 2.1	Close FSDs Level 02 S.C. 2.2	Close FSDs Level 03 S.C. 1.1	Close FSDs Level 03 S.C. 1.2	Close FSDs Level 03 S.C. 2.1	Close FSDs and stop fans in SC GSF-7	Close FSDs Level 03 S.C. 2.2	Close FSDs Level 04 S.C. 1.1	Close FSDs Level 04 S.C. 1.2	Close FSDs Level 04 S.C. 1.3	Close FSDs Level 04 S.C. 1.4	Close FSDs Level 04 S.C. 2.1	Close FSDs Level 04 S.C. 2.2	Close FSDs Level 04 S.C. 2.3	Close FSDs Level 05 S.C. 1.1	Close FSDs Level 05 S.C. 1.2	Close FSDs Level 05 S.C. 2.1	Close FSDs Level 05 S.C. 2.2	Close FSDs Level 06 S.C. 1.1	Close FSDs Level 06 S.C. 2.1	Close FSDs Level 07 S.C. 1.1	Close FSDs Level 07 S.C. 2.1	Close FSDs Level 08 S.C. 1.1	Close FSDs Level 08 S.C. 2.1	Close FSDs Level 09S.C. 1.1	Close FSDs Level 09 S.C. 2.1	Close FSDs Level 10 S.C. 1.1	Close FSDs Level 10 S.C. 2.1	Close FSDs Level 11 S.C. 1.1	Close FSDs Level 11 S.C. 2.1	Close FSDs Level 12
		SYSTEM ALARMS																																																												
A	P3	Water Flow	X				X		X	X	X				X				X	X			X																																						
A	P3	Smoke detector/Pull Station/Heat Detector	X				X		X	X	X				X				X	X			X																																						
A	P3	Heat detector in Fuel Storage Rooms	X				X		X	X	X				X				X	X				X																																						
A	P2	Water Flow	X				X		X	X	X				X				X	X					X																																					
A	P2	Smoke detector/Pull Station/Heat Detector	X				X		X	X	X				X				X	X					X																																					
A	P1/1	Water Flow	X				X		X	X	X				X				X	X						X																																				
A	P1/1	Smoke detector/Pull Station/Heat Detector (not in Special Kitchen Sequence)	X				X		X	X	X				X				X	X						X																																			
A	P1/1	Ansel Hood Activation	X				X		X	X	X				X				X	X						X																																				
A	P1/1	Clean Agent/ Pre-action System Alarm	X				X		X	X	X				X				X	X						X																																				
A	P1/1	Smoke Detector in SC FC-1/2	X				X		X	X	X				X				X	X								X																																	
A	2	Water Flow	X				X		X	X	X				X				X	X									X		X	X	X																													
A	2	Smoke detector/Pull Station/Heat Detector in Smoke Compartment 1.1 (not in Special Kitchen Sequence)	X				X		X	X	X				X				X	X									X																																
A	2	Smoke detector/Pull Station/Heat Detector in Smoke Compartment 1.2	X				X		X	X	X				X				X	X											X																														
A	2	Smoke detector/Pull Station/Heat Detector in Smoke Compartment 2.1	X				X		X	X	X				X				X	X												X																													
A	2	Smoke detector/Pull Station/Heat Detector in Smoke Compartment 2.2	X				X		X	X	X				X				X	X													X																												
A	2	Ansel Hood Activation	X				X		X	X	X				X				X	X									X																																
A	3	Water Flow	X				X		X	X	X				X				X	X														X	X	X		X																							
A	3	Smoke Decector in SC GSF-7	X				X		X	X	X				X				X	X																	X																							
A	3	Smoke detector/Pull Station/Heat Detector in Smoke Compartment 1.1	X				X		X	X	X				X				X	X														X																										
A	3	Smoke detector/Pull Station/Heat Detector in Smoke Compartment 1.2	X				X		X	X	X				X				X	X															X																									
A	3	Smoke detector/Pull Station/Heat Detector in Smoke Compartment 2.1	X				X		X	X	X				X				X	X																X																							
A	3	Smoke detector/Pull Station/Heat Detector in Smoke Compartment 2.2	X				X		X	X	X				X				X	X																	X																						
A	4	Water Flow	X				X		X	X	X				X				X	X																		X	X	X	X	X	X																	
A	4	Smoke detector/Pull/Heat Detector Station in Smoke Compartment 1.1	X				X		X	X	X				X				X	X																		X																						
A	4	Smoke detector/Pull/Heat Detector Station in Smoke Compartment 1.2	X				X		X	X	X				X				X	X																			X																				
A	4	Smoke detector/Pull Station/Heat Detector in Smoke Compartment 1.3	X				X		X	X	X				X				X	X																				X																			
A	4	Smoke detector/Pull Station/Heat Detector in Smoke Compartment 1.4	X				X		X	X	X				X				X	X																					X																		
A	4	Smoke detector in Smoke Compartment 1.4 (patient room)	X				X		X	X	X				X	X			X	X																					X																		
A	4	Smoke detector/Pull Station/Heat Detector in Smoke Compartment 2.1	X				X		X	X	X				X				X	X																						X																	
A	4	Smoke detector in Smoke Compartment 2.1 (patient room)	X				X		X	X	X				X	X			X	X																						X																	
A	4	Smoke detector/Pull Station/Heat Detector in Smoke Compartment 2.2	X				X		X	X	X				X				X	X																							X																
A	4	Smoke detector in Smoke Compartment 2.2 (patient room)	X				X		X	X	X				X	X			X	X																							X																
A	4	Smoke detector/Pull Station/Heat Detector in Smoke Compartment 2.3	X				X		X	X	X				X				X	X																								X															
A	5	Water Flow	X				X		X	X	X				X				X	X																									X	X	X	X											
A	5	Smoke detector/Pull Station/Heat Detector in Smoke Compartment 1.1	X				X		X	X	X				X				X	X																									X														
A	5	Smoke detector in Smoke Compartment 1.1 (patient room)	X				X		X	X	X				X	X			X	X																									X														
A	5	Smoke detector/Pull Station/Heat Detector in Smoke Compartment 1.2	X				X		X	X	X				X				X	X																										X													
A	5	Smoke detector in Smoke Compartment 1.2 (patient room)	X				X		X	X	X				X	X			X	X																										X													
A	5	Smoke detector/Pull Station/Heat Detector in Smoke Compartment 2.1	X				X		X	X	X				X				X	X																											X												
A	5	Smoke detector in Smoke Compartment 2.1 (patient room)	X				X		X	X	X				X	X			X	X																											X												
A	5	Smoke detector/Pull Station/Heat Detector in Smoke Compartment 2.2	X				X		X	X	X				X				X	X																												X											
A	5	Smoke detector in Smoke Compartment 2.2 (patient room)	X				X		X	X	X				X	X			X	X																												X											
A	6	Water Flow	X				X		X	X	X				X				X	X																													X	X										
A	6	Smoke detector/Pull Station/Heat Detector in Smoke Compartment 1.1	X				X		X	X	X				X				X	X																													X										
A	6	Smoke detector in Smoke Compartment 1.1 (patient room)	X				X		X	X	X				X	X			X	X																													X										
A	6	Smoke detector/Pull Station/Heat Detector in Smoke Compartment 2.1	X				X		X	X	X				X				X	X																														X									
A	6	Smoke detector in Smoke Compartment 2.1 (patient room)	X				X		X	X	X				X	X			X	X																														X									
A	7	Water Flow	X				X		X	X	X				X				X	X																															X	X								
A	7	Smoke detector/Pull Station/Heat Detector in Smoke Compartment 1.1	X				X		X	X	X				X				X	X																															X								
A	7	Smoke detector in Smoke Compartment 1.1 (patient room)	X				X		X	X	X				X	X			X	X																															X								
A	7	Smoke detector/Pull Station/Heat Detector in Smoke Compartment 2.1	X				X		X	X	X				X				X	X																																X							
A	7	Smoke detector in Smoke Compartment 2.1 (patient room)	X				X		X	X	X				X	X			X	X																																X							
A	8	Water Flow	X				X		X	X	X				X				X	X																																	X	X						
A	8	Smoke detector/Pull Station/Heat Detector in Smoke Compartment 1.1	X				X		X	X	X				X				X	X																																X						
A	8	Smoke detector in Smoke Compartment 1.1 (patient room)	X				X		X	X	X				X	X			X	X																																X						
A	8	Smoke detector/Pull Station/Heat Detector in Smoke Compartment 2.1	X				X		X	X	X				X				X	X																																	X					
A	8	Smoke detector in Smoke Compartment 2.1 (patient room)	X				X		X	X	X				X	X			X	X																																	X					
A	9	Water Flow	X				X		X	X	X				X				X	X																																		X	X			
A	9	Smoke detector/Pull Station/Heat Detector in Smoke Compartment 1.1	X				X		X	X	X				X				X	X																																		X			
A	9	Smoke detector in Smoke Compartment 1.1 (patient room)	X				X		X	X	X				X	X			X	X																																		X			
A	9	Smoke detector/Pull Station/Heat Detector in Smoke Compartment 2.1	X				X		X	X	X				X				X	X																																		X			
A	9	Smoke detector in Smoke Compartment 2.1 (patient room)	X				X		X	X	X				X	X			X	X																																		X			
A	10	Water Flow	X				X		X	X	X				X				X	X																																			X	X		
A	10	Smoke detector/Pull Station/Heat Detector in Smoke Compartment 1.1	X				X		X	X	X				X				X	X																																			X		
A	10	Smoke detector in Smoke Compartment 1.1 (patient room)	X				X		X	X	X				X	X			X	X																																			X		
A	10	Smoke detector/Pull Station/Heat Detector in Smoke Compartment 2.1	X				X		X	X	X				X				X	X																																				X	
A	10	Smoke detector in Smoke Compartment 2.1 (patient room)	X				X		X	X	X				X	X			X	X																																				X	

For Notification Appliance Response Reference the Audio Matrix

FOR REFERENCE ONLY

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STATE OF CALIFORNIA

Issued for
HCAI PLAN REVIEW

Drawn by KWS
Checked by JS

Project Name
4TH FLOOR ACU AUTOMATIC DOOR OPERATORS

Sheet Title
FIRE ALARM PLAN SEQUENCE OF OPERATION MATRIX A

Date 07/06/2022
Scale NONE
Sheet Number
FA.0.01A

30 X 42

3/28/2018-Fred Michel

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VNGC Expanded Matrix

| | | | Close FSDs and stop fans in SC FC-4/5 | Close FSDs and stop fans in SC FC-6 | Close FSDs and stop fans in SC FC-7/8 | Start VF-S-1B | Start VF-E-1 | Start VF-S-1A | Start VF-S-2B | Start VF-E-2 | Start VF-S-2A | Start VF-S-3B | Start VF-E-3 | Start VF-S-3A | Shutdown VF-S-1B | Shutdown VF-E-1 | Shutdown VF-S-1A | Shutdown VF-S-2B | Shutdown VF-E-2 | Shutdown VF-S-2A | Shutdown VF-S-3B | Shutdown VF-E-3 | Shutdown VF-S-3A | Open FSDs on P3 | Open FSDs on P2 | Open FSDs on P1/1 | Open FSDs on 02 | Open FSDs on 03 | Open FSDs on 04 | Open FSDs on 05 | Open FSDs on 06 | Open FSDs on 07 | Open FSDs on 08 | Open FSDs on 09 | Open FSDs on 10 | Open FSDs on 11 | Open FSDs on 12 | Remove Stop command for AHU-1 | Remove Stop command for AHU-2 | Remove Stop command for AHU-3 | Remove Stop command for AHU-4 | Remove Stop command for AHU-5 | Remove Stop command for AHU-6 | Remove Stop command for AHU-7 | Remove Stop command for AHU-8 | Remove Stop command for AHU-9 | Remove Stop command for AHU-10 | Remove Stop command for AHU-11 | Remove Stop command for AHU-12 | Remove Stop command for AHU-13 | Shunt Gas at Kitchen Hood floor 1 | Shunt Electrical at Kitchen Hood floor 1 | Shut down KEF-1 | Shunt Gas at Kitchen Hood floor 2 | Shunt Electrical at Kitchen Hood floor 2 | Shut down KEF-2 | A/V System and lighting Shutdown on floors with NAC activation | Audio Page to selected Floors | BMS Points Activated |
|---|---|---

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VNGC Expanded Matrix

			Fire Command Center Control Unit Annunciation				Remote Annunciation				Notification					Nurse Call	Elev		Door Control			
			Activate Common Alarm Signal Indicators at FCC Panel	Activate Common Trouble Signal Indicators at FCC Panel	Activate Common Supervisory Signal Indicators at FCC Panel	Activate Common Monitor Signal Indicators at FCC Panel	Display on Graphic Annunciator (GFAA) (Node 13)	Display on Fan Control Panel (GFCP) (Node 12)	Display at plant operations (FAA) (Node 15)L12	Display at PBX L P1/1 (Node 14)	Alarm Sent to Central station	Trouble Sent to Central station	Supervisory Sent to Central station	Audibles and Visual Notifications	Display Condition at Printer	Activate signal to Nurse call	Activate Elevator Function	Unlock Stairway doors	Unlock interior doors/ Deactivate Auto Door Controllers on Floor of Alarm (Doors listed on FA Q 03)	Release Door Holders on Floor of Alarm	Drop smoke guard doors at elevators	Drop accordion doors
A	11	Water Flow	X				X		X	X	X				X				X	X		
A	11	Smoke detector/Pull Station/Heat Detector in Smoke Compartment 1.1	X				X		X	X	X				X				X	X		
A	11	Smoke detector in Smoke Compartment 1.1 (patient room)	X				X		X	X	X				X	X			X	X		
A	11	Smoke detector/Pull Station/Heat Detector in Smoke Compartment 2.1	X				X		X	X	X				X				X	X		
A	11	Smoke detector in Smoke Compartment 2.1 (patient room)	X				X		X	X	X				X	X			X	X		
A	12	Water Flow	X				X		X	X	X				X				X	X		
A	12	Refriderant leak alarm (900ppm)	X				X		X	X	X				X				X	X		
A	12	Smoke detector/Pull Station/Heat Detector	X				X		X	X	X				X				X	X		
A	12	Duct Detector in SC FC-7/8	X				X		X	X	X				X				X	X		
A	12	Smoke Detector in SC FC-6	X				X		X	X	X				X				X	X		
A	13	Smoke detector/Pull Station/Heat Detector	X				X		X	X	X				X				X	X		
		Smoke Detector in any Smoke Compartment ***at*** stairway vestibule																				
																			X	X		
A		Duct Detector on VF-S-1B	X					X	X	X	X				X				X	X		
A		Duct Detector on VF-S-1A	X					X	X	X	X				X				X	X		
A		Duct Detector on VF-S-2B	X					X	X	X	X				X				X	X		
A		Duct Detector on VF-S-2A	X					X	X	X	X				X				X	X		
A		Duct Detector on VF-S-3B	X					X	X	X	X				X				X	X		
A		Duct Detector on VF-S-3A	X					X	X	X	X				X				X	X		
A		Duct Detector on Supply of AHU-1	X				X		X	X	X				X				X	X		
A		Duct Detector on Supply of AHU-2	X				X		X	X	X				X				X	X		
A		Duct Detector on Supply of AHU-3	X				X		X	X	X				X				X	X		
A		Duct Detector on Supply of AHU-4	X				X		X	X	X				X				X	X		
A		Duct Detector on Supply of AHU-5	X				X		X	X	X				X				X	X		
A		Duct Detector on Supply of AHU-6	X				X		X	X	X				X				X	X		
A		Duct Detector on Supply of AHU-7	X				X		X	X	X				X				X	X		
A		Duct Detector on Supply of AHU-8	X				X		X	X	X				X				X	X		
A		Duct Detector on Supply of AHU-9	X				X		X	X	X				X				X	X		
A		Duct Detector on Supply of AHU-10	X				X		X	X	X				X				X	X		
A		Duct Detector on Supply of AHU-11	X				X		X	X	X				X				X	X		
A		Duct Detector on Supply of AHU-12	X				X		X	X	X				X				X	X		
A		Duct Detector on Supply of AHU-13	X				X		X	X	X				X				X	X		
T		**SYSTEM TROUBLES**																				
T		Fire Alarm General Trouble (AC fail, battery trouble , open circuit, ground fault, short circuit)		X					X	X		X			X							
		SYSTEM SUPERVISORYS																				
S		Trouble from other connected systems (Clean Agent/ Pre-action, Refrigerant Leak, Generators, Fire Pump, ERRCS, FASE panel, Area of rescue Panel, Accordion Door, ...)			X				X	X			X		X							
S		Valve Tamper Switch			X				X	X			X		X							
S		Main Water flow Switch			X				X	X			X		X							
S		Water Tank High Level			X		X		X	X			X		X							
S		Water Tank Low Level			X		X		X	X			X		X							
S		Fire Pump #1 Running			X		X		X	X			X		X							
S		Fire Pump #1 Trouble			X		X		X	X			X		X							
S		Fire Pump #1 Loss of Phase			X		X		X	X			X		X							
S		Fire Pump #2 Running			X		X		X	X			X		X							
S		Fire Pump #2 Trouble			X		X		X	X			X		X							
S		Fire Pump #2 Loss of Phase			X		X		X	X			X		X							
S		Emergency Generator #1 Running			X		X		X	X			X		X							
S		Emergency Generator #1 Low Fuel			X		X		X	X			X		X							
S		Emergency Generator #1 Leak Detection			X		X		X	X			X		X							
S		Emergency Generator #2 Running			X		X		X	X			X		X							
S		Emergency Generator #2 Low Fuel			X		X		X	X			X		X							
S		Emergency Generator #2 Leak Detection			X		X		X	X			X		X							
S		Emergency Generator #3 Running			X		X		X	X			X		X							
S		Emergency Generator #3 Low Fuel			X		X		X	X			X		X							
S		Emergency Generator #3 Leak Detection			X		X		X	X			X		X							
S		Fuel Oil Panel leak Detected			X				X	X			X		X							
S		Duct Detector on Return of AHU-1			X		X		X	X			X		X				X	X		
S		Duct Detector on Return of AHU-2			X		X		X	X			X		X				X	X		
S		Duct Detector on Return of AHU-3			X		X		X	X			X		X				X	X		
S		Duct Detector on Return of AHU-4			X		X		X	X			X		X				X	X		
S		Duct Detector on Return of AHU-5			X		X		X	X			X		X				X	X		
S		Duct Detector on Return of AHU-6			X		X		X	X			X		X				X	X		
S		Duct Detector on Return of AHU-7			X		X		X	X			X		X				X	X		
S		Duct Detector on Return of AHU-8			X		X		X	X			X		X				X	X		
S		Duct Detector on Return of AHU-9			X		X		X	X			X		X				X	X		
S		Duct Detector on Return of AHU-10			X		X		X	X			X		X				X	X		
S		Duct Detector on Return of AHU-11			X		X		X	X			X		X				X	X		
S		Duct Detector on Return of AHU-12			X		X		X	X			X		X				X	X		
S		Duct Detector on Return of AHU-13			X		X		X	X			X		X				X	X		
S		Duct Detector/Smoke Detector in SC FC-1/2			X		X		X	X			X		X				X	X		
S		Duct Detector in SC FC-4/5			X		X		X	X			X		X				X	X		
S		Duct Detector in SC FC-6			X		X		X	X			X		X				X	X		
S		Duct Detector in SC FC-7/8			X		X		X	X			X		X				X	X		

For Elevator Response Reference the Elevator Control Matrix

Smoke guard doors are trigerd by the elevator smoke detector at the door

Accordion doors are closed when a smoke detector on either side of the door is activated.

| | | | FSD Control (For Fan Control see Fan control Matrix) | | | | | | | | | | | | | | | | | | |

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			Close FSDs and stop fans in SC FC-4/5	Close FSDs and stop fans in SC FC-6	Close FSDs and stop fans in SC FC-7/8	Start VF-S-1B	Start VF-E-1	Start VF-S-1A	Start VF-S-2B	Start VF-E-2	Start VF-S-2A	Start VF-S-3B	Start VF-E-3	Start VF-S-3A	Shutdown VF-S-1B	Shutdown VF-E-1	Shutdown VF-S-1A	Shutdown VF-S-2B	Shutdown VF-E-2	Shutdown VF-S-2A	Shutdown VF-S-3B	Shutdown VF-E-3	Shutdown VF-S-3A	Open FSDs on P3	Open FSDs on P2	Open FSDs on P1/1	Open FSDs on 02	Open FSDs on 03	Open FSDs on 04	Open FSDs on 05	Open FSDs on 06	Open FSDs on 07	Open FSDs on 08	Open FSDs on 09	Open FSDs on 10	Open FSDs on 11	Open FSDs on 12	Remove Stop command for AHU-1	Remove Stop command for AHU-2	Remove Stop command for AHU-3	Remove Stop command for AHU-4	Remove Stop command for AHU-5	Remove Stop command for AHU-6	Remove Stop command for AHU-7	Remove Stop command for AHU-8	Remove Stop command for AHU-9	Remove Stop command for AHU-10	Remove Stop command for AHU-11	Remove Stop command for AHU-12	Remove Stop command for AHU-13	Shunt Gas at Kitchen Hood floor 1	Shunt Electrical at Kitchen Hood floor 1	Shut down KEF-1	Shunt Gas at Kitchen Hood floor 2	Shunt Electrical at Kitchen Hood floor 2	Shut down KEF-2	A/V System and lighting Shutdown on floors with NAC activation	Audio Page to selected Floors	BMS Points Activated
						Stair Pressurization Fans																		Purge Mode																												Kitchen Ansel							
		Smoke detector in Smoke Compartment 2.1 (patient room)																																																								X	X	X
A	11	Water Flow				X	X	X	X	X	X	X	X	X																																												X	X	X
A	11	Smoke detector/Pull Station/Heat Detector in Smoke Compartment 1.1																																																								X	X	X
A	11	Smoke detector in Smoke Compartment 1.1 (patient room)																																																								X	X	X
A	11	Smoke detector/Pull Station/Heat Detector in Smoke Compartment 2.1																																																								X	X	X
A	11	Smoke detector in Smoke Compartment 2.1 (patient room)																																																								X	X	X
A	12	Water Flow				X	X	X	X	X	X	X	X	X																																												X	X	X
A	12	Refriderant leak alarm (900ppm)																																																								X	X	X
A	12	Smoke detector/Pull Station/Heat Detector																																																								X	X	X
A	12	Duct Detector in SC FC-7/8			X																																																					X	X	X
A	12	Smoke Detector in SC FC-6		X																																																						X	X	X
A	13	Smoke detector/Pull Station/Heat Detector																																																								X	X	X
		Smoke Detector in any Smoke Compartment ***at*** stairway vestibule				X	X	X	X	X	X	X	X	X																																															
A		Duct Detector on VF-S-1B													X																																												X	X
A		Duct Detector on VF-S-1A															X																																										X	X
A		Duct Detector on VF-S-2B																X																																									X	X
A		Duct Detector on VF-S-2A																		X																																							X	X
A		Duct Detector on VF-S-3B																			X																																						X	X
A		Duct Detector on VF-S-3A																					X																																				X	X
A		Duct Detector on Supply of AHU-1																																																									X	X
A		Duct Detector on Supply of AHU-2																																																									X	X
A		Duct Detector on Supply of AHU-3																																																									X	X
A		Duct Detector on Supply of AHU-4																																																									X	X
A		Duct Detector on Supply of AHU-5																																																									X	X
A		Duct Detector on Supply of AHU-6																																																									X	X
A		Duct Detector on Supply of AHU-7																																																									X	X
A		Duct Detector on Supply of AHU-8																																																									X	X
A		Duct Detector on Supply of AHU-9																																																									X	X
A		Duct Detector on Supply of AHU-10																																																									X	X
A		Duct Detector on Supply of AHU-11																																																									X	X
A		Duct Detector on Supply of AHU-12																																																									X	X
A		Duct Detector on Supply of AHU-13																																																									X	X
T		**SYSTEM TROUBLES**																																																												
T		Fire Alarm General Trouble (AC fail, battery trouble , open circuit, ground fault, short circuit)																																																												
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S		Trouble from other connected systems (Clean Agent/ Pre-action, Refrigerant Leak, Generators, Fire Pump, E FASE panel, Area of rescue Panel, Accordion Door, …)																																																												
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S		Fire Pump #2 Trouble																																																												
S		Fire Pump #2 Loss of Phase																																																												
S		Emergency Generator #1 Running																																																												
S		Emergency Generator #1 Low Fuel																																																												
S		Emergency Generator #1 Leak Detection																																																												
S		Emergency Generator #2 Running																																																												
S		Emergency Generator #2 Low Fuel																																																												
S		Emergency Generator #2 Leak Detection																																																												
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S		Duct Detector on Return of AHU-4																																																												
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S		Duct Detector on Return of AHU-12																																																												
S		Duct Detector on Return of AHU-13																																																												
S		Duct Detector/Smoke Detector in SC FC-1/2																																																												
S		Duct Detector in SC FC-4/5	X																																																											
S		Duct Detector in SC FC-6		X																																																										
S		Duct Detector in SC FC-7/8			X																																																									

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SKA Project Number
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HCAI Number
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HCAI seal/signature

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APPROVED
Department of Health Care Access and Information
FACILITIES DEVELOPMENT DIVISION
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9/19/2022
STATE OF CALIFORNIA

Issued for
HCAI PLAN REVIEW

Drawn by KWS
Checked by JS

Project Name
4TH FLOOR ACU
AUTOMATIC DOOR
OPERATORS

Sheet Title
FIRE ALARM PLAN
SEQUENCE OF
OPERATION MATRIX
D

Date 07/06/2022
Scale NONE

Sheet Number
FA.0.01D

30 X 42

3/28/2018-Fred Michel

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VNGC Expanded Matrix

| | | | Fire Command Center Control Unit Annunciation | | | | Remote Annunciation | | | | Notification | | | | Nurse Call | Elev | Door Control | | | | | FSD Control (For Fan Control see Fan control Matrix) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---

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VNGC Expanded Matrix

| | | | Stair Pressurization Fans | | |

SYMBOL LEGEND

SYM.	MFG.	MODEL #	TOTAL QTY.	ACU ADD T.I. QTY.	DESCRIPTION	BACKBOX	CSFM
FACP 01	EST	EST-3	-		FIRE ALARM CONTROL PANEL	3-CAB21B	7165-1657:0186
		3-CPU3	1		CENTRAL PROCESSING UNIT MODULE	3-CAB21B	7165-1657:0186
		3-RS485A	1		NETWORK COMMUNICATIONS CARD	3-CAB21B	7165-1657:0186
		3-RS232	1		RS-232 COMMUNICATION CARD	3-CAB21B	7165-1657:0186
		3-PPS/M	1		PRIMARY POWER SUPPLY WITH LOCAL RAIL MODULE	3-CAB21B	7165-1657:0186
		3-MODCOM	1		MODEM/DIALER (DACT)	3-CAB21B	7165-1657:0186
		3-SDDC1	1		DUAL SIGNATURE DRIVER CONTROLLER	3-CAB21B	7165-1657:0186
		3-ASU/FT	1		AUDIO SOURCE UNIT WITH MICROPHONE & TELEPHONE	3-CAB21B	7165-1657:0186
		3-LCD	1		LIQUID CRYSTAL DISPLAY MODULE	3-CAB21B	7165-1657:0186
		3-12/S1GY	3		12 SWITCHES W/ 1 GRN & 1 YLW LED PER SWITCH DISPLAY	3-CAB21B	7165-1657:0186
		3-LRMF	2		LOCAL RAIL MODULE FILLER	3-CAB21B	7165-1657:0186
		3-XFP	1		EXTENDER FILLER PLATE	3-CAB21B	7165-1657:0186
		3-CHAS7	2		CHASSIS ASSEMBLY - 7 LOCAL RAIL MODULE SPACES	3-CAB21B	7165-1657:0186
		3-CAB21B	1		WALLBOX	INCLUDED	7165-1657:0186
		3-CAB21D	1		INNER & OUTER DOORS FOR WALLBOX	3-CAB21B	7165-1657:0186
BATT	EST	3-RCC14R	1		BATTERY CABINET	INCLUDED	7165-1657:0186
	EST	3-BATS	1		BATTERY SHELF	3-RCC14R	7165-1657:0186
	EST	12V65A	2		65AH BATTERY	3-RCC14R	-
	BY OTHERS	RJ31X	1		ALARM SYSTEM JACK	3-RCC14R	-
	EST	3-RCCEQ-65	1		EARTHQUAKE BRACE FOR 65AH BATTERY	3-RCC14R	-
	CE AUTO ELECTRIC	ATC7.5	1		7.5A ATC FUSE	3-RCC14R	-
	CE AUTO ELECTRIC	FPATC3	1		3-POSITION ATC FUSE PANEL W/POWER DISTRIBUTION	3-RCC14R	-
NODE 02	EST	EST-3	-		FIRE ALARM NODE 02	3-CAB21B	7165-1657:0186
		3-CPU3	1		CENTRAL PROCESSING UNIT MODULE	3-CAB21B	7165-1657:0186
		3-RS485A	1		NETWORK COMMUNICATIONS CARD	3-CAB21B	7165-1657:0186
		3-PPS/M	1		PRIMARY POWER SUPPLY WITH LOCAL RAIL MODULE	3-CAB21B	7165-1657:0186
		3-BPS/M	2		BOOSTER POWER SUPPLY WITH LOCAL RAIL MODULE	3-CAB21B	7165-1657:0186
		3-ZA20B	4		20 WATT ZONED AUDIO AMPLIFIER	3-CAB21B	7165-1657:0186
		3-ZA40B	5		40 WATT ZONED AUDIO AMPLIFIER	3-CAB21B	7165-1657:0186
		3-CHAS7	3		CHASSIS ASSEMBLY - 7 LOCAL RAIL MODULE SPACES	3-RCC21R	7165-1657:0186
		3-RCC21R	1		RED WALLBOX & DOOR	INCLUDED	7165-1657:0186
BATT	EST	3-RCC14R	1		BATTERY CABINET	INCLUDED	7165-1657:0186
	EST	3-BATS	1		BATTERY SHELF	3-RCC14R	-
	EST	12V50A	2		50AH BATTERY	3-RCC14R	-
	EST	3-RCCEQ-50	1		EARTHQUAKE BRACE FOR 50AH BATTERY	3-RCC14R	-
	CE AUTO ELECTRIC	ATC7.5	1		7.5A ATC FUSE	3-RCC14R	-
	CE AUTO ELECTRIC	FPATC3	2		3-POSITION ATC FUSE PANEL W/POWER DISTRIBUTION	3-RCC14R	-
NODE 03	EST	EST-3	-		FIRE ALARM NODE 03	3-CAB21B	7165-1657:0186
		3-CPU3	1		CENTRAL PROCESSING UNIT MODULE	3-CAB21B	7165-1657:0186
		3-RS485A	1		NETWORK COMMUNICATIONS CARD	3-CAB21B	7165-1657:0186
		3-PPS/M	1		PRIMARY POWER SUPPLY WITH LOCAL RAIL MODULE	3-CAB21B	7165-1657:0186
		3-BPS/M	1		BOOSTER POWER SUPPLY WITH LOCAL RAIL MODULE	3-CAB21B	7165-1657:0186
		3-SSDC1	1		SINGLE SIGNATURE DRIVER CONTROLLER	3-CAB21B	7165-1657:0186
		3-SDDC1	1		DUAL SIGNATURE DRIVER CONTROLLER	3-CAB21B	7165-1657:0186
		3-ZA40B	5		40 WATT ZONED AUDIO AMPLIFIER	3-CAB21B	7165-1657:0186
		3-CHAS7	3		CHASSIS ASSEMBLY - 7 LOCAL RAIL MODULE SPACES	3-RCC21R	7165-1657:0186
		3-RCC21R	1		RED WALLBOX & DOOR	INCLUDED	7165-1657:0186
BATT	EST	3-RCC14R	1		BATTERY CABINET	INCLUDED	7165-1657:0186
	EST	3-BATS	1		BATTERY SHELF	3-RCC14R	-
	EST	12V50A	2		50AH BATTERY	3-RCC14R	-
	EST	3-RCCEQ-50	1		EARTHQUAKE BRACE FOR 50AH BATTERY	3-RCC14R	-
	CE AUTO ELECTRIC	ATC7.5	1		7.5A ATC FUSE	3-RCC14R	-
	CE AUTO ELECTRIC	FPATC3	2		3-POSITION ATC FUSE PANEL W/POWER DISTRIBUTION	3-RCC14R	-
NODE 04	EST	EST-3	1		FIRE ALARM NODE 04	3-CAB21B	7165-1657:0186
		3-CPU3	1		CENTRAL PROCESSING UNIT MODULE	3-CAB21B	7165-1657:0186
		3-RS485A	1		NETWORK COMMUNICATIONS CARD	3-CAB21B	7165-1657:0186
		3-PPS/M	1		PRIMARY POWER SUPPLY WITH LOCAL RAIL MODULE	3-CAB21B	7165-1657:0186
		3-BPS/M	1		BOOSTER POWER SUPPLY WITH LOCAL RAIL MODULE	3-CAB21B	7165-1657:0186
		3-SDDC1	1		DUAL SIGNATURE DRIVER CONTROLLER	3-CAB21B	7165-1657:0186
		3-ZA40B	5		40 WATT ZONED AUDIO AMPLIFIER	3-CAB21B	7165-1657:0186
		3-CHAS7	3		CHASSIS ASSEMBLY - 7 LOCAL RAIL MODULE SPACES	3-RCC21R	7165-1657:0186
		3-RCC21R	1		RED WALLBOX & DOOR	INCLUDED	7165-1657:0186
BATT	EST	3-RCC14R	1		BATTERY CABINET	INCLUDED	7165-1657:0186
	EST	3-BATS	1		BATTERY SHELF	3-RCC14R	-
	EST	12V50A	2		50AH BATTERY	3-RCC14R	-
	EST	3-RCCEQ-50	1		EARTHQUAKE BRACE FOR 50AH BATTERY	3-RCC14R	-
	CE AUTO ELECTRIC	ATC7.5	1		7.5A ATC FUSE	3-RCC14R	-
	CE AUTO ELECTRIC	FPATC3	2		3-POSITION ATC FUSE PANEL W/POWER DISTRIBUTION	3-RCC14R	-
NODE 05	EST	EST-3	-		FIRE ALARM NODE 05	3-CAB21B	7165-1657:0186
		3-CPU3	1		CENTRAL PROCESSING UNIT MODULE	3-CAB21B	7165-1657:0186
		3-RS485A	1		NETWORK COMMUNICATIONS CARD	3-CAB21B	7165-1657:0186
		3-PPS/M	1		PRIMARY POWER SUPPLY WITH LOCAL RAIL MODULE	3-CAB21B	7165-1657:0186
		3-BPS/M	2		BOOSTER POWER SUPPLY WITH LOCAL RAIL MODULE	3-CAB21B	7165-1657:0186
		3-SDDC1	2		DUAL SIGNATURE DRIVER CONTROLLER	3-CAB21B	7165-1657:0186
		3-ZA20B	3		20 WATT ZONED AUDIO AMPLIFIER	3-CAB21B	7165-1657:0186
		3-ZA40B	5		40 WATT ZONED AUDIO AMPLIFIER	3-CAB21B	7165-1657:0186
		3-CHAS7	3		CHASSIS ASSEMBLY - 7 LOCAL RAIL MODULE SPACES	3-RCC21R	7165-1657:0186
		3-RCC21R	1		RED WALLBOX & DOOR	INCLUDED	7165-1657:0186
BATT	EST	3-RCC14R	1		BATTERY CABINET	INCLUDED	7165-1657:0186
	EST	3-BATS	1		BATTERY SHELF	3-RCC14R	-
	EST	12V50A	2		50AH BATTERY	3-RCC14R	-
	EST	3-RCCEQ-50	1		EARTHQUAKE BRACE FOR 50AH BATTERY	3-RCC14R	-
	CE AUTO ELECTRIC	ATC7.5	1		7.5A ATC FUSE	3-RCC14R	-
	CE AUTO ELECTRIC	FPATC3	2		3-POSITION ATC FUSE PANEL W/POWER DISTRIBUTION	3-RCC14R	-
NODE 06	EST	EST-3	-		FIRE ALARM NODE 06	3-CAB21B	7165-1657:0186
		3-CPU3	1		CENTRAL PROCESSING UNIT MODULE	3-CAB21B	7165-1657:0186
		3-RS485A	1		NETWORK COMMUNICATIONS CARD	3-CAB21B	7165-1657:0186
		3-PPS/M	1		PRIMARY POWER SUPPLY WITH LOCAL RAIL MODULE	3-CAB21B	7165-1657:0186
		3-BPS/M	2		BOOSTER POWER SUPPLY WITH LOCAL RAIL MODULE	3-CAB21B	7165-1657:0186
		3-SSDC1	1		SINGLE SIGNATURE DRIVER CONTROLLER	3-CAB21B	7165-1657:0186
		3-SDDC1	2		DUAL SIGNATURE DRIVER CONTROLLER	3-CAB21B	7165-1657:0186
		3-ZA20B	4		20 WATT ZONED AUDIO AMPLIFIER	3-CAB21B	7165-1657:0186
		3-ZA40B	4		40 WATT ZONED AUDIO AMPLIFIER	3-CAB21B	7165-1657:0186
		3-CHAS7	3		CHASSIS ASSEMBLY - 7 LOCAL RAIL MODULE SPACES	3-RCC21R	7165-1657:0186
		3-RCC21R	1		RED WALLBOX & DOOR	INCLUDED	7165-1657:0186
BATT	EST	3-RCC14R	1		BATTERY CABINET	INCLUDED	7165-1657:0186
	EST	3-BATS	1		BATTERY SHELF	3-RCC14R	-
	EST	12V50A	2		50AH BATTERY	3-RCC14R	-
	EST	3-RCCEQ-50	1		EARTHQUAKE BRACE FOR 50AH BATTERY	3-RCC14R	-
	CE AUTO ELECTRIC	ATC7.5	1		7.5A ATC FUSE	3-RCC14R	-
	CE AUTO ELECTRIC	FPATC3	2		3-POSITION ATC FUSE PANEL W/POWER DISTRIBUTION	3-RCC14R	-
NODE 07	EST	EST-3	-		FIRE ALARM NODE 07	3-CAB21B	7165-1657:0186
		3-CPU3	1		CENTRAL PROCESSING UNIT MODULE	3-CAB21B	7165-1657:0186
		3-RS485A	1		NETWORK COMMUNICATIONS CARD	3-CAB21B	7165-1657:0186
		3-PPS/M	1		PRIMARY POWER SUPPLY WITH LOCAL RAIL MODULE	3-CAB21B	7165-1657:0186
		3-BPS/M	2		BOOSTER POWER SUPPLY WITH LOCAL RAIL MODULE	3-CAB21B	7165-1657:0186
		3-SSDC1	1		SINGLE SIGNATURE DRIVER CONTROLLER	3-CAB21B	7165-1657:0186
		3-SDDC1	2		DUAL SIGNATURE DRIVER CONTROLLER	3-CAB21B	7165-1657:0186
		3-ZA20B	3		20 WATT ZONED AUDIO AMPLIFIER	3-CAB21B	7165-1657:0186
		3-ZA40B	4		40 WATT ZONED AUDIO AMPLIFIER	3-CAB21B	7165-1657:0186
		3-CHAS7	3		CHASSIS ASSEMBLY - 7 LOCAL RAIL MODULE SPACES	3-RCC21R	7165-1657:0186
		3-RCC21R	1		RED WALLBOX & DOOR	INCLUDED	7165-1657:0186
BATT	EST	3-RCC14R	1		BATTERY CABINET	INCLUDED	7165-1657:0186
	EST	3-BATS	1		BATTERY SHELF	3-RCC14R	-
	EST	12V50A	2		50AH BATTERY	3-RCC14R	-
	EST	3-RCCEQ-50	1		EARTHQUAKE BRACE FOR 50AH BATTERY	3-RCC14R	-
	CE AUTO ELECTRIC	ATC7.5	1		7.5A ATC FUSE	3-RCC14R	-
	CE AUTO ELECTRIC	FPATC3	2		3-POSITION ATC FUSE PANEL W/POWER DISTRIBUTION	3-RCC14R	-
NODE 08	EST	EST-3	-		FIRE ALARM NODE 08	3-CAB21B	7165-1657:0186
		3-CPU3	1		CENTRAL PROCESSING UNIT MODULE	3-CAB21B	7165-1657:0186
		3-RS485A	1		NETWORK COMMUNICATIONS CARD	3-CAB21B	7165-1657:0186
		3-PPS/M	1		PRIMARY POWER SUPPLY WITH LOCAL RAIL MODULE	3-CAB21B	7165-1657:0186
		3-BPS/M	1		BOOSTER POWER SUPPLY WITH LOCAL RAIL MODULE	3-CAB21B	7165-1657:0186
		3-SSDC1	1		SINGLE SIGNATURE DRIVER CONTROLLER	3-CAB21B	7165-1657:0186
		3-SDDC1	1		DUAL SIGNATURE DRIVER CONTROLLER	3-CAB21B	7165-1657:0186
		3-ZA40B	3		40 WATT ZONED AUDIO AMPLIFIER	3-CAB21B	7165-1657:0186
		3-CHAS7	3		CHASSIS ASSEMBLY - 7 LOCAL RAIL MODULE SPACES	3-RCC21R	7165-1657:0186
		3-RCC21R	1		RED WALLBOX & DOOR	INCLUDED	7165-1657:0186
BATT	EST	3-RCC14R	1		BATTERY CABINET	INCLUDED	7165-1657:0186
	EST	3-BATS	1		BATTERY SHELF	3-RCC14R	-
	EST	12V50A	2		50AH BATTERY	3-RCC14R	-
	EST	3-RCCEQ-50	1		EARTHQUAKE BRACE FOR 50AH BATTERY	3-RCC14R	-
	CE AUTO ELECTRIC	ATC7.5	1		7.5A ATC FUSE	3-RCC14R	-
	CE AUTO ELECTRIC	FPATC3	2		3-POSITION ATC FUSE PANEL W/POWER DISTRIBUTION	3-RCC14R	-
NODE 09	EST	EST-3	-		FIRE ALARM NODE 09	3-CAB21B	7165-1657:0186
		3-CPU3	1		CENTRAL PROCESSING UNIT MODULE	3-CAB21B	7165-1657:0186
		3-RS485A	1		NETWORK COMMUNICATIONS CARD	3-CAB21B	7165-1657:0186
		3-PPS/M	1		PRIMARY POWER SUPPLY WITH LOCAL RAIL MODULE	3-CAB21B	7165-1657:0186
		3-BPS/M	2		BOOSTER POWER SUPPLY WITH LOCAL RAIL MODULE	3-CAB21B	7165-1657:0186
		3-SDDC1	3		DUAL SIGNATURE DRIVER CONTROLLER	3-CAB21B	7165-1657:0186
		3-ZA20B	1		20 WATT ZONED AUDIO AMPLIFIER	3-CAB21B	7165-1657:0186
		3-ZA40B	5		40 WATT ZONED AUDIO AMPLIFIER	3-CAB21B	7165-1657:0186
		3-CHAS7	3		CHASSIS ASSEMBLY - 7 LOCAL RAIL MODULE SPACES	3-RCC21R	7165-1657:0186
		3-RCC21R	1		RED WALLBOX & DOOR	INCLUDED	7165-1657:0186
BATT	EST	3-RCC14R	1		BATTERY CABINET	INCLUDED	7165-1657:0186
	EST	3-BATS	1		BATTERY SHELF	3-RCC14R	-
	EST	12V50A	2		50AH BATTERY	3-RCC14R	-
	EST	3-RCCEQ-50	1		EARTHQUAKE BRACE FOR 50AH BATTERY	3-RCC14R	-
	CE AUTO ELECTRIC	ATC7.5	1		7.5A ATC FUSE	3-RCC14R	-
	CE AUTO ELECTRIC	FPATC3	2		3-POSITION ATC FUSE PANEL W/POWER DISTRIBUTION	3-RCC14R	-

SYMBOL LEGEND

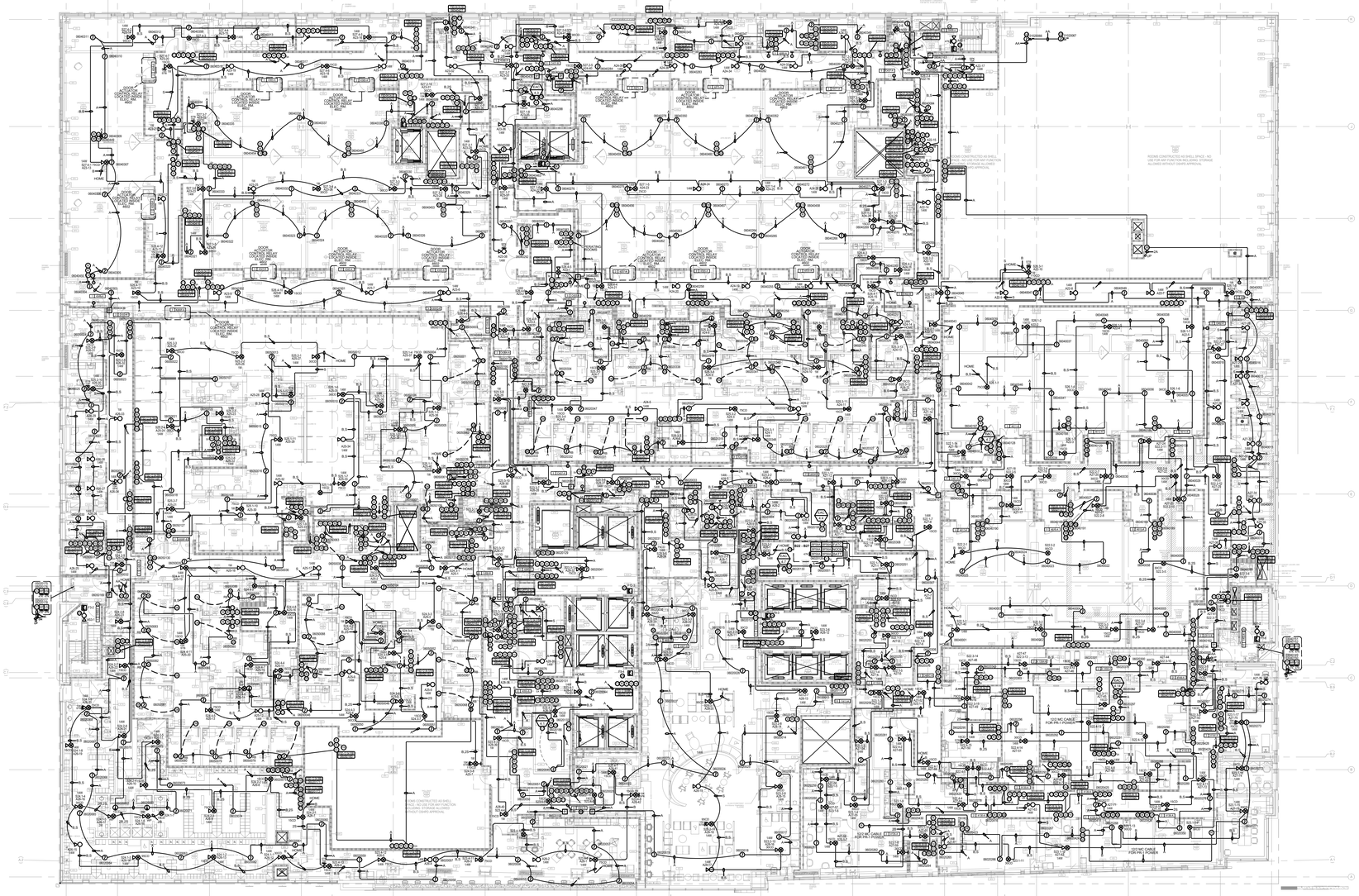
SYM.	MFG.	MODEL #	TOTAL QTY.	ACU ADD T.I. QTY.	DESCRIPTION	BACKBOX	CSFM
NODE 10	EST	EST-3	-		FIRE ALARM NODE 10	3-CAB21B	7165-1657:0186
		3-CPU3	1		CENTRAL PROCESSING UNIT MODULE	3-CAB21B	7165-1657:0186
		3-RS485A	1		NETWORK COMMUNICATIONS CARD	3-CAB21B	7165-1657:0186
		3-PPS/M	1		PRIMARY POWER SUPPLY WITH LOCAL RAIL MODULE	3-CAB21B	7165-1657:0186
		3-BPS/M	1		BOOSTER POWER SUPPLY WITH LOCAL RAIL MODULE	3-CAB21B	7165-1657:0186
		3-SDDC1	3		DUAL SIGNATURE DRIVER CONTROLLER	3-CAB21B	7165-1657:0186
		3-ZA40B	5		40 WATT ZONED AUDIO AMPLIFIER	3-CAB21B	7165-1657:0186
		3-CHAS7	3		CHASSIS ASSEMBLY - 7 LOCAL RAIL MODULE SPACES	3-RCC21R	7165-1657:0186
		3-RCC21R	1		RED WALLBOX & DOOR	INCLUDED	7165-1657:0186
BATT	EST	3-RCC14R	1		BATTERY CABINET	INCLUDED	7165-1657:0186
	EST	3-BATS	1		BATTERY SHELF	3-RCC14R	-
	EST	12V50A	2		50AH BATTERY	3-RCC14R	-
	EST	3-RCCEQ-50	1		EARTHQUAKE BRACE FOR 50AH BATTERY	3-RCC14R	-
	CE AUTO ELECTRIC	ATC7.5	1		7.5A ATC FUSE	3-RCC14R	-
	CE AUTO ELECTRIC	FPATC3	2		3-POSITION ATC FUSE PANEL W/POWER DISTRIBUTION	3-RCC14R	-
NODE 11	EST	EST-3	-		FIRE ALARM NODE 11	3-CAB21B	7165-1657:0186
		3-CPU3	1		CENTRAL PROCESSING UNIT MODULE	3-CAB21B	7165-1657:0186
		3-RS485A	1		NETWORK COMMUNICATIONS CARD	3-CAB21B	7165-1657:0186
		3-PPS/M	1		PRIMARY POWER SUPPLY WITH LOCAL RAIL MODULE	3-CAB21B	7165-1657:0186
		3-BPS/M	1		BOOSTER POWER SUPPLY WITH LOCAL RAIL MODULE	3-CAB21B	7165-1657:0186
		3-SSDC1	1		SINGLE SIGNATURE DRIVER CONTROLLER	3-CAB21B	7165-1657:0186
		3-SDDC1	1		DUAL SIGNATURE DRIVER CONTROLLER	3-CAB21B	7165-1657:0186
		3-ZA20B	4		20 WATT ZONED AUDIO AMPLIFIER	3-CAB21B	7165-1657:0186
		3-ZA40B	3		40 WATT ZONED AUDIO AMPLIFIER	3-CAB21B	7165-1657:0186
		3-LCD	1		LIQUID CRYSTAL DISPLAY MODULE	3-CAB21B	7165-1657:0186
		3-12/S1GY	1		12 SWITCHES WITH 1 GREEN & 1 YELLOW LED PER SWITCH DISPLAY	3-CAB21B	7165-1657:0186
		3-XFP	2		EXTENDER FILLER PLATE	3-CAB21B	7165-1657:0186
		3-CHAS7	3		CHASSIS ASSEMBLY - 7 LOCAL RAIL MODULE SPACES	3-CAB21B	7165-1657:0186
		3-CAB21B	1		WALLBOX	INCLUDED	7165-1657:0186
		3-CAB21D	1		INNER & OUTER DOORS FOR WALLBOX	3-CAB21B	7165-1657:0186
BATT	EST	3-RCC14R	1		BATTERY CABINET	INCLUDED	7165-1657:0186
	EST	3-BATS	1		BATTERY SHELF	3-RCC14R	-
	EST	12V50A	2		50AH BATTERY	3-RCC14R	-
	EST	3-RCCEQ-50	1		EARTHQUAKE BRACE FOR 50AH BATTERY	3-RCC14R	-
	CE AUTO ELECTRIC	ATC7.5	1		7.5A ATC FUSE	3-RCC14R	-
	CE AUTO ELECTRIC	FPATC3	2		3-POSITION ATC FUSE PANEL W/POWER DISTRIBUTION	3-RCC14R	-
PRNT	EST	PT-1S	1		SERIAL PRINTER	-	7165-1657:0186
GFCP 12	EST	3-ANNCPU3	1		FAN CONTROL PANEL CENTRAL PROCESSING UNIT	RSF-L-GR-GP4	7120-1657:0193
	EST	3-EVPWRA	1		ANNUNCIATOR POWER SUPPLY CARD	RSF-L-GR-GP4	7120-1657:0199
	EST	3-EVDVRA	2		LED / SWITCH DRIVER MODULE	RSF-L-GR-GP4	7120-1657:0199
	EST	3-EVDVRX	1		PLASTIC MOUNTING EXTRUSION FOR EVDVRA	RSF-L-GR-GP4	7120-1657:0199
	HR KIRKLAND	RSF-L-GR-GP4	1		CABINET - 30"W x 41.63"H x4.75"D	INCLUDED	7120-1178:0100
GFAA 13	EST	3-ANNCPU3	1		GRAPHIC ANNUNCIATOR CENTRAL PROCESSING UNIT	RSG-GR-GP4	7120-1657:0193
	EST	3-EVPWRA	1		ANNUNCIATOR POWER SUPPLY CARD	RSG-GR-GP4	7120-1657:0199
	EST	3-EVDVRA	9		LED / SWITCH DRIVER MODULE	RSG-GR-GP4	7120-1657:0199
	EST	3-EVDVRX	3		PLASTIC MOUNTING EXTRUSION FOR EVDVRA	RSG-GR-GP4	7120-1657:0199
	HR KIRKLAND	RSG-GR-GP4	1		CABINET - 52.75"W x 41"H x4.75"D	INCLUDED	7120-1178:0100
FAA 14	EST	3-LCDANN	1		REMOTE LCD ANNUNCIATOR	3-6ANN/B	7120-1657:0193
		3-6ANN/B	1		WALLBOX	INCLUDED	7120-1657:0193
		3-CPUDR	2		2 BLANK PLATES FILLER PLATES	3-6ANN/B	-
FAA 16	EST	3-6ANN	1		SIX POSITION BASE ANNUNCIATOR INCLUDES (2) 3-ANNSM, (5) BLANK FILLER PLATES, CPU, DISPLAY & DOOR	3-6ANN	7120-1657:0193
		3-6ANN/B	1		WALLBOX	INCLUDED	7120-1657:0193
		3-ANNCPU3	1		ANNUNCIATOR CENTRAL PROCESSING UNIT	3-6ANN	7120-1657:0193
		3-ANNSM	1		ANNUNCIATOR SUPPORT MODULE	3-6ANN	7120-1657:0193
		3-6/3S1GYR	3		6 GROUPS OF 3 SWITCHES. 1 GRN, 1 YLW, 1 RED LED PER SWITCH	3-6ANN	7165-1657:0193
FAA 15	EST	3-6ANN	1		SIX POSITION BASE ANNUNCIATOR INCLUDES (2) 3-ANNSM, (5) BLANK FILLER PLATES, CPU, DISPLAY & DOOR	3-6ANN	7120-1657:0193
		3-6ANN/B	1		WALLBOX	INCLUDED	7120-1657:0193
		3-ANNCPU3	1		ANNUNCIATOR CENTRAL PROCESSING UNIT	3-6ANN	7120-1657:0193
		3-LCD	1		LIQUID CRYSTAL DISPLAY MODULE	3-6ANN	7120-1657:0193
		3-REMICA	1		REMOTE MICROPHONE	3-6ANN	7120-1657:0193
		3-12/S1GY	2		12 SWITCHES W/ 1 GRN & 1 YLW LED PER SWITCH DISPLAY	3-6ANN	7165-1657:0193
P	EST	SIGA-278	97		DUAL ACTION MANUAL PULL STATION	4" SQ. DEEP BOX WITH 1 GANG RING	7150-1657:0129
	EST	276B-RSB	5		SURFACE MOUNT BOX FOR SIGA PULL STATION	276B-RSB	-
P WP	EST	MPSR1-D45W-GE	2		WEATHERPROOF DOUBLE ACTION MANUAL PULL STATION	INCLUDED	7150-1657:0236
UIO	EST	SIGA-UIO6	3		UNIVERSAL INPUT/OUTPUT MODULE MOTHERBOARD	MFC-A	7300-1657:0121
UIO 6R	EST	SIGA-UIO6R	20		UNI INPUT/OUTPUT MODULE MOTHERBOARD WITH 6 RISER INPUTS	MFC-A	7300-1657:0121
UIO 2R	EST	SIGA-UIO2R	2		UNI INPUT/OUTPUT MODULE MOTHERBOARD WITH 2 RISER INPUTS	MFC-A	7300-1657:0121
CAB	EST	MFC-A	4		MULTI-FUNCTION FIRE CABINET	INCLUDED	7300-1657:0121
RCC	EST	3-RCC21R	3		UIO CABINET	INCLUDED	7165-1657:0186
UIO MCC	EST	SIGA-MCC1	62		SIGNAL MODULE - UIO MOUNT	MFC-A	7300-1657:0121
UIO CR	EST	SIGA-MCR	16		CONTROL RELAY - UIO MOUNT	MFC-A	7300-1657:0121
UIO CT	EST	SIGA-MCT2	11		DUAL INPUT MODULE - UIO MOUNT	MFC-A	7300-1657:0121
CC S	EST	SIGA-CC1S	18		SYNCHRONIZATION OUTPUT MODULE	4" SQ. DEEP BOX WITH 2 GANG RING	7300-1657:0121
CR	EST	SIGA-CR	397		CONTROL RELAY	4" SQ. DEEP BOX WITH 1 GANG RING	7300-1657:0121
CR H	EST	SIGA-CRH	37	1	HIGH POWER CONTROL RELAY	4" SQ. DEEP BOX WITH 1 GANG RING	7300-1657:0121
CT1	EST	SIGA-CT1	28		SINGLE INPUT MODULE	4" SQ. DEEP BOX WITH 1 GANG RING	7300-1657:0121
CT2	EST	SIGA-CT2	89		DUAL INPUT MODULE	4" SQ. DEEP BOX WITH 1 GANG RING	7300-1657:0121
IO	EST	SIGA-IO	1062		INPUT/OUTPUT MODULE	4" SQ. DEEP BOX WITH 1 GANG RING	7300-1657:0210
R	SYSTEM SENSOR	PR-1	2530		MULTI-VOLTAGE RELAY	4" SQ. DEEP BOX WITH 1 GANG RING	7300-1653:0172
?	EST	SIGA2-PS SIGA-PD	1777		PHOTO SMOKE DETECTOR	SIGA-SB4	7272-1657:0299 7272-1657:0331
		SIGA-SB4	1777		4" DETECTOR MOUNTING BASE	4" OCTAGON BOX	7300-1657:0120
?	EST	SIGA2-PS SIGA-PD	2		PHOTO SMOKE DETECTOR (WALL MOUNTED)	SIGA-SB4	7272-1657:0299 7272-1657:0331
		SIGA-SB4	2		4" DETECTOR MOUNTING BASE	4" OCTAGON BOX	7300-1657:0120
? P	EST	SIGA2-PS SIGA-PD	3		PENDANT MOUNT PHOTO SMOKE DETECTOR	SIGA-SB4	7272-1657:0299 7272-1657:0331
		SIGA-SB4	3		4" DETECTOR MOUNTING BASE	4" OCTAGON BOX	7300-1657:0120
? RB	EST	SIGA2-PS SIGA-PD	335		PHOTO SMOKE DETECTOR	SIGA-RB4	7272-1657:0299 7272-1657:0331
		SIGA-RB4	335		4" DETECTOR MOUNTING BASE WITH RELAY	4" OCTAGON BOX	7300-1657:0120
? DMP	EST	SIGA-PD	93		PHOTO SMOKE DETECTOR	SIGA-SB	7272-1657:0331
		SIGA-DMP	93		DETECTOR MOUNTING PLATE	INCLUDED	-
		SIGA-SB	93		DETECTOR MOUNTING BASE	SIGA-DMP	7300-1657:0120
	EST	SIGA2-HRS	252		FIXED TEMP. / RATE-OF-RISE HEAT DETECTOR	SIGA-SB4	7270-1657:0288
		SIGA-SB4	252		4" DETECTOR MOUNTING BASE	4" OCTAGON BOX	7300-1657:0120
F	EST	SIGA2-HFS	1		FIXED TEMP. HEAT DETECTOR	SIGA-SB4	7270-1657:0288
		SIGA2-HRD			RATE OF RISE HEAT DETECTOR		7270-1657:0333
		SIGA-SB4	1		4" DETECTOR MOUNTING BASE	4" OCTAGON BOX	7300-1657:0120
RC	EST	302-EPM-135	7		HEAT DETECTOR - RATE COMP., 135 DEGREE	-	7270-0021:0001
		JALX-11	7		OUTLET BODY WITH COVER	INCLUDED	-
		SIGA-CT1	7		SINGLE INPUT MODULE	4" SQ. DEEP BOX WITH 1 GANG RING	7300-1657:0121
WP	EST	302-AW-135	1		WEATHERPROOF HEAT DETECTOR - RATE COMP., 135 DEGREE	-	7270-0021:0001
		SIGA-CT1	1		SINGLE INPUT MODULE	4" SQ. DEEP BOX WITH 1 GANG RING	7300-1657:0121
?—	EST	SIGA-SD	96		DUCT SMOKE DETECTOR	INCLUDED	3242-1657:0223
		SD-TBX	96		SAMPLING TUBE	-	-
BPS6A	EST	BPS6A	54		6.5 AMP BOOSTER POWER SUPPLY	INCLUDED	7300-1657:0229
	EST	12V6A5	108		7.2AH BATTERY		
	EST	BPSEQ	54		EARTHQUAKE BRACE FOR 7.2AH BATTERY	BPS10A	-
15CD WP	EST	757-7A-RS70	39		WEATHERPROOF SPEAKER-STROBE 15/75CD (WALL - CEILING)	757A-WB	7125-1657:0181
		757A-WB	39		WEATHERPROOF BOX	-	-
		LKC-1	39		LENS KIT	-	-
60CD WP 110CD WP	EST	757-8A-RS70	13		WEATHERPROOF SPEAKER-STROBE - 110CD WALL, 60CD CEILING	757A-WB	7125-1657:0181
		757A-WB	13		WE

OPENING NUMBER	FIRE RATING (MINUTES)	SELF CLOSING	AUTOMATIC CLOSING - MHO	SECURITY DEVICE (CR)	DELAYED EGRESS	AUTOMATIC DOOORS	HW GROUP	FAIL SAFE (FS) OR FAIL SECURE (FSE)	TIE INTO FA	LEVEL / FLOOR	COMMENTS	ROOM	FIRE ALARM DESCRIPTION #
P3100-C	90S		2				30A	FS	1	P3		Elevator Lobby	5
P3100-A		2				2	03	FS	1	P3		Elevator Lobby	8
P3300-A		1				1	01	FS	1	P3		Elevator Lobby	8
P2100-A		2				2	03	FS	1	P2		Elevator Lobby	8
P2300-A		1				1	01	FS	1	P2		Elevator Lobby	8
S106-A	90S	1		1			6A	FS	1	1		Stair #6	1
C140-A	45S	2		1		2	42	FSE	1	1		Corridor	2
C152-A	45S	2		1		2	42B	FSE	1	1		Hallway	2
C151-A	45S	2		1		2	42A	FSE	1	1		Hallway	2
1604-A	S		1				126	FS	1	1		Secure Drop Off	5
1050-A	45S		2				18	FS	1	1		Elevator Lobby	5
1051-A	45S	2		1		2	40	FSE	1	1		Storage, Medical Equipment	2
1060-A	45S	1		1			47	FS	1	1		Elevator Lobby	2
1060-B	45S		2				147	FS	1	1		Elevator Lobby	5
1061A-A	20S	1				1	02	FS	1	1		Toilet Patient	8
1210-A		1				1	01	FS	1	1		Toilet Patient	8
1522-B	45S	1		1		1	45	FSE	1	1		Workroom, Dish Potwash	2
1323-B	45S	1		1		1	45B	FSE	1	1		Anteroom	2
1340-A	-	1					2	FS	1	1	Mag Lock	Technology Room	7
X1 000-B	-	1		1		2	2A	FS	1	1	Besam SL500, Mag Lock	Lobby	2
S202-A	20S	1		1			6A	FS	1	2		Stair #2	1
S203-A	90S	1		1			6A	FS	1	2		Stair #3	1
S205-A	90S	1		1			6A	FS	1	2		Stair #5	1
2920-A	60S	1					2	FS	1	2		Lobby	10
C291-A	45S		2				17A	FS	1	2		Corridor	5
C228-A	S	1					2	FS	1	2		Elevator 24 (Corridor)	11
C225-A	20S		2				19	FS	1	2		Corridor	5
2050-A	45S		2				147A	FS	1	2		Elevator Lobby	5
2200-B	S	2		1		2	40A	FSE	1	2		Bulk Stores and Receiving	2
2240-B	S	2		1		2	42A	FSE	1	2		Storage, EVS	2
2600-A	60S	1					2	FS	1	2		Seating Café	11
2620-A	45S		2			2	2	FS	1	2	Rated Storefront	Dining, Cafeteria	3
2450-B	20S	1					121	FS	1	2		Workroom, Cashier	6
2232-B	S	1					2	FS	1	2		Elevator 23, Soil Group 7	10
2338-A	S	1					2	FS	1	2		Elevator 21 Clean Group 6	10
2338-B	S	1					2	FS	1	2		Elevator 22 Clean Group 6	10
2810-A	45S	1				1	05	FS	1	2		Elevator Lobby	8
2934-A	20S	1				1	04	FS	1	2		Toilet Patient	8
2936-A	20S	1				1	04	FS	1	2		Toilet Patient	8
X2 013-A	-	1				2	2A	FS	1	2	Besam SL500, Mag Lock	Lobby	3
S302-A	20S	1		1			6A	FS	1	3		Stair #2	1
S306-A	20S	1		1			6A	FS	1	3		Stair #6	1
C360-A	-	2		1		2	20	FSE	1	3		Corridor	2
C361-A	45S	2				2	86	FS	1	3		Hallway	3
C305-B	90S	2				2	20	FS	1	3		Corridor	2
C392-A	-	2		1		2	22A	FS	1	3	Mag Lock	Corridor	2
C392-B	45S	2		1		2	22A	FS	1	3	Mag Lock	Corridor	2
C395-A	20S	2		1		2	22A	FS	1	3	Mag Lock	Corridor	2 & 5
C331-A	-	2		1		2	20	FSE	1	3		Hallway	2
C333-A	-		2				19	FS	1	3		Hallway	5
C334A-A	45S		2				66	FS	1	3		Corridor	5
C334A-B	-	2		1		2	20	FSE	1	3		Corridor	2
C334A-C	45S		2				19	FS	1	3		Corridor	5
C332-A	45S		2				17	FS	1	3		Hallway	5
C333A-A	45S		2				17	FS	1	3		Hallway	5
C350-A	45S	2				2	86	FS	1	3		Corridor	3
C350-B	20S		2				19	FS	1	3		Corridor	5
C352-A	45S	1				1	46	FS	1	3		Hallway	3
C351A-A	90S	2				2	22	FS	1	3		Corridor	3
C353-A	45S	1				1	46	FS	1	3		Hallway	3
C335-A	45S		2				17	FS	1	3		Hallway	5
C338A-A	45S		2				17	FS	1	3		Hallway	5
3050-A	20S		2				18	FS	1	3		Elevator Lobby	5
3050-B	S	1					2	FS	1	3		Elevator Lobby	10
3050-C	S	1					2	FS	1	3		Elevator Lobby	10
3050-D	S	1					2	FS	1	3		Elevator Lobby	10
3050-E	S	1					2	FS	1	3		Elevator Lobby	10
3200-A	90S	2			1	2	20B	FS	1	3		Lobby	2
3220-B	-	2				2	42	FSE	1	3		Holding, Recyclcing, Cardboard	3
3308-A	45S		2				17A	FS	1	3		Waiting, Pediatric	5
3301-A	S	1					2	FS	1	3		Lobby	10
3060-A	20S		2				18	FS	1	3		Elevator Lobby	5
3900-A	60S	1					2	FS	1	3		Elevator Lobby	11
3900-B	45S	2				2	2	FSE	1	3	Interior Aluminum door/frame	Elevator Lobby	3
3510-A	45S	2				2	124	FSE	1	3		Hold, Patient	3
3509-A	20S LL	2				2	75A	FSE	1	3		CT Scan	3
3503-A	20S LL	2				2	75A	FSE	1	3		CT Scan	3
3501-A	20S LL	2				2	75E	FSE	1	3		CT Scan	3
3590-A	45S	2				2	75	FSE	1	3		Vestibule, MRI	3
3559-A	20S LL	1				1	138	FSE	1	3		Fluoroscopy	3
3555-A	20S LL	1				1	138A	FSE	1	3		Radiology/Fluoroscopy	3
3553-A	20S LL	1				1	138	FSE	1	3		Radiology, General X-ray	3
3551-A	20S LL	1				1	138	FSE	1	3		Radiology, General X-ray	3
3399-A	S		1				97B	FS	1	3		Holding, Patient Observe Care	5
3306-A	20S	1				1	02	FS	1	3		Toilet Patient	8
3395-A	20S	1				1	02	FS	1	3		Toilet Patient	8
3911-A	20S	1				1	04	FS	1	3		Toilet Public Female	8
3913-A	20S	1				1	04	FS	1	3		Toilet Public Male	8
3948-A	20S	1				1	02	FS	1	3		Toilet Public	8
X3 321-A	45S	2				2	2A	FS	1	3	Besam SL500, Mag Lock	Lobby	3
S402A-A	90S	1		1			6B	FS	1	4		Stair #2	1
S404A-A	90S	1		1			6B	FS	1	4		Stair #4	1
S406A-A	90S	1		1			6B	FS	1	4		Stair #6	1
C412-A	45S	2		1		2	20	FS	1	4		Hallway	2
C413-A	20S		2				19	FS	1	4		Corridor	5
C413-B	20S	2		1		2	23A	FS	1	4		Corridor	2
C411A-A	-		2				19	FS	1	4		Corridor	5
C411A-B	45S	2		1		2	20	FS	1	4		Corridor	2
C411-A	45S	1		1	1		106A	FS	1	4	Delayed Egress Hardware	Corridor	9
C491-A	45S	1		1	1		106	FS	1	4	(E) Delayed Egress	Hallway	9
C404-A	90S	2		1	1	2	23	FS	1	4	Delayed Egress	Corridor	9
C426-A	45S	2				2	86	FSE	1	4		Hallway	3
C426-B	45S	2				2	86	FS	1	4		Hallway	3
C432-A	20S	2		1		2	23C	FS	1	4		Corridor	2
C406-A	45S		2				19A	FS	1	4		Corridor	5
C407-A	90S		2				19	FS	1	4		Corridor	5
C441-A	90S	2				2	86	FSE	1	4		Hallway	3
C441-B	45S	1		1	1		02	FSE	1	4		Hallway	9
C441-C	45S	2				2	86	FSE	1	4		Hallway	3
C460C-A	-		2				19	FS	1	4		Corridor	5
C460A-A	20S		2				19	FS	1	4		Hallway	5
C451-A	20S	2		1		2	23A	FS	1	4		Corridor	2
C433-A	90S		2				19	FS	1	4		Corridor	5
C433-B	20S		2				19	FS	1	4		Corridor	5
C461-A	20S	2		1		2	20	FSE	1	4		Corridor	2
C462-A	20S		2				19	FS	1	4		Corridor	5
C437-A	20S	2	2				19	FS	1	4		Corridor	5
C438A-A	20S	2		2		2	23A	FSE	1	4		Corridor	2
C415.2-A	S		2				146	FS	1	4		Electronics	5
4156-A	20S		2			2	75	FSE	1	4		Procedure Room, Fluoro	3
4134-A	20S	2				2	75	FSE	1	4		Procedure, Fluoro	3
4131-A	20S	1				1	02	FS	1	4		Toilet Public	8
4130-A	20S	2				2	75A	FSE	1	4		Procedure, Fluoro	3
4050-A	20S	2		1		2	20	FSE	1	4		Elevator Lobby	2
4348-A	20S		2				99	FS	1	4		Storage, Imaging	5
4300F-A	45S	2				2	75B	FSE	1	4		Recovery, PACU	3
4300F-B	45S	2		1		2	20	FSE	1	4		Recovery, PACU	2
4300G-A	45S	2				2	124	FSE	1	4		Recovery, PACU	3
4060-A	45S	2		2		2	20	FS	1	4		Elevator Lobby	2
C430-A	45S	2		1		2	20	FSE	1	4		Hallway	2
4346-B	20S	1					121	FS	1	4		Control Station	6
4900-A	60S	1					2	FS	1	4		Elevator Lobby	11
4617-A	20S	2				2	75C	FSE	1	4		Procedure, Cardiac, Cath	3
4611-A	20S	2				2	75C	FSE	1	4		Procedure, Interventional Radiology	3
4616-A	20S	2				2	75D	FSE	1	4		Procedure, Cardiac, Cath	3
4612-A	20S	2				2	75C	FSE	1	4		Procedure, Interventional Radiology	3
4529-A	20S		2				100	FS	1	4		Storage, Imaging	5

OPENING NUMBER	FIRE RATING (MINUTES)	SELF CLOSING	AUTOMATIC CLOSING - MHO	SECURITY DEVICE (CR)	DELAYED EGRESS	AUTOMATIC DOOORS	HW GROUP	FAIL SAFE (FS) OR FAIL SECURE (FSE)	TIE INTO FA	LEVEL / FLOOR	COMMENTS	ROOM	FIRE ALARM DESCRIPTION #
4333-A	20S	2			2	2	75C	FSE	1	4		Operating Room, General	3
4335-A	20S	2			2	2	75C	FSE	1	4		Operating Room, General	3
4395-F	S	1					2	FS	1	4		Elevator 21 (Sub sterile core)	10
4395-G	S	1					2	FS	1	4		Elevator 22 (Sub sterile core)	10
4477-A	20S	2			2	2	75C	FSE	1	4		Operating Room, Hybrid	3
4375-A	20S	2			2	2	75C	FSE	1	4		Operating Room, General	3
4380-A	45S			2			146	FS	1	4		Storage, Imaging	5
4337-A	20S	2			2	2	75C	FSE	1	4		Operating Room, General	3
4373-A	20S	2			2	2	75C	FSE	1	4		Operating Room, General	3
4343-A	20S	2			2	2	75C	FSE	1	4		Operating Room, General	3
4345-A	20S	2			2	2	75C	FSE	1	4		Operating Room, General	3
4367-B	S	1					2	FS	1	4		Elevator 23 (Workroom, Soiled Decontam)	10
4365-A	20S	2			2	2	75C	FSE	1	4		Operating Room, General	3
4368-A	45S		2				98	FS	1	4		Storage, Imaging	5
4347-A	20S	2			2	2	75C	FSE	1	4		Operating Room, Transplant	3
4363-A	20S	2			2	2	75C	FSE	1	4		Operating Room, Transplant	3
4350-A	20S	2			2	2	75C	FSE	1	4		Operating Room, Cardio	3
4354-A	20S	2			2	2	75C	FSE	1	4		Operating Room, Cardio	3
4905-A	20S	1				1	04	FS	1	4		Toilet Public Female	8
4907-A	20S	1				1	04	FS	1	4		Toilet Public Male	8
S502A-A	90S	1		1	1		106	FS	1	5	Delayed Egress	Vestibule Stair #2	9
S502A-B	20S	1		1			6A	FS	1	5		Stair #2	1
S504A-A	90S	1		1	1		106	FS	1	5	Delayed Egress	Vestibule Stair #4	9
S504A-B	20S	1		1			6A	FS	1	5		Stair #4	1
S506A-A	90S	1		1	1		106	FS	1	5	Delayed Egress	Vestibule Stair #6	9
S506A-B	20S	1		1			6A	FS	1	5		Stair #6	1
C515-A	20S		2				17A	FS	1	5		Corridor	5
C514-A	90S		2				19A	FS	1	5		Corridor	5
C536-A	-	2		1		2	20	FS	1	5		Corridor	2
C536-B	-	2		1		2	20	FS	1	5		Corridor	2
C540-A	45S	2		1		2	20	FS	1	5		Hallway	2
C540-B	45S	2		1		2	20	FS	1	5		Hallway	2
C541-A	45S	2		1		2	20	FS	1	5		Hallway	2
C590-A	60S	1					2	FS	1	5		Corridor	11
C590-B	20S		2				19	FS	1	5		Corridor	5
C590-C	-	2		1		2	20	FS	1	5	1 CR; 1 remote release at Nurse Station	Corridor	2
C500-A	45S		2				17	FS	1	5		Hallway	5
C516-A	-	2		1		2	23A	FS	1	5		Corridor	2
C555-A	20S	2		2		2	23B	FS	1	5		Corridor	2
C531-A	-	2		1		2	20	FS	1	5		Corridor	2
C552-A	20S	2		2		2	23B	FS	1	5		Corridor	2
C532-A	20S		2				19	FS	1	5		Corridor	5
C501-A	45S	2		1		2	20	FS	1	5		Hallway	2
C550-A	-	2		2		2	23B	FS	1	5		Corridor	4
C503-A	-	2		1		2	20	FS	1	5		Corridor	2
5143-A	45S		1				84	FSE	1	5		Waiting, Antenatal	5
5050-A	S		2				17A	FS	1	5		Elevator Lobby	5
5050-B	S	2		1		2	20	FS	1	5		Elevator Lobby	2
5060-A	45S		2				17	FS	1	5		Elevator Lobby	5
5060-B	S	2		1		2	20	FS	1	5		Elevator Lobby	2
5900-A	S	1					2	FS	1	5		Elevator 10 Lobby	10
5900-B	S	1					2	FS	1	5		Elevator 9 Lobby	10
5900-C	S	1					2	FS	1	5		Elevator 8 Lobby	10
5900-D	S	1					2	FS	1	5		Elevator 7 Lobby	10
5900-E	S	1					2	FS	1	5		Elevator 6 Lobby	10
5900-F	S	1					2	FS	1	5		Elevator 5 Lobby	10
5902-A	20S	1				1	02	FS	1	5		Toilet Public	8
5450-A	60S	1					2	FS	1	5		Family Room	11
5450-B	120S	1					2	FS	1	5		Family Room	11
5409-A	20S	1				1	06	FS	1	5		Soiled Workroom	8
5409-B	S	1					2	FS	1	5		Elev 23 Soil Group 7	10
5427-A	20S	1				1	02	FS	1	5		Toilet Public	8
C533-A	20S		2				17A	FS	1	5		Hallway	5
S602A-B	20S	1		1			6A	FS	1	6		Stair #2	1
S604A-B	20S	1		1			6A	FS	1	6		Stair #4	1
C614-A	-	2		1	1	2	25	FS	1	6	Delayed Egress	Corridor	8
C616-B	S	2		1		2	20A	FS	1	6		Corridor	2
C616-C	90S		2				19	FS	1	6		Corridor	5
C620-A	-		2				19	FS	1	6		Corridor	5
C621-A	20S	2		1	1	2	23	FS	1	6	Delayed Egress	Corridor	8
C630C-A	20S	2		1		2	20A	FS	1	6		Corridor	2
C630A-A	90S	2		1		2	20A	FS	1	6		Elevator Lobby/Corridor	2
C630B-A	20S		2				19	FS	1	6		Corridor	5
C631-A	20S		2				19	FS	1	6		Corridor	5
C691-A	90S	2		1	1	2	23	FS	1	6	Delayed Egress	Corridor	8
C690-A	-		2				19	FS	1	6		Corridor	5
C605-A	90S		2				19	FS	1	6		Corridor	5
C606-A	-	2		1		2	20	FS	1	6		Corridor	2
6050-A	20S		2				18	FS	1	6		Elevator Lobby	5
6060-A	90S		2				18	FS	1	6		Elevator Lobby	5
6060-B	S	1					2	FS	1	6		Elevator 26 Lobby	10
6060-C	S	1					2	FS	1	6		Elevator 16 Lobby	10
6060-D	S	1					2	FS	1	6		Elevator 17 Lobby	10
6060-E	S	1					2	FS	1	6		Elevator 18 Lobby	10
6060-F	S	1					2	FS	1	6		Elevator 20 Lobby	10
6105-A	20S	1				1	06	FS	1	6		Soiled Workroom	8
6305-A	20S	1				1	06	FS	1	6		Soiled Workroom	8
6900-A	60S	1					2	FS	1	6		Elevator Lobby	11
6902-A	20S	1				1	02	FS	1	6		Toilet Public Male	8
S702A-A	90S	1		1	1		106	FS	1	7	Delayed Egress	Vestibule Stair #2	9
S702A-B	20S	1		1			6A	FS	1	7		Stair #2	1
S704A-A	90S	1		1	1		106	FS	1	7	Delayed Egress	Vestibule Stair #4	9
S704A-B	20S	1		1			6A	FS	1	7		Stair #4	1
C714-A	-	2		1		2	20	FS	1	7		Corridor	2
C714-B	90S	2		1		2	23B	FS	1	7		Corridor	2
C720-A	-	2		1		2	20	FS	1	7		Corridor	2
C735-A	90S		2				19	FS	1	7		Corridor	5
C710-A	-		2				19	FS	1	7		Corridor	5
C790-A	-	2		1		2	20	FS	1	7		Corridor	2
C706-A	-	2		1		2	20	FS	1	7		Corridor	2
C706-B	90S		2				19A	FS	1	7		Corridor	5
C721-A	-	2		1		2	23B	FS	1	7		Corridor	2
7050-A	90S		2				18	FS	1	7		Elevator Lobby	5
7060-A	90S		2				18	FS	1	7		Elevator Lobby	5
7105-A	20S	1				1	06	FS	1	7		Soiled Workroom	8
7217-A	20S	1				1	07	FS	1	7		Soiled Workroom	8
7305-A	20S	1				1	06	FS	1	7		Soiled Workroom	8
7900-A	60S	1					2	FS	1	7		Elevator Lobby	11
7902-A	20S	1				1	02	FS	1	7		Toilet Public	8
S802A-A	90S	1		1	1		106	FS	1	8	Delayed Egress	Vestibule Stair #2	9
S802A-B	20S	1		1			6A	FS	1	8		Stair #2	1
S804A-A	90S	1		1	1		106	FS	1	8	Delayed Egress	Vestibule Stair #4	9
S804A-B	20S	1		1			6A	FS	1	8		Stair #4	1
C814-B	90S		2				19	FS	1	8		Corridor	5
C815-A	20S		2				17	FS	1	8		Corridor/Family Area	5
C835-A	90S		2				19	FS	1	8		Corridor	5
8367-A	S		2				17	FS	1	8		Corridor/Family Area	5
C830A-A	45S	2		1		2	20	FS	1	8		Corridor	2
C818-A	45S	2		1		2	20	FS	1	8		Corridor	2
C890-A	-	2		1		2	20	FS	1	8		Corridor	2
C890-B	-	2		1		2	20	FS	1	8		Corridor	2
8105-A	20S	1				1	06	FS	1	8		Soiled Workroom	8
8305-A	20S	1				1	06	FS	1	8		Soiled Workroom	8
8900-A	60S	1					2	FS	1	8		Elevator Lobby	11
8902-A	20S	1				1	02	FS	1	8		Toilet Public	8
S902A-B	20S	1		1			6A	FS	1	9		Stair #2	1
S904A-B	20S	1		1			6A	FS	1	9		Stair #4	1
C914-A	-		2				17	FS	1	9		Corridor	5
C914-B	90S		2				19	FS	1	9		Corridor	5
C935-A	90S		2				19	FS	1	9		Corridor	5
9167-A	20S		2				17	FS	1	9		Family Area	5
9367-A	20S		2				17	FS	1	9		Family Area	5
C910-A	-	2				2	22	FS	1	9		Corridor	3
C990-A	-		2				17	FS	1	9		Corridor	5
C906-A	-	2		1		2	20	FS	1	9		Corridor	2

SCOPE OF WORK

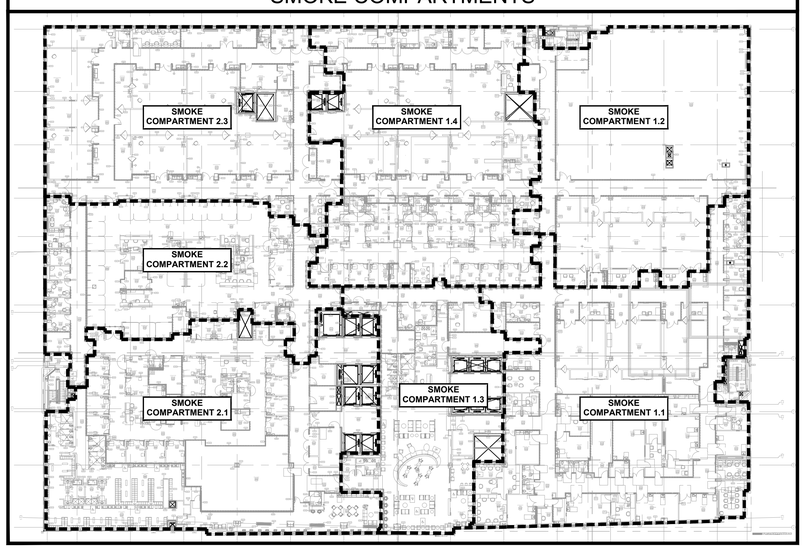
OPENING NUMBER	FIRE RATING (MINUTES)	SELF CLOSING	AUTOMATIC CLOSING - MHO	SECURITY DEVICE (CR)	DELAYED EGRESS	AUTOMATIC DOOORS	HW GROUP	FAIL SAFE (FS) OR FAIL SECURE (FSE)	TIE INTO FA	LEVEL / FLOOR	COMMENTS	ROOM	FIRE ALARM DESCRIPTION #
C917-A	-	2			2	2	22	FS	1	9		Corridor	3
C906A-A	45S	2		1	2	2	20	FS	1	9		Corridor	2
C905-A	90S		2				19	FS	1	9		Corridor	5
C905-B	-	2		1	2	2	20	FS	1	9		Corridor	2
9050-A	90S		2				18	FS	1	9		Elevator Lobby	5
9060-A	90S		2				18	FS	1	9		Elevator Lobby	5
9105-A	20S	1				1	06	FS	1	9		Soiled Workroom	8
9305-A	20S	1				1	06	FS	1	9		Soiled Workroom	8
9900-A	60S	1					2	FS	1	9		Elevator Lobby	11
9902-A	20S	1				1	02	FS	1	9		Toilet Public	8
S1002A-B	20S	1		1			6A	FS	1	10		Stair #2	1
S1004A-B	20S	1		1			6A	FS	1	10		Stair #4	1
C1014-A	-		2				17	FS	1	10		Corridor	5
C1014-B	90S		2				19	FS	1	10		Corridor	5
C1015-A	-	2		1	2	2	20	FS	1	10		Corridor	2
C1035-A	90S		2				19	FS	1	10		Corridor	5
10367-A	20S		2				17	FS	1	10		Family Area	5
C1010-A	-	2			2	2	22	FS	1	10		Corridor	3
C1090-A	-		2				17	FS	1	10		Corridor	5
C1005-A	-	2		1	2	2	20	FS	1	10		Corridor	2
C1017-A	-	2			2	2	22	FS	1	10		Corridor	3
C1005-A	90S		2				19	FS	1	10		Corridor	5
10040-A	45S	2		1	2	2	20	FS	1	10		Hallway	3
10050-A	90S		2				18	FS	1	10		Elevator Lobby	5
10060-A	90S		2				18	FS	1	10		Elevator Lobby	5
10105-A	20S	1				1	06	FS	1	10		Soiled Workroom	8
10305-A	20S	1				1	06	FS	1	10		Soiled Workroom	8
10900-A	60S	1					2	FS	1	10		Elevator Lobby	11
10902-A	20S	1				1	02	FS	1	10		Toilet Public	8
S1102A-B	20S	1		1			6A	FS	1	11		Stair #2	1
S1104A-B	20S	1		1			6A	FS	1	11		Stair #4	1
C1191-A	90S	2		1	1	2	23B	FS	1	11		Corridor



LEVEL 4, OVERALL - DEVICE LAYOUT

10' 0 5' 10' 20'
SCALE : 1/16" = 1'-0"

SMOKE COMPARTMENTS



120V CIRCUIT BREAKER SCHEDULE

LEVEL	PANEL	CIRCUIT	LOAD VA	LOAD SERVED	LOCATION
4	LLD3G1	4	750	BPS B27, B26 & B25	ELEC RM. 4810
		5	750	BPS B24, B23 & B22	
		3	720	NODE 08	

OCCUPANCY CLASS

I-2
FLOOR CONFIGURED FOR DELAYED EGRESS

FOR REFERENCE ONLY

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SUBSCRIPTS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
EA	EXHAUST AIR	C	CEILING
RA	RETURN AIR	WP	WEATHERPROOF
SA	SUPPLY AIR	UIO	UIO MOUNT
P	PENDANT MOUNT		

ADDRESS CIRCUIT LEGEND

LRM CARD# — PANEL# — DEVICE ADDRESS#
PPCCDDDD

STROBE CIRCUIT LEGEND

STROBE — POWER SUPPLY # — CIRCUIT # — DEVICE #
S X X-#
("N" DESIGNATES NODE)

AUDIO/PHONE JACK CIRCUIT LEGEND

SIGNAL TYPE (A, F) — CIRCUIT # — DEVICE #
XX1-#
A = AUDIO (SPEAKER)
F = FIREFIGHTER'S PHONE JACK

FIRE/SMOKE DAMPER DESIGNATION

LEVEL — AHU — FSD NUMBER
FSD-XX.XX.XX
XXXXXXXX — INPUT/OUTPUT MODULE ADDRESS

DOOR TAG DESIGNATION

DOOR TYPE — DOOR NUMBER
NUMBER SEE SHEET FA.0.04
1 | 7.200-A

GENERAL SHEET NOTE

1. THE FIRE ALARM SYSTEM HAS ALSO BEEN DESIGNED TO BE USED AS THE HOSPITAL PAGING SYSTEM. ANY FIRE ALARM MESSAGE WILL OVERRIDE A PAGING ANNOUNCEMENT.
2. FIRE ALARM WIRING WILL NOT BE INSTALLED IN CONDUIT UNLESS WIRING TO DEVICES INITIATING / INTERFACING WITH STAIR PRESSURIZATION OR UNLESS OTHERWISE NOTED.
3. PENETRATIONS THRU WALLS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. FIRE STOP MATERIAL SHALL BE A UL LISTED ASSEMBLY INSTALLED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS. SEE DRAWING A9.0.01 AND "THROUGH PENETRATIONS FIRESTOP" BINDER FOR INFORMATION AND DETAILS

KEYED SHEET NOTES

1. CONTROL RELAY FOR ELEVATOR RECALL
2. CONTROL RELAY FOR ELEVATOR ALTERNATE RECALL
3. CONTROL RELAY FOR FIREMANS HAT SIGNAL
4. CONTROL RELAY FOR ELEVATOR POWER SHUNT TRIP
5. MONITOR MODULE FOR SHUNT TRIP POWER SUPERVISION. FIELD VERIFY LOCATION
6. CONTROL RELAY FOR MAGNETIC DOOR HOLDER CONTROL. FIELD VERIFY LOCATION
7. CONTROL RELAY FOR SECURITY INTERFACE ACTIVATED VIA YELLOW PULL STATION IN FCC. SEE DOOR SCHEDULE ON SHEET FA.0.03 FOR MORE INFORMATION AND SEE SECURITY DRAWINGS FOR WIRING DIAGRAM.
8. CONTROL RELAY FOR ELEVATOR SMOKE GUARD CONTROL. FIELD VERIFY LOCATION
9. NOT USED
10. CONTROL RELAY FOR FAN SHUTDOWN
11. INPUT/OUTPUT MODULE FOR FIRE/SMOKE DAMPER CONTROL AND STATUS
12. INPUT/OUTPUT MODULE FOR FAN ON STATUS AND FAN SHUTDOWN
13. INPUT/OUTPUT MODULE FOR FAN OFF STATUS AND FAN OVERRIDE
14. MONITOR MODULES FOR EMERGENCY GENERATOR SUPERVISION. INCLUDES LOW FUEL, RUNNING, TROUBLE & FUEL LEAK
15. MONITOR MODULES FOR FIRE PUMP SUPERVISION. INCLUDES RUNNING, TROUBLE & PHASE REVERSAL
16. MONITOR MODULE FOR FAN POWER SUPERVISION. MODULE WILL MONITOR OPEN CONTACTS AT LAST DISCONNECT (CONTACTS PROVIDED BY OTHERS).
17. FIRE/SMOKE DAMPER OR FAN OPERATES VIA AREA SMOKE DETECTION.
18. AIRFLOW FOR DUCT SMOKE DETECTOR SHALL MEET MANUFACTURE'S SUGGESTED SPECIFICATIONS.
19. MOUNT PLENUM MOUNTED SMOKE DETECTOR WITHIN 12 INCHES OF DAMPER. SEE DETAIL FOR PENDANT MOUNT SMOKE DETECTOR INSTALLATION DETAIL ON SHEET FA.4.14.
20. MOUNT DUCT SMOKE DETECTOR UPSTREAM AND WITHIN 5' OF FIRE/SMOKE DAMPER. SEE MOUNTING DETAIL ON SHEET FA.4.14. AIRFLOW FOR DUCT SMOKE DETECTOR SHALL MEET MANUFACTURE'S SUGGESTED SPECIFICATIONS.
21. MOUNT SMOKE DETECTOR AS SHOWN IN THE "SMOKE DETECTOR FOR DOOR CONTROL INSTALLATION DETAIL" ON SHEET FA.4.14.
22. HEAT DETECTOR IN ELEVATOR ELEVATOR MACHINE ROOM/ELEVATOR SHAFT TO BE LOCATED 2 FEET FROM SPRINKLER HEAD.
23. MONITOR MODULE FOR FIREMAN'S AIR FILLING STATION LOW AIR PRESSURE SUPERVISION.
24. DEVICES EXPOSED TO THE OUTSIDE ENVIRONMENT SHALL BE MOUNTED IN A WEATHER PROOF ENCLOSURE.
25. SMOKE DETECTOR FOR STAIR PRESSURIZATION FAN WIRING MUST BE IN CONDUIT. SEE RISER DIAGRAM(S) FOR WIRING.
26. MOUNT STROBE OR COMBINATION AUDIBLE/STROBE IN SLEEPING AREA WITHIN 16 FEET OF THE PILLOW PER NFPA 72, 2007, 7.5.4.6.3.
27. MONITOR MODULE FOR WATER TANK HIGH/LOW SUPERVISION. FIELD VERIFY LOCATION.
28. MONITOR MODULE FOR ANSUL SYSTEM ALARM AND TROUBLE SUPERVISION.
29. SEE RISER DIAGRAM FOR WIRE CONNECTIONS.
30. RELAY FOR DOOR CONTROL. SEE DOOR SCHEDULE ON SHEET FA-0.03 FOR MORE INFORMATION.
31.
32. STAIR DOOR LOCK CONTROLLED VIA CONTROL RELAY IN TECHNOLOGY ROOM.
33. CONTROL RELAY FOR AV SYSTEM SHUTDOWN.
34. MONITOR MODULE FOR RATE COMPENSATION HEAT DETECTOR SUPERVISION. FIELD VERIFY LOCATION.
35. SEE DETAIL J ON SHEET FA.4.14 FOR UL LISTING ON RAULAND RESPONDER 6 NURSE CALL SYSTEM. SEE WIRE DESIGNATION "DM" ON THE CABLE LEGEND FOR THE WIRE TYPE FROM THE RELAY BASE SMOKE DETECTOR TO THE DOME LIGHT.
36. TOP OF HOISTWAY SMOKE DETECTOR. AN ACCESSIBLE UL LISTED 90 MINUTE FIRE RATED HATCH / ACCESS DOOR TO BE PROVIDED (BY OTHERS). SEE "ELEVATOR HOISTWAY SMOKE DETECTOR INSTALLATION DETAIL" ON SHEET FA4.14, DETAIL L
37. MONITOR MODULE FOR YELLOW STAIRWELL LOCK RELEASE STATION. SEE DOOR SCHEDULE FOR ADDITIONAL INFORMATION.
38. RELAY MODULE FOR LIGHTING CONTROL
39. DELAY EGRESS DOOR

DEVICE LEGEND

SYMBOL	DESCRIPTION
FACP	FIRE ALARM CONTROL PANEL
NODE	FIRE ALARM NODE
BATT	BATTERY CABINET
GFAA	GRAPHIC ANNUNCIATOR
GFCP	GRAPHIC FAN CONTROL PANEL
FAA	REMOTE ANNUNCIATOR
PRNT	PRINTER
UIO	UNIVERSAL INPUT/OUTPUT MODULE
UIO/R	UNIVERSAL INPUT/OUTPUT MODULE W/6 RISER INPUTS
UIO/2R	UNIVERSAL INPUT/OUTPUT MODULE W/2RISER INPUTS
CAB	MULTI-FUNCTION FIRE CABINET
RCC	UIO CABINET
DI	DUAL INPUT MODULE
SI	SINGLE INPUT MODULE
SO/S	SYNCHRONIZATION OUTPUT MODULE
SR	ADDRESSABLE CONTROL RELAY
SR/H	ADDRESSABLE CONTROL RELAY (HIGH POWER)
IO	ADDRESSABLE INPUT/OUTPUT MODULE
P	ADDRESSABLE DOUBLE ACTION PULL STATION
?	ADDRESSABLE PHOTO SMOKE DETECTOR
?/DMP	ADDRESSABLE PHOTO SMOKE DETECTOR WITH DUCT MOUNTING PLATE
?/RB	ADDRESSABLE PHOTO SMOKE DETECTOR WITH RELAY BASE
	ADDRESSABLE HEAT DETECTOR
/F	ADDRESSABLE FIXED TEMP. HEAT DETECTOR
/RC	RATE COMPENSATION HEAT DETECTOR
?/—	DUCT SMOKE DETECTOR
R	INTERPOSING RELAY
BPS6A	BOOSTER POWER SUPPLY
	SPEAKER - CEILING
	SPEAKER - WALL
XXCD	STROBE - CEILING (XX DENOTES CANDELA)
XXCD	STROBE - WALL (XX DENOTES CANDELA)
XXCD	SPEAKER/STROBE - CEILING (XX DENOTES CANDELA)
XXCD	SPEAKER/STROBE - WALL (XX DENOTES CANDELA)
	FIREFIGHTER'S PHONE JACK
PHCAB	PHONE STORAGE CABINET
ATN	ATTENUATOR
FATC	FIRE ALARM TERMINAL CABINET
ANSUL	ANSUL HOOD EXTINGUISHING SYSTEM
PACP	PRE-ACTION CONTROL PANEL
FM200	FM-200 CONTROL PANEL
	DOOR HOLDER
IV	ISOLATION VALVE
VS	VALVE TAMPER SWITCH
WF	WATER FLOW SWITCH
DR	STAIRWELL LOCK RELEASE STATION
	SPRINKLER GONG BELL
SD	FIRE/SMOKE DAMPER
NC	NURSE CALL DOME LIGHT
	END OF LINE RESISTOR
(E)	EXISTING
(N)	NEW
(RL)	EXISTING RELOCATED
JB	JUNCTION BOX (BY OTHERS)

CABLE LEGEND

SEE SHEET FA.0.02 FOR PART NUMBER AND CSFM LISTING

A AA SEE NOTE 2	DATA CABLE (PLENUM) DATA CABLE (NON-PLENUM) #16 AWG TWISTED PAIR 3,900 FEET MAXIMUM DISTANCE .33µF MAXIMUM CAPACITANCE 79 OHMS MAXIMUM RESISTANCE MAXIMUM OF 124 T-TAPS PER LOOP SEE GENERAL NOTE # 21
AD SEE NOTE 1 NOTE 2	AUDIO DATA RISER CABLE #16 AWG TWISTED SHIELDED PAIR NO T-TAPS ALLOWED
B SEE NOTE 2	NOTIFICATION CABLE #12 AWG NO T-TAPS ALLOWED
DM	DOME LIGHT #16 AWG TWISTED PAIR NO T-TAPS ALLOWED
F	FIREFIGHTER'S PHONE TERMINATION CABLE #18 AWG TWISTED SHIELDED PAIR NO T-TAPS ALLOWED
FR	FIREFIGHTER'S PHONE RISER CABLE #16 AWG TWISTED SHIELDED PAIR NO T-TAPS ALLOWED
M	MISC MAKE-UP CABLE #16 AWG TWISTED PAIR NO T-TAPS ALLOWED
ND SEE NOTE 1	NETWORK DATA RISER CABLE #16 AWG TWISTED PAIR NO T-TAPS ALLOWED
P	24V ACDC POWER CABLE #12 AWG T-TAPS ALLOWED
PR	RS-232 PRINTER CABLE 4 #22 AWG TWISTED SHIELDED 50 FEET MAXIMUM LENGTH NO T-TAPS ALLOWED
RA SEE NOTE 2	REMOTE MIC AUDIO #14 AWG TWISTED SHIELDED PAIR NO T-TAPS ALLOWED
RK	REMOTE MIC KEY #18 AWG TWISTED PAIR NO T-TAPS ALLOWED
S SEE NOTE 2	SPEAKER TERMINATION CABLE #14 AWG TWISTED SHIELDED PAIR NO T-TAPS ALLOWED
SR SEE NOTE 2	SPEAKER RISER CABLE #14 AWG TWISTED SHIELDED PAIR NO T-TAPS ALLOWED

NOTE
1. OUTGOING AND RETURN CABLES TO BE ROUTED SEPARATELY. RECOMMENDED MINIMUM SEPARATION BETWEEN CABLES IS 1 FT. FOR VERTICAL AND 4 FT. FOR HORIZONTAL. ALL AUDIO AND NETWORK DATA WIRING SHALL BE IN A 2-HOUR ENCLOSURE OR 2-HOUR CABLE ASSEMBLY MAY BE REQUIRED AS SHOWN PER NFPA 72 2007, SECTION 6.4.2.2.2.
2. PER NFPA 72, 2007, SECTION 6.8.10.4.2. ALL CIRCUITS NECESSARY FOR THE OPERATION OF THE NOTIFICATION APPLIANCES SHALL BE PROTECTED UNTIL THEY ENTER THE EVACUATION SIGNALING ZONE THAT THEY SERVE. ANY OF THE FOLLOWING METHODS SHALL BE CONSIDERED ACCEPTABLE AS MEETING THE REQUIREMENTS OF THIS SUBSECTION.
   (1) A 2-HOUR RATED CIRCUIT INTEGRITY (CI) CABLE
   (2) A 2-HOUR FIRE RATED CABLE SYSTEM (ELECTRICAL CIRCUIT PROTECTIVE SYSTEM)
   (3) A 2-HOUR RATED ENCLOSURE.
   (4) PERFORMANCE ALTERNATIVES APPROVED BY AUTHORITY HAVING JURISDICTION.

WALL LEGEND

	NON-RATED PARTITION
	1-HOUR RATED PARTITION
	2-HOUR RATED PARTITION
	4-HOUR RATED BUILDING SEPERATION WALL
S	1-HOUR SMOKE WALL
SB	1-HOUR SMOKE BARRIER
X-SB	2-HOUR HORIZONTAL EXIT SMOKE BARRIER

Architect
SKA SMITH-KARNG ARCHITECTURE
800 Haight Street
San Francisco, CA 94117
Office: 415.552.3600

Owner
Sutter Health
We Plus You
CALIFORNIA PACIFIC MEDICAL CENTER
VAN NESS CAMPUS
1101 VAN NESS AVENUE
SAN FRANCISCO, CA 94109

Fire Alarm Vendor
convergint
5860 W Las Positas Blvd Ste 7, Pleasanton, CA. 94588
Phone: (510) 300-2800 Fax: (925) 225-1101
C10 License No: 986407

SKA Project Number
2219

HCAI Number
S221127-38-00

HCAI seal/signature
REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF 7-C4, CCR
APPROVED
Department of Health Care Access and Information
FACILITIES DEVELOPMENT DIVISION
9/27/2022, 7:48:26 AM
S221127-38-00
Pedar Remme

Seal/Signature
LICENSED ARCHITECT
STATE OF CALIFORNIA

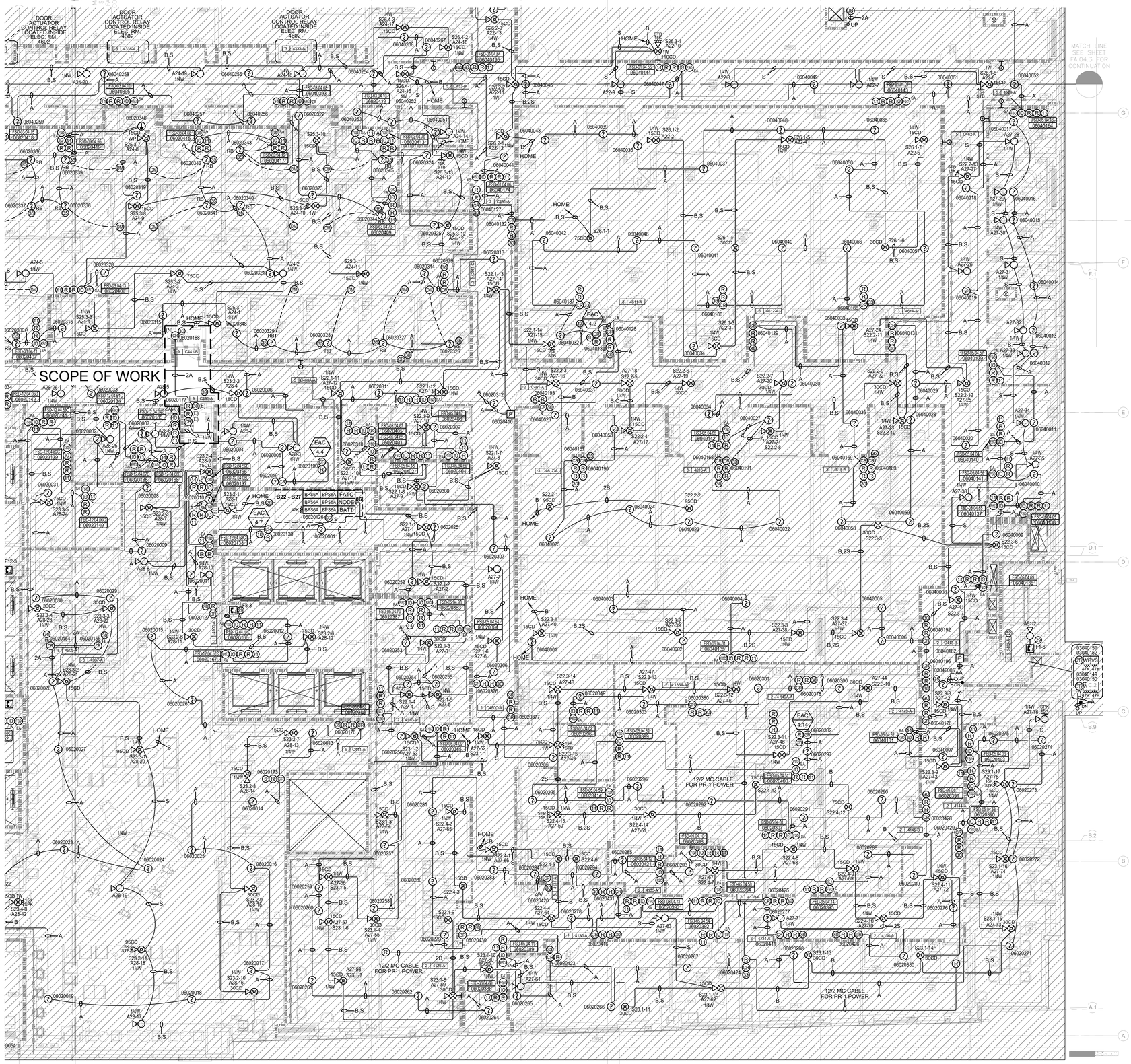
Issued for
HCAI PLAN REVIEW

Drawn by KWS
Checked by JS
Project Name
4TH FLOOR ACU
AUTOMATIC DOOR
OPERATORS

Sheet Title
FIRE ALARM PLAN
LEVEL 4
OVERALL

Date 07/06/2022
Scale 1/16" = 1'-0"
Sheet Number
FA.04.0

30 X 42



LEVEL 4, ZONE 1 - DEVICE LAYOUT

5' 0 5' 10' 20'

SCALE : 1/8" = 1'-0"

NOTE: ALL FIRE/SMOKE DAMPERS OPERATE VIA AREA SMOKE DETECTION. DOOR HOLDERS RELEASE UPON ANY ALARM EVENT ON A PER FLOOR BASIS.

ALL CHANGES TO THE INFORMATION IN THIS DOCUMENT MUST BE APPROVED BY RFI OR ACD AND BY THE SYSTEM DESIGNER (CONVERGINT TECHNOLOGIES) PRIOR TO MAKING CHANGES IN THE FIELD.

SUBSCRIPTS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
EA	EXHAUST AIR	C	CEILING
RA	RETURN AIR	WP	WEATHERPROOF
SA	SUPPLY AIR	U/O	U/O MOUNT
P	PENDANT MOUNT		

ADDRESS CIRCUIT LEGEND

LRM CARD# PANEL# — DEVICE ADDRESS#

PPCCDDDD

STROBE CIRCUIT LEGEND

STROBE — POWER SUPPLY # CIRCUIT # DEVICE #

S.X.X-#

(*N* DESIGNATES NODE)

AUDIO/PHONE JACK CIRCUIT LEGEND

SIGNAL TYPE (A, F) — CIRCUIT # — DEVICE #

XX1-#

A = AUDIO (SPEAKER)
F = FIREFIGHTER'S PHONE JACK

FIRE/SMOKE DAMPER DESIGNATION

LEVEL AHU — FSD NUMBER

FSD-XX.XX.XX

XXXXXXXX — INPUT/OUTPUT MODULE ADDRESS

DOOR TAG DESIGNATION

DOOR TYPE NUMBER SEE SHEET FA.0.04 — DOOR NUMBER

1 7.200-A

GENERAL SHEET NOTE

1. THE FIRE ALARM SYSTEM HAS ALSO BEEN DESIGNED TO BE USED AS THE HOSPITAL PAGING SYSTEM. ANY FIRE ALARM MESSAGE WILL OVERRIDE A PAGING ANNOUNCEMENT.
2. FIRE ALARM WIRING WILL NOT BE INSTALLED IN CONDUIT UNLESS WIRING TO DEVICES INITIATING / INTERFACING WITH STAIR PRESSURIZATION OR UNLESS OTHERWISE NOTED.
3. PENETRATIONS THRU WALLS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. FIRE STOP MATERIAL SHALL BE A UL LISTED ASSEMBLY INSTALLED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS. SEE DRAWING A9.0.01 AND "THROUGH PENETRATIONS FIRESTOP" BINDER FOR INFORMATION AND DETAILS.

KEYED SHEET NOTES

1. CONTROL RELAY FOR ELEVATOR RECALL.
2. CONTROL RELAY FOR ELEVATOR ALTERNATE RECALL.
3. CONTROL RELAY FOR FIREMANS HAT SIGNAL.
4. CONTROL RELAY FOR ELEVATOR POWER SHUNT TRIP.
5. MONITOR MODULE FOR SHUNT TRIP POWER SUPERVISION. FIELD VERIFY LOCATION.
6. CONTROL RELAY FOR MAGNETIC DOOR HOLDER CONTROL. FIELD VERIFY LOCATION.
7. CONTROL RELAY FOR SECURITY INTERFACE ACTIVATED VIA YELLOW PULL STATION IN FCC. SEE DOOR SCHEDULE ON SHEET FA.0.03 FOR MORE INFORMATION AND SEE SECURITY DRAWINGS FOR WIRING DIAGRAM.
8. CONTROL RELAY FOR ELEVATOR SMOKE GUARD CONTROL. FIELD VERIFY LOCATION.
9. NOT USED.
10. CONTROL RELAY FOR FAN SHUTDOWN.
11. INPUT/OUTPUT MODULE FOR FIRE/SMOKE DAMPER CONTROL AND STATUS.
12. INPUT/OUTPUT MODULE FOR FAN ON STATUS AND FAN SHUTDOWN.
13. INPUT/OUTPUT MODULE FOR FOR FAN OFF STATUS AND FAN OVERRIDE.
14. MONITOR MODULES FOR EMERGENCY GENERATOR SUPERVISION. INCLUDES LOW FUEL, RUNNING, TROUBLE & FUEL LEAK.
15. MONITOR MODULES FOR FIRE PUMP SUPERVISION. INCLUDES RUNNING, TROUBLE & PHASE REVERSAL.
16. MONITOR MODULE FOR FAN POWER SUPERVISION. MODULE WILL MONITOR OPEN CONTACTS AT LAST DISCONNECT (CONTACTS PROVIDED BY OTHERS).
17. FIRE/SMOKE DAMPER OR FAN OPERATES VIA AREA SMOKE DETECTION.
18. AIRFLOW FOR DUCT SMOKE DETECTOR SHALL MEET MANUFACTURE'S SUGGESTED SPECIFICATIONS.
19. MOUNT PLENUM MOUNTED SMOKE DETECTOR WITHIN 12 INCHES OF DAMPER. SEE DETAIL FOR PENDANT MOUNT SMOKE DETECTOR INSTALLATION DETAIL ON SHEET FA.4.14.
20. MOUNT DUCT SMOKE DETECTOR UPSTREAM AND WITHIN 5' OF FIRE/SMOKE DAMPER. SEE MOUNTING DETAIL ON SHEET FA.4.14. AIRFLOW FOR DUCT SMOKE DETECTOR SHALL MEET MANUFACTURE'S SUGGESTED SPECIFICATIONS.
21. MOUNT SMOKE DETECTOR AS SHOWN IN THE "SMOKE DETECTOR FOR DOOR CONTROL INSTALLATION DETAIL" ON SHEET FA.4.14.
22. HEAT DETECTOR IN ELEVATOR ELEVATOR MACHINE ROOM/ELEVATOR SHAFT TO BE LOCATED 2 FEET FROM SPRINKLER HEAD.
23. MONITOR MODULE FOR FIREMANS AIR FAILING STATION LOW AIR PRESSURE SUPERVISION.
24. DEVICES EXPOSED TO THE OUTSIDE ENVIRONMENT SHALL BE MOUNTED IN A WEATHER PROOF ENCLOSURE.
25. SMOKE DETECTOR FOR STAIR PRESSURIZATION FAN WIRING MUST BE IN CONDUIT. SEE RISER DIAGRAM(S) FOR WIRING.
26. MOUNT STROBE OR COMBINATION AUDIBLE/STROBE IN SLEEPING AREA WITHIN 16 FEET OF THE PILLOW PER NFPA 72, 2007, 7.5.4.3.
27. MONITOR MODULE FOR WATER TANK HIGH/LOW SUPERVISION. FIELD VERIFY LOCATION.
28. MONITOR MODULE FOR ANSUL SYSTEM ALARM AND TROUBLE SUPERVISION.
29. SEE RISER DIAGRAM FOR WIRE CONNECTIONS.
30. RELAY FOR DOOR CONTROL. SEE DOOR SCHEDULE ON SHEET FA.0.03 FOR MORE INFORMATION.
31.
32. STAIR DOOR LOCK CONTROLLED VIA CONTROL RELAY IN TECHNOLOGY ROOM.
33. CONTROL RELAY FOR AV SYSTEM SHUTDOWN.
34. MONITOR MODULE FOR RATE COMPENSATION HEAT DETECTOR SUPERVISION. FIELD VERIFY LOCATION.
35. SEE DETAIL J ON SHEET FA.4.14 FOR UL LISTING ON RAUL AND RESPONDER & NURSE CALL SYSTEM. SEE WIRE DESIGNATION "QM" ON THE CABLE LEGEND FOR THE WIRE TYPE FROM THE RELAY BASE SMOKE DETECTOR TO THE DOME LIGHT.
36. TOP OF HOISTWAY SMOKE DETECTOR. AN ACCESSIBLE UL LISTED 90 MINUTE FIRE RATED HATCH / ACCESS DOOR TO BE PROVIDED (BY OTHERS). SEE "ELEVATOR HOISTWAY SMOKE DETECTOR INSTALLATION DETAIL" ON SHEET FA4.14, DETAIL L.
37. MONITOR MODULE FOR YELLOW STAIRWELL LOCK RELEASE STATION. SEE DOOR SCHEDULE FOR ADDITIONAL INFORMATION.
38. RELAY MODULE FOR LIGHTING CONTROL.
39. DELAY EGRESS DOOR.

DEVICE LEGEND

SYMBOL	DESCRIPTION
FACP	FIRE ALARM CONTROL PANEL
NODE	FIRE ALARM NODE
BATT	BATTERY CABINET
GFAA	GRAPHIC ANNUNCIATOR
GFCP	GRAPHIC FAN CONTROL PANEL
FAA	REMOTE ANNUNCIATOR
PRNT	PRINTER
UIO	UNIVERSAL INPUT/OUTPUT MODULE
UIO/R	UNIVERSAL INPUT/OUTPUT MODULE W/6 RISER INPUTS
UIO/2R	UNIVERSAL INPUT/OUTPUT MODULE W/2RISER INPUTS
CAB	MULTI-FUNCTION FIRE CABINET
RCC	UIO CABINET
EI	DUAL INPUT MODULE
EI	SINGLE INPUT MODULE
EO/S	SYNCHRONIZATION OUTPUT MODULE
ES	ADDRESSABLE CONTROL RELAY
ES/H	ADDRESSABLE CONTROL RELAY (HIGH POWER)
IO	ADDRESSABLE INPUT/OUTPUT MODULE
P	ADDRESSABLE DOUBLE ACTION PULL STATION
?	ADDRESSABLE PHOTO SMOKE DETECTOR
?/DMP	ADDRESSABLE PHOTO SMOKE DETECTOR WITH DUCT MOUNTING PLATE
?/RB	ADDRESSABLE PHOTO SMOKE DETECTOR WITH RELAY BASE
H	ADDRESSABLE HEAT DETECTOR
H/F	ADDRESSABLE FIXED TEMP. HEAT DETECTOR
H/RC	RATE COMPENSATION HEAT DETECTOR
?	DUCT SMOKE DETECTOR
R	INTERPOSING RELAY
BP56A	BOOSTER POWER SUPPLY
	SPEAKER - CEILING
	SPEAKER - WALL
XXCD	STROBE - CEILING (XX DENOTES CANDELA)
XXCD	STROBE - WALL (XX DENOTES CANDELA)
XXCD	SPEAKER/STROBE - CEILING (XX DENOTES CANDELA)
XXCD	SPEAKER/STROBE - WALL (XX DENOTES CANDELA)
	FIREFIGHTER'S PHONE JACK
PHCAB	PHONE STORAGE CABINET
ATN	ATTENUATOR
FATC	FIRE ALARM TERMINAL CABINET
ANSUL	ANSUL HOOD EXTINGUISHING SYSTEM
PACP	PRE-ACTION CONTROL PANEL
FM200	FM-200 CONTROL PANEL
	DOOR HOLDER
IV	ISOLATION VALVE
VS	VALVE TAMPER SWITCH
WF	WATER FLOW SWITCH
DR	STAIRWELL LOCK RELEASE STATION
	SPRINKLER GONG BELL
SD	FIRE/SMOKE DAMPER
DM	NURSE CALL DOME LIGHT
	END OF LINE RESISTOR
(E)	EXISTING
(N)	NEW
(RL)	EXISTING RELOCATED
JB	JUNCTION BOX (BY OTHERS)

CABLE LEGEND

SEE SHEET FA.0.02 FOR PART NUMBER AND CSFM LISTING

A AA SEE NOTE 2	DATA CABLE (PLENUM) DATA CABLE (NON-PLENUM) #16 AWG TWISTED PAIR 3,900 FEET MAXIMUM DISTANCE 33µF MAXIMUM CAPACITANCE 79 OHMS MAXIMUM RESISTANCE MAXIMUM OF 124 T-TAPS PER LOOP SEE GENERAL NOTE # 21
AD SEE NOTE 1	AUDIO DATA RISER CABLE #16 AWG TWISTED SHIELDED PAIR NO T-TAPS ALLOWED
B SEE NOTE 2	NOTIFICATION CABLE #12 AWG NO T-TAPS ALLOWED
DM	DOME LIGHT #16 AWG TWISTED PAIR NO T-TAPS ALLOWED
F	FIREFIGHTER'S PHONE TERMINATION CABLE #16 AWG TWISTED SHIELDED PAIR NO T-TAPS ALLOWED
FR	FIREFIGHTER'S PHONE RISER CABLE #16 AWG TWISTED SHIELDED PAIR NO T-TAPS ALLOWED
M	MISC MAKE-UP CABLE #16 AWG TWISTED PAIR NO T-TAPS ALLOWED
ND SEE NOTE 1	NETWORK DATA RISER CABLE #16 AWG TWISTED PAIR NO T-TAPS ALLOWED
P	24V ACIDC POWER CABLE #12 AWG T-TAPS ALLOWED
PR	RS-232 PRINTER CABLE 4 #22 AWG TWISTED SHIELDED 50 FEET MAXIMUM LENGTH NO T-TAPS ALLOWED
RA SEE NOTE 3	REMOTE MIC AUDIO #14 AWG TWISTED SHIELDED PAIR NO T-TAPS ALLOWED
RK	REMOTE MIC KEY #16 AWG TWISTED PAIR NO T-TAPS ALLOWED
S SEE NOTE 2	SPEAKER TERMINATION CABLE #14 AWG TWISTED SHIELDED PAIR NO T-TAPS ALLOWED
SR SEE NOTE 3	SPEAKER RISER CABLE #14 AWG TWISTED SHIELDED PAIR NO T-TAPS ALLOWED

NOTE

1. OUTGOING AND RETURN CABLES TO BE ROUTED SEPARATELY. RECOMMENDED MINIMUM SEPARATION BETWEEN CABLES IS 1 FT. FOR VERTICAL AND 4 FT. FOR HORIZONTAL. ALL AUDIO AND NETWORK DATA WIRING SHALL BE IN A 2-HOUR ENCLOSURE OR 2-HOUR CABLE ASSEMBLY MAY BE REQUIRED AS SHOWN PER NFPA 72, 2007, SECTION 6.4.2.2.2.
2. PER NFPA 72, 2007, SECTION 6.8.10.4.2. ALL CIRCUITS NECESSARY FOR THE OPERATION OF THE NOTIFICATION APPLIANCES SHALL BE PROTECTED UNTIL THEY ENTER THE EVACUATION SIGNALING ZONE THAT THEY SERVE. ANY OF THE FOLLOWING METHODS SHALL BE CONSIDERED ACCEPTABLE AS MEETING THE REQUIREMENTS OF THIS SUBSECTION.
   (1) A 2-HOUR RATED CIRCUIT INTEGRITY (CI) CABLE.
   (2) A 2-HOUR FIRE RATED CABLE SYSTEM (ELECTRICAL CIRCUIT PROTECTIVE SYSTEM)
   (3) A 2-HOUR RATED ENCLOSURE.
   (4) PERFORMANCE ALTERNATIVES APPROVED BY AUTHORITY HAVING JURISDICTION.

WALL LEGEND

	NON-RATED PARTITION
	1-HOUR RATED PARTITION
	2-HOUR RATED PARTITION
	4-HOUR RATED BUILDING SEPERATION WALL
S	1-HOUR SMOKE WALL
SB	1-HOUR SMOKE BARRIER
X-SB	2-HOUR HORIZONTAL EXIT SMOKE BARRIER

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SKA Project Number

2219

HCAI Number

S221127-38-00

HCAI seal/signature

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF 7 CCR
APPROVED
Department of Health Care Access and Information
FACILITIES DEVELOPMENT DIVISION
9/27/2022, 7:48:26 AM
S221127-38-00
Pedar Bemme

Seal/Signature

LICENSED ARCHITECT — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

Date Signed: 7.13.2022

Issued for

HCAI PLAN REVIEW

Drawn by	KWS
Checked by	JS

Project Name

4TH FLOOR ACU AUTOMATIC DOOR OPERATORS

Sheet Title

FIRE ALARM PLAN LEVEL 4 ZONE 1

Date	07/06/2022
Scale	1/8" = 1'-0"

Sheet Number

FA.04.1

30 X 42

DEVICE LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
FACP	FIRE ALARM CONTROL PANEL	DMP	ADDRESSABLE PHOTO SMOKE DETECTOR WITH DUCT MOUNTING PLATE	PACP	PRE-ACTION CONTROL PANEL
NODE	FIRE ALARM NODE	RB	ADDRESSABLE PHOTO SMOKE DETECTOR WITH RELAY BASE	FM200	FM-200 CONTROL PANEL
BATT	BATTERY CABINET		ADDRESSABLE HEAT DETECTOR		DOOR HOLDER
GFAA	GRAPHIC ANNUNCIATOR	F	ADDRESSABLE FIXED TEMP. HEAT DETECTOR	IV	ISOLATION VALVE
GFCP	GRAPHIC FAN CONTROL PANEL	RC	RATE COMPENSATION HEAT DETECTOR	VS	VALVE TAMPER SWITCH
FAA	REMOTE ANNUNCIATOR		DUCT SMOKE DETECTOR	WF	WATER FLOW SWITCH
PRNT	PRINTER	R	INTERPOSING RELAY	DR	STAIRWELL LOCK RELEASE STATION
AIO	UNIVERSAL INPUT/OUTPUT MODULE	BPS6A	BOOSTER POWER SUPPLY		SPRINKLER GONG BELL
AIO 6R	UNIVERSAL INPUT/OUTPUT MODULE W/6 RISER INPUTS		SPEAKER - CEILING	SD	FIRE/SMOKE DAMPER
AIO 2R	UNIVERSAL INPUT/OUTPUT MODULE W/2RISER INPUTS		SPEAKER - WALL	DN	NURSE CALL DOME LIGHT
CAB	MULTI-FUNCTION FIRE CABINET	XXCD	STROBE - CEILING (XX DENOTES CANDELA)		END OF LINE RESISTOR
RCC	UIO CABINET	XXCD	STROBE - WALL (XX DENOTES CANDELA)	(E)	EXISTING
E	DUAL INPUT MODULE	XXCD	SPEAKER/STROBE - CEILING (XX DENOTES CANDELA)	(N)	NEW
E	SINGLE INPUT MODULE	XXCD	SPEAKER/STROBE - WALL (XX DENOTES CANDELA)	(RL)	EXISTING RELOCATED
S	SYNCHRONIZATION OUTPUT MODULE		FIREFIGHTER'S PHONE JACK		
CR	ADDRESSABLE CONTROL RELAY	PHCAB	PHONE STORAGE CABINET		
IO	ADDRESSABLE INPUT/OUTPUT MODULE	ATN	ATTENUATOR		
P	ADDRESSABLE DOUBLE ACTION PULL STATION	FATC	FIRE ALARM TERMINAL CABINET		
	ADDRESSABLE PHOTO SMOKE DETECTOR	ANSUL	ANSUL HOOD EXTINGUISHING SYSTEM		

FIRE/SMOKE DAMPER DESIGNATION

LEVEL
AHU
FSD NUMBER
FSD-XX XXX XX
XXXXXXXX
INPUT/OUTPUT MODULE ADDRESS

ADDRESS CIRCUIT LEGEND

LRM CARD#
PANEL#
DEVICE ADDRESS#
PPCCDDDD

STROBE CIRCUIT LEGEND

STROBE
POWER SUPPLY # CIRCUIT # DEVICE #
SX X-#
("N" DESIGNATES NODE)

AUDIO/PHONE JACK CIRCUIT LEGEND

SIGNAL TYPE (A, F)
CIRCUIT #
DEVICE #
XX1-#

A = AUDIO (SPEAKER)
F = FIREFIGHTER'S PHONE JACK

SUBSCRIPTS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
EA	EXHAUST AIR	C	CEILING
RA	RETURN AIR	WP	WEATHERPROOF
SA	SUPPLY AIR	UIO	UIO MOUNT
P	PENDANT MOUNT		

CABLE LEGEND

SEE SHEET FA.0.02 FOR PART NUMBER AND CSFM LISTING

A, AA (SEE NOTE 2)	DATA CABLE (PLENUM) DATA CABLE (NON-PLENUM) #16 AWG TWISTED PAIR 3,900 FEET MAXIMUM DISTANCE 33pF MAXIMUM CAPACITANCE 79 OHMS MAXIMUM RESISTANCE MAXIMUM OF 124 T-TAPS PER LOOP SEE GENERAL NOTE # 21	PR	RS-232 PRINTER CABLE #.#22 AWG TWISTED SHIELDED 50 FEET MAXIMUM LENGTH NO T-TAPS ALLOWED
AD (SEE NOTE 2, NOTE 3)	AUDIO DATA RISER CABLE #16 AWG TWISTED SHIELDED PAIR NO T-TAPS ALLOWED	RA (SEE NOTE 2)	REMOTE MIC AUDIO #14 AWG TWISTED SHIELDED PAIR NO T-TAPS ALLOWED
B (SEE NOTE 2)	NOTIFICATION CABLE #12 AWG NO T-TAPS ALLOWED	RK	REMOTE MIC KEY #16 AWG TWISTED PAIR NO T-TAPS ALLOWED
DM	DOME LIGHT #16 AWG TWISTED PAIR NO T-TAPS ALLOWED	S (SEE NOTE 2)	SPEAKER TERMINATION CABLE #14 AWG TWISTED SHIELDED PAIR NO T-TAPS ALLOWED
F	FIREFIGHTER'S PHONE TERMINATION CABLE #16 AWG TWISTED SHIELDED PAIR NO T-TAPS ALLOWED	SR (SEE NOTE 2)	SPEAKER RISER CABLE #14 AWG TWISTED SHIELDED PAIR NO T-TAPS ALLOWED
FR	FIREFIGHTER'S PHONE RISER CABLE #16 AWG TWISTED SHIELDED PAIR NO T-TAPS ALLOWED		
M	MIC MAKE-UP CABLE #18 AWG TWISTED PAIR NO T-TAPS ALLOWED		
ND (SEE NOTE 1)	NETWORK DATA RISER CABLE #16 AWG TWISTED PAIR NO T-TAPS ALLOWED		
P	24V AC/DC POWER CABLE #12 AWG T-TAPS ALLOWED		

NOTE

1. OUTGOING AND RETURN CABLES TO BE ROUTED SEPARATELY. RECOMMENDED MINIMUM SEPARATION BETWEEN CABLES IS 1 FT. FOR VERTICAL AND 4 FT. FOR HORIZONTAL. ALL AUDIO AND NETWORK DATA WIRING SHALL BE IN A 2-HOUR ENCLOSURE OR 2-HOUR CABLE ASSEMBLY MAY BE REQUIRED AS SHOWN PER NFPA 72 2007, SECTION 6.4.2.2.2.
2. PER NFPA 72, 2007, SECTION 4.9.10-4.2: ALL CIRCUITS NECESSARY FOR THE OPERATION OF THE NOTIFICATION APPLIANCES SHALL BE PROTECTED UNTIL THEY ENTER THE EVACUATION SIGNALING ZONE THAT THEY SERVE. ANY OF THE FOLLOWING METHODS SHALL BE CONSIDERED ACCEPTABLE AS MEETING THE REQUIREMENTS OF THIS SUBSECTION
   (1) A 2-HOUR RATED CIRCUIT INTEGRITY (CI) CABLE
   (2) A 2-HOUR FIRE RATED CABLE SYSTEM (ELECTRICAL CIRCUIT PROTECTIVE SYSTEM)
   (3) A 2-HOUR RATED ENCLOSURE
   (4) PERFORMANCE ALTERNATIVES APPROVED BY AUTHORITY HAVING JURISDICTION.

KEYED SHEET NOTES

1. CONTROL RELAY FOR ELEVATOR RECALL.
2. CONTROL RELAY FOR ELEVATOR ALTERNATE RECALL.
3. CONTROL RELAY FOR FIREMAN'S HAT SIGNAL.
4. CONTROL RELAY FOR ELEVATOR POWER SHUNT TRIP.
5. MONITOR MODULE FOR SHUNT TRIP POWER SUPERVISION. FIELD VERIFY LOCATION.
6. CONTROL RELAY FOR MAGNETIC DOOR HOLDER CONTROL. FIELD VERIFY LOCATION.
7. CONTROL RELAY FOR SECURITY INTERFACE ACTUATED VIA YELLOW PULL STATION IN FCC. SEE DOOR SCHEDULE ON SHEET FA.0.03 FOR MORE INFORMATION AND SEE SECURITY DRAWINGS FOR WIRING DIAGRAM.
8. CONTROL RELAY FOR ELEVATOR SMOKE GUARD CONTROL. FIELD VERIFY LOCATION.
9. NOT USED.
10. CONTROL RELAY FOR FAN SHUTDOWN.
11. INPUT/OUTPUT MODULE FOR FIRE/SMOKE DAMPER CONTROL AND STATUS.
12. INPUT/OUTPUT MODULE FOR FAN ON STATUS AND FAN SHUTDOWN.
13. INPUT/OUTPUT MODULE FOR FAN OFF STATUS AND FAN OVERRIDE.
14. MONITOR MODULES FOR EMERGENCY GENERATOR SUPERVISION. INCLUDES LOW FUEL, RUNNING, TROUBLE & FUEL LEAK.
15. MONITOR MODULES FOR PUMP SUPERVISION. INCLUDES RUNNING, TROUBLE & PHASE REVERSAL.
16. MONITOR MODULE 6 FOR FAN POWER SUPERVISION. MODULE WILL MONITOR OPEN CONTACTS AT LAST DISCONNECT (CONTACTS PROVIDED BY OTHERS).
17. FIRE/SMOKE DAMPER OR FAN OPERATES VIA AREA SMOKE DETECTION.
18. AIRFLOW FOR DUCT SMOKE DETECTOR SHALL MEET MANUFACTURE'S SUGGESTED SPECIFICATIONS.
19. MOUNT PLENUM MOUNTED SMOKE DETECTOR WITHIN 12 INCHES OF DAMPER. SEE DETAIL FOR PENDANT MOUNT SMOKE DETECTOR INSTALLATION DETAIL ON SHEET FA.4.14.
20. MOUNT DUCT SMOKE DETECTOR UPSTREAM AND WITHIN 6' OF FIRE/SMOKE DAMPER. SEE MOUNTING DETAIL ON SHEET FA.4.14. AIRFLOW FOR DUCT SMOKE DETECTOR SHALL MEET MANUFACTURE'S SUGGESTED SPECIFICATIONS.
21. MOUNT SMOKE DETECTOR AS SHOWN IN THE "SMOKE DETECTOR FOR DOOR CONTROL INSTALLATION DETAIL" ON SHEET FA.4.14.
22. HEAT DETECTOR IN ELEVATOR ELEVATOR MACHINE ROOM/ELEVATOR SHAFT TO BE LOCATED 2 FEET FROM SPRINKLER HEAD.
23. MONITOR MODULE FOR FIREMAN'S AIR FILLING STATION. LOW AIR PRESSURE SUPERVISION.
24. DEVICES EXPOSED TO THE OUTSIDE ENVIRONMENT SHALL BE MOUNTED IN A WEATHER PROOF ENCLOSURE.
25. SMOKE DETECTOR FOR STAIR PRESSURIZATION FAN. WIRING MUST BE IN CONDUIT. SEE RISER DIAGRAMS FOR WIRING.
26. MOUNT STROBE OR COMBINATION AUDIBLE/STROBE IN SLEEPING AREA WITHIN 16 FEET OF THE PULLCORD PER NFPA 72, 2007, 7.5.4.6.3.
27. MONITOR MODULE FOR WATER TANK HIGH/LOW SUPERVISION. FIELD VERIFY LOCATION.
28. MONITOR MODULE FOR ANSUL SYSTEM ALARM AND TROUBLE SUPERVISION.
29. SEE RISER DIAGRAM FOR WIRE CONNECTIONS.
30. RELAY FOR DOOR CONTROL. SEE DOOR SCHEDULE ON SHEET FA-0.03 FOR MORE INFORMATION.
31.
32.
33. STAIR DOOR LOCK CONTROLLED VIA CONTROL RELAY IN TECHNOLOGY ROOM.
34. CONTROL RELAY FOR AV SYSTEM SHUTDOWN.
35. MONITOR MODULE FOR RATE COMPENSATION HEAT DETECTOR SUPERVISION. FIELD VERIFY LOCATION.
36. SEE DETAIL J ON SHEET FA.4.14 FOR UL LISTING ON RAIL AND RESPONDER 3 NURSE CALL SYSTEM. SEE WIRE DESIGNATION "UM" ON THE CABLE LEGEND FOR THE WIRE TYPE FROM THE RELAY BASE DEVICE TO THE DOME LIGHT.
37. TOP OF HOISTWAY SMOKE DETECTOR. AN ACCESSIBLE UL LISTED 90 MINUTE FIRE RATED HATCH / ACCESS DOOR TO BE PROVIDED (BY OTHERS). SEE "ELEVATOR HOISTWAY SMOKE DETECTOR INSTALLATION DETAIL" ON SHEET FA.4.14. DETAIL L
38. MONITOR MODULE FOR YELLOW STAIRWELL LOCK RELEASE STATION. SEE DOOR SCHEDULE FOR ADDITIONAL INFORMATION.
39. RELAY MODULE FOR LIGHTING CONTROL.
40. DELAY EGRESS DOOR.

GENERAL SHEET NOTE

1. THE FIRE ALARM SYSTEM HAS ALSO BEEN DESIGNED TO BE USED AS THE HOSPITAL PAGING SYSTEM. ANY FIRE ALARM MESSAGE WILL OVERRIDE A PAGING ANNOUNCEMENT.
2. FIRE ALARM WIRING WILL NOT BE INSTALLED IN CONDUIT UNLESS WIRING TO DEVICES INITIATING / INTERFACING WITH STAIR PRESSURIZATION OR UNLESS OTHERWISE NOTED.
3. PENETRATIONS THRU WALLS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. FIRE STOP MATERIAL SHALL BE A UL LISTED ASSEMBLY INSTALLED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS. SEE DRAWING A9.0.01 AND "THROUGH PENETRATIONS FIRESTOP" BINDER FOR INFORMATION AND DETAILS

SEE SHEET FA.2.9A FOR CONTINUATION

SEE SHEET FA.2.08A FOR CONTINUATION

INITIATING DEVICE RISER DIAGRAM
LEVEL 4

NOTE: ALL FIRE/SMOKE DAMPERS OPERATE VIA AREA SMOKE DETECTION.
DOOR HOLDERS RELEASE UPON ANY ALARM EVENT ON A PER FLOOR BASIS.

ALL CHANGES TO THE INFORMATION IN THIS DOCUMENT MUST BE APPROVED BY RFI OR ACD AND BY THE SYSTEM DESIGNER (CONVERGINT TECHNOLOGIES) PRIOR TO MAKING CHANGES IN THE FIELD.

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SKA Project Number
2219

HCAI Number
S221127-38-00

HCAI seal/signature
REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF 7.01 CCR
APPROVED
Department of Health Care Access and Information
FACILITIES DEVELOPMENT DIVISION
9/27/2022, 7:48:28 AM
S221127-38-00
Pedar Bemme

Seal/Signature
LICENSED ARCHITECT STATE OF CALIFORNIA
REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA
Date Signed: 7.13.2022

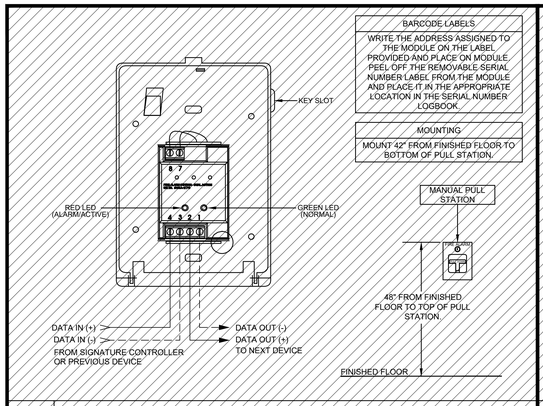
Issued for
HCAI PLAN REVIEW

Drawn by KWS
Checked by JS

Project Name
4TH FLOOR ACU AUTOMATIC DOOR OPERATORS

Sheet Title
INITIATING DEVICE RISER DIAGRAM LEVEL 4

Date 07/06/2022
Scale NONE
Sheet Number
FA.2.08B
30 X 42



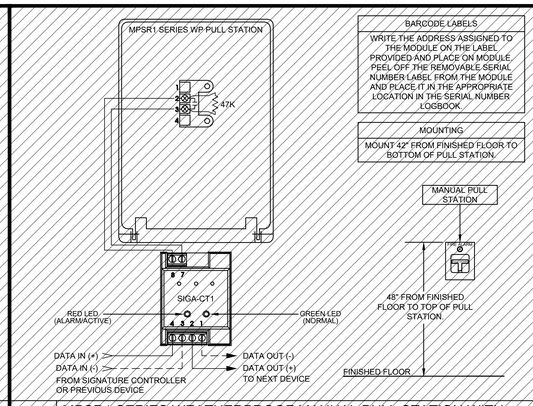
BARCODE LABELS

WRITE THE ADDRESS ASSIGNED TO THE MODULE ON THE LABEL PROVIDED AND PLACE ON MODULE. PEEL OFF THE REMOVABLE SERIAL NUMBER LABEL FROM THE MODULE AND PLACE IT IN THE APPROPRIATE LOCATION IN THE SERIAL NUMBER LOGBOOK.

MOUNTING

MOUNT 42" FROM FINISHED FLOOR TO BOTTOM OF PULL STATION.

A SIGA-278 DUAL ACTION MANUAL PULL STATION WIRING DETAIL



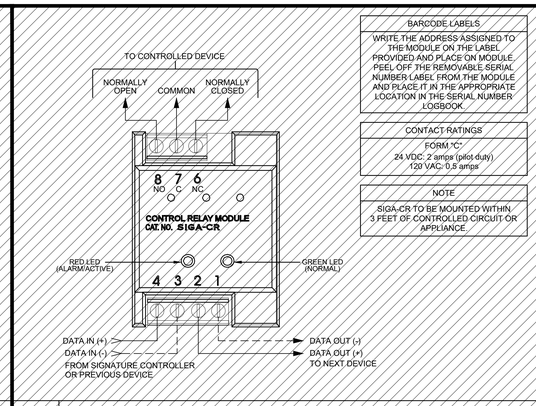
BARCODE LABELS

WRITE THE ADDRESS ASSIGNED TO THE MODULE ON THE LABEL PROVIDED AND PLACE ON MODULE. PEEL OFF THE REMOVABLE SERIAL NUMBER LABEL FROM THE MODULE AND PLACE IT IN THE APPROPRIATE LOCATION IN THE SERIAL NUMBER LOGBOOK.

MOUNTING

MOUNT 42" FROM FINISHED FLOOR TO BOTTOM OF PULL STATION.

B MPSR1 SERIES WEATHERPROOF MANUAL PULL STATION WITH SIGA-CT1 WIRING DETAIL



BARCODE LABELS

WRITE THE ADDRESS ASSIGNED TO THE MODULE ON THE LABEL PROVIDED AND PLACE ON MODULE. PEEL OFF THE REMOVABLE SERIAL NUMBER LABEL FROM THE MODULE AND PLACE IT IN THE APPROPRIATE LOCATION IN THE SERIAL NUMBER LOGBOOK.

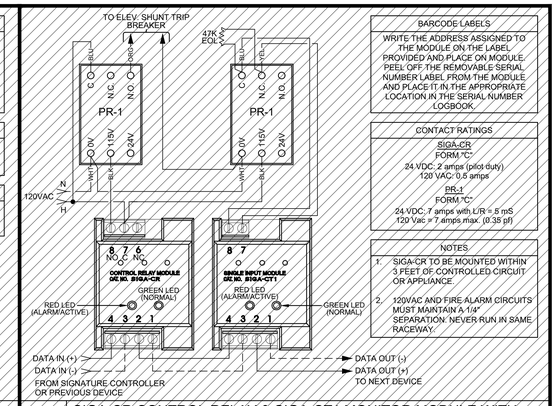
CONTACT RATINGS

FORM "C"
24 VDC: 2 amps (pilot duty)
120 VAC: 0.5 amps

NOTE

SIGA-CR TO BE MOUNTED WITHIN 3 FEET OF CONTROLLED CIRCUIT OR APPLIANCE.

C SIGA-CR CONTROL RELAY WIRING DETAIL



BARCODE LABELS

WRITE THE ADDRESS ASSIGNED TO THE MODULE ON THE LABEL PROVIDED AND PLACE ON MODULE. PEEL OFF THE REMOVABLE SERIAL NUMBER LABEL FROM THE MODULE AND PLACE IT IN THE APPROPRIATE LOCATION IN THE SERIAL NUMBER LOGBOOK.

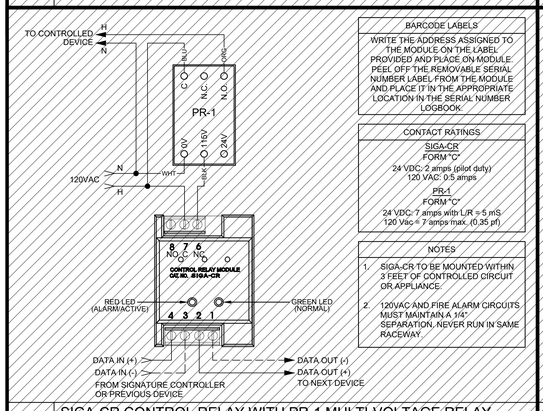
CONTACT RATINGS

SIGA-CR
FORM "C":
24 VDC: 2 amps (pilot duty)
120 VAC: 0.5 amps
PR-1
FORM "C":
24 VDC: 7 amps with L/R = 5 mS
120 Vac = 7 amps max. (0.35 pf)

NOTES

1. SIGA-CR TO BE MOUNTED WITHIN 3 FEET OF CONTROLLED CIRCUIT OR APPLIANCE.
2. 120VAC AND FIRE ALARM CIRCUITS MUST MAINTAIN A 1/4" SEPARATION. NEVER RUN IN SAME RACEWAY.

D SIGA-CR CONTROL RELAY & SIGA-CT1 MONITOR MODULE WITH PR-1 MULT-VOLTAGE RELAYS FOR ELEVATOR SHUNT



BARCODE LABELS

WRITE THE ADDRESS ASSIGNED TO THE MODULE ON THE LABEL PROVIDED AND PLACE ON MODULE. PEEL OFF THE REMOVABLE SERIAL NUMBER LABEL FROM THE MODULE AND PLACE IT IN THE APPROPRIATE LOCATION IN THE SERIAL NUMBER LOGBOOK.

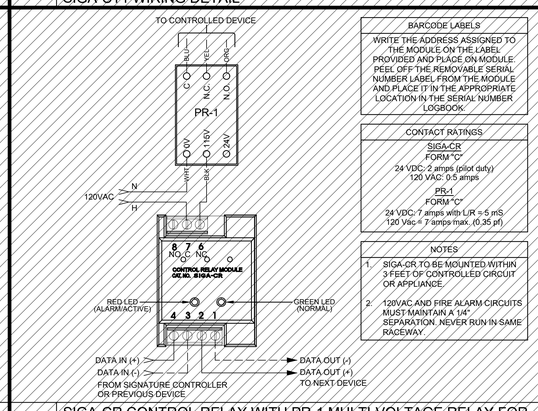
CONTACT RATINGS

SIGA-CR
FORM "C":
24 VDC: 2 amps (pilot duty)
120 VAC: 0.5 amps
PR-1
FORM "C":
24 VDC: 7 amps with L/R = 5 mS
120 Vac = 7 amps max. (0.35 pf)

NOTES

1. SIGA-CR TO BE MOUNTED WITHIN 3 FEET OF CONTROLLED CIRCUIT OR APPLIANCE.
2. 120VAC AND FIRE ALARM CIRCUITS MUST MAINTAIN A 1/4" SEPARATION. NEVER RUN IN SAME RACEWAY.

E SIGA-CR CONTROL RELAY WITH PR-1 MULTI-VOLTAGE RELAY FOR DOOR HOLDER / FSD CONTROL WIRING DETAIL



BARCODE LABELS

WRITE THE ADDRESS ASSIGNED TO THE MODULE ON THE LABEL PROVIDED AND PLACE ON MODULE. PEEL OFF THE REMOVABLE SERIAL NUMBER LABEL FROM THE MODULE AND PLACE IT IN THE APPROPRIATE LOCATION IN THE SERIAL NUMBER LOGBOOK.

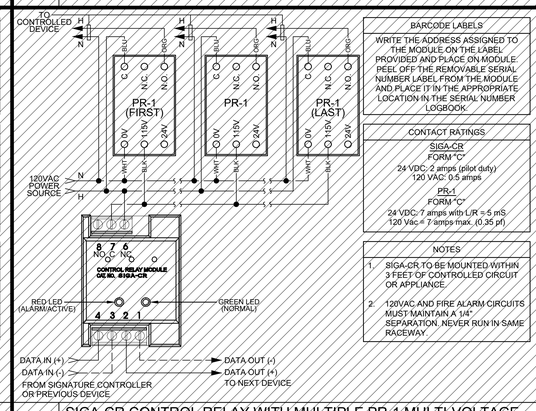
CONTACT RATINGS

SIGA-CR
FORM "C":
24 VDC: 2 amps (pilot duty)
120 VAC: 0.5 amps
PR-1
FORM "C":
24 VDC: 7 amps with L/R = 5 mS
120 Vac = 7 amps max. (0.35 pf)

NOTES

1. SIGA-CR TO BE MOUNTED WITHIN 3 FEET OF CONTROLLED CIRCUIT OR APPLIANCE.
2. 120VAC AND FIRE ALARM CIRCUITS MUST MAINTAIN A 1/4" SEPARATION. NEVER RUN IN SAME RACEWAY.

F SIGA-CR CONTROL RELAY WITH PR-1 MULTI-VOLTAGE RELAY FOR MISCELLANEOUS CONTROL WIRING DETAIL



BARCODE LABELS

WRITE THE ADDRESS ASSIGNED TO THE MODULE ON THE LABEL PROVIDED AND PLACE ON MODULE. PEEL OFF THE REMOVABLE SERIAL NUMBER LABEL FROM THE MODULE AND PLACE IT IN THE APPROPRIATE LOCATION IN THE SERIAL NUMBER LOGBOOK.

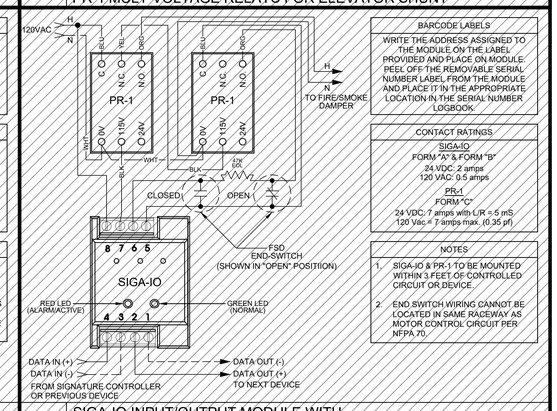
CONTACT RATINGS

SIGA-CR
FORM "C":
24 VDC: 2 amps (pilot duty)
120 VAC: 0.5 amps
PR-1
FORM "C":
24 VDC: 7 amps with L/R = 5 mS
120 Vac = 7 amps max. (0.35 pf)

NOTES

1. SIGA-CR TO BE MOUNTED WITHIN 3 FEET OF CONTROLLED CIRCUIT OR APPLIANCE.
2. 120VAC AND FIRE ALARM CIRCUITS MUST MAINTAIN A 1/4" SEPARATION. NEVER RUN IN SAME RACEWAY.

G SIGA-CR CONTROL RELAY WITH MULTIPLE PR-1 MULTI-VOLTAGE RELAYS FOR DOOR / FSD CONTROL WIRING DETAIL



BARCODE LABELS

WRITE THE ADDRESS ASSIGNED TO THE MODULE ON THE LABEL PROVIDED AND PLACE ON MODULE. PEEL OFF THE REMOVABLE SERIAL NUMBER LABEL FROM THE MODULE AND PLACE IT IN THE APPROPRIATE LOCATION IN THE SERIAL NUMBER LOGBOOK.

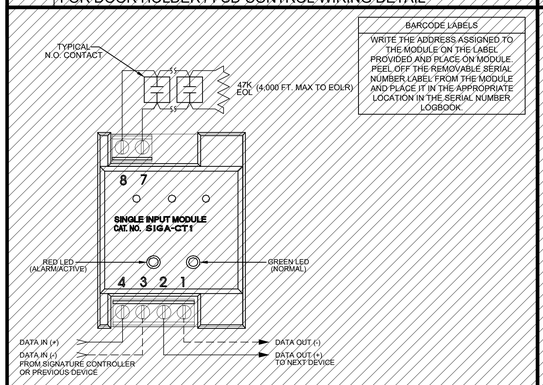
CONTACT RATINGS

SIGA-IO
FORM "A" & FORM "B"
24 VDC: 2 amps
120 VAC: 0.5 amps
PR-1
FORM "C":
24 VDC: 7 amps with L/R = 5 mS
120 Vac = 7 amps max. (0.35 pf)

NOTES

1. SIGA-IO & PR-1 TO BE MOUNTED WITHIN 3 FEET OF CONTROLLED CIRCUIT OR DEVICE.
2. END SWITCH WIRING CANNOT BE LOCATED IN SAME RACEWAY AS MOTOR CONTROL CIRCUIT PER NFPA 70.

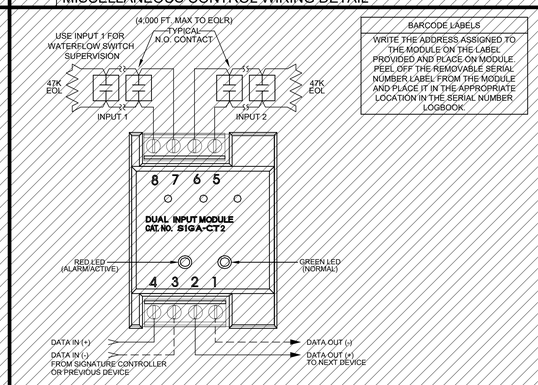
H SIGA-IO INPUT/OUTPUT MODULE WITH PR-1 MULTI-VOLTAGE RELAYS FOR FSD CONTROL & STATUS



BARCODE LABELS

WRITE THE ADDRESS ASSIGNED TO THE MODULE ON THE LABEL PROVIDED AND PLACE ON MODULE. PEEL OFF THE REMOVABLE SERIAL NUMBER LABEL FROM THE MODULE AND PLACE IT IN THE APPROPRIATE LOCATION IN THE SERIAL NUMBER LOGBOOK.

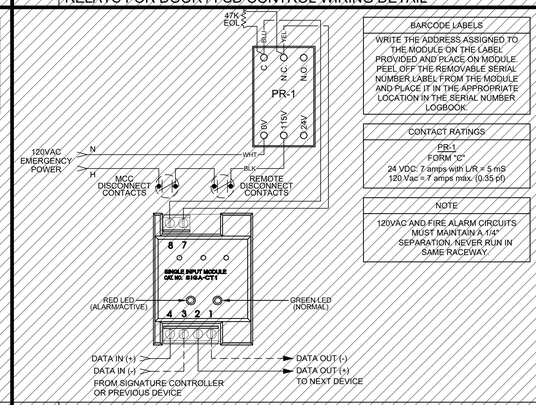
I SIGA-CT1 SINGLE INPUT MONITOR MODULE WIRING DETAIL



BARCODE LABELS

WRITE THE ADDRESS ASSIGNED TO THE MODULE ON THE LABEL PROVIDED AND PLACE ON MODULE. PEEL OFF THE REMOVABLE SERIAL NUMBER LABEL FROM THE MODULE AND PLACE IT IN THE APPROPRIATE LOCATION IN THE SERIAL NUMBER LOGBOOK.

J SIGA-CT2 DUAL INPUT MONITOR MODULE WIRING DETAIL



BARCODE LABELS

WRITE THE ADDRESS ASSIGNED TO THE MODULE ON THE LABEL PROVIDED AND PLACE ON MODULE. PEEL OFF THE REMOVABLE SERIAL NUMBER LABEL FROM THE MODULE AND PLACE IT IN THE APPROPRIATE LOCATION IN THE SERIAL NUMBER LOGBOOK.

CONTACT RATINGS

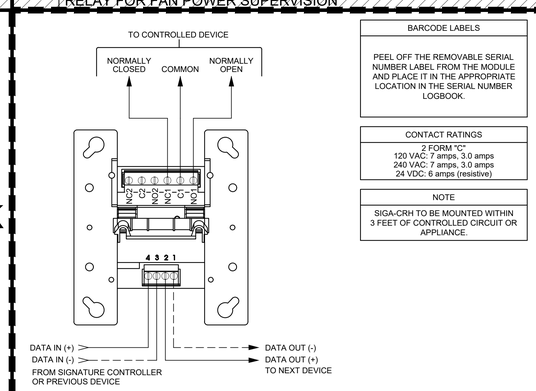
PR-1
FORM "C"
24 VDC: 7 amps with L/R = 5 mS
120 Vac = 7 amps max. (0.35 pf)

NOTE

120VAC AND FIRE ALARM CIRCUITS MUST MAINTAIN A 1/4" SEPARATION. NEVER RUN IN SAME RACEWAY.

K SIGA-CT1 SINGLE INPUT MODULE WITH PR-1 MULTI-VOLTAGE RELAY FOR FAN POWER SUPERVISION

SCOPE OF WORK



BARCODE LABELS

PEEL OFF THE REMOVABLE SERIAL NUMBER LABEL FROM THE MODULE AND PLACE IT IN THE APPROPRIATE LOCATION IN THE SERIAL NUMBER LOGBOOK.

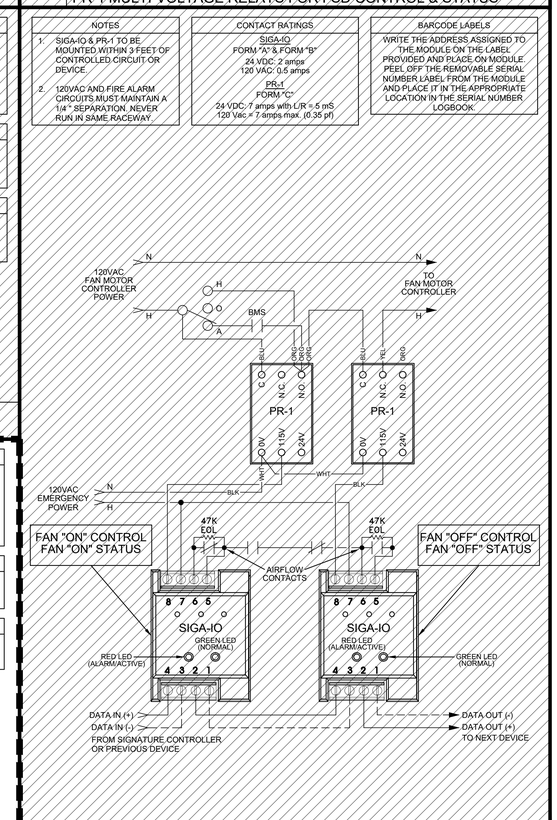
CONTACT RATINGS

2 FORM "C":
120 VAC: 7 amps, 3.0 amps
240 VAC: 7 amps, 3.0 amps
24 VDC: 6 amps (resistive)

NOTE

SIGA-CRH TO BE MOUNTED WITHIN 3 FEET OF CONTROLLED CIRCUIT OR APPLIANCE.

M SIGA-CRH HIGH POWER CONTROL RELAY WIRING DETAIL FOR DOOR CONTROL WIRING DETAIL



L SIGA-IO INPUT/OUTPUT MODULE WITH PR-1 MULTI-VOLTAGE RELAYS FOR FAN CONTROL & STATUS

ALL CHANGES TO THE INFORMATION IN THIS DOCUMENT MUST BE APPROVED BY RFI OR ACD AND BY THE SYSTEM DESIGNER (CONVERGINT TECHNOLOGIES) PRIOR TO MAKING CHANGES IN THE FIELD.

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San Francisco, CA 94117
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Owner
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VAN NESS CAMPUS
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SAN FRANCISCO, CA 94109

Fire Alarm Vendor
convergint
5860 W Las Positas Blvd Ste 7, Pleasanton, CA. 94588
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C10 License No: 986407

SKA Project Number
2219

HCAI Number
S221127-38-00

HCAI seal/signature
REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF 7Z4, CCR
APPROVED
Department of Health Care Access and Information
FACILITIES DEVELOPMENT DIVISION
9/27/2022, 7:48:26 AM
S221127-38-00
Radar Remme

Seal/Signature
LICENSED ARCHITECT STATE OF CALIFORNIA
REGISTERED PROFESSIONAL ENGINEER No. E-11829 Exp. 6-30-2023 Electrical STATE OF CALIFORNIA
Date Signed: 7.13.2022

Issued for
HCAI PLAN REVIEW

Drawn by KWS
Checked by JS

Project Name
4TH FLOOR ACU AUTOMATIC DOOR OPERATORS

Sheet Title
DEVICE DETAILS

Date 07/06/2022
Scale NONE
Sheet Number
FA.4.13

30 X 42

EDWARDS
LIFE SAFETY & INCIDENT MANAGEMENT

High Power Control Relay Module

SIGA-CRH

Description

The SIGA-CRH High Power Control Relay Module is an addressable device designed for interface applications that require a high voltage, high current relay. Two identical sets of relay terminals are provided. Both sets of relay contacts transfer when the module is activated or restored. The state of the output terminals is not supervised.

The module requires one address on the signaling line circuit (SLC). The address is assigned electronically. There are no address switches to set.

Standard Features

- **High Power Rating**
  120/240 VAC or 24 VDC rated contact can be used to control external appliances such as door closers, fans, dampers etc.
- **Provides one relay with two Form C contacts**
  Relay accepts 12 to 18 AWG (1.0 to 4.0 mm²) wiring from two sources
- **Automatic device mapping**
  Signature modules transmit information to the loop controller regarding their circuit locations with respect to other Signature devices on the wire loop.
- **Removable terminal blocks**
  Easy wiring and module replacement.
- **Electronic addressing**
  Programmable addresses are downloaded from the loop controller or PC; there are no switches or dials to set.
- **Intelligent device**
  Distributed intelligence allows lower communication speed with substantially improved control panel response time and less sensitivity to line noise and loop wiring properties; twisted or shielded wire is not required.

Application

Personality code

Use *Personality Code 8* to configure the SIGA-CRH module:

Personality code 8: Signal - dry contact output. Configures the module as a dry relay contact to control external appliances (door closers, fan controllers, dampers) or equipment shutdown.

Indication

The status LED shows the state of the module through the cover plate:

- Normal: Green LED flashes
- Alarm/active: Red LED flashes

Compatibility

The SIGA-CRH is part of the Signature Series intelligent processing and control platform. It is compatible with EST3, EST3X, and iO Series control panels.

Warnings & Cautions

The SIGA-CRH will not operate without electrical power. As fires frequently cause power interruption, we suggest you discuss further safeguards with your local fire protection specialist.

EDWARDS recommends that this module be installed according to latest recognized edition of national and local fire alarm codes.

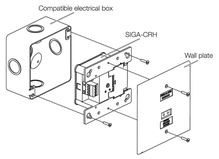
Testing & Maintenance

SIGA-CRH automatic self-diagnosis identifies when it is defective and causes a trouble message. The user-friendly maintenance program shows the current state of each module and other pertinent messages. Single modules may be turned off (deactivated) temporarily, from the control panel. Availability of maintenance features is dependent on the fire alarm system used. Scheduled maintenance (Regular or Selected) for proper system operation should be planned to meet the requirements of the Authority Having Jurisdiction (AHJ). Refer to current NFPA 72 and ULC CAN/ULC S36 standards.

Electronic Addressing

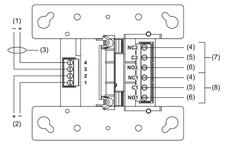
The loop controller electronically addresses the SIGA-CRH, saving valuable time during system commissioning. Setting complicated switches or dials is not required. The module has its own unique serial number stored in its on-board memory.

Installation



Consult the SIGA-CRH High Power Control Relay Module Installation Sheet for details.

Wiring



(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.
Not supervised. Power-limited unless connected to a nonpowerlimited source. If the source is nonpower-limited, eliminate the power-limited mark and maintain a minimum of 0.25 in. (6.4 mm) space from power-limited wiring. For other mounting methods, see enclosure and bracket installation sheets to maintain separation of power-limited and nonpower-limited wiring. The wire size must be capable of handling fault current from a nonpower-limited source.
— or —
Use type FPL, FPLR, FPLP, or permitted substitute cables, provided these power-limited cable conductors extending beyond the jacket are separated by a minimum of 0.25 in. (6.4 mm) space or by a nonconductive sleeve or nonconductive barrier from all other conductors. Refer to the NFPA 70 National Electrical Code for more details.
(8) Relay terminal set 1. Identical to (7).

Specifications

SLC operating voltage	15.20 to 19.95 VDC
SLC current Standby Activated	 75 µA max. 75 µA max.
Contact ratings [1][2] 240 V 50/60 Hz 120 V 50/60 Hz 24 VDC Audio switching	 7 A (PF 0.75), 1.5 A (PF 0.35) 7 A (PF 0.75), 3.0 A (PF 0.35) 6 A resistive 0 to 20 kHz [3]
Relay type	2 Form C, programmable
Relay ready delay From power up From previous activation	 30 s max. (includes initial state set) 5 s max. (one activation) 8 s max. (two activations, 1 s apart)
Circuit designation Signaling line circuits Relay circuits	 Class A, Style 6 or Class B, Style 4. Refer to the control panel technical publications for SLC wiring details. Class E
Number of SIGA-CRH per SLC	60 max.
Wire size	12 to 18 AWG (1.0 to 4.0 mm²)
Compatible electrical boxes	North American double-gang × 2-1/8 in. (54 mm) deep box North American standard 4 in. square × 2-1/8 in. (54 mm) deep box
Agency Listings	CAN/ULC-S527, UL 864
Operating environment Temperature Relative humidity	 32 to 120°F (0 to 49°C) 0 to 93%, noncondensing
Storage temperature	−4 to 140°F (−20 to 60°C)

[1] Provide external fusing and back-EMF mitigation as required by your application. Do not use the SIGA-CRH in a mixed application, where one set of relay terminals has high-power requirements and the other set carries a low-power signal, as this may result in physical contamination of the low-power signal contacts.

[2] The minimum load required in order to avoid long-term contact oxidation is 100 mA and 12 V.

[3] Power must not exceed the contact ratings shown for a given PF (power factor).

Ordering Information

Catalog Number	Description	Ship Weight lbs (kg)
SIGA-CRH	High Power Control Relay Module	0.4 (0.15)

EDWARDS
LIFE SAFETY & INCIDENT MANAGEMENT

Contact us...
Email: edwards.fire@fs.utc.com
Web: Edwards-fire.com

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1016 Corporate Park Drive
Mebane, NC 27302

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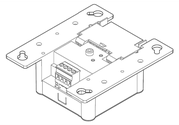
DN-11416

EDWARDS
United Technologies

SIGA-CRH High Power Control Relay Module Installation Sheet



Description

The SIGA-CRH High Power Control Relay Module is an addressable device designed for interface applications that require a high voltage, high current relay. Two identical sets of relay terminals are provided. Both sets of relay contacts transfer when the module is activated or restored. The state of the output terminals is not supervised.

The module requires one address on the signaling line circuit (SLC). Addresses are assigned electronically. There are no address switches.

A status LED shows the state of the module through the cover plate:

- Normal: Green LED flashes
- Alarm/active: Red LED flashes

Personality codes

Use this personality code to configure the SIGA-CRH module.

Personality code 8: Signal - dry contact output. Configures the module as a dry relay contact to control external appliances (door closers, fan controllers, dampers) or equipment shutdown.

Installation

Install and wire this device in accordance with applicable national and local codes, ordinances, and regulations.

Refer to the Signature loop controller installation sheet for SLC wiring specifications.

WARNING: Connecting a device that exceeds this module's contact ratings may cause activation failure. This module does not support capacitive loads. See "Specifications" on page 2 for contact ratings.

Notes

- Install the SIGA-CRH in the same room and within 36 in. (91 cm) of the devices connected to the output terminals. Install the output wiring in conduit or provide equivalent protection against mechanical injury.
- The module is shipped from the factory as an assembled unit; it contains no user-serviceable parts and should not be disassembled.
- This module does not operate without electrical power. As fires frequently cause power interruption, discuss further safeguards with the local fire protection specialist.
- Each terminal on the module is limited to a single conductor.

To install the module:

1. Write the address assigned to the module on the label provided, and then apply the label to the module. Remove the serial number label from the module, and then attach it to the project documentation.
2. Verify that all field wiring is free of opens, shorts, and ground faults.
3. Strip 1/4 in. (about 6 mm) from the ends of all wires that connect to the terminal block of the module.

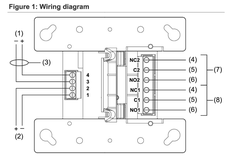
   When stripping wire ends, exposing more wire may cause a ground fault; exposing less wire may result in a faulty connection.
4. Use a slotted screwdriver to release the latches on the hinged terminal cover, and then swing the cover up to access the relay terminals.
5. Make the wiring connections as shown in Figure 1.

   Use separate knockouts for the SLC wiring and the high voltage wiring.

   Make sure that power-limited and nonpower-limited wires will have a minimum of 0.25 in. (6.4 mm) separation when fitted into the box.
6. Swing the terminal cover down and snap it back into place, one latch at a time.
7. Attach the module to the electrical box, using the screws provided with the box. See Figure 2.

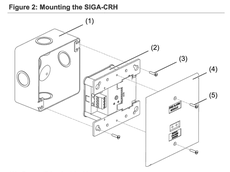
   See "Specifications" for a list of compatible boxes.
8. Attach the wall plate to the module, using the two self-tapping screws provided.

Figure 1: Wiring diagram



(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.
Not supervised. Power-limited unless connected to a nonpower-limited source. If the source is nonpower-limited, eliminate the power-limited mark and maintain a minimum of 0.25 in. (6.4 mm) space from power-limited wiring. For other mounting methods, see enclosure and bracket installation sheets to maintain separation of power-limited and nonpower-limited wiring. The wire size must be capable of handling fault current from a nonpower-limited source.
— or —
Use type FPL, FPLR, FPLP, or permitted substitute cables, provided these power-limited cable conductors extending beyond the jacket are separated by a minimum of 0.25 in. (6.4 mm) space or by a nonconductive sleeve or nonconductive barrier from all other conductors. Refer to the NFPA 70 *National Electrical Code* for more details.
(8) Relay terminal set 1. Identical to (7).

Figure 2: Mounting the SIGA-CRH



(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)

Specifications

SLC voltage	15.20 to 19.95 VDC
SLC current Standby Activated	 75 µA max. 75 µA max.
Contact ratings [1][2] 240 V 50/60 Hz 120 V 50/60 Hz 24 VDC Audio switching	 7 A (PF 0.75), 1.5 A (PF 0.35) 7 A (PF 0.75), 3.0 A (PF 0.35) 6 A resistive 8.4 A max. (AC or DC) 0 to 20 kHz [3]
Relay type	2 Form C, programmable
Relay ready delay From power up From previous activation	 30 s max. (includes initial state set) 5 s max. (one activation) 8 s max. (two activations, 1 s apart)
Circuit designation Signaling line circuits Relay circuits	 Class A, Style 6 or Class B, Style 4. Refer to the control panel technical publications for SLC wiring details. Class E
Number of SIGA-CRH per SLC	60 max.
Wire size	12 to 18 AWG (1.0 to 4.0 mm²)
Compatible electrical boxes	North American double-gang × 2-1/8 in. (54 mm) deep box North American standard 4 in. square × 2-1/8 in. (54 mm) deep box
Operating environment Temperature Relative humidity	 32 to 120°F (0 to 49°C) 0 to 93%, noncondensing
Storage temperature	−4 to 140°F (−20 to 60°C)

[1] Provide external fusing and back-EMF mitigation as required by your application. Do not use the SIGA-CRH in a mixed application, where one set of relay terminals has high-power requirements and the other set carries a low-power signal, as this may result in physical contamination of the low-power signal contacts.

[2] The minimum load required in order to avoid long-term contact oxidation is 100 mA and 12 V.

[3] Power must not exceed the contact ratings shown for a given PF (power factor).

Regulatory information

North American standards	CAN/ULC-S527, UL 864
FCC compliance	This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
Industry Canada compliance	This Class B digital apparatus complies with Canadian ICES-003.
Environmental class	UL: Indoor dry

Contact information

For contact information, see www.edwardsfiresafety.com.

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CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION
OFFICE OF THE STATE FIRE MARSHAL
FIRE ENGINEERING - BUILDING MATERIALS LISTING PROGRAM

LISTING SERVICE

LISTING No. 7300-1657:0121

CATEGORY: 7300 – FIRE ALARM CONTROL UNIT ACCESSORIES/MISC. DEVICES

LISTEE: EDWARDS, A Division of UTC Fire & Security Americas Corporation, Inc.8985 Town Center Parkway, Bradenton, FL 34202
Contact: Jewell Conover (941) 739-4358 Fax (941) 308-8123
Email: rhonda.micochero@carrier.com

DESIGN: Models SIGA-CC1, SIGA-CC2, SIGA-CT1, SIGA-CT1HT, SIGA-CT2, SIGA-CR, SIGA-CRR, SIGA-UM, SIGA-MM1, SIGA-WTM, SIGA-IM, *SIGA-IM2, SIGA-MDM, SIGA-MAB, SIGA-MCT2, SIGA-MCC1, SIGA-MCC2, SIGA-MCR, and SIGA-MCRR Remote Transponders. Models SIGA-AA30 and SIGA-AA50 audio amplifiers. Models SIGA-APS and SIGA-APS-220 power supplies. Models SIGA-MB4, SIGA-MP1, SIGA-MP2 and SIGA-MP2L mounting plates. Models SIGA-UIO2R, SIGA-UIO6 and SIGA-UIO6R motherboards. Model CS-SIGA-CC1P releasing module. Models SIGA-CC1S and SIGA-MCC1S Auto-Sync Output Modules. Models MFC-A and MFC-AD Enclosures. Model SIGA-CR2 Control Relay Module. Model SIGA-CT1HT Signature Series High Temperature Single Input Module. SIGA-CRH High Power Control Relay Module.

Refer to listee's data sheet for additional detailed product description and operational consideration.

RATING: 15.2 - 19.95 VDC

INSTALLATION: In accordance with listee's printed installation instructions, applicable codes and ordinances, and in a manner acceptable to the authority having jurisdiction.

MARKING: Listee's name, model number, electrical rating, and UL label.

APPROVAL: Listed as control unit accessories for use with separately listed compatible fire alarm control units. Refer to listee's Installation Instruction Manual for details.

NOTE: Formerly 7300-1591:121 and 7300-1388:178

*Revision 10-30-20 VWW

This listing is based upon technical data submitted by the applicant. CSFM Fire Engineering staff has reviewed the test results and/or other data but does not make an independent verification of any claims. This listing is not an endorsement or recommendation of the item listed. This listing should not be used to verify correct operational requirements or installation criteria. Refer to listee's data sheet, installation instructions and/or other

Date Issued: **July 01, 2021** *Listing Expires* **June 30, 2022**

Authorized By: ***DAVID CASTILLO,*** *M.E., F.P.E.*
Fire Engineering Division

Architect
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SMITH-KARNG ARCHITECTURE
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Office: 415.552.3600

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SAN FRANCISCO, CA 94109

Fire Alarm Vendor
convergint
5860 W Las Positas Blvd Ste 7, Pleasanton, CA. 94588
Phone: (510) 300-2800 Fax: (925) 225-1101
C10 License No: 986407

SKA Project Number
2219

HCAI Number
S221127-38-00

HCAI seal/signature
REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF 7 CCR
APPROVED
Department of Health Care Access and Information
FACILITIES DEVELOPMENT DIVISION
9/27/2022, 7:48:28 AM
S221127-38-00
Pedar Bemme

Seal/Signature
LICENSED ARCHITECT STATE OF CALIFORNIA
REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA
Exp 6-30-2023
Date Signed: 7.13.2022

Issued for
HCAI PLAN REVIEW

Drawn by KWS
Checked by JS

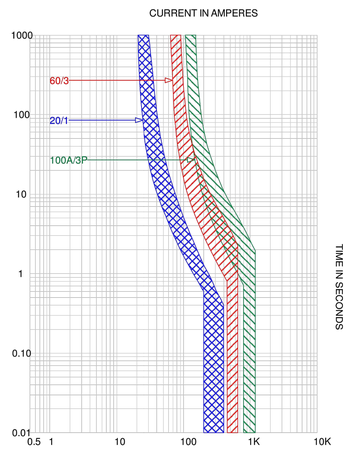
Project Name
4TH FLOOR ACU AUTOMATIC DOOR OPERATORS

Sheet Title
PRODUCT DATA SUBMITTALS & CSFM LISTING SHEETS

Date 07/06/2022
Scale NONE

Sheet Number
FA.6.01

30 X 42



22201.tcc Ref. Voltage: 208V Current in Amps x 1

```
Sep 19, 2022     15:11:45                                          Page 1
Project Name:      22201
TCC Name:          22201.tcc
Reference Voltage: 208 V
Current Scale:     X 10^0
TCC Notes:
TCC Comment:
Fault Duty Option: Study Result - Bus Fault Current

--------------------------------------------------------------------------------
ALL INFORMATION PRESENTED IS FOR REVIEW, APPROVAL, INTERPRETATION,
AND APPLICATION BY A REGISTERED ENGINEER ONLY.
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--------------------------------------------------------------------------------

--------------------------------------------------------------------------------
Device Name:     60/3                                TCC Name:         22201.tcc
Bus Name:        PANEL LLD3G1                        Bus Voltage:      208.0V
Function Name:   Phase
Manufacturer:    EATON/CUTLER-HAMMER
Description:     15-100A
Type:            BAB, 3-Pole
AIC Rating:      10kA                                Fault Duty:       114205.7A
Frame:           BAB 240V 60A                        Tcc Current Multiplier: 1
Tcc Time Multiplier: 1                               Tcc Time Adder:       0s
Trip:            60A
Setting: 1) Fixed

--------------------------------------------------------------------------------
Device Name:     20/1                                TCC Name:         22201.tcc
Bus Name:        PANEL LL4B1                         Bus Voltage:      208.0V
Function Name:   Phase
Manufacturer:    EATON/CUTLER-HAMMER
Description:     10-70A
Type:            BAB, 1-Pole
AIC Rating:      10kA                                Fault Duty:       15919.2A
Frame:           BAB 240V 20A                        Tcc Current Multiplier: 1
Tcc Time Multiplier: 1                               Tcc Time Adder:       0s
Trip:            20A
Setting: 1) Fixed

--------------------------------------------------------------------------------
Device Name:     100A/3P                             TCC Name:         22201.tcc
Bus Name:        PANEL LLD3G1                        Bus Voltage:      208.0V
Function Name:   Phase
Manufacturer:    EATON/CUTLER-HAMMER
Description:     15-100A
Type:            BAB, 3-Pole
AIC Rating:      10kA                                Fault Duty:       114205.7A
Frame:           BAB 240V 100A                       Tcc Current Multiplier: 1
Tcc Time Multiplier: 1                               Tcc Time Adder:       0s
Trip:            100A
Setting: 1) Fixed
```

COORDINATION STUDY

SCALE: NONE

1
E2.0

Architect

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Job No. 22201

SKA Project Number
2219

HCAI Number
S220544-38-00

HCAI seal/signature

Seal/Signature

LICENSED ARCHITECT
CARLYN WOLFE
C37087
EXP. 9/30/2023
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
ROBERT C. HERMAN
No. E10629
Exp. 6-30-2023
Electrical
STATE OF CALIFORNIA

Date Signed: 6.22.2022

Issued for
HCAI PLAN REVIEW

1 BACKCHECK #1	09/21/2022

Drawn by JS
Checked by RH

Project Name
4TH FLOOR ACU
AUTOMATIC DOOR
OPERATORS

Sheet Title
COORDINATION STUDY

Date 06/22/2022
Scale AS NOTED
Sheet Number
1 E2.0

30 X 42