	SYMBOLS	
SYMBOL	DESCRIPTION CENTERAL FOLUDATAIT	
	GENERAL EQUIPMENT	
ACE	ACCESSORY CABINET ENCLOSURE	
FACU #	FIRE ALARM CONTROL UNIT (# = NODE NUMBER)	
FATC	FIRE ALARM TERMINAL CABINET	
FTP	FIRE ALARM TRANSPONDER CABINET	
PRN	PRINTER	
SCP	FIRE FIGHTER'S SMOKE CONTROL PANEL	
PUMP	FIRE PUMP STATUS CONTROL PANEL	
	EMERGENCY COMMUNICATION EQUIPMENT	
BDA	BI-DIRECTIONAL AMPLIFIER	
BDAA	BI-DIRECTIONAL AMPLIFIER ANNUNCIATOR	
MIC	VOICE NOTIFICATION MICROPHONE	
	MISCELLANEOUS DEVICES	
DOC	FIRE ALARM DOCUMENT / DRAWING CABINET	
RI	EMOTE SIGNAL TRANSMISSION / RECEIVING EQUIPMENT	
DCCT	DIGITAL CELLULAR COMMUNICATION TRANSMITTER	
	NON-FIRE ALARM LIFE SAFETY EQUIPMENT	
ESR	ELEVATOR STATUS / RECALL PANEL (DIV 14)	
GEN	GENERATOR & ATS ANNUNCIATOR (DIV 26)	
SEC	DOOR UNLOCKING CONTROLS (DIV 28)	
SRP	SMOKE REMOVAL PANEL / CONTROLS (DIV 23)	

	SYMBOLS						
SYMBOL	DESCRIPTION						
	NOTIFICATION APPLIANCES						
B	ALARM BELL						
W	SPEAKER - WALL MOUNT (W=WATTAGE TAP, TYP))						
₩ C	SPEAKER - CEILING MOUNT						
CD	STROBE - CEILING MOUNT (CD=CANDELA RATING, TYP)						
ĆD ĆD	STROBE - WALL MOUNT						
W CD	SPEAKER / STROBE - WALL MOUNT						
W CD	SPEAKER / STROBE - CEILING MOUNT						
RTS	DUCT DETECTOR REMOTE ALARM INDICATOR / TEST SWITCH						
	MANUAL STATIONS						
F	MANUAL FIRE ALARM BOX						
	AUTOMATIC FIRE DETECTORS						
	FIRE DETECTOR - BASIC SYMBOL (CEILING MOUNT)						
\bigcap	FIRE DETECTOR - BASIC SYMBOL (WALL MOUNT)						
√ T	FIXED TEMP HEAT DETECTOR (T=ACTIVATION TEMP, TYP)						
(s)X	PHOTOELECTRIC (PHOTO) SMOKE DETECTOR (X=TYPE, TYP)						
\(\s\)X	DUCT MOUNTED PHOTO SMOKE DETECTOR						
$\langle S \rangle \downarrow \rangle$	COMBINATION (COMBO) SMOKE / HEAT DETECTOR						
(SS)	120VAC SINGLE- / MULTI-STATION PHOTO SMOKE ALARM						
(CO(SS)	120VAC SINGLE- / MULTI-STATION CO / PHOTO SMOKE ALARM						
	ADDRESSABLE FIRE ALARM MODULES						
MM (X)	MONITOR MODULE (X=INTERFACE, TYPE)						
RM (X)	RELAY MODULE						
	· ·						

*ALL FIRE ALARM CONTROL UNITS, MANUAL FIRE ALARM BOXES AND SPOT-TYPE DETECTORS ARE ADDRESSABLE TECHNOLOGY UNLESS OTHERWISE INDICATED.

**NOT ALL SYMBOLS USED FOR THIS PROJECT.

	SYMBOL ANNOTATIONS
ANNOTATION	DESCRIPTION
	GENERAL
WP	WEATHERPROOF
	MONITOR MODULES
AFL	FAN AIR FLOW MONITORING
BDAC	BDA AC POWER LOSS
BDAN	BDA ANTENNA MALFUNCTION
BDBF	BDA BATTER FAILURE
BDLB	BDA LOW BATTERY
BDSB	BDA SIGNAL BOOSTER FAILURE
FPCS	FPU CONNECTED TO ALTERNATE POWER SOURCE
FPPL	FPU PHASE LOSS
FPPR	FPU PHASE REVERAL
FPRN	FPU RUNING
FPVC	FIRE PROTECTION VALVE CLOSED
FPVO	FIRE PROTECTION VALVE OPEN
PCUA	POLLUTION CONTROL UNIT (PCU) SUPPRESSION ALARM
PCUT	PCU SUPPRESSION TROUBLE
KH	KITCHEN HOOD SUPPRESSION DISCHARGE
TS	TAMPER SWITCH
WF	WATERFLOW SWITCH
WTH	FIRE WATER TANK HIGH LEVEL ALARM
WTL	FIRE WATER TANK LOW LEVEL ALARM
WTVL	FIRE WATER TANK VERY LOW LEVEL ALARM
	RELAY MODULES
CFPV	CLOSE FIRE PROTECTION VALVE
ELAI	ELEVATOR ALARM INDICATOR
ELRA	ELEVATOR ALTERNATE RECALL
ELRP	ELEVATOR PRIMARY RECALL
ESC	ELEVATOR SMOKE CURTAIN
FSD	CLOSE FIRE/SMOKE DAMPER
OFPV	OPEN FIRE PROTECTION VALVE
SAFP	START FIRE PUMP
SD	CLOSE SMOKE DAMPER
SOFP	STOP FIRE PUMP
STPF	STOP FAN

*NOT ALL ABBREVIATIONS USED FOR THIS PROJECT.

ELEC

PLBG

ABBREVIATIONS AUDIO/VISUAL ACOUSTIC CEILING TILE ABOVE FINISHED FLOOR APPROXIMATE LOCATIONS. ABOVE FINISHED GRADE AUTHORITY HAVING JURISDICTION ARCHITECT CENTERLINE DEGREES DRAWING ELECTRICAL **ELEVATOR EXISTING** FAHRENHEIT FIRE ALARM A. CODES AND INSTALLATION STANDARDS INDICATED ON THIS FIRE PROTECTION GYPSUM WALL BOARD LOW VOLTAGE (I.E. AUDO/VISUAL, SECURITY, TEL/DATA) . THE CONTRACTOR SHALL GUARANTEE IN WRITING ALL WORK AND MAXIMUM EQUIPMENT ASSOCIATED WITH THIS PROJECT FOR ONE (1) YEAR AFTER MECHANICAL INSTALLATION. REFER TO THE TECHNICAL SPECIFICATION FOR MECH, ELEC, PLBG, FP, FA, LV, ETC. MINIMUM NOT APPLICABLE NORMALLY CLOSED NOT IN CONTRACT NOT TO SCALE PLUMBING SQUARE FEET TEMPERATURE VOLTAGE IN ALTERNATING CURRENT RADIO ENHANCEMENT SYSTEM(S) FOR EMERGENCY RESPONDERS. VOLTAGE IN DIRECT CURRENT

WEATHER PROOF EXPLOSION PROOF BI-DIRECTIONAL AMPLIFIER BI-DIRECTIONAL AMPLIFIER ANNUNCIATOR CIRCUIT INTEGRITY CABLE COAXIAL CABLE NETWORK COMMUNICATION CIRCUIT DIGITAL VOICE COMMUNICATION CIRCUIT ELECTRICAL METALLIC TUBING END OF LINE RESISTOR FIRE ALARM CONTROL UNIT FIRE ALARM SYSTEM FIRE ALARM TERMINAL CABINET FLEXIBLE METAL CONDUIT FIRE PUMP POWER LIMITED FIRE ALARM CABLE POWER LIMITED FIRE ALARM CABLE - PLENUM RATED POWER LIMITED FIRE ALARM CABLE - RISER RATED INITIATING DEVICE CIRCUIT METAL CLAD CABLE NOTIFICATION APPLIANCE CIRCUIT REMOTE ALARM INDICATOR REMOTE ALARM INDICATOR / TEST SWITCH RIGID METALLIC CONDUIT REMOTE POWER SUPPLY SIGNALING LINE CIRCUIT SPEAKER CIRCUIT STR STROBE CIRCUIT

GENERAL REQUIREMENTS THE FIRE ALARM ENGINEERING DRAWINGS ARE DIAGRAMMATIC IN NATURE. THEY ARE NOT INTENDED TO BE ABSOLUTELY PRECISE NOR INDICATE EVERY REQUIRED SYSTEM COMPONENT. THEY REPRESENT A SYSTEM CONCEPT, THE MAIN SYSTEM COMPONENTS AND THEIR

THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL SYSTEM COMPONENTS, WALL LOCATIONS AND DIMENSIONS AND CEILING HEIGHTS AND COORDINATE WITH THE FIRE ALARM SYSTEM TECHNICIAN PRIOR TO PREPARATION OF THE WORKING PLANS / SHOP DRAWINGS. DRAWING FOR ADDITIONAL INFORMATION.

REFER TO DOCUMENT AND SUBMITTAL REQUIREMENTS ON THIS APPLICABLE DOCUMENTS BEYOND THE ENGINEERING DRAWINGS:

B. COMPLETE CONSTRUCTION DOCUMENTS SET. C. PROJECT MANUAL (TECHNICAL SPECIFICATIONS). D. PRODUCT MANUFACTURER'S REQUIREMENTS.

ADDITIONAL WARRANTY REQUIREMENTS.

SCOPE OF WORK THE SCOPE OF WORK (REFERRED TO AS "THE WORK" HEREINAFTER) INCLUDES THE INSTALLATION OF PROTECTED PREMISES FIRE ALARM SYSTEM WITH ONE-WAY EMERGENCY VOICE COMMUNICATION. . THE SCOPE OF WORK INCLUDES THE INSTALLATION OF TWO-WAY

THE WORK INCLUDES FURNISHING AND INSTALLING ALL DEVICES, CABLING, RACEWAY, HANGERS, EQUIPMENT AND OTHER ASSOCIATED COMPONENTS IN AREAS OF THE BUILDING REPRESENTED ON THE ENGINEERING DRAWINGS TO MAKE THE SYSTEMS FULLY COMPLETE AND

4. THE WORK INCLUDES PROGRAMMING THE FIRE ALARM SYSTEM AS INDICATED ON THESE DRAWINGS.

THE WORK INCLUDES CONNECTION RELAY, MONITOR AND CONTROL WIRING FROM ADDRESSABLE INTERFACE MODULES TO THE ASSOCIATED

. THE WORK INCLUDES ALL CUTTING, DRILLING, CORE DRILLING, ETC. TO INSTALL PATHWAYS THROUGH EXISTING FLOORS, WALLS AND CEILINGS.

THE WORK INCLUDES FIRESTOPPING ALL PENETRATIONS MADE THROUGH FIRE-RESISTANCE RATED BARRIERS. 8. THE WORK INCLUDES ALL FEES AND ACTIVITIES REQUIRED TO SECURE

APPROVALS FOR NECESSARY STATE AND LOCAL PERMITS. THE WORK INCLUDES THE PREPARATION AND SUBMISSION OF ALL DOCUMENTS IDENTIFIED IN THE "DOCUMENT AND SUBMITTAL REQUIREMENTS" SECTION ON THIS DRAWING.

10. THE WORK INCLUDES PERFORMING FIELD QUALITY CONTROL AND COMMISSIONING ACTIVITIES OUTLINED IN NFPA 72. JENSEN HUGHES SHALL BE NOTIFIED 10 BUSINESS DAYS PRIOR TO THE 100% INITIAL ACCEPTANCE TESTING. SAID ACCEPTANCE TESTING SHALL BE WITNESSED BY A REPRESENTATIVE OF JENSEN HUGHES.

1. THE WORK INCLUDES TRAINING OWNER'S PERSONNEL ON THE OPERATION OF THE SYSTEM. REQUIRED MAINTENANCE TASKS AND FREQUENCIES, AND THE LOCATIONS OF ALL SPARE TOOLS AND

COMPONENTS TO MAINTAIN AND OPERATE THE FIRE ALARM SYSTEM.

DOCUMENT AND SUBMITTAL REQUIREMENTS THE FIRE ALARM ENGINEERING DRAWINGS ARE "CONSTRUCTION DOCUMENTS" AS DEFINED BY THE BUILDING CODE. THE HAVE BEEN PREPARED FOR SUBMISSION TO THE AUTHORITY HAVING JURISDICTION

IN ORDER TO OBTAIN A BUILDING PERMIT AND AS THE BASIS OF DESIGN FOR THE PREPARATION OF THE WORKING PLANS / SHOP DRAWINGS. THEY INDICATE THE LOCATION, NATURE AND EXTENT OF THE FIRE ALARM WORK PROPOSED AND SHOW IN DETAIL THAT IT WILL CONFORM THE THE APPLICABLE CODES AND STANDARDS. THESE DRAWINGS INCLUDE CONCEPTUAL LOCATIONS & ARRANGEMENTS OF MAJOR COMPONENTS INCLUDING BUT NOT LIMITED TO FIRE ALARM DEVICES AND EQUIPMENT. THEY ARE NOT INTENDED TO BE USED FOR INSTALLATION OR TO OBTAIN INSTALLATION PERMITS.

THE CONTRACTOR SHALL PREPARE AND SUBMIT FOR APPROVAL TO THE AUTHORITY HAVING JURISDICTION AND THE ENGINEER A COMPLETE SUBMITTAL PACKAGE INCLUSIVE OF PRODUCT DATA SHEETS, WORKING PLANS / SHOP DRAWINGS AND BATTERY, DB LOSS, VOLTAGE DROP AND AMPLIFIER SIZING CALCULATIONS. THE SUBMITTAL PACKAGE SHALL INCLUDE ALL INFORMATION REQUIRED BY THE TECHNICAL SPECIFICATIONS, THE BUILDING CODE AND NFPA 72.

THE SUPERVISION OF A QUALIFIED ENGINEERING TECHNICIAN OR PROFESSIONAL ENGINEER. THE SHOP DRAWINGS SHALL INDICATE THE TECHNICIAN'S OR ENGINEER'S NAME AND THEIR CERTIFICATION OR REGISTRATION NUMBER.

THE CONTRACTOR SHALL PREPARE AND SUBMIT ALL ADDITIONAL FORMS AND DOCUMENTATION REQUIRED BY THE AUTHORITY HAVING

THE SHOP DRAWINGS AND CALCULATIONS SHALL BE PREPARED UNDER

CHANGES IN THE LOCATION OF SYSTEM COMPONENTS FROM THOSE INDICATED ON THE APPROVED SHOP DRAWING SHALL BE IDENTIFIED IN WRITING TO THE AUTHORITY HAVING JURISDICTION AND JENSEN HUGHES PRIOR TO INSTALLATION. ALL CHANGES FROM THE APPROVED SHOP DRAWINGS SHALL BE APPROVED IN WRITING PRIOR TO INSTALLATION. ANY RELOCATIONS OR ADDITIONAL COMPONENTS REQUIRED FOR A FULL CODE COMPLIANT INSTALLATION (E.G. ADDITIONAL DETECTORS) AS A RESULT OF THE CHANGES SHALL BE FURNISHED AND INSTALLED AT THE EXPENSE OF THE CONTRACTOR.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ANY NEW SITE SPECIFIC MODIFICATIONS THAT MAY BE MADE TO THE BUILDING DURING CONSTRUCTION SUCH AS NEW LIGHTS, DROP CEILINGS, ETC. AND UPDATING THE WORKING PLANS AS REQUIRED

THROUGHOUT THE DURATION OF CONSTRUCTION.

THE CONTRACTOR SHALL PREPARE AND SUBMIT FOR APPROVAL THE FOLLOWING CLOSEOUT DOCUMENTATION:

A. A COMPLETE RECORD DRAWING PACKAGE BEARING "RECORD DRAWING", "AS-BUILT DRAWING" OR SIMILAR AND THE ASSOCIATED DATE OF CREATION. THE RECORD DRAWING PACKAGE SHALL INCLUDE SITE SPECIFIC MODIFICATIONS RECORDED DURING

CONSTRUCTION. APPLICABLE SYSTEMS ACCEPTANCE DOCUMENTATION REQUIRED BY THE APPLICABLE NFPA STANDARDS. C. COMPLETE PRODUCT DATA SUBMITTAL PACKAGE INCLUSIVE OF ALL INSTALLED MATERIALS.

FIRE ALARM SYSTEM DESIGN REQUIREMENTS FIRE ALARM SYSTEM DESIGN, MODIFICATION AND INSTALLATION SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:

D. OPERATION AND MAINTENANCE MANUALS.

E. DEVICE ADDRESS LIST.

A. 2018 UTAH BUILDING CODE (AMENDED 2018 IBC) B. 2018 UTAH FIRE CODE (AMENDED 2018 IFC) 2016 NFPA 72, NATIONAL FIRE ALARM & SIGNALING CODE . 2017 NATIONAL ELECTRIC CODE (NFPA 70) WITH UTAH

AMENDMENTS MANUFACTURER'S PUBLISHED DOCUMENTATION AT THE COMMENCEMENT OF FIRE ALARM SYSTEM INSTALLATION .

SPECIAL INSPECTIONS 1. THE FIRE ALARM SYSTEM PERFORMS CONTROL / SUPERVISION OF THE BUILDING SMOKE CONTROL SYSTEMS AND AS SUCH IS REQUIRED TO UNDERGO SPECIAL INSPECTIONS IN ACCORDANCE WITH 2018 UTAH BUILDING CODE CHAPTER 17 AND SECTION 909.

FIRE ALARM SYSTEM INSTALLATION REQUIREMENTS

COORDINATE INSTALLATION ACTIVITIES WITH OTHER DIVISIONS OF WORK. MAKE REASONABLE AND NECESSARY MODIFICATIONS IN SYSTEM INSTALLATION REQUIRED TO PREVENT CONFLICTS WITH OTHER DIVISIONS OF WORK AND IN ORDER TO MAINTAIN ALL CODE REQUIRED CLEARANCES FOR INSPECTION, TESTING AND MAINTENANCE FOR ALL BUILDING SYSTEMS AND CODE MINIMUM HEADROOM.

. ALL COMPONENTS SHALL BE NEW UNLESS OTHERWISE NOTED AND BE UL LISTED OR FM APPROVED.

INSTALL SYSTEMS IN AN EFFICIENT AND RECTILINEAR ARRANGEMENT WITH COMPONENTS PERPENDICULAR AND PARALLEL TO BUILDING WALLS, CEILINGS, STRUCTURE AND SIMILAR ELEMENTS. UNLESS OTHERWISE INDICATED CEILING MOUNTED SYSTEM COMPONENTS SHALL BE INSTALLED CONCEALED ABOVE FINISHED CEILINGS.

INSTALL FIRE ALARM DISPLAYS, OVERRIDE CONTROLS, EXTERIOR PRIVATE MODE NOTIFICATION, SIGNAGE AND OTHER SIMILAR COMPONENTS REQUIRING FIRE DEPARTMENT INTERFACE IN READILY VISIBLE LOCATIONS WITH PROPER CLEARANCES AND IN ACCORDANCE WITH LOCAL FIRE DEPARTMENT REQUIREMENTS.

. IDENTIFICATION SHALL BE PROVIDED AS REQUIRED BY THE APPLICABLE NFPA STANDARDS AND LOCAL FIRE DEPARTMENT AT ALL DEVICES, JUNCTION BOXES AND EQUIPMENT.

PROVIDE SLEEVES, SLEEVES SEALS, ESCUTCHEONS AND LISTED FIRESTOPPING SYSTEMS AT ALL FLOOR / WALL PENETRATIONS AS

REQUIRED BY THE TECHNICAL SPECIFICATIONS.

WET CORE DRILLING SHALL BE USED WITH PROPER PROTECTION IN PLACE TO PREVENT DAMAGE TO THE BUILDING. FIRE ALARM DEVICES INSTALLED WITHIN FINISHED CEILINGS SHALL BE

ALIGNED WITH ADJACENT CEILING COMPONENTS OR CENTER OF TILE

WITH NO VISIBLE DEVIATION. ALL NEW POWER LIMITED FIRE ALARM CIRCUITS (REFERRED TO AS "CIRCUITS" HEREAFTER) SHALL BE INSTALLED IN A DEDICATED CONTINUOUS METAL RACEWAY, MC CABLE OR EXPOSED AS INDICATED IN THE TECHNICAL SPECIFICATIONS. POWER LIMITED FIRE ALARM

10. SUPPORT CONDUIT, CABLES AND RACEWAYS BY BUILDING STRUCTURE.

CIRCUITS SHALL NOT BE INSTALLED WITHIN THE SAME RACEWAY AS

ATTACHMENT TO CEILING SYSTEMS IS NOT PERMITTED. 1. CIRCUITS SHALL BE INSTALLED CONTINUOUS BETWEEN DEVICES AND

EQUIPMENT TERMINALS WITHOUT SPLICES. 12. T-TAPPING OF CIRCUITS IS NOT PERMITTED.

NON-POWER LIMITED CIRCUITS.

13. CONTINUOUS METAL RACEWAYS SHALL BE 3 INCHES MIN WITH RED MARKINGS EVERY 10 FT OR SOLID RED IN CÖLOR; MC CABLE SHALL HAVE

14. COVERPLATES AND CONNECTORS SHALL HAVE FACTORY APPLIED RED FINISH.

15. REDUNDANT PATHWAYS SHALL BE INSTALLED WITH A MINIMUM

SEPARATION OF 1 FT IN THE VERTICAL AND 4 FT IN THE HORIZONTAL. 16. PROVIDE TRANSIENT VOLTAGE SURGE SUPPRESSORS ON ALL CIRCUITS EXITING THE BUILDING.

7. ALL EXTERIOR BURIED CIRCUITS AND CIRCUITS INSTALLED WITHIN SLABS ON GRADE SHALL BE UL LISTED FOR WET LOCATIONS.

FIRE ALARM EQUIPMENT WALL MOUNTED FIRE ALARM EQUIPMENT SHALL BE INSTALLED SUCH

THAT THE BOTTOM OF THE CABINET IS A MINIMUM OF 12 INCHES AFF, TOP OF EQUIPMENT DOES NOT EXCEED 72 INCHES AFF AND THE TOP OF DISPLAY(S) / CONTROLS DOES NOT EXCEED 60 INCHES AFF.

BATTERY CABINETS SHALL BE INSTALLED SUCH THAT THE TOP OF THE CABINET DOES NOT EXCEED 48 INCHES AFF.

APPLIANCES WITHIN THE COMPARTMENT.

UPON INITIAL TESTING.

ALL NEW FIRE ALARM EQUIPMENT SHALL BE POWERED FROM A DEDICATED 120VAC BRANCH CIRCUIT WITH A SURGE PROTECTIVE DEVICE INSTALLED. THE LOCATION OF THE BRANCH CIRCUIT DISCONNECTING MEANS SHALL BE IDENTIFIED AT THE FIRE ALARM EQUIPMENT AND THE BRANCH CIRCUIT BREAKER SHALL BE LABELED, PROVIDED WITH A RED MARKING AND LOCKED WITH A LISTED BREAKING LOCKING DEVICE.

NOTIFICATION APPLIANCES WALL MOUNTED STROBE ONLY AND SPEAKER/STROBE APPLIANCES SHALL BE INSTALLED SUCH THAT THE ENTIRE LENS IS BETWEEN 80 - 96-INCHES AFF AND INSTALLED AT A CONSISTENT HEIGHT THROUGHOUT THE SAME COMPARTMENT WITH OTHER WALL MOUNTED STROBE ONLY, HORN/STROBE AND SPEAKER/STROBE APPLIANCES.

2. WALL MOUNTED SPEAKER ONLY APPLIANCES SHALL BE INSTALLED WITH THEIR TOPS AT A MINIMUM OF 90-INCHES AFF AND 6-INCHES BELOW FINISHED CEILINGS.

3. CEILING MOUNTED STROBE ONLY AND SPEAKER/STROBE APPLIANCES INSTALLED IN AREAS WITH EXPOSED STRUCTURE SHALL BE INSTALLED AS TIGHT TO STRUCTURE AS POSSIBLE WHILE MAINTAINING ALL LENSES BELOW OTHER EXPOSED MEP AND AT A CONSISTENT HEIGHT WITH ALL

FIRE ALARM SIGNALING AUDIBILITY AND INTELLIGIBILITY INTELLIGIBILITY SOUND WATT TAP ROOMS OR AREAS NOTES REQUIRED? PRESSURE LEVEL PUBLIC COMMON AREA RESTROOMS YES 55 dB 0.25w AMENITIES YES 55 dB 0.25w CORRIDORS, LOBBIES, VESTIBULES YES 55 dB 0.25w PUBLIC SINGLE OCCUPANT BATHROOMS 30 dB ELECTRICAL, TEL/ DATA, 30 dB 0.25w JANITOR, STORAGE, TRASH ROOMS MECHANICAL ROOMS 85 dB 2.0w PARKING GARAGE 85 dB 2.0w RESIDENTIAL 0.25w INTELLIGIBILITY TO BE PROVIDED IN ALL LIVING AREAS AND BEDROOMS 1. ADJUST WATTAGE TAPS AS REQUIRED BASED UPON INITIAL ACCEPTANCE TESTING. CONTRACTOR SHALL CARRY ALLOWANCE OF 16 HOURS FOR SPEAK TAP ADJUSTMENTS BASED

FIRE ALARM SYSTEM INSTALLATION REQUIREMENTS ADDRESSABLE INTERFACE MODULES

COORDINATE EXACT LOCATIONS OF SUPERVISED AND CONTROLLED EQUIPMENT WITH OTHER DIVISIONS OF WORK. COORDINATE THE VOLTAGE RATING OF ALL RELAY / CONTROL MODULES WITH THE VOLTAGE RATING OF THE ASSOCIATED EQUIPMENT. INTERPOSING RELAYS SHALL BE PROVIDED WHERE THE VOLTAGE RATING OF THE CONTROLLED EQUIPMENT EXCEEDS THAT OF THE ASSOCIATED RELAY / CONTROL MODULE OR WHERE INDICATED ON THE

ENGINEERING DRAWINGS. INSTALL RELAY MODULES WITHIN 3-FT OF THE ASSOCIATED DEVICE OR CIRCUIT BEING CONTROLLED.

INITIATING DEVICES MANUAL STATIONS SHALL BE INSTALLED SUCH THAT THE OPERABLE PART IS BETWEEN 42 - 48-INCHES AFF.

PROVIDE REMOTE ALARM INDICATORS WITH TEST SWITCHES FOR DUCT-MOUNTED AND IN-DUCT SMOKE DETECTORS AS INDICATED ON THE DRAWINGS. RAI/TS SHALL BE WALL MOUNTED WITH ENTIRE DEVICE INSTALLED 48 - 60-INCHES AFF. WHERE RAI/TS ARE INDICATED IN FRONT OF HOUSE LOCATIONS INSTALL DEVICE ADJACENT TO DETECTOR LOCATION OVERHEAD. WHERE RAI/TSA ARE INDICATED IN MEP ROOMS INSTALL AT FLOOR LEVEL IN READILY VISIBLE LOCATION APPROVED BY

Reserved for permit stamp

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_____ principal architect_____ project manager__JCC_____ drawn by CRB, SMK ____ checked by Checker job no. 20052

date 11/18/2022 revisions:

no. date

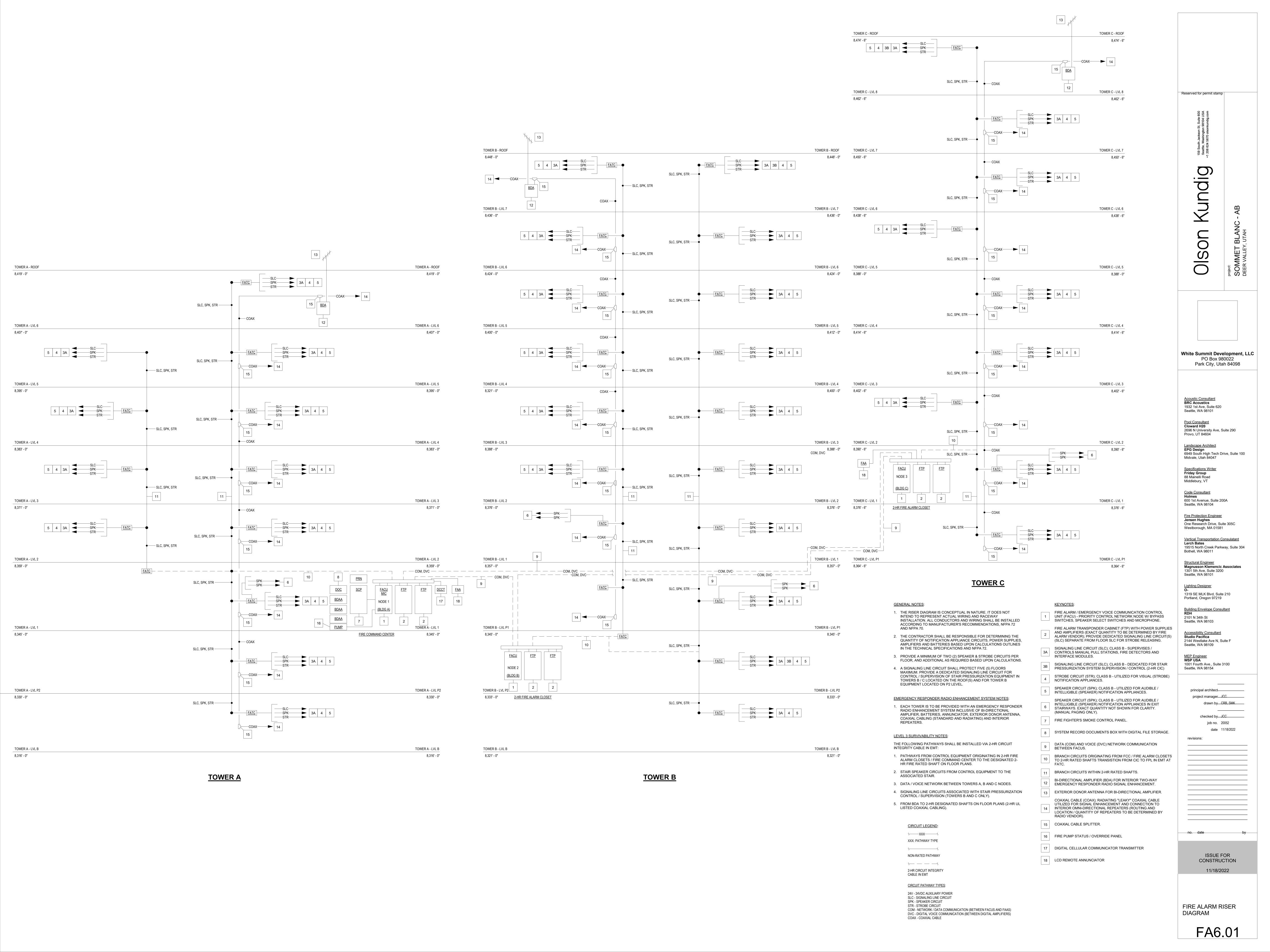
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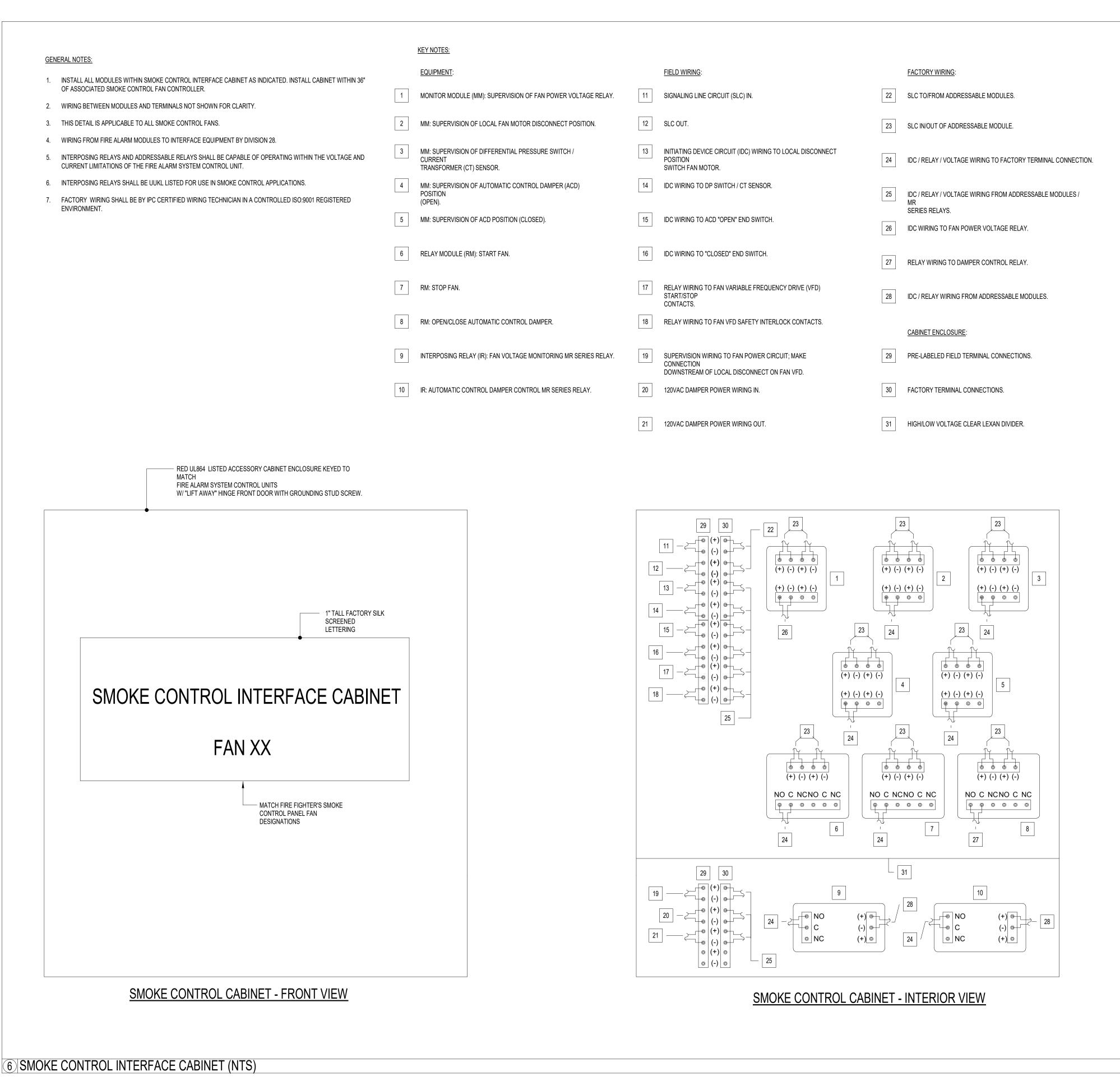
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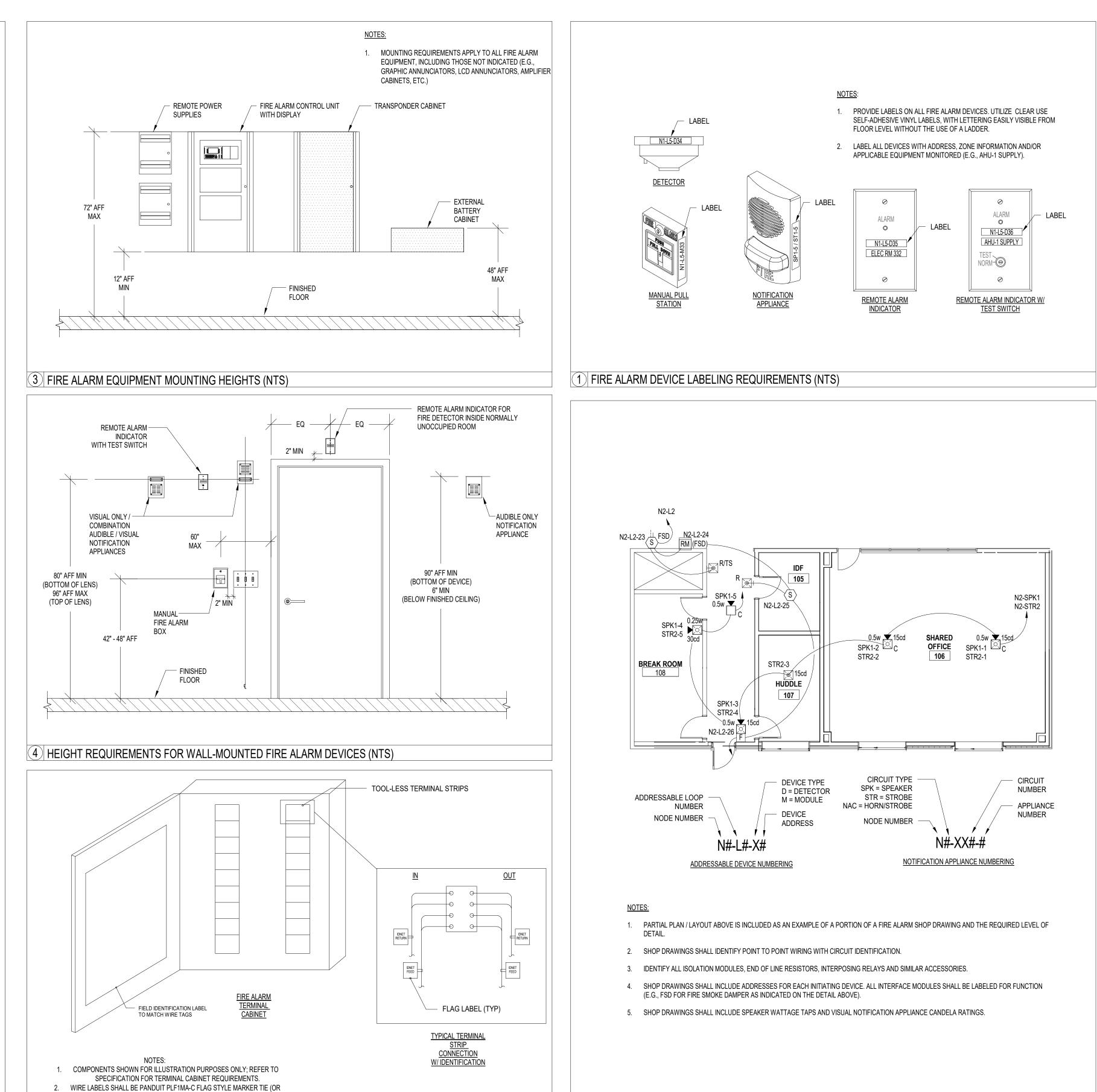
CRITERIA

FIRE ALARM NOTES, LEGEND AND DESIGN

FA0.00







2 FIRE ALARM SHOP DRAWING CONTENT REQUIREMENTS (NTS)

APPROVED EQUAL).

5 FATC WIRE TAGGING DETAIL (NTS)

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drawn by__CRB, SMK____

checked by <u>Checker</u> job no. 20052

date 11/18/2022

no. date by

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11/18/2022

FIRE ALARM DETAILS

FA7.01

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				SYSTEM OUTPUTS																							
							NOTIFICATION												REQUIRED FIRE SAFETY CONTROL								
			FACU & FAA			EMERGENCY REMOTE SIGNAL TRANSMISSION								L ELEVATOR SECURITY/ LIFE SAFETY													
	Fl	OMMET BLANC IRE ALARM INPUT/OUTPUT IATRIX	ACTIVATE COMMON ALARM SIGNAL INDICATOR & AUDIBLE ALARM SIGNAL	ACTIVATE COMMON SUPERVISORY SIGNAL INDICATOR & AUDIBLE SUPERVISORY SIGNAL	ACTIVATE COMMON TROUBLE SIGNAL INDICATOR & AUDIBLE TROUBLE SIGNAL	□ DISPLAY LCD CHANGE OF STATUS & PRINT EVENT	INITIATE OCCUPANT PARTIAL EVACUATION SEQUENCE THROUGHOUT BUILDING AREA IN ALARM (TOWERS AB OR TOWER C)	INITIATE OCCUPANT TOTAL EVACUATION THROUGHOUT TOWER(S) OF ASSOCIATED PULL STATION	o ACTIVATE EXTERIOR WATERFLOW BELLS	ת NOT USED	ACTIVATE ASSOCIATED REMOTE ALARM INDICATOR	ACTIVATE ASSOCIATED PAGING ZONE(S) AND BROADCAST MESSAGE	OVERRIDE FIRE ALARM VOICE EVACUATION MESSAGE	SWITCH TO REDUNDANT/BACK UP AMPLIFIER/TONE GENERATOR	TRANSMIT ALARM SIGNAL TO SUPERVISING STATION VIA CELLULAR COMMUNICATOR	TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION VIA CELLULAR COMMUNICATOR	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION VIA CELLULAR COMMUNICATOR	RECALL ASSOCIATED ELEVATOR(S) TO PRIMARY RECALL FLOOR (SEE ELEVATOR RECALL NOTES)	RECALL ASSOCIATED ELEVATOR(S) TO ALTERNATE RECALL FLOOR (ELEVATOR RECALL NOTES)	□ ILLUMINATE ELEVATOR VISUAL WARNING SIGNAL	INTERMITTENTLY FLASH ELEVATOR VISU	ELEVATOR SMOKE CURTAIN	= NOT USED	CLOSE ASSOCIATED FIRE / SMOKE DAMPER	SHUTDOWN ASSOCIATED HVAC EQUIPMENT	→ INITIATE STAIR PRESSURIZATION SEQUENCE OF OPERATION	
	1	MAIN BUILDING WATERFLOW	•			•		ı	•	- 11	'	J	IX		•	IN		'	_	IX		, ,	0	V	VV		
	2	2 SPRINKLER ZONE WATERFLOW	•			•			•						•											•	\dagger
DEVICES	3	MANUAL PULL STATION (FCC)	•			•	•	•							•											•	
ALARM INITIATING DEV	4	4 AREA SMOKE DETECTOR	•			•	•								•											•	
	5	KITCHEN HOOD / POLLUTION CONTROL UNIT SUPPRESSION SYSTEM ALARM	•			•	•								•											•	
	6	ELEVATOR MACHINE / CONTROL ROOM SMOKE DETECTOR	•			•	•								•			•								•	
	7	ELEVATOR LOBBY SMOKE DETECTOR (PRIMARY RECALL FLOOR - SEE ELEVATOR RECALL NOTES)	•			•	•								•				•	•	,	•				•	
	8	ELEVATOR LOBBY SMOKE DETECTOR (ALL OTHER FLOORS - SEE ELEVATOR RECALL NOTES) NOT USED	•			•	•								•			•		•)	•				•	
	10	FIRE PUMP SUPERVISORY (PUMP RUN, PHASE LOSS/REVERSAL, PUMP CONNECTED TO STANDBY POWER)		•		•										•											
	1	1 FIRE WATER TANK LOW / HIGH LEVEL ALARM		•		•										•											
≥	12	2 FIRE PROTECTION VALVE TAMPER SWITCH		•		•										•											+
SUPERVISORY INITATING DEVICES	13	3 DUCT MOUNTED SMOKE DETECTOR - FIRE/SMOKE DAMPER		•		•					•					•								•			
SUPE	14	4 DUCT MOUNTED SMOKE DETECTOR - AIR HANDLING EQUIPMENT		•		•					•					•									•		
	15	5 POLLUTION CONTROL UNIT SUPPRESSION SYSTEM TROUBLE		•		•										•											+
	16	6 AIR HANDLING UNIT RUN / OFF																						•			
	17	7 FIRE ALARM SYSTEM LOW BATTERY			•	•											•										+
	18	8 FIRE ALARM OPEN CIRCUIT			•	•											•										+
	19	9 FIRE ALARM GROUND FAULT			•	•											•										+
SNO	20	0 FIRE ALARM SYSTEM BATTERY CHARGER FAILURE			•	•											•										+
CONDITIONS	2	1 FIRE ALARM SYSTEM DEVICE COMMUNICATION FAILURE			•	•											•										+
ш	22	2 FIRE ALARM SYSTEM INITIATING DEVICE FAILURE			•	•											•										\uparrow
TROUBL	23	3 FIRE ALARM SYSTEM AMPLIFIER FAILURE			•	•								•			•										\uparrow
	24	4 FIRE ALARM SYSTEM DIGITAL VOICE GENERATOR FAILURE			•	•								•			•										
	25	5 FIRE ALARM AC POWER FAILURE			•	•											•										
		6 FIRE ALARM CONTROL UNIT PROCESSOR FAILURE			•	•											•										
ICY	27	7 MANUAL PAGE - PER PAGING ZONE				•						•	•														
EMERGENCY VOICE COMMUNICATION	28	8 MANUAL PAGE - ALL CALL				•						•	•														
EME	29	9 BUILDING PRE-RECORDED MESSAGE TO ALL EVACUATION ZONES				•						•															

	CUPANT SIGNALING SEQUENCE OF OPERATIONS:
1.	PARTIAL EVACUATION OCCUPANT SIGNALING SEQUENCE OF OPERATION:
A.	ACTUATE PRE-ALERT TONE AND GENERAL VOICE INSTRUCTIONS THROUGHOUT BUILDING AREA IN ALARM (TOWERS AB OR TOWER C); REPEAT ALERT TONE AND GENERAL EVACUATION MESSAGE THREE TIMES.
В.	AFTER THREE ROUNDS OF PRE-ALERT TONE AND VOICE MESSAGE ACTUATE AUDIBLE (TEMPORAL 3) AND VISUAL EVACUATION SIGNALS ON FLOOR OF INCIDENT, FLOOR ABOVE, AND FLOOR BELOW. SIGNALS SHALL CONTINUE TO ACTUATE UNTIL SYSTEM IS RESET AT THE MAIN FIRE ALARM CONTROL UNIT IN FIRE COMMAND CENTER.
C.	ONIT IN FIRE COMMAND CENTER. IN THE EVENT A SUBSEQUENT ALARM IS RECEIVED BY A FLOOR THAT WAS PREVIOUSLY OUTSIDE THE ORIGINAL EVACUATION ZONE, THE EVACUATION ZONE, THE EVACUATION ZONE SHALL AUTOMATICALLY BE EXPANDED TO INCLUDE THE ORIGINAL EVACUATION ZONE, THE SUBSEQUENT ALARM FLOOR, AND FLOORS ABOVE AND BELOW THE NEW EVACUATION ZONE. ACTUATE THE SEQUENCE OF OPERATION INDICATED IN 1.A ABOVE.
2.	TOTAL BUILDING EVACUATION OCCUPANT SIGNALING SEQUENCE OF OPERATIONS:
A.	ACTUATE PRE-ALERT TONE AND GENERAL VOICE INSTRUCTIONS THROUGHT BUILDING ASSOCIATED MANUAL PULL STATION ACTIVATION (TOWERS AB OR TOWER C); REPEAT ALERT TONE AND GENERAL EVACUATION MESSAGE THREE TIMES.
В. С.	AFTER THREE ROUNDS OF PRE-ALERT TONE AND VOICE MESSAGE ACTUATE AUDIBLE (TEMPORAL 3) AND VISUAL EVACUATIONS SIGNALS THROUGHT ASSOCIATED BUILDING. SIGNALS SHALL CONTINUE TO ACTUATE UNTIL SYSTEM IS RESET AT THE MAIN FIRE ALARM CONTROL UNIT IN FIRE COMMAND CENTER.
0.	AUTOMATICALLY BE EXPANDED TO INCLUDE THE ORIGINAL EVACUATION ZONE, THE SUBSEQUENT ALARM FLOOR, AND FLOORS ABOVE AND BELOW THE NEW EVACUATION Z ACTUATE THE SEQUENCE OF OPERATION INDICATED IN 2.A ABOVE.
3.	PRE-RECORDED MESSAGES; THE FOLLOWING VERBIAGE (OR SIMILAR) SHALL BE PROVIDED:
A.	GENERAL VOICE INSTRUCTIONS (PARTIAL EVACUATION): ATTENTION PLEASE, THE SIGNAL TONE YOU HAVE JUST HEARD INDICATES THE REPORT OF AN EMERGENCY IN THIS BUILDING. IF YOUR FLOOR EVACUATION SIGNALS SOUND AFTER THIS MESSAGE, WALK TO THE NEAREST STAIRWAY AND LEAVE THE FLOOR. WHILE THE REPORT IS BEING VERIFIED, OCCUPANTS ON OTHER FLOORS SHOULD WAIT FURTHER INSTRUCTIONS.
В.	
C.	
D. E.	TEST: ATTENTION PLEASE, THE FIRE ALARM SYSTEM WILL BE INSPECTED AND TESTED TODAY BY THE FIRE ALARM VENDOR. PLEASE DISREGARD ALL AUDIBLE AND VISUAL SIGNALS YOU MAY HEAR OR SEE UNTIL FURTHER NOTICE.
4.	.WAV FILES UTILIZED FOR PRE-ALERT AND TEMPORAL 3 SIGNALS SHALL BE A SQUARE WAVE OR PROVIDE EQUIVALENT AWAKENING ABILITY WITH A FUNDAMENTAL FREQUENCY OF 520HX +/- 10 PERCENT IN ACCORDANCE WITH NFPA 72 SECTION 18.4.5.3.
5.	LEVEL P1 AND LEVEL:11 OF TOWER C TO BE TREATED AS A SINGLE EVACUATION SIGNALING ZONE.
6.	LEVEL P1 AND LEVEL 1 OF TOWER B TO BE TREATED AS A SINGLE EVACUATION SIGNALING ZONE.
<u>ELE</u>	VATOR RECALL NOTES
1.	THE FOLLOWING ESTABLISHES THE PRIMARY / ALTERNATE RECALL FLOORS PER "BUILDING"
	BUILDING A - PRIMARY: LEVEL 1; ALTERNATE: LEVEL P2 BUILDING B - PRIMARY: LEVEL 1; ALTERNATE: LEVEL P1

1. ALL BUILDING AHUS SHALL BE SUPERVISED FOR AIRFLOW STATUS; IF BUILDING AHU ARE SHUTDOWN FROM FIRE ALARM SYSTEM OR AREA OFF UPON A SIGNAL FROM BAS, THE

2. IN THE EVENT OF AN ALARM IN TOWERS AB OR TOWER C, ALL AHUS IN THE ASSOCAITED AREA SHALL SHUTDOWN.

ASSOCIATED FIRE/SMOKE DAMPERS SHALL BE CLOSED. UPON RECEIPT OF FAN AIRFLOW ACTIVATION OR FIRE ALARM RESET THE DAMPERS SHALL BE COMMANDED OPEN.

									SYS	ГЕМ	OUT	PUTS	3										
						REN TR	REMOTE SIGNAL TRANSMISSION			STAIR PRESSURIZATION SYSTEM					SMOKE CONTROL PANEL ANNUNCIATION								
		MET BLANC R PRESSURIZATION INPUT/OUTPUT RIX	ACTUATE COMMON ALARM SIGNAL INDICATOR & AUDIBLE ALARM SIGNAL	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR & AUDIBLE SUPERVISORY SIGNAL	റ DISPLAY LCD CHANGE OF STATUS & PRINT EVENT	TRANSMIT ALARM SIGNAL TO SUPERVISING STATION VIA CELLULAR COMMUNICATOR	TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION VIA CELLULAR COMMUNICATOR	not used	AUTOMATICALLY INITIATE STAIR PRESSURIZATION SEQUENCE OF OPERATION (ALL SYSTEM FANS OF BUILDING AREA IN ALARM - TOWERS AB OR TOWER C	# AUTOMATICALLY DEACTIVATE ASSOCIATED STAIR PRESSURIZATION SYSTEM (STOPFAN / CLOSE DAMPER)	MANUALLY INITIATE ASSOCIATED STAIR PRESSURIZATION SYSTEM SEQUENCE OF OPERATION	MANUALLY DEACTIVATE ASSOCIATED STAIR PRESSURIZATION SYSTEM (STOP FAN /CLOSE DAMPER)	⇒ ILLUMINATE ASSOCIATED WHITE LED-TYPE INDICATOR LIGHT	ILLUMINATE ASSOCIATED RED LED-TYPE INDICATOR LIGHT	≥ ILLUMINATE ASSOCIATED GREEN LED-TYPE INDICATOR LIGHT	ILLUMINATE ASSOCIATED YELLOW LED-TYPE INDICATOR LIGHT AND GENERAL PANEL YELLOW/AMBER LED-TYPE INDICATOR LIGHT	O ILLUMINATE ASSOCIATED BLUE LED-TYPE INDICATOR LIGHT	□ ILLUMINATE ALL LEDS ON SMOKE CONTROL PANEL	ACTIVATE SMOKE CONTROL PANEL TROUBLE HORN	SILENCE TROUBLE HORN			
	FIRE ALARM DEVICES	1 ACTIVATION SIGNAL FROM FACU	•		•	•		'	•	- 11			IX.	_ L	IVI				- W				
	AL DE	2 DUCT MOUNTED SMOKE DETECTOR - STAIR PRESSURIZATION FAN			•	•				•							•						
		3 KEY SWITCH OVERRIDE ENGAGED		•	•		•																
	Ъш	4 SCP HOA CONTROL SET TO AUTO											•										
	SWITCH / KEY INTERFACE	5 SCP HOA CONTROL SET TO ON			•						•												
	SWIT	6 SCP HOA CONTROL SET TO OFF			•							•											
IS		7 LAMP TEST BUTTON PUSHED			•													•					
		8 HORN SILENCE BUTTON PUSHED			•															•			
SYSTEM INPUTS		9 STAIR PRESSURIZATION FAN OUTSIDE AIR DAMPER "OPEN" STATUS NOT ACHIEVED WITHIN 75 SECONDS OF INITIATION SIGNAL		•	•		•									•							
		SMOKE PRESSURIZATION FAN "ON" STATUS NOT ACHIEVED WITHIN 60 SECONDS OF INITIATION SIGNAL		•	•		•									•			•				
3XS		11 FAN FLOW PROVING CURRENT SENSOR ACTIVATED													•								
S	NTROL S	12 FAN FLOW PROVING CURRENT SENSOR DEACTIVATED												•									
	SMOKE CONTROL EQUIPMENT STATUS	13 STAIR PRESSURIZATION FAN POWER FAILURE / LOCAL FAN DISCONNECT IN OFF POSITION		•	•		•									•			•				
	SMOI	14 STAIR PRESSURIZATION FAN OUTSIDE AIR DAMPER END SWITCH IN OPEN POSITION													•								
		15 STAIR PRESSURIZATION FAN OUTSIDE AIR DAMPER END SWITCH IN CLOSED POSITION												•									
		16 NOT USED																					
			Α	В	С	D	Е	F	G	Н	1	J	K	L	M	N	0	Р	Q	R			

STAIRWELL PRESSURIZATION SEQUENCE OF OPERATION

BUILDING AHU NOTES

FOR EACH ALARM CONDITION NOTED IN THE FIRE ALARM INPUT/OUTPUT MATRIX AS HAVING A STAIRWELL PRESSURIZATION INITIATION FUNCTION, THE FIRE ALARM SYSTEM SHALL INITIATE THE FOLLOWING SEQUENCE OF OPERATION WITHIN 10 SECONDS OF ALARM INITIATION:

OUTSIDE AIR DAMPERS AT FANS OPEN OF BUILDING AREA IN ALARM (TOWERS AB OR TOWER C).
 A. NORMAL OPERATION: "OPEN" END SWITCH IS MADE WITHIN 75 SECONDS OF OPEN SIGNAL TRANSMISSION FROM THE FIRE ALARM SYSTEM; GREEN "ON" INDICATOR LIGHT ASSOCIATED WITH THE DAMPER SHALL BE ILLUMINATED ON THE FIRE FIGHTER'S SMOKE CONTROL PANEL.
 B. FAULT: IF DAMPER "OPEN" END SWITCH DOES NOT MAKE WITHIN 75 SECONDS OF SIGNAL TRANSMISSION FROM THE FIRE ALARM SYSTEM THE YELLOW INDICATOR LIGHT ASSOCIATED WITH THE FAN SHALL BE ILLUMINATED ON THE FIRE FIGHTER'S SMOKE CONTROL PANEL, THE FIRE ALARM SYSTEM LCD SHALL DISPLAY THE CHANGE IN STATUS, THE LOCAL AUDIBLE/VISUAL INDICATORS ON THE FIRE ALARM CONTROL UNIT SHALL ACTUATE AND A SUPERVISORY SIGNAL SHALL BE TRANSMITTED TO THE SUPERVISING STATION.
 ONCE OUTSIDE AIR DAMPERS AT FANS MAKE THE ASSOCIATED FAN STARTS:

A. NORMAL OPERATION: FAN FLOWING PROVING DEVICE IS ACTUATED WITHIN 60 SECONDS OF OPEN SIGNAL TRANSMISSION FROM THE FIRE ALARM SYSTEM; GREEN "ON" INDICATOR LIGHT ASSOCIATED WITH THE FAN SHALL BE ILLUMINATED ON THE FIRE FIGHTER'S SMOKE CONTROL PANEL.
 B. FAULT: IF FAN FLOWING PROVIDING DEVICE DOES NOT ACTUATE WITHIN 60 SECONDS OF SIGNAL TRANSMISSION FROM THE FIRE ALARM SYSTEM THE YELLOW INDICATOR LIGHT ASSOCIATED WITH THE FAN SHALL BE ILLUMINATED ON THE FIRE FIGHTER'S SMOKE CONTROL PANEL, THE FIRE ALARM SYSTEM LCD SHALL DISPLAY THE CHANGE IN STATUS, THE LOCAL AUDIBLE/VISUAL INDICATORS ON THE FIRE ALARM CONTROL UNIT SHALL ACTUATE AND A SUPERVISORY SIGNAL SHALL BE TRANSMITTED TO THE SUPERVISING STATION.

3. THE FANS AND DAMPERS SHALL STAY ON AND OPEN UNTIL MANUALLY RESET AT THE FIRE FIGHTER'S SMOKE CONTROL PANEL.

SMOKE CONTROL AUTOMATIC WEEKLY SELF-TEST

1. WEEKLY SELF-TEST TO BE BYPASSED IN ACCORDANCE WITH EXCEPTION TO 2018 UTAH BUILDING CODE SECTION 909.12.1. PRESENCE OF POWER DOWNSTREAM OF ALL DISCONNECTS IS CONSTANTLY MONITORED BY THE FIRE ALARM SYSTEM AND TESTING OF ALL COMPONENTS BYPASSED FROM THE PRE-PROGRAMMED WEEKLY SELF-TEST WILL BE TESTED BY OWNER IN ACCORDANCE WITH SECTION 909.20.6 OF THE INTERNATIONAL FIRE CODE.

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checked by__Checker

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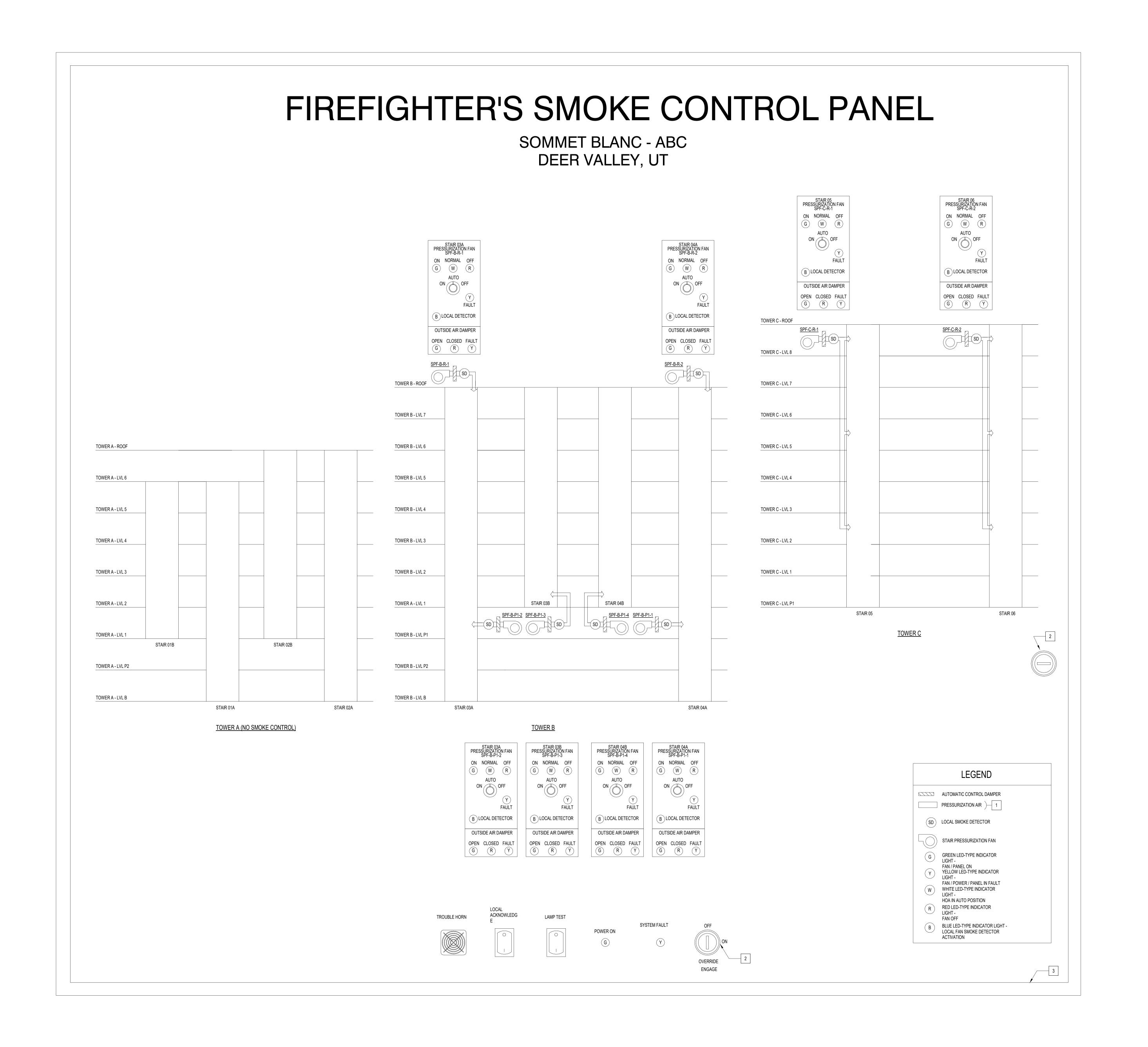
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FIRE ALARM SEQUENCES OF OPERATION



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KEY NOTES:

- 1 PRESSURIZATION AIR SHADED BLUE
- 2 KEYED TO MATCH LOCATE FIRE DEPARTMENT REQUIREMENTS
- NEMA 1 ENCLOSURE WITH HINGED FRONT PANEL

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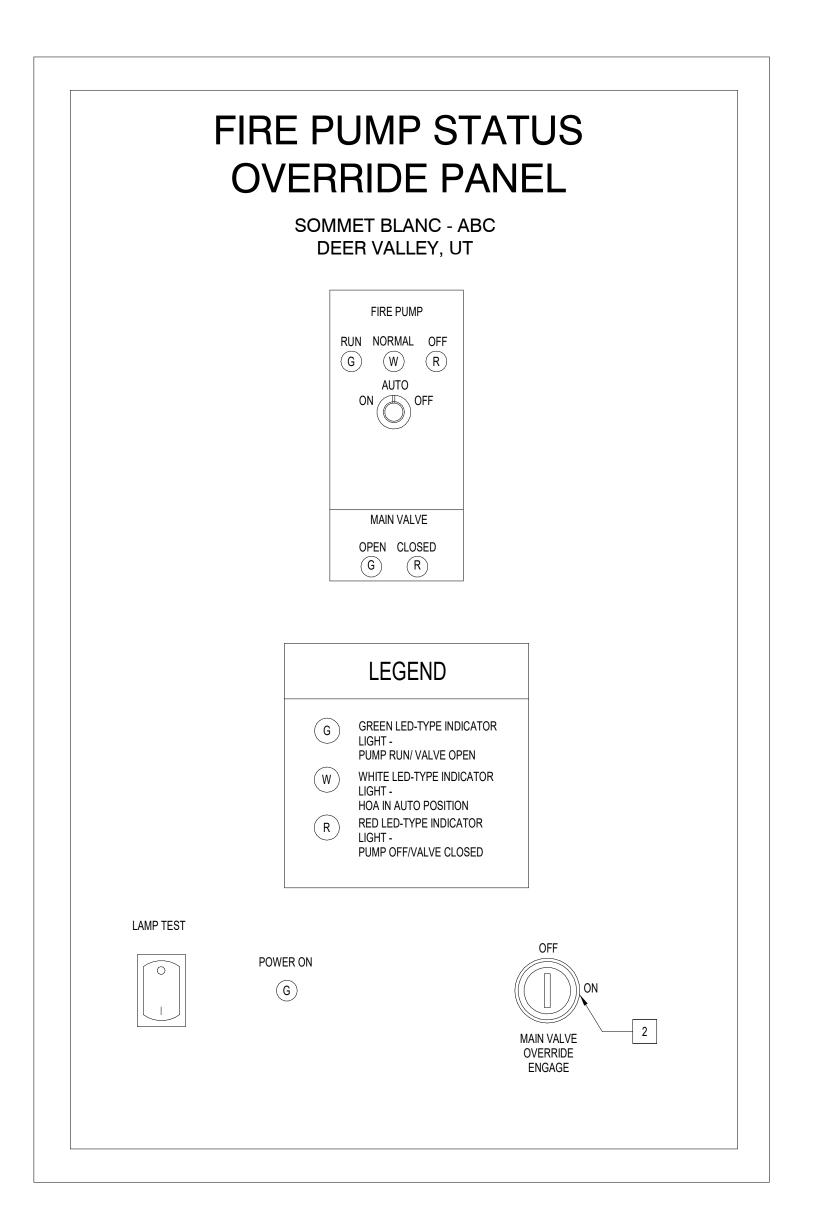
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FIRE FIGHTER'S SMOKE CONTROL PANEL

FA9.01



NOTES:

1. WHITE LED SHALL ILLUMINATE WHEN HOA IS IN AUTO POSITION.

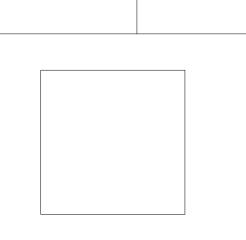
2. GREEN PUMP LED SHALL ILLUMINATE UPON FIRE PUMP RUN SIGNAL FROM CONTROLLER. RED LED SHALL ILLUMINATE WHEN PUMP RUN SIGNAL CLEARS.

3. VALVE GREEN / RED LED SHALL ILLUMINATE BASED UPON VALVE POSITION SUPERVISION BY FIRE ALARM SYSTEM.

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Reserved for permit stamp

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FIRE PUMP STATUS/OVERRIDE PANEL

FA9.02