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|--|--|------------------|--|--|--|--|--|
| SYMBOLS | | | | | | | |
| SYMBOL | SYMBOL | | | | | | |
| GENERAL EQUIPMENT | | | | | | | |
| ACE | ACCESSORY CABINET ENCLOSURE | B | | | | | |
| FACU # | FACU # FIRE ALARM CONTROL UNIT (# = NODE NUMBER) | | | | | | |
| FATC | FATC FIRE ALARM TERMINAL CABINET | | | | | | |
| FTP | FTP FIRE ALARM TRANSPONDER CABINET | | | | | | |
| PRN | PRINTER | ĆD | | | | | |
| SCP | FIRE FIGHTER'S SMOKE CONTROL PANEL | ₩ ▼ CD | | | | | |
| PUMP | FIRE PUMP STATUS CONTROL PANEL | W ▼CD C | | | | | |
| | EMERGENCY COMMUNICATION EQUIPMENT | DTC | | | | | |
| BDA | BI-DIRECTIONAL AMPLIFIER | RTS | | | | | |
| BDAA | BI-DIRECTIONAL AMPLIFIER ANNUNCIATOR | F | | | | | |
| MIC | VOICE NOTIFICATION MICROPHONE | | | | | | |
| MISCELLANEOUS DEVICES | | | | | | | |
| DOC | FIRE ALARM DOCUMENT / DRAWING CABINET | | | | | | |
| REMOTE SIGNAL TRANSMISSION / RECEIVING EQUIPMENT | | | | | | | |
| DCCT | DIGITAL CELLULAR COMMUNICATION TRANSMITTER | (s) ^X | | | | | |
| NON-FIRE ALARM LIFE SAFETY EQUIPMENT | | | | | | | |
| ESR | ELEVATOR STATUS / RECALL PANEL (DIV 14) | \sqrt{\sqrt{S}}X | | | | | |
| GEN | GENERATOR & ATS ANNUNCIATOR (DIV 26) | ⟨S∑♠⟩ | | | | | |
| SEC | DOOR UNLOCKING CONTROLS (DIV 28) | (SS) | | | | | |
| SRP | SRP SMOKE REMOVAL PANEL / CONTROLS (DIV 23) | | | | | | |
| | | | | | | | |

| SYMBOL | SYMBOLS DESCRIPTION | | | | |
|--|---|--|--|--|--|
| | NOTIFICATION APPLIANCES | | | | |
| B | ALARM BELL | | | | |
| ▼ W | SPEAKER - WALL MOUNT (W=WATTAGE TAP, TYP)) | | | | |
| ₩ C | SPEAKER - CEILING MOUNT | | | | |
| ĆD | STROBE - CEILING MOUNT (CD=CANDELA RATING, TYP) | | | | |
| CD | STROBE - WALL MOUNT | | | | |
| W ▼ CD | SPEAKER / STROBE - WALL MOUNT | | | | |
| W ▼CD C | SPEAKER / STROBE - CEILING MOUNT | | | | |
| RTS | DUCT DETECTOR REMOTE ALARM INDICATOR / TEST SWITCH | | | | |
| MANUAL STATIONS | | | | | |
| F | MANUAL FIRE ALARM BOX | | | | |
| | AUTOMATIC FIRE DETECTORS | | | | |
| \bigcirc | FIRE DETECTOR - BASIC SYMBOL (CEILING MOUNT) | | | | |
| \bigcirc | FIRE DETECTOR - BASIC SYMBOL (WALL MOUNT) | | | | |
| Ū [™] | 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 ALARN | | | | |
| | ADDRESSABLE FIRE ALARM MODULES | | | | |
| MM (X) | MONITOR MODULE (X=INTERFACE, TYPE) | | | | |
| RM (X) | RELAY MODULE | | | | |
| GENERAL ANNOTATIONS | | | | | |
| X | KEYNOTE | | | | |

**NOT ALL SYMBOLS USED FOR THIS PROJECT.

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

- **ABBREVIATIONS** ACOUSTIC CEILING TILE ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AUTHORITY HAVING JURISDICTION ARCHITECT ARCH CENTERLINE DEGREES ELECTRICAL **ELEVATOR** EXISTING FAHRENHEIT FIRE ALARM FIRE PROTECTION GYPSUM WALL BOARD LOW VOLTAGE (I.E. AUDO/VISUAL, SECURITY, TEL/DATA) MAXIMUM MECH MECH, ELEC, PLBG, FP, FA, LV, ETC. NOT APPLICABLE NORMALLY CLOSED NOT IN CONTRACT NOT TO SCALE PLUMBING TEMPERATURE VOLTAGE IN ALTERNATING CURRENT VOLTAGE IN DIRECT CURRENT WEATHER PROOF EXPLOSION PROOF
- BI-DIRECTIONAL AMPLIFIER BI-DIRECTIONAL AMPLIFIER ANNUNCIATOR CIRCUIT INTEGRITY 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 PLIMP 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 RAI/TS RMC REMOTE ALARM INDICATOR / TEST SWITCH RIGID METALLIC CONDUIT REMOTE POWER SUPPLY SIGNALING LINE CIRCUIT SPEAKER CIRCUIT STROBE CIRCUIT *NOT ALL ABBREVIATIONS USED FOR THIS PROJECT.

- 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
- APPROXIMATE LOCATIONS. 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.

REFER TO DOCUMENT AND SUBMITTAL REQUIREMENTS ON THIS

3. APPLICABLE DOCUMENTS BEYOND THE ENGINEERING DRAWINGS: A. CODES AND INSTALLATION STANDARDS INDICATED ON THIS

DRAWING FOR ADDITIONAL INFORMATION.

- B. COMPLETE CONSTRUCTION DOCUMENTS SET. C. PROJECT MANUAL (TECHNICAL SPECIFICATIONS). D. PRODUCT MANUFACTURER'S REQUIREMENTS. I. THE CONTRACTOR SHALL GUARANTEE IN WRITING ALL WORK AND EQUIPMENT ASSOCIATED WITH THIS PROJECT FOR ONE (1) YEAR AFTER INSTALLATION. REFER TO THE TECHNICAL SPECIFICATION FOR 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 RADIO ENHANCEMENT SYSTEM(S) FOR EMERGENCY RESPONDERS. 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 OPERATIONAL.
- 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. 0. 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
- 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.

INSTALLATION OR TO OBTAIN INSTALLATION PERMITS.

AND EQUIPMENT. THEY ARE NOT INTENDED TO BE USED FOR

- THE SHOP DRAWINGS AND CALCULATIONS SHALL BE PREPARED UNDER 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 JURISDICTION.
- 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.
- BY THE APPLICABLE NFPA STANDARDS. C. COMPLETE PRODUCT DATA SUBMITTAL PACKAGE INCLUSIVE OF ALL INSTALLED MATERIALS. D. OPERATION AND MAINTENANCE MANUALS. E. DEVICE ADDRESS LIST.

B. APPLICABLE SYSTEMS ACCEPTANCE DOCUMENTATION REQUIRED

FIRE ALARM SYSTEM DESIGN, MODIFICATION AND INSTALLATION SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS: A. 2018 UTAH BUILDING CODE (AMENDED 2018 IBC) B. 2018 UTAH FIRE CODE (AMENDED 2018 IFC)

FIRE ALARM SYSTEM DESIGN REQUIREMENTS

- 2016 NFPA 72, NATIONAL FIRE ALARM & SIGNALING CODE 2017 NATIONAL ELECTRIC CODE (NFPA 70) WITH UTAH MANUFACTURER'S PUBLISHED DOCUMENTATION AT THE COMMENCEMENT OF FIRE ALARM SYSTEM INSTALLATION.
- SPECIAL INSPECTIONS 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.
- 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

INSTALL FIRE ALARM DISPLAYS, OVERRIDE CONTROLS, EXTERIOR

PRIVATE MODE NOTIFICATION, SIGNAGE AND OTHER SIMILAR

PROVIDE SLEEVES, SLEEVES SEALS, ESCUTCHEONS AND LISTED FIRESTOPPING SYSTEMS AT ALL FLOOR / WALL PENETRATIONS AS REQUIRED BY THE TECHNICAL SPECIFICATIONS.

JUNCTION BOXES AND EQUIPMENT.

WET CORE DRILLING SHALL BE USED WITH PROPER PROTECTION IN PLACE TO PREVENT DAMAGE TO THE BUILDING.

NFPA STANDARDS AND LOCAL FIRE DEPARTMENT AT ALL DEVICES,

- 8. FIRE ALARM DEVICES INSTALLED WITHIN FINISHED CEILINGS SHALL BE ALIGNED WITH ADJACENT CEILING COMPONENTS OR CENTER OF TILE WITH NO VISIBLE DEVIATION. 9. 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 CIRCUITS SHALL NOT BE INSTALLED WITHIN THE SAME RACEWAY AS NON-POWER LIMITED CIRCUITS.
- 10. SUPPORT CONDUIT, CABLES AND RACEWAYS BY BUILDING STRUCTURE. ATTACHMENT TO CEILING SYSTEMS IS NOT PERMITTED.
- 11. CIRCUITS SHALL BE INSTALLED CONTINUOUS BETWEEN DEVICES AND EQUIPMENT TERMINALS WITHOUT SPLICES.
- 12. T-TAPPING OF CIRCUITS IS NOT PERMITTED. 13. CONTINUOUS METAL RACEWAYS SHALL BE $\frac{3}{4}$ INCHES MIN WITH RED MARKINGS EVERY 10 FT OR SOLID RED IN COLOR; MC CABLE SHALL HAVE
- 14. COVERPLATES AND CONNECTORS SHALL HAVE FACTORY APPLIED RED
- 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. 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,
- 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,

LOCKING DEVICE.

PROVIDED WITH A RED MARKING AND LOCKED WITH A LISTED BREAKING

- 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 APPLIANCES WITHIN THE COMPARTMENT.

- 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.
- 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

| | FIRE ALARM SIGNALING AUDIBILITY AND INTELLIGIBILITY | | | | | | | |
|--|---|------------------------------|--|------------------------|---|--|--|--|
| ADS# | ROOMS OR AREAS | INTELLIGIBILITY REQUIRED? | DESIGN AMBIENT SOUND PRESSURE LEVEL | MINIMUM WATT TAP | NOTES | | | |
| 1 | PUBLIC COMMON AREA RESTROOMS | YES | 55 dB | 0.25w | | | | |
| 2 | AMENITIES | YES | 55 dB | 0.25w | - | | | |
| 3 | CORRIDORS, LOBBIES, VESTIBULES | YES | 55 dB | 0.25w | • | | | |
| 4 | PUBLIC SINGLE OCCUPANT BATHROOMS | NO | 30 dB | - | • | | | |
| 5 | ELECTRICAL, TEL/ DATA, JANITOR, STORAGE, TRASH ROOMS | NO | 30 dB | 0.25w | • | | | |
| 6 | MECHANICAL ROOMS | NO | 85 dB | 2.0w | • | | | |
| 7 | PARKING GARAGE | NO | 85 dB | 2.0w | - | | | |
| 8 | RESIDENTIAL | YES | 35 dB | 0.25w | INTELLIGIBILITY TO BE PROVIDED IN ALL LIVING AREAS AND BEDROOMS | | | |
| NOTES: 1. ADJUST WATTAGE TAPS AS REQUIRED BASED UPON INITIAL ACCEPTANCE TESTING. CONTRACTOR SHALL CARRY ALLOWANCE OF 16 HOURS FOR SPEAK TAP ADJUSTMENTS BASED UPON INITIAL TESTING. | | | | | | | | |

White Summit Development, LLC PO Box 980022 Park City, Utah 84098 Acoustic Consultant BRC Acoustics 1932 1st Ave, Suite 620 Seattle, WA 98101 Pool Consultant
Cloward H20 2696 N University Ave, Suite 290 Provo, UT 84604 Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100 Midvale, Utah 84047 Specifications Writer Friday Group 88 Mainelli Road Middlebury, VT Code Consultant
Holmes 600 1st Avenue, Suite 200A Seattle, WA 98104 Fire Protection Engineer Jensen Hughes One Research Drive, Suite 305C Westborough, MA 01581 Vertical Transportation Consulatant Lerch Bates 19515 North Creek Parkway, Suite 304 Bothell, WA 98011 Structural Engineer
Magnusson Klemencic Associates 1301 5th Ave, Suite 3200 Seattle, WA 98101 <u>Lighting Designer</u> 1319 SE MLK Blvd, Suite 210 Portland, Oregon 97219 Building Envelope Consultant RDH 2101 N 34th St Seattle, WA 98103 Accessibility Consultant
Studio Pacifica 2144 Westlake Ave N, Suite F Seattle, WA 98109 1001 Fourth Ave., Suite 3100 Seattle, WA 98154 principal architect_____ project manager__JCC____

Reserved for permit stamp

drawn by__CRB, SMK_____ checked by Checker job no. 20052 date 05/17/2024

IFC Set 2 of 3 05/17/2024

FIRE ALARM NOTES, LEGEND AND DESIGN CRITERIA

FA0.00