

ABBREVIATIONS:

AFC	ABOVE FINISH CEILING	FHR	FIRE HOSE STATION
AFF	ABOVE FINISH FLOOR	FHV	FIRE HOSE VALVE
AFG	ABOVE FINISHED GRADE	ID	INSIDE DIAMETER
ALV	ALARM VALVE	ITC	INSPECTOR'S TEST CONNECTION
APPROX	APPROXIMATE	MAX	MAXIMUM
AHJ	AUTHORITY HAVING JURISDICTION	MIN	MINIMUM
AUX	AUXILIARY DRAIN	MRA	MOST HYDRAULICALLY DEMANDING AREA
		NA	NOT APPLICABLE
BFF	BELOW FINISH FLOOR	NR	NOT REQUIRED
BTU	BRITISH THERMAL UNITS	NRSV	NON-RISING STEM VALVE
BFV	BUTTERFLY VALVE	OE(OAE)	OR APPROVED EQUAL
CI	CAST IRON	OD	OUTSIDE DIAMETER
DEG(*)	DEGREE	OS&Y	OUTSIDE SCREW AND YOKE VALVE
DIA	DIAMETER		
DCA	DETECTOR CHECK ASSEMBLY	CONN	POINT OF CONNECTION
DOCA	DOUBLE DETECTOR CHECK ASSEMBLY	PI	POST INDICATOR STEM
DI	DUCTILE IRON	PIV	POST INDICATING NRSV
ELEV	ELEVATION	PSI	POUNDS PER SQUARE INCH
EX(EXIST)	EXISTING	RP	REVOLUTIONS PER MINUTE
FPS	FEET PER SECOND	SSP	STANDARD SPRINKLER
GAL	GALLON	SSU	PENDENT/STANDARD SPRINKLER
GPM	GALLONS PER MINUTE	SPEC	SPECIFICATION
HGT	HEIGHT	TEMP	TEMPERATURE
HP	HORSE POWER	UNO	UNLESS NOTED OTHERWISE

FIRE PROTECTION SYMBOLS:

SYMBOL	DESCRIPTION
●	CONCEALED PENDENT SPRINKLER
⊙	UPRIGHT SPRINKLER ON SPRIG-UP
○	UPRIGHT SPRINKLER
+	2-WAY EARTHQUAKE SWAY BRACE
+	4-WAY EARTHQUAKE SWAY BRACE
—	PIPE HANGER LOCATIONS
⊕	FIRE SPRINKLER RISER
⊕-x-x'	ELEVATION AFF
—	INSPECTOR'S TEST CONNECTION
—	RISER NIPPLE (BRANCH OR MAIN PIPE)
—	NEW PIPING
---	EXISTING PIPING
---	DEDICATED UNDERGROUND FIRE LINE
XX	HYDRAULIC REFERENCE POINT

FIRE ALARM SYMBOLS:

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
15 0.25 C	CEILING MOUNT SPEAKER AND CLEAR STROBE, 15 CANDELA AND 0.25 WATT TAP UNLESS NOTED OTHERWISE (SYSTEM SENSOR SPSCW-CLR-ALERT OR APPROVED EQUAL)	⊕ _p	SPOT-TYPE SMOKE DETECTOR (P-PHOTO, I-IONIZATION, SB-SOUNDER BASE)
15 0.25 C	WALL MOUNT SPEAKER AND CLEAR STROBE, 15 CANDELA AND 0.25 WATT TAP UNLESS NOTED OTHERWISE (SYSTEM SENSOR SPSCW-CLR-ALERT OR APPROVED EQUAL)	⊕ _s	DUCT SMOKE DETECTOR (S-SUPPLY, R-RETURN)
0.25 C	CEILING MOUNT SPEAKER, 0.25 WATT TAP UNLESS NOTED OTHERWISE (SYSTEM SENSOR SPVC OR APPROVED EQUAL)	⊕	HEAT DETECTOR (RATE OF RISE)
0.25 C	WALL MOUNT SPEAKER, 0.25 WATT TAP UNLESS NOTED OTHERWISE (SYSTEM SENSOR SP OR APPROVED EQUAL)	⊕	MANUAL PULL STATION (48" AFF UNLESS NOTED OTHERWISE)
15	CEILING MOUNT CLEAR STROBE, 15 CANDELA UNLESS NOTED OTHERWISE (SYSTEM SENSOR SCW-CLR-ALERT OR APPROVED EQUAL)	⊕	WATER FLOW SWITCH
15	WALL MOUNT CLEAR STROBE, 15 CANDELA UNLESS NOTED OTHERWISE (SYSTEM SENSOR SW-CLR-ALERT OR APPROVED EQUAL)	⊕	VALVE SUPERVISORY (TAMPER) SWITCH
FMCP	FIRE ALARM CONTROL PANEL WITH INTEGRATED MASS NOTIFICATION	⊕	DOOR HOLD OPEN MODULE, PROVIDE FIRE ALARM LISTED HOLD-OPEN ASSEMBLY IF NOT CALLED OUT IN DOOR HARDWARE SCHEDULE.
NAC 1	NOTIFICATION APPLIANCE CIRCUIT AMPLIFIER (CIRCUIT #)	⊕	ELECTRIC BELL FOR WATER FLOW, INSTALL AT 9'-0" ABOVE FINISHED GRADE OR AS DIRECTED BY FIRE MARSHAL.
		⊕	ADDRESSABLE MODULE (AIM - INPUT, AOM - OUTPUT, AIO - INPUT/OUTPUT)

NOTE: ALL SYMBOLS MAY NOT BE USED.

GENERAL SYSTEM NOTES:

- ALL SYSTEM PIPING SHALL BE HYDROSTATICALLY TESTED @ 200 PSI FOR TWO HOURS OR AT 50 PSI ABOVE THE OPERATIONAL STATIC PRESSURE OF THE SYSTEM, WHICHEVER IS GREATER.
- EACH VALVE SHALL HAVE A PERMANENTLY AFFIXED SIGN INDICATING ITS FUNCTION. ALL VALVE HANDLES MUST BE ACCESSIBLE.
- A STOCK OF SPARE SPRINKLERS, NOT LESS THAN 6, CONSISTING OF A REPRESENTATIVE MIX OF EACH STYLE AND TEMPERATURE RATING SHALL BE PROVIDED WITH A WRENCH AND BE LOCATED NEAR THE RISER. SPARE SPRINKLER CABINET WILL BE MOUNTED WHERE THE SPRINKLERS WILL NOT BE SUBJECTED TO TEMPERATURES ABOVE 100 DEG. F.
- SPRINKLERS SHALL BE A MINIMUM OF 1/2" NPT 1/2" ORIFICE K-5.6 QUICK RESPONSE. PENDENT SPRINKLERS SHALL BE INSTALLED IN THE CENTER POINTS OF THE CEILING TILES. CONCEALED SPRINKLERS WITH WHITE COVER PLATES SHALL BE INSTALLED THROUGHOUT FINISHED CEILINGS. OTHER SPRINKLERS SHALL BE GLASS BULB, BRONZE FINISHED WITH AN ORIFICE AND THREAD SIZE APPROPRIATE FOR THE HAZARD AND DENSITY.
- BRANCH LINE CONNECTIONS TO THE MAIN SHALL BE PRE-DRILLED, SHOP WELDED OUTLETS OR OTHER CONNECTIONS AS APPROVED. MECHANICAL TEES SHALL NOT BE USED ON NEW SYSTEMS. MAIN PIPING FOR THE SYSTEM SHALL BE SCHEDULE 40. BRANCH LINE PIPING FOR THIS PROJECT SHALL BE SCHEDULE 40 PIPE WITH SCREWED AND/OR WELDED FITTINGS. IF A HISTORY OF CORROSION IS NOT KNOWN TO EXIST, SCHEDULE 10 PIPING MAY BE USED.
- THREADABLE THINWALL, ENGINEERED PIPE SIZING, IE DYNATHREAD/DYNAFLOW, AND CPVC MAY NOT BE USED.
- ALL MATERIALS USED IN THE INSTALLATION OF THIS SYSTEM(S) SHALL BE NEW AND OF CURRENT ISSUE. ALL MATERIALS SHALL BE APPROVED BY UL AND BE IN CONFORMANCE WITH UFC 3-600-01, VA TIL CRITERIA, CURRENT EDITION OF NFPA-13 AS WELL AS THE AUTHORITY HAVING JURISDICTION.
- SYSTEM PIPING WILL BE SUPPORTED AND BRACED WITH HANGERS AND LISTED EARTHQUAKE BRACE ASSEMBLIES IN ACCORDANCE WITH UFC 3-600-01 AND PER NFPA-13.
- PAINTING OF THE SYSTEM PIPING AND COMPONENTS SHALL BE DONE PER A/E AND VA TIL SPECIFICATIONS. PAINTING OF THE SYSTEM PIPING AND COMPONENTS IS NOT PART OF THIS SCOPE AND, IF REQUIRED, IT SHALL BE PERFORMED BY OTHERS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN THE INTEGRITY OF THE SPRINKLER SYSTEM DURING CONSTRUCTION.
- ELEVATIONS AND DIMENSIONS SHOWN ON THESE DRAWINGS ARE NOMINAL.
- THE VERTICAL DISTANCE BETWEEN THE SPRINKLER DEFLECTOR AND THE CEILING AND/OR ROOF DECK SHALL BE A 1" MIN AND 12" MAX PER NFPA 13.
- THE SMALL-ROOM RULE MAY BE USED IN ROOMS UNDER 800 SQUARE FEET. THIS RULE ALLOWS THAT SPRINKLERS MAY BE SPACED UP TO 9' FROM ONE WALL, UP TO 225sq ft PER SPRINKLER, PROVIDED THERE IS AN 8" LITEL AT THE DOORS/OPENINGS.
- WATER VELOCITIES SHALL NOT EXCEED 20 FPS.
- SPRINKLER AREAS WILL BE LIMITED TO 225 SQUARE FEET PER HEAD. EXTENDED COVERAGE DRY SIDEWALL SPRINKLERS WILL HAVE A COVERAGE AREA OF 128 SQFT MAXIMUM WITH 8'-0" SPACING AND 16'-0" THROW.
- ALL PIPE UP TO 4" SHALL HAVE AN ANTIBACTERIAL PROTECTIVE COATING EQUIVALENT TO ALLIED TUBE AND CONDUIT M-COTE, AND BE SHOWN TO NOT BE INCOMPATIBLE WITH CPVC. CONTRACTOR TO VERIFY WITH www.systemcompatible.com
- AUTOMATIC SPRINKLER SYSTEMS SHALL BE SUPERVISED AND INTERFACE WITH NEW FIRE ALARM SYSTEM.
- THE CONTRACTOR SHALL PROVIDE THE INSPECTOR WITH COPY OF: THE "TEST CERTIFICATE FOR UNDERGROUND PIPING" IN ACCORDANCE WITH NFPA 24; THE "CONTRACTOR'S MATERIAL & TEST CERTIFICATE FOR ABOVEGROUND PIPING" IN ACCORDANCE WITH NFPA 13; AND THE "RECORD OF COMPLETION" FOR FIRE ALARM SYSTEMS IN ACCORDANCE WITH NFPA 72. THESE DOCUMENTS SHALL BE PRESENTED UPON SUCCESSFUL COMPLETION OF THE SYSTEM TEST AND PRIOR TO ACCEPTANCE OF THE SYSTEM.
- ONE SET OF STAMPED, APPROVED DRAWINGS SHALL BE ON SITE AT ALL TIMES AND MADE AVAILABLE TO INSPECTORS ON DEMAND.
- FIRE DEPARTMENT VEHICLE ACCESS ROADWAYS SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION. REQUIRED WATER FLOW SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION AND PRIOR TO ANY COMBUSTIBLES BEING BROUGHT ON SITE.
- FIRE PROTECTION SYSTEMS SHALL BE INSTALLED BY A CONTRACTOR LICENSED TO PERFORM SUCH WORK IN THE PROJECT JURISDICTION.

FIRE PROTECTION GENERAL NOTES:

- THE CONTRACTOR SHALL PROVIDE AND INSTALL AN AUTOMATIC FIRE SPRINKLER SYSTEM TO FULLY PROTECT THIS FACILITY. THE FIRE SPRINKLER SYSTEM SHOWN THESE DRAWING IS BASED ON PRESCRIPTIVE DESIGN AND CONCEPTUAL ONLY.
- THE SPRINKLER CONTRACTOR SHALL SUBMIT COMPLETE FIRE SPRINKLER SYSTEM SHOP DRAWINGS BASED ON NFPA 13, UFC 3-600-01, AND SPECIFICATION REQUIREMENTS AND SUBMIT FOR APPROVAL PRIOR TO INSTALLATION.
- THE EQUIPMENT SHOWN ARE SUGGESTED LOCATIONS HOWEVER FINAL LAYOUT SHALL BE IN ACCORDANCE WITH APPLICABLE CODES, MANUFACTURER'S RECOMMENDATIONS, AND EQUIPMENT LISTINGS. CONTRACTOR SHALL COORDINATE BRANCH LINE AND SPRINKLER HEAD LOCATIONS WITH CEILING PANELS, LIGHTING FIXTURES, HVAC DUCTS AND AIR DEVICES, PLUMBING AND OTHER TRADES NOT SPECIFICALLY NAMED.
- ALL EQUIPMENT SHALL BE UL LISTED AND FM APPROVED IN ACCORDANCE WITH UFC 3-600-01, VA TIL CRITERIA, NFPA 13 AND PROJECT SPECIFICATIONS.
- SPRINKLER PIPE LOCATED IN EXIT CORRIDORS MUST ONLY SUPPLY SPRINKLERS IN THE CORRIDOR. NO PIPE MAY PASS THROUGH CORRIDOR TO OTHER AREAS.
- CONTRACTOR SHALL SUBMIT SETS OF FIRE SUPPRESSION PLANS, DATA CUT-SHEETS, AND HYDRAULIC CALCULATIONS TO COR FOR REVIEW AND APPROVAL PRIOR TO BEGINNING ANY WORK ON THE FIRE SUPPRESSION SYSTEM.
- THE CONTRACTOR SHALL CONDUCT WATER SUPPLY HYDRANT TEST FOR THIS PROJECT BASED ON NFPA 291 REQUIREMENTS AND UTILIZE THIS DATA TO DESIGN THE SPRINKLER SYSTEM. THE HYDRANT LOCATIONS, FLOW TESTS, AND DATE SHALL BE INDICATED ON THE SHOP DRAWINGS. AUTOMATIC SPRINKLER PROTECTION SYSTEM IS REQUIRED TO PROTECT THIS ENTIRE FACILITY. A MINIMUM 10% SAFETY FACTOR IS REQUIRED BETWEEN THE AVAILABLE WATER SUPPLY AND THE SPRINKLER SYSTEM DEMAND.
- PROVIDE EARTHQUAKE PROTECTION (SWAY BRACING), END OF BRANCH LINE AND SEISMIC BRACING CALCULATION IN ACCORDANCE WITH NFPA 13 REQUIREMENTS. MINIMUM Cp TO BE DETERMINED BASED ON STRUCTURAL DESIGN DOCUMENTS OR USGS DATA FOR SITE SPECIFIC SHORT PERIOD SPECTRAL RESPONSE (Ss).
- FIRE PROTECTION DEVICES AND PIPING ON PLANS ARE NOT FOR CONSTRUCTION, THEY ARE FOR COST ESTIMATING ONLY.
- THE CONTRACTOR SHALL CONFORM TO THE SYMBOLS INDICATED IN NFPA 170 TO DEVELOP THE AS-BUILT DRAWINGS FOR THIS PROJECT.
- FLEXIBLE COUPLINGS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13, CHAPTER 9.
- ALL DRAIN PIPING SHALL BE COORDINATED WITH AND APPROVED BY AE FOR ARRANGEMENT, LOCATION (DOWNSPOUT, DOCK, PARKING LOT, ETC.) AND APPROPRIATENESS OF THE MEANS OF DISCHARGE (STORM SEWER, SANITARY SEWER, BIOSWALE, ETC.) THAT WILL HANDLE THE FULL FLOW OF THE DRAIN WITHOUT SPECIAL TOOLS OR EQUIPMENT AND WITHOUT DAMAGE TO LANDSCAPING OR PAVEMENT.
- INSPECTOR'S TEST CONNECTION SHALL BE NOT LARGER THAN 1/2" ORIFICE AND BE LOCATED ON THE REMOTE BRANCHLINE.

FIRE ALARM GENERAL NOTES:

- FIRE ALARM SYSTEM AND DEVICES SHALL BE INSTALLED TO THE LATEST EDITION OF NFPA 72, NFPA 70, NFPA 13, UFC 3-600-01, 4-021-01, AND THE VA TIL.
- ALL FIRE ALARM INSTALLATIONS, INCLUDING PULLING OF WIRE AND MOUNTING OF DEVICES, SHALL HAVE OVERSIGHT OF A NICET LEVEL II FIRE ALARM TECHNICIAN OR HIGHER.
- STROBES SHALL BE SYNCHRONIZED BY CIRCUIT.
- ALL FIRE ALARM CABLE SHALL BE RUN IN RED FACTORY COLORED CONDUIT.
- THESE DESIGN DOCUMENTS PROVIDE GENERAL SPACING, LOCATION, AND COORDINATION CRITERIA. CONTRACTOR SHALL BE RESPONSIBLE FOR CIRCUIT CONFIGURATION, SYSTEM PERFORMANCE, SOFTWARE CONFIGURATION, DEVICE PROGRAMMING, SYSTEM COMMISSIONING, AND SYSTEM WARRANTY.
- CONTRACTOR SHALL SUBMIT FIRE ALARM PLANS, DATA CUT-SHEETS, AND VOLTAGE DROP CALCULATIONS TO COR, AND A/E FOR REVIEW AND APPROVAL PRIOR TO BEGINNING ANY WORK ON THE FIRE ALARM SYSTEM.
- NO FIRE ALARM DOCUMENTS/PLANS SHALL BE USED FOR INSTALLATION OF THIS SYSTEM UNLESS THEY CONTAIN A REVIEW AND APPROVAL STAMP FROM THE COR, AND A COMPLETED REVIEW BY A/E, THE OWNER, CROMWELL, THE COR AND/OR AE HAS THE AUTHORITY TO STOP ANY WORK UNTIL SUCH PLANS ARE ON SITE AND IN USE.
- SEPARATE FIRE ALARM SPECIFICATIONS CONTAIN VERY DETAILED INFORMATION ABOUT THIS SYSTEM AND SHALL BE FOLLOWED, ON-SITE AND AVAILABLE DURING ANY CONSTRUCTION.
- SECONDARY POWER PERFORMANCE TO MEET NFPA 72, UFC 4-021-01, AND VA TIL CRITERIA. 72 HOURS OF STANDBY POWER FOLLOWED BY 15 MINUTES OF ALARM FOR ALL CONNECTED DEVICES AT MAXIMUM LOAD. SECONDARY POWER FOR THE SYSTEM SHALL ALSO BE DESIGNED TO OPERATE MAXIMUM CONNECTED ALARM LOAD FOR 80 MINUTES IMMEDIATELY FOLLOWING DISCONNECTION OF PRIMARY POWER.
- SPEAKER CIRCUITS TO BE 70V TYPICAL. OTHER CIRCUITS TO BE 24V TYPICAL.
- ALL NEW SYSTEMS AND DEVICES MUST INTERFACE WITH APPLICABLE EXISTING SYSTEMS. NEW PANEL AND DEVICES MUST COMMUNICATE WITH EXISTING SITE FIRE ALARMS.

FIRE ALARM ACCEPTANCE TESTING:

- A COMPLETED AND SIGNED RECORD (CERTIFICATE) OF COMPLETION FORM SHALL BE PROVIDED BY THE CONTRACTOR TO THE AHJ, OWNER, AND ARCHITECT ENGINEER PRIOR TO COMMISSIONING TESTING. THIS CERTIFICATE SHALL CERTIFY THAT THE CONTRACTOR HAS PRE-TESTED EVERY DEVICE AND FUNCTION OF THE SYSTEM AND REPAIRED ANY DEFICIENCIES PRIOR TO THE COMMISSIONING TEST.
- ALL SMOKE DETECTORS SHALL BE COMMISSIONED USING CANNED SMOKE OR A METHOD THAT WILL FUNCTIONALLY TEST THE SMOKE CHAMBER. IF THE USE OF MAGNETS FOR COMMISSION TESTING OF SMOKE DETECTORS IS STRICTLY PROHIBITED.
- EACH AND EVERY DEVICE SHALL BE TESTED DURING COMMISSIONING AND PRIOR TO BEING TURNED OVER TO THE OWNER.
- EACH NOTIFICATION CIRCUIT SHALL BE TESTED UNDER STANDBY/BATTERY POWER. END-OF-LINE VOLTAGE READINGS SHALL BE TAKEN THE BOOSTER PANEL FOR CLASS "A" CIRCUITS. ANY CIRCUIT THAT MEASURES LESS THAN 20 VOLTS DC OR THE NAMEPLATE VOLTAGE, WHICHEVER IS HIGHER, SHALL BE CONSIDERED AS FAILING THE DESIGN. NOTE: SOME SYSTEMS INCORPORATING SYNCHRONIZING MODULES CAN IMPAIR RESULTS. IF THE MODULE CANNOT BE BYPASSED FOR VOLTAGE READINGS, THE MANUFACTURER SHOULD BE CONTACTED FOR GUIDANCE. WHEN VOLTAGE CANNOT BE MEASURED, CIRCUIT WIRE RESISTANCE READINGS AND DEVICE LOAD MAY BE COMPARED TO DESIGN CALCULATIONS (MAKE SURE CIRCUIT IS REMOVED FROM POWER SUPPLY WHEN OBTAINING WIRE RESISTANCE). ONLY A QUALIFIED TECHNICIAN EMPLOYED BY THE INSTALLING CONTRACTOR SHOULD PERFORM THIS FUNCTION.
- EACH CIRCUIT'S END-OF-LINE VOLTAGE SHALL BE DOCUMENTED FOR COMPARISON TO THE DESIGN END-OF-LINE CALCULATIONS.

FIRE ALARM PERFORMANCE:

- ANY SMOKE DETECTOR THAT HAS BEEN INSTALLED PRIOR TO THE CONSTRUCTION CLEANUP OF ALL TRADES AND WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER AND LOCAL AHJ SHALL BE MARKED IN A MANNER THAT WILL IDENTIFY IT FROM RE-USE AND SHALL BE REPLACED PRIOR TO COMMISSIONING OF THE SYSTEM OR TURNING OVER TO THE OWNER. SUCH DETECTORS SHALL BE REPLACED AT THE SOLE EXPENSE OF THE INSTALLING CONTRACTOR.
- DUCT DETECTORS SHALL BE MONITORED FOR INTEGRITY AND PROVIDE A SUPERVISORY SIGNAL AT THE FIRE ALARM PANEL. AIR HANDLER SYSTEMS SHALL BE RAN AND BLOWN OUT PRIOR TO INSTALLATION OF SMOKE DETECTORS.
- FIRE ALARM AUDIBLE ALERT SIGNALS SHALL BE SET TO TEMPORAL CODE PER NFPA 72. MASS NOTIFICATION AUDIBLE CUES SHALL TAKE PRECEDENCE AND OVERRIDE FIRE ALARM AND PAUMUSIC TONES.
- INTELLIGIBILITY OF VOICE MESSAGES SHALL BE PER UFC 4-021-01 AND SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MEET OR EXCEED. COMMISSION TESTING SHALL BE DONE PRIOR TO FINAL SYSTEM ACCEPTANCE TO VERIFY THAT THE MINIMUM CIS/STI SCORES HAVE BEEN ACHIEVED.
- UNLESS OTHERWISE NOTED THE FOLLOWING MINIMUM SURVIVABILITY CRITERIA SHALL BE MET: SIGNALING LINE CIRCUITS CLASS "A", AND NOTIFICATION CIRCUITS CLASS "A".
- INITIATING DEVICES SHALL BE INDIVIDUALLY ADDRESSABLE.

FIRE ALARM LOCATION/SPACING:

- IN ACCORDANCE WITH 2013 NFPA 72, STROBES MAY BE MORE THAN 15 FEET OFF THE END OF A CORRIDOR WHEN ROOM SPACING CRITERIA APPLIES USING THE APPROPRIATE CANDELA.
- WALL MOUNTED SPEAKERS, STROBES, OR SPEAKER/STROBES SHALL BE AT 96" OR 6" BELOW THE CEILING, WHICHEVER IS LOWER.
- ALL SMOKE DETECTORS SHALL BE LOCATED WHERE THEY CAN BE READILY SERVICED.
- ALL SMOKE DETECTORS SHALL BE CEILING MOUNTED OR WITHIN 12" OF THE CEILING.
- SMOKE DETECTORS SHALL NOT BE INSTALLED WITHIN 3' OF AN AIR-SUPPLY OR RETURN GRILL PER MFG CRITERIA AND APPENDIX "A" OF NFPA 72.
- EACH POWER BOOSTER PANEL OR FIRE ALARM PANEL SHALL BE PROTECTED BY A SMOKE DETECTOR. WHEN PROVIDED, AREA DETECTORS WITHIN THE SAME SPACE WILL SATISFY THIS REQUIREMENT.
- AIR HANDLER SYSTEMS OVER 2,000 CFM SHALL BE PROVIDED WITH MEANS TO SHUT DOWN UPON THE DETECTION OF SMOKE. PER BASE POLICY, THESE DETECTORS SHALL NOT INITIATE A GENERAL FIRE ALARM.
- DAMPER AND HVAC SMOKE DETECTORS SHALL BE PROVIDED BY THE FIRE ALARM CONTRACTOR, LISTED WITH THE FIRE ALARM SYSTEM, AND INCORPORATE ADDRESSABLE MODULES.
- WHERE APPLICABLE, SMOKE DETECTORS FOR AIR-HANDLER SHUT DOWN SHALL BE ON BOTH SUPPLY AND RETURN DUCTS.



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Drawing Title
FIRE PROTECTION LEGEND AND NOTES

Approved: Project Director

Project Title
CONSTRUCT NEW OR SUITE

Location
4300 WEST 7TH STREET
LITTLE ROCK, AR 72205

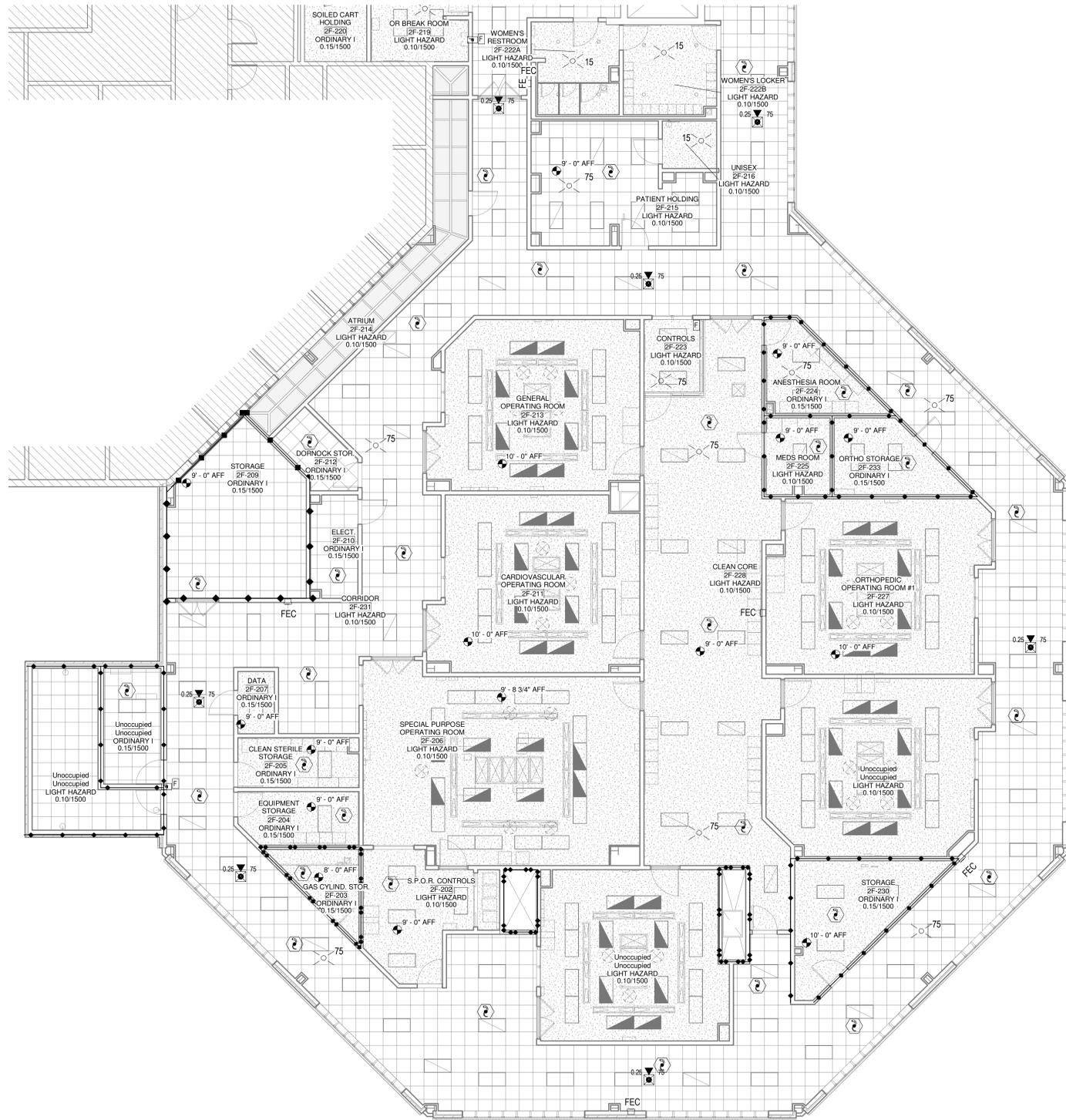
Project Number
598-12-207

Building Number
JLM

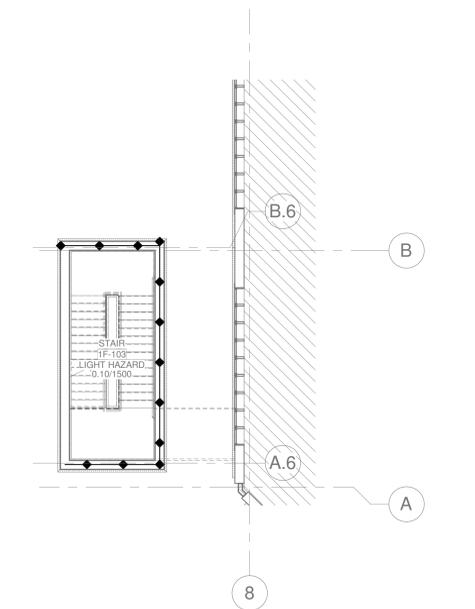
Drawing Number
FI001

CENTRAL ARKANSAS VETERANS AFFAIRS HEALTHCARE SYSTEM

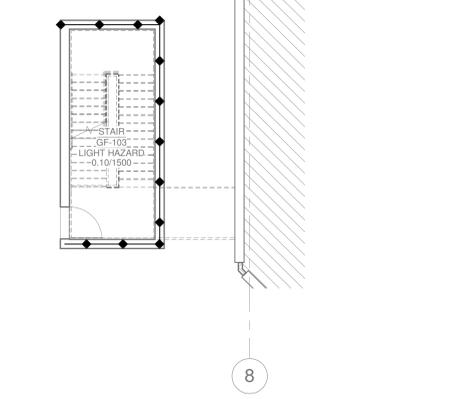




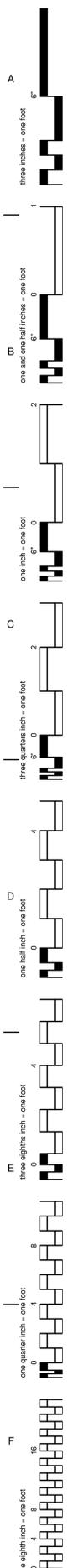
1 SECOND FLOOR FIRE PROTECTION PLAN - NEW AREA
1/8" = 1'-0"



2 FIRST FLOOR FIRE PROTECTION STAIR PLAN
1/8" = 1'-0"



3 GROUND FLOOR FIRE PROTECTION STAIR PLAN
1/8" = 1'-0"



CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED
SCALE: 1/8" = 1'-0"

CONSULTANTS: ENGINEERING: CROMWELL, A/E 101 SOUTH SPRING ST. LITTLE ROCK, AR 72201 501.372.2900				ARCHITECT/ENGINEERS: BES DESIGN/BUILD, LLC 766 Middle St, Fairhope, AL 36532 Phone: 251.990.5778 Fax: 251.990.3716		Drawing Title SECOND FLOOR FIRE PROTECTION PLAN - NEW AREA		Project Title CONSTRUCT NEW OR SUITE		Project Number 598-12-207		Building Number JLM		Location 4300 WEST 7TH STREET LITTLE ROCK, AR 72205		Drawing Number FP101		Date 2015.01.23		Drawn BMG		Checked RLS		Dwg. 68 of 125		CENTRAL ARKANSAS VETERANS AFFAIRS HEALTHCARE SYSTEM 	
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