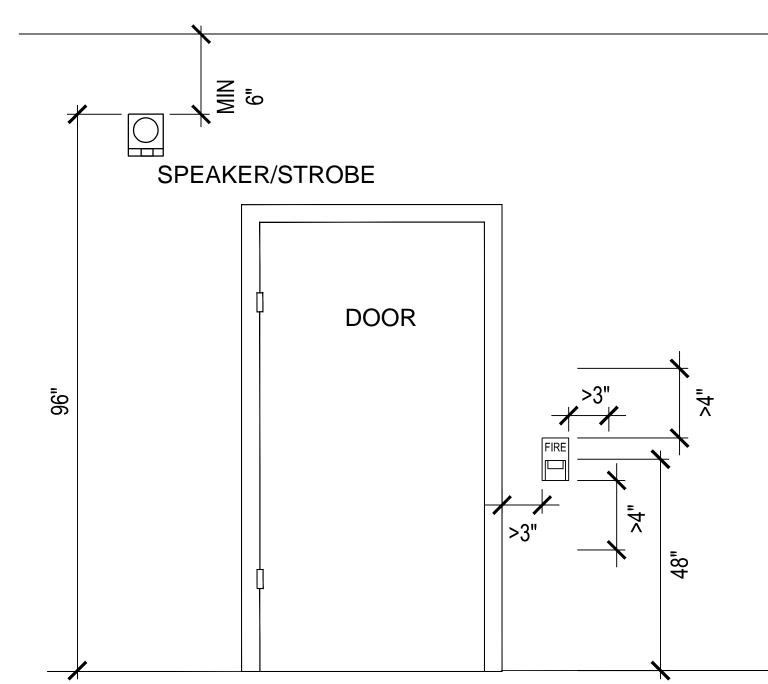


MOUNT SECURELY TO WALL. BOX TO BE FLUSH IN WALL. BOX COVER TO BE PAINTED TO MATCH WALL. ALLOW SPACE AND FLEX CONDUIT FOR AIMING / ADJUSTING DIRECTION OF SPEAKER. USE LIQUID TIGHT METAL FLEX CONDUIT LISTED FOR SUNLIGHT RESISTANCE, EQUAL TO SOUTHWIRE TITAN UL.





MOUNT PULL STATION AT 48" AFF TO CENTER OF DEVICE. MOUNT PULL STATION SO THAT THERE IS MINIMUM 3" CLEAR ON EITHER SIDE AND MINIMUM 4" CLEAR TOP AND BOTTOM FOR INSTALLATION OF VANDAL PROOF COVER WHEN IDENTIFIED, OR FOR FUTURE.

WALL MOUNTING DEVICE DETAIL

NOT TO SCALE

HAZARDOUS MATERIALS WARNING

Unexpected Discovery of Asbestos

For any previously untested building components suspected to contain asbestos and located in areas to be impacted by the work, samples will need to be collected of any materials found to determine the presence or absence of asbestos. The sampling must be performed by an AHERA accredited Asbestos Building Inspector. The Contractor, and the Contractor's Competent Person, Project Supervisor, and other required personnel shall meet with designated building personnel prior to beginning work at a safety pre-construction meeting to discuss details of site safety, including the preparation of any Accident Prevention Plans (APPs), emergency plans, Asbestos Hazard Abatement Plans (AHAPs) or any other applicable safety documents. Deficiencies of any supplied documents will be discussed and all documents must meet final approval prior to the commencement of work. The Contractor shall incur all costs, including all sampling/analytical costs to assure compliance with OSHA/EPA/State requirements related to regulations applicable to the work.

DESIGN CONCEPTS:

- 1. DESIGN IS BASED ON A COMPILATION OF CRITERIA FROM THE INTERNATIONAL BUILDING CODE, LIFE SAFETY CODE, VETERANS ADMINISTRATION DESIGN MANUALS, VA SPECIFICATIONS, ETC. CONTRACTORS SHALL PAY CLOSE ATTENTION TO DOCUMENTS FOR UNIQUE CONDITIONS.
- 2. PER THE VA, FIRE ALARM SYSTEM IS TO BE INSTALLED IN ACCORDANCE WITH PRIVATE MODE PROVISIONS.
- 3. NEW SYSTEM SHALL TIE INTO EXISTING CAMPUS NETWORK THROUGH FIBER OPTIC CONNECTION LISTED FOR FA USE.

EXTRA EQUIPMENT:

- 1. CONTRACTOR SHALL PROVIDE FOR THE FOLLOWING EXTRA COMPONENTS INCLUDING WIRE, CONDUIT, LABOR, ETC. THESE DEVICES MAY BE ADDED AT THE DIRECTION OF THE ARCHITECT ENGINEER SUCH AS DURING CONSTRUCTION DUE TO FLOOR PLAN CHANGES, OR DURING TESTING TO IMPROVE COVERAGE / AUDIBILITY. THIS COUNT IS FOR THIS BUILDING ONLY.
- 1.1. TWO 4" SPEAKERS WITH BACK BOX
- TWO COMBINATION SPEAKER / STROBE ASSEMBLIES WITH BACKBOX. SELECTABLE CANDELA.
- 1.3. TWO SELECTABLE CANDELA STROBES WITH BACKBOX.
- 1.4. ONE MANUAL PULL STATION
- 1.5. TWO RELAY / CONTROL MODULES
- 1.6. ONE ADDRESSABLE DUCT DETECTOR AND HOUSING.
- 2. APPLIANCES THAT ARE NOT USED SHALL BE TURNED OVER TO THE OWNER AS SPARE PARTS. THESE ARE IN ADDITION TO ANY OTHER SPARE PARTS REQUIRED BY SPECIFICATION.
- 3. ALL COMPONENTS ABOVE SHALL BE OF THE SAME MODEL AND STYLE USED ELSEWHERE IN PROJECT.

FIRE ALARM NOTES:

- 1. FIRE ALARM SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE 2010 EDITION OF NFPA 72 AND SPECIFIC VETERANS ADMINISTRATION CRITERIA.
- 2. AN ANALOG ADDRESSABLE VOICE FIRE ALARM SYSTEM SHALL BE INSTALLED.
- 3. CIRCUITS SHALL BE CLASS "B" UNLESS INDICATED OTHERWISE.
- 4. REMOTE ANNUNCIATORS SHALL BE BEHIND A LOCKED ENCLOSURE AND SHALL BE FLUSH MOUNTED IN THE WALL WHERE INDICATED.
- AUDIO VISUAL DEVICES INCLUDING SPEAKERS AND STROBES SHALL BE WALL MOUNTED UNLESS INDICATED OTHERWISE.

6. SPEAKER ORIENTATION (BACK BOX) SHALL BE

- INSTALLED TO DIRECT SOUND IN THE DIRECTION INDICATED BY THE RESPECTIVE FLOOR PLAN 7. STROBES AND SPEAKER/STROBES THAT ARE WALL
- MOUNTED SHALL BE MOUNTED AT 96" AFF, WHILE MAINTAINING 6" BELOW THE CEILING.
- 8. NOTIFICATION DEVICES SHALL BE TRIMMED IN RED. 9. ACCESS CONTROL DOORS SHALL RELEASE UPON
- ACTIVATION OF BUILDING EVACUATION ALARM. PROVIDE RELAY MODULE AT EACH DOOR THAT INCORPORATES ACCESS CONTROL TO DIRECTLY INTERRUPT POWER AND THUS OPENING RESPECTIVE DOOR
- 10. VISUAL DEVICES ARE NOT REQUIRED IN EXAM ROOMS PER VA CRITERIA.
- 11. PER USER, NOTIFICATION IS TO BE PER PRIVATE
- 12. ALL FIRE ALARM RELATED CIRCUITS SHALL BE IN RED CONDUIT.
- 13. CIRCUITS SHALL BE COLOR CODED SO THAT SPEAKER CIRCUITS, STROBE CIRCUITS, AND SIGNALING CIRCUITS ARE COLORED DIFFERENTLY.
- 14. CONTRACTOR SHALL COORDINATE FIRE ALARM SYSTEM WITH ACCESS CONTROLLED LOCKING SYSTEMS TO OPEN DOORS PER CODES.
- 15. CONTRACTOR SHALL REVIEW MECHANICAL DRAWINGS FOR COORDINATION OF FIRE ALARM AND HVAC SYSTEM CONTROLS AND EQUIPMENT.
- 16. CONTRACTOR SHALL REVIEW ELECTRICAL DRAWINGS FOR COORDINATION OF FIRE ALARM AND
- ELEVATOR CONTROLS AND EQUIPMENT. 17. CONTRACTOR TO COORDINATE EXACT LOCATION AND NUMBER OF TAMPER SWITCH MODULES WITH SUPPRESSION DRAWINGS AS CONDITIONS MAY

CHANGE DURING CONSTRUCTION AND FIELD

CHANGES. 18. CONTRACTOR SHALL ROUTE SPEAKER CIRCUITS BASED ON THEIR AMPLIFIER CIRCUITS. CONTRACTOR SHALL PROVIDE NEW CIRCUITS FOR THIS SCOPE AND SHALL PROVIDE CALCULATIONS FOR VOLTAGE / DB LOSS.

FIRE ALARM NOTES CONTINUED:

- 1. ACTIVATION OF FIRE ALARM SYSTEM SHALL RELEASE MAGNETIC DOOR HOLD OPEN DEVICES. PROVIDE ADDRESSABLE RELAY/MODULE TO INTERRUPT POWER BETWEEN ACCESS CONTROL SYSTEM AND HOLD-OPENS. MAGNETIC DOOR HOLD-OPENS WILL BE POWERED BY NAC AUX CIRCUIT. HOLD-OPENS CONTROLLED THROUGH ACCESS CONTROL CLOCK TO RELEASE AND CLOSE DURING NON-BUSINESS HOURS. FIRE ALARM
- RELAY/MODULE SHALL INTERRUPT POWER AT DOORS. 2. TWO DOOR MODULES ARE SHOWN AT EACH SET OF DOORS. ONE IS INTENDED FOR MAGNETIC HOLD-OPEN RELEASE. THE OTHER IS INTENDED FOR RELEASE OF LOCKING MECHANISM.
- 3. PROVIDE WALL MOUNTED 24VOLT HOLDERS.

NETWORK INTEGRATION:

- 1. THE FIRE ALARM SYSTEM INSTALLED UNDER THIS PROJECT SHALL COMPLY WITH THE FOLLOWING CRITERIA TO ENSURE INTEGRATION WITH EXISTING SITE EQUIPMENT AND STANDARDS.
- 2. FIRE ALARM PANEL SHALL BE AN EDWARDS EST-3.
- 3. FIRE ALARM CONTROL PANEL SHALL BE INSTALLED WITHIN A CAB-21 ENCLOSURE.
- 4. CONTROL PANEL SHALL INCORPORATE ASU COMPONENTS FOR VOICE NOTIFICATION.
- INSTALLATION SHALL INCLUDE INTEGRATION, PROGRAMMING, AND GRAPHICS USING THE FIRE WORKS PLATFORM. BUILDING AREAS UNDER THIS SCOPE SHALL BE INCORPORATED INTO THE EXISTING NETWORK AND GRAPHICS PACKAGE.
- 6. INTERCONNECTION BETWEEN NEW CONTROL PANELS AND THE EXISTING BUILDING FIRE ALARM NETWORK SHALL BE THROUGH FIBER OPTICS, MULTI-MODE 62.5.
- 7. CONTRACTOR SHALL ESTABLISH THE BEST ROUTE FOR NEW FIBER TO INTERFACE WITH EXISTING FIBER POINTS OF CONNECTION.

DELAYED-EGRESS LOCKING SYSTEMS:

- APPROVED AND LISTED DELAYED-EGRESS SYSTEMS SHALL COMPLY WITH NFPA 101, SECTION 7.2.1.6, AND THE FOLLOWING:
- 2. DOOR LEAVES SHALL UNLOCK UPON ACTIVATION OF THE **FOLLOWING:**
- 2.1. ACTIVATION OF AUTOMATIC SPRINKLER SYSTEM, OR 2.2. ANY AREA SMOKE DETECTOR, OR
- 2.3. ANY MANUAL PULL STATION
- UPON LOSS OF POWER TO THE LOCKING SYSTEM.
- 4. AN IRREVERSIBLE PROCESS SHALL RELEASE THE LOCK WITHIN 15 SECONDS UPON APPLICATION OF A FORCE TO THE RELEASE DEVICE UNDER THE FOLLOWING:
- 4.1. THE FORCE SHALL NOT EXCEED 15 LBF.
- 4.2. THE FORCE SHALL NOT BE REQUIRED TO BE APPLIED FOR MORE THAN 3 SECONDS TO INITIATE.
- 4.3. UPON INITIATION AN AUDIBLE SIGNAL SHALL ACTIVATE IN THE PROXIMITY OF THE DOOR.
- 4.4. ONCE ACTIVATED, RELOCKING SHALL BE BY MANUAL MEANS.
- 5. A READILY VISIBLE AND DURABLE SIGN IN LETTERS NOT LESS THAN 1-INCH HIGH AND NOT LESS THAN 1/8-INCH STROKE WIDTH ON A CONTRASTING BACKGROUND THAT READS "PUSH UNTIL ALARM SOUNDS DOOR CAN BE OPENED IN 15 SECONDS".
- 6. DOORS SHALL BE CONFIGURED TO IMMEDIATELY RELEASE UPON FUNCTIONS BY STAFF MEMBERS WHICH
- MAY INCLUDE SWIPING A CARD, ENTERING A CODE, ETC. 7. ACTIVATION OF FIRE ALARM ON EITHER SIDE OF DOORS SHALL AUTOMATICALLY RELEASE DOORS ALLOWING TRAVEL IN EITHER DIRECTION.

FIRE ALARM LEGEND

Ø co	CEILING MOUNT SPEAKER/STROBE, 15 CANDELA UNLESS MARKED OTHERWISE
\Rightarrow	CEILING MOUNT STROBE, 15 CANDELA UNLESS MARKED OTHERWISE
\bigcirc	CEILING MOUNT SPEAKER
F CD	WALL MOUNT SPEAKER/STROBE ~96" TO TOP. 15 CD OR AS INDICATED.
F	WALL MOUNT SPEAKER ~96" TO TOP.
F CD	WALL MOUNT STROBE ~96" TO TOP. 15 CD OR AS INDICATED.
[2]	SMOKE DETECTOR (PHOTOELECTRIC);

DUCT SMOKE DETECTOR; S=SUPPLY, R=RETURN MANUAL PULL STATION 48" AFF.

FS | FLOW SWITCH MODULE

TS | TAMPER SWITCH MODULE

DOOR HOLD-OPEN RELAY/MODULE. SEE NOTES AND COORDINATE WITH ACCESS CONTROL SYSTEM AND DOOR

HARDWARE.

RELAY / CONTROL / MONITOR MODULE ADDRESSABLE FIRE ALARM CONTROL PANEL WITH VOICE COMPONENT

REMOTE ANNUNCIATOR & CONTROL PANEL; FLUSH MOUNT

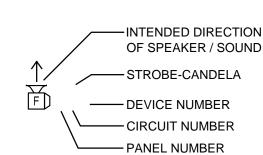
24 VDC ELECTRIC BELL FOR WATER FLOW; ~9' AFF

NOTIFICATION APPLIANCE CIRCUIT

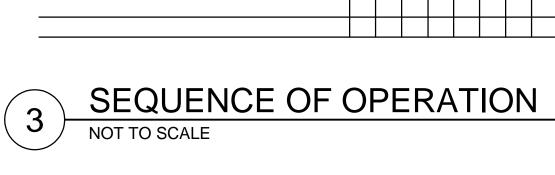
ADDRESSABLE FIRE ALARM SLAVE PANEL SEMI-RECESSED UNLESS

INDICATED OTHERWISE. WP | WEATHER PROOF / WET LOCATIONS EOL | END OF LINE RESISTOR

DEVICE INFORMATION



SIGNAL LINE CIRCUIT NUMBER AND DEVICE (MAY BE LEFT UP TO CONTRACTOR TO #)



ACTION PERFORMED >>

INITIATION SOURCE:

SMOKE DETECTOR COMMON AREA

SPRINKLER ISOLATION TAMPER

ELEVATOR LOBBY SMOKE DETECTOR

WATER FLOW SWITCH(S) AT ELEVATOR

ELEVATOR MACHINE ROOM SMOKE

SHORT/GROUND/FAULT/OPEN

ELEVATOR HOISTWAY SMOKE

GENERAL FIRE EVAC

MANUAL PULL (FIRE) DUCT DETECTOR

WATER FLOW

RESERVED





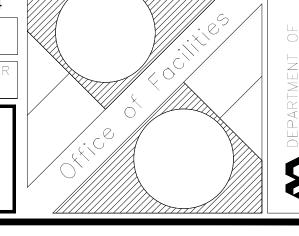
DESCRIPTION DATE

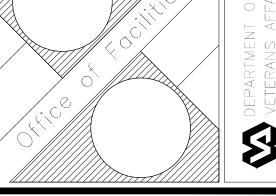
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ROVED: ASSOCIATE DIRECTOR	APPROVED: CHIEF ENGINEER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
ROVED: CHIEF OF STAFF	APPROVED: WOMEN VET. PROG. COORD.	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:

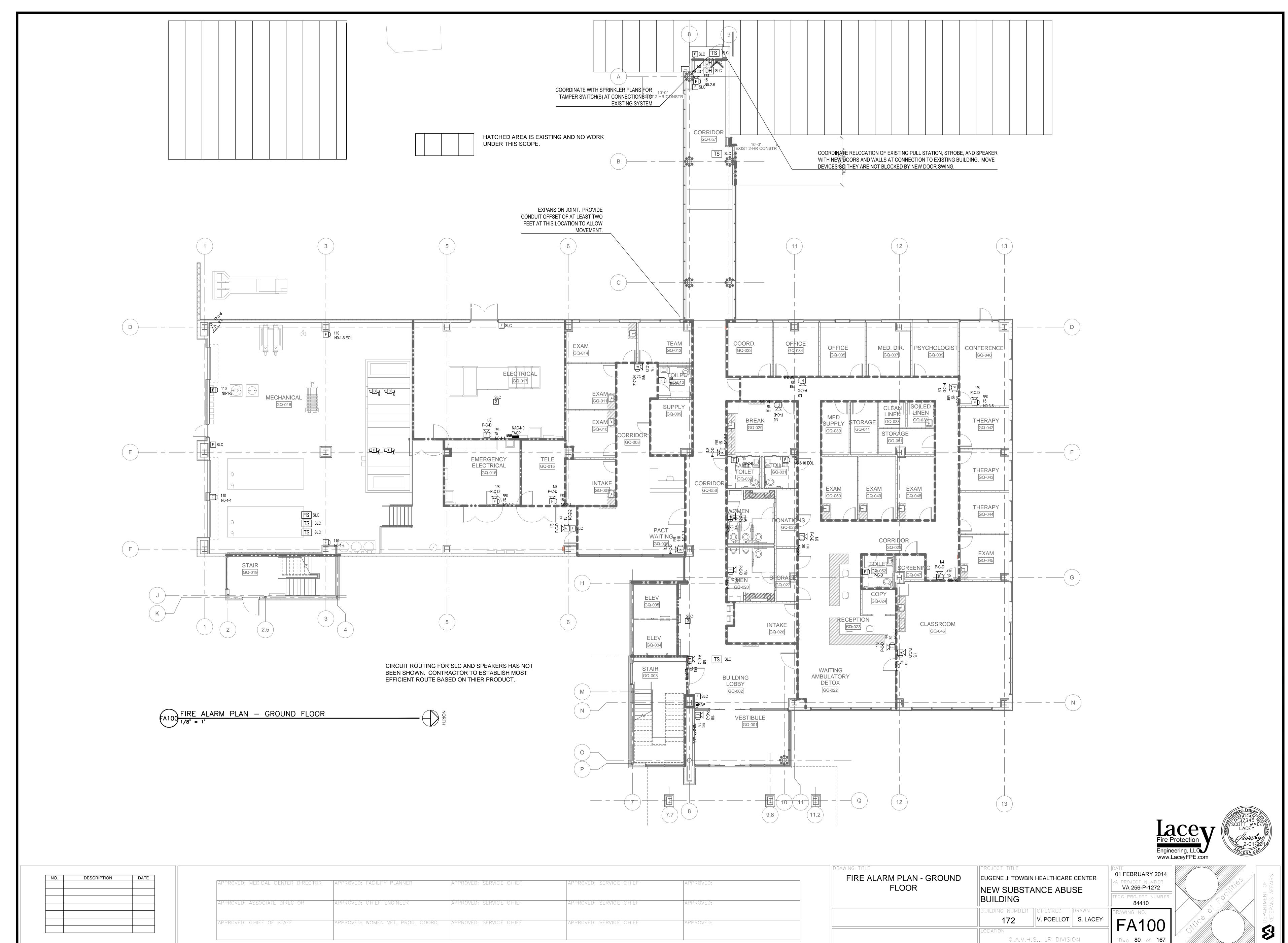
DRAWING TITLE	PROJECT TITLE
FIRE ALARM DETAILS & NOTES	EUGENE J. TOWBIN HEALTHCARE CENTER
	NEW SUBSTANCE ABUSE BUILDING

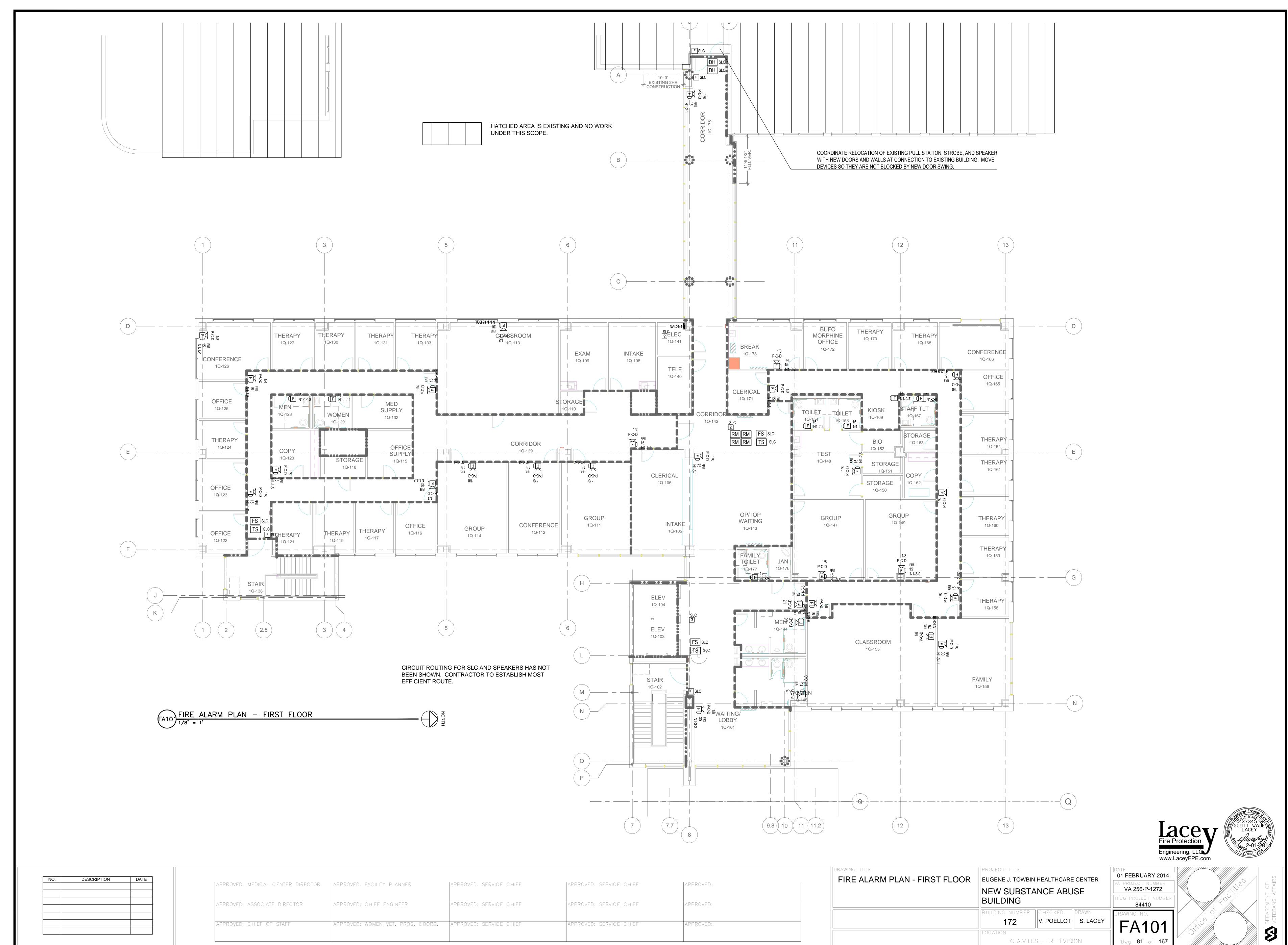
BUILDING NUMBER | CHECKED | DRAWN V. POELLOT S. LACEY C.A.V.H.S., LR DIVISION

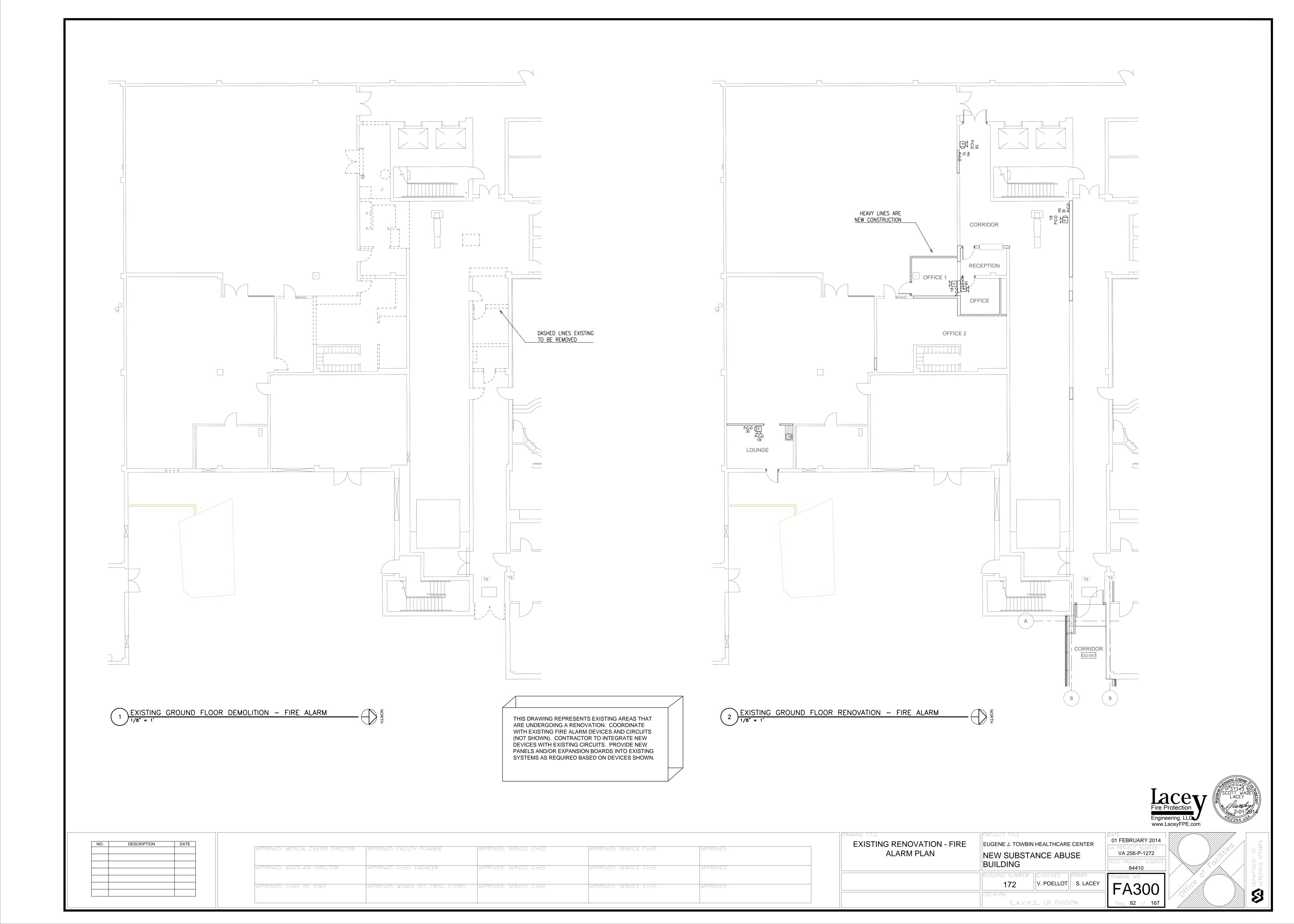
01 FEBRUARY 2014 VA 256-P-1272

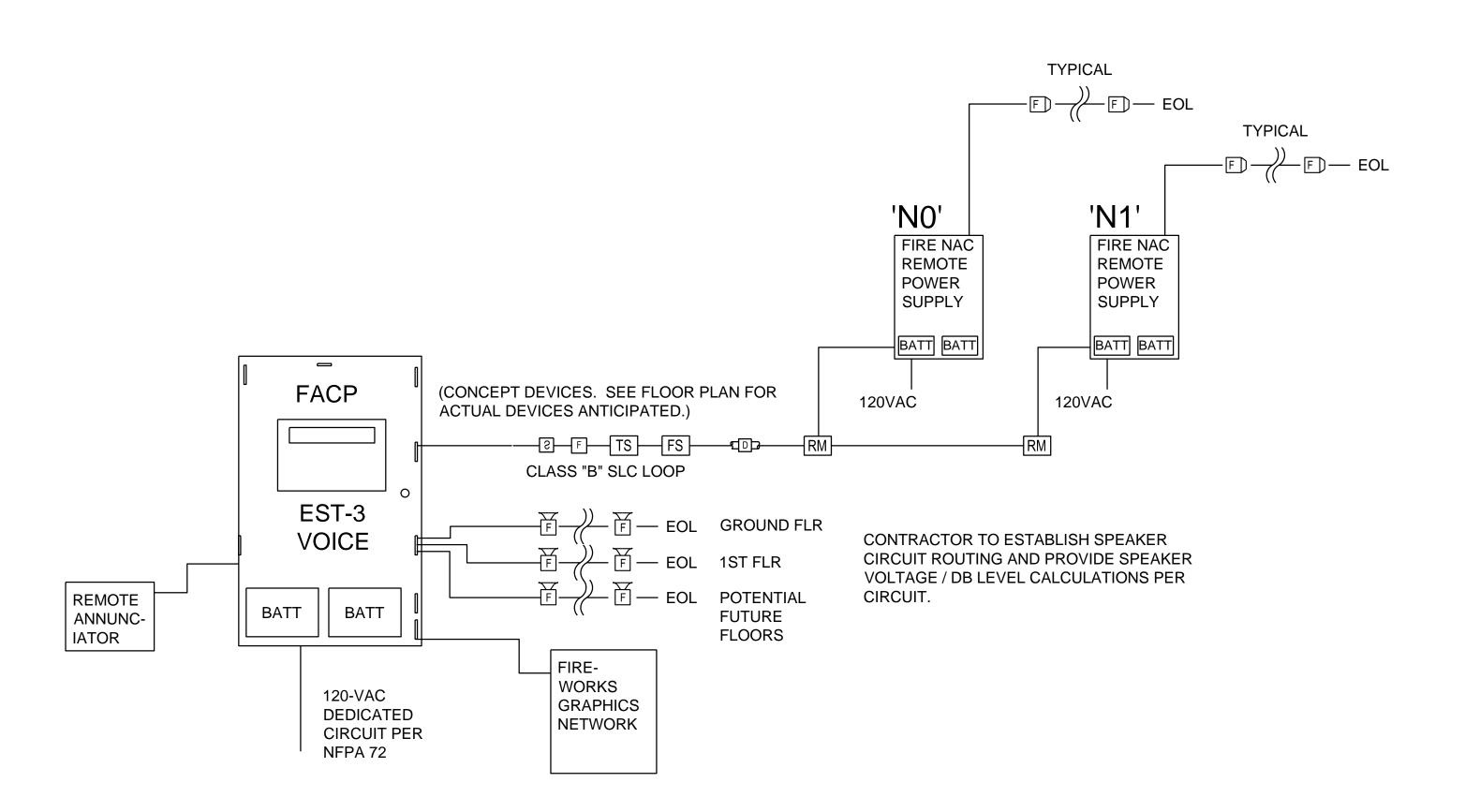








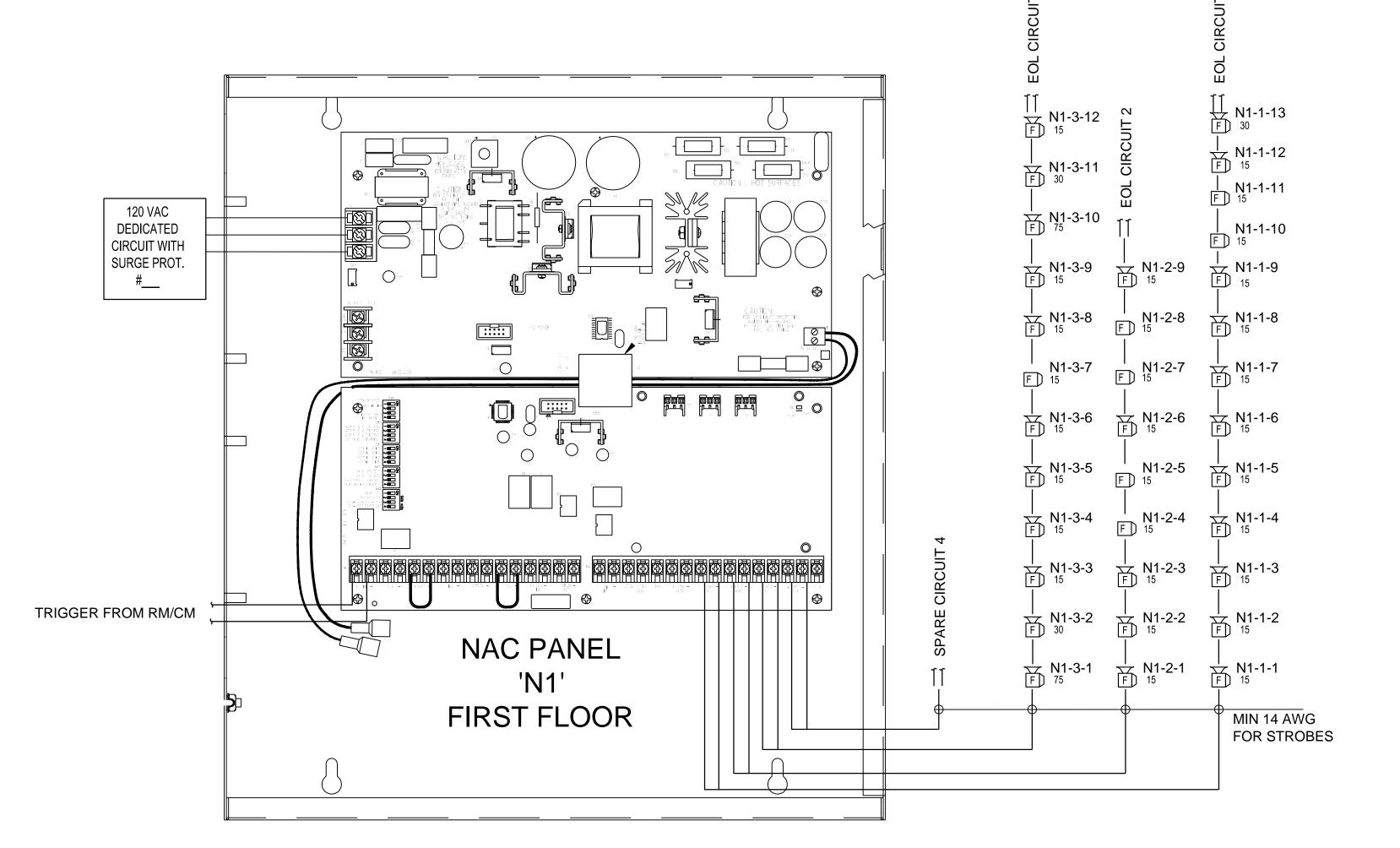




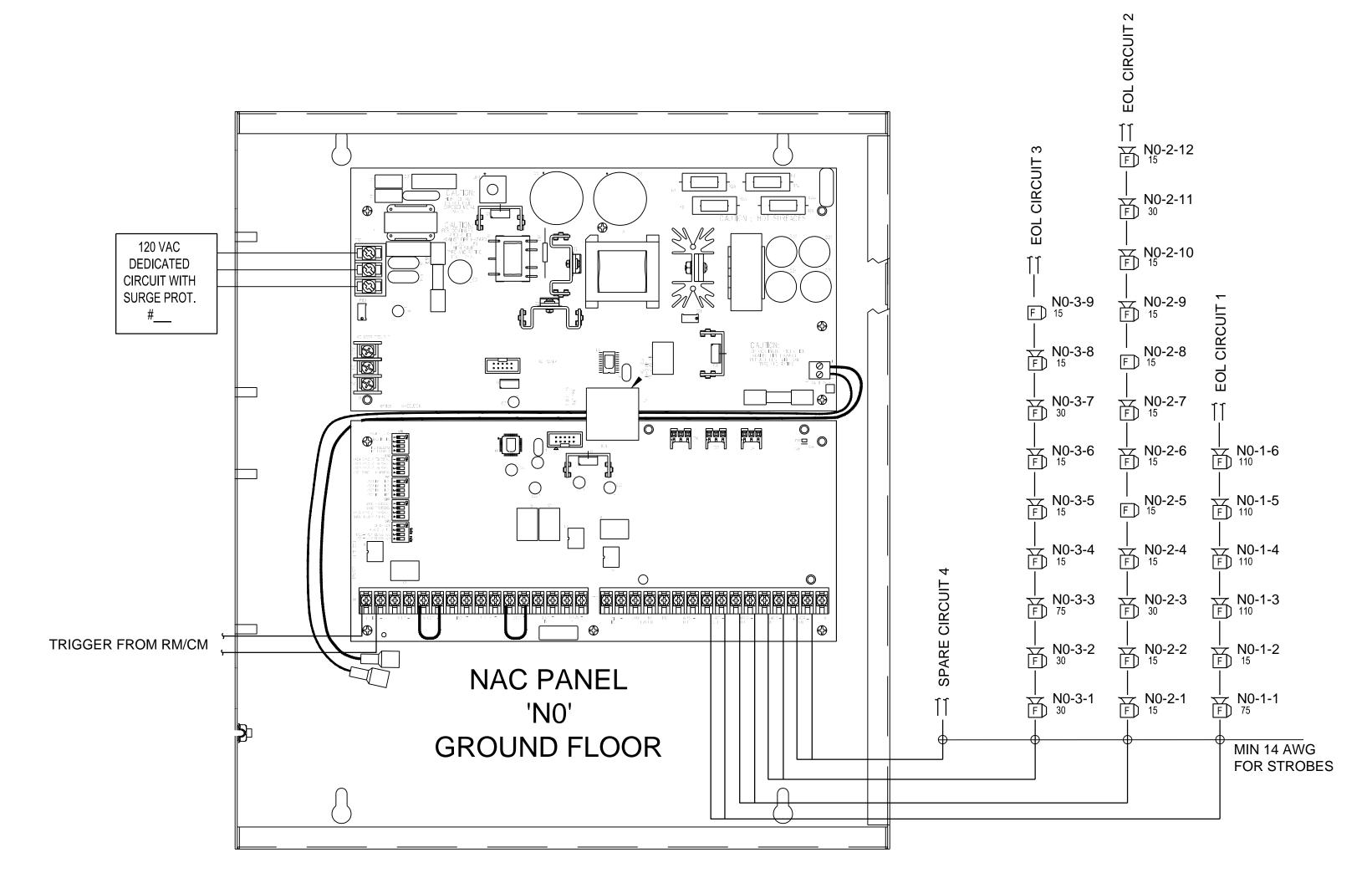
FIRE ALARM RISER CONCEPT

NOT TO SCALE

MAGNETIC DOOR HOLD-OPENS SHALL BE POWERED USING AUX CIRCUITS ON NAC PANELS. PROVIDE RELAY AT DOORS TO RELEASE UPON ALARM. CONTRACTOR TO ESTABLISH ROUTING.



3 FIRE ALARM NAC CONCEPT 'N1"
NOT TO SCALE



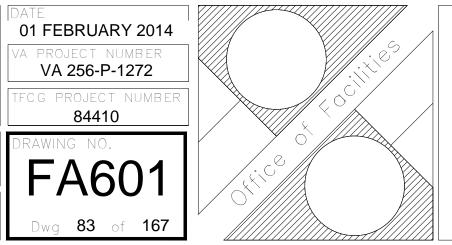
FIRE ALARM NAC CONCEPT "NO"

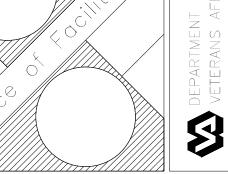


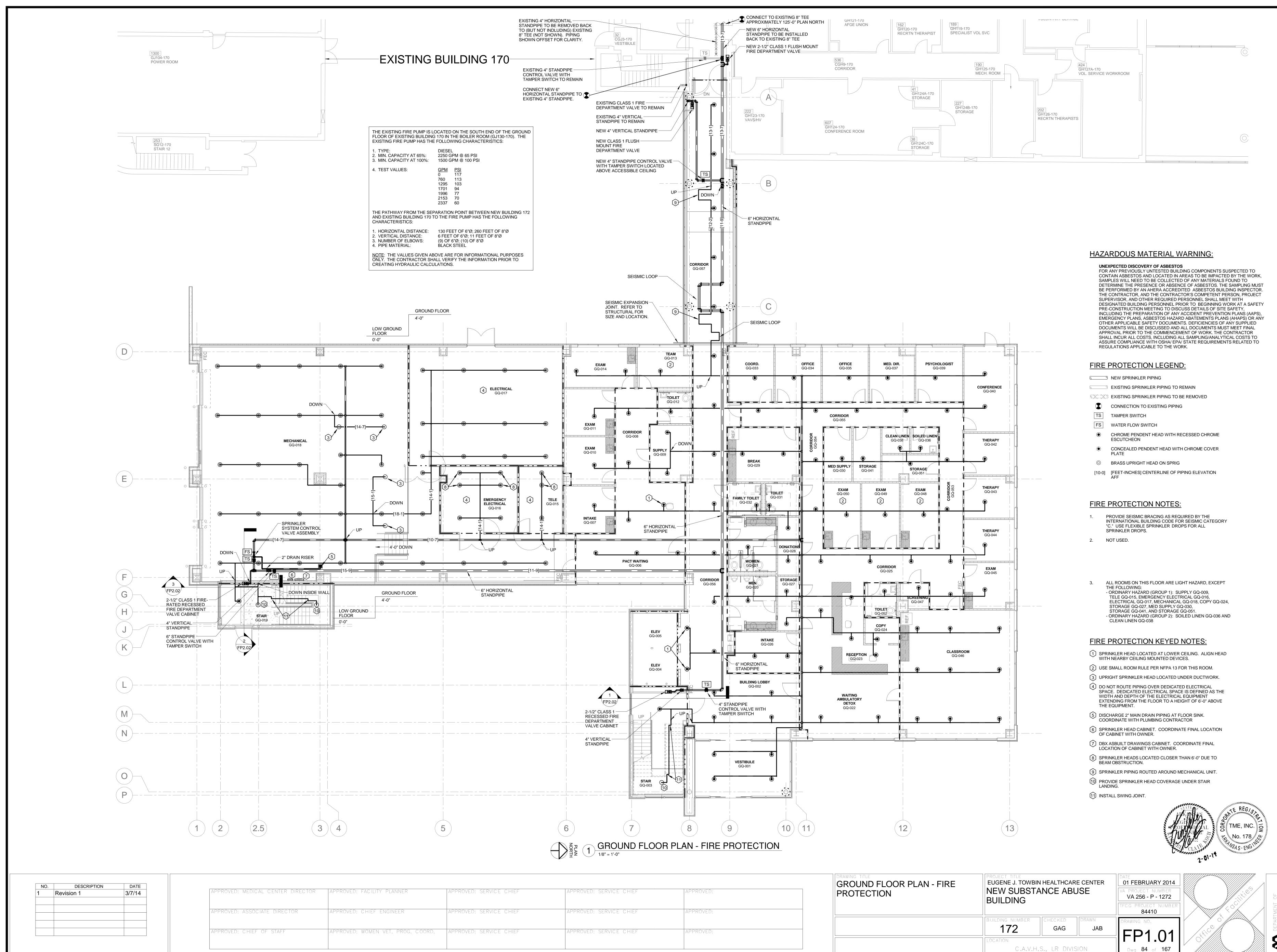
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	APPROVED: ASSOCIATE DIRECTOR	APPROVED: CHIEF ENGINEER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
	APPROVED: CHIEF OF STAFF	APPROVED: WOMEN VET. PROG. COORD.	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:

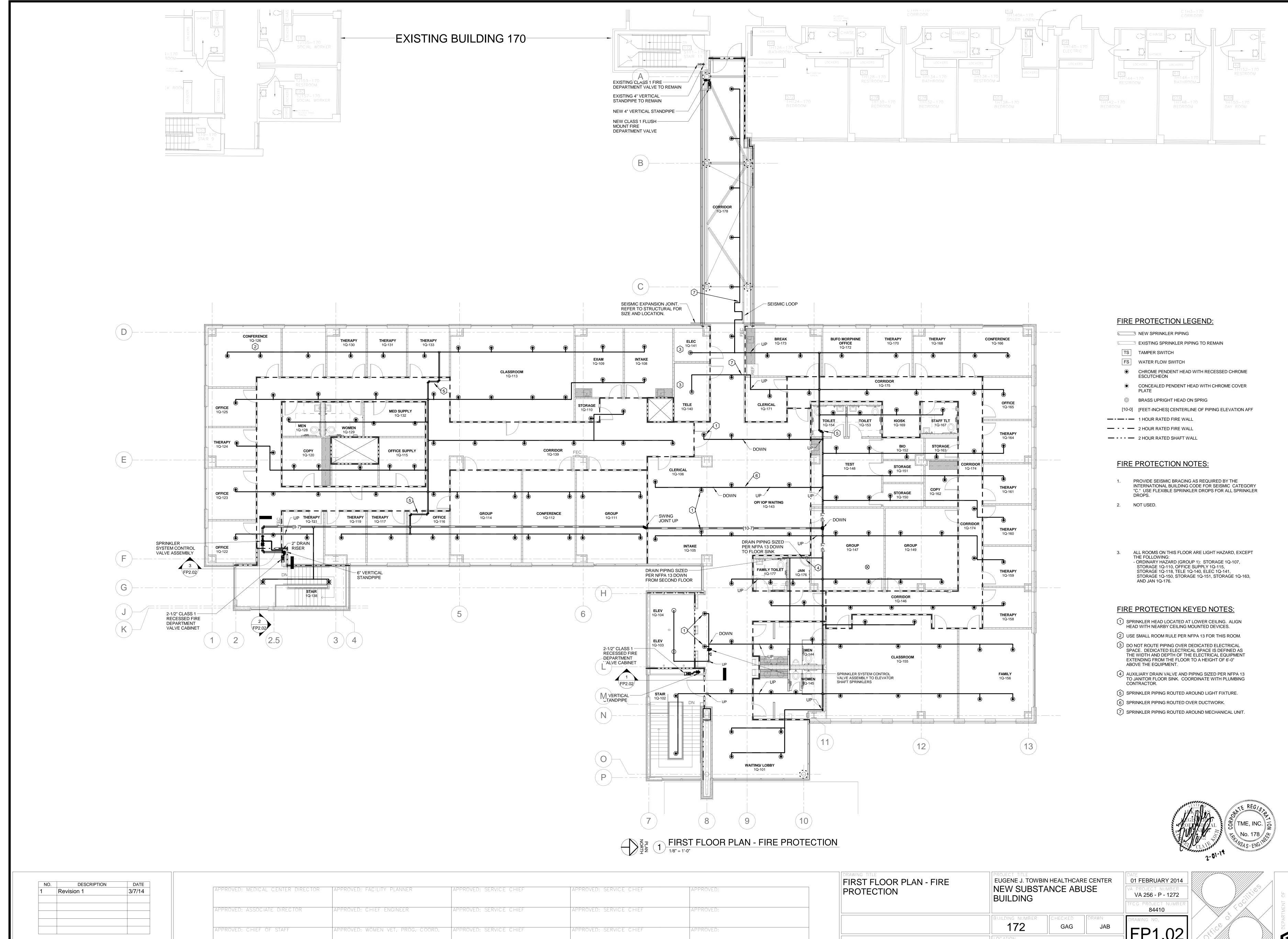
FIRE ALARM DETAILS	NEW SUBSTANCE ABUSE BUILDING			VA
	BUILDING NUMBER 172	V. POELLOT	S. LACEY	DR
	LOCATION C.A.V.H.	S., LR DIVISI	ON	_ ا

PROJECT TITLE



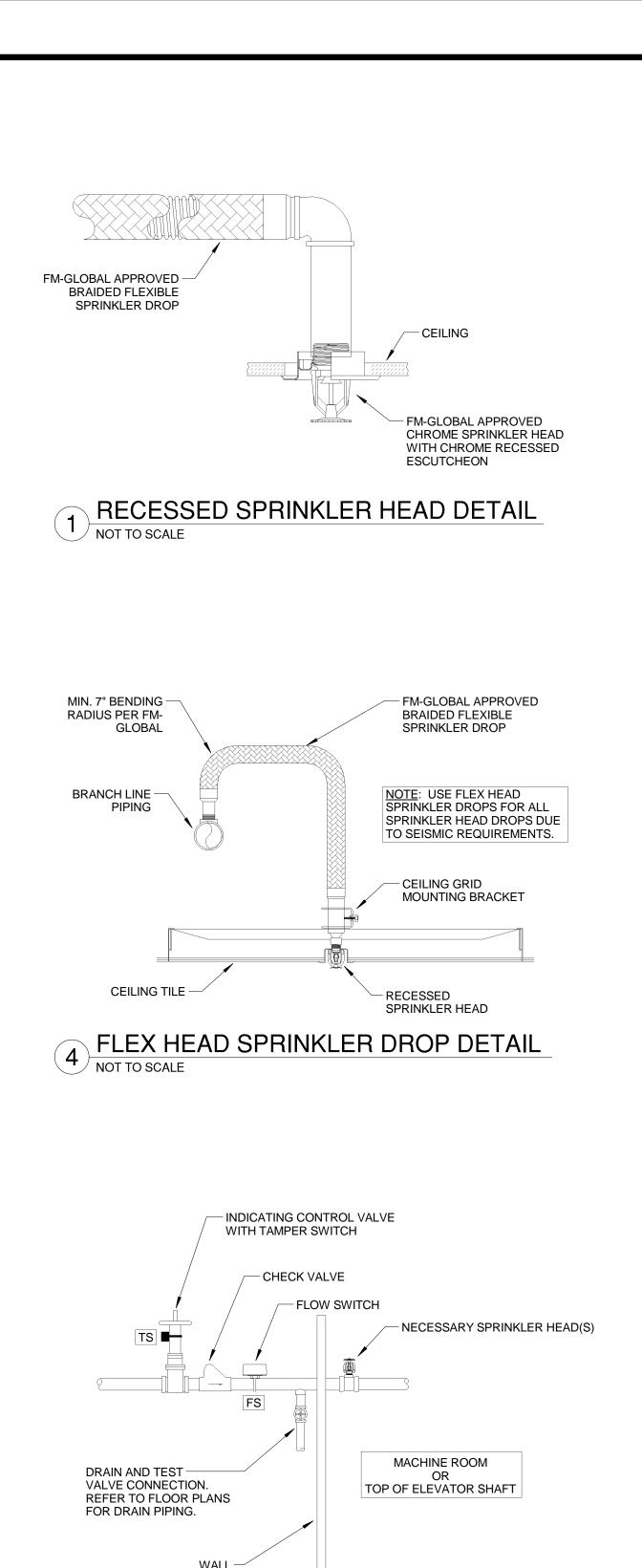




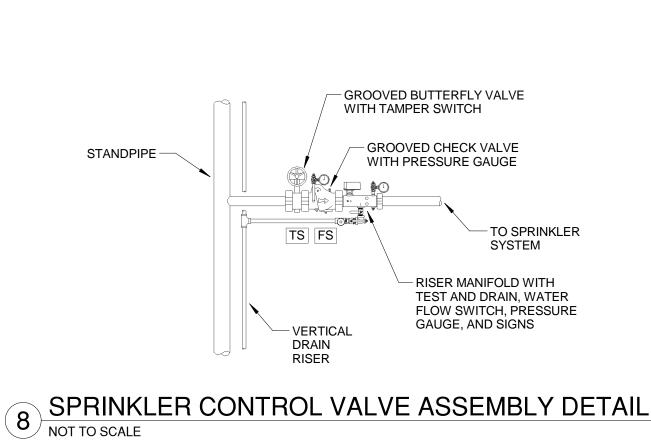


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C.A.V.H.S., LR DIVISION



ELEVATOR MACHINE ROOM SYSTEM CONNECTION DETAIL



CENTER LINE OF 2' TILE DETAIL

FM-GLOBAL

BRAIDED FLEXIBLE

SPRINKLER DROP

APPROVED

ACOUSTICAL

SPRINKLER -

TILE

HEAD

- FM-GLOBAL APPROVED

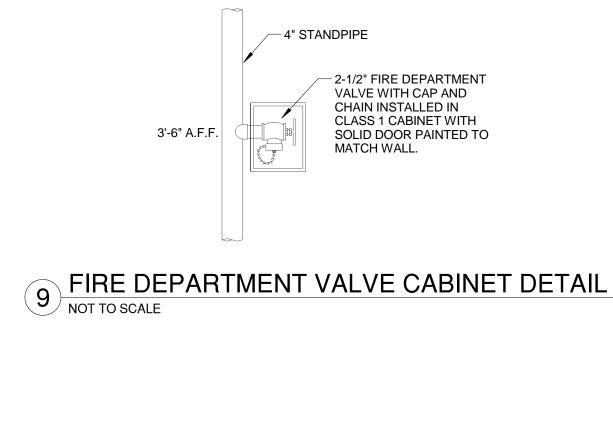
- CEILING

- CHROME COVER PLATE

CONCEALED SPRINKLER HEAD DETAIL

CONCEALED CHROME

SPRINKLER HEAD



- FM-GLOBAL

1" PIPING

THREADED TEE

THREADED TEE -

6 UPRIGH

3 UPRIGHT SPRINKLER HEAD ON 1"SPRIG DETAIL NOT TO SCALE

UPRIGHT SPRINKLER HEAD DETAIL

APPROVED BRASS UPRIGHT

SPRINKLER HEAD

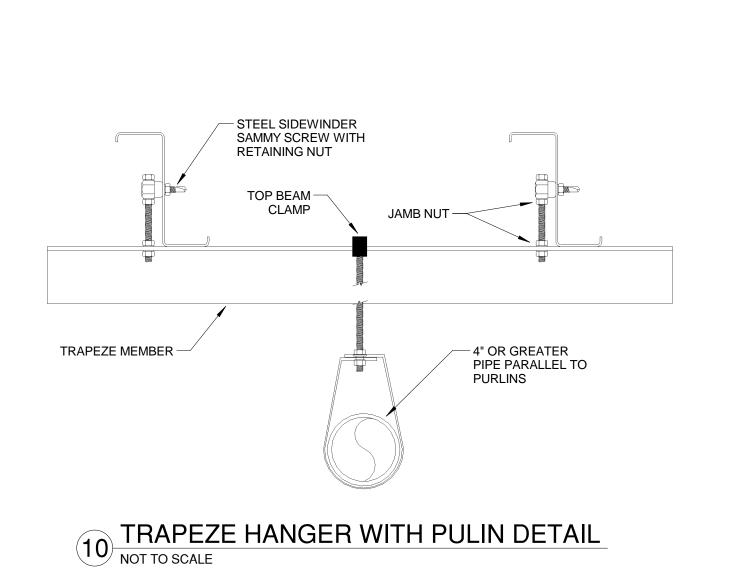
BELL REDUCER

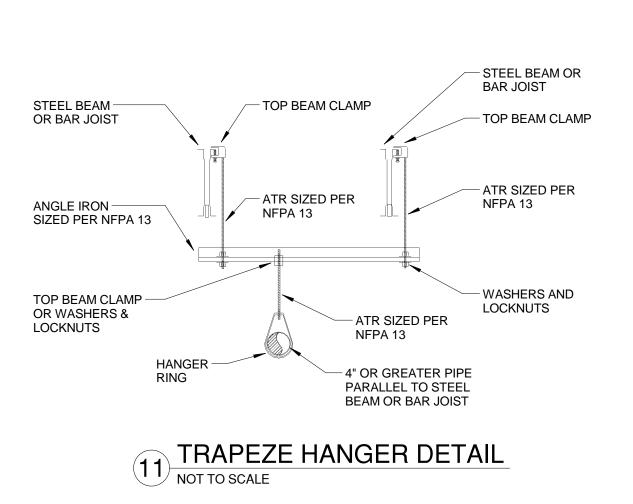
FM-GLOBAL APPROVED BRASS UPRIGHT

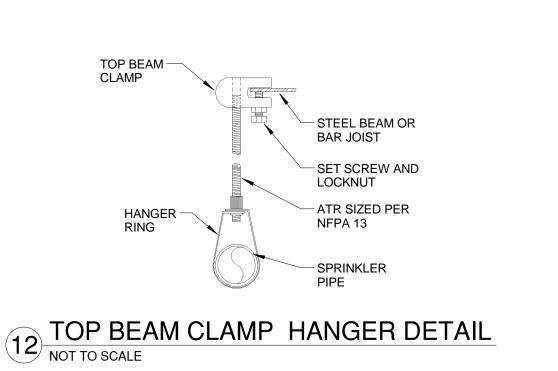
BRANCH

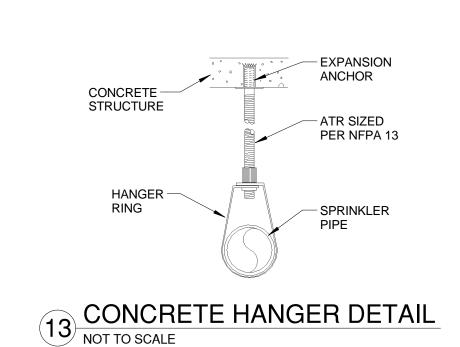
SPRINKLER HEAD

- BRANCH LINE







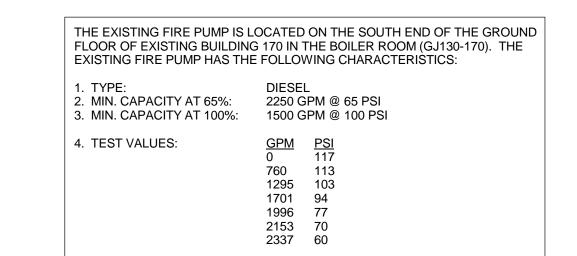


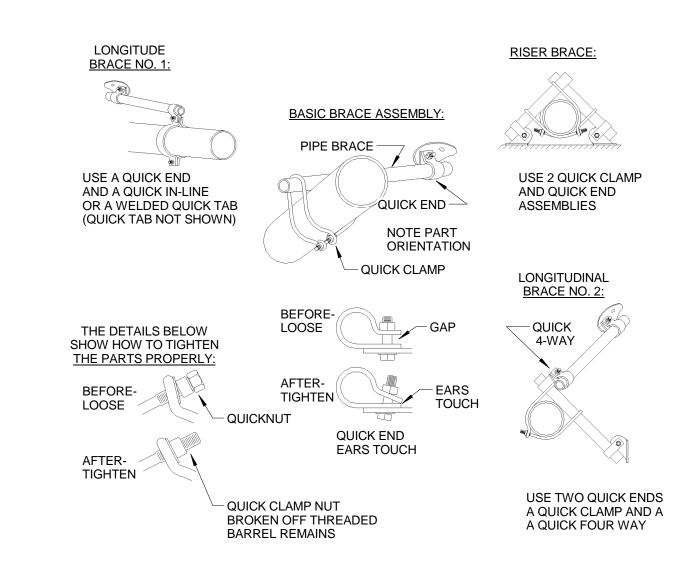
FIRE PROTECTION NOTES:

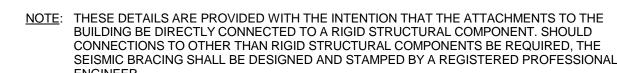
- 1. REFER TO NOTES ON DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 2. FIRE PROTECTION CONTRACTOR SHALL BASE BID ON CAREFUL COORDINATION OF THE MECHANICAL, PIPING, ELECTRICAL AND STRUCTURAL SYSTEMS IN THE BUILDING.
- 3. PROVIDE A COMPLETE HYDRAULICALLY CALCULATED, FULLY AUTOMATIC WET PIPE SPRINKLER SYSTEM THROUGHOUT THE SUBSTANCE ABUSE BUILDING (I.E. SOUTH ADDITION TO EXISTING BUILDING 170). FIRE PROTECTION CONTRACTOR SHALL INSTALL THE FIRE PROTECTION SYSTEM IN ACCORDANCE WITH ALL APPLICABLE NFPA STANDARDS, JOB SPECIFICATIONS, AND LOCAL CODE REQUIREMENTS.
- 4. FIRE PROTECTION SYSTEMS, PIPING, VALVES AND APPURTENANCES INDICATED ON THE DRAWING ARE DIAGRAMMATIC ONLY. FIRE PROTECTION CONTRACTOR SHALL VERIFY EQUIPMENT SELECTIONS, PIPE ROUTING, ETC. FOR CODE COMPLIANCE, AND ARCHITECTURAL AND STRUCTURAL CONFORMITY. FIRE PROTECTION CONTRACTOR SHOULD THOROUGHLY SURVEY THE PROPERTY AND REVIEW ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL CONSTRUCTION DOCUMENTS PRIOR TO BID. THERE IS LIMITED SPACE, IN CERTAIN AREAS, AVAILABLE FOR PIPE ROUTING.
- 5. FIRE PROTECTION SHOP DRAWINGS SHALL HAVE COMPLETE REFLECTED CEILING PLANS INDICATING LOCATION OF EACH SPRINKLER HEAD, AS WELL AS PIPING LAYOUTS. PROVIDE ADDITIONAL SPRINKLER HEADS (OVER CODE MINIMUM) IF REQUESTED BY THE ARCHITECT, TO OBTAIN SYMMETRICAL CEILING LAYOUTS.
- 6. FIRE PROTECTION SYSTEM SHALL BE COMPLETE. REUSE EXISTING EQUIPMENT AS NEEDED, SUCH AS THE FIRE PUMP, BACKFLOW PREVENTER, HORIZONTAL STANDPIPES AND FIRE DEPARTMENT CONNECTIONS. INSTALL FIRE DEPARTMENT HOSE VALVES, CONTROL VALVES, SPRINKLER PIPING AND HEADS, ELECTRONIC SUPERVISION, APPURTENANCES, ETC., AS REQUIRED BY NFPA AND LOCAL AUTHORITIES. PIPE SIZING SHALL BE ESTABLISHED BY THE FIRE PROTECTION CONTRACTOR.
- 7. FIRE PROTECTION CONTRACTOR SHALL PERFORM ALL CONNECTIONS TO THE EXISTING SPRINKLER SYSTEM DURING A SINGLE SHUTDOWN OF THE SPRINKLER SYSTEM. THE SPRINKLER SYSTEM SHUTDOWN PROCEDURE, AS DIRECTED BY THE OWNER, SHALL BE FOLLOWED. IN NO CASE SHALL THE SPRINKLER SYSTEM BE TURNED OFF DURING THE OVERNIGHT HOURS. EXCEPTION: IF THE OWNER SPECIFICALLY ALLOWS THE SHUTDOWN TO A PREDETERMINED AND ACCEPTED TIME FRAME. HOWEVER, IT SHALL IN NO WAY EXTEND INTO WEEKENDS OR HOLIDAYS.
- ALL NEW SPRINKLER MAIN PIPING SHALL BE SCHEDULE 10 WITH ROLL GROOVED AND WELDED OUTLETS. FITTINGS AND COUPLINGS SHALL BE STANDARD ROLL GROOVED.
- 9. ALL NEW SPRINKLER BRANCH LINE PIPING SHALL BE BLACK SCHEDULE 40. FITTINGS SHALL BE STANDARD "BLACK" GRADE CAST IRON, DUCTILE IRON OR MALLEABLE IRON.
- 10. ALTERNATIVE STEEL PIPE SCHEDULES ALLOWED BY NFPA 13 ARE NOT ACCEPTABLE ON THIS PROJECT.
- 11. HYDRAULIC CALCULATIONS SHALL BE BASED UPON A CURRENT FIRE PUMP PERFORMANCE TEST. CONTACT OWNER FOR MOST RECENT TEST RESULTS. IF TEST RESULTS ARE OVER ONE (1) YEAR OLD, A NEW FIRE PUMP PERFORMANCE TEST SHALL BE CONDUCTED AND RESULTS PROPERLY RECORDED AND INCLUDED IN PROJECT SUBMITTAL PACKAGE. PROVIDE MINIMUM OF 10 PSI SAFETY FACTOR FOR ALL HYDRAULIC CALCULATIONS. AVOID SYSTEM PRESSURES EXCEEDING 175 PSI. FIRE PUMP TEST RESULTS ARE SHOWN BELOW FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY THIS INFORMATION IS CORRECT AND CURRENT.
- 12. FIRE PROTECTION SYSTEM SHALL INTERFACE WITH THE BUILDING FIRE ALARM SYSTEM. REFER TO FIRE ALARM SHEETS.
- 13. ALL CONTROL VALVES SHALL HAVE ELECTRONIC SUPERVISION.
- 14. SEE SPECIFICATIONS AND PROJECT MANUAL FOR SYSTEM REQUIREMENTS. REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR BUILDING DETAILS.
- 5. SPECIAL CONSIDERATION SHALL BE GIVEN TO AREAS THROUGHOUT THE BUILDING SUCH AS DROPPED SOFFITS, RAISED CEILING AND LIGHTING SOFFITS THAT NECESSITATE ADDITIONAL SPRINKLER HEADS. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING DETAILS.
- 16. GENERAL CONTRACTOR SHALL CONDUCT A COORDINATION MEETING WITH THE SUBCONTRACTORS TO ESTABLISH CLEARANCE REQUIREMENTS NEEDED FOR MECHANICAL, PLUMBING AND ELECTRICAL WORK PRIOR TO FABRICATION OF THE SPRINKLER SYSTEM.
- 17. ALL CEILING MOUNTED SPRINKLER HEADS SHALL BE CHROME WITH CHROME RECESSED ESCUTCHEONS, UNLESS NOTED OTHERWISE OF FIRE PROTECTION PLANS. ALL NEW SPRINKLER HEADS FOR LIGHT HAZARD AND ALL STANDARD SPRAY SPRINKLER HEADS FOR ORDINARY HAZARD SHALL BE QUICK RESPONSE, AND UL/FM APPROVED FOR THE DESIGNED LOCATION AND USE.
- 18. ALL CEILING MOUNTED SPRINKLER HEADS SHALL BE LOCATED IN THE CENTER OF CEILING TILES IN ALL AREAS. EXCEPTION: CLOSETS, STORAGE ROOMS, EQUIPMENT ROOMS AND OTHER SIMILAR NON-PUBLIC AREAS ARE NOT REQUIRED TO BE CENTER OF
- TILE BUT SHALL BE NO CLOSER THAN 6" TO CEILING GRID.

 19. PROVIDE HEAD GUARDS FOR ALL SPRINKLER HEADS IN JANITOR CLOSETS, ELEVATOR MACHINE ROOMS, OR FOR ANY SPRINKLER HEAD 9 WITHIN 7'-0" OF THE FLOOR.
- 20. PROVIDE AUXILIARY DRAINS FOR ALL TRAPPED PIPING SECTIONS IN ACCORDANCE WITH NFPA 13.
- 20. PROVIDE AUXILIARY DRAINS FOR ALL TRAPPED PIPING SECTIONS IN ACCORDANCE WITH NI
 21. INSTALL PIPING HORIZONTALLY AND AT RIGHT ANGLES TO WALLS AND CEILINGS.
- 22. PAINT SPRINKLER PIPING IN MECHANICAL ROOMS OSHA RED.
- 23. PROVIDE PROTECTION FOR SPRINKLER HEADS IN AREAS WHERE THE CEILING AND SURROUNDING AREAS ARE TO BE PAINTED. FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF SPRINKLER PROTECTION AFTER THE PAINTING WORK IS COMPLETE. ANY SPRINKLER WITH PAINT OR TEXTURE OVERSPRAY SHALL BE REPLACED BY THE FIRE PROTECTION CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
- 24. PROVIDE SEISMIC BRACING AS REQUIRED BY THE INTERNATIONAL BUILDING CODE FOR SEISMIC CATEGORY "C."
- 25. ALL WORK SHALL BE IN ACCORDANCE WITH THE HOSPITAL'S INFECTIOUS CONTROL RISK GUIDELINES AND/OR INTERIM LIFE SAFETY
- MEASURES.

 26. FIRE PROTECTION PLANS SHALL BE SUBMITTED TO ALL REQUIRED LOCAL AND STATE AUTHORITIES.

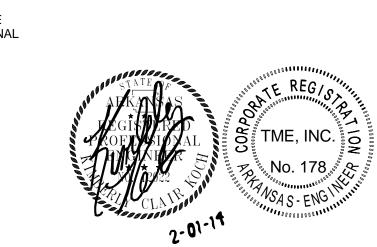






14 TYPICAL SEISMIC BRACING DETAILS
NOT TO SCALE

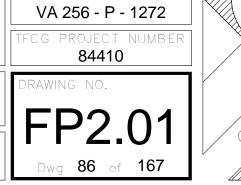
C.A.V.H.S., LR DIVISION



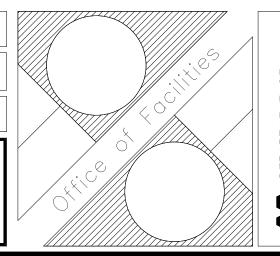
NO.	DESCRIPTION	DATE

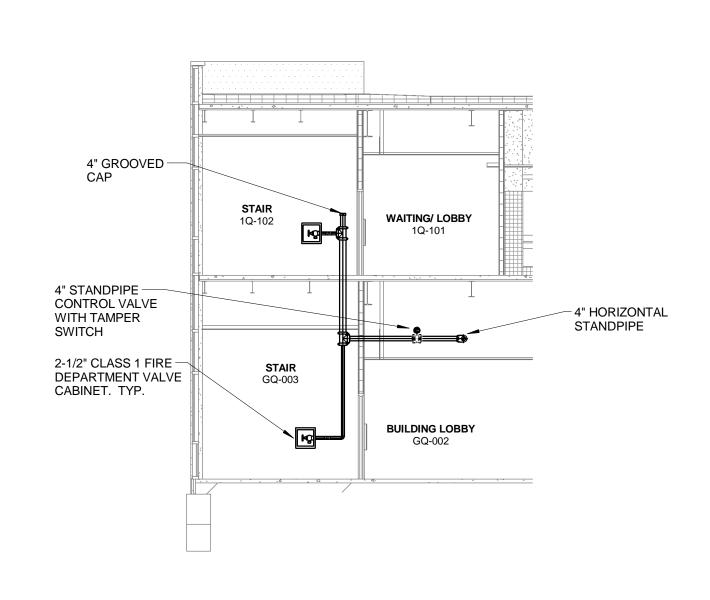
APPROVED: MEDICAL CENTER DIRECTOR	APPROVED: FACILITY PLANNER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: ASSOCIATE DIRECTOR	APPROVED: CHIEF ENGINEER	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:
APPROVED: CHIEF OF STAFF	APPROVED: WOMEN VET. PROG. COORD.	APPROVED: SERVICE CHIEF	APPROVED: SERVICE CHIEF	APPROVED:

PROJECT TITLE SENERAL NOTES AND DETAILS - FIRE PROTECTION BUILDING		_	_	
	BUILDING NUMBER 172	CHECKED GAG	JAB	

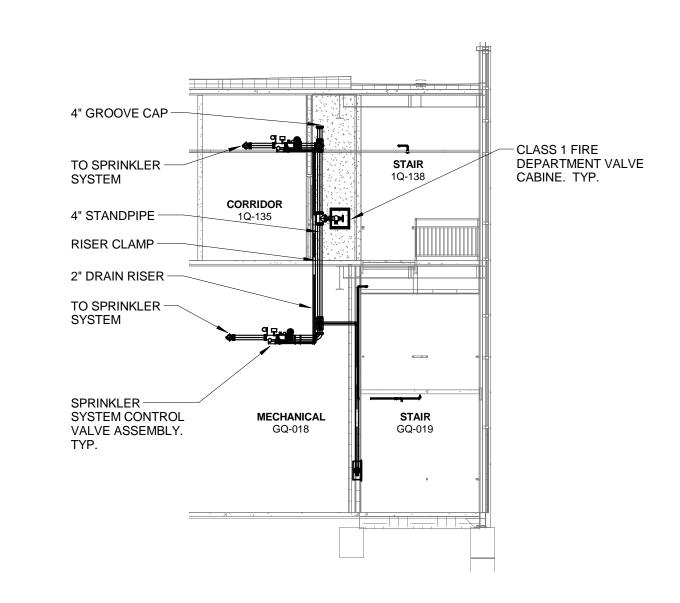


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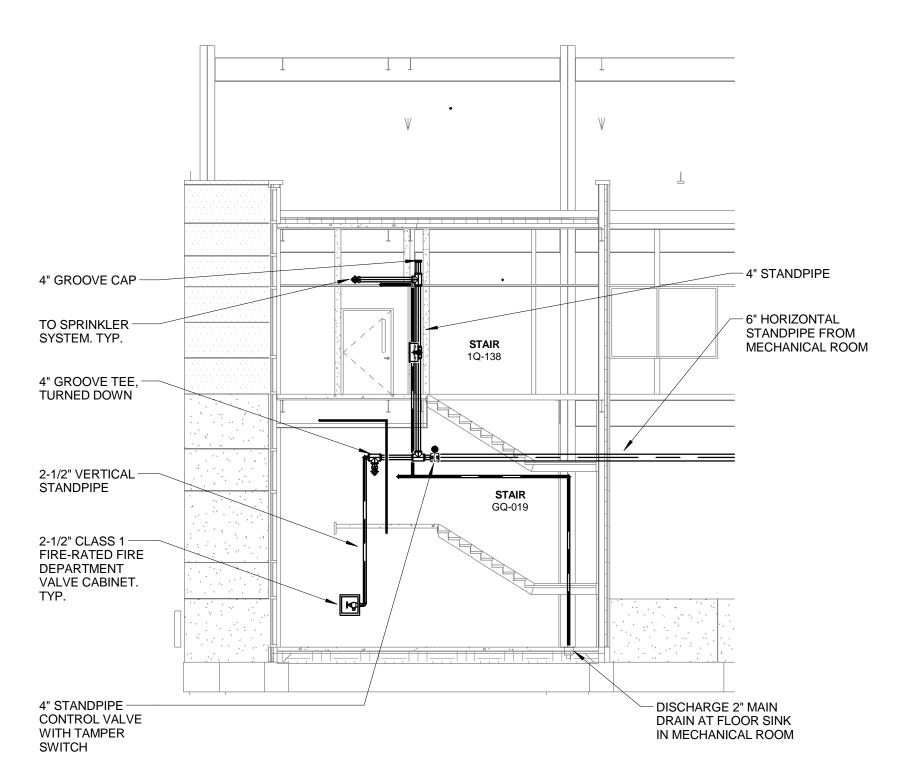








"SOUTH STAIR" SOUTH ELEVATION



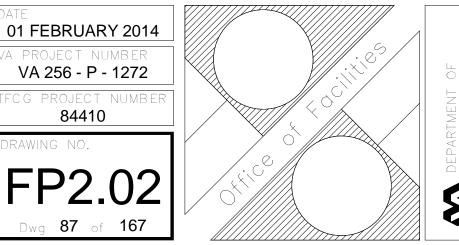


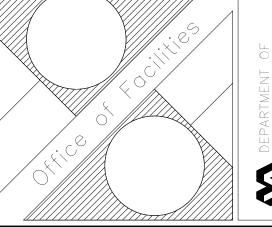


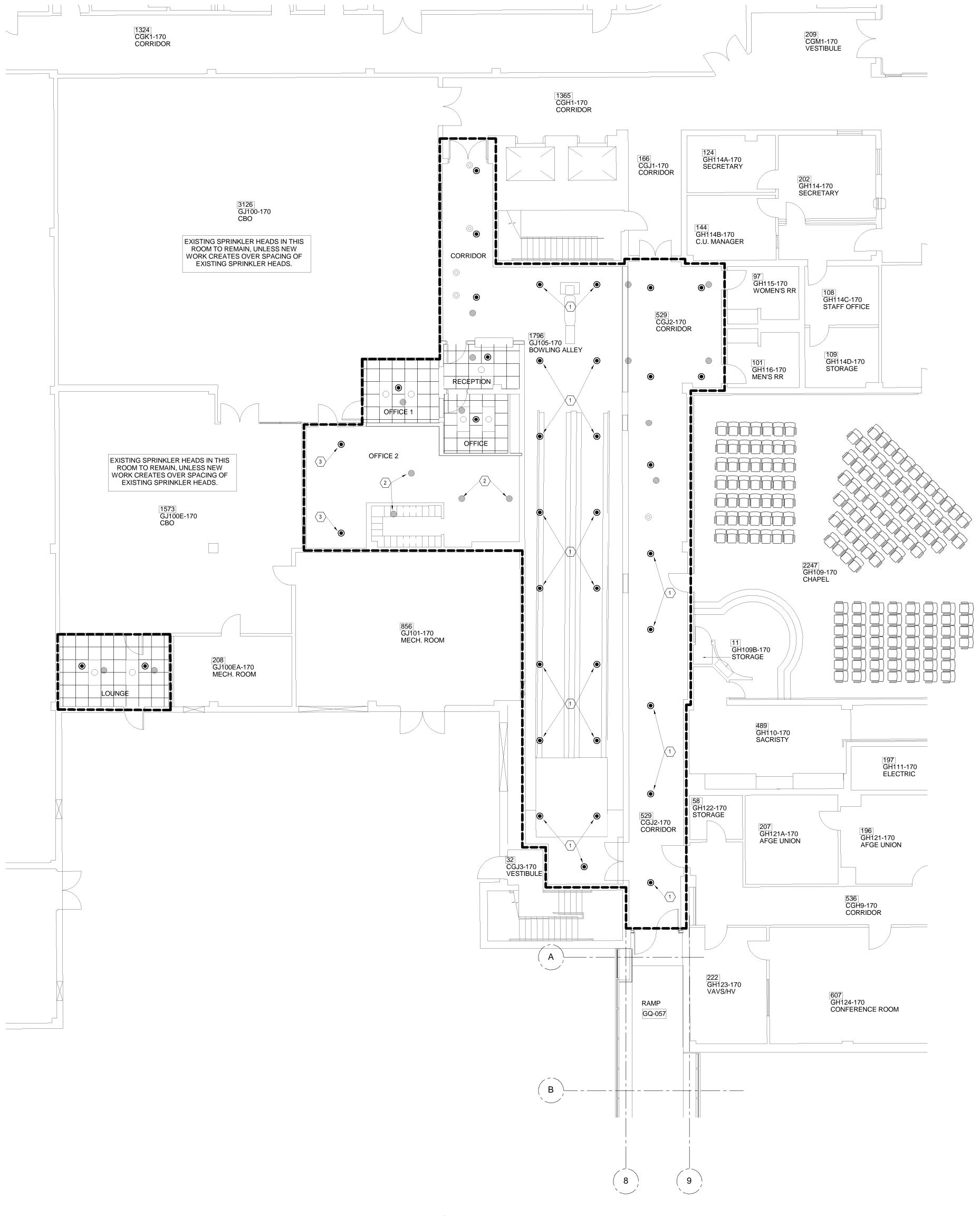
NO.	DESCRIPTION	DATE
1	Revision 1	3/7/14

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STANDPIPE DETAILS - FIRE PROTECTION	PROJECT TITLE EUGENE J. TOWBI NEW SUBST			DATE 01 FEBRUARY 2014 VA PROJECT NUMBER VA 256 - P - 1272
	DOILDING			TFCG PROJECT NUMBER 84410
	BUILDING NUMBER	CHECKED	DRAWN	DRAWING NO.
	172	GAG	JAB	
	LOCATION			FP2.02
	C.A.V.H	H.S., LR DIV	ISION	Dwg 87 of 167







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

GENERAL FIRE PROTECTION RENOVATION NOTES

- 1. FIRE PROTECTION CONTRACTOR SHALL MODIFY THE EXISTING SPRINKLER SYSTEM AS REQUIRED FOR THE RENOVATED AREAS.
- 2. FIRE PROTECTION CONTRACTOR SHALL REFER TO NFPA FOR DESIGN CRITERIA REQUIREMENTS.
- 3. FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEYING THE AREA OF WORK TO DETERMINE THE SCOPE OF DEMOLITION WORK
- 4. ALL ROOMS SHALL BE CONSIDERED LIGHT HAZARD AND SPRINKLER COVERAGE SHALL NOT EXCEED 225 SQ. FT. PER HEAD.
- 5. ALL EXISTING SPRINKLER HEADS SHALL BE REMOVED, UNLESS NOTED
- OTHERWISE. REWORK EXISTING PIPING FOR NEW SPRINKLER HEAD.
- 6. REFER TO ARCHITECTURAL PLANS FOR GENERAL RENOVATION ITEMS SUCH AS CEILINGS, WALLS, AREAS OF WORK, ETC.
- 7. REFER TO SHEET FP2.01 FOR ADDITIONAL NOTES AND DETAILS.
- 8. FIRE PROTECTION CONTRACTOR SHALL COORDINATE WITH THE OWNER AS TO CONSTRUCTION SCHEDULING, SERVICE INTERRUPTIONS, AND ACCESS TO WORK AREAS.
- 9. NO MORE THAN ONE (1) SPRINKLER HEAD SHALL BE SUPPLIED FROM AN EXISTING 1/2" SPRINKLER OUTLET. NO MORE THAN TWO (2) SPRINKLER HEADS SHALL BE SUPPLIED FROM AN EXISTING 1" SPRINKLER OUTLET.
- 10. REMOVE AND PLUG OUTLETS FOR ALL EXISTING SPRINKLER HEAD LOCATIONS NOT REUSED.
- 11. THERE IS LIMITED SPACE ABOVE CEILINGS. EXERCISE EXTREME COORDINATION WITH MECHANICAL, PLUMBING, AND ELECTRICAL PRIOR TO CREATING SHOP DRAWINGS. FIRE PROTECTION CONTRACTOR SHALL FIELD VERIFY EXISTING AND NEW MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT PRIOR TO SPRINKLER SYSTEM FABRICATION.
- 12. ALL CONNECTIONS TO EXISTING PIPING SHALL BE INSTALLED DURING A SINGLE SPRINKLER SYSTEM SHUT DOWN, AS DIRECTED BY THE OWNER.
- 13. REPAIR ALL HOLES IN WALLS AND CEILINGS AND MAINTAIN REQUIRED FIRE RATING OF WALL AND CEILINGS.
- 14. IF NEW WALL LOCATIONS CREATE A SITUATION OF OVER SPACING FOR THE ADJACENT EXISTING NON-RENOVATED AREAS, REWORK EXISTING SPRINKLER COVERAGE IN NON-RENOVATED AREAS TO BRING THESE AREAS INTO COMPLIANCE WITH NFPA SPACING RULES FOR THE GIVEN OCCUPANCY HAZARDS.
- 15. ALL RENOVATION WORK SHALL BE IN ACCORDANCE WITH THE HOSPITAL'S INFECTIOUS CONTROL GUIDELINES.
- 16. THE RE-USE OF EXISTING SPRINKLER SYSTEM COMPONENTS IS ACCEPTABLE, WITH THE EXCEPTION OF SPRINKLER HEADS.
- 17. THE SPRINKLER SYSTEM SHUT DOWN PROCEDURE, AS DIRECTED BY THE OWNER, SHALL BE FOLLOWED. IN ANY CASE, THE RESPONDING FIRE DEPARTMENT SHALL BE NOTIFIED PRIOR TO SHUT DOWN. IN NO CASE SHALL THE SPRINKLER SYSTEM BE TURNED OFF DURING THE OVERNIGHT HOURS. EXCEPTION: IF THE OWNER SPECIFICALLY ALLOWS THE SHUT DOWN TO A PREDETERMINED AND ACCEPTED TIME FRAME. HOWEVER, IT SHALL IN NO WAY EXTEND INTO WEEKENDS OR HOLIDAYS.
- 18. REMOVE ALL EXISTING FIRE SPRINKLER PIPING, FITTINGS AND HANGERS THAT ARE NO LONGER USEFUL TO THE FIRE SPRINKLER SYSTEM AT TIME OF COMPLETION. THE OWNER RETAINS THE FIRST RIGHTS OF REFUSAL FOR ALL SUCH EQUIPMENT.
- 19. AFTER THE RENOVATIONS ARE COMPLETE, THE FIRE PROTECTION CONTRACTOR IS REQUIRED TO PERFORM A WORKING PRESSURE TEST. THE TEST SHALL PROVE THAT THERE ARE NO LEAKS IN EXCESS IN TWO HOURS WHEN THE SYSTEM IS PUMPED TO 50 PSI GREATER THAN SYSTEM WORKING PSI. THE CONTRACTOR SHALL COORDINATE THESE ACTIVITES WITH THE OWNER. THE CONTRACTOR SHALL MAKE EVERY ATTEMPT TO PERFORM HIS WORK AS EXPEDITIOUSLY AS POSSIBLE IN ORDER TO MINIMIZE THE LENGTH OF TIME THE SYSTEM IS SHUT DOWN.

KEYED FIRE PROTECTION RENOVATION NOTES

- REPLACE EXISTING STANDARD RESPONSE SPRINKLER HEAD WITH NEW QUICK RESPONSE SPRINKLER HEAD.
- $\langle 2 \rangle$ EXISTING QUICK RESPONSE SPRINKLER HEAD SHALL REMAIN.
- (3) MATCH EXISTING SPRINKLER HEADS WITHIN THIS ROOM IN EVERY CHARACTERISTIC (STYLE, COLOR, ESCUTCHEON, ETC.)

FIRE PROTECTION LEGEND

- EXISTING CHROME PENDENT SPRINKLER HEAD WITH CHROME ESCUTCHEON TO BE REMOVED
- © EXISTING BRASS UPRIGHT SPRINKER HEAD TO BE REMOVED
- NEW QUICK RESPONSE CHROME PENDENT SPRINKLER HEAD WITH CHROME RECESSED ESCUTCHEON
- INDICATES FIRE PROTECTION SCOPE OF WORK



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PLAN - FIRE PROTECTION	NEW SUBS BUILDING

OWBIN HEALTHCARE CENTER STANCE ABUSE BUILDING NUMBER

C.A.V.H.S., LR DIVISION

VA 256 - P - 1272 84410 FP3.01

