

SYMBOL LIST	
SYMBOL	DESCRIPTION
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR
	FIRE ALARM COMMUNICATOR (CELLULAR AND/OR INTERNET PROTOCOL)
	DIGITAL ALARM COMMUNICATOR TRANSMITTER
	BATTERY CABINET
	AUXILIARY POWER SUPPLY PANEL FOR AUDIBLE SIGNAL
	NOTIFICATION APPLIANCE CIRCUIT POWER BOOSTER EXTENDER PANEL FOR VISUAL SIGNAL
	VOICE EVACUATION CONTROL UNIT
	AMPLIFIER RACK
	REMOTE VOICE EVACUATION MICROPHONE
	FIRE ALARM MANUAL PULL STATION
	FIRE ALARM PHOTOELECTRIC SMOKE DETECTOR
	FIRE ALARM HEAT DETECTOR – COMBINATION RATE OF RISE AND FIXED TEMPERATURE DEVICE
	MULTI-CRITERIA FIRE AND CARBON MONOXIDE DETECTOR INSTALLED ON SOUNDER BASE FOR LOCAL NOTIFICATION
	MULTI-CRITERIA FIRE/SMOKE AND CARBON MONOXIDE DETECTOR INSTALLED ON SOUNDER BASE WITH 520 Hz LOW FREQUENCY SOUNDER CAPABILITY FOR LOCAL ALARM
	CARBON MONOXIDE DETECTOR–CEILING MOUNTED FOR LOCAL SOUND ALARM ONLY. PROVIDE WITH ADDRESSABLE INPUT MODULE
	FIRE ALARM SMOKE DETECTOR WITH SENSOR FOR DUCT. R = RETURN AIR; S= SUPPLY AIR
	FIRE ALARM REMOTE INDICATOR LAMP – CEILING MOUNT
	FIRE ALARM REMOTE INDICATOR LAMP – WALL MOUNT
	FIRE ALARM HORN – WALL MOUNT.
	FIRE ALARM HORN/VISIBLE (STROBE) – WALL MOUNT. NUMBER DENOTES MINIMUM CANDELA OUTPUT
	FIRE ALARM HORN/VISIBLE (STROBE) – CEILING MOUNT. NUMBER DENOTES MINIMUM CANDELA OUTPUT
	FIRE ALARM VISIBLE (STROBE) – WALL MOUNT. NUMBER DENOTES MINIMUM CANDELA OUTPUT
	FIRE ALARM VISIBLE (STROBE) – CEILING MOUNT. NUMBER DENOTES MINIMUM CANDELA OUTPUT
	ADDRESSABLE SINGLE OR DUAL INPUT MONITOR MODULE
	ADDRESSABLE OUTPUT CONTROL MODULE
	ADDRESSABLE CONTROL RELAY
	AUXILIARY RELAY
	END OF LINE RESISTOR
	FLOW DETECTOR/SWITCH
	VALVE SUPERVISORY SWITCH
	PRESSURE DETECTOR/SWITCH
	DENOTES ELEVATOR RECALL
	DENOTES MOISTURE PROOF
	DENOTES WEATHER PROOF
	DENOTES PRE-ACTION
	DENOTES UNDER FLOOR
	ACCESS FEATURE – FIRE DEPARTMENT KEY BOX
	KITCHEN HOOD FIRE SUPPRESSION SYSTEM
	BELL (SINGLE STROKE) – 12 or 24 VOLTS OPERATIONAL (FURNISHED BY OTHERS, INSTALLED AND WIRED BY THIS CONTRACTOR)

FLOOD RESISTANT CONSTRUCTION INSTALLATION OF A MANUAL AND AUTOMATIC SMOKE DETECTION FIRE ALARM SYSTEM AND MONITORING OF SPRINKLER SYSTEM.



DESIGNED FIRE ALARM SYSTEM BASED UPON
ASSEMBLY OCCUPANCY CLASSIFICATION WITH LESS
THAN 1000 PEOPLE

FIRE ALARM GENERAL DESCRIPTION OF WORK SCOPE	
INSTALLATION OF A MANUAL AND AUTOMATIC SMOKE DETECTION FIRE ALARM SYSTEM AND MONITORING OF SPRINKLER SYSTEM.	

FA-0.1
FA-0.2
FA-1.1
FA-1.2
FA-1.3
FA-5.1
FA-5.2
FA-6.1
FA-7.1
FA-7.2

FIRE ALARM SYMBOLS, ABBREVIATIONS AND GENERAL NOTES

FIRE ALARM GENERAL NOTES

FIRE ALARM FIRST FLOOR PLAN

FIRE ALARM MEZZANINE PLAN

FIRE ALARM SECOND FLOOR PLAN

FIRE ALARM DETAILS

FIRE ALARM DETAILS

FIRE ALARM RISER DIAGRAM

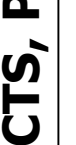
FIRE ALARM SPECIFICATIONS

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DATE	ISSUED
06-22-2026	ISSUED FOR 100%DD/90%CD REVIEW
07-20-2026	ISSUED FOR 90%CD REVIEW
09-17-2026	ISSUED FOR GENERAL CONSTRUCTION BID AS SINGLE PRIME CONTRACT INCLUDING ALL TRADES



SENDELEWSKI ARCHITECTS, P.C.

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PROPOSED NEW FACILITY
ELLENVILLE FIRE DISTRICT
203 S. MAIN ST. NYS ROUTE 209
ELLENVILLE, NY 12426

PROJECT No. 2501
EMTEC: 7611

DRAWING:



EMTEC PROJECT NO. 7611 DRAWN BY: JE CHECKED BY: ARS

FIRE ALARM GENERAL NOTES:

1. ALL WORK SHALL BE IN ACCORDANCE WITH LATEST VERSION OF BUILDING CODE OF NEW YORK STATE, LOCAL AUTHORITY HAVING JURISDICTION ORDINANCE, NFPA 72 AND NATIONAL ELECTRIC CODE REQUIREMENTS.
2. ALL NEW FIRE ALARM EQUIPMENT, DEVICES AND APPLIANCES SHALL BE UL LISTED AND AS SPECIFIED ON SYMBOL LIST ON THIS DRAWINGS SET.
3. ALL FIRE ALARM CIRCUITS SHALL BE SIZED TO A MAXIMUM OF 80% OF CAPACITY.
4. ALL FIRE ALARM CIRCUITS SHALL BE WIRED USING NFPA CLASS A; STYLE 6, WITH THE EXCEPTION OF THE NETWORK CIRCUIT WHICH SHALL BE NFPA CLASS X. ALL NOTIFICATION APPLIANCES SHALL BE WIRED USING NFPA CLASS B STYLE Z CIRCUIT TYPE. T-TAPPING IS NOT ALLOWED FOR ALL CIRCUIT CLASSES.
5. ALL LOW VOLTAGE FIRE ALARM CONDUCTORS SHALL BE PROTECTED BY EITHER BUILDING CONSTRUCTION OR CONDUIT TO 10 FEET ABOVE THE FINISHED FLOOR. FIRE ALARM CONDUCTORS LOCATED IN LOADING DOCKS, GARAGES, MECHANICAL, ELECTRICAL ROOMS OR IN OTHER LOCATION WHEN SUBJECT TO MECHANICAL DAMAGE SHALL BE ENTIRELY IN RIGID CONDUIT OR EMT. IN ALL OTHER AREAS, WIRE MAY BE RUN WITHOUT CONDUIT ABOVE 10 FT AND SHALL BE FASTENED TO BUILDING WALL OR CEILING EVERY 3 FEET OR LESS, UNLESS OTHERWISE NOTED.
6. CONDUITS MAY NOT ENTER THE TOP OF ANY FIRE ALARM EQUIPMENT CABINET.
7. ALL FIRE ALARM EQUIPMENT SHALL BE INSTALLED WITH AESTHETICS IN MIND. CABINETS SHALL BE SEMI FLUSH MOUNTED AND CABLE TRAYS SHALL BE HIDDEN.
8. ALL FIRE ALARM CABINETS AND SYSTEM JUNCTION BOXES PLATES SHALL BE PAINTED RED. ALL FIRE ALARM CABINETS SHALL BE CLEARLY LABELED WITH ENGRAVED LABEL.
9. EACH FIRE ALARM DEVICE AND/OR APPLIANCES SHALL BE LABELED WITH ITS DIGITAL ADDRESS USING 'P-TOUCH' WHITE TAPE AND BLACK LETTERS.
10. ALL REMOTE LAMPS SHALL BE LABELED USING 'P-TOUCH' LABEL CONTAINING THE ASSOCIATED FA DETECTOR INFORMATION (DIGITAL ADDRESS) AND ITS LOCATION.
11. ALL FIRE ALARM WIRES SHALL BE CLEARLY LABELED IN JUNCTION BOXES AND CABINETS. ALL TERMINALS SHALL BE NUMBERED AND LABELED. ALL CONNECTIONS SHALL BE EITHER SOLDERED, APPROVED TERMINAL STRIPS OR SCOTCH LOCKS.
12. WHEN PENETRATING THRU 1-HR OR 2-HR FIRE RATED WALL, CEILING OR FLOOR, THE FIRE ALARM CIRCUIT SHALL BE SUBJECT TO FIRE STOPPING REQUIREMENTS AND SHALL BE ENCLOSED IN CONDUIT. UTILIZE APPROVED UL FIRE STOPPING METHOD. REFER TO FA-501.00 FOR REFERENCES.
13. FIRE ALARM CABLES SHALL NOT BE MIXED WITH NON FIRE ALARM CABLING. LOW VOLTAGE FIRE ALARM CABLING SHALL NOT BE MIXED OR WIRED NEAR ANY AC CIRCUIT.
14. JUNCTION OR BACK BOXES FOR ALL FA EQUIPMENT, DEVICES AND APPLIANCES SHALL BE RECESSED AND CABLES CONCEALED IN SPACES WITH GYPSUM WALLS, AND GYPSUM OR HUNG CEILING.
15. ALL LOW VOLTAGE WIRING SHALL BE FPLP 150 DEGREE C CERTIFIED WIRE. ALL NOTIFICATION CIRCUITS SHALL BE A MINIMUM OF 14 AWG AND ALL INITIATION FIRE ALARM CIRCUITS SHALL BE 16 AWG MINIMUM.
16. POLARITY SHALL BE OBSERVED ON ALL CIRCUITS. T-TAPPING SHALL NOT BE ALLOWED ON ANY NOTIFICATION CIRCUITS (HORN, STROBE OR SPEAKER).
17. ALL WIRING SHALL BE INSPECTED TO ASSURE THERE ARE NO OPENS, SHORTS OR EARTH GROUNDS. PERFORM PRE-TESTING AND TESTING PER NFPA 72
18. SHIELDED CONDUCTORS OR RUNNING IN SEPARATE RACEWAY SHALL BE AS INSTRUCTED BY THE FIRE ALARM MANUFACTURER'S DOCUMENTATION. ALL NON-POWER LIMITED WIRING, INCLUDING CIRCUITS FOR CENTRALIZED AMPLIFIERS SHALL BE RUN IN A SEPARATE RACEWAY.
19. FIRE ALARM EQUIPMENT SHALL BE POWERED FROM DEDICATED CIRCUIT BREAKER IN DESIGNATED ELECTRICAL PANEL. THE CIRCUIT BREAKER SHALL BE IDENTIFIED AS "FIRE ALARM CONTROL PANEL" UTILIZING RED NAMEPLATE WITH ENGRAVED WHITE LETTERS AND PROVIDED WITH AN APPROVED BREAKER LOCKING DEVICE. ALL WIRING SHALL BE #12 MINIMUM THHN OR EQUIVALENT RUN IN ¾" INCH EMT/RGS AND IN ACCORDANCE WITH NEC REQUIREMENTS. EQUIPMENT GROUNDING WIRE SHALL BE #12 MINIMUM. PROVIDE LABEL ON BACK OF FACP DOOR INDICATING POWER FEED SOURCE, LOCATION AND CIRCUIT BREAKER NUMBER.
20. FIRE ALARM CONTROL PANEL AND OTHER FIRE ALARM SUB-SYSTEM CONTROL EQUIPMENT SHALL BE PROVIDED WITH SECONDARY POWER SOURCE IN FORM OF DEDICATED STORAGE BATTERIES. THE SECONDARY POWER SOURCE SHALL MEET REQUIREMENTS OF APPLICABLE VERSION OF NFPA 72. AT MINIMUM IT SHALL HAVE SUFFICIENT CAPACITY TO OPERATE FIRE ALARM SYSTEM UNDER QUIESCENT LOAD FOR A MINIMUM OF 24 HOURS AND THEN OPERATE THE SYSTEM DURING EMERGENCY CONDITION FOR PERIOD OF 15 MINUTES AT MAXIMUM CONNECTED LOAD. PROVIDE ALL NECESSARY BATTERY CALCULATION FOR AHJ AND ENGINEER OF RECORD REVIEW AND APPROVAL.
21. REQUIRED 24 VDC POWER TO ALL ADDRESSABLE CONTROL RELAYS SHALL BE PROVIDED FROM FIRE ALARM CONTROL PANEL.
22. PROVIDE INDEPENDENT AND DEDICATED 120VAC POWER TO ALL MOTORIZED FIRE SMOKE AND/OR SMOKE DAMPERS. POWER CIRCUIT SHALL BE OBTAINED FROM LOCAL ELECTRICAL PANEL(S) WITH SPARE OR SPACE CAPACITY. HE FSD'S AND/OR SD'S ARE FURNISHED BY OTHER TRADE AND WIRED BY THIS CONTRACTOR. IF THE MOTORIZED DEVICES PROVIDED OPERATE ON VOLTAGE OTHER THAN 120VAC, THIS CONTRACTOR SHALL PROVIDE DEDICATED 120VAC ALONG WITH APPROPRIATE VOLTAGE POWER SUPPLY (INCLUDING A STEP DOWN TRANSFORMER(S)) ACCORDINGLY.
23. FACP SHALL BE EQUIPPED WITH A DIGITAL COMMUNICATOR FOR AUTOMATIC COMMUNICATION WITH AN APPROVED CENTRAL STATION DESIGNATED BY OWNER. THE DIALER SHALL BE CAPABLE OF COMMUNICATE FOLLOWING EVENTS: FIRE ALARM, CARBON MONOXIDE ALARM, MANUAL STATION ACTIVATION, SUPERVISORY, AND TROUBLE. REFER TO FIRE ALARM I/O MATRIX FOR REQUIREMENTS AND DETAILS.
24. ALL CEILING MOUNT DEVICES MUST BE SECURELY FASTENED TO BUILDING STRUCTURE OR CONSTRUCTION FIXED ELEMENTS.
25. DUCT MOUNTED SMOKE DETECTORS SHALL BE MOUNTED ON DUCTWORK IN STRICT ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS. AIR SAMPLING TUBE MUST PENETRATE ENTIRE WIDTH OR DEPTH OF THE AIR DUCT. ALL DUCT DETECTORS SHALL BE PROVIDED WITH A REMOTE LED WHEN CONCEALED OR NOT VISIBLE WHILE STANDING ON FLOOR BELOW.
26. PROVIDE ADDRESSABLE CONTROL RELAYS, AND IF NECESSARY AUXILIARY RELAYS FOR ALL HVAC AND VENTILATION EQUIPMENT DESIGNATED TO BE SHUTDOWN. FANS RESET TO BE CONTROLLED BY FIRE ALARM CONTROL PANEL. RESTART OF THE FANS SHALL OCCUR AUTOMATICALLY, UPON MANUAL RESET OF THE FIRE ALARM CONTROL PANEL.
27. NOTIFICATION WALL MOUNTED APPLIANCE SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80 INCHES AND NOT GREATER THAN 96 INCHES ABOVE THE FINISH FLOOR. WHERE LOW CEILING HEIGHT DO NOT PERMITS MOUNTING AT MINIMUM OF 80 INCHES, THE VISIBLE APPLIANCE SHALL BE MOUNTED WITHIN 6 INCHES OF THE CEILING.
28. ALL STROBE LIGHTS SHALL BE ADA AND UL-1971 APPROVED/LISTED. THE MINIMUM CANDELA AS INDICATED ON FLOOR PLAN.
29. ALL STROBE DEVICES AND STROBE ELEMENT OF AUDIBLE APPLIANCE SHALL REMAIN ACTIVE, AFTER SILENCE FUNCTION OCCURS.
30. PROVIDE NECESSARY CONTROL AND AUXILIARY RELAYS FOR FAN AND/OR OTHER EQUIPMENT SHUTDOWN, DOOR RELEASE, DAMPER CONTROL, ELEVATOR CONTROL, ETC. THEY SHALL BE WIRED A MAXIMUM OF 3 FT FROM THE CONTROLLED DEVICE. THE AUXILIARY RELAY SHALL FUNCTION WITHIN THE REQUIRED VOLTAGE AND CURRENT OF THE CONTROLLED DEVICE. SLAVE OR INTERPOSING RELAYS SHALL BE INCLUDED AND POWERED BY THE FIRE ALARM CONTROL PANEL OR INDEPENDENT DEDICATED POWER SUPPLY WHERE NECESSARY, IN A FAIL-SAFE (FIRE FUNCTION) POSITION. POWER TO THE INTERPOSING RELAY SHALL BE MONITORED BY THE FIRE ALARM SYSTEM.
31. PROVIDE ADDRESSABLE CONTROL RELAYS, AND IF NECESSARY AUXILIARY RELAYS FOR ALL HVAC AND VENTILATION EQUIPMENT DESIGNATED TO BE SHUTDOWN. UPON FIRE ALARM CONTROL PANEL RESET, FANS RESTART TO BE IMPLEMENTED BY FIRE ALARM CONTROL PANEL. EACH AFFECTED FANS SHALL HAVE DEDICATED PUSH-BOTTOM CONTROL AT THE FACP AND BE RESTARTED MANUALLY.
32. FIRE ALARM SYSTEM (FACP) SHALL BE EQUIPPED WITH AN ALARM VERIFICATION FEATURE TO REDUCE UNWANTED ALARM SIGNALS FROM TRANSIENT CONDITION(S). THE ALARM VERIFICATION IS APPLICABLE ONLY TO SMOKE DETECTORS.
33. UPON THE PROJECT COMPLETION, THE INSTALLING CONTRACTOR SHALL PREPARE AS-BUILT FIRE ALARM DRAWINGS AND FURNISH THEM IN DIGITAL FORM (PDF Format) TO THE PROJECT ENGINEER AND VERIZON ALONG WITH CUT SHEETS, AS PART OF CLOSE-OUT PACKAGE. THE DRAWINGS MUST CONTAIN FLOOR PLANS AND RISER DIAGRAM WITH ALL FIRE ALARM EQUIPMENT DEVICES AND APPLIANCES INDICATED ALONG WITH THEIR DIGITAL ADDRESSES.
34. INSTALLING CONTRACTOR SHALL FULFILL ALL LOCAL TOWN AND AHJ REQUIREMENTS FOR PROPER FILING OF PROJECT APPLICATION. HE/SHE IS RESPONSIBLE TO PREPARE FILING DOCUMENTS (DRAWINGS, CUT SHEETS AND CALCULATIONS) AND FILE IT WITH LOCAL AHJ. ALL COST ASSOCIATED WITH THIS PROCESS, INCLUDING PERMIT AND FILING, IS THE CONTRACTOR RESPONSIBILITIES.

FIRE ALARM SYSTEM FILING AND INSPECTION NOTES:

1. INSTALLING CONTRACTOR IS RESPONSIBLE TO FULFILL FIRE MARSHAL REQUIREMENTS FOR PROPER FILING OF THIS PROJECT APPLICATION AND OBTAIN THE AUTHORITY HAVING JURISDICTION (AHJ) PERMIT PRIOR STARTING INSTALLATION WORK. ALL COST ASSOCIATED WITH THIS PROCESS IS THE CONTRACTOR RESPONSIBILITIES.
2. THIS CONTRACTOR SHALL PREPARE THE LOCAL AHJ COMPLAINT FILING DRAWINGS, BATTERY CALCULATIONS AND EQUIPMENT CUT SHEETS AND SUBMIT TO THE LOCAL AHJ OFFICE.
3. LOCATIONS OF ALL FIRE ALARM EQUIPMENT, DEVICES AND APPLIANCES SHALL BE SUBJECT TO THE LOCAL AHJ VERIFICATION AND APPROVAL. IF ANY CHANGES/ADDITIONS MUST BE MADE TO FILING DRAWINGS, OR IF THE FILING PACKAGE IS REJECTED BY LOCAL AHJ, THE CONTRACTOR SHALL BE RESPONSIBLE TO CORRECT THE SUBMITTAL AND RE-FILE. ALL COST ASSOCIATED WITH THIS PROCESS IS THE CONTRACTOR RESPONSIBILITIES.
4. IF ANY CHANGES ARE MADE TO FIRE ALARM SYSTEM DURING INSTALLATION PHASE, AS BUILT PLANS SHALL BE PREPARED BY THE CONTRACTOR AND RE-FILED WITH THE LOCAL AHJ PRIOR THE AHJ SYSTEM INSPECTION.
5. UPON COMPLETION OF THE FIRE ALARM SYSTEM INSTALLATION THIS CONTRACTOR SHALL SCHEDULE WITH ENGINEER OF RECORD AND PERFORM THE FIRE ALARM SYSTEM VERIFICATION PRE-TEST. THE LOCAL AHJ SYSTEM ACCEPTANCE TEST SHALL NOT BE SCHEDULED, UNTIL THE SUCCESSFUL PRE-TEST HAS BEEN COMPLETED AND WITNESSED BY ENGINEER OF RECORD.
6. AFTER SUCCESSFUL SYSTEM TESTING AND APPROVAL BY THE LOCAL AHJ, THE FIRE ALARM SYSTEM INSTALLER SHALL PROVIDE OWNER WITH (1) ONE FULL SIZE PRINT SET OF AS-BUILT DRAWINGS AS WELL AS ITS AutoCAD DRAWINGS FILES.

FIRE ALARM SYSTEM I/O MATRIX																								
SYSTEM INPUTS		SYSTEM OUTPUTS		CONTROL UNIT ANNUNCIATION				NOTIFICATION						FIRE SAFETY CONTROL										
				ACTIVATE APPROVED COMMON ALARM SIGNAL INDICATOR AND AUDIBLE ALARM TONE THROUGHOUT THE BUILDING	ACTIVATE APPROVED COMMON ALARM SIGNAL INDICATOR AND AUDIBLE ALARM TONE TEMPORAL 4" AT INDEPENDENT SOUNDER BASES	ACTIVATE APPROVED COMMON SUPERVISORY SIGNAL INDICATOR AND AUDIBLE ALARM TONE THROUGHOUT THE BUILDING	ACTIVATE APPROVED COMMON TROUBLE SIGNAL INDICATOR AND AUDIBLE ALARM TONE THROUGHOUT THE BUILDING	DISPLAY CHANGE OF STATUS	TRANSMIT "ALARM" CONDITION TO FACP AND ANY ANNUNCIATOR(S). DISPLAY SOURCE OF THE ALARM AND ACTIVATE AUDIO/VISUAL ALARM SIGNAL AT FACP AND ANNUNCIATOR(S)	TRANSMIT "SUPERVISORY" CONDITION TO FACP AND ANY ANNUNCIATOR(S). DISPLAY SOURCE OF THE SUPERVISORY AND ACTIVATE AUDIO/VISUAL ALARM SIGNAL AT FACP AND ANNUNCIATOR(S)	TRANSMIT "TROUBLE" CONDITION TO FACP AND ANY ANNUNCIATOR(S). DISPLAY SOURCE OF THE TROUBLE AND ACTIVATE AUDIO/VISUAL ALARM SIGNAL AT FACP AND ANNUNCIATOR(S)	TRANSMIT "SMOKE, HEAT OR CARBON MONOXIDE" ALARM SIGNAL TO FIRE DEPARTMENT VIA AN APPROVED CENTRAL STATION MONITORING COMPANY	TRANSMIT "MANUAL" ALARM SIGNAL TO FIRE DEPARTMENT VIA AN APPROVED CENTRAL STATION MONITORING COMPANY	TRANSMIT "SUPERVISORY" ALARM SIGNAL TO FIRE DEPARTMENT VIA AN APPROVED CENTRAL STATION MONITORING COMPANY	TRANSMIT "TROUBLE" SIGNAL TO FIRE DEPARTMENT VIA AN APPROVED CENTRAL STATION MONITORING COMPANY	RELEASE FIRE DEPARTMENT DESIGNATED ELEVATOR DOORS	PERFORM A PHASE 1 ELEVATOR RECALL, CAUSING CAR(S) TO PARK IN THE LOBBY OF MAIN FLOOR.	PERFORM A PHASE 1 ELEVATOR RECALL, CAUSING CAR(S) TO PARK IN THE ALTERNATELY PROGRAMMED FLOOR.	ONCE ELEVATOR RECALL IS COMPLETED PERFORM ELEVATOR POWER SOURCE SHUNT TRIP	ELEVATOR HAT FLASH	RELEASE ALL MAGNETICALLY HELD OPEN FIRE RATED DOOR AND/OR BUILDING SECURITY DOOR THROUGHOUT THE BUILDING	SHUTDOWN ALL CARBON MONOXIDE PRODUCING EQUIPMENT INSTALLED IN AREA OF THE BUILDING	SHUTDOWN ALL FAN SYSTEMS OVER 2000 CFM INCLUDING EXHAUST FANS AND FA DRAWING EXHAUST FANS THROUGHOUT THE BUILDING	CLOSE ALL FIRE/SMOKE AND/OR SMOKE DAMPERS THROUGHOUT THE BUILDING
1	AREA SMOKE DETECTOR	●				●	●			●					●	●			●		●	●	●	
2	AREA HEAT DETECTOR	●				●	●			●					●	●			●		●	●	●	
3	MANUAL PULL STATION	●					●				●				●	●			●		●	●	●	
4	DUCT SMOKE DETECTOR	●				●	●			●					●	●			●		●	●	●	
5	AREA CARBON MONOXIDE DETECTOR		●			●	●			●					●	●			●	●	●	●	●	
6	MAIN FLOOR ELEVATOR SMOKE DETECTOR	●				●	●			●					●	●					●	●	●	
7	ALTERNATE FLOOR ELEVATOR SMOKE DETECTOR	●				●	●			●						●					●	●	●	
8	ELEVATOR POWER MONITOR			●		●																	●	●
9	SPRINKLER SYSTEM WATER FLOW SWITCH	●				●		●				●			●	●	●		●		●	●	●	
10	SPRINKLER SYSTEM TAMPER SWITCH					●	●					●											●	●
11	SMOKE AND HEAT DETECTORS IN SPRINKLER ELEVATOR ROOM AND SHAFT	●				●	●			●					●	●	●		●		●	●	●	
12	FIRE ALARM AC POWER FAILURE				●	●			●				●	●										●
13	FIRE ALARM SYSTEM LOW BATTERY				●	●			●				●											●
14	OPEN CIRCUIT OR GROUND FAULT				●	●			●				●											●
15	NOTIFICATION APPLIANCE CIRCUIT SHORT				●	●			●				●											●

1. BUILDING IS EQUIPPED WITH EXISTING LOCAL FIRE DEPARTMENT AUTHORITY HAVING JURISDICTION INSPECTED AND APPROVED FIRE ALARM SYSTEM, WHICH OPERATES PER THE AUTHORITY APPROVED INITIATION, NOTIFICATION, AND REPORTING SEQUENCES.
2. CONTRACTOR SHALL COORDINATE WITH BUILDING FIRE ALARM SERVICE VENDOR FOR PROGRAMMING AND VERIFY THAT THE ABOVE SEQUENCE OF OPERATION DEVICES NOT CONFLICT WITH THE EXISTING MODIFIED SYSTEM.

FIRE ALARM SYSTEM I/O MATRIX

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SEAL



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PROPOSED NEW FACILITY
ELLENVILLE FIRE DISTRICT
203 S. MAIN ST. NYS ROUTE 209
ELLENVILLE, NY 12428

FIRE ALARM
GENERAL NOTES

PROJECT No. 2501
EMTEC: 7611

CHECKED BY: JE/ARS

DRAWING:

FA-0.2

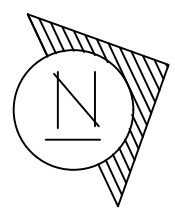
EMTEC PROJECT NO. 7611 DRAWN BY: JE CHECKED BY: ARS

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- KEY NOTES**
1. TIE FA SYSTEM IN GAS DETECTION SYSTEM FOR FAN SHUTDOWN
 2. COORDINATE WITH SPRINKLER VENDOR FOR TAMPER/FLOW LOCATIONS



FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"
MEZZ. SQUARE FOOTAGE = 13,924



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PROPOSED NEW FACILITY
ELLENVILLE FIRE DISTRICT
203 S. MAIN ST. NYS ROUTE 209
ELLENVILLE, NY 12428

**FIRE ALARM
FIRST FLOOR
PLAN**

PROJECT No. **2501**
EMTEC-7611

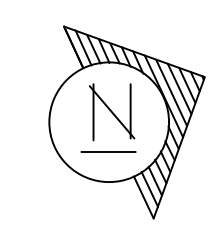
CHECKED BY: **JE/ARS**

DRAWING:

EMTEC PROJECT NO. 7611 DRAWN BY: JE CHECKED BY: ARS

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MEZZANINE FLOOR PLAN (PARTIAL)
SCALE: 1/8" = 1'-0"
MEZZ. SQUARE FOOTAGE = 1,482



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SEAL 			
SENDLEWSKI ARCHITECTS, P.C. ARCHITECTS - PLANNERS 216 PARKWAY AVENUE WESTFIELD, NY 12091 (516) 727-5352		 CONSULTING ENGINEERS, P.C. 3555 Veterans Memorial Highway, Suite 100 Rancho Santa Fe, CA 92051 (760) 390-1390	
PROPOSED NEW FACILITY ELLENVILLE FIRE DISTRICT 203 S. MAIN ST. NYS ROUTE 209 ELLENVILLE, NY 12428		FIRE ALARM MEZZANINE PLAN	
PROJECT No. 2501 EMTEC: 7611		CHECKED BY: JE/ARS	
DRAWING:		FA-1.2	

EMTEC PROJECT NO. 7611 DRAWN BY: JE CHECKED BY: ARS

A
A.I
B
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SECOND FLOOR PLAN

SCALE: 1/8" = 1'-0"
SQUARE FOOTAGE = 5643
(NOT INCL. FLAT ROOF & ATTIC AREAS)



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100%DD/50%CD REVIEW
07-20-2026 ISSUED FOR 90%CD
REVIEW
08-17-2026
ISSUED FOR GENERAL
CONSTRUCTION BID AS SINGLE
PRIME CONTRACT INCLUDING
ALL TRADES

SEAL



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PROPOSED NEW FACILITY
ELLENVILLE FIRE DISTRICT
203 S. MAIN ST. NYS ROUTE 209
ELLENVILLE, NY 12428

FIRE ALARM
SECOND FLOOR
PLAN

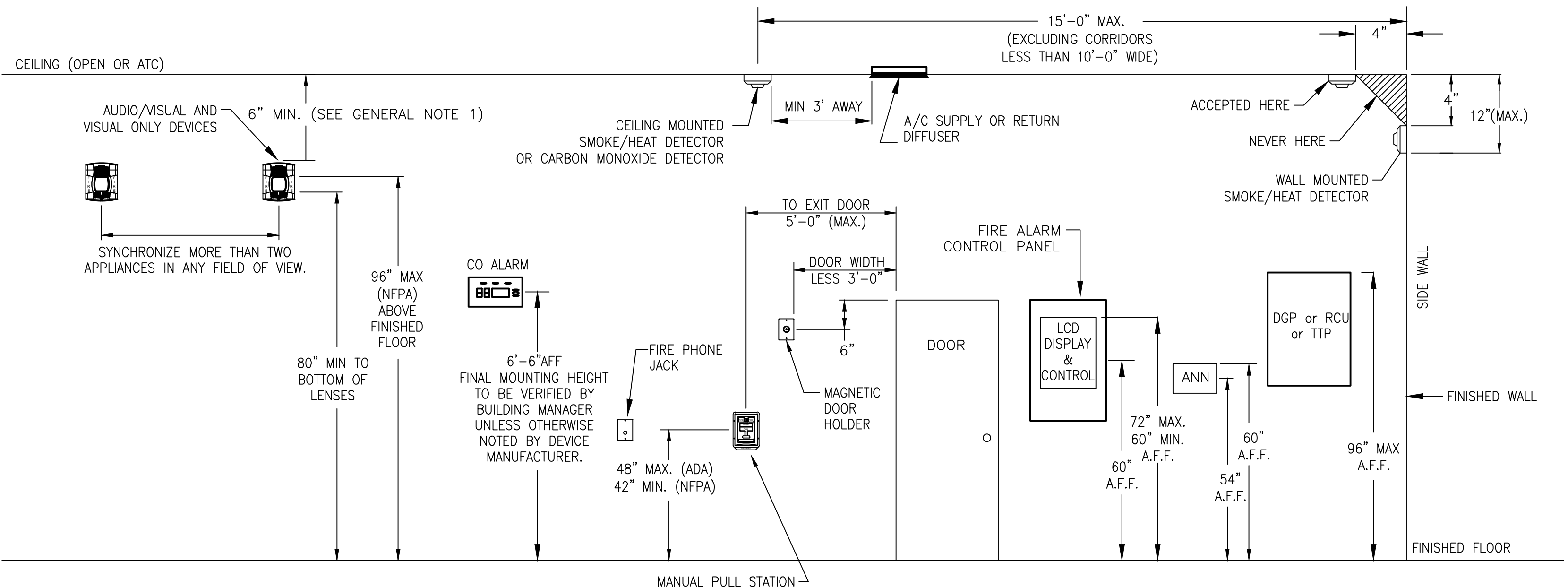
PROJECT No. 2501
EMTEC: 7611

CHECKED BY: JE/ARS

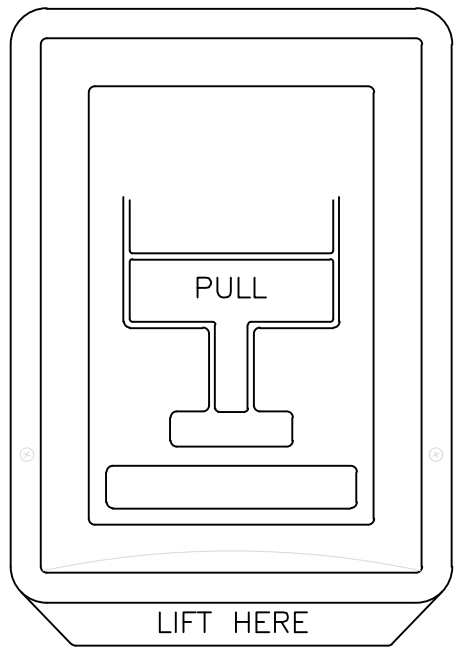
DRAWING:

FA-1.3

EMTEC PROJECT NO. 7611 DRAWN BY: JE CHECKED BY: ARS

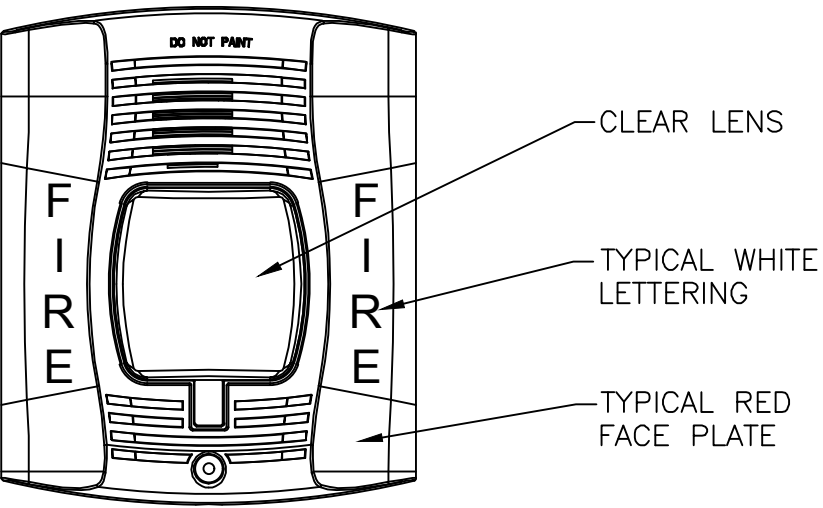


TYPICAL EQUIPMENT, DEVICES AND APPLIANCES MOUNTING HEIGHT



- NOTES:
1. REFERENCE SPECIFICATIONS FOR REQUIREMENTS, DETAILS AND SIGNAGE.

TYPICAL PULL STATION DETAIL



- NOTE:
1. STROBES AND HORN/STROBES ACTIVATE IN ALL SPACES ON BUILDING FIRE ALARM.

TYPICAL NOTIFICATION DEVICE DETAIL

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PROPOSED NEW FACILITY

ELLENVILLE FIRE DISTRICT

203 S. MAIN ST. NYS ROUTE 209

ELLENVILLE, NY 12428

PROJECT No. 2501

EMTEC-7611

CHECKED BY: JE/ARS

DRAWING:

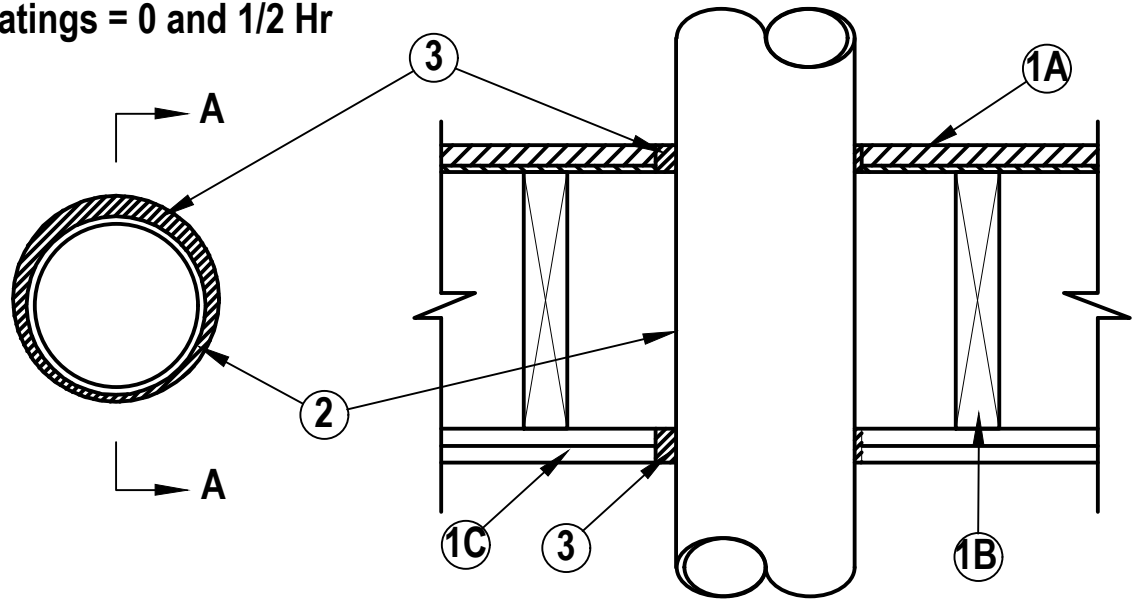
FA-5.1

EMTEC PROJECT NO. 7611 DRAWN BY: JE CHECKED BY: ARS

UL/cUL System No. F-C-1059

F Ratings = 1 and 2 Hr

T Ratings = 0 and 1/2 Hr



- Floor—Ceiling Assembly – The 1 or 2 hr fire-rated solid or trussed lumber joist floor—ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Series Floor—Ceiling Designs in the UL Fire Resistance Directory. The F Rating of the firestop system is equal to the rating of the floor—ceiling and wall assemblies. The general construction features of the floor—ceiling assembly are summarized below:
 - Flooring System – Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture as specified in the individual Floor—Ceiling Design. Max diam of opening shall be 7–5/8 in.
 - Wood Joists – Nom 10 in deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members with bridging as required and with ends firestopped.
 - Gypsum Board – Thickness, type, number of layers and fasteners shall be as specified in the individual Floor—Ceiling Design. Diam of opening shall be 1 in. larger than the outside diam of pipe (Item 2).
 - Furring Channels – (Not Shown) (As required) Resilient galvanized steel furring installed in accordance with the manner specified in the individual L500 Series Designs in the Fire Resistance Directory.
- Chase Wall – (Not Shown, Optional) – The through penetrants (Item 2) may be routed through a 1 or 2 hr fire-rated single, double or staggered wood stud/gypsum wallboard chase wall having a fire rating consistent with that of the floor—ceiling assembly. The chase wall shall be constructed of the materials and in the manner specified in the individual U300 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs – Nom 2 by 8 in. lumber or double nom 2 by 6 in. lumber studs.
 - Sole Plate – Nom 2 by 8 in. lumber or parallel 2 by 6 in. lumber plates, tightly butted.
 - Top Plate – The double top plate shall consist of two nom 2 by 8 in. lumber plates or two sets of nom 2 by 6 in. lumber plates tightly butted. Max diam of opening is 7–5/8 in.
 - Gypsum Board – Thickness, type, number of layers and fasteners shall be as specified in individual Wall and Partition Designs.
- Through Penetrants – One metallic tubing, pipe or conduit to be installed concentrically or eccentrically within the firestop system. Annular space between pipe or conduit and edge of opening to be min 1/4 in. and max 3/4 in. Pipe, tubing or conduit to be rigidly supported on both sides of floor—ceiling assembly. The following types and sizes of metallic pipes, tubing or conduit may be used:
 - Steel Pipe – Nom 6 in. diam (or smaller) Schedule 40 (or heavier) steel pipe.
 - Iron Pipe – Nom 6 in. diam (or smaller) cast or ductile pipe.
 - Conduit – Nom 4 in. diam (or smaller) steel electrical metallic tubing or nom 6 in. diam (or smaller) steel conduit.
 - Steel Flexible Metal Conduit – Nom 2 in. diam (or smaller) steel flexible metal conduit.
- Fill, Void or Cavity Material – Sealant – Min 5/8 in. or 1–1/4 in. thickness of sealant applied within annular space, flush with the bottom surface of gypsum wallboard or lower top plate for 1 and 2 hr floors respectively. Min. 3/4 in. thickness of sealant applied within annular space, flush with top surface of floor.

FIRESTOP OF METAL CONDUIT THROUGH WOOD FLOOR/CEILING RATED DETAIL

N.T.S.

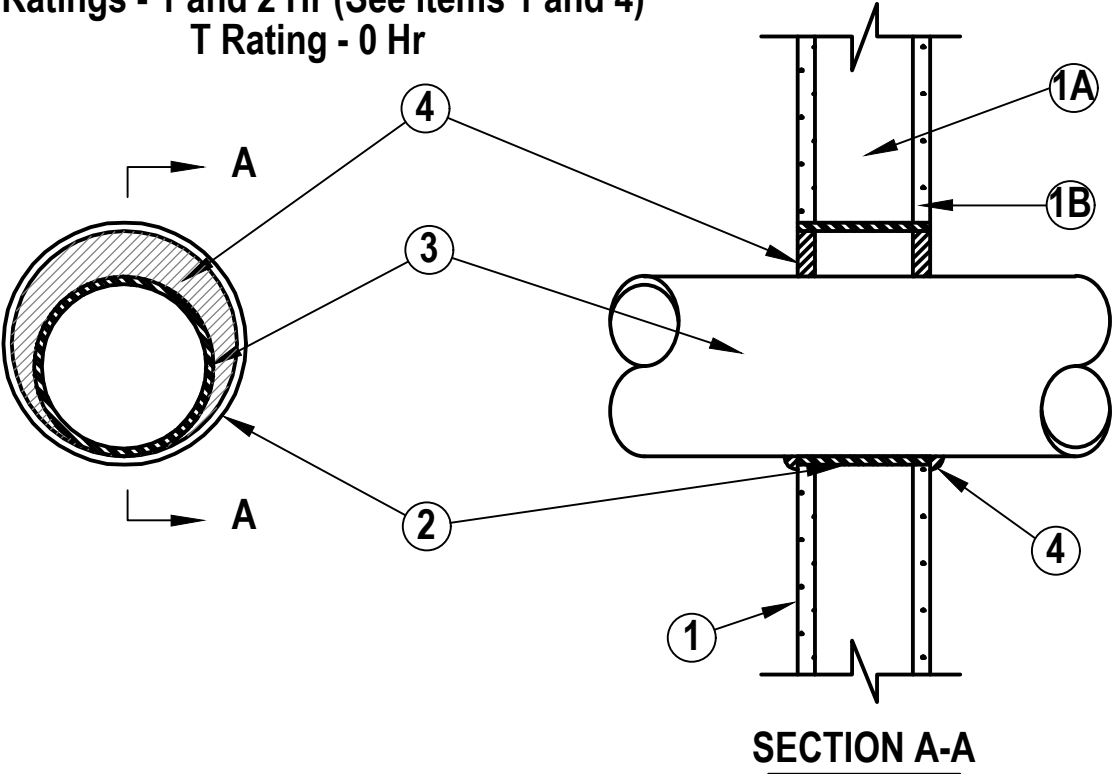
NOTES:

- All penetrations through rated walls, including but not limited to Boiler Rooms, Mechanical Equipment Rooms and Rated Shafts, shall be fire stopped per details sheets included in this drawing set. Refer to Architectural drawings for all wall ratings. Detail sheets show only a few common applications however, they do not show all applications. Contractor must use only firestop products that have been UL 1479 or ASTM E 814 tested for specific fire-rated construction conditions conforming to construction assembly type, penetrating item type, annular space requirements, and fire-rating involved for each separate instance.
- Details shown are typical details. If field conditions do not match requirements of typical details, approved alternate details shall be utilized. Field conditions and dimensions need to be verified for compliance with the details, including but not limited to the following: * Minimum and maximum Width of Joints * Type and thickness of fire-rated construction. The minimum assembly rating of the firestop assembly shall meet or exceed the highest rating of the adjacent construction.
- If alternate details matching the field conditions are not available, manufacturer's engineering judgment drawings are acceptable. Drawings shall follow the International Firestop Council (IFC) Guidelines for Evaluating Firestop Systems Engineering Judgments.
- References:
 - * 2013 Underwriter's Laboratories Fire Resistance Directory, Volumes 1 & 2
 - * NFPA 101 Life Safety Code
 - * NFPA 70 - National Electric Code
 - * All governing local and regional building codes
- Firestop System installation must meet requirements of ASTM E-814 (UL 1479) tested assemblies that provide a fire rating equal to that of construction being penetrated.
- All rated through-penetration assemblies shall be prominently labeled with the following information:
 - * ATTENTION: Fire Rated Assembly
 - * UL System # * Product(s) used
 - * Hourly Rating (F-Rating)
 - * Installation Date
- For outlet boxes requiring protection, use only Wall Opening Protective Materials, category CLIV as classified by Underwriter's Laboratories, Fire Resistance Directory (Volume 1.)

UL/cUL System No. W-L-1164

F Ratings - 1 and 2 Hr (See Items 1 and 4)

T Rating - 0 Hr



- Wall Assembly The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs –Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2–1/2 in. wide and spaced max 24 in. OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. wider and 4 to 6 in. higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. clearance is present between the penetrating item and the framing on all four sides.
 - Gypsum Board – The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening in steel stud walls is 32in.. Max diam of openings in wood stud walls is 14–1/2 in. The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
- Steel Sleeve – Nom 32 in. diam (or smaller) Schedule 40 (or heavier) steel pipe sleeve friction fit in nom 32 in. diam circular opening cut through gyp–sum wallboard layers. Length of steel sleeve to be equal to thickness of wall.
- Through—Penetrant – One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and the steel sleeve shall be min of 0 in. (point contact) to max 1–7/8 in. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
 - Steel Pipe – Nom 30 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
 - Iron Pipe – Nom 30 in. diam (or smaller) service weight (or heavier) cast iron soil pipe or Class 50 (or heavier) ductile iron pressure pipe.
 - Conduit – Nom 4 in. diam (or smaller) steel electrical metallic tubing.
 - Copper Tubing – Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.
 - Copper Pipe – Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.
- Fill, Void or Cavity Material—Sealant – Min 5/8 in. and 1–14 in. thickness of fill material applied within annulus, flush with both surfaces of wall assembly for 1 or 2 hr rated walls, respectively. Min 1/2 in. diam bead of caulk applied to the penetrant/wallboard interface at the point contact location on both sides of wall.

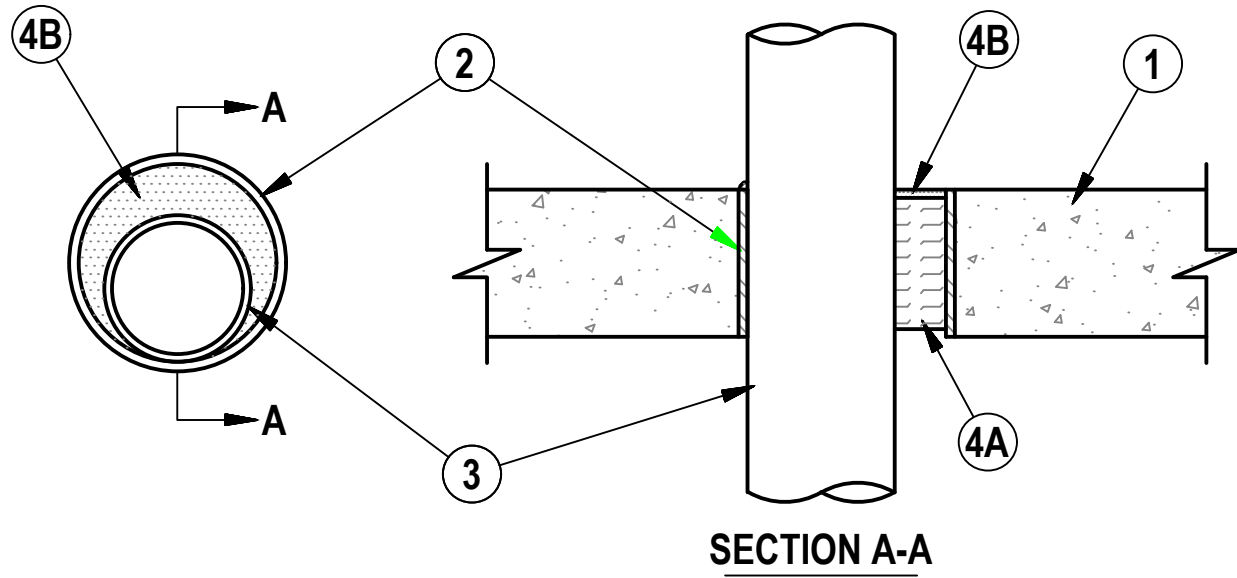
FIRESTOP OF METAL PIPING THROUGH GYPSUM RATED WOOD OR STEEL WALL DETAIL

N.T.S.

UL/cUL System No. C-AJ-1421

F Rating - 2 and 3 Hr (See Item 4B)

T Rating = 0 Hr



- Floor or Wall Assembly – Min 4–1/2 in. (114 mm) thick reinforced lightweight or normal weight (100–150 pcf or 1600–2400 kg/m³) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 6 in. (152 mm).
- Metallic Sleeve – (Optional) Nom 6 in. (152 mm) diam (or smaller) Schedule 40 (or heavier) steel sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces.
- Through—Penetrant – One metallic pipe or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe, tube or conduit and periphery of opening shall be min 0 in. (0 mm) (point contact) to max 5–3/8 in. (137 mm). Pipe or conduit to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or conduits may be used:
 - Steel Pipe – Nom 4 in. (102 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
 - Iron Pipe – Nom 4 in. (102 mm) diam (or smaller) cast or ductile iron pipe.
 - Copper Pipe – Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.
 - Copper Tubing – Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tubing.
 - Conduit – Nom 4 in. (102 mm) diam (or smaller) steel conduit.
 - Conduit – Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT).
- Firestop System – The firestop system shall consist of the following:
 - Packing Material – Min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m³) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.
 - Fill, Void or Cavity Material* – Sealant – Min 1/4 in. (6 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall. For 3 Hr rated assemblies, a min 1/4 in. (6 mm) diam bead of fill material shall be applied at the concrete/pipe interface at the point contact location on the top surface of floor and on both surfaces of wall.

FIRESTOP OF METAL PIPING THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL DETAIL

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PROPOSED NEW FACILITY

ELLENVILLE FIRE DISTRICT

203 S. MAIN ST. NYS ROUTE 209

ELLENVILLE, NY 12428

FIRE ALARM DETAILS

PROJECT No. 2501

EMTEC 7611

CHECKED BY: JE/ARS

DRAWING:

FA-5.2

EMTEC PROJECT NO. 7611 DRAWN BY: JE CHECKED BY: ARS

16610 FIRE ALARM SPECIFICATION

PART 1 - GENERAL

11 GENERAL REQUIREMENTS

- A. The general provisions of the contract including General and Special Conditions and General Requirements shall apply to all work under this Section.

12 DESCRIPTION OF WORK

- A. The work includes providing all labor, materials, equipment, accessories, services and tests necessary to complete and make ready for operation by the Owner a fire alarm system. Perform an acceptance test and make adjustments as required by the authorities having jurisdiction.

- B. Provide as shown on drawings a fire alarm system consisting of the following:

1. A fire alarm control panel with microprocessor based electronics, power supplies, amplifiers and batteries.
2. Automatic and manual initiating devices.
3. Audible and visual notification appliances.
4. Control outputs to ventilation systems.
5. Raceways, wiring and accessories as required for a complete and operable system.

- C. The Contractor shall prepare all required drawings, wiring and riser diagrams, and make necessary submissions and obtain all approvals as required by local Building Department and Fire Prevention Agency.

- D. All work shall be performed by qualified personnel, with all necessary licenses as required by the local agency having jurisdiction.

- E. The equipment shall be listed by Underwriters Laboratories.

- F. The exact location of all equipment shall be coordinated with existing equipment, HVAC ducts, etc.

- G. Under no circumstances shall the input power to the control panel (120 VAC) or auxiliary 24 VDC power from the power supply of the panel be utilized for auxiliary external control functions (e.g. fusible links, damper, etc.).

- H. All initiating and indicating circuits are polarized and supervised. Polarity must be observed and no parallel-branching (tee-tapping) will be permitted.

- I. Actuation of any new actuating device shall perform the function as performed by similar devices on this floor and other floors and as required by Code.

- J. Fan system shutdown shall perform the same functions as similar devices on this floor and other floors and as required by Local Code.

PART 2 - PRODUCTS

21 BASE BID MANUFACTURERS

- A. GE-Edwards Systems Technology (GE-EST)
B. Notifier
C. Siemens

22 GENERAL

- A. Any equipment proposed as equal to that herein specified must be proven by the Contractor. Submit to the Engineer the manufacturer's name, model numbers of substitute equipment and materials, engineering data sheets, and a list of ten (10) installations of similar equipment which have been satisfactorily installed and in continuous operation on a user's premises over a period of three (3) years. See section 16000 for additional substitution request requirements.
- B. The catalog numbers used below are those of GE-Edwards Systems Technology (GE-EST) as provided by Electrical Technology Inc., 35 Doyle Court, E. Northport, NY, 631-499-0300, and constitute the type and quality of equipment to be furnished.
- C. The Fire Alarm Control Panel shall have the capability to be expanded for future additions/alterations.

23 FIRE ALARM CONTROL PANEL (MAIN)

- A. The fire alarm control panels shall be Edwards Systems Technology (GE-EST) Type ID500 series as supplied by Electrical Technology Inc., and shall incorporate all control electronics, relays, and necessary modules and components in a surface or recessed mounted cabinet as indicated on the drawings. The operating controls
- B. All equipment and components shall be the manufacturer's current model. The materials, appliances, equipment and devices shall be tested and listed by a nationally recognized approval agency for use as part of a protected premises protective signaling (fire alarm) system. The authorized representative of the manufacturer of the major equipment, such as control panels, shall be responsible for the satisfactory installation of the complete system.
- C. The contractor shall provide, from the acceptable manufacturer's current product lines, equipment and components, which comply, with the requirements of these specifications. Equipment or components, which do not provide the performance and features, required by these specifications are not acceptable, regardless of manufacturer.
- D. The control panel shall be a multi-processor-based system designed specifically for fire and releasing system applications. The control panel shall be listed and approved for the application standard(s) as listed under the General section.
- E. The control panel shall include all required hardware, software and system programming to provide a complete and operational system. The control panel shall assure that life safety takes precedence among all panel activities.
- F. The control panel shall include the following capabilities:

1. Support up to 250 analog/addressable points
 2. Support up to 8 fully supervised remote annunciators.
 3. Support digital dialer with multiple communication protocols
 4. Support up to 1000 chronological events.
- G. The control panel shall include the following features:

1. Ability to download or upload site applications from a computer through a single point of connection to the system.
2. Provide electronic addressing of analog/addressable devices.
3. Provide an operator interface display that shall include functions required to annunciate, command and control system functions.
4. Provide an internal audible signal with different programmable patterns to distinguish between alarm, supervisory, trouble and normal conditions.
5. Provide a discreet system control switch provided for reset, alarm silence, panel silence, drill switch, up/down/right/left switches, status switch and help switch.
6. Provide system reports that provide detailed description of the status of system parameters for corrective action or for preventative maintenance programs. Reports shall be displayed by the operator interface or capable of being printed on a printer.
7. Provide an authorized operator with the ability to operate or modify system functions like system time, date, passwords, holiday dates, restart the system and clear control panel event history file.
8. Provide an authorized operator to perform test functions within the installed system.

- H. Supervision of system components, wiring, initiating devices and software shall be provided by the control panel. Failure or fault of system component or wiring shall be indicated by type and location on the LCD display. Software and processor operation shall be independently monitored for failure. The system shall provide fail-safe operation, with a backup level of system operation.

I. Annunciation

1. The system shall be designed and equipped to receive, monitor, and annunciate signals from devices and circuits installed throughout the building. Standard LED annunciators may be combined in common enclosures provided that the groups of LEDs comprising each of the required annunciators are separated from one another (Fire, Supervisory, Trouble and Status) and clearly labeled.
2. Manufacturer's standard control switches shall be acceptable if they provide the required operation, including performance, supervision and position indication. If the manufacturers' standard switches do not comply with these requirements, fabrication of custom manual controls acceptable to the owner is required.
3. Receipt of alarm, trouble, and supervisory signals shall activate integral audible devices at the control panel(s) and at each remote annunciation device. The integral audible devices shall produce a sound output upon activation of not less than 70 dBA at 10 feet.

J. Power Supply

1. Each system power supply shall be a minimum of 6 amps @ 24 vdc.
2. Upon failure of normal (AC) power, the affected portion(s) of the system shall automatically switch over to secondary power without losing any alarm, trouble or operator acknowledgment signals.
3. Each system power supply shall be annunciated individually and shall annunciate as a trouble signal, identifying the inoperable power supply.
4. All standby batteries shall be continuously monitored by the system. Low battery and disconnection of battery power supply conditions shall immediately annunciate as a trouble signal, identifying the deficient batteries.
5. All system power supplies shall be capable of recharging their associated batteries, from a fully discharged condition to a capacity sufficient to allow the system to perform consistent with the requirements of this section, in 48 hours maximum.
6. The AC power circuit shall be installed in conduit raceway. The power circuit disconnect means shall be clearly labeled FIRE ALARM CIRCUIT CONTROL and shall have a red marking. The location of the circuit disconnect shall be labeled permanently inside the each control panel.

24 REMOTE LCD ANNUNCIATOR

- A. Provide a remote lcd annunciator, with the same 'look and feel' as the facu operator interface. The remote lcd annunciator shall use the same primary acknowledge, silence, and reset keys; status leds and lcd display as the facu.
- B. Annunciator shall have super-twist lcd display with two lines of 40 characters each. annunciator shall be provided with four (4) programmable control switches and associated leds.

- C. Under normal conditions the lcd shall display a 'system is normal' message and the current time and date.

- D. Should an abnormal condition be detected the appropriate led (alarm, supervisory or trouble) shall flash. The unit audible signal shall pulse for ALARM CONDITIONS AND SOUND STEADY FOR TROUBLE AND SUPERVISORY CONDITIONS.

E. THE LCD SHALL DISPLAY THE FOLLOWING INFORMATION RELATIVE TO THE ABNORMAL CONDITION OF A POINT IN THE SYSTEM:

1. 40 CHARACTER CUSTOM LOCATION LABEL.
2. TYPE OF DEVICE (E.G., SMOKE, PULL STATION, WATERFLOW).
3. POINT STATUS (E.G., ALARM, TROUBLE).

- F. OPERATOR KEYS SHALL BE KEY SWITCH ENABLED TO PREVENT UNAUTHORIZED USE. THE KEY SHALL ONLY BE REMOVABLE IN THE DISABLED POSITION. ACKNOWLEDGE, SILENCE AND RESET OPERATION SHALL BE THE SAME AS THE FACU.

25 SMOKE CONTROL SYSTEM

- A. Smoke control system provide a smoke control system which is ul 864 (ulul product category) listed for smoke control system service. the system shall provide automatic operation of smoke exhaust fans, makeup air fans, air handling units, and dampers in accordance with the smoke control sequence indicated on the drawings. the smoke control system shall be located in the fire command center.

- B. Provide and install smoke control relays within 3 feet of each smoke exhaust fan controller; makeup air fan controller; air handling units controller, and damper controlled by the smoke control system. the building automation/temperature control system contractor shall terminate the relays to the fan controllers, air handling unit controllers, and dampers.

- C. Provide and install addressable modules to monitor status/operation of each smoke exhaust fan, makeup air fan, air handling unit, and damper controlled by the smoke control system. the fire alarm contractor shall terminate the modules to status indicators.

- D. Enclosure: finish to match fire alarm control units. the locking cover/display assembly is hinged on the left. key and lock shall be common to all secured fire alarm system enclosures.

2.6 SMOKE CONTROL SYSTEM GRAPHIC ANNUNCIATOR - LED TYPE

- A. Annunciator unit (zoned system) provide an led-indicating light located on the graphic annunciator to indicate the status for all smoke control equipment. In addition, in systems with two or more smoke control system graphic annunciators, each annunciator shall be programmable to allow multiple annunciators to have equal operation priority or to allow hierarchal priority control to be assigned to individual annunciators (locations).

- B. Fans, Dampers, and other operating equipment in normal status shall be indicated by a green led. Fans, dampers, and other operating equipment in off or closed status shall be indicated by a red led. Fans, dampers, and other operating equipment in fault status shall be indicated by a yellow led. the annunciator shall graphically depict the building arrangement and smoke control system zones. fans, major ducts, dampers, and airflow direction shall be indicated.

- C. Provide haa switches labeled 'on-auto-off' on the annunciator to permit fire-fighters manual control of each individual smoke control fan or air handling unit. haa switches labeled 'open-auto-close' shall be provided on the annunciator for each individual smoke control damper.

- D. Provide a toggle or push-button switch to test the leds mounted on the unit. the test switch does not require key operation.

- E. Provide a haa switch labeled 'open-auto-lock' on the annunciator for each stairway to permit fire-fighters manual control of stairway door locks in accordance with local codes.

- F. In the normal switch position, the fans, air handling units, or dampers operate automatically as controlled by the building automation/temperature control system. automatic controls can be overridden with the haa switches provided on the graphic annunciator. the operation of the haa switches shall permit manual control and override of any conflicting signal from the building automation/temperature control system or any other system.

- G. Enclosure: finish to match fire alarm control units. the locking cover/display assembly is hinged on the left. key and lock shall be common to all secured fire alarm system enclosures.

27 SIGNATURE SERIES INTELLIGENT ADDRESSABLE ANALOG DEVICES

A. ALL DEVICES - GENERAL

1. Each remote device shall have a microprocessor with non-volatile memory to support its functionality and serviceability. Each device shall store as required for its functionality the following data device serial number, device address, device type, personality code, date of manufacture, hours in use, number of alarms and troubles, time and date of last alarm, amount of environmental compensation left/used, last maintenance date, job/project number, current detector sensitivity values, diagnostic information (trouble codes) and algorithms required to process sensor data and perform communications with the loop controller.
2. Each device shall be capable of electronic addressing, either automatically or application programmed assigned, to support physical/electrical mapping and supervision by location. Setting a device's address by physical means shall not be necessary.

B. INTELLIGENT DETECTORS - GENERAL

1. The System Intelligent Detectors shall be capable of full digital communications using both broadcast and polling protocol. Each detector shall be capable of performing independent fire detection algorithms. The fire detection algorithm shall measure sensor signal dimensions, the patterns and combine different fire parameters to increase reliability and distinguish real fire conditions from unwanted deceptive nuisance alarms. Signal patterns that are not typical of fires shall be eliminated by digital filters. Devices not capable of combining different fire parameters or employing digital filters shall not be acceptable.
2. Each detector shall have an integral microprocessor capable of making alarm decisions based on fire parameter information stored in the detector head. Distributed intelligence shall improve response time by decreasing the data flow between detector and analog loop controller. Detectors not capable of making independent alarm decisions shall not be acceptable. Maximum total analog loop response time for detectors changing state shall be 0.5 seconds.
3. Each detector shall have a separate means of displaying communication and alarm status. A green LED shall flash to confirm communication with the analog loop controller. A red LED shall flash to display alarm status.
4. The detector shall be capable of identifying up to 32 diagnostic codes. This information shall be available for system maintenance. The diagnostic code shall be stored at the detector.
5. Each smoke detector shall be capable of transmitting pre-alarm and alarm signals in addition to the normal, trouble and need clearing information. It shall be possible to program control panel activity to each level. Each smoke detector may be individually programmed to operate at any one of five (5) sensitivity settings.
6. Each detector microprocessor shall contain an environmental compensation algorithm which identifies and sets ambient Environmental Thresholds approximately six times an hour. The microprocessor shall continually monitor the environmental impact of temperature, humidity, other contaminants as well as detector aging. The process shall employ digital compensation to adapt the detector to both 24 hour long term and 4 hour short term environmental changes. The microprocessor shall monitor the environmental compensation value and alert the system operator when the detector approaches 80% and 100% of the allowable environmental compensation value. Differential sensing algorithms shall maintain a constant differential between selected detector sensitivity and the learned base line sensitivity. The base line sensitivity information shall be updated and permanently stored at the detector approximately once every hour.

C. INTELLIGENT DETECTORS

1. Fixed Temperature/Rate of Rise Heat Detector, GE-SIGA-HRS.
 - a. Provide intelligent combination fixed temperature/rate-of-rise heat detectors GE-SIGA-HRS. The heat detector shall have a low mass thermistor heat sensor and operate at a fixed temperature and at a temperature rate-of-rise. It shall continually monitor the temperature of the air in its surroundings to minimize thermal lag to the time required to process an alarm. The integral microprocessor shall determine if an alarm condition exists and initiate an alarm based on the analysis of the data. Systems using central intelligence for alarm decisions shall not be acceptable. The intelligent heat detector shall have a nominal fixed temperature alarm point rating of 135oF (57oC) and a rate-of-rise alarm point of 150oF (9oC) per minute unless otherwise shown on design drawings. The heat detector shall be rated for ceiling installation at a minimum of 70 ft

- (21.3m) centers and be suitable for wall mount applications.

- a. Photoelectric Smoke Detector, GE-SIGA-PS.
 2. Provide intelligent photoelectric smoke detectors GE-SIGA-PS. The analog photoelectric detector shall utilize a light scattering type photoelectric smoke sensor to sense changes in air samples from its surroundings. The integral microprocessor shall dynamically examine values from the sensor and initiate an alarm based on the analysis of data. Systems using central intelligence for alarm decisions shall not be acceptable. The detector shall continually monitor any changes in sensitivity due to the environmental affects of dirt, smoke, temperature, aging and humidity. The information shall be stored in the integral processor and transferred to the analog loop controller for retrieval using a laptop PC. The photo detector shall be rated for ceiling installation at a minimum of 30 ft (9.1m) centers and be suitable for wall mount applications. The photoelectric smoke detector shall be suitable for direct insertion into air ducts up to 3 ft (0.91m) high and 3 ft (0.91m) wide with air velocities up to 5,000 Ft/min (0-25.39 m/sec) without requiring specific duct detector housings or supply tubes.

- a. The percent smoke obscuration per foot alarm set point shall be field selectable to any of five sensitivity settings ranging from 1.0% to 3.5%. The photo detector shall be suitable for operation in the following environment:
 - Temperature: 32F to 120F (0C to 49C)
 - Humidity: 0-93% RH, non-condensing
 - Elevation: no limit

3. Standard Detector Mounting Bases, GE-SIGA-SB. Provide standard detector mounting bases GE-SIGA-SB suitable for mounting on North American 1-gang, 3" or 4" octagon box and 4 square box. The base shall contain no electronics, support all Signature Series detector types and have the following minimum requirements:

- a. Removal of the respective detector shall not affect communications with other detectors.
- b. Terminal connections shall be made on the room side of the base. Bases which must be removed to gain access to the terminals shall not be acceptable.
- c. The base shall be capable of supporting one (1) Signature Series GE-SIGA-LED Remote Alarm LED Indicator. Provide remote LED alarm indicators where shown on the plans.

4. Relay Detector Mounting Bases, GE-SIGA-RB. Provide relay detector mounting bases GE-SIGA-RB suitable for mounting on North American 1-gang, 3 or 4 octagon box and 4 square box. The relay base shall support all Signature Series detector types and have the following minimum requirements:

- a. The relay shall be a bi-stable type and selectable for normally open or normally closed operation.
- b. The position of the contact shall be supervised.
- c. The relay operation shall be exercised by the detector processor upon power up.
- d. The relay shall automatically de-energize when a detector is removed.

- e. The operation of the relay base shall be controlled by its respective detector processor. Detectors operating standalone mode shall operate the relay upon changing to alarm state. Relay bases not controlled by the detector microprocessor shall not be acceptable.

- F. Form C Relay contacts shall have a minimum rating of 2 amp @ 30 Vac and be listed for pilot duty.
- g. Removal of the respective detector shall not affect communications with other detectors.
- h. Terminal connections shall be made on the room side of the base. Bases which must be removed to gain access to the terminals shall not be acceptable.

5. Intelligent Duct Smoke Detector Housing, GE-SIGA-SD. Provide smoke duct detector GE-SIGA-SD, along with a standard, relay or isolator detector mounting base. Provide for variations in duct air velocity between 300 and 4000 feet per minute (300 to 1000 Feet per minute for ion-photo-heat detector). Protect the measuring chamber from damage and insects. Provide an air exhaust tube and an air sampling inlet tube which extends into the duct air stream up to ten feet. Provide drilling templates and gaskets to facilitate locating and mounting the housing. Provide five one gang knockouts for mounting optional Signature Series modules. Finish the housing in baked red enamel. Provide remote alarm LEDs GE-SIGA-SD-LED and Remote Test Stations GE-SIGA-SD-TRM as shown on the plans.

D. INTELLIGENT MODULES -

1. GENERAL

- a. It shall be possible to address each Intelligent Signature Series module without the use of DIP or rotary switches. Devices using DIP switches for addressing shall not be acceptable. The personality of multifunction modules shall be programmable at site to suit conditions and may be changed at any time using a personality code downloaded from the Analog Loop Controller. Modules requiring EPROM, PROM, ROM changes or DIP switch and/or jumper changes shall not be acceptable. The modules shall have a minimum of 2 diagnostic LEDs mounted behind a finished cover plate. A green LED shall flash to confirm communication with the loop controller. A red LED shall flash to display alarm status. The module shall be capable of storing up to 24 diagnostic codes which can be retrieved for troubleshooting assistance. Input and output circuit wiring shall be supervised for open and ground faults. The module shall be suitable for operation in the following environment:

- b. Temperature: 32oF to 120oF (0oC to 49oC)
- c. Humidity: 0-93% RH, non-condensing

2. SINGLE INPUT MODULE, GE-SIGA-CT1

- a. Provide intelligent single input modules GE-SIGA-CT1. The Single Input Module shall provide one (1) supervised Class B input circuit capable of a minimum of 4 personalities, each with a distinct operation. The module shall be suitable for mounting on North American 2 (64mm) deep 1-gang boxes and 1 (38mm) deep 4 square boxes with 1-gang covers. The single input module shall support the following circuit types:

- Normally-Open Alarm Latching (Manual Stations, Heat Detectors, etc.)
- Normally-Open Alarm Delayed Latching (WaterFlow Switches)
- Normally-Open Active Non-Latching (Monitor, Fans, Dampers, Doors, etc.)
- Normally-Open Active Latching (Supervisory, Tamper Switches)

3. DUAL INPUT MODULE, GE-SIGA-CT2

- a. Provide intelligent dual input modules GE-SIGA-CT2. The Dual Input Module shall provide two (2) supervised Class B input circuits each capable of a minimum of 4 personalities, each with a distinct operation. The module shall be suitable for mounting on North American 2 (64mm) deep 1-gang boxes and 1 (38mm) deep 4 square boxes with 1-gang covers. The dual input module shall support the following circuit types:

18 FIRE ALARM SYSTEM SEQUENCE OF OPERATION

- A. The system shall identify any off normal condition and log each condition into the system database as an event.

1. The system shall automatically display on the control panel Liquid Crystal Display the first event of the highest priority by type. The priorities and types shall be alarm, supervisory, trouble, and monitor.
2. The system shall have a Queue operation, and shall not require event acknowledgment by the system operator. The system shall have a labeled color coded indicator for each type of event: alarm - red, supervisory - yellow, trouble - yellow, monitor - green. When an unseen event exists for a given type, the indicator shall flash. When all events of a given type have been displayed, the indicator shall change from flashing to steady.
3. For each event, the display shall include the current time, the total number of events, the type of event, the time the event occurred and up to a 40 character custom user description.
4. The user shall be able to review each event by simply selecting scrolling keys (up-down) for each event type.
5. New alarm, supervisory, or trouble events shall sound a silenceable audible signal at the control panel.

- B. Operation of any alarm initiating device shall automatically:

1. Update the control/display as described above (A.1.)
2. Sound all alarm signals throughout the building at the evacuation rate.
3. Turn on all strobe lights throughout the building.
4. Turn on a red alarm LED at the fire alarm control panel.
5. Operate the alarm relay contacts to initiate the transmission of an alarm to a central station agency via leased telephone lines.
6. Operate control relay contacts to shutdown all HVAC units.

DATE ISSUED

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SEAL



SENDLEWSKI ARCHITECTS, P.C.

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PROPOSED NEW FACILITY

ELLENVILLE FIRE DISTRICT

203 S. MAIN ST. NYS ROUTE 209

ELLENVILLE, NY 12428

FIRE ALARM SPECIFICATIONS

PROJECT No. 2501

EMTEC 7611

CHECKED BY: JE/ARS

DRAWING:

FA=7.1

"It is a violation of the State Education Law for any person, unless he or she is acting under the direction of a licensed professional engineer to alter on an item in anyway, on this drawing and/or in this specification in anyway. If any such item is altered, the altering engineer shall affix to the item his or her seal and the notation "altered by" followed by his or her signature and the date of such alteration, and a specific description of the alteration." This plan is approved only for the work indicated on the application specification sheet, all other matters are not to be relied upon, or to be considered as either being approved or in accordance with applicable codes.

EMTEC PROJECT NO. 7611 DRAWN BY: JE CHECKED BY: ARS

- c. Humidity: 0-93% RH, non-condensing
2. SINGLE INPUT MODULE, GE-SIGA-CT1
- a. Provide intelligent single input modules GE-SIGA-CT1. The Single Input Module shall provide one (1) supervised Class B input circuit capable of a minimum of 4 personalities, each with a distinct operation. The module shall be suitable for mounting on North American 2 (64mm) deep 1-gang boxes and 1 (38mm) deep 4 square boxes with 1-gang covers. The single input module shall support the following circuit types:
- Normally-Open Alarm Latching (Manual Stations, Heat Detectors, etc.)
 - Normally-Open Alarm Delayed Latching (Waterflow Switches)
 - Normally-Open Active Non-Latching (Monitor, Fans, Dampers, Doors, etc.)
 - Normally-Open Active Latching (Supervisory, Tamper Switches)
3. DUAL INPUT MODULE, GE-SIGA-CT2
- a. Provide intelligent dual input modules GE-SIGA-CT2. The Dual Input Module shall provide two (2) supervised Class B input circuits each capable of a minimum of 4 personalities, each with a distinct operation. The module shall be suitable for mounting on North American 2 (64mm) deep 1-gang boxes and 1 (38mm) deep 4 square boxes with 1-gang covers. The dual input module shall support the following circuit types:
- Normally-Open Alarm Latching (Manual Stations, Heat Detectors, etc.)
 - Normally-Open Alarm Delayed Latching (Waterflow Switches)
 - Normally-Open Active Non-Latching (Monitor, Fans, Dampers, Doors, etc.)
 - Normally-Open Active Latching (Supervisory, Tamper Switches)
4. MONITOR MODULE, GE-SIGA-WTM & SIGA-MM1
- a. Provide intelligent monitor modules SIGE-WTM & SIGA-MM1. The Monitor Module shall be factory set to support one (1) supervised Class B Normally-Open Active Non-Latching Monitor circuit. The monitor module shall be suitable for mounting on North American 2 (64mm) deep 1-gang boxes and 1 (38mm) deep 4 square boxes with 1-gang covers.
- b. Provide intelligent control relay modules GE-SIGA-CR. The Control Relay Module shall provide one Form C dry relay contact rated at 2 amps @ 24 Vac to control external appliances or equipment shutdown. The control relay shall be rated for pilot duty and releasing systems. The position of the relay contact shall be confirmed by the system firmware. The control relay module shall be suitable for mounting on North American 2 (64mm) deep 1-gang boxes and 1 (38mm) deep 4 square boxes with 1-gang covers.
- E. INTELLIGENT MANUAL PULL STATIONS -
1. GENERAL
- a. It shall be possible to address each Signature Series Fire alarm pull station without the use of DIP or rotary switches. Devices using DIP switches for addressing shall not be acceptable. The manual stations shall have a minimum of 2 diagnostic LEDs mounted on their integral, factory assembled single or two stage input module. A green LED shall flash to confirm communication with the loop controller. A red LED shall flash to display alarm status. The station shall be capable of storing up to 24 diagnostic codes which can be retrieved for troubleshooting assistance. Input circuit wiring shall be supervised for open and ground faults. The Fire alarm pull station shall be suitable for operation in the following environment:
- Temperature: 32oF to 120oF (0oC to 49oC)
 - Humidity: 0-93% RH, non-condensing
2. DOUBLE ACTION MANUAL PULL STATION, SIGA-278
- a. Provide intelligent double action, single stage Fire alarm stations SIGA-278. The fire alarm station shall be of lexan construction with an internal toggle switch. Provide a key locked test feature. Finish the station in red with white lettering. The manual station shall be suitable for mounting on North American 2 (64mm) deep 1-gang boxes and 1 (38mm) deep 4 square boxes with 1-gang covers.
3. PROTECTIVE COVERS, MINI STOPPER II - STI 6540
- a. Provide protective covers without horn - with horn housing SHELL at all manual pull stations in public spaces.
- F. NOTIFICATION APPLIANCES
1. General
- a. All appliances shall be UL Listed for Fire Protective Service.
- b. All strobe appliances or combination appliances with strobes shall be capable of providing the Equivalent Facilitation which is allowed under the Americans with Disabilities Act Accessibility Guidelines (ADAAG), and shall be UL 1971, and ULC S526 Listed.
- c. All appliances shall be of the same manufacturer as the Fire Alarm Control Panel specified to insure absolute compatibility between the appliances and the control panels, and to insure that the application of the appliances are done in accordance with the single manufacturer's instructions.
- d. Any appliances which do not meet the above requirements, and are submitted for use must show written proof of their compatibility for the purposes intended. Such proof shall be in the form of documentation from all manufacturers which clearly states that their equipment (as submitted) are 100% compatible with each other for the purposes intended.
2. Self-Synchronized Strobes
- a. 1-Gang Strobes, Genesis Series. Provide strobes manufactured by GE-EST, Cat No. GIRF-VM (White face plates may be used based upon approval of local jurisdiction only)
3. Horns
- a. 1-Gang Horns, Genesis Series. Provided horns manufactured by GE-EST, Cat. No. GIRF-HD Series. (White face plates may be used based upon approval of local jurisdiction only)
4. Horn/Strobes
- a. 1-Gang Horn/Strobes, Genesis Series. Provided horns/strobes manufactured by GE-EST, Cat. No. GIRF-HDVM (White face plates may be used based upon approval of local jurisdiction only)
5. Remote LED Alarm Lamps
- a. SIGA-LED Remote lamp indicator light.
- G. ANCILLARY DEVICES
1. Remote Relays
- a. Multi Voltage Control Relays, MR-100 Series
- (1). Provide remote control relays connected to supervised ancillary circuits for control of fans, dampers, door releases, etc. Relay contact ratings shall be SPDT and rated for 10 amperes at 115 Vac. A single relay may be energized from a voltage source of 24 Vac, 24 Vac, 115 Vac, or 230 Vac. A red LED shall indicate the relay is energized. A metal enclosure shall be provided.

- 2.8 FIRE ALARM CABLE
- A. Initiating circuits shall be 2 conductor #16 type FPL or FPLP cable as required. Where installed in conduit, THHN conductors may be substituted for fire alarm cable.
- B. Notification circuits shall be 2 conductor #14 type FPL or FPLP cable as required minimum size #14 AWG. Where installed in conduit, THHN conductors may be substituted for fire alarm cable.

PART 3 - EXECUTION

3.1 WIRING

- A. Label wiring at all termination points.
- B. Contractor shall clearly re-label all Fire Alarm Control Panels with new zones with typed labels.
- C. In general, it is the intent of this specification that all fire alarm wiring be run concealed within walls and/or above ceilings, wherever possible and shall be UL approved "Power Limited Fire Protective" plenum rated cable.
- D. Exposed cable shall be run in such a manner as to prevent damage or wherever cable is exposed to damage, it shall be run in EMT or IMC conduits. All exposed cable below 10feet shall be run in conduit.
- E. Minimum size conduit for fire and smoke detection wiring shall be 3/4".
- F. All conduits must enter the sides of panel(s). Connections to top of panel are not permitted.
- G. Splices are prohibited.

3.2 DETECTOR INSTALLATION

- A. Smoke detectors shall not be installed until after the construction clean up of all trades is final.
- B. Contractor shall arrange for the zone contractor to clean all existing smoke detector heads in area of

- work identified on contract documents.
- C. Any smoke detectors installed prior to the final construction clean up shall be cleaned or replaced with new detectors.
- D. No automatic detector shall be mounted within the air flow of a supply air register. A minimum of 36" shall be provided between detector location and air register.
- 3.3 LOCATION OF EQUIPMENT
- A. Instruments shall be located as shown on the drawings. In general:
- B. Smoke/Heat Detectors - Ceiling Mounted.
- C. Strobe/Horns - Wall mounted 80" AFF or 6" below ceiling, whichever is lower.
- D. Pull Stations -Wall mounted 4' - 0" AFF

3.4 ACCEPTANCE TEST

- A. Prior to scheduling acceptance test, check system and perform preliminary testing to verify that the system operates correctly and is ready for an acceptance test.
- B. A factory trained technician shall supervise the final connections. He shall test and adjust all equipment upon completion of the installation. Each detector, station, and signal shall be tested by the Contractor in the presence of the Architect/Design Professional.
- C. Contractor shall engage the services of the Owner's zone contractor to perform final check out of Fire Alarm system and connections to Fire Alarm panel.
- D. Perform an acceptance test in the presence of the Owner and/or his representative and the local fire prevention agencies. All tests, as required by the Architect/Design Professional or local fire prevention agencies, shall be performed by the Contractor.
- E. Tests shall be repeated as required with no additional cost to the Owner.
- F. Test all functions of the system in accordance with the inspection, testing and maintenance requirements of the National Fire Alarm Code. Record each device and function tested.
- G. Whenever shutdown of the Fire Alarm system is required to perform construction work, contractor shall arrange for such shutdown to be performed by the Owner's zone contractor.
- H. Tests shall include but not be limited to:
1. Set and record sensitivity of detectors in installed locations.
 2. Activate each detector and verify operation of all control panel functions.
 3. Test and verify all automatic functions (i.e., fan shutdown).
 4. Verify all control panel functions, including alarm and trouble conditions.
- I. Final "As-Built" schematics shall be provided by the Contractor upon satisfactory completion of all testing and acceptance of same.
- J. Contractor shall instruct the Owner's representatives in complete operation, adjustment, and maintenance of the system. Prior to acceptance by the Owner, the Contractor shall provide four (4) copies of operating and maintenance manuals for the system installed.
- K. Upon completion of all work, contractor shall prepare a new fire zone map for each floor affected by renovation in accordance with owner's Standards and shall mount within a frame adjacent to FACP.

- 3.5 GUARANTEE
- A. A statement of acceptance and approval shall be provided to the office of the Architect/Design Professional.
- B. The Contractor shall guarantee all wiring and equipment to be free from inherent mechanical and electrical defects for a period of one (1) year from the date of acceptance.
- C. The manufacturer's representative shall guarantee all equipment to be free from inherent mechanical and electrical defects for a period of one (1) year from date of acceptance.
- D. The Contractor shall arrange to have the manufacturer's representative make available to the Owner a local service department which shall stock standard parts on the premises. Warranty service is to be provided during normal working hours, at no cost to the Owner, for a period of twelve (12) months from the date of acceptance of the installation.

END OF SECTION 16610

DATE	ISSUED
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07-20-2026	ISSUED FOR 90%CD REVIEW
08-17-2026	ISSUED FOR GENERAL CONSTRUCTION BID AS SINGLE PRIME CONTRACT INCLUDING ALL TRADES



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PROPOSED NEW FACILITY ELLENVILLE FIRE DISTRICT 203 S. MAIN ST. NYS ROUTE 209 ELLENVILLE, NY 12428	FIRE ALARM SPECIFICATIONS
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PROJECT No. 2501 EMTEC-7611

CHECKED BY: JE/ARS

DRAWING: FA-7.2

"It is a violation of the State Education Law for any person, unless he or she is acting under the direction of a licensed professional engineer to alter an item in anyway, on this drawing and/or in this specification in anyway. If any such item is altered, the altering engineer shall affix to the item his or her seal and the notation "altered by" followed by his or her signature and the date of such alteration, and a specific description of the alteration."

This plan is approved only for the work indicated on the application specification sheet, all other matters are not to be relied upon, or to be considered as either being approved or in accordance with applicable codes.

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